

8m

REVIEW BY FORT BEND COUNTY COMMISSIONERS COURT

On this 09 day of JULY, 2013, Commissioners Court
came on to be heard and reviewed the accompanying notice
of SEAWAY CRUDE PIPELINE COMPANY, LLC

Job Location SEVERAL COUNTY ROADS AND COUNTY DRAINAGE DITCHES

Dated 07/02/13 Bond No. SU1121825, Permit No. 84382
to make use of certain Fort Bend County property subject to, "A Revised 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, date the 3rd day of August, 1987, recorded in
Volume _____ of the Minutes of the Commissioners Court of Fort Bend County,
Texas, to the extent that such order is not inconsistent with Article 1436a, Vernon's
Texas Civil Statutes. Upon Motion of Commissioner Meyers, seconded
by Commissioner Patterson, duly put and carried, it is ORDERED,
ADJUGED 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.

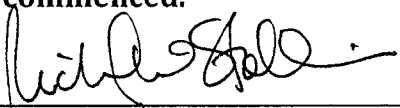
Notes:

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

Mail notices to: Permit Administrator
Fort Bend County Engineering
P.O. Box 1449
Rosenberg, Texas 77471
281-633-7500

3. This permit expires one (1) year from date of permit if construction has not
commenced.

By



County Engineer

By

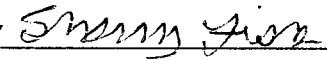


Drainage District Engineer/Manager

Presented to Commissioners Court
and approved.

Recorded in Volume 7-9-13
Minutes of Commissioners Court.

Clerk of Commissioners Court

By 

Deputy

PERFORMANCE BOND COVERING ALL CABLE, CONDUIT AND/OR POLE LINE
ACTIVITY IN, UNDER, ACROSS OR ALONG FORT BEND COUNTY ROADS
AUTHORIZED

Bond No: SU1121825

THE STATE OF TEXAS §
COUNTY OF FORT BEND § KNOW ALL MEN BY THESE PRESENTS:

THAT WE, **Seaway Crude Pipeline Company LLC** whose address is P.O. Box 4735, Houston, Texas, hereinafter called the Principal, and **Arch Insurance Company**, a Corporation existing under and by virtue of the laws of the State of Missouri and authorized to do an indemnifying business in the State of Texas, and whose principal office is located at 2711 Haskell Ave, Suite 500, Dallas, Texas 75204, whose officer residing in the State of Texas, authorized to accept service in all suits and actions brought within said State is Nancy Ellis and whose address is 2711 Haskell Ave, Suite 500, Dallas, Texas 75204, 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 **Three Hundred Fifty Thousand Dollars (\$350,000)** 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 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;

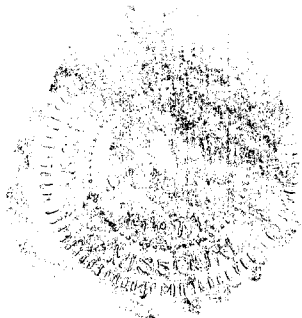
AND WHEREAS, the principal desires to provide Fort Bend County with a performance bond covering all such cable, conduit and/or pole line activity;

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 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 6th day of June, 2013.



Seaway Crude Pipeline Company LLC
PRINCIPAL

W. Randall Fowler
BY: W. RANDALL FOWLER
EXEC. V.P. & C.F.O.

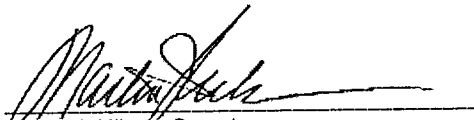
Arch Insurance Company
SURETY

Carol E. Hock
BY: Carol E. Hock, Attorney-In-Fact

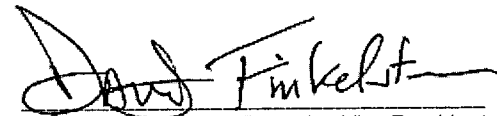
In Testimony Whereof, the Company has caused this instrument to be signed and its corporate seal to be affixed by their authorized officers, this 17th day of November, 2011.

Attested and Certified

Arch Insurance Company


Martin J. Nilsen, Secretary

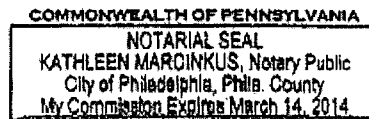


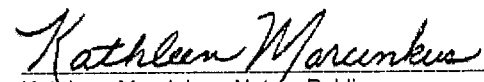

David M. Finkelstein, Executive Vice President

STATE OF PENNSYLVANIA SS

COUNTY OF PHILADELPHIA SS

I, Kathleen Marcinkus, a Notary Public, do hereby certify that Martin J. Nilsen and David M. Finkelstein personally known to me to be the same persons whose names are respectively as Secretary and Executive Vice President of the Arch Insurance Company, a Corporation organized and existing under the laws of the State of Missouri, subscribed to the foregoing instrument, appeared before me this day in person and severally acknowledged that they being thereunto duly authorized signed, sealed with the corporate seal and delivered the said instrument as the free and voluntary act of said corporation and as their own free and voluntary acts for the uses and purposes therein set forth.

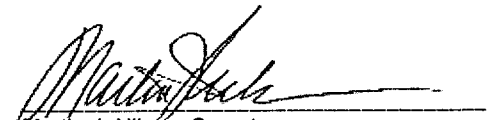



Kathleen Marcinkus, Notary Public
My commission expires 03/14/2014

CERTIFICATION

I, Martin J. Nilsen, Secretary of the Arch Insurance Company, do hereby certify that the attached Power of Attorney dated November 17, 2011 on behalf of the person(s) as listed above is a true and correct copy and that the same has been in full force and effect since the date thereof and is in full force and effect on the date of this certificate; and I do further certify that the said David M. Finkelstein, who executed the Power of Attorney as Executive Vice President, was on the date of execution of the attached Power of Attorney the duly elected Executive Vice President of the Arch Insurance Company.

IN TESTIMONY WHEREOF, I have hereunto subscribed my name and affixed the corporate seal of the Arch Insurance Company on this 17th day of June, 2013.


Martin J. Nilsen, Secretary

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

PLEASE SEND ALL CLAIM INQUIRIES RELATING TO THIS BOND TO THE FOLLOWING ADDRESS:

Arch Insurance – Surety Division
3 Parkway, Suite 1500
Philadelphia, PA 19102



THIS POWER OF ATTORNEY IS NOT VALID UNLESS IT IS PRINTED ON BLUE 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. Not valid for Mortgage, Note, Loan, Letter of Credit, Bank Deposit, Currency Rate, Interest Rate or Residential Value Guarantees.

POWER OF ATTORNEY

Know All Persons By These Presents:

That the Arch Insurance Company, a corporation organized and existing under the laws of the State of Missouri, having its principal administrative office in Jersey City, New Jersey (hereinafter referred to as the "Company") does hereby appoint:

Carol E. Hock, Robert M. Overbey, Jr. and Suzanne D. Lawrence of Houston, TX (EACH)

its true and lawful Attorney(s)-in-Fact, to make, execute, seal, and deliver from the date of issuance of this power for and on its behalf as surety, and as its act and deed:

Any and all bonds, undertakings, recognizances and other surety obligations, in the penal sum not exceeding Ninety Million Dollars (\$90,000,000.00)

This authority does not permit the same obligation to be split into two or more bonds in order to bring each such bond within the dollar limit of authority as set forth herein.

The execution of such bonds, undertakings, recognizances and other surety obligations in pursuance of these presents shall be as binding upon the said Company as fully and amply to all intents and purposes, as if the same had been duly executed and acknowledged by its regularly elected officers at its principal administrative office in Jersey City, New Jersey.

This Power of Attorney is executed by authority of resolutions adopted by unanimous consent of the Board of Directors of the Company on September 15, 2011, true and accurate copies of which are hereinafter set forth and are hereby certified to by the undersigned Secretary as being in full force and effect:

"VOTED, That the Chairman of the Board, the President, or the Executive Vice President, or any Senior Vice President, of the Surety Business Division, or their appointees designated in writing and filed with the Secretary, or the Secretary shall have the power and authority to appoint agents and attorneys-in-fact, and to authorize them subject to the limitations set forth in their respective powers of attorney, to execute on behalf of the Company, and attach the seal of the Company thereto, bonds, undertakings, recognizances and other surety obligations obligatory in the nature thereof, and any such officers of the Company may appoint agents for acceptance of process."

This Power of Attorney is signed, sealed and certified by facsimile under and by authority of the following resolution adopted by the unanimous consent of the Board of Directors of the Company on September 15, 2011:

VOTED, That the signature of the Chairman of the Board, the President, or the Executive Vice President, or any Senior Vice President, of the Surety Business Division, or their appointees designated in writing and filed with the Secretary, and the signature of the Secretary, the seal of the Company, and certifications by the Secretary, may be affixed by facsimile on any power of attorney or bond executed pursuant to the resolution adopted by the Board of Directors on September 15, 2011, and any such power so executed, sealed and certified with respect to any bond or undertaking to which it is attached, shall continue to be valid and binding upon the Company.



ARCH Insurance Company

ARCH Surety

TEXAS CONSUMER NOTICE

IMPORTANT NOTICE

To obtain information or make a complaint:

You may contact your agent at the telephone number provided on the Declarations page of your policy.

You may contact William J. Misero, Surety, Arch Insurance Company, at the toll-free telephone number or address provided below:

**Arch Insurance Company
Attention: William J. Misero
3 Parkway Suite 1500
Philadelphia PA 19102
1-866-472-8845**

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:

**P.O. Box 149091
Austin, TX. 78714-9091
FAX# (512) 475-1771**

PREMIUM OR CLAIM DISPUTES:

Should you have a dispute concerning your premium or about a claim you should contact the agent or the company first. 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.

COUNTY OF FORT BEND

Engineering Department

P.O. BOX 1449
Rosenberg, Texas 77471-1449

Johnny Ortega
Permit Administrator

1124 Blume Road
Phone: (281) 341-7500

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

PERMIT NO. 084382

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.

- X (1) Complete Application Form.
- X a. Name of road, street, and/or drainage ditch affected.
- X b. Vicinity map showing course of direction.
- X c. Plans and specifications.

- X (2) Bond:
- District Attorney, approval when applicable.
- Perpetual bond currently posted.
- No.
- Amount
- X Performance bond submitted.
- No. SU1121825
- Amount \$350,000.00
- Cashier's Check.
- No.
- Amount

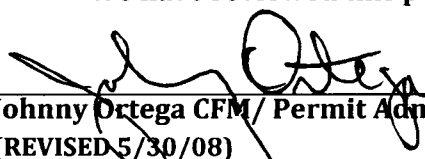
- (3) Verbal permission given for emergencies, to start construction before approved in Commissioner's Court.

 Precinct Engineer Acknowledgment Date

 Precinct Commissioner Acknowledgment Date

- (4) 
- Drainage District Approval when applicable

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


Johnny Ortega CFM/ Permit Administrator
(REVISED 5/30/08)

06/25/2013
Date

Pd. for

**FORT BEND COUNTY ENGINEERING
PERMIT DEPARTMENT
CONSTRUCTION OF DRIVEWAYS AND CULVERTS ON COUNTY EASEMENTS AND RIGHT OF WAYS
COMMERCIAL PIPE PERMIT APPLICATION
P.O. BOX 1449 • 1124 BLUME ROAD
ROSENBERG, TX 77471
(Phone) 281-633-7502 or 7503 • (Fax) 281-342-7366**

APPLICANT INFORMATION

Application No. 84382
(County Use Only)

Applicant Name Seaway Cude Pipeline Co. LLC
Applicant Mailing Address 4601 Ave H Suite 12
City Rosenberg State Texas Zip 77471
Work Phone 971-241-1455 Daytime Phone bsublet63@hotmail.com
Property Owner's Name Robert Steven Eiteman Phone _____
Property Owner's Mailing Address _____
City _____ State _____ Zip _____

LOCATION OF PROPERTY

Subdivision _____ Sec _____ Lot _____ Blk _____
Physical Address 10743 Needville Fairchild Rd. Needville Texas

(ATTACH A SITE MAP)

SITE USE

Driveway Curb & Gutter Section _____ Driveway - Open Ditch Section _____
Culvert Only ☒

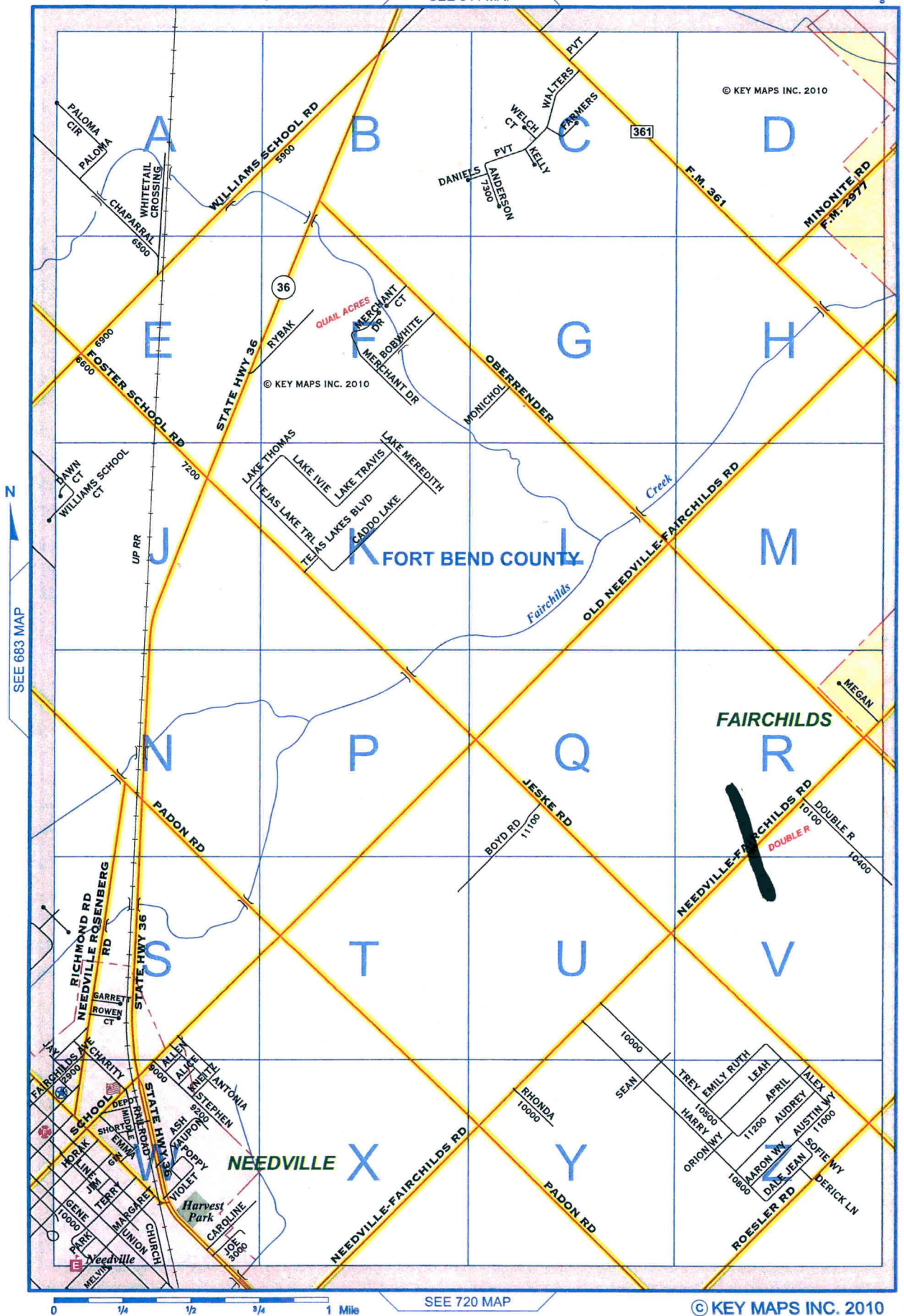
DRIVEWAY REQUIREMENTS

Length 20' minimum and 40' maximum Number of drives 1
(See - Fort Bend County Procedures to be followed for Commercial Driveway, and Median Openings or Modifications)
Available on website www.co.fort-bend.tx.us

Does project comply with Fort Bend County Lighting Regulation Yes () No ()
(See- Fort Bend County Outdoor Lighting Regulation on website www.co.fort-bend.tx.us)

- By signing and submitting this permit application, I am stating that I am the owner of this property and I am aware of and agree to abide by the Fort Bend County Regulations of Subdivisions and I am aware of Section 2, Item F in the Permits for the Construction of Driveways & Culverts on County Easements and Right of Ways in Fort Bend County, and am responsible to obtain all other required permits associated with the above mentioned property. Driveway and Pipe Permits shall provide that construction pursuant to the permit will be commenced within six months and be completed within nine months from the date of the permit and that fees collected for said permits shall not be refundable or transferable. I further understand the permit fee, in the form of CASH or PERSONAL CHECK or COMPANY CHECK or a CASHIERS CHECK or MONEY ORDER payable to FORT BEND COUNTY, must be attached.
- The undersigned applicant, agent or attorney hereby certifies to Commissioners' Court to be strictly bound to Commissioners' Court to construct the driveway and/or culvert in strict conformity with the plans, specifications, terms provisions and conditions of the permit and any other written material incorporated by reference in this application.
- Other permits may be required for development. Please contact the Fort Bend County Road & Bridge Department for pipe sizing or the Fort Bend County Health Department for information on On-Site Sewage Facility permits prior to planning construction.
- Failure to possess or obtain required permits will result in legal action against the property owner as allowed by law.

Spencer R. Sublet Agent for Seaway Cude Pipeline Co. LLC.
Signature of Applicant, Agent or Attorney Date 06/24/13
Spencer R. Sublet
Printed Name



Seaway Crude Pipeline Company LLC
Temporary Construction Culvert Locations

PERMIT NUMBER	PERMIT TYPE	Landowner	Road	ADDRESS	Key Map Pg.
TX-FB-0128.00040	Temp. Culvert 20'	Foster Farms	Stratman Rd. Westside	Stratman Rd. & Beadle Ln. Richmond TX. 77406	563
TX-FB-0151.00040	Temp. Culvert 20'	Brett Miller, Trust	Cottonwood Church Rd.	1500 Cottonwood Church Rd. Rosenberg TX. 77471	643
TX-FB-0152.00040	Temp. Culvert 20'	Brett Miller, Trust	Cottonwood Church Rd.	1500 Cottonwood Church Rd. Rosenberg TX. 77471	643
TX-FB-0164.00040	Temp. Culvert 20'	Harl D. Pruitt	Band Rd.	3810 Band Rd. Rosenberg TX. 77471	644
TX-FB-0203.00040	Temp. Culvert 20'	Leslie Walter	Needville Fairchild Rd.	10742 Needville Fairchild Rd. Needville TX. 77461	684
TX-FB-0207.00040	Temp. Culvert 20'	Charles W. Drumm	Jeske Rd.	10611 Jeske Rd. Needville TX. 77461	684
TX-FB-0210.00040	Temp. Culvert 20'	J.R & Cherry Commander	Roesler Rd.	11313 Roester Rd. Needville TX. 77461	684
TX-FB-0231.00040	Temp. Culvert 20'	Landgrant Resources Ltd.	Dannhaus Rd.	11904 Dannhaus Rd. Needville TX. 77461	721
TX-FB-0231.00041	Temp. Culvert 20'	Landgrant Resources Ltd.	Padon Rd.	13347 Padon Rd. Needville TX. 77461	721
TX-FB-0232.00040	Temp. Culvert 20'	Todd Coleman II	Padon Rd.	13348 Padon Rd. Needville TX. 77461	721

**NOTICE OF PROPOSED CABLE, CONDUIT AND/OR POLE LINE ACTIVITY
IN, UNDER, ACROSS OR ALONG ROADS, STREETS, HIGHWAYS AND DRAINAGE DITCHES
IN FORT BEND COUNTY**

APPLICANT'S JOB NO. _____
 PERMIT No. 541121825 PCT. No. 1
 BOND No. 541121825

Formal notice is hereby given that Seaway Crude Pipeline Company LLC
 proposes to lay, construct, maintain and/or repair cable, conduit and/or pole line, in, under,
 across, or along roads, streets, highways and drainage ditches in Fort Bend County, as follows:

In, Under, or Across Roads and/or Drainage Ditches

Road or Ditch Name	: Distance & Direction From : Nearest Intersection	: Length of : Crossing	: Type of Construction Bored: Jacked: Driven: Cased
See, attached	:	:	X : : :
:	:	:	: : :
:	:	:	: : :

Along Roads and/or Drainage Ditches

Road or Ditch Name	: Distance & Direction From : Nearest Intersection	: To : Distance
:	:	:
:	:	:
:	:	:

General Description

The Location and description of the proposed installation and appurtenances is more fully shown on the attached detail drawings. The laying, construction, maintenance and/or repair of the proposed installation shall be subject to "A Revised Order Regulating the Laying, Construction, Maintenance and/or Repair of Cables, Conduits, and/or 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 Commissioners Court of Fort Bend County, Texas, dated the 3rd. day of August, 1987, recorded in Volume 639 of the Minutes of the Commissioners Court of Fort Bend County, Texas.

Written notices are required: 1) 48 hours in advance of start of construction and
 2) when construction is complete and ready for final inspection.

Mail to: Permit Administrator/Fort Bend County Engineering
 P.O. Box 1449, Rosenberg, TX 77471.

Violation of requirements shall constitute grounds for job shut down.

Does project
comply with Fort
Bend County
Outdoor Lighting
Ordinance?

Yes ()

No ()

COMPANY NAME: Seaway Crude Pipeline Company LLC
 AGENT and/or OWNER

Bruce R. Sublet
 (Signature)

NAME & TITLE Bruce R. Sublet, Permit Agent
 (Please Print)

DATE 6/14/13

ADDRESS 4601 Avenue H, Suite # 12
 (Street/P.O. Box)

Rosenberg TX 77471
 City State Zip

TELEPHONE NO: (971) 241-1455 bsublet63@hotmail.com
 (accessible 24 hrs/day, 7 days/week)

Fort Bend County Roads

Tract Number	Permit Type	Feature ID	Distance & Direction From Nearest Intersection	Length of Crossing	Type of Construction
TX-FB-0106.00010	County Road	Fulshear Katy Road		147 feet	Bore
TX-FB-0122.00010	County Road	McKinnon Road		77 feet	Bore
TX-FB-0127.00010	County Road	Winner Foster Road		110' [?] EST	Open Cut
TX-FB-0128.00010	County Road	Stratman Road		158 feet	Bore
TX-FB-0133.00010	County Road	Muegge Road	Rosenbergs City now	74 feet	Bore
TX-FB-0137.00110	County Road	Kroesche Road		55 feet	Bore
TX-FB-0144.00010	County Road	Hobizal Road		80 feet	Bore
TX-FB-0151.00010	County Road	Cottonwood Church Road		85 feet	Bore
TX-FB-0152.00010	County Road	Cottonwood School Road		89 feet	Bore
TX-FB-0164.00010	County Road	Band Road		85 feet	Bore
TX-FB-0172.00010	County Road	Fenske Road		93 feet	Bore
TX-FB-0175.00010	County Road	Saddle Drive		63 feet	Bore
TX-FB-0182.00010	County Road	William School Road		27 feet	Bore
TX-FB-0196.00010	County Road	Oberrender Road		88 feet	Bore
TX-FB-0199.00010	County Road	Old Needville Fairchild Road		69 feet	Bore
TX-FB-0203.00010	County Road	Needville Fairchild Road		114 feet	Bore
TX-FB-0207.00010	County Road	Jeske Road		117 feet	Bore
TX-FB-0208.00010	County Road	Roesler Road		75 feet	Bore
TX-FB-0230.00010	County Road	Danhauss Road		75 feet	Bore

Fort Bend County Roads

Tract Number	Permit Type	Feature ID	Distance & Direction From Nearest Intersection	Length of Crossing	Type of Construction
TX-FB-0231.00010	County Road	Padon Road		68 feet	Bore
TX-FB-0241.00010	County Road	Barek Road		65 feet	Bore

Work Area Near Shoulder

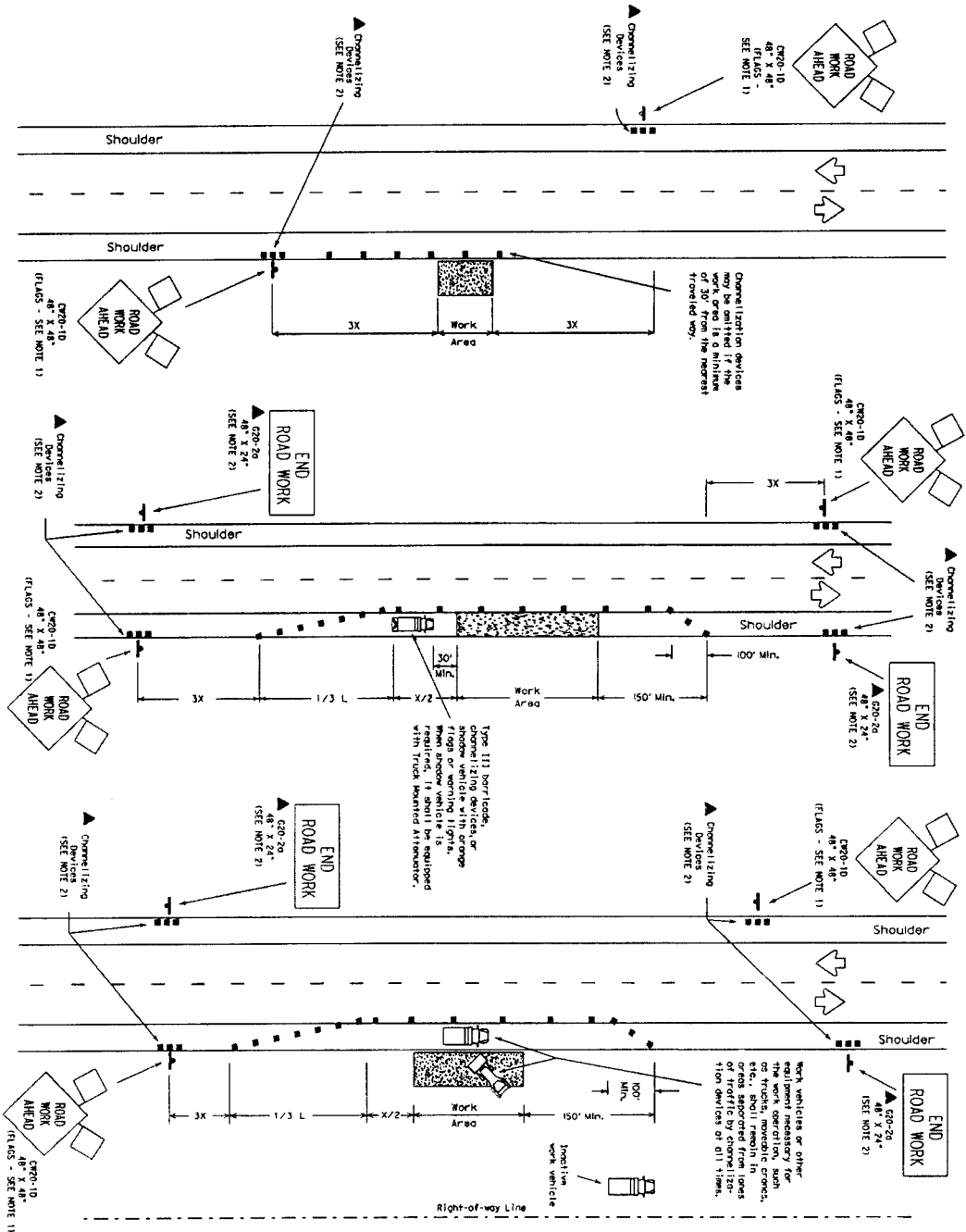
TCP (1-1a)

Work Area on Shoulder

TCP (1-1b)

Work Vehicles on Shoulder

TCP (1-1c)



Structural Engineer
 152 East 11th Street
 Austin, Texas 78701-2483
 Phone (512) 416-3335
 Fax (512) 416-3161
 Email: 152east11th@aol.com, stetec@ix.net

The requirement for shadow vehicles will be listed in the project GENERAL NOTES, Item 502, Barriocodes, Signs and Traffic Handling.

Texas Department of Transportation
Traffic Operations Division

TRAFFIC CONTROL PLAN

TCP (1-1)-98

① 1-HD1 December 1985		No. TROBT		Ch. TROBT		No. TROBT		Ch. TROBT	
MAY151005		LOW	HIGH			A9			W12000
2-94									
8-95									
1-97									
4-98									
				OALN				SWFT N	

[illegible]

***Taper lengths have been rounded off.
L=length of Taper (ft.), S=short Scone (mm)

TYPICAL USAGE:				
MOBILE	SHORT POSITION	SHORT TIE STATIONARY	INTERMEDIATE TIE STATIONARY	LONG TIE STATIONARY

1. Unless otherwise stored in the plans, flags attached to signs are REQUIRED.

2. All traffic control devices illustrated on **REGULATED** except those denoted with the triangle symbol may be omitted when erected in the plans.
3. On high speed facilities, advance warning signs should be installed approximately 31 from the work area or from the beginning of a lane or shoulder taper. On low speed facilities the advance warning signs should be placed based on the 1/4 mile distance.
4. Tapering work vehicles or other equipment should be parked near the right-of-way line and not parked on the paved shoulder.

Only pre-manufactured products should be used. A list of compliant products and their sources may be obtained by writing or telephoning:

Standard Engineer
Traffic Operations Division - 7E
Texas Department of Transportation
155 East 11th Street
Austin, Texas 78701-2483
Phone (512) 416-3335
Fax (512) 416-3338
E-mail: 1176-5710@dot.state.tx.us

Exhibit A
High Pressure Pipeline - 60 PSI or over
Liquid Pipeline
Project: Enterprise Seaway Segments 3 and 4

<u>Carrier Pipe</u>		<u>Casing Pipe</u>	
1. Diameter, inch	<u>30.000</u>	1. Diameter	<u>NA</u>
2. Wall Thickness, inch	<u>0.618</u>	2. Wall Thickness	<u>NA</u>
3. Material Specifications	<u>API-5L-X70</u>	3. Material Specifications	<u>NA</u>
4. Specified Minimum Yield Strength, psi	<u>70,000</u>	4. Specified Minimum Yield	<u>NA</u>
5. Maximum Operating Pressure, psig	<u>1440</u>	5. Maximum Operating	<u>NA</u>

The pipeline material and design must meet the minimum Federal Safety Standards for Liquid Pipelines, Code of Federal Regulations - Part 195 and Design Subpart C - 195.106.

Calculations:

$$t = PD/2SEF$$

$$t_{min} = \frac{(P \times D)}{2(S \times E \times F)}$$

$$t_{min} = \frac{(1440 \times 30.000)}{2(70,000 \times 0.72 \times 1.0)}$$

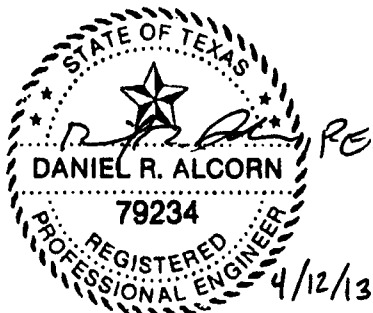
P =	1440	MOP, psi
D =	30.000	Pipe OD, inches
S =	70000	SMYS, psi
F =	0.72	Design Factor (49 CFR 195.106)
E =	1.0	Seam Joint Factor (49 CFR 195.106)
t _{min} =	0.4286	Calculated minimum wall thickness, inches
t _{actual} =	0.6180	Pipe wall thickness, inches

t _{actual} ≥ t _{min}
--

Since the actual thickness of the pipe is greater than the required wall thickness, the crossing pipe is adequate.

D. R. Alcorn, P.E.
Engineer's Signature

4/12/13
Date



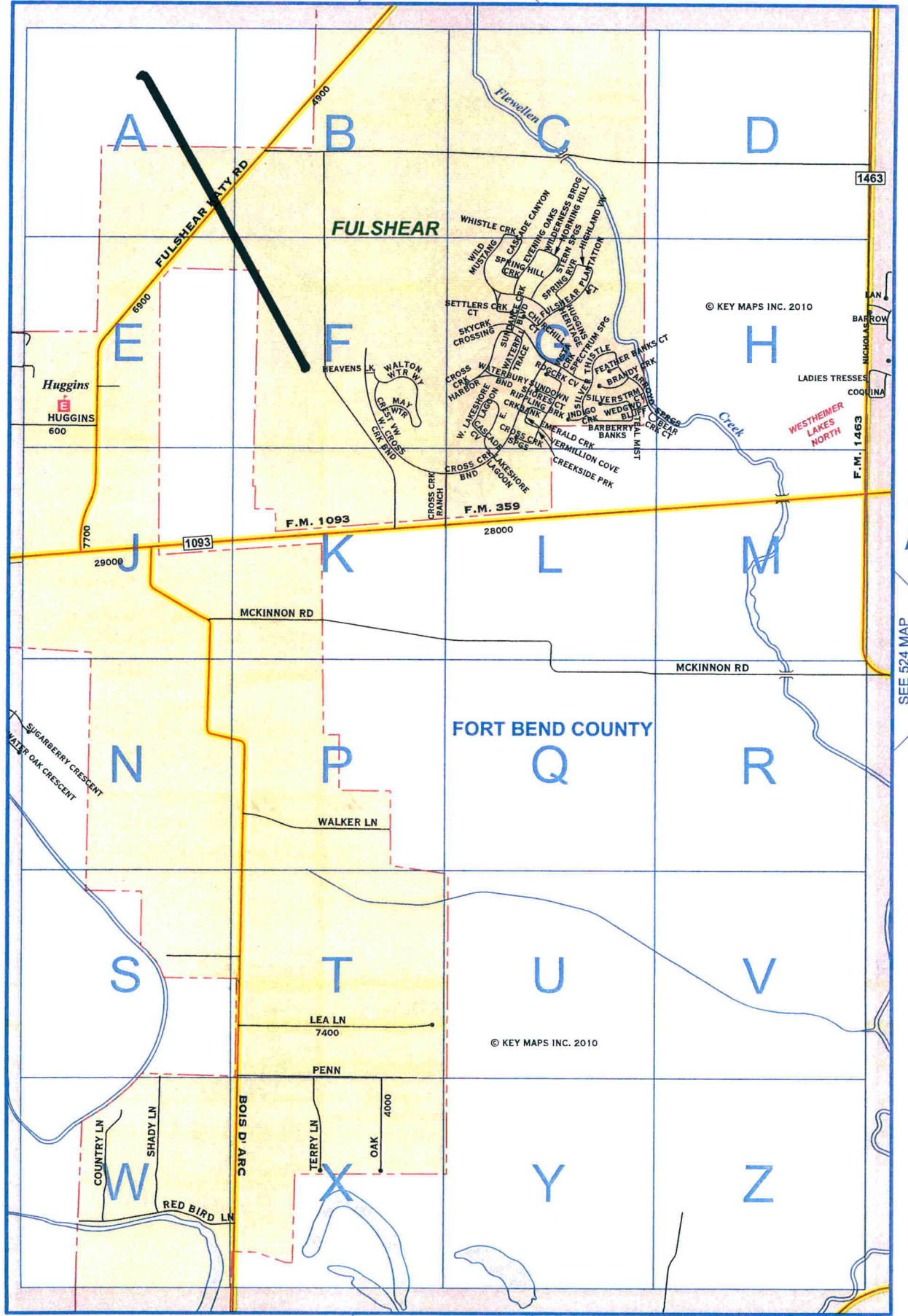
FORT BEND COUNTY, TEXAS

SCALE	PROJECT NO.	DRAWING NO.	SHEET	REV.
1"=100'	52068	TX-FB-0106.00010	1 OF 1	A



SEE 483 MAP

523



0 1/4 1/2 3/4 1 Mile

SEE 563 MAP

© KEY MAPS INC. 2010

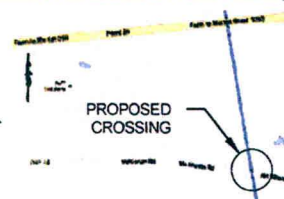
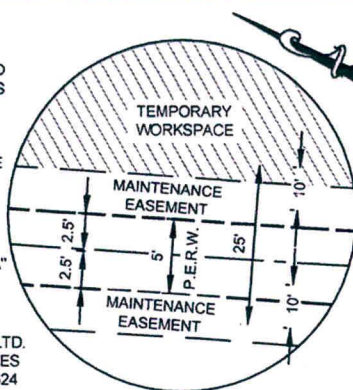
FORT BEND COUNTY, TEXAS

THE CONTRACTOR MUST NOTIFY COUNTY ENGINEERING 48 HOURS PRIOR TO CONSTRUCTION GIVING THE NAME OF THE CONSTRUCTION COMPANY, THE NAME AND NUMBER OF AN ON SITE SUPERVISOR, AND THE INTENDED START DATE. THE CONTRACTOR MUST NOTIFY THE PERMIT AGENT 48 HOURS PRIOR TO CONSTRUCTION TO ACCESS THE "UIR" PROGRAM AND GIVE 48 HOURS NOTICE INCLUDING IN THE COMMENTS BOX - THE CONSTRUCTION COMPANY NAME, CONTACT PERSON'S NAME, CELL NUMBER, AND START DATE. ALL ROAD BORES SHALL BE ACCOMPLISHED WITH THE CONVENTIONAL DRY AUGER, UNLESS OTHERWISE APPROVED BY A COUNTY ENGINEERING INSPECTOR, MAINTENANCE SUPERVISOR, OR AREA ENGINEER.

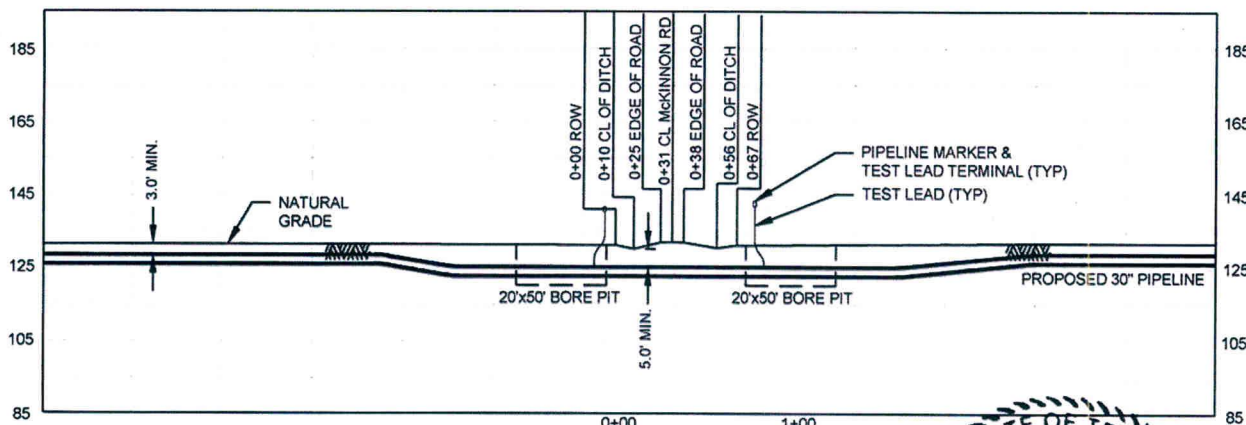
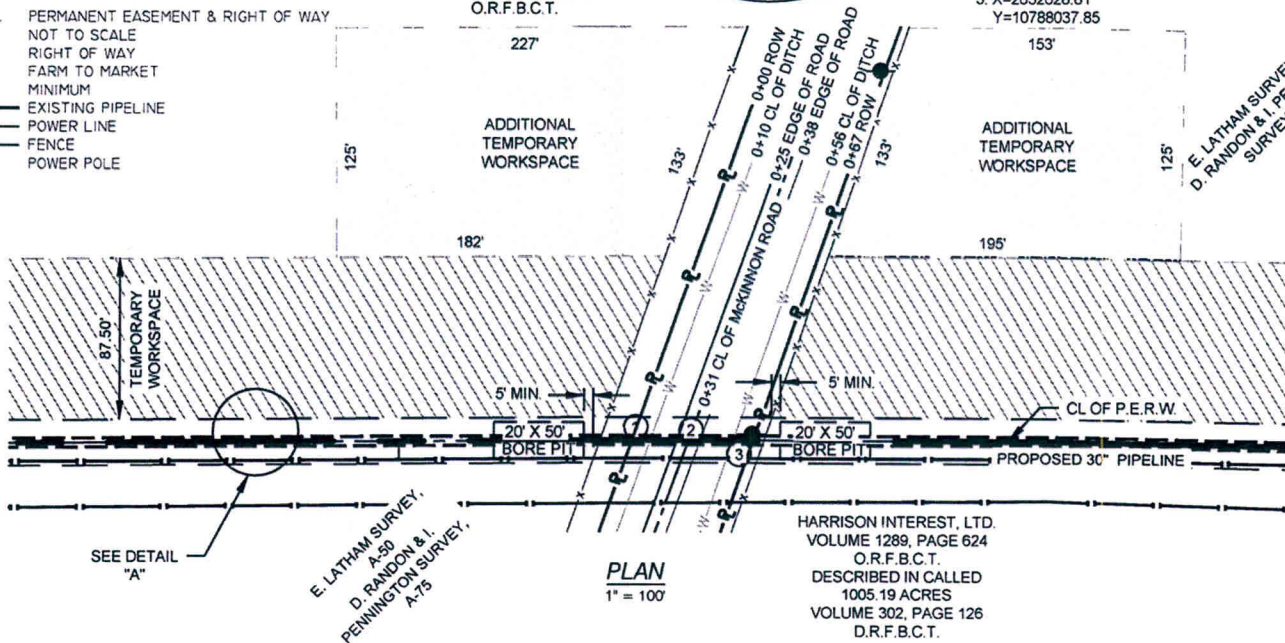
1. IN CURB/GUTTER STREETS, PIPELINE IS TO BE INSERTED AT A 2" MIN. BELOW THE SLAB.
2. ALL MINIMUM DEPTH REQUIREMENTS MEASURED AT THE TOP OF PIPE OR CASING.
3. A MIN. OF 30' OF CLEARANCE FROM NEAREST TRAFFIC LANE IS REQUIRED FOR BORE PITS.

LEGEND

P.E.R.W. PERMANENT EASEMENT & RIGHT OF WAY
N.T.S. NOT TO SCALE
ROW RIGHT OF WAY
F.M. FARM TO MARKET
MIN. MINIMUM
EXISTING PIPELINE
POWER LINE
FENCE
POWER POLE



LOCATION COORDINATES
1. X=2632613.59
Y=10788103.15
2. X=2632620.70
Y=10788072.67
3. X=2632628.81
Y=10788037.85



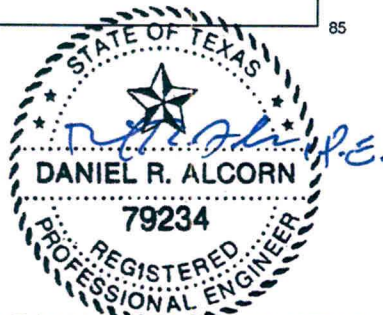
PIPE SPECIFICATIONS

CONTENTS: CRUDE OIL
DESIGN FACTOR: 0.72
CARRIER PIPE: 30" O, 0.818" W.T., API 5L X70, DSAW, PSL2
COATING: 15-22 MILS FBE & 30-40 MILS ARO
M.O.P.: 1,440 PSIG
PIPELINE CATHODICALLY PROTECTED
METHOD OF INSTALLATION: CONVENTIONAL BORE

NOTE:

1. DATUM BASED ON TEXAS STATE PLANE COORDINATE SYSTEM, UTM NAD 83, ZONE 14N, NAVD 88, DERIVED FROM GPS OBSERVATION.
2. EXISTING UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS GENERATED FROM PREVIOUS MAPS AND SURVEY. CONTRACTOR SHALL VERIFY EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES IN AREA OF WORK PRIOR TO CONSTRUCTION AND CALL TEXAS ONE CALL SYSTEM AT 1-800-245-4545 AND ALL OTHER UTILITY COMPANIES AT LEAST 2 WORKING DAYS (48 HOURS) PRIOR TO CONSTRUCTION

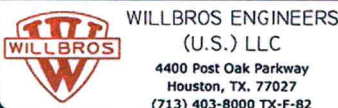
SCALE IN FEET



I, Daniel R. Alcorn, Registered Professional Engineer in the State of Texas, P.E. No. 79234, an employee of BILFINGER TEPSCO INC., Texas Firm No. F-4669, have reviewed the pipeline design and pipe testing specifications of this permit and have found them accurate and suitable for the proposed project. Pipeline routing is based on information provided by others. Actual construction routing, both open cut and bore sections, may vary as required for safety, constructability, or for other engineering reasons. ALL UNDERGROUND UTILITIES, WHETHER SHOWN ON THESE DRAWINGS OR NOT, SHOULD BE LOCATED BY THE CONTRACTOR AT LEAST 48 HOURS PRIOR TO DIGGING, TRENCHING, OR BORING.

I attest ONLY to the engineering aspects of the pipeline, and DO NOT attest to the accuracy, completeness, usefulness, or correctness of other aspects of the project, including but not limited to, survey, right-of-way, property ownership determination, and location of existing facilities that are the responsibility of other parties.

NO.	DATE	REVISION	BY	CHK	APPR	APPR	APPR
A	11/15/12	ISSUED FOR REVIEW	MP	JCL	JAW		



DRAWING ISSUES	CONSTRUCTION	LAST ORG.	DATE	REV.
BIDS				
APPROVAL				
INFORMATION				
ISSUED FOR:	SIGNATURE	DATE	REV.	
DRAWN:	MP	DATE: 11/15/12		
CHECKED:	JCL	DATE: 11/15/12		
ENGINEER:		DATE:		
W.E.I.:		DATE:		
CLIENT:		DATE:		
CLIENT:		DATE:		

ROAD CROSSING PERMIT

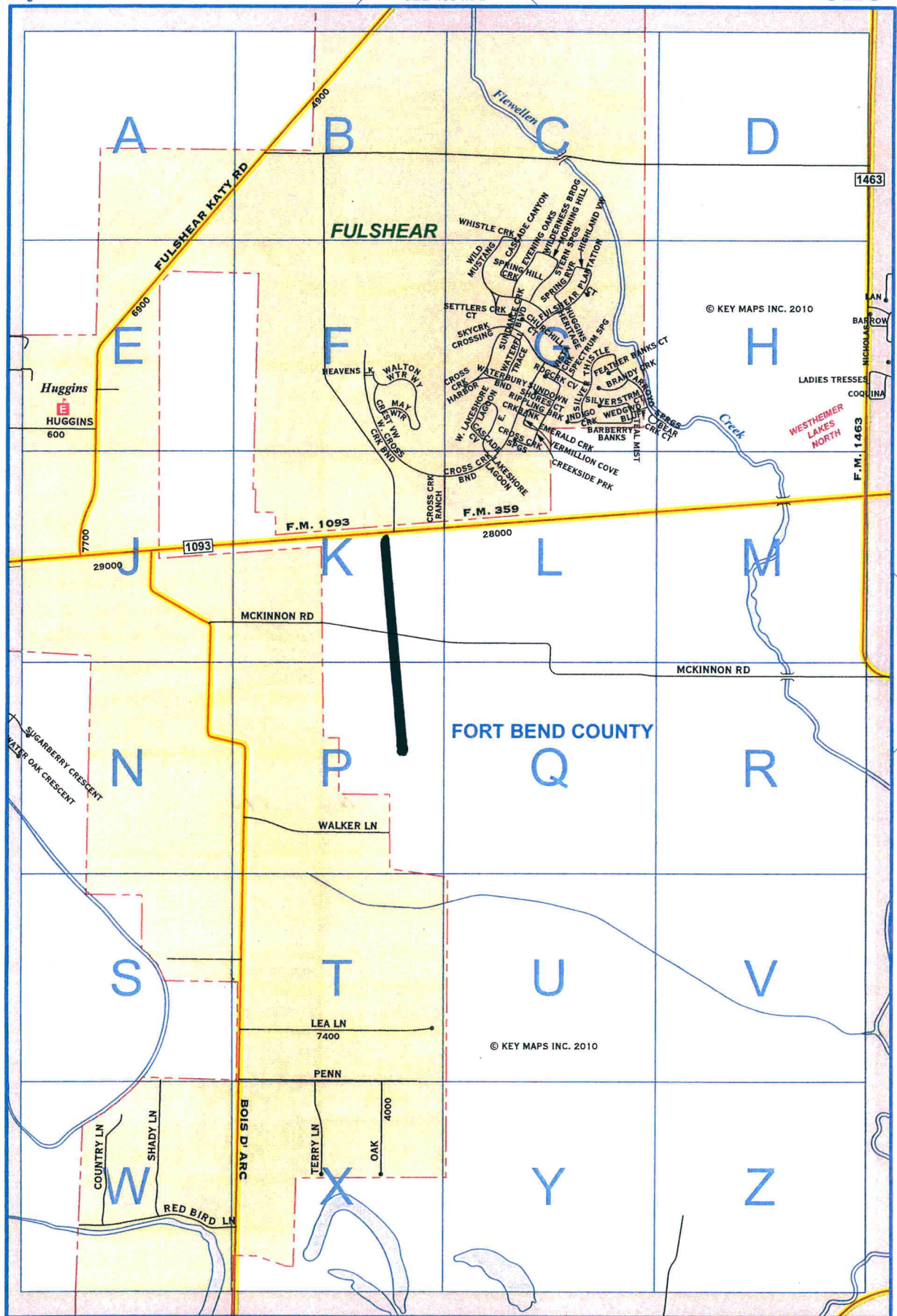
SEAWAY CRUDE PL COMPANY LLC
McKINNON ROAD
FORT BEND COUNTY, TX

SCALE	PROJECT NO.	DRAWING NO.	SHEET	REV.
1" = 100'	52068	TX-FB-0122.00010	1 OF 1	A



SEE 483 MAP

523



0 1/4 1/2 3/4 1 Mile

SEE 563 MAP

© KEY MAPS INC. 2010

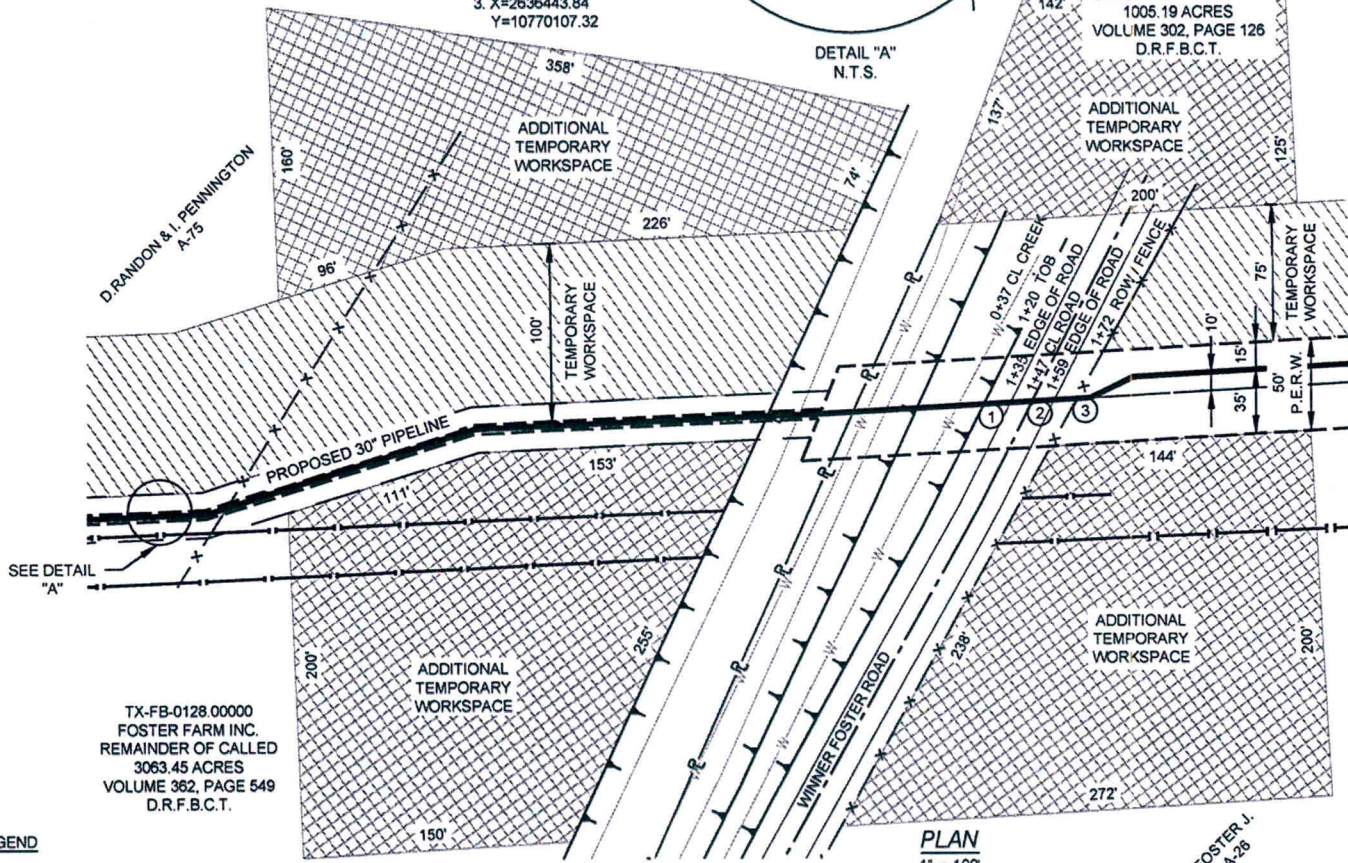
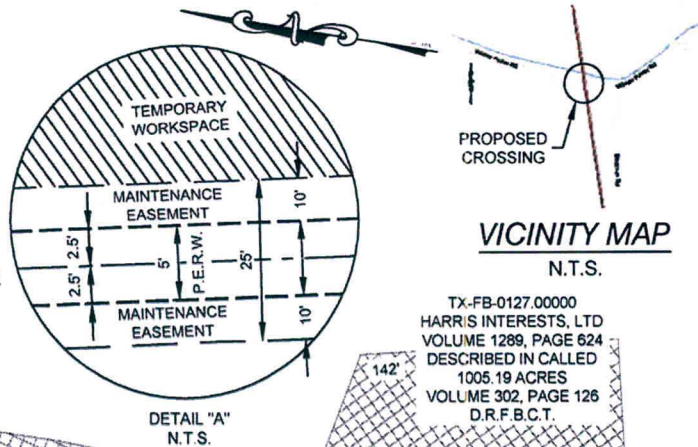
SEE 524 MAP

FORT BEND COUNTY, TEXAS

THE CONTRACTOR MUST NOTIFY COUNTY ENGINEERING 48 HOURS PRIOR TO CONSTRUCTION GIVING THE NAME OF THE CONSTRUCTION COMPANY, THE NAME AND NUMBER OF AN ON SITE SUPERVISOR, AND THE INTENDED START DATE. THE CONTRACTOR MUST NOTIFY THE PERMIT AGENT 48 HOURS PRIOR TO CONSTRUCTION TO ACCESS THE "UIR" PROGRAM AND GIVE 48 HOURS NOTICE INCLUDING IN THE COMMENTS BOX - THE CONSTRUCTION COMPANY NAME, CONTACT PERSON'S NAME, CELL NUMBER, AND START DATE. ALL ROAD BORES SHALL BE ACCOMPLISHED WITH THE CONVENTIONAL DRY AUGER, UNLESS OTHERWISE APPROVED BY A COUNTY ENGINEERING INSPECTOR, MAINTENANCE SUPERVISOR, OR AREA ENGINEER.

1. IN CURB/GUTTER STREETS, PIPELINE IS TO BE INSERTED AT A 2" MIN. BELOW THE SLAB.
2. ALL MINIMUM DEPTH REQUIREMENTS MEASURED AT THE TOP OF PIPE OR CASING.
3. A MIN. OF 30' OF CLEARANCE FROM NEAREST TRAFFIC LANE IS REQUIRED FOR BORE PITS.

LOCATION COORDINATES
1. X=2636432.48
Y=10770155.58
2. X=2636438.35
Y=10770132.11
3. X=2636443.84
Y=10770107.32



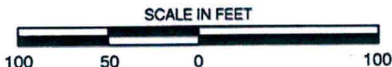
LEGEND

P.E.R.W. PERMANENT EASEMENT & RIGHT OF WAY
N.T.S. NOT TO SCALE
TOB TOP OF BANK
EXISTING PIPELINE
P POWER LINE
X FENCE

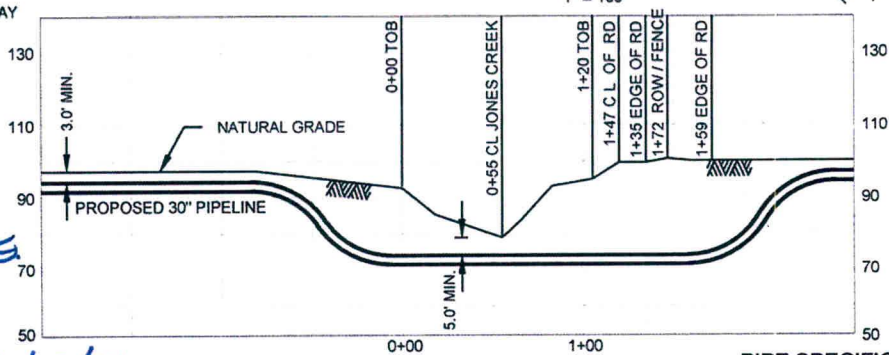


I, Daniel R. Alcorn, a Professional Engineer in the State of Texas, P.E. No. 79234, an employee of SEAWAY CRUDE PL, LLC, Texas Firm No. F-4669, have reviewed the pipeline design and plan showing specifications of this permit and have found them accurate and suitable for the proposed project. Pipeline routing is based on information provided by others. Actual construction routing, both open cut and bore sections, may vary as required for safety, constructability, or for other engineering reasons. ALL UNDERGROUND UTILITIES, WHETHER SHOWN ON THESE DRAWINGS OR NOT, SHOULD BE LOCATED BY THE CONTRACTOR AT LEAST 48 HOURS PRIOR TO DIGGING, TRENCHING, OR BORING.

I attest ONLY to the engineering aspects of the pipeline, and DO NOT attest to the accuracy, completeness, usefulness, or correctness of other aspects of the project, including but not limited to, survey, right-of-way, property ownership determination, and location of existing facilities that are the responsibility of other parties.



6/13/13



IMPROVED ROAD - OPEN CUT METHOD

PROFILE

1" = 100 H
1" = 50' V

PIPE SPECIFICATIONS

CONTENTS: CRUDE OIL
DESIGN FACTOR: 0.72
CARRIER PIPE: 30"Ø, 0.618" w.t., API 5L X70, DSAW, PSL2
COATING: 15-22 MILS FBE
M.O.P.: 1,440 PSIG
PIPELINE CATHODICALLY PROTECTED
METHOD OF INSTALLATION: OPEN CUT

NOTE:

1. DATUM BASED ON TEXAS STATE PLANE COORDINATE SYSTEM, UTM NAD 83, ZONE 14N, NAVD 88, DERIVED FROM GPS OBSERVATION.
2. EXISTING UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS GENERATED FROM PREVIOUS MAPS AND SURVEY. CONTRACTOR SHALL VERIFY EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES IN AREA OF WORK PRIOR TO CONSTRUCTION AND CALL TEXAS ONE CALL SYSTEM AT 1-800-245-4545 AND ALL OTHER UTILITY COMPANIES AT LEAST 2 WORKING DAYS (48 HOURS) PRIOR TO CONSTRUCTION

NO.	DATE	REVISION	BY	CHK	APPR	APPR	APPR
A	11/09/12	ISSUED FOR REVIEW	SN	JCL	JAW		



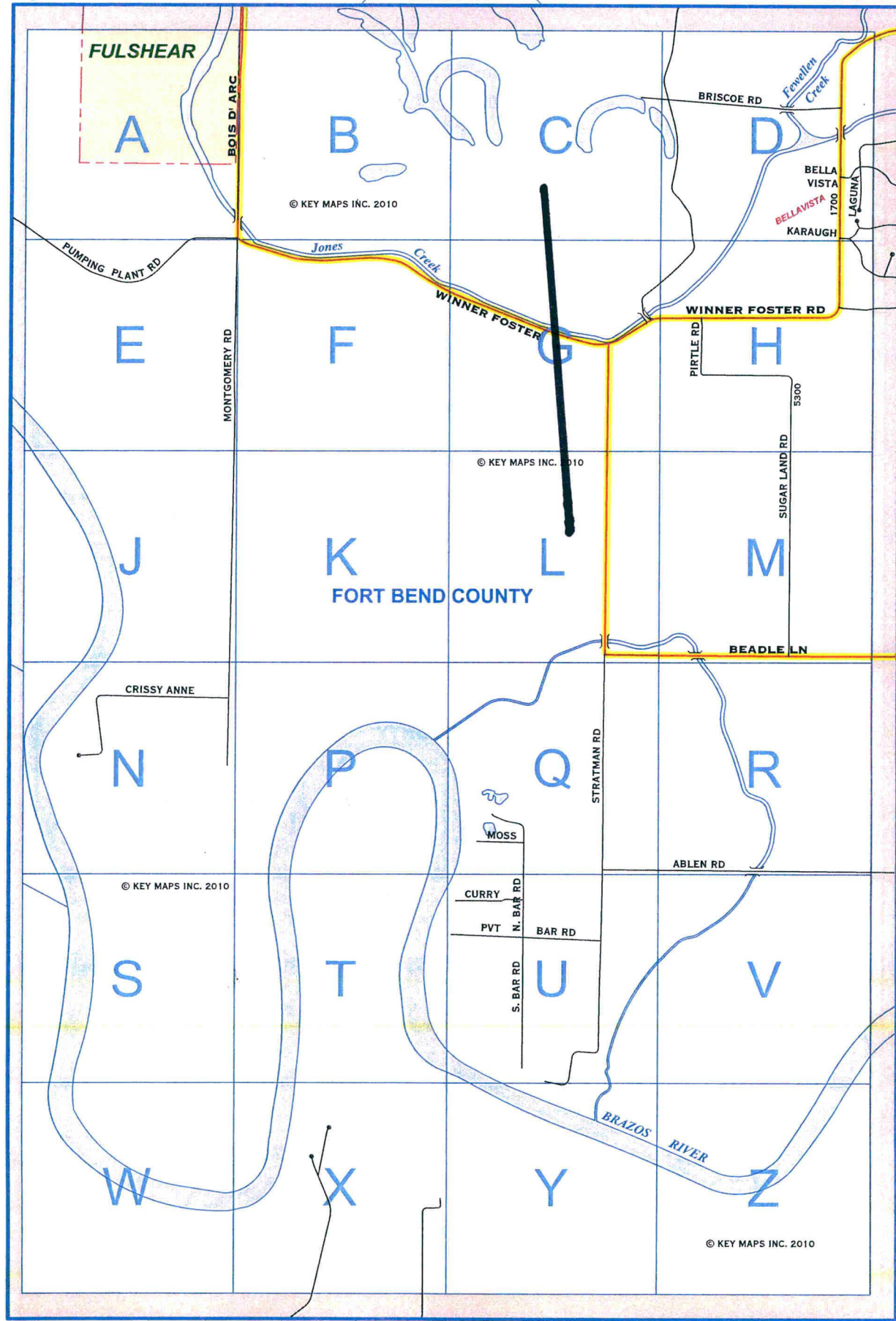
DRAWING ISSUES	CONSTRUCTION	LAST	DATE	REV.
BIDS	LAST			
APPROVAL	LAST			
INFORMATION	LAST			
ISSUED FOR:	SIGNATURE	DATE		
DRAWN:	SN	DATE:	11/09/12	
CHECKED:	JCL	DATE:	11/09/12	
ENGINEER:		DATE:		
W.E.I.:		DATE:		
CLIENT:		DATE:		
CLIENT:		DATE:		

ROAD CROSSING PERMIT
SEAWAY CRUDE PL COMPANY LLC
WINNER FOSTER ROAD
FORT BEND COUNTY, TX

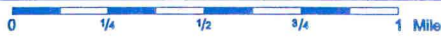
SCALE	PROJECT NO.	DRAWING NO.	SHEET	REV.
1"=100'	52068	TX-FB-0127.00010	1 OF 1	A



SEE 523 MAP



SEE 564 MAP



SEE 603 MAP

1. PIPELINE CROSSING AND ROAD RESTORATION IS LOCATED WEST OF INTERSECTION OF WINNER-FOSTER ROAD & STRATHMAN ROAD IN RICHMOND, FORT BEND COUNTY, TX; PROPOY OWNERSHIP TRACT # TX-FB-0127.00010.
2. AGGREGATE BASE COURSE MATERIAL AND CONSTRUCTION SHALL CONFORM TO ITEM 200 SPECIFICATION "SUBGRADE TREATMENTS AND BASE" OF TXDOT "STANDARD SPECIFICATION AND MAINTENANCE OF HIGHWAYS, STREETS, AND BRIDGES".
3. ASPHALT PAVEMENT MATERIAL AND CONSTRUCTION SHALL CONFORM TO ITEM 300 SPECIFICATION "SURFACE COURSE AND PAVEMENT" OF TXDOT "STANDARD SPECIFICATION AND MAINTENANCE OF HIGHWAYS, STREETS, AND BRIDGES".
4. ASPHALT FINISH OVER FLEXIBLE BASE SHALL ALSO CONFORM TO TXDOT ITEM 247 STANDARD SPECIFICATION.

BACKFILL AND BASE COURSE COMPACTION REQUIREMENTS:

1. UNDER PAVEMENTS, THE AVERAGE DENSITY SHALL BE MIN. 95% WITH NO INDIVIDUAL TEST LOWER THAN 92% OF THE MATERIAL'S LABORATORY MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT AS DETERMINED BY AASHTO DESIGNATION T-180 (ASTM D-1557).
2. IN SHOULDERS AND OTHER UNIMPROVED AREAS, THE AVERAGE DENSITY SHALL BE 90% WITH NO INDIVIDUAL TEST LOWER THAN 86% OF THE MATERIAL'S LABORATORY MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT AS DETERMINED BY AASHTO DESIGNATION T-180 (ASTM D-1557).
3. TRENCH BACKFILL MATERIAL UNDER THE ROAD SHALL NOT CONSIST OF ANY UNSUITABLE MATERIAL SUCH AS VEGETATION, ORGANIC MATERIAL OR EXPANSIVE CLAY. ANY UNSUITABLE NATIVE SOIL OR SPOIL THAT CONTAINS SUCH MATERIAL IS PROHIBITED TO RETURN TO THE TRENCH AND SHALL BE REPLACED WITH IMPORTED, GRADED BACKFILL.
4. TRENCH BACKFILL SHALL BE CONDUCTED IN LAYERS AND NOT EXCEED 10" PER EACH LIFT. COMPACTION OF EACH LIFT SHALL CONFORM TO THE STANDARD STATED IN NOTE #1.

1. UNDER PAVEMENTS, THE AVERAGE DENSITY SHALL BE MIN. 95% WITH NO INDIVIDUAL TEST LOWER THAN 92% OF THE MATERIAL'S LABORATORY MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT AS DETERMINED BY AASHTO DESIGNATION T-180 (ASTM D-1557).
2. IN SHOULDERS AND OTHER UNIMPROVED AREAS, THE AVERAGE DENSITY SHALL BE 90% WITH NO INDIVIDUAL TEST LOWER THAN 86% OF THE MATERIAL'S LABORATORY MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT AS DETERMINED BY AASHTO DESIGNATION T-180 (ASTM D-1557).
3. TRENCH BACKFILL MATERIAL UNDER THE ROAD SHALL NOT CONSIST OF ANY UNSUITABLE MATERIAL SUCH AS VEGETATION, ORGANIC MATERIAL OR EXPANSIVE CLAY. ANY UNSUITABLE NATIVE SOIL OR SPOIL THAT CONTAINS SUCH MATERIAL IS PROHIBITED TO RETURN TO THE TRENCH AND SHALL BE REPLACED WITH IMPORTED, GRADED BACKFILL.
4. TRENCH BACKFILL SHALL BE CONDUCTED IN LAYERS AND NOT EXCEED 10" PER EACH LIFT. COMPACTION OF EACH LIFT SHALL CONFORM TO THE STANDARD STATED IN NOTE #1.

[illegible]

FORT BEND COUNTY, TEXAS

THE CONTRACTOR MUST NOTIFY COUNTY ENGINEERING 48 HOURS PRIOR TO CONSTRUCTION GIVING THE NAME OF THE CONSTRUCTION COMPANY, THE NAME AND NUMBER OF AN ON SITE SUPERVISOR, AND THE INTENDED START DATE. THE CONTRACTOR MUST NOTIFY THE PERMIT AGENT 48 HOURS PRIOR TO CONSTRUCTION TO ACCESS THE "UIR" PROGRAM AND GIVE 48 HOURS NOTICE INCLUDING IN THE COMMENTS BOX - THE CONSTRUCTION COMPANY NAME, CONTACT PERSON'S NAME, CELL NUMBER, AND START DATE.

ALL ROAD BORES SHALL BE ACCOMPLISHED WITH THE CONVENTIONAL DRY AUGER, UNLESS OTHERWISE APPROVED BY A COUNTY ENGINEERING INSPECTOR, MAINTENANCE SUPERVISOR, OR AREA ENGINEER.

1. IN CURB/GUTTER STREETS, PIPELINE IS TO BE INSERTED AT A 2' MIN. BELOW THE SLAB.
2. ALL MINIMUM DEPTH REQUIREMENTS MEASURED AT THE TOP OF PIPE OR CASING.
3. A MIN. OF 30' OF CLEARANCE FROM NEAREST TRAFFIC LANE IS REQUIRED FOR BORE PITS.

LEGEND

P.E.R.W. PERMANENT EASEMENT & RIGHT OF WAY
ROW RIGHT OF WAY
F.M. FARM TO MARKET
MIN. MINIMUM
TOB TOP OF BANK
EXISTING PIPELINE
P POWER LINE
X FENCE
● POWER POLE

FOSTER FARMS, INC.
A TEXAS CORPORATION
REMAINDER OF A
CALLED 3063.45 ACRES
VOLUME 362, PAGE 549
D. R. B. C. T.

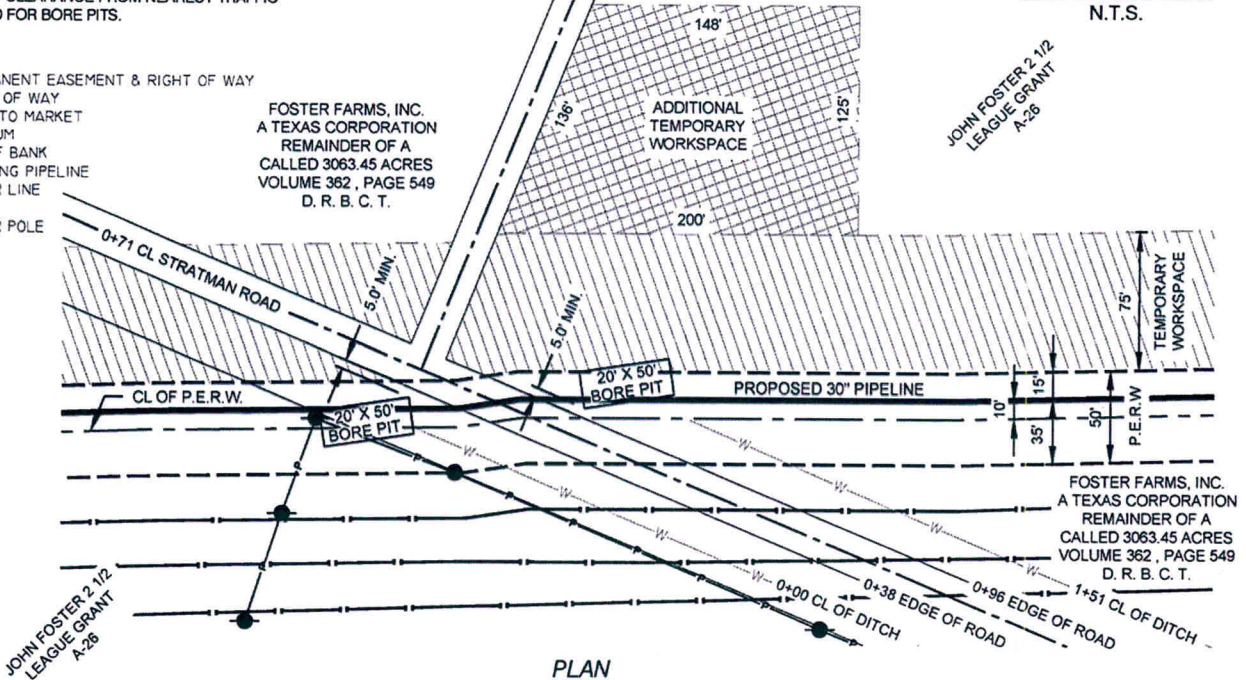
LOCATION COORDINATES

1. X=2637996.28
Y=10764040.85
2. X=2638008.23
Y=10764040.66
3. X=2638019.96
Y=10764019.92

VICINITY MAP

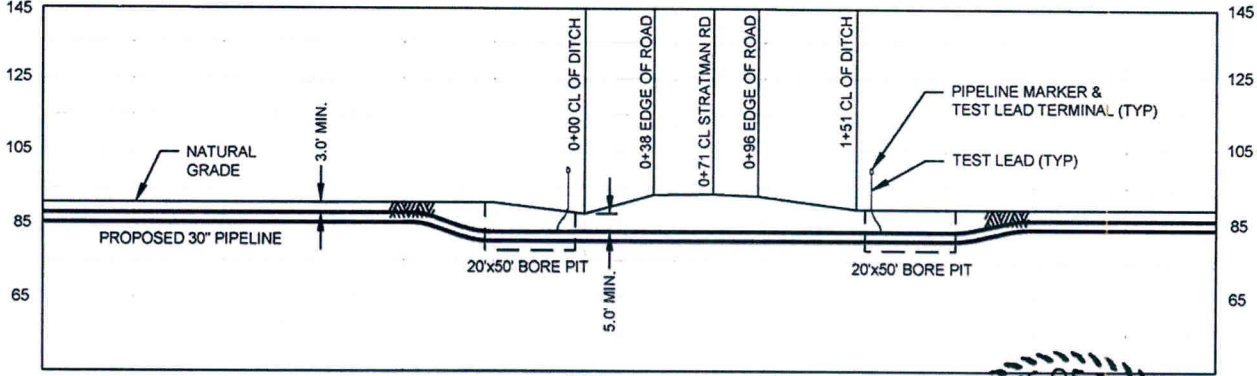
N.T.S.

JOHN FOSTER 2 1/2
LEAGUE GRANT
A-26



PLAN

1" = 100'



PROFILE

1" = 100' H
1" = 50' V

PIPE SPECIFICATIONS

CONTENTS: CRUDE OIL
DESIGN FACTOR: 0.72
CARRIER PIPE: 30" O.D., 0.618" W.L., API 5L X70, DSAW, PSL2
COATING: 15-22 MILS FBE & 30-40 MILS ARO
M.O.P.: 1,440 PSIG
PIPELINE CATHODICALLY PROTECTED
METHOD OF INSTALLATION: CONVENTIONAL BORE

NOTE:

1. DATUM BASED ON TEXAS STATE PLANE COORDINATE SYSTEM, UTM NAD 83, ZONE 14N, NAVD 88, DERIVED FROM GPS OBSERVATION.
2. EXISTING UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS GENERATED FROM PREVIOUS MAPS AND SURVEY. CONTRACTOR SHALL VERIFY EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES IN AREA OF WORK PRIOR TO CONSTRUCTION AND CALL TEXAS ONE CALL SYSTEM AT 1-800-245-4545 AND ALL OTHER UTILITY COMPANIES AT LEAST 2 WORKING DAYS (48 HOURS) PRIOR TO CONSTRUCTION

SCALE IN FEET



6/13/13

I, Daniel R. Alcorn, Registered Professional Engineer in the State of Texas, P.E. No. 79234, an employee of BILFINGER TEPSCO INC., Texas Firm No. F-4669, have reviewed the pipeline design and pipe testing specifications of this permit and have found them accurate and suitable for the proposed project. Pipeline routing is based on information provided by others. Actual construction routing, both open cut and bore sections, may vary as required for safety, constructability, or for other engineering reasons. ALL UNDERGROUND UTILITIES, WHETHER SHOWN ON THESE DRAWINGS OR NOT, SHOULD BE LOCATED BY THE CONTRACTOR AT LEAST 48 HOURS PRIOR TO DIGGING, TRENCHING, OR BORING.

I attest ONLY to the engineering aspects of the pipeline, and DO NOT attest to the accuracy, completeness, usefulness, or correctness of other aspects of the project, including but not limited to, survey, right-of-way, property ownership determination, and location of existing facilities that are the responsibility of other parties.

NO.	DATE	REVISION	BY	CHK	APPR	APPR	APPR
A	02/28/13	ISSUED FOR REVIEW	MP	JCL	JAW		



DRAWING ISSUES	CONSTRUCTION	LAST ORG.	DATE	REV.
BIDS				
APPROVAL				
INFORMATION				
ISSUED FOR:	SIGNATURE	DATE	REV.	
DRAWN:	MP	DATE: 02/28/13		
CHECKED:	JCL	DATE: 02/28/13		
ENGINEER:		DATE:		
W.E.I.:		DATE:		
CLIENT:		DATE:		

ROAD CROSSING PERMIT

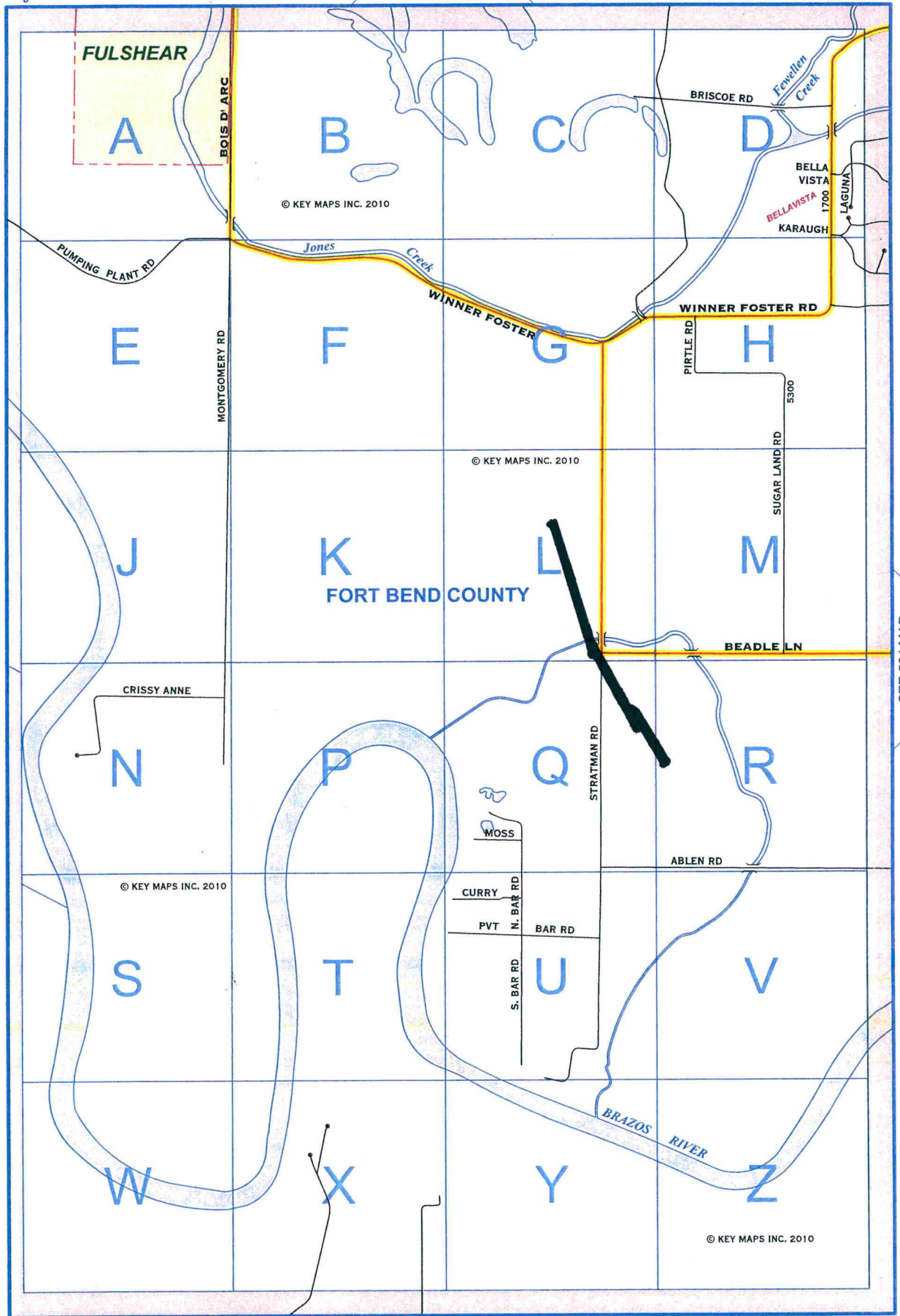
SEAWAY CRUDE PL COMPANY LLC
STRATMAN ROAD
FORT BEND COUNTY, TX

SCALE	PROJECT NO.	DRAWING NO.	SHEET	REV.
1"=100"	52068	TX-FB-0128.00010	1 OF 1	A



SEE 523 MAP

563



SEE 564 MAP

0 1/4 1/2 3/4 1 Mile

SEE 603 MAP

© KEY MAPS INC. 2010

FORT BEND COUNTY, TEXAS

THE CONTRACTOR MUST NOTIFY COUNTY ENGINEERING 48 HOURS PRIOR TO CONSTRUCTION GIVING THE NAME OF THE CONSTRUCTION COMPANY, THE NAME AND NUMBER OF AN ON SITE SUPERVISOR, AND THE INTENDED START DATE. THE CONTRACTOR MUST NOTIFY THE PERMIT AGENT 48 HOURS PRIOR TO CONSTRUCTION TO ACCESS THE "UIR" PROGRAM AND GIVE 48 HOURS NOTICE INCLUDING IN THE COMMENTS BOX - THE CONSTRUCTION COMPANY NAME, CONTACT PERSON'S NAME, CELL NUMBER, AND START DATE.

ALL ROAD BORES SHALL BE ACCOMPLISHED WITH THE CONVENTIONAL DRY AUGER, UNLESS OTHERWISE APPROVED BY A COUNTY ENGINEERING INSPECTOR, MAINTENANCE SUPERVISOR, OR AREA ENGINEER.

1. IN CURB/GUTTER STREETS, PIPELINE IS TO BE INSERTED AT A 2' MIN. BELOW THE SLAB.

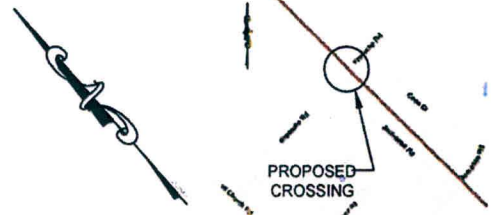
2. ALL MINIMUM DEPTH REQUIREMENTS MEASURED AT THE TOP OF PIPE OR CASING.

3. A MIN. OF 30' OF CLEARANCE FROM NEAREST TRAFFIC LANE IS REQUIRED FOR BORE PITS.

LEGEND

P.E.R.W. PERMANENT EASEMENT & RIGHT OF WAY
N.T.S. NOT TO SCALE
ROW RIGHT OF WAY
F.M. FARM TO MARKET
MIN. MINIMUM
EXISTING PIPELINE
P POWER LINE
X FENCE
● POWER POLE

TX-FB-0137.00000
SYAD MUDASSIR HUSSIN
CALLED 104.823 ACRES
C.C.F. No. 2005001202
O.P.R.F.B.C.T.



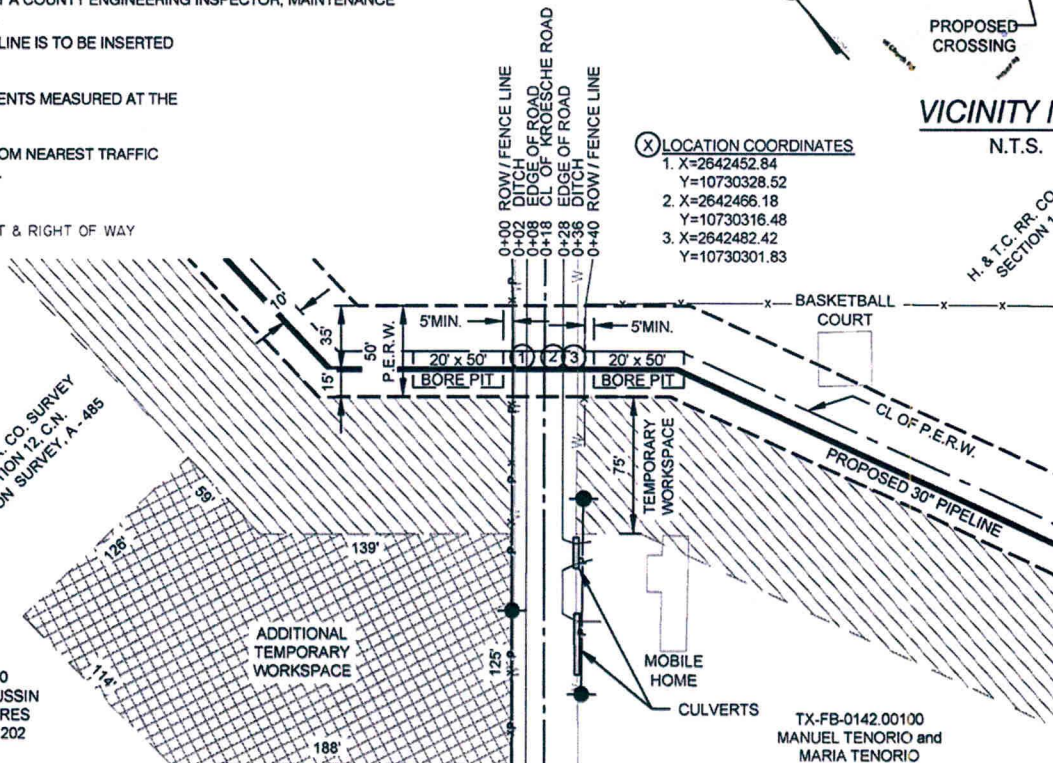
VICINITY MAP

N.T.S.

LOCATION COORDINATES

1. X=2642452.84
Y=10730328.52
2. X=2642466.18
Y=10730316.48
3. X=2642482.42
Y=10730301.83

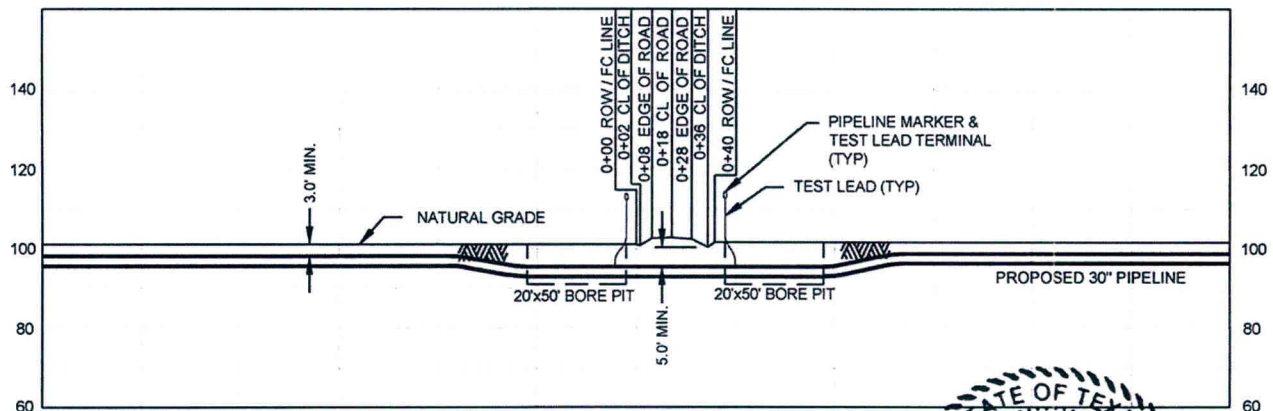
H. & T.C. RR. CO. SURVEY
SECTION 11, A-212



PLAN

1" = 100'

TX-FB-0142.00100
MANUEL TENORIO and
MARIA TENORIO
CALLED 2.66 ACRES
C.C.F. No. 2012090517
O.P.R.F.B.C.T.



IMPROVED ROAD - BORE METHOD

PROFILE

1" = 100' H
1" = 50' V

PIPE SPECIFICATIONS

CONTENTS: CRUDE OIL
DESIGN FACTOR: 0.72
CARRIER PIPE: 30" O.D., 0.618" W.T., API 5L X70, DSAW, PSL2
COATING: 15-22 MILS FBE & 30-40 MILS ARO
M.O.P.: 1,440 PSIG
PIPELINE CATHODICALLY PROTECTED
METHOD OF INSTALLATION: CONVENTIONAL BORE

NOTE:

1. DATUM BASED ON TEXAS STATE PLANE COORDINATE SYSTEM, UTM NAD 83, ZONE 14N, NAVD 88, DERIVED FROM GPS OBSERVATION.
2. EXISTING UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS GENERATED FROM PREVIOUS MAPS AND SURVEY. CONTRACTOR SHALL VERIFY EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES IN AREA OF WORK PRIOR TO CONSTRUCTION AND CALL TEXAS ONE CALL SYSTEM AT 1-800-245-4545 AND ALL OTHER UTILITY COMPANIES AT LEAST 2 WORKING DAYS (48 HOURS) PRIOR TO CONSTRUCTION

SCALE IN FEET



6/13/13

I, Daniel R. Alcorn, Registered Professional Engineer in the State of Texas, P.E. No. 79234, an employee of BILFINGER TEPSCO INC., Texas Firm No. F-4669, have reviewed the pipeline design and pipe testing specifications of this permit and have found them accurate and suitable for the proposed project. Pipeline routing is based on information provided by others. Actual construction routing, both open cut and bore sections, may vary as required for safety, constructability, or for other engineering reasons. ALL UNDERGROUND UTILITIES, WHETHER SHOWN ON THESE DRAWINGS OR NOT, SHOULD BE LOCATED BY THE CONTRACTOR AT LEAST 48 HOURS PRIOR TO DIGGING, TRENCHING, OR BORING.

I attest ONLY to the engineering aspects of the pipeline, and DO NOT attest to the accuracy, completeness, usefulness, or correctness of other aspects of the project, including but not limited to, survey, right-of-way, property ownership determination, and location of existing facilities that are the responsibility of other parties.

NO.	DATE	REVISION	BY	CHK	APPR	APPR	APPR
A	11/16/12	ISSUED FOR REVIEW	SN	JCL	JAW		

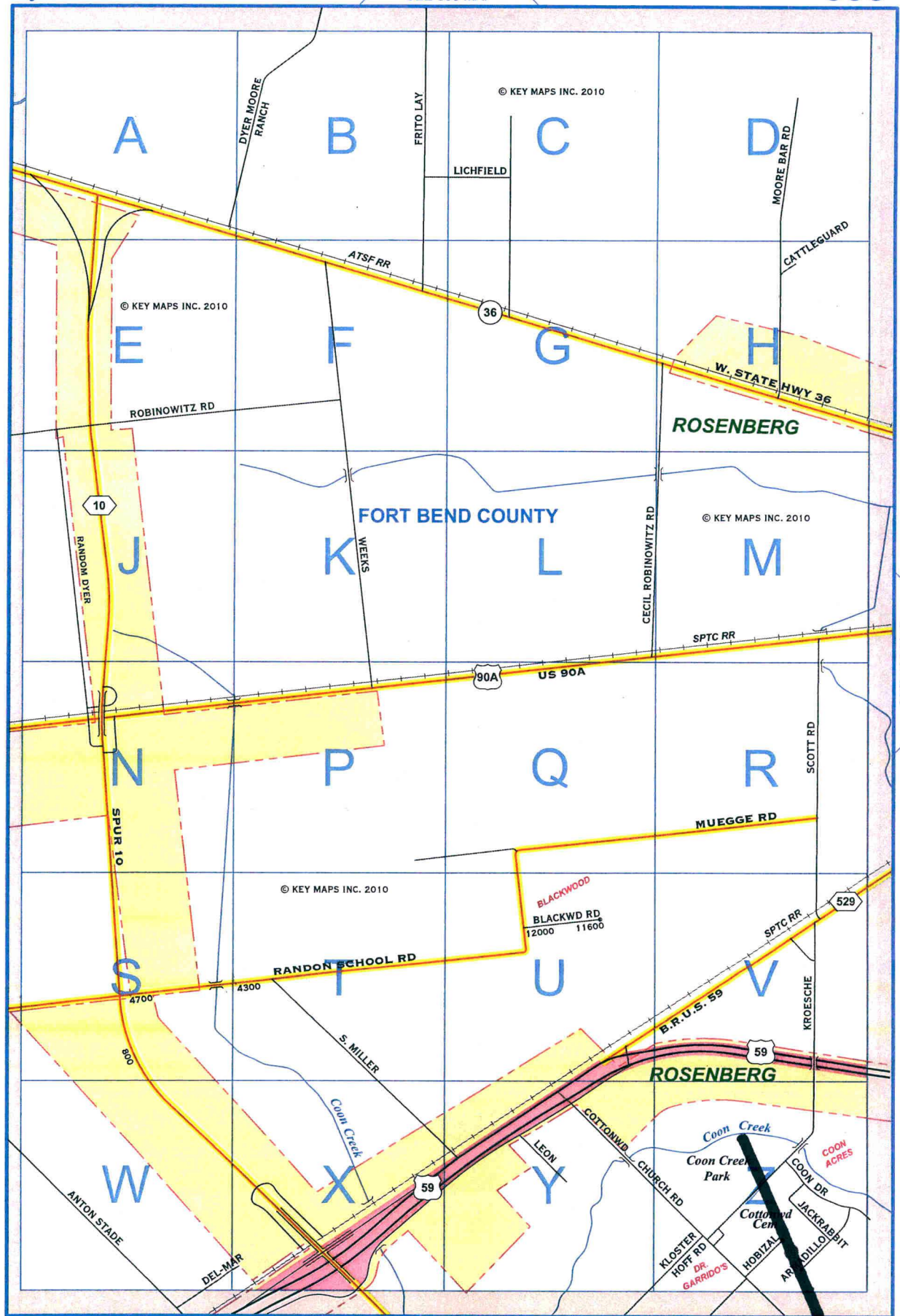
Seaway Crude
PIPELINE COMPANY LLC

WILLBROS ENGINEERS
(U.S.) LLC
4400 Post Oak Parkway
Houston, TX, 77027
(713) 403-8000 TX-F-82

DRAWING ISSUES	CONSTRUCTION	BIDS	APPROVAL	INFORMATION	ISSUED FOR:	SIGNATURE	DATE	REV.
	LAST ORG.	LAST ORG.	LAST ORG.	LAST ORG.	DRAWN:	SN	DATE: 11/16/12	
					CHECKED:	JCL	DATE: 11/16/12	
					ENGINEER:		DATE:	
					W.E.I.:		DATE:	
					CLIENT:		DATE:	
					CLIENT:		DATE:	

ROAD CROSSING PERMIT
SEAWAY CRUDE PL COMPANY LLC
KROESCHE ROAD
FORT BEND COUNTY, TX

SCALE	PROJECT NO.	DRAWING NO.	SHEET	REV.
1" = 100'	52068	TX-FB-0137.00110	1 OF 1	A



FORT BEND COUNTY, TEXAS

THE CONTRACTOR MUST NOTIFY COUNTY ENGINEERING 48 HOURS PRIOR TO CONSTRUCTION GIVING THE NAME OF THE CONSTRUCTION COMPANY, THE NAME AND NUMBER OF AN ON SITE SUPERVISOR, AND THE INTENDED START DATE. THE CONTRACTOR MUST NOTIFY THE PERMIT AGENT 48 HOURS PRIOR TO CONSTRUCTION TO ACCESS THE "UIR" PROGRAM AND GIVE 48 HOURS NOTICE INCLUDING IN THE COMMENTS BOX - THE CONSTRUCTION COMPANY NAME, CONTACT PERSON'S NAME, CELL NUMBER, AND START DATE.

ALL ROAD BORES SHALL BE ACCOMPLISHED WITH THE CONVENTIONAL DRY AUGER, UNLESS OTHERWISE APPROVED BY A COUNTY ENGINEERING INSPECTOR, MAINTENANCE SUPERVISOR, OR AREA ENGINEER.

1. IN CURB/GUTTER STREETS, PIPELINE IS TO BE INSERTED AT A 2' MIN. BELOW THE SLAB.
2. ALL MINIMUM DEPTH REQUIREMENTS MEASURED AT THE TOP OF PIPE OR CASING.
3. A MIN. OF 30' OF CLEARANCE FROM NEAREST TRAFFIC LANE IS REQUIRED FOR BORE PITS.

LEGEND

P.E.R.W. PERMANENT EASEMENT & RIGHT OF WAY
N.T.S. NOT TO SCALE
ROW RIGHT OF WAY
F.M. FARM TO MARKET
MIN. MINIMUM
EXISTING PIPELINE
POWER LINE
FENCE
POWER POLE
TELEPHONE PEDESTAL

PROPOSED CROSSING

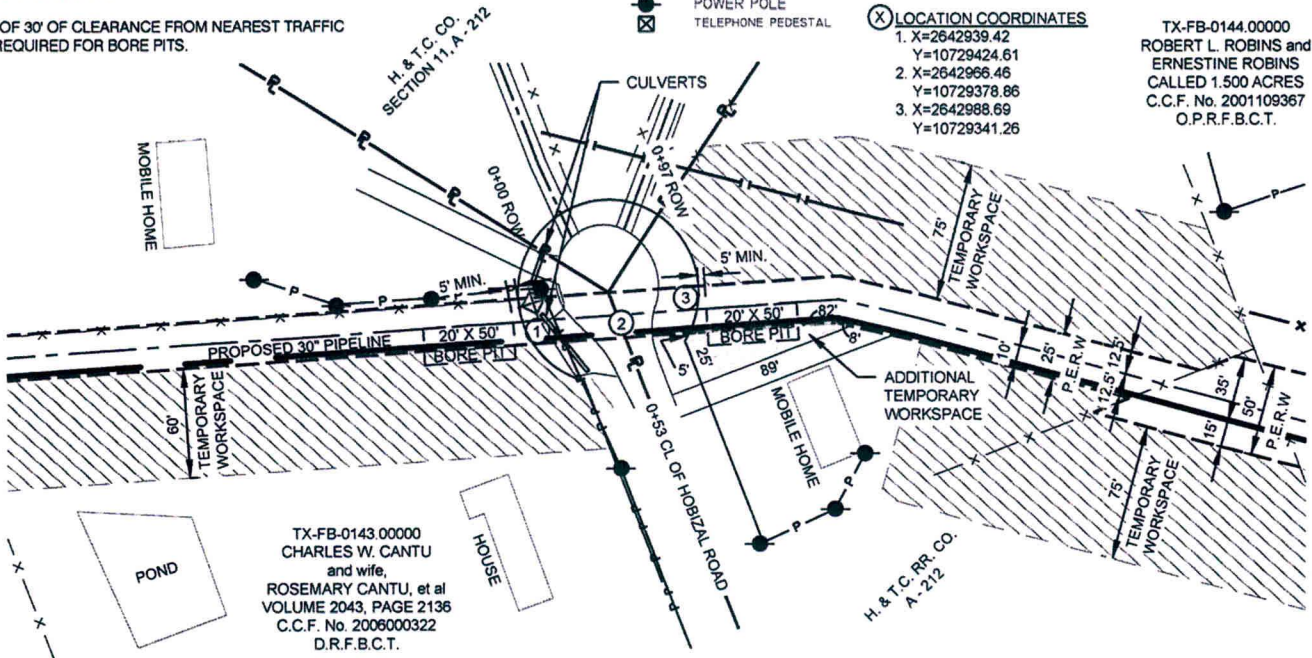
VICINITY MAP

N.T.S.

LOCATION COORDINATES

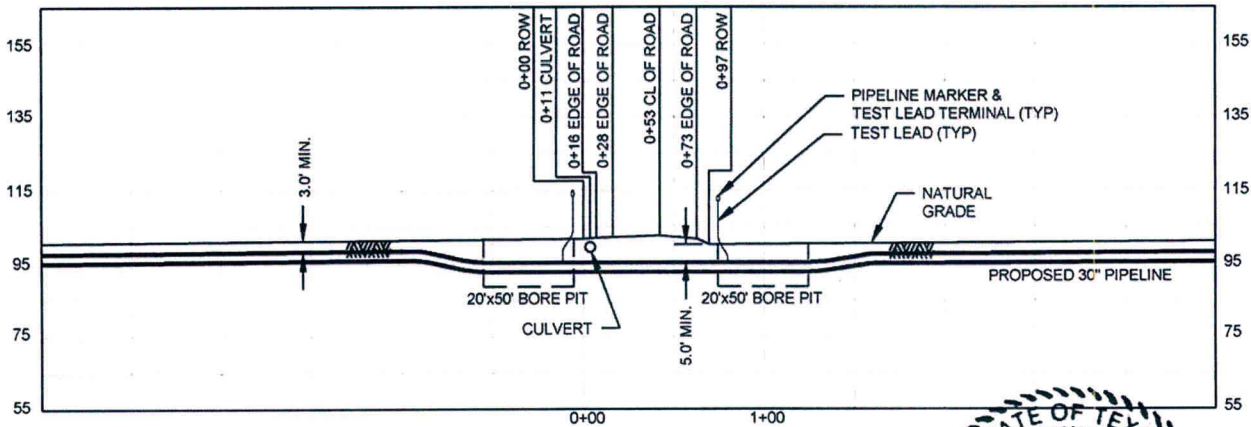
1. X=2642939.42
Y=10729424.61
2. X=2642966.46
Y=10729378.86
3. X=2642988.69
Y=10729341.26

TX-FB-0144.00000
ROBERT L. ROBINS and
ERNESTINE ROBINS
CALLED 1.500 ACRES
C.C.F. No. 2001109367
O.P.R.F.B.C.T.



PLAN

1" = 100'



PIPE SPECIFICATIONS

CONTENTS: CRUDE OIL
DESIGN FACTOR: 0.72
CARRIER PIPE: 30"Ø, 0.618" w.t., API 5L X70, DSAW, PSL2
COATING: 15-22 MILS FBE & 30-40 MILS ARO
M.O.P.: 1,440 PSIG
PIPELINE CATHODICALLY PROTECTED
METHOD OF INSTALLATION: CONVENTIONAL BORE

IMPROVED ROAD - BORE METHOD

PROFILE

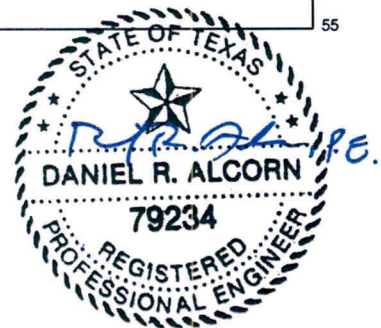
1" = 100' H

1" = 50' V

NOTE:

1. DATUM BASED ON TEXAS STATE PLANE COORDINATE SYSTEM, UTM NAD 83, ZONE 14N, NAVD 88, DERIVED FROM GPS OBSERVATION.
2. EXISTING UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS GENERATED FROM PREVIOUS MAPS AND SURVEY. CONTRACTOR SHALL VERIFY EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES IN AREA OF WORK PRIOR TO CONSTRUCTION AND CALL TEXAS ONE CALL SYSTEM AT 1-800-245-4545 AND ALL OTHER UTILITY COMPANIES AT LEAST 2 WORKING DAYS (48 HOURS) PRIOR TO CONSTRUCTION

SCALE IN FEET



I, Daniel R. Alcorn, Registered Professional Engineer in the State of Texas, P.E. No. 79234, an employee of BILFINGER TEPSCO INC., Texas Firm No. F-4669, have reviewed the pipeline design and pipe testing specifications of this permit and have found them accurate and suitable for the proposed project. Pipeline routing is based on information provided by others. Actual construction routing, both open cut and bore sections, may vary as required for safety, constructability, or for other engineering reasons. ALL UNDERGROUND UTILITIES, WHETHER SHOWN ON THESE DRAWINGS OR NOT, SHOULD BE LOCATED BY THE CONTRACTOR AT LEAST 48 HOURS PRIOR TO DIGGING, TRENCHING, OR BORING.

I attest ONLY to the engineering aspects of the project, and DO NOT attest to the accuracy, completeness, usefulness, or correctness of other aspects of the project, including but not limited to, survey, right-of-way, property ownership determination, and location of existing facilities that are the responsibility of other parties.

NO.	DATE	REVISION	BY	CHK	APPR	APPR	APPR
A	11/26/12	ISSUED FOR REVIEW	MP	JCL	JAW		

Seaway Crude
PIPELINE COMPANY LLC

WILLBROS ENGINEERS (U.S.) LLC
4400 Post Oak Parkway
Houston, TX. 77027
(713) 403-8000 TX-F-82

DRAWING ISSUES	CONSTRUCTION	LAST	DATE
BIDS	ORIG.		
APPROVAL	ORIG.		
INFORMATION	ORIG.		
ISSUED FOR:	SIGNATURE	DATE	REV.
DRAWN:	MP	DATE: 11/26/12	
CHECKED:	JCL	DATE: 11/26/12	
ENGINEER:		DATE:	
W.E.I.:		DATE:	
CLIENT:		DATE:	
CLIENT:		DATE:	

ROAD CROSSING PERMIT

SEAWAY CRUDE PL COMPANY LLC
HOBIZAL ROAD
FORT BEND COUNTY, TX

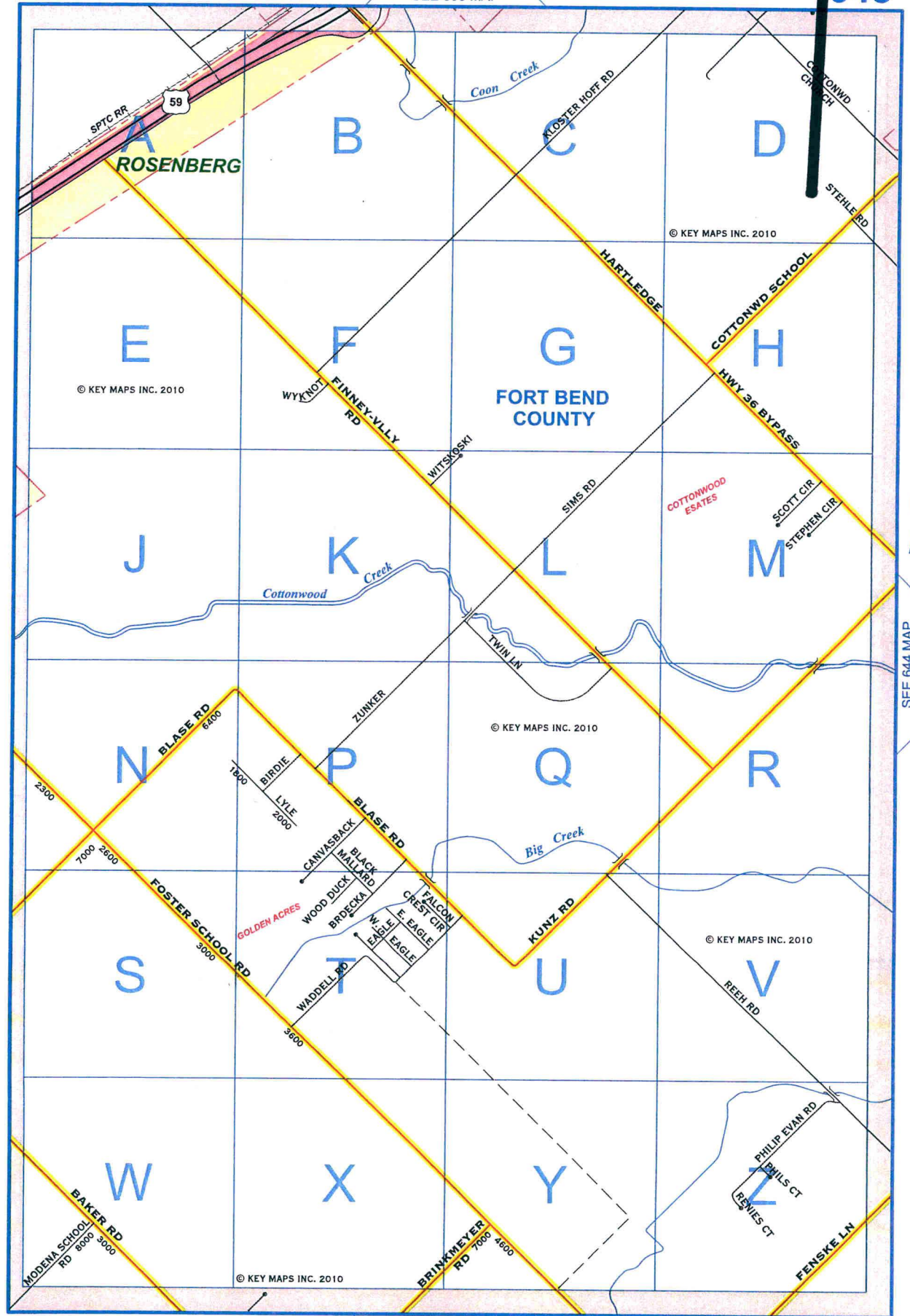
SCALE	PROJECT NO.	DRAWING NO.	SHEET	REV.
1"=100'	52068	TX-FB-0144.00010	1 OF 1	A





SEE 603 MAP

643



0 1/4 1/2 3/4 1 Mile

SEE 683 MAP

© KEY MAPS INC. 2010

FORT BEND COUNTY, TEXAS

THE CONTRACTOR MUST NOTIFY COUNTY ENGINEERING 48 HOURS PRIOR TO CONSTRUCTION GIVING THE NAME OF THE CONSTRUCTION COMPANY, THE NAME AND NUMBER OF AN ON SITE SUPERVISOR, AND THE INTENDED START DATE. THE CONTRACTOR MUST NOTIFY THE PERMIT AGENT 48 HOURS PRIOR TO CONSTRUCTION TO ACCESS THE "UIR" PROGRAM AND GIVE 48 HOURS NOTICE INCLUDING IN THE COMMENTS BOX - THE CONSTRUCTION COMPANY NAME, CONTACT PERSONS NAME, CELL NUMBER, AND START DATE. ALL ROAD BORES SHALL BE ACCOMPLISHED WITH THE CONVENTIONAL DRY AUGER, UNLESS OTHERWISE APPROVED BY A COUNTY ENGINEERING INSPECTOR, MAINTENANCE SUPERVISOR, OR AREA ENGINEER.

1. IN CURB/GUTTER STREETS, PIPELINE IS TO BE INSERTED AT A 2' MIN. BELOW THE SLAB.

2. ALL MINIMUM DEPTH REQUIREMENTS MEASURED AT THE TOP OF PIPE OR CASING.

3. A MIN. OF 30' OF CLEARANCE FROM NEAREST TRAFFIC LANE IS REQUIRED FOR BORE PITS.

LEGEND

P.E.R.W. PERMANENT EASEMENT & RIGHT OF WAY
N.T.S. NOT TO SCALE
ROW RIGHT OF WAY
EXISTING PIPELINE
P POWER LINE
X FENCE

TX-FB-0152.00000
BRETT MILLER EXEMPT
LIFETIME TRUST, et al
CALLED 146.27 ACRES
C.C.F. No. 2012001721
O.P.R.F.B.C.T.
DESCRIBED AS 152.77 ACRES
IN VOLUME 302, PAGE 401
D.R.F.B.C.T.

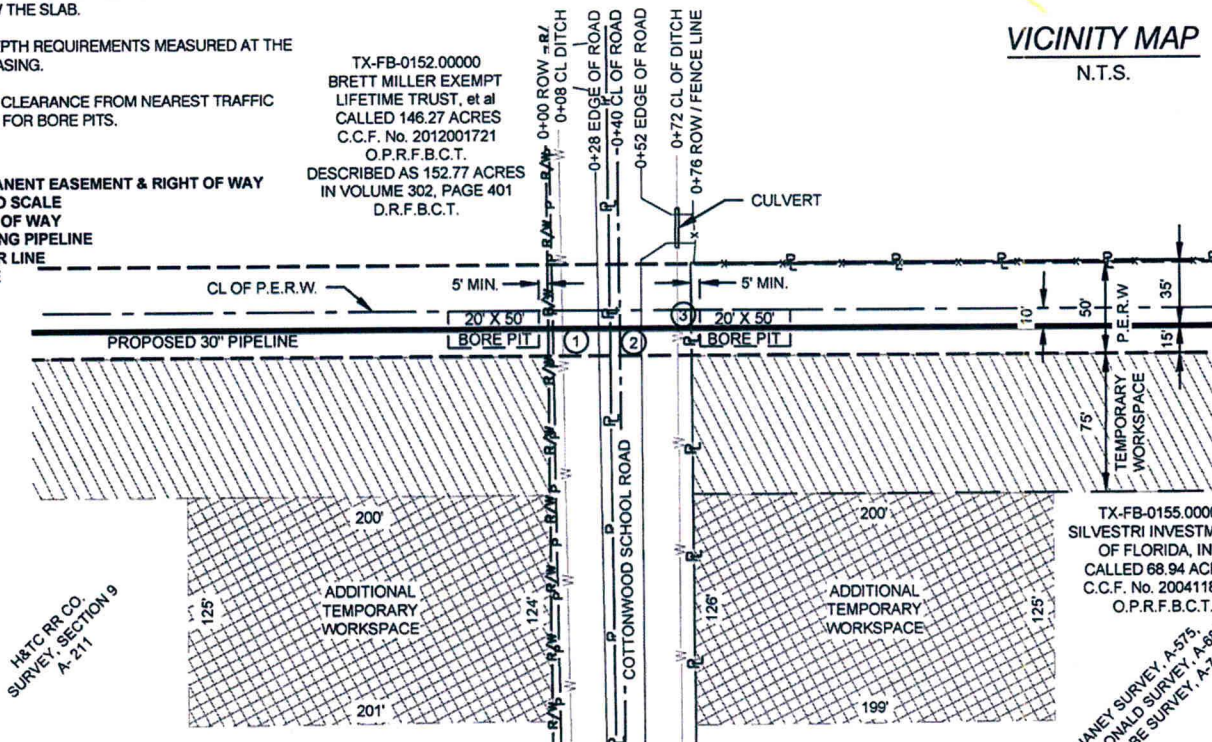
LOCATION COORDINATES

1. X=2643946.26
Y=10724613.53
2. X=2643965.56
Y=10724575.55
3. X=2644004.77
Y=10724560.01

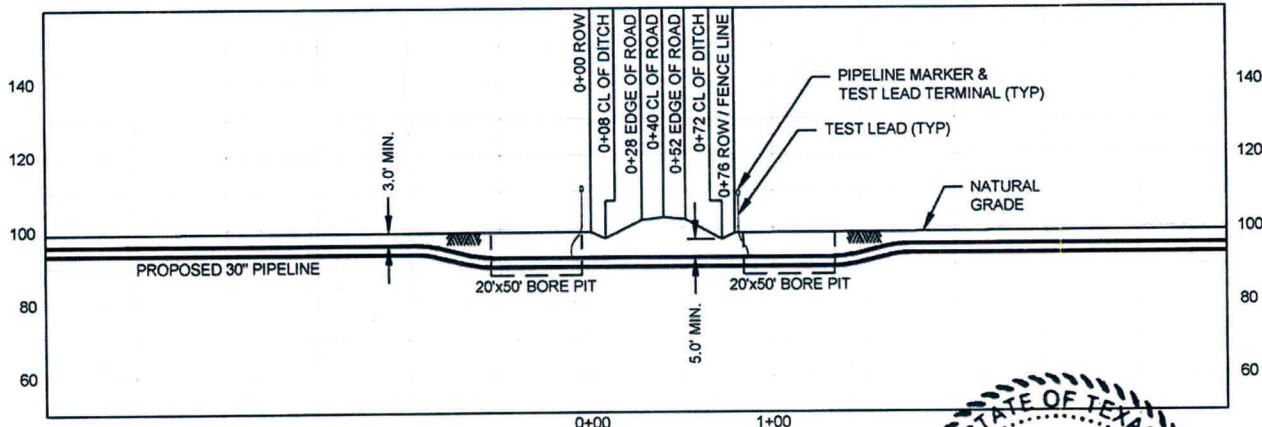
PROPOSED CROSSING

VICINITY MAP

N.T.S.



PLAN
1" = 100'



PIPE SPECIFICATIONS

CONTENTS: CRUDE OIL
DESIGN FACTOR: 0.72
CARRIER PIPE: 30"Ø, 0.618" w.t., API 5L X70, DSAW, PSL2
COATING: 15-22 MILS FBE & 30-40 MILS ARO
M.O.P.: 1,440 PSIG
PIPELINE CATHODICALLY PROTECTED
METHOD OF INSTALLATION: CONVENTIONAL BORE

IMPROVED ROAD - BORE METHOD

PROFILE

1" = 100' H
1" = 50' V

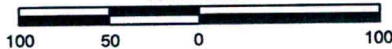


6/13/13

NOTE:

1. DATUM BASED ON TEXAS STATE PLANE COORDINATE SYSTEM, UTM NAD 83, ZONE 14N, NAVD 88, DERIVED FROM GPS OBSERVATION.
2. EXISTING UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS GENERATED FROM PREVIOUS MAPS AND SURVEY. CONTRACTOR SHALL VERIFY EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES IN AREA OF WORK PRIOR TO CONSTRUCTION AND CALL TEXAS ONE CALL SYSTEM AT 1-800-245-4545 AND ALL OTHER UTILITY COMPANIES AT LEAST 2 WORKING DAYS (48 HOURS) PRIOR TO CONSTRUCTION

SCALE IN FEET



I, Daniel R. Alcorn, Registered Professional Engineer in the State of Texas, P.E. No. 79234, an employee of BILFINGER TEPSCO INC., Texas Firm No. F-4669, have reviewed the pipeline design and pipe testing specifications of this permit and have found them accurate and suitable for the proposed project. Pipeline routing is based on information provided by others. Actual construction routing, both open cut and bore sections, may vary as required for safety, constructability, or for other engineering reasons. ALL UNDERGROUND UTILITIES, WHETHER SHOWN ON THESE DRAWINGS OR NOT, SHOULD BE LOCATED BY THE CONTRACTOR AT LEAST 48 HOURS PRIOR TO DIGGING, TRENCHING, OR BORING.

I attest ONLY to the engineering aspects of the pipeline, and DO NOT attest to the accuracy, completeness, usefulness, or correctness of other aspects of the project, including but not limited to, survey, right-of-way, property ownership determination, and location of existing facilities that are the responsibility of other parties.

NO.	DATE	REVISION	BY	CHK	APPR	APPR	APPR
A	11/07/12	ISSUED FOR REVIEW	VG	JCL	JAW		



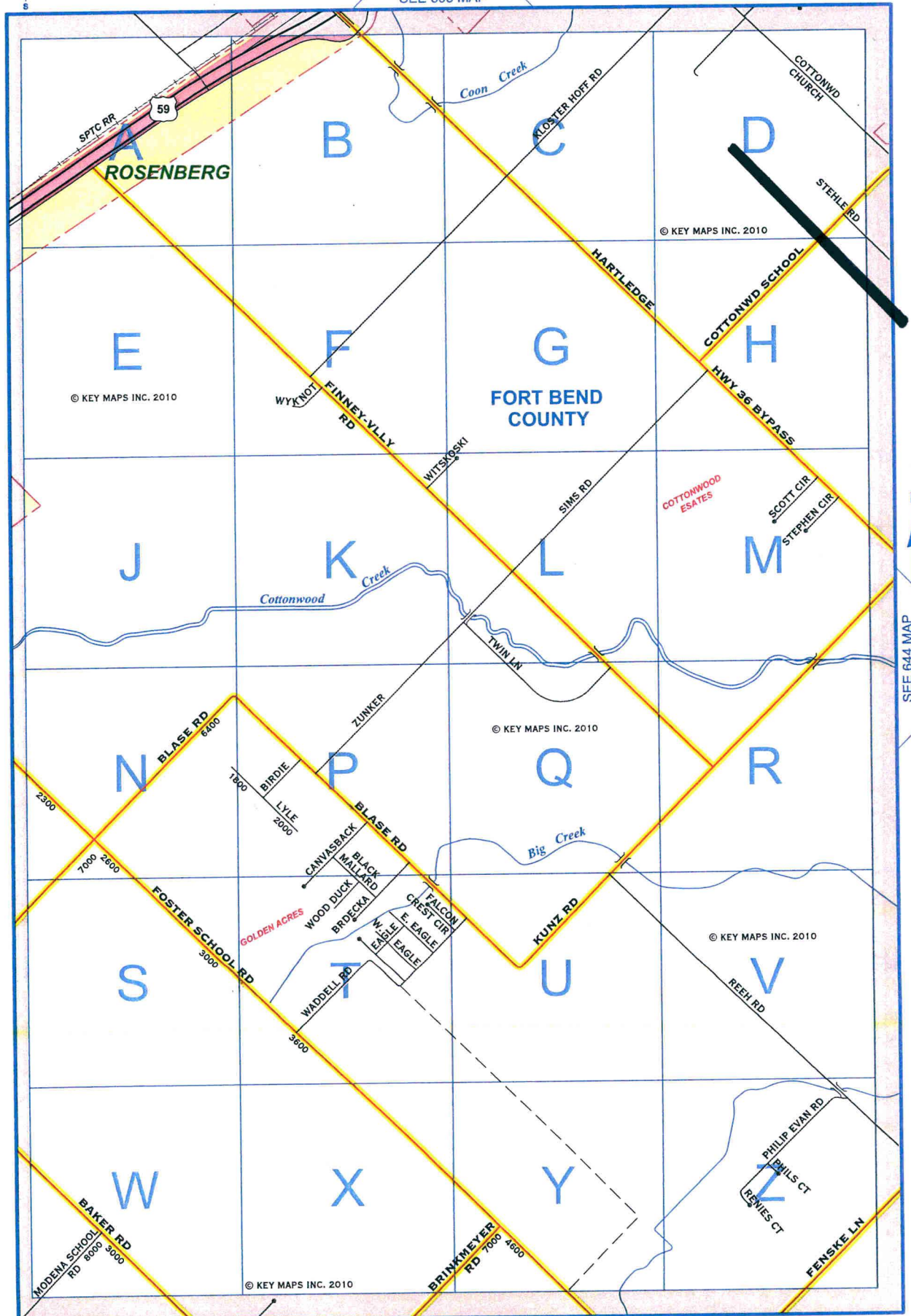
DRAWING ISSUES	CONSTRUCTION	LAST	
	BIDS	LAST	
	APPROVAL	LAST	
	INFORMATION	LAST	
DRAWING APPROVALS	ISSUED FOR:	SIGNATURE	DATE
	DRAWN:	VG	DATE: 11/07/12
	CHECKED:	JCL	DATE: 11/07/12
	ENGINEER:		DATE:
	W.E.I.:	DATE:	
	CLIENT:	DATE:	
	CLIENT:	DATE:	

ROAD CROSSING PERMIT
SEAWAY CRUDE PL COMPANY LLC
COTTONWOOD SCHOOL ROAD
FORT BEND COUNTY, TX

SCALE	PROJECT NO.	DRAWING NO.	SHEET	REV.
1" = 100'	52068	TX-FB-0152.00010	1 OF 1	A



SEE 603 MAP



SEE 683 MAP

FORT BEND COUNTY, TEXAS

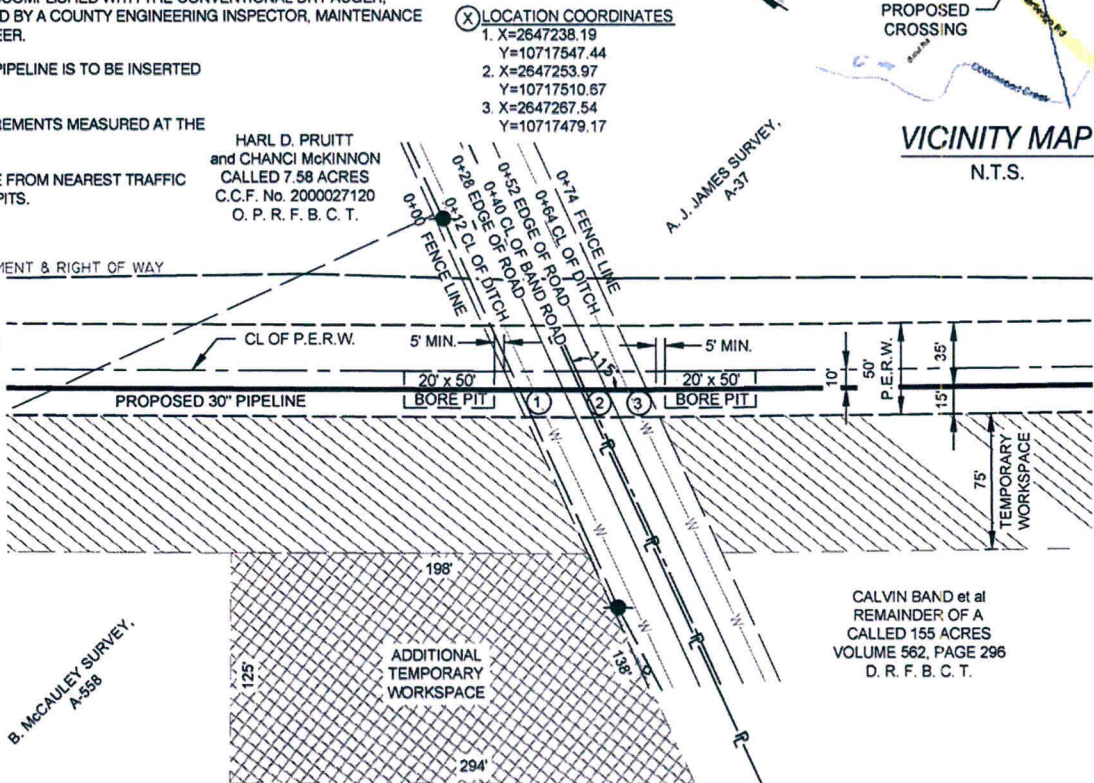
THE CONTRACTOR MUST NOTIFY COUNTY ENGINEERING 48 HOURS PRIOR TO CONSTRUCTION GIVING THE NAME OF THE CONSTRUCTION COMPANY, THE NAME AND NUMBER OF AN ON SITE SUPERVISOR, AND THE INTENDED START DATE. THE CONTRACTOR MUST NOTIFY THE PERMIT AGENT 48 HOURS PRIOR TO CONSTRUCTION TO ACCESS THE "UIR" PROGRAM AND GIVE 48 HOURS NOTICE INCLUDING IN THE COMMENTS BOX - THE CONSTRUCTION COMPANY NAME, CONTACT PERSON'S NAME, CELL NUMBER, AND START DATE.

ALL ROAD BORES SHALL BE ACCOMPLISHED WITH THE CONVENTIONAL DRY AUGER, UNLESS OTHERWISE APPROVED BY A COUNTY ENGINEERING INSPECTOR, MAINTENANCE SUPERVISOR, OR AREA ENGINEER.

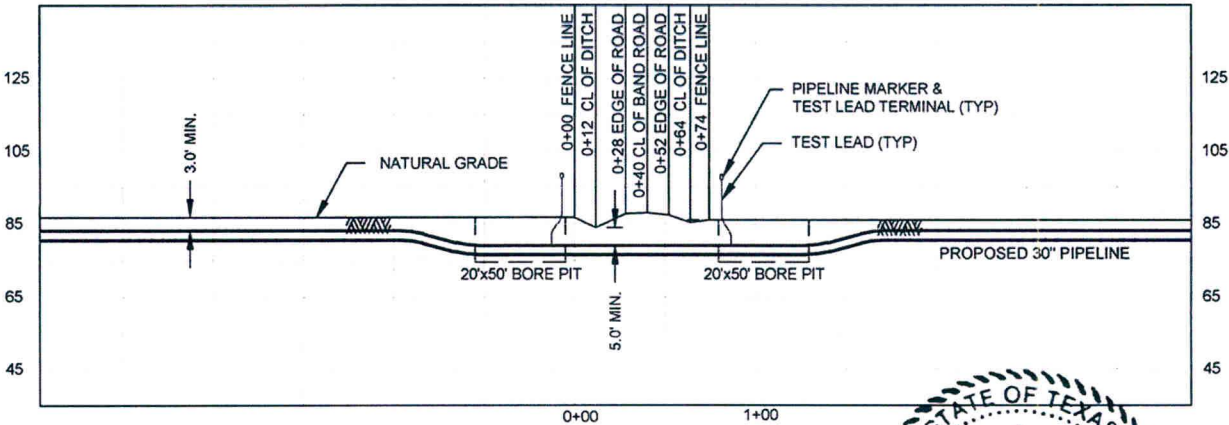
1. IN CURB/GUTTER STREETS, PIPELINE IS TO BE INSERTED AT A 2' MIN. BELOW THE SLAB.
2. ALL MINIMUM DEPTH REQUIREMENTS MEASURED AT THE TOP OF PIPE OR CASING.
3. A MIN. OF 30' OF CLEARANCE FROM NEAREST TRAFFIC LANE IS REQUIRED FOR BORE PITS.

LEGEND

P.E.R.W. PERMANENT EASEMENT & RIGHT OF WAY
ROW RIGHT OF WAY
F.M. FARM TO MARKET
MIN. MINIMUM
EXISTING PIPELINE
P POWER LINE
FENCE
POWER POLE



PLAN
1" = 100'



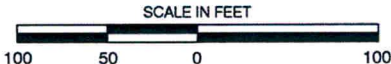
IMPROVED ROAD - BORE METHOD
PROFILE
1" = 100' H
1" = 50' V

PIPE SPECIFICATIONS

CONTENTS: CRUDE OIL
DESIGN FACTOR: 0.72
CARRIER PIPE: 30"Ø, 0.618" w.t., API 5L X70, DSAW, PSL2
COATING: 15-22 MILS FBE & 30-40 MILS ARO
M.O.P.: 1,440 PSIG
PIPELINE CATHODICALLY PROTECTED
METHOD OF INSTALLATION: CONVENTIONAL BORE

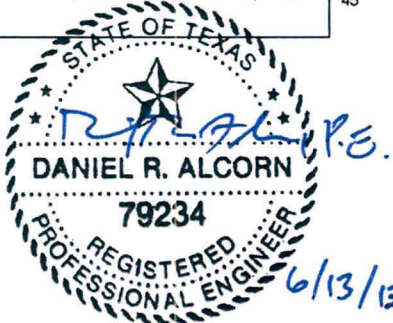
NOTE:

1. DATUM BASED ON TEXAS STATE PLANE COORDINATE SYSTEM, UTM NAD 83, ZONE 14N, NAVD 88, DERIVED FROM GPS OBSERVATION.
2. EXISTING UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS GENERATED FROM PREVIOUS MAPS AND SURVEY. CONTRACTOR SHALL VERIFY EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES IN AREA OF WORK PRIOR TO CONSTRUCTION AND CALL TEXAS ONE CALL SYSTEM AT 1-800-245-4545 AND ALL OTHER UTILITY COMPANIES AT LEAST 2 WORKING DAYS (48 HOURS) PRIOR TO CONSTRUCTION



I, Daniel R. Alcorno, Registered Professional Engineer in the State of Texas, P.E. No. 79234, an employee of BILFINGER TEPCO INC., Texas Firm No. F-4669, have reviewed the pipeline design and pipe testing specifications of this permit and have found them accurate and suitable for the proposed project. Pipeline routing is based on information provided by others. Actual construction routing, both open cut and bore sections, may vary as required for safety, constructability, or for other engineering reasons. ALL UNDERGROUND UTILITIES, WHETHER SHOWN ON THESE DRAWINGS OR NOT, SHOULD BE LOCATED BY THE CONTRACTOR AT LEAST 48 HOURS PRIOR TO DIGGING, TRENCHING, OR BORING.

I attest ONLY to the engineering aspects of the pipeline, and DO NOT attest to the accuracy, completeness, usefulness, or correctness of other aspects of the project, including but not limited to, survey, right-of-way, property ownership determination, and location of existing facilities that are the responsibility of other parties.



NO.	DATE	REVISION	BY	CHK	APPR	APPR	APPR
A	11/06/12	ISSUED FOR REVIEW	SN	JCL	JAW		

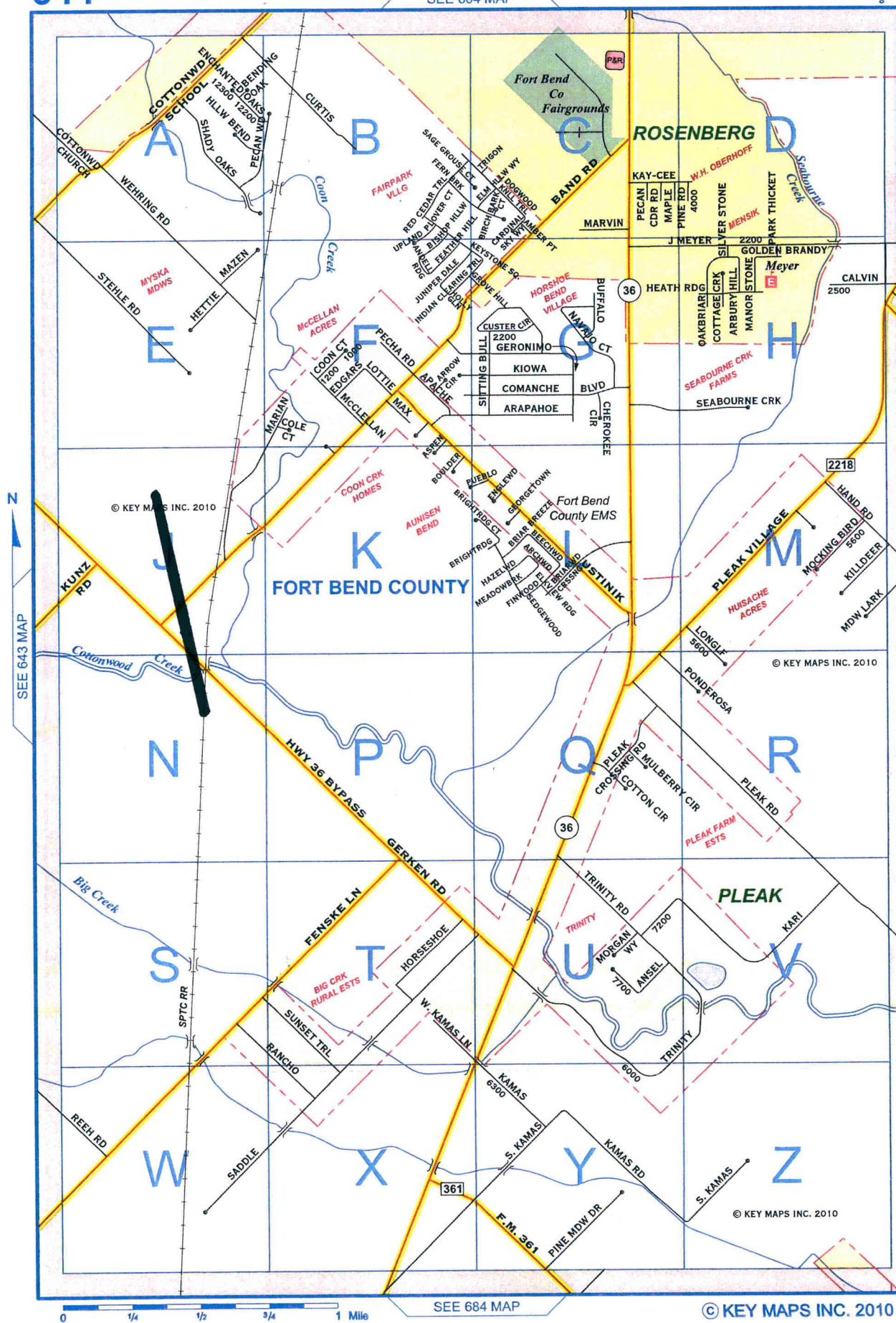
Seaway Crude
PIPELINE COMPANY LLC

WILLBROS ENGINEERS
(U.S.) LLC
4400 Post Oak Parkway
Houston, TX. 77027
(713) 403-8000 TX-F-82

DRAWING ISSUES	CONSTRUCTION	LAST ORIG.			
BIDS	LAST ORIG.				
APPROVAL	LAST ORIG.				
INFORMATION	LAST ORIG.				
ISSUED FOR:	SIGNATURE	DATE	REV.		
DRAWN:	SN	DATE: 11/06/12			
CHECKED:	JCL	DATE: 11/06/12			
ENGINEER:		DATE:			
W.E.I.:		DATE:			
CLIENT:		DATE:			
CLIENT:		DATE:			

ROAD CROSSING PERMIT
SEAWAY CRUDE PL COMPANY LLC
BAND ROAD
FORT BEND COUNTY, TX

SCALE	PROJECT NO.	DRAWING NO.	SHEET	REV.
1"=100'	52068	TX-FB-0164.00010	1 OF 1	A



FORT BEND COUNTY, TEXAS

THE CONTRACTOR MUST NOTIFY COUNTY ENGINEERING 48 HOURS PRIOR TO CONSTRUCTION GIVING THE NAME OF THE CONSTRUCTION COMPANY, THE NAME AND NUMBER OF AN ON SITE SUPERVISOR, AND THE INTENDED START DATE. THE CONTRACTOR MUST NOTIFY THE PERMIT AGENT 48 HOURS PRIOR TO CONSTRUCTION TO ACCESS THE "UIR" PROGRAM AND GIVE 48 HOURS NOTICE INCLUDING IN THE COMMENTS BOX - THE CONSTRUCTION COMPANY NAME, CONTACT PERSON'S NAME, CELL NUMBER, AND START DATE.

ALL ROAD BORES SHALL BE ACCOMPLISHED WITH THE CONVENTIONAL DRY AUGER, UNLESS OTHERWISE APPROVED BY A COUNTY ENGINEERING INSPECTOR, MAINTENANCE SUPERVISOR, OR AREA ENGINEER.

TX - 68-0172 0000

1. IN CURB/GUTTER STREETS, PIPELINE IS TO BE INSERTED AT A 2" MIN. BELOW THE SLAB.
2. ALL MINIMUM DEPTH REQUIREMENTS MEASURED AT THE TOP OF PIPE OR CASING.
3. A MIN. OF 30' OF CLEARANCE FROM NEAREST TRAFFIC LANE IS REQUIRED FOR BORE PITS.

LEGEND

P.E.R.W. PERMANENT EASEMENT & RIGHT OF WAY
N.T.S. NOT TO SCALE
ROW RIGHT OF WAY
EXISTING PIPELINE
P POWER LINE
X FENCE
POWER POLE

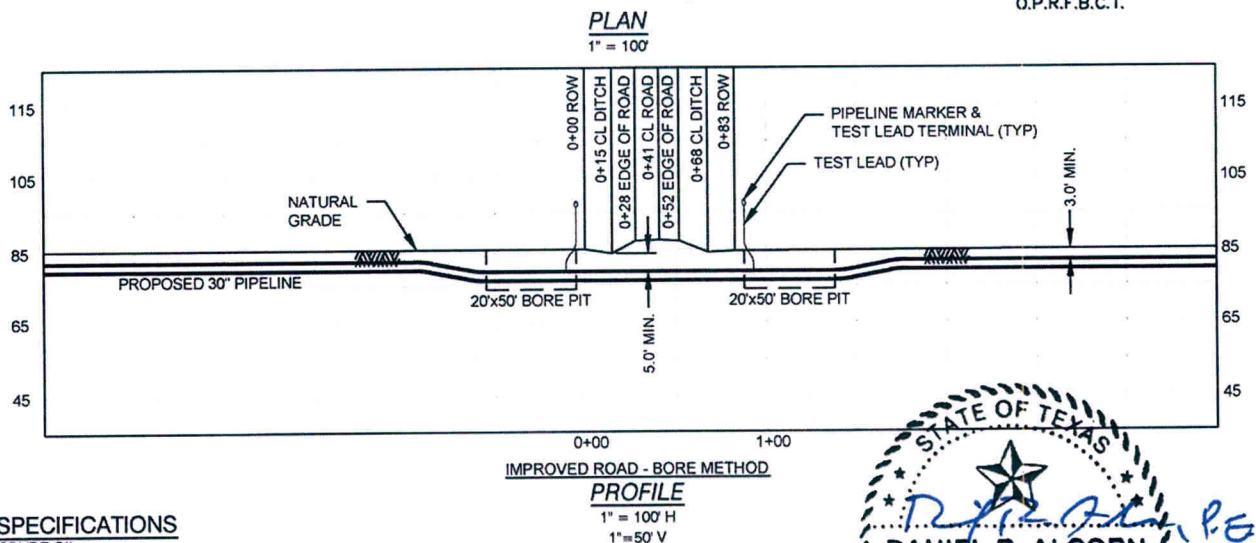
TX-FB-0172.00000
THERESA SCHULTZ, et al
REMAINDER OF A
CALLED 100 ACRES
C.C.F. No. 2001022223
O.P.R.F.B.C.T.

(X) LOCATION COORDINATES

1. $X=2650044.21$
 $Y=10711117.97$
2. $X=2650064.93$
 $Y=10711079.01$
3. $X=2650083.42$
 $Y=10711040.54$

TX-FB-0172.00100
GILBERT VALLET
NORTHEASTERLY 46% OF
A CALLED 59.82 ACRES
VOLUME 684, PAGE 628
D.R.F.B.C.T.

TX-FB-0173.00000
ERVIN LEE and MARGARET VALLET
FAMILY PARTNERSHIP OF 2005, LTD.
TRACT FIVE
CALLED 32.3028 ACRES
C.C.F. No. 2006000322
O.P.R.F.B.C.T.



PIPE SPECIFICATIONS

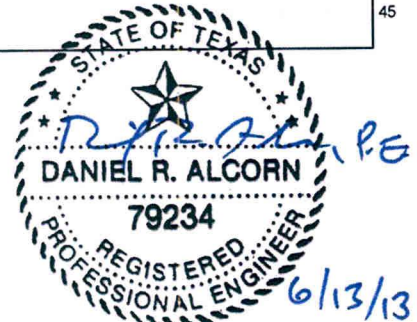
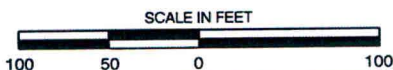
CONTENTS: CRUDE OIL
DESIGN FACTOR: 0.72
CARRIER PIPE: 30" O, 0.618" W.L., API 5L X70, DSAW, PSL2
COATING: 15-22 MILS FBE & 30-40 MILS ARO
M.O.P.: 1,440 PSIG
PIPELINE CATHODICALLY PROTECTED
METHOD OF INSTALLATION: CONVENTIONAL BORE

NOTE:

1. DATUM BASED ON TEXAS STATE PLANE COORDINATE SYSTEM, UTM NAD 83, ZONE 14N, NAVD 88, DERIVED FROM GPS OBSERVATION.
2. EXISTING UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS GENERATED FROM PREVIOUS MAPS AND SURVEY. CONTRACTOR SHALL VERIFY EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES IN AREA OF WORK PRIOR TO CONSTRUCTION AND CALL TEXAS ONE CALL SYSTEM AT 1-800-245-4545 AND ALL OTHER UTILITY COMPANIES AT LEAST 2 WORKING DAYS (48 HOURS) PRIOR TO CONSTRUCTION

I, Daniel R. Alcorn, Registered Professional Engineer in the State of Texas, P.E. No. 7923, of the company, BILFINGER TEPSCO INC., Texas Firm No. F-4689, have reviewed the pipeline design and pipe testing specifications of this permit and have found them accurate and suitable for the proposed project. Pipeline routing is based on information provided by others. Actual construction routing, both open cut and bore sections, may vary as required for safety, constructability, or for other engineering reasons. WATERGROUNDS AND UTILITIES, WHEN SHOWN ON THESE DRAWINGS OR NOT, SHOULD BE LOCATED BY THE CONTRACTOR AT LEAST 48 HOURS PRIOR TO DIGGING, TRENCHING, OR BORING.

I attest ONLY to the engineering aspects of the pipeline, and DO NOT attest to the accuracy, completeness, usefulness, or correctness of other aspects of the project, including but not limited to, survey, right-of-way, property ownership determination, and location of existing facilities that are the responsibility of other parties.



NO.	DATE	REVISION	BY	CHK	APPR	APPR	APPR
A	11/08/12	ISSUED FOR REVIEW	VG	JCL	JAW		



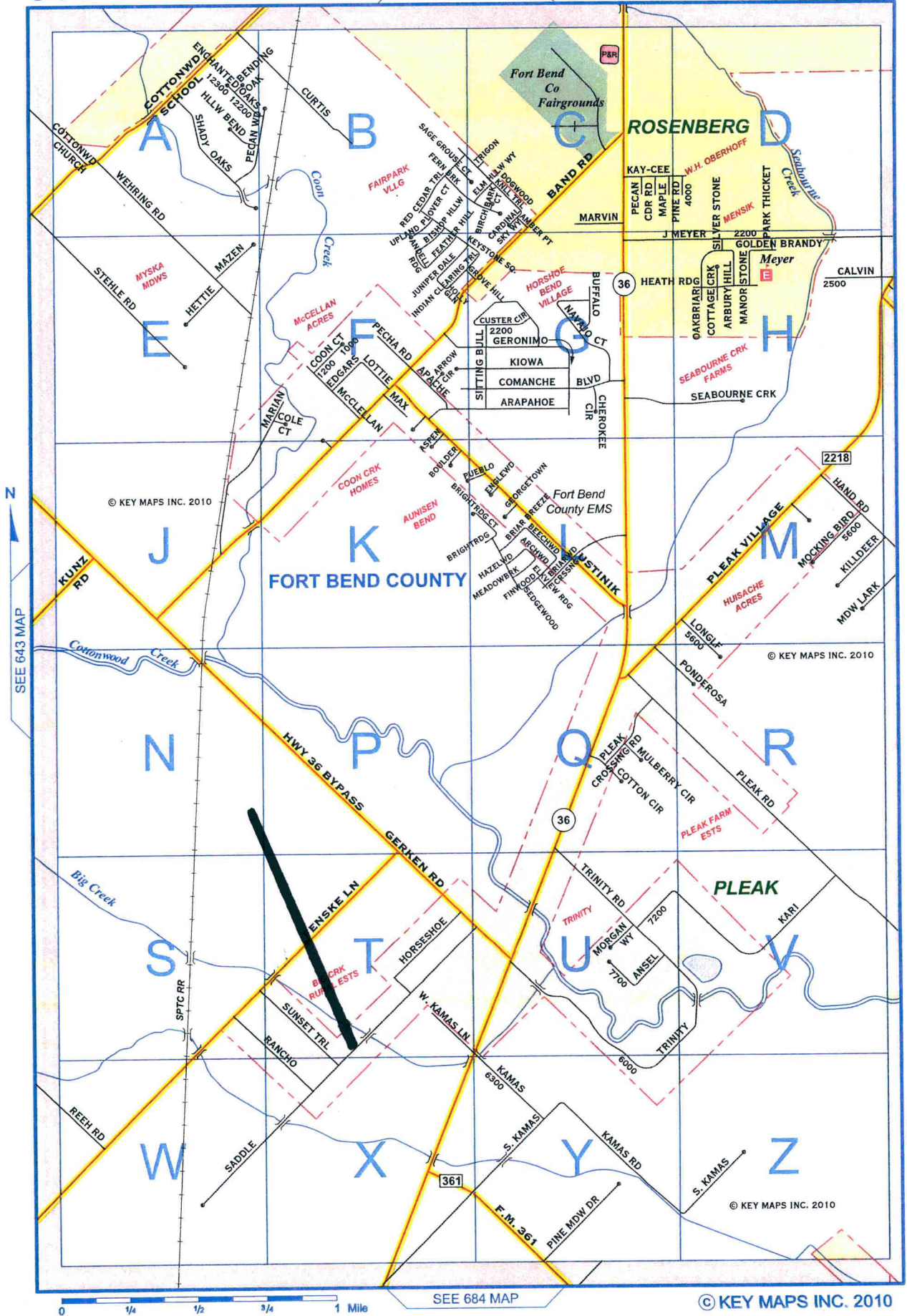
**WILLBROS ENGINEERS
(U.S.) LLC**
4400 Post Oak Parkway
Houston, TX. 77027
(713) 403-8000 TX-F-82

DRAWING ISSUES	CONSTRUCTION	LAST ORIG.			
	BIDS	LAST ORIG.			
	APPROVAL	LAST ORIG.			
	INFORMATION	LAST ORIG.			
	ISSUED FOR:	SIGNATURE	DATE	REV.	
DRAWING APPROVALS	DRAWN: VG		DATE: 11/08/12		
	CHECKED: JCL		DATE: 11/08/12		
	ENGINEER:		DATE:		
	W.E.I.:		DATE:		
	CLIENT:		DATE:		
CLIENT:		DATE:			

ROAD CROSSING PERMIT

SEAWAY CRUDE PL COMPANY LLC
FENSKE ROAD
FORT BEND COUNTY, TX

SCALE	PROJECT NO.	DRAWING NO.	SHEET	REV.
1' = 100"	52068	TX-FB-0172.00010	1 OF 1	A



FORT BEND COUNTY, TEXAS

THE CONTRACTOR MUST NOTIFY COUNTY ENGINEERING 48 HOURS PRIOR TO CONSTRUCTION GIVING THE NAME OF THE CONSTRUCTION COMPANY, THE NAME AND NUMBER OF AN ON SITE SUPERVISOR, AND THE INTENDED START DATE. THE CONTRACTOR MUST NOTIFY THE PERMIT AGENT 48 HOURS PRIOR TO CONSTRUCTION TO ACCESS THE "UIR" PROGRAM AND GIVE 48 HOURS NOTICE INCLUDING IN THE COMMENTS BOX - THE CONSTRUCTION COMPANY NAME, CONTACT PERSON'S NAME, CELL NUMBER, AND START DATE.
ALL ROAD BORES SHALL BE ACCOMPLISHED WITH THE CONVENTIONAL DRY AUGER, UNLESS OTHERWISE APPROVED BY A COUNTY ENGINEERING INSPECTOR, MAINTENANCE SUPERVISOR, OR AREA ENGINEER.

1. IN CURB/GUTTER STREETS, PIPELINE IS TO BE INSERTED AT A 2" MIN. BELOW THE SLAB.
2. ALL MINIMUM DEPTH REQUIREMENTS MEASURED AT THE TOP OF PIPE OR CASING.
3. A MIN. OF 30' OF CLEARANCE FROM NEAREST TRAFFIC LANE IS REQUIRED FOR BORE PITS.

LEGEND

P.E.R.W. PERMANENT EASEMENT & RIGHT OF WAY
N.T.S. NOT TO SCALE
ROW RIGHT OF WAY
F.M. FARM TO MARKET
MIN. MINIMUM
EXISTING PIPELINE
POWER LINE
FENCE
POWER POLE
TELEPHONE PEDESTAL



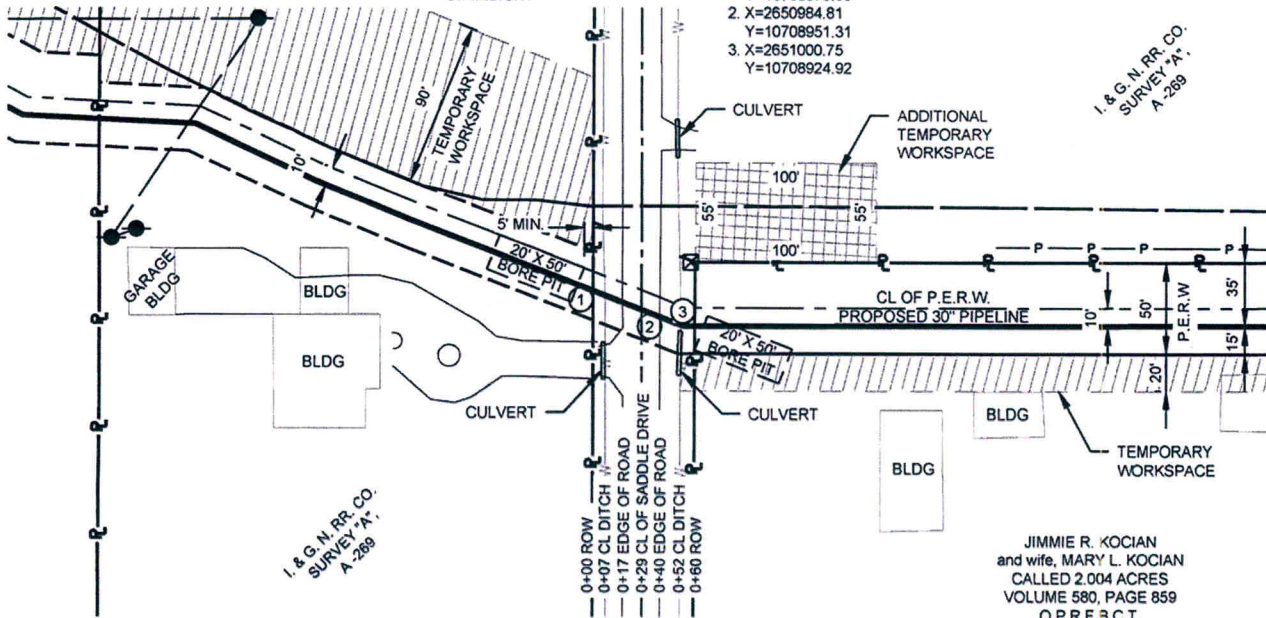
VICINITY MAP
N.T.S.

LOCATION COORDINATES

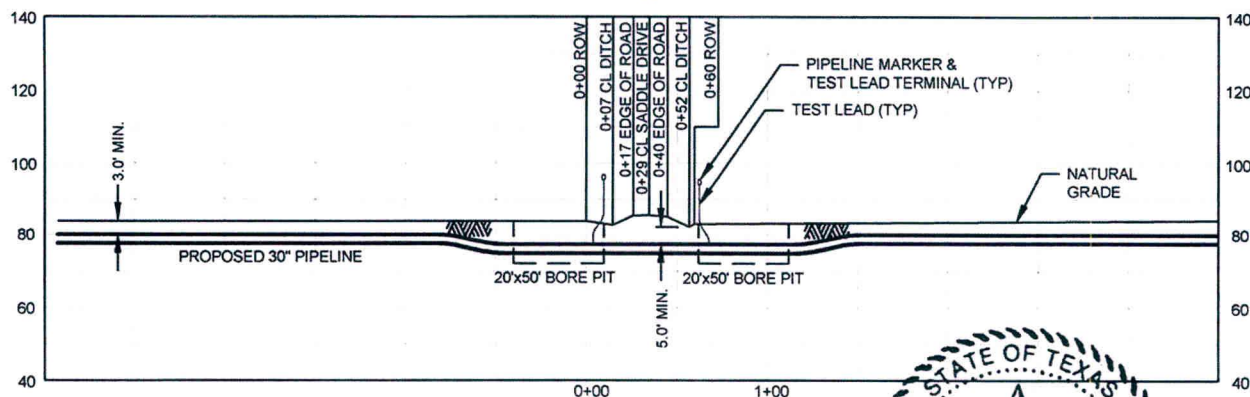
1. X=2650971.79
Y=10708976.99
2. X=2650984.81
Y=10708951.31
3. X=2651000.75
Y=10708924.92

ALEX GUTIERREZ
CALLED 4.6050 ACRES
C.C.F. No. 2010097812
O.P.F.B.C.T.

I & G N. RR. CO.
SURVEY "A",
A-289



PLAN
1" = 100'



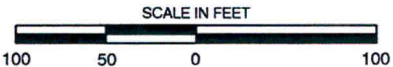
IMPROVED ROAD - BORE METHOD
PROFILE
1" = 100' H
1" = 50' V

PIPE SPECIFICATIONS

CONTENTS: CRUDE OIL
DESIGN FACTOR: 0.72
CARRIER PIPE: 30" O.D., 0.618" W.T., API 5L X70, DSAW, PSL2
COATING: 15-22 MILS FBE & 30-40 MILS ARO
M.O.P.: 1,440 PSIG
PIPELINE CATHODICALLY PROTECTED
METHOD OF INSTALLATION: CONVENTIONAL BORE

NOTE:

1. DATUM BASED ON TEXAS STATE PLANE COORDINATE SYSTEM, UTM NAD 83, ZONE 14N, NAVD 88, DERIVED FROM GPS OBSERVATION.
2. EXISTING UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS GENERATED FROM PREVIOUS MAPS AND SURVEY. CONTRACTOR SHALL VERIFY EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES IN AREA OF WORK PRIOR TO CONSTRUCTION AND CALL TEXAS ONE CALL SYSTEM AT 1-800-245-4545 AND ALL OTHER UTILITY COMPANIES AT LEAST 2 WORKING DAYS (48 HOURS) PRIOR TO CONSTRUCTION



I, Daniel R. Alcorn, Registered Professional Engineer in the State of Texas, P.E. No. 79234, an employee of BILFINGER TEPSCO INC., Texas Firm No. F-4669, have reviewed the pipeline design and pipe testing specifications of this permit and have found them accurate and suitable for the proposed project. Pipeline routing is based on information provided by others. Actual construction routing, both open cut and bore sections, may vary as required for safety, constructability, or for other engineering reasons. ALL UNDERGROUND UTILITIES, WHETHER SHOWN ON THESE DRAWINGS OR NOT, SHOULD BE LOCATED BY THE CONTRACTOR AT LEAST 48 HOURS PRIOR TO DIGGING, TRENCHING, OR BORING.

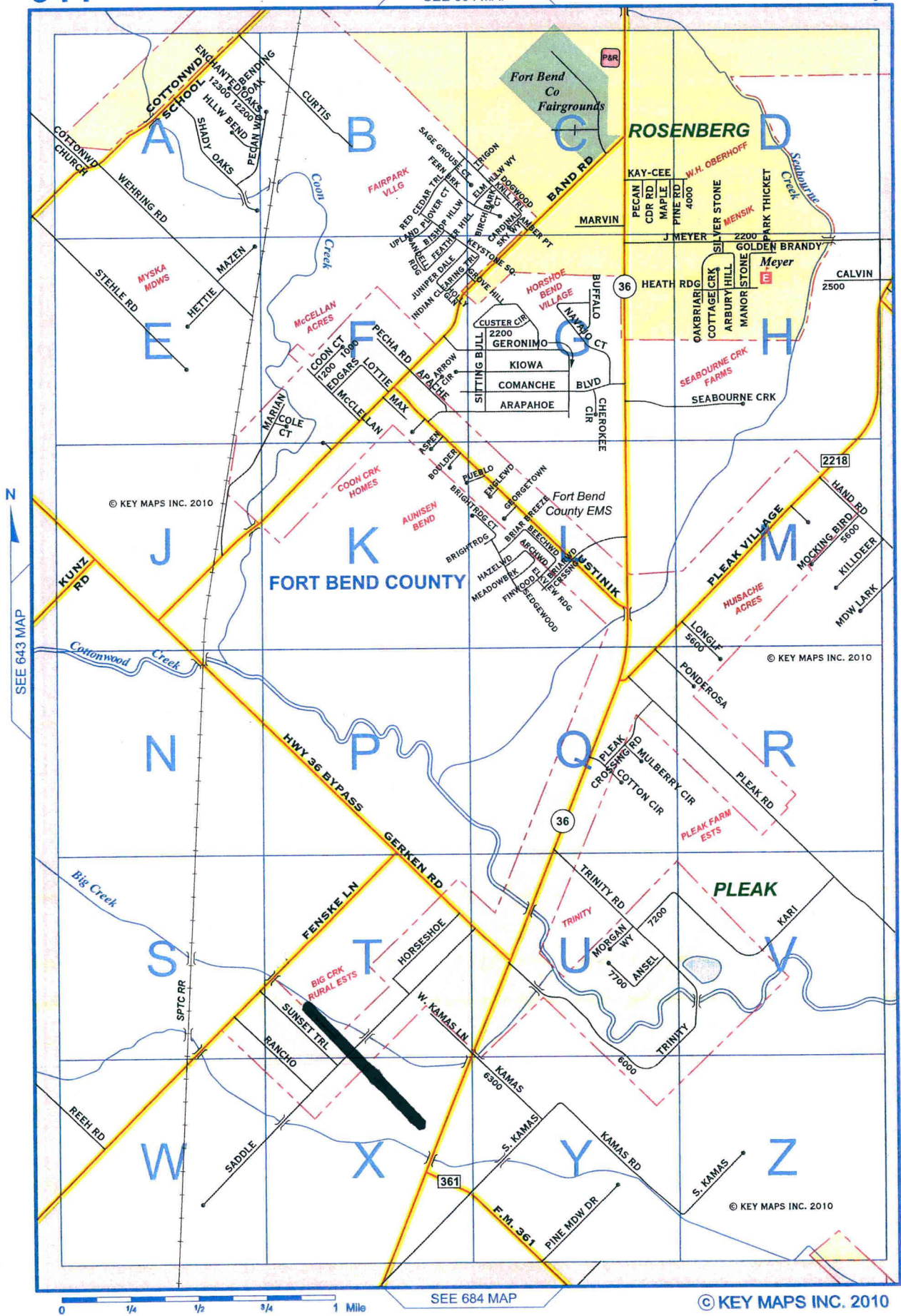
I attest ONLY to the engineering aspects of the pipeline, and DO NOT attest to the accuracy, completeness, usefulness, or correctness of other aspects of the project, including but not limited to, survey, right-of-way, property ownership determination, and location of existing facilities that are the responsibility of other parties.

NO.	DATE	REVISION	BY	CHK	APPR	APPR	APPR
A	11/14/12	ISSUED FOR REVIEW	VG	JCL	JAW		



DRAWING ISSUES	CONSTRUCTION	LAST	DATE
	BIDS	LAST	DATE
	APPROVAL	LAST	DATE
	INFORMATION	LAST	DATE
	ISSUED FOR:	SIGNATURE	DATE
	DRAWN:	VG	DATE: 11/14/12
	CHECKED:	JCL	DATE: 11/14/12
	ENGINEER:		DATE:
	W.E.I.:		DATE:
	CLIENT:		DATE:
	CLIENT:		DATE:

ROAD CROSSING PERMIT				
SEAWAY CRUDE PL COMPANY LLC				
SADDLE DRIVE				
FORT BEND COUNTY, TX				
SCALE	PROJECT NO.	DRAWING NO.	SHEET	REV.
1"=100"	52068	TX-FB-0175.00010	1 OF 1	A



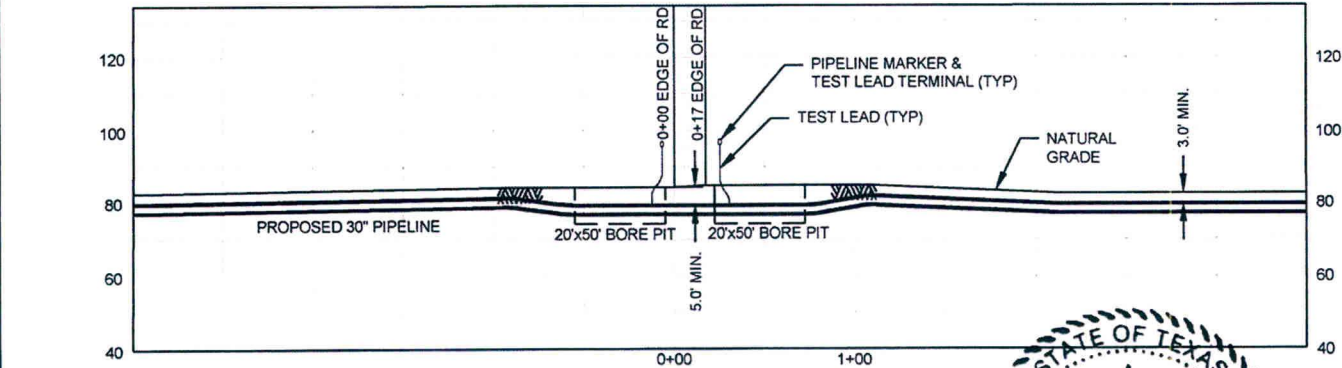
FORT BEND COUNTY, TEXAS

THE CONTRACTOR MUST NOTIFY COUNTY ENGINEERING 48 HOURS PRIOR TO CONSTRUCTION GIVING THE NAME OF THE CONSTRUCTION COMPANY, THE NAME AND NUMBER OF AN ON SITE SUPERVISOR, AND THE INTENDED START DATE. THE CONTRACTOR MUST NOTIFY THE PERMIT AGENT 48 HOURS PRIOR TO CONSTRUCTION TO ACCESS THE "UIR" PROGRAM AND GIVE 48 HOURS NOTICE INCLUDING IN THE COMMENTS BOX - THE CONSTRUCTION COMPANY NAME, CONTACT PERSON'S NAME, CELL NUMBER, AND START DATE.
ALL ROAD BORES SHALL BE ACCOMPLISHED WITH THE CONVENTIONAL DRY AUGER, UNLESS OTHERWISE APPROVED BY A COUNTY ENGINEERING INSPECTOR, MAINTENANCE SUPERVISOR, OR AREA ENGINEER.

1. IN CURB/GUTTER STREETS, PIPELINE IS TO BE INSERTED AT A 2" MIN. BELOW THE SLAB.
2. ALL MINIMUM DEPTH REQUIREMENTS MEASURED AT THE TOP OF PIPE OR CASING.
3. A MIN. OF 30' OF CLEARANCE FROM NEAREST TRAFFIC LANE IS REQUIRED FOR BORE PITS.

ALVIN RICHARD LINHART and
MATILDA EMILY LINHART
LOTS 16, 17, 28 AND 29, BLOCK 2 OF
SUNNYBROOK ACRES
VOLUME 1919, PAGE 1799
D. R. F. B. C. T.

LEGEND
P.E.R.W. PERMANENT EASEMENT & RIGHT OF WAY
N.T.S. NOT TO SCALE
ROW RIGHT OF WAY
TOB TOP OF BANK
F.M. FARM TO MARKET
MIN. MINIMUM
EXISTING PIPELINE
P POWER LINE
FENCE



PLAN
1" = 100'

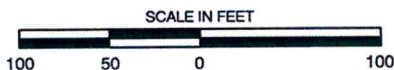
TRAVIS DEDEK TRUST, et al
CALLED 10.7 ACRES
C.C.F. No. 2006094579
O. P. R. F. B. C. T.

PIPE SPECIFICATIONS

CONTENTS: CRUDE OIL
DESIGN FACTOR: 0.72
CARRIER PIPE: 30" O.D., 0.618" w.t., API 5L X70, DSAW, PSL2
COATING: 15-22 MILS FBE & 30-40 MILS ARO
M.O.P.: 1,440 PSIG
PIPELINE CATHODICALLY PROTECTED
METHOD OF INSTALLATION: CONVENTIONAL BORE

NOTE:

1. DATUM BASED ON TEXAS STATE PLANE COORDINATE SYSTEM, UTM NAD 83, ZONE 14N, NAVD 88, DERIVED FROM GPS OBSERVATION.
2. EXISTING UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS GENERATED FROM PREVIOUS MAPS AND SURVEY. CONTRACTOR SHALL VERIFY EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES IN AREA OF WORK PRIOR TO CONSTRUCTION AND CALL TEXAS ONE CALL SYSTEM AT 1-800-245-4545 AND ALL OTHER UTILITY COMPANIES AT LEAST 2 WORKING DAYS (48 HOURS) PRIOR TO CONSTRUCTION



IMPROVED ROAD - BORE METHOD
PROFILE
1" = 100' H
1" = 50' V



I, Daniel R. Alcorno, Registered Professional Engineer in the State of Texas, P.E. No. 79234, an employee of BILFINGER TEPSCO INC., Texas Firm No. F-4669, have reviewed the pipeline design and pipe testing specifications of this permit and have found them accurate and suitable for the proposed project. Pipeline routing is based on information provided by others. Actual construction routing, both open cut and bore sections, may vary as required for safety, constructability, or for other engineering reasons. ALL UNDERGROUND UTILITIES, WHETHER SHOWN ON THESE DRAWINGS OR NOT, SHOULD BE LOCATED BY THE CONTRACTOR AT LEAST 48 HOURS PRIOR TO DIGGING, TRENCHING, OR BORING.

I attest ONLY to the engineering aspects of the pipeline, and DO NOT attest to the accuracy, completeness, usefulness, or correctness of other aspects of the project, including but not limited to, survey, right-of-way, property ownership determination, and location of existing facilities that are the responsibility of other parties.

NO.	DATE	REVISION	BY	CHK	APPR	APPR	APPR
A	11/12/12	ISSUED FOR REVIEW	VG	JCL	JAW		



WILLBROS ENGINEERS
(U.S.) LLC
4400 Post Oak Parkway
Houston, TX, 77027
(713) 403-8000 TX-F-82

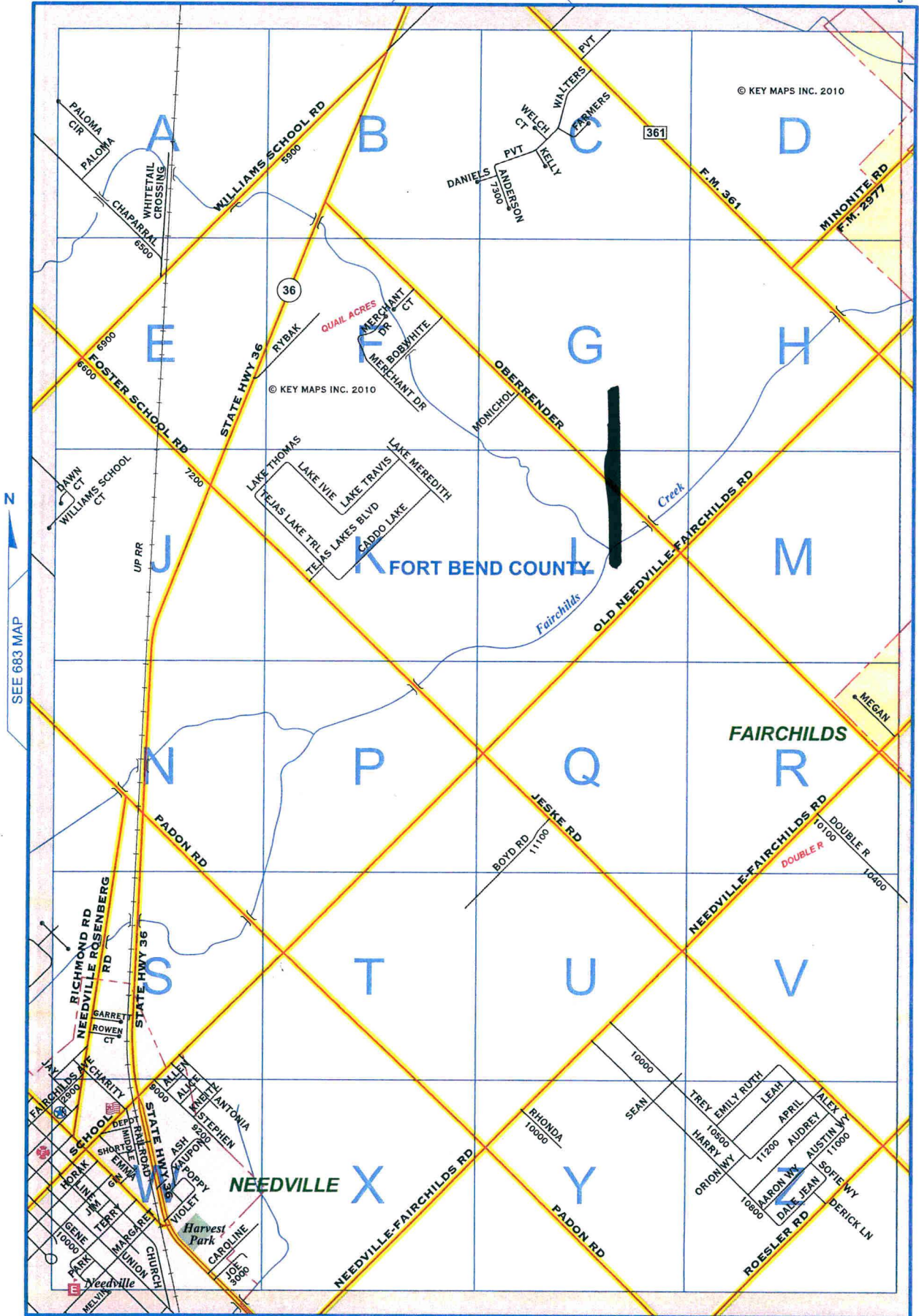
DRAWING ISSUES	CONSTRUCTION	LAST ORG.	DATE
BIDS	LAST ORG.		
APPROVAL	LAST ORG.		
INFORMATION	LAST ORG.		
ISSUED FOR:	SIGNATURE	DATE	REV.
DRAWN:	VG	DATE: 11/12/12	
CHECKED:	JCL	DATE: 11/12/12	
ENGINEER:		DATE:	
W.E.I.:		DATE:	
CLIENT:		DATE:	
CLIENT:		DATE:	

ROAD CROSSING PERMIT

SEAWAY CRUDE PL COMPANY LLC
WILLIAMS SCHOOL ROAD
FORT BEND COUNTY, TX

SCALE	PROJECT NO.	DRAWING NO.	SHEET	REV.
1"=100'	52068	TX-FB-0182.00010	1 OF 1	A

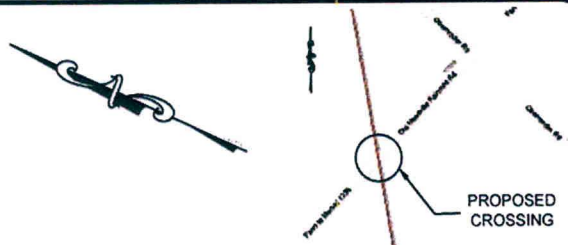




FORT BEND COUNTY, TEXAS

THE CONTRACTOR MUST NOTIFY COUNTY ENGINEERING 48 HOURS PRIOR TO CONSTRUCTION GIVING THE NAME OF THE CONSTRUCTION COMPANY, THE NAME AND NUMBER OF AN ON SITE SUPERVISOR, AND THE INTENDED START DATE. THE CONTRACTOR MUST NOTIFY THE PERMIT AGENT 48 HOURS PRIOR TO CONSTRUCTION TO ACCESS THE "UIR" PROGRAM AND GIVE 48 HOURS NOTICE INCLUDING IN THE COMMENTS BOX - THE CONSTRUCTION COMPANY NAME, CONTACT PERSON'S NAME, CELL NUMBER, AND START DATE.
ALL ROAD BORES SHALL BE ACCOMPLISHED WITH THE CONVENTIONAL DRY AUGER, UNLESS OTHERWISE APPROVED BY A COUNTY ENGINEERING INSPECTOR, MAINTENANCE SUPERVISOR, OR AREA ENGINEER.

1. IN CURB/GUTTER STREETS, PIPELINE IS TO BE INSERTED AT A 2" MIN. BELOW THE SLAB.
2. ALL MINIMUM DEPTH REQUIREMENTS MEASURED AT THE TOP OF PIPE OR CASING.
3. A MIN. OF 30' OF CLEARANCE FROM NEAREST TRAFFIC LANE IS REQUIRED FOR BORE PITS.

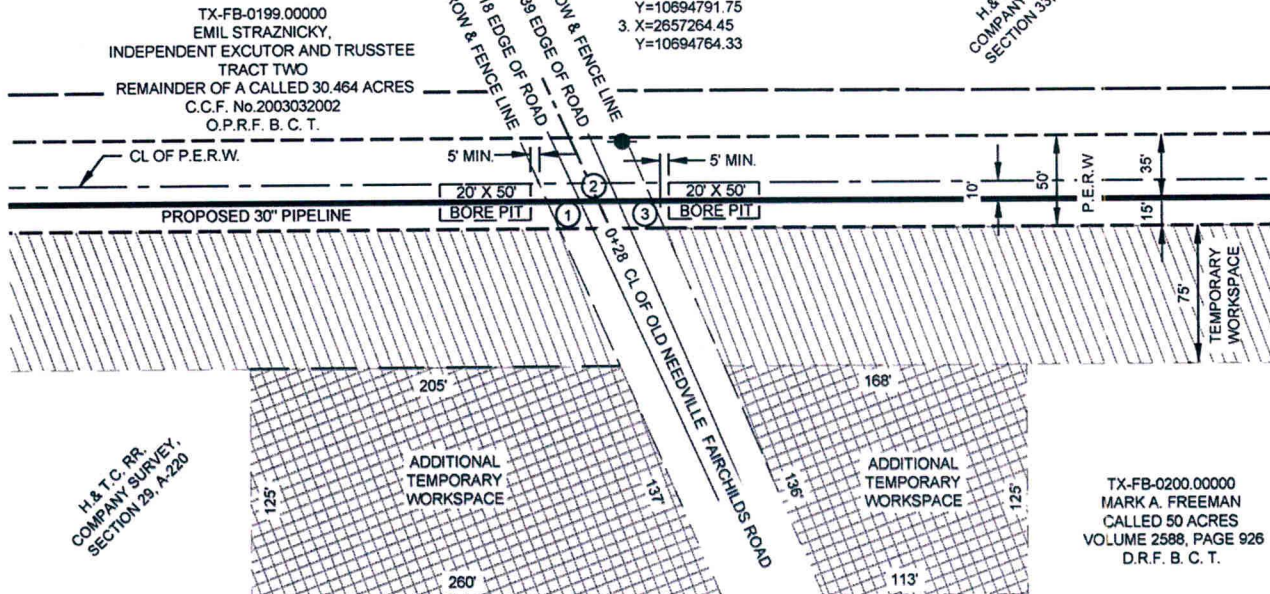


VICINITY MAP
N.T.S.

LOCATION COORDINATES

1. X=2657240.40
Y=10694817.42
2. X=2657252.03
Y=10694791.75
3. X=2657264.45
Y=10694764.33

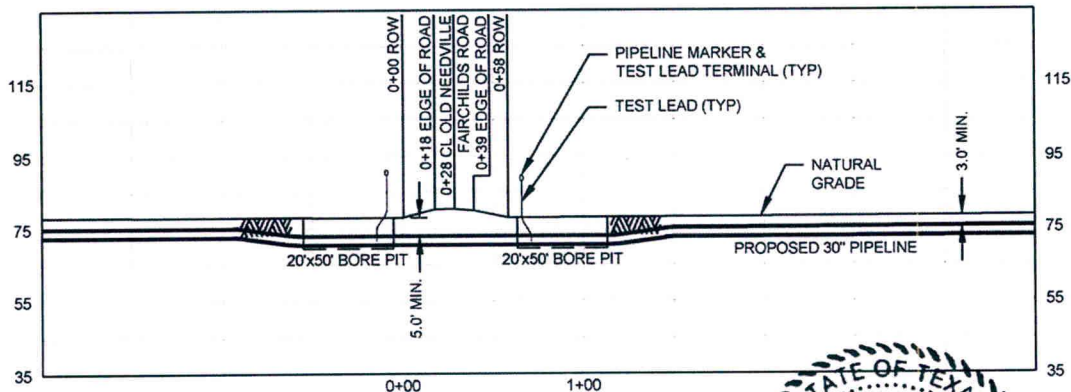
H & T.C. RR.
COMPANY SURVEY
SECTION 33, A-220



LEGEND

- P.E.R.W. PERMANENT EASEMENT & RIGHT OF WAY
N.T.S. NOT TO SCALE
ROW RIGHT OF WAY
F.M. FARM TO MARKET
MIN. MINIMUM
EXISTING PIPELINE
P POWER LINE
x FENCE
● POWER POLE

PLAN
1" = 100'



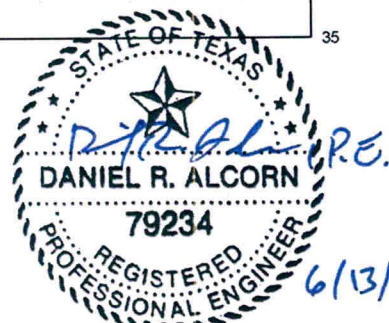
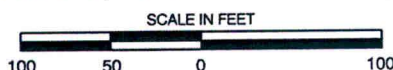
IMPROVED ROAD - BORE METHOD
PROFILE
1" = 100' H
1" = 50' V

PIPE SPECIFICATIONS

CONTENTS: CRUDE OIL
DESIGN FACTOR: 0.72
CARRIER PIPE: 30"Ø, 0.618" w.t., API 5L X70, DSAW, PS12
COATING: 15-22 MILS FBE & 30-40 MILS ARO
M.O.P.: 1,440 PSIG
PIPELINE CATHODICALLY PROTECTED
METHOD OF INSTALLATION: CONVENTIONAL BORE

NOTE:

1. DATUM BASED ON TEXAS STATE PLANE COORDINATE SYSTEM, UTM NAD 83, ZONE 14N, NAVD 88, DERIVED FROM GPS OBSERVATION.
2. EXISTING UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS GENERATED FROM PREVIOUS MAPS AND SURVEY. CONTRACTOR SHALL VERIFY EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES IN AREA OF WORK PRIOR TO CONSTRUCTION AND CALL TEXAS ONE CALL SYSTEM AT 1-800-245-4545 AND ALL OTHER UTILITY COMPANIES AT LEAST 2 WORKING DAYS (48 HOURS) PRIOR TO CONSTRUCTION



I, Daniel R. Alcorn, Registered Professional Engineer in the State of Texas, P.E. No. 79234, an employee of BILFINGER TEPSCO INC., Texas Firm No. F-4659, have reviewed the pipeline design and pipe testing specifications of this permit and have found them accurate and suitable for the proposed project. Pipeline routing is based on information provided by others. Actual construction routing, both open cut and bore sections, may vary as required for safety, constructability, or for other engineering reasons. ALL UNDERGROUND UTILITIES, WHETHER SHOWN ON THESE DRAWINGS OR NOT, SHOULD BE LOCATED BY THE CONTRACTOR AT LEAST 48 HOURS PRIOR TO DIGGING, TRENCHING, OR BORING.

I attest ONLY to the engineering aspects of the pipeline, and DO NOT attest to the accuracy, completeness, usefulness, or correctness of other aspects of the project, including but not limited to, survey, right-of-way, property ownership determination, and location of existing facilities that are the responsibility of other parties.

NO.	DATE	REVISION	BY	CHK	APPR	APPR	APPR
A	11/05/12	ISSUED FOR REVIEW	MP	JCL	JAW		



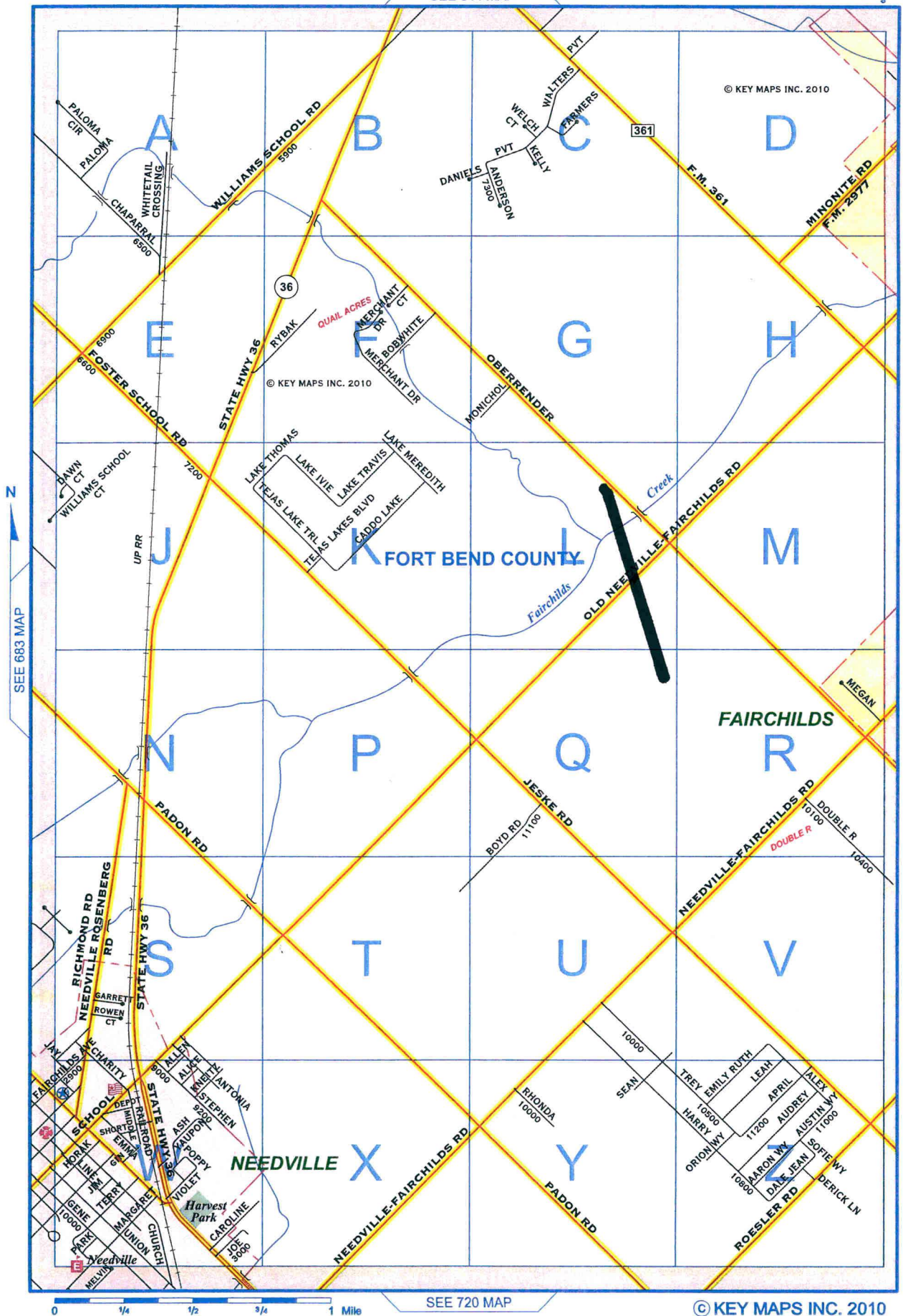
WILLBROS ENGINEERS
(U.S.) LLC
4400 Post Oak Parkway
Houston, TX. 77027
(713) 403-8000 TX-F-82

DRAWING ISSUES	CONSTRUCTION	LAST	ORIG.
BIDS	LAST	ORIG.	
APPROVAL	LAST	ORIG.	
INFORMATION	LAST	ORIG.	
ISSUED FOR:	SIGNATURE	DATE	REV.
DRAWN:	MP	DATE: 11/05/12	
CHECKED:	JCL	DATE: 11/05/12	
ENGINEER:		DATE:	
W.E.I.:		DATE:	
CLIENT:		DATE:	
CLIENT:		DATE:	

ROAD CROSSING PERMIT

SEAWAY CRUDE PL COMPANY LLC
OLD NEEDVILLE FAIRCHILDS ROAD
FORT BEND COUNTY, TX

SCALE	PROJECT NO.	DRAWING NO.	SHEET	REV.
1"=100'	52068	TX-FB-0199.00010	1 OF 1	A



FORT BEND COUNTY, TEXAS

THE CONTRACTOR MUST NOTIFY COUNTY ENGINEERING 48 HOURS PRIOR TO CONSTRUCTION GIVING THE NAME OF THE CONSTRUCTION COMPANY, THE NAME AND NUMBER OF AN ON SITE SUPERVISOR, AND THE INTENDED START DATE. THE CONTRACTOR MUST NOTIFY THE PERMIT AGENT 48 HOURS PRIOR TO CONSTRUCTION TO ACCESS THE "UIR" PROGRAM AND GIVE 48 HOURS NOTICE INCLUDING IN THE COMMENTS BOX - THE CONSTRUCTION COMPANY NAME, CONTACT PERSON'S NAME, CELL NUMBER, AND START DATE.
ALL ROAD BORES SHALL BE ACCOMPLISHED WITH THE CONVENTIONAL DRY AUGER, UNLESS OTHERWISE APPROVED BY A COUNTY ENGINEERING INSPECTOR, MAINTENANCE SUPERVISOR, OR AREA ENGINEER.

1. IN CURB/GUTTER STREETS, PIPELINE IS TO BE INSERTED AT A 2" MIN. BELOW THE SLAB.
2. ALL MINIMUM DEPTH REQUIREMENTS MEASURED AT THE TOP OF PIPE OR CASING.
3. A MIN. OF 30' OF CLEARANCE FROM NEAREST TRAFFIC LANE IS REQUIRED FOR BORE PITS.

TX-FB-203.00000
LESLIE WALTER, et al
CALLED 105.79 ACRES
C.C.F. No. 2012025791
O.P.R. F.B. C. T.

LEGEND

- P.E.R.W. PERMANENT EASEMENT & RIGHT OF WAY
N.T.S. NOT TO SCALE
EXISTING PIPELINE
P POWER LINE
X FENCE
● POWER POLE

LOCATION COORDINATES

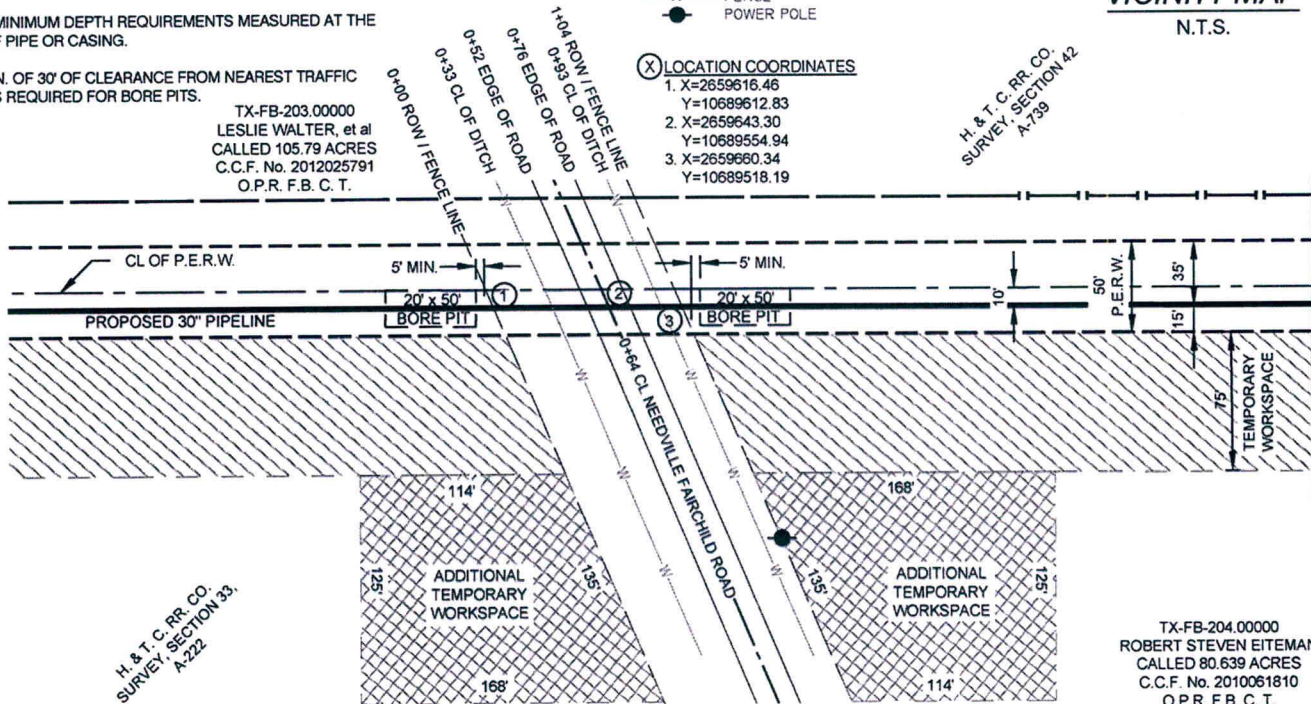
1. X=2659616.46
Y=10689612.83
2. X=2659643.30
Y=10689554.94
3. X=2659660.34
Y=10689518.19

PROPOSED
CROSSING

VICINITY MAP

N.T.S.

H. & T. C. RR. CO.
SURVEY, SECTION 42
A-739

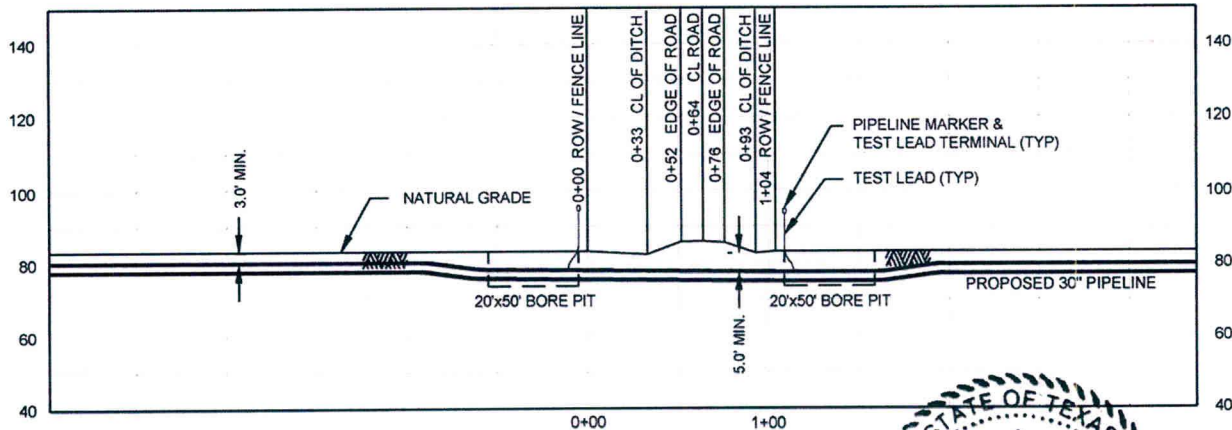


H. & T. C. RR. CO.
SURVEY, SECTION 33
A-222

TX-FB-204.00000
ROBERT STEVEN EITEMAN
CALLED 80.639 ACRES
C.C.F. No. 2010061810
O.P.R. F.B. C. T.

PLAN

1" = 100'



PIPE SPECIFICATIONS

CONTENTS: CRUDE OIL
DESIGN FACTOR: 0.72
CARRIER PIPE: 30"Ø, 0.618" w.L., API 5L X70, DSAW, PSL2
COATING: 15-22 MILS FBE & 30-40 MILS ARO
M.O.P.: 1,440 PSIG
PIPELINE CATHODICALLY PROTECTED
METHOD OF INSTALLATION: CONVENTIONAL BORE

IMPROVED ROAD - BORE METHOD

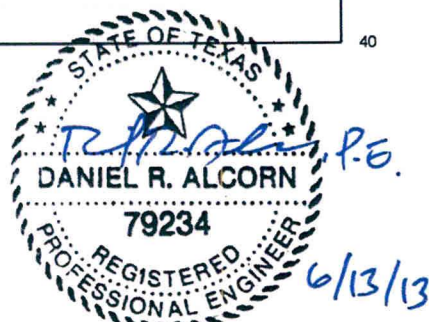
PROFILE

1" = 100' H
1" = 50' V

NOTE:

1. DATUM BASED ON TEXAS STATE PLANE COORDINATE SYSTEM, UTM NAD 83, ZONE 14N, NAVD 88, DERIVED FROM GPS OBSERVATION.
2. EXISTING UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS GENERATED FROM PREVIOUS MAPS AND SURVEY. CONTRACTOR SHALL VERIFY EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES IN AREA OF WORK PRIOR TO CONSTRUCTION AND CALL TEXAS ONE CALL SYSTEM AT 1-800-245-4545 AND ALL OTHER UTILITY COMPANIES AT LEAST 2 WORKING DAYS (48 HOURS) PRIOR TO CONSTRUCTION

SCALE IN FEET



I, Daniel R. Alcorn, Registered Professional Engineer in the State of Texas, P.E. No. 79234, an employee of BILFINGER TEPSCO INC., Texas Firm No. F-4669, have reviewed the pipeline design and pipe testing specifications of this permit and have found them accurate and suitable for the proposed project. Pipeline routing is based on information provided by others. Actual construction routing, both open cut and bore sections, may vary as required for safety, constructability, or for other engineering reasons. ALL UNDERGROUND UTILITIES, WHETHER SHOWN ON THESE DRAWINGS OR NOT, SHOULD BE LOCATED BY THE CONTRACTOR AT LEAST 48 HOURS PRIOR TO DIGGING, TRENCHING, OR BORING.

I attest ONLY to the engineering aspects of the pipeline, and DO NOT attest to the accuracy, completeness, usefulness, or correctness of other aspects of the project, including but not limited to, survey, right-of-way, property ownership determination, and location of existing facilities that are the responsibility of other parties.

NO.	DATE	REVISION	BY	CHK	APPR	APPR	APPR
A	11/08/12	ISSUED FOR REVIEW	SN	JCL	JAW		

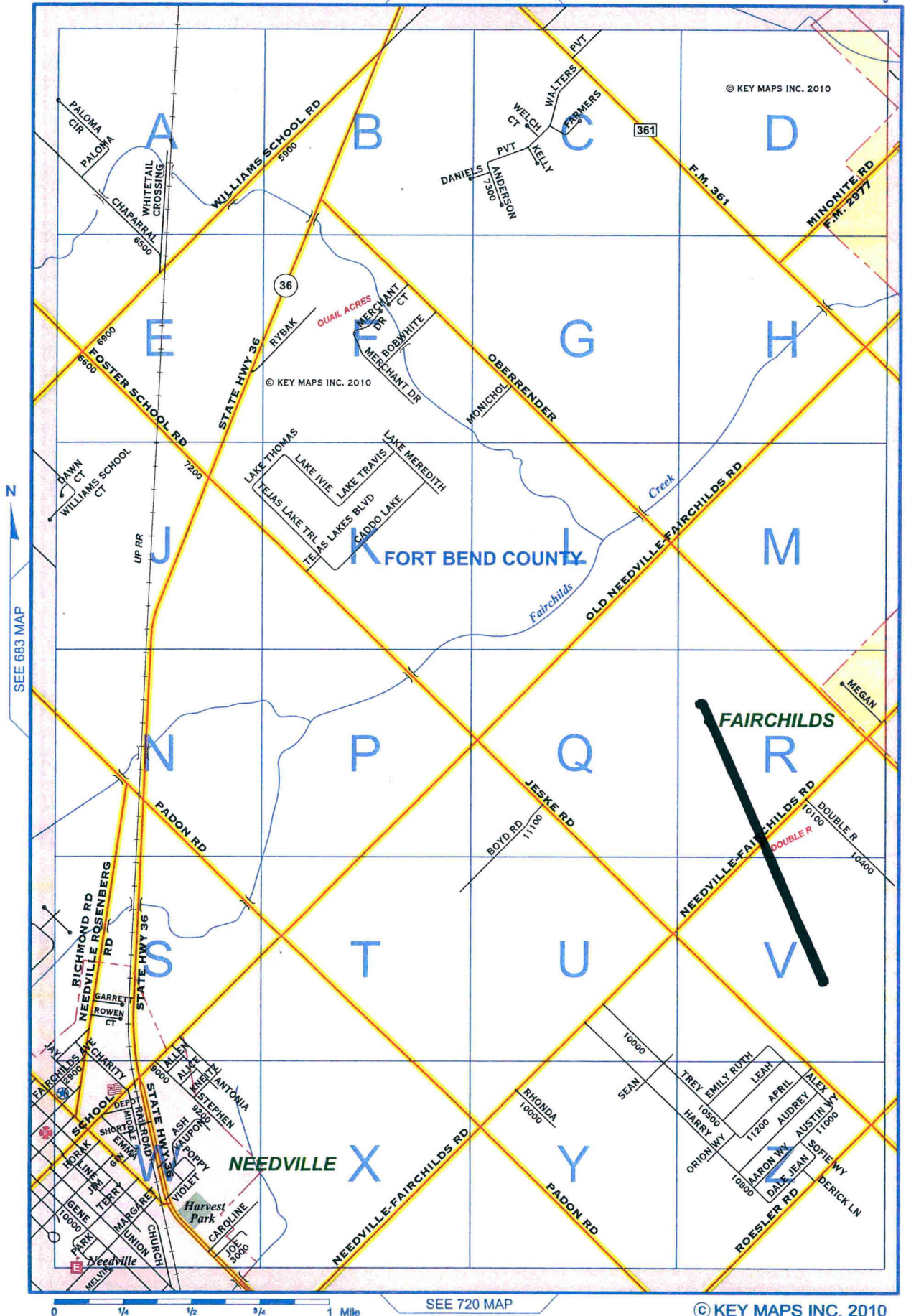
Seaway Crude
PIPELINE COMPANY LLC

WILLBROS ENGINEERS
(U.S.) LLC
4400 Post Oak Parkway
Houston, TX. 77027
(713) 403-8000 TX-F-82

DRAWING ISSUES	CONSTRUCTION	LAST	DATE
	BIDS	LAST	DATE
	APPROVAL	LAST	DATE
	INFORMATION	LAST	DATE
	ISSUED FOR:	SIGNATURE	DATE
	DRAWN:	SN	DATE: 11/08/12
	CHECKED:	JCL	DATE: 11/08/12
	ENGINEER:		DATE:
	W.E.I.:		DATE:
	CLIENT:		DATE:
	CLIENT:		DATE:

ROAD CROSSING PERMIT
SEAWAY CRUDE PL COMPANY LLC
NEEDVILLE FAIRCHILD ROAD
FORT BEND COUNTY, TX

SCALE	PROJECT NO.	DRAWING NO.	SHEET	REV.
1"=100'	52068	TX-FB-0203.00010	1 OF 1	A



FORT BEND COUNTY, TEXAS

THE CONTRACTOR MUST NOTIFY COUNTY ENGINEERING 48 HOURS PRIOR TO CONSTRUCTION GIVING THE NAME OF THE CONSTRUCTION COMPANY, THE NAME AND NUMBER OF AN ON SITE SUPERVISOR, AND THE INTENDED START DATE. THE CONTRACTOR MUST NOTIFY THE PERMIT AGENT 48 HOURS PRIOR TO CONSTRUCTION TO ACCESS THE "UIR" PROGRAM AND GIVE 48 HOURS NOTICE INCLUDING IN THE COMMENTS BOX - THE CONSTRUCTION COMPANY NAME, CONTACT PERSON'S NAME, CELL NUMBER, AND START DATE.
ALL ROAD BORES SHALL BE ACCOMPLISHED WITH THE CONVENTIONAL DRY AUGER, UNLESS OTHERWISE APPROVED BY A COUNTY ENGINEERING INSPECTOR, MAINTENANCE SUPERVISOR, OR AREA ENGINEER.

1. IN CURB/GUTTER STREETS, PIPELINE IS TO BE INSERTED AT A 2' MIN. BELOW THE SLAB.
2. ALL MINIMUM DEPTH REQUIREMENTS MEASURED AT THE TOP OF PIPE OR CASING.
3. A MIN. OF 30' OF CLEARANCE FROM NEAREST TRAFFIC LANE IS REQUIRED FOR BORE PITS.

TX-FB-207-00000
CHARLES W. DRUMM
REMAINDER OF A
CALLED 80 ACRES
C.C.F. No. 2001094474
O.P.R. F.B. C. T.

LEGEND

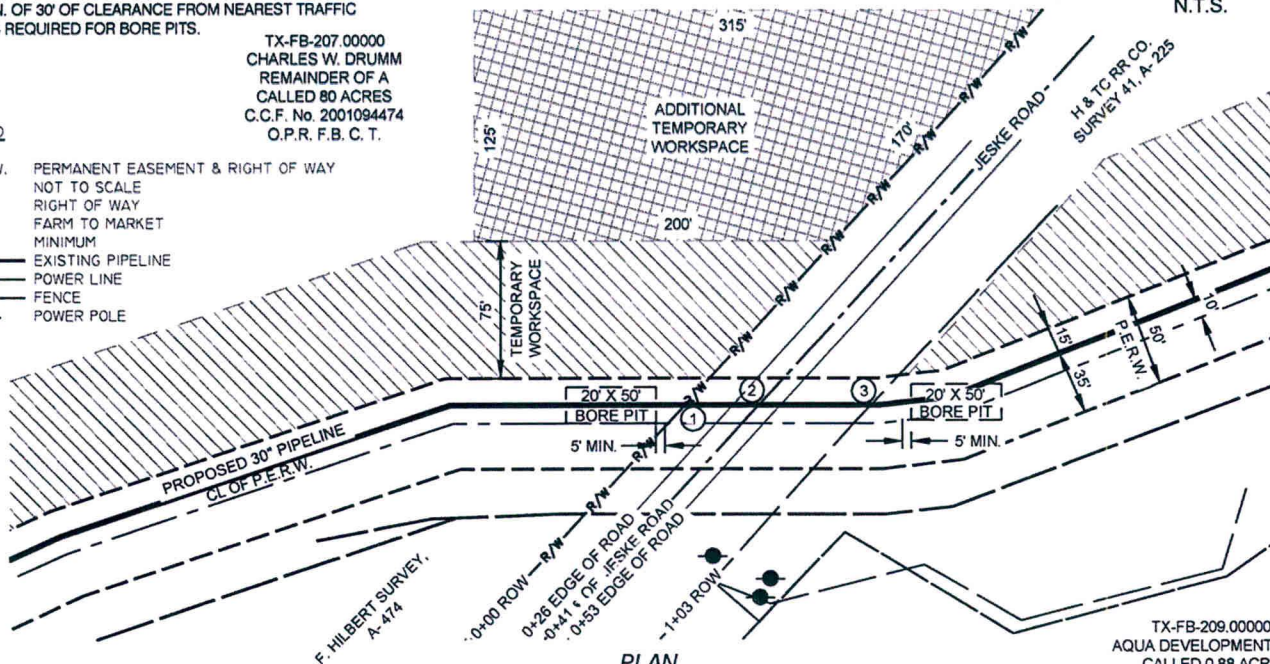
- P.E.R.W. PERMANENT EASEMENT & RIGHT OF WAY
N.T.S. NOT TO SCALE
ROW RIGHT OF WAY
F.M. FARM TO MARKET
MIN. MINIMUM
EXISTING PIPELINE
P POWER LINE
X FENCE
POWER POLE

LOCATION COORDINATES

1. X=2659616.46
Y=10689612.83
2. X=2659643.30
Y=10689554.94
3. X=2659660.34
Y=10689518.19

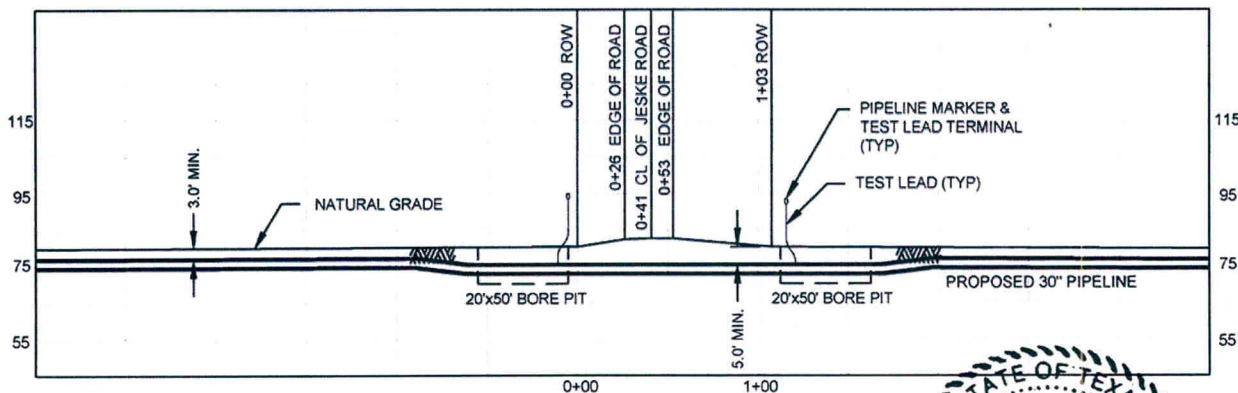
VICINITY MAP

N.T.S.



PLAN
1" = 100'

TX-FB-209.00000
AQUA DEVELOPMENT, INC.
CALLED 0.88 ACRE
C.C.F. No. 2002127930
O.P.R. F.B. C. T.



IMPROVED ROAD - BORE METHOD
PROFILE
1" = 100' H
1" = 50' V

PIPE SPECIFICATIONS

CONTENTS: CRUDE OIL
DESIGN FACTOR: 0.72
CARRIER PIPE: 30"Ø, 0.618" w.t., API 5L X70, DSAW, PSL2
COATING: 15-22 MILS FBE & 30-40 MILS ARO
M.O.P.: 1,440 PSIG
PIPELINE CATHODICALLY PROTECTED
METHOD OF INSTALLATION: CONVENTIONAL BORE

NOTE:

1. DATUM BASED ON TEXAS STATE PLANE COORDINATE SYSTEM, UTM NAD 83, ZONE 14N, NAVD 88, DERIVED FROM GPS OBSERVATION.
2. EXISTING UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS GENERATED FROM PREVIOUS MAPS AND SURVEY. CONTRACTOR SHALL VERIFY EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES IN AREA OF WORK PRIOR TO CONSTRUCTION AND CALL TEXAS ONE CALL SYSTEM AT 1-800-245-4545 AND ALL OTHER UTILITY COMPANIES AT LEAST 2 WORKING DAYS (48 HOURS) PRIOR TO CONSTRUCTION

SCALE IN FEET

100 50 0 100



I, Daniel R. Alcorn, Registered Professional Engineer in the State of Texas, P.E. No. 79234, an employee of BILFINGER TEPSCO INC., Texas Firm No. F-4669, have reviewed the pipeline design and pipe testing specifications of this permit and have found them accurate and suitable for the proposed project. Pipeline routing is based on information provided by others. Actual construction routing, both open cut and bore sections, may vary as required for safety, constructability, or for other engineering reasons. ALL UNDERGROUND UTILITIES, WHETHER SHOWN ON THESE DRAWINGS OR NOT, SHOULD BE LOCATED BY THE CONTRACTOR AT LEAST 48 HOURS PRIOR TO DIGGING, TRENCHING, OR BORING.

I attest ONLY to the engineering aspects of the pipeline, and DO NOT attest to the accuracy, completeness, usefulness, or correctness of other aspects of the project, including but not limited to, survey, right-of-way, property ownership determination, and location of existing facilities that are the responsibility of other parties.

NO.	DATE	REVISION	BY	CHK	APPR	APPR	APPR
A	11/14/12	ISSUED FOR REVIEW	MP	JCL	JAW		



DRAWING ISSUES	CONSTRUCTION	LAST ORIG.	DATE
BIDS	LAST ORIG.		
APPROVAL	LAST ORIG.		
INFORMATION	LAST ORIG.		
ISSUED FOR:	SIGNATURE	DATE	REV.
DRAWN:	MP	DATE: 11/14/12	
CHECKED:	JCL	DATE: 11/14/12	
ENGINEER:		DATE:	
W.E.I.:		DATE:	
CLIENT:		DATE:	

ROAD CROSSING PERMIT
SEAWAY CRUDE PL COMPANY LLC
JESKE ROAD
FORT BEND COUNTY, TX

SCALE	PROJECT NO.	DRAWING NO.	SHEET	REV.
1"=100'	52068	TX-FB-0207-00010	1 OF 1	A



FORT BEND COUNTY, TEXAS

THE CONTRACTOR MUST NOTIFY COUNTY ENGINEERING 48 HOURS PRIOR TO CONSTRUCTION GIVING THE NAME OF THE CONSTRUCTION COMPANY, THE NAME AND NUMBER OF AN ON SITE SUPERVISOR, AND THE INTENDED START DATE. THE CONTRACTOR MUST NOTIFY THE PERMIT AGENT 48 HOURS PRIOR TO CONSTRUCTION TO ACCESS THE "UIR" PROGRAM AND GIVE 48 HOURS NOTICE INCLUDING IN THE COMMENTS BOX - THE CONSTRUCTION COMPANY NAME, CONTACT PERSON'S NAME, CELL NUMBER, AND START DATE.

ALL ROAD BORES SHALL BE ACCOMPLISHED WITH THE CONVENTIONAL DRY AUGER, UNLESS OTHERWISE APPROVED BY A COUNTY ENGINEERING INSPECTOR, MAINTENANCE SUPERVISOR, OR AREA ENGINEER.

1. IN CURB/GUTTER STREETS, PIPELINE IS TO BE INSERTED AT A 2' MIN. BELOW THE SLAB.
2. ALL MINIMUM DEPTH REQUIREMENTS MEASURED AT THE TOP OF PIPE OR CASING.
3. A MIN. OF 30' OF CLEARANCE FROM NEAREST TRAFFIC LANE IS REQUIRED FOR BORE PITS.

LEGEND

P.E.R.W. PERMANENT EASEMENT & RIGHT OF WAY
N.T.S. NOT TO SCALE
ROW RIGHT OF WAY
F.M. FARM TO MARKET
MIN. MINIMUM
EXISTING PIPELINE
P POWER LINE
X FENCE

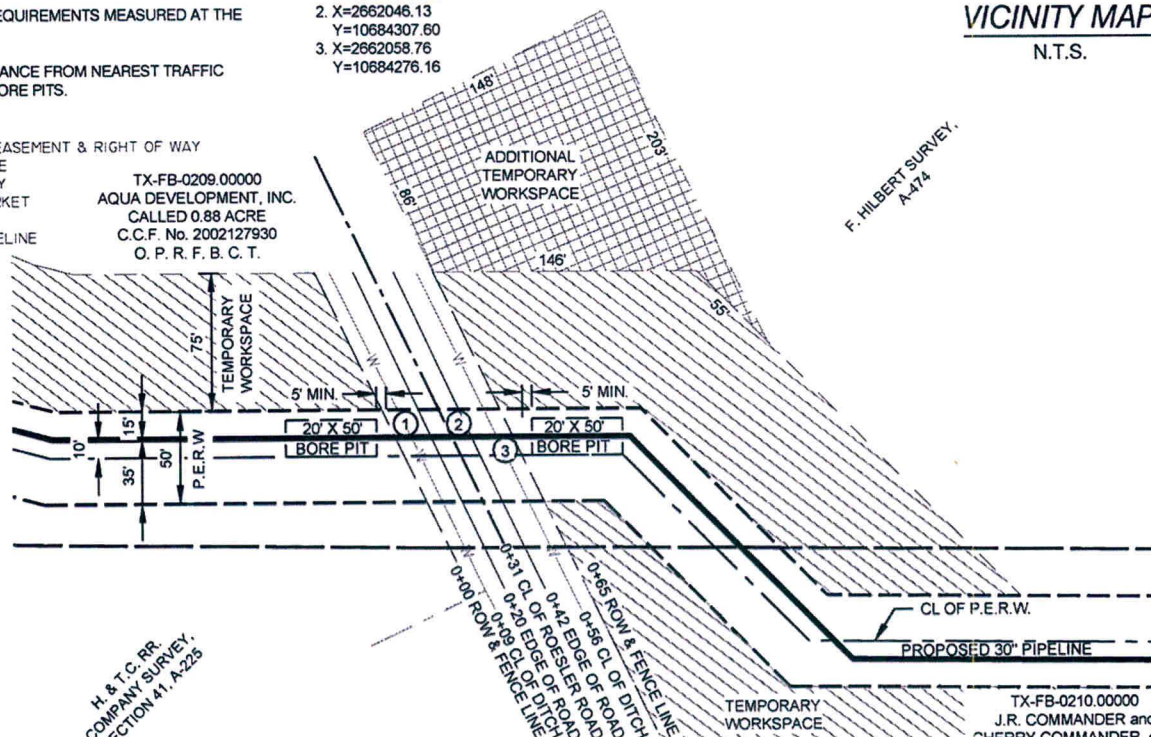
TX-FB-0209.00000
AQUA DEVELOPMENT, INC.
CALLED 0.88 ACRE
C.C.F. No. 2002127930
O. P. R. F. B. C. T.

(X) LOCATION COORDINATES

1. X=2662034.46
Y=10684336.65
2. X=2662046.13
Y=10684307.60
3. X=2662058.76
Y=10684276.16

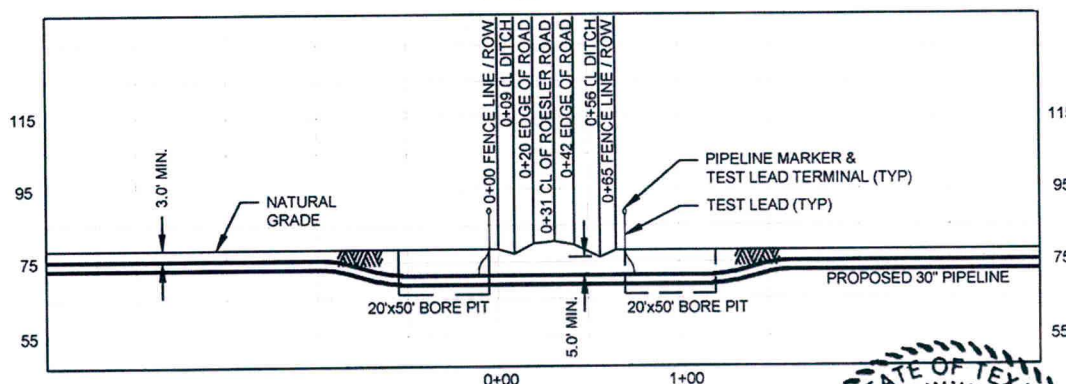
VICINITY MAP

N.T.S.



PLAN
1" = 100'

TX-FB-0210.00000
J.R. COMMANDER and
CHERRY COMMANDER, et al
CALLED 31.2607 ACRES
VOLUME 2650, PAGE 1363
O. R. F. B. C. T.



IMPROVED ROAD - BORE METHOD

PROFILE

$$1'' = 50' \text{ V}$$

PIPE SPECIFICATIONS

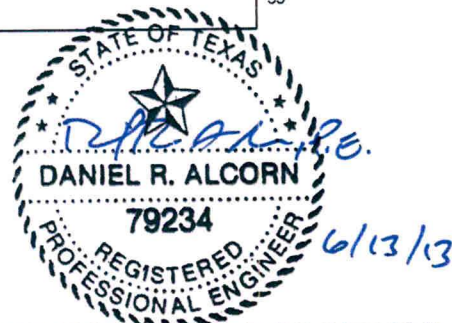
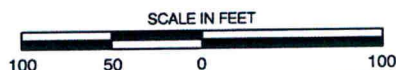
CONTENTS: CRUDE OIL
DESIGN FACTOR: 0.72
CARRIER PIPE: 30" Ø, 0.618" w.t., API 5L X70, DSAW, PS2
COATING: 15-22 MILS FBE & 30-40 MILS ARO
M.O.P.: 1,440 PSIG
PIPELINE CATHODICALLY PROTECTED
METHOD OF INSTALLATION: CONVENTIONAL BORE

NOTE:

- NOTE:
1. DATUM BASED ON TEXAS STATE PLANE COORDINATE SYSTEM, UTM NAD 83, ZONE 14N, NAVD 88, DERIVED FROM GPS OBSERVATION.
 2. EXISTING UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS GENERATED FROM PREVIOUS MAPS AND SURVEY. CONTRACTOR SHALL VERIFY EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES IN AREA OF WORK PRIOR TO CONSTRUCTION AND CALL TEXAS ONE CALL SYSTEM AT 1-800-245-4545 AND ALL OTHER UTILITY COMPANIES AT LEAST 2 WORKING DAYS (48 HOURS) PRIOR TO CONSTRUCTION

I, Daniel R. Alcorn, Registered Professional Engineer in the State of Texas, P.E. No. 9,723-1, as employee of BILFINGER TEPSCO INC., Texas Firm No. F-4669, have reviewed the pipeline design and pipe testing specifications of this permit and have found them accurate and suitable for the proposed project. Pipeline routing is based on information provided by others. Actual construction routing, both open cut and bore sections, may vary as required for safety, constructability, or for other engineering reasons. UNDERGROUND UTILITIES, WHETHER SHOWN ON PLANS, DRAWINGS OR NOT, SHOULD BE LOCATED BY THE CONTRACTOR AT LEAST 48 HOURS PRIOR TO DIGGING, TRENCHING, OR ROBIN.

I attest ONLY to the engineering aspects of the pipeline, and DO NOT attest to the accuracy, completeness, usefulness, or correctness of other aspects of the project, including but not limited to, survey, right-of-way, property ownership determination, and location of existing facilities that are the responsibility of other parties.



NO.	DATE	REVISION	BY	CHK	APPR	APPR	APPR
A	11/12/12	ISSUED FOR REVIEW	MP	JCL	JAW		



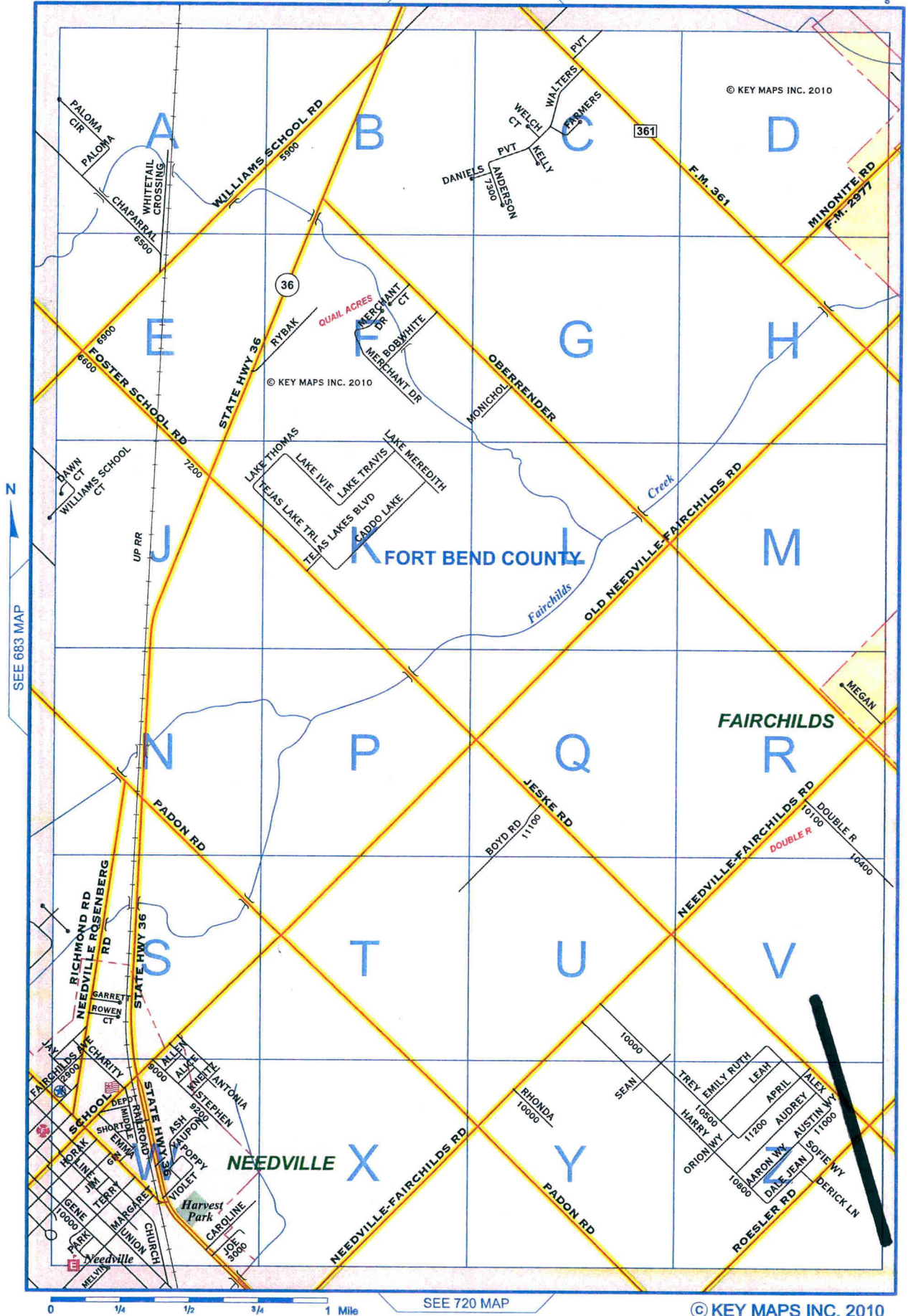
**WILLBROS ENGINEERS
(U.S.) LLC**
4400 Post Oak Parkway
Houston, TX. 77027
(713) 403-8000 TX-F-82

DRAWING ISSUES	CONSTRUCTION	LAST ORIG.			
	BIDS	LAST			
		ORIG.			
	APPROVAL	LAST			
		ORIG.			
	INFORMATION	LAST ORIG.			
ISSUED FOR:	SIGNATURE	DATE	REV.		
DRAWING APPROVALS	DRAWN:	MP	DATE:	11/12/12	
	CHECKED:	JCL	DATE:	11/12/12	
	ENGINEER:		DATE:		
	W.E.I.:		DATE:		
	CLIENT:		DATE:		
	CLIENT:		DATE:		

ROAD CROSSING PERMIT

SEAWAY CRUDE PL COMPANY LLC
ROESLER ROAD
FORT BEND COUNTY, TX

SCALE	PROJECT NO.	DRAWING NO.	SHEET	REV.
1"=100'	52068	TX-FB-0208.00010	1 OF 1	A



FORT BEND COUNTY, TEXAS

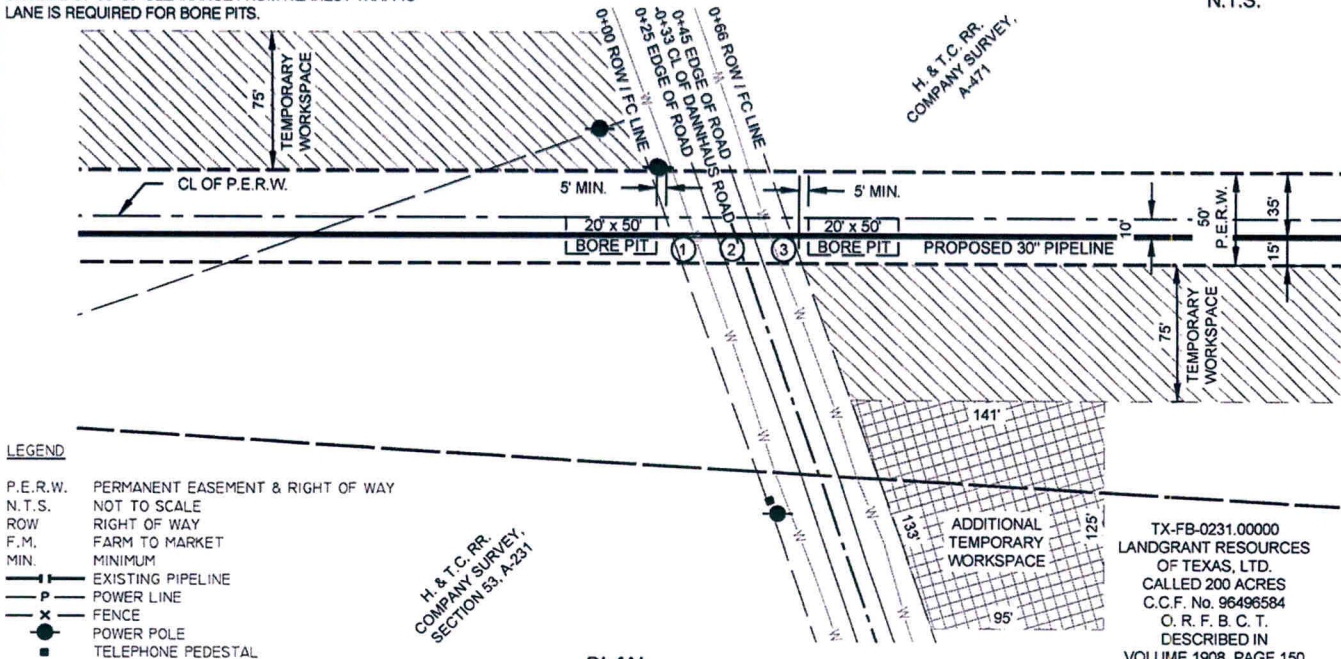
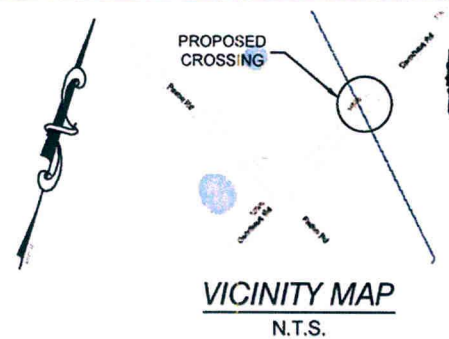
THE CONTRACTOR MUST NOTIFY COUNTY ENGINEERING 48 HOURS PRIOR TO CONSTRUCTION GIVING THE NAME OF THE CONSTRUCTION COMPANY, THE NAME AND NUMBER OF AN ON SITE SUPERVISOR, AND THE INTENDED START DATE. THE CONTRACTOR MUST NOTIFY THE PERMIT AGENT 48 HOURS PRIOR TO CONSTRUCTION TO ACCESS THE "UIR" PROGRAM AND GIVE 48 HOURS NOTICE INCLUDING IN THE COMMENTS BOX - THE CONSTRUCTION COMPANY NAME, CONTACT PERSON'S NAME, CELL NUMBER, AND START DATE.

ALL ROAD BORES SHALL BE ACCOMPLISHED WITH THE CONVENTIONAL DRY AUGER, UNLESS OTHERWISE APPROVED BY A COUNTY ENGINEERING INSPECTOR, MAINTENANCE SUPERVISOR, OR AREA ENGINEER.

1. IN CURB/GUTTER STREETS, PIPELINE IS TO BE INSERTED AT A 2' MIN. BELOW THE SLAB.
2. ALL MINIMUM DEPTH REQUIREMENTS MEASURED AT THE TOP OF PIPE OR CASING.
3. A MIN. OF 30' OF CLEARANCE FROM NEAREST TRAFFIC LANE IS REQUIRED FOR BORE PITS.

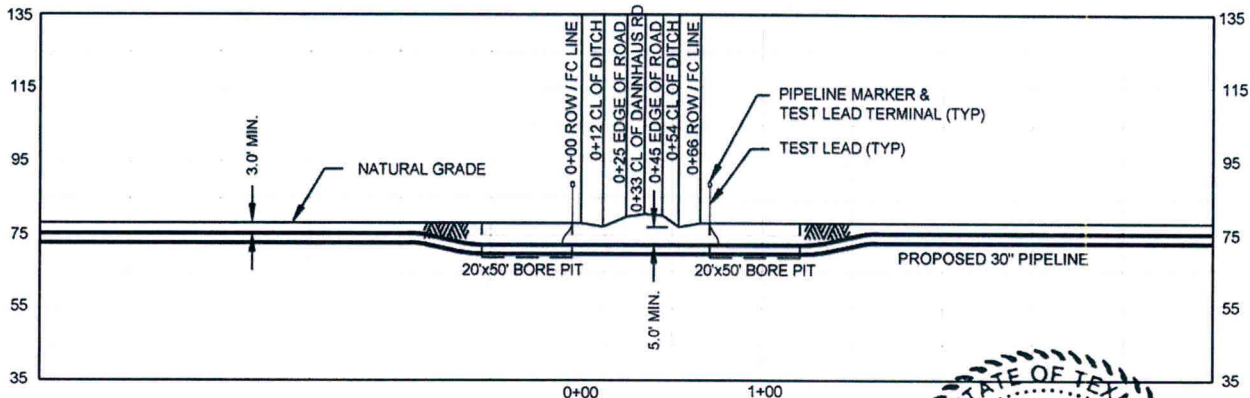
TX-FB-0230.00000
ALLEN K. STRUSKA
CALLED 2.00 ACRES
C.C.F. No. 98106079
O. P. R. F. B. C. T.

(X) LOCATION COORDINATES
1. X=2666871.86
Y=10673916.10
2. X=2666895.71
Y=10673893.22
3. X=2666910.66
Y=10673865.79



PLAN
1" = 100'

TX-FB-0231.00000
LANDGRANT RESOURCES
OF TEXAS, LTD.
CALLED 200 ACRES
C.C.F. No. 96496584
O. R. F. B. C. T.
DESCRIBED IN
VOLUME 1908, PAGE 150
O. R. F. B. C. T.



IMPROVED ROAD - BORE METHOD

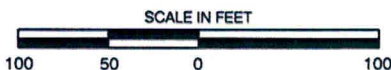
PROFILE
1" = 100' H
1" = 50' V

PIPE SPECIFICATIONS

CONTENTS: CRUDE OIL
DESIGN FACTOR: 0.72
CARRIER PIPE: 30"Ø, 0.618" w.L., API 5L X70, DSAW, PSL2
COATING: 15-22 MILS FBE & 30-40 MILS ARO
M.O.P.: 1,440 PSIG
PIPELINE CATHODICALLY PROTECTED
METHOD OF INSTALLATION: CONVENTIONAL BORE

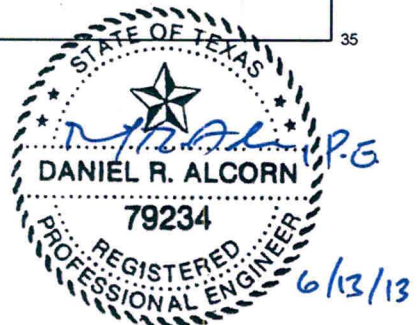
NOTE:

1. DATUM BASED ON TEXAS STATE PLANE COORDINATE SYSTEM, UTM NAD 83, ZONE 14N, NAVD 88, DERIVED FROM GPS OBSERVATION.
2. EXISTING UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS GENERATED FROM PREVIOUS MAPS AND SURVEY. CONTRACTOR SHALL VERIFY EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES IN AREA OF WORK PRIOR TO CONSTRUCTION AND CALL TEXAS ONE CALL SYSTEM AT 1-800-245-4545 AND ALL OTHER UTILITY COMPANIES AT LEAST 2 WORKING DAYS (48 HOURS) PRIOR TO CONSTRUCTION



I, Daniel R. Alcorn, Registered Professional Engineer in the State of Texas, P.E. No. 79234, an employee of BILFINGER TEPSCO INC., Texas Firm No. F-4669, have reviewed the pipeline design and pipe testing specifications of this permit and have found them accurate and suitable for the proposed project. Pipeline routing is based on information provided by others. Actual construction routing, both open cut and bore sections, may vary as required for safety, constructability, or for other engineering reasons. ALL UNDERGROUND UTILITIES, WHETHER SHOWN ON THESE DRAWINGS OR NOT, SHOULD BE LOCATED BY THE CONTRACTOR AT LEAST 48 HOURS PRIOR TO DIGGING, TRENCHING, OR BORING.

I attest ONLY to the engineering aspects of the pipeline, and DO NOT attest to the accuracy, completeness, usefulness, or correctness of other aspects of the project, including but not limited to, survey, right-of-way, property ownership determination, and location of existing facilities that are the responsibility of other parties.



NO.	DATE	REVISION	BY	CHK	APPR	APPR	APPR
A	11/06/12	ISSUED FOR REVIEW	SN	JCL	JAW		



DRAWING ISSUES	CONSTRUCTION	LAST ORG.	BIDS	LAST ORG.	APPROVAL	LAST ORG.	INFORMATION	LAST ORG.
DRAWING APPROVALS	ISSUED FOR:	SIGNATURE	DATE	REV.	DRAWN:	SN	DATE:	11/06/12
	CHECKED:	JCL	DATE:	11/06/12	ENGINEER:		DATE:	
	W.E.I.:		DATE:		CLIENT:		DATE:	
	CLIENT:		DATE:					

ROAD CROSSING PERMIT

SEAWAY CRUDE PL COMPANY LLC
DANNHAUS ROAD
FORT BEND COUNTY, TX

SCALE	PROJECT NO.	DRAWING NO.	SHEET	REV.
1"=100'	52068	TX-FB-0230.00010	1 OF 1	A



FORT BEND COUNTY, TEXAS

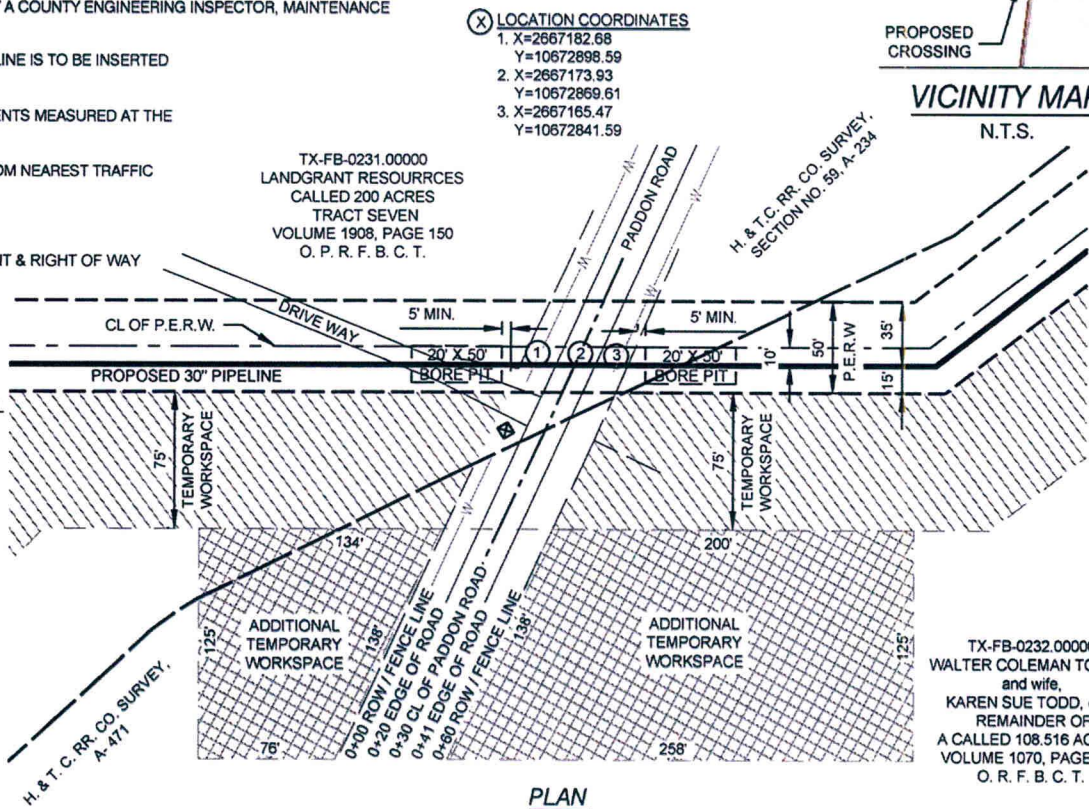
THE CONTRACTOR MUST NOTIFY COUNTY ENGINEERING 48 HOURS PRIOR TO CONSTRUCTION GIVING THE NAME OF THE CONSTRUCTION COMPANY, THE NAME AND NUMBER OF AN ON SITE SUPERVISOR, AND THE INTENDED START DATE. THE CONTRACTOR MUST NOTIFY THE PERMIT AGENT 48 HOURS PRIOR TO CONSTRUCTION TO ACCESS THE "UIR" PROGRAM AND GIVE 48 HOURS NOTICE INCLUDING IN THE COMMENTS BOX - THE CONSTRUCTION COMPANY NAME, CONTACT PERSON'S NAME, CELL NUMBER, AND START DATE.

ALL ROAD BORES SHALL BE ACCOMPLISHED WITH THE CONVENTIONAL DRY AUGER, UNLESS OTHERWISE APPROVED BY A COUNTY ENGINEERING INSPECTOR, MAINTENANCE SUPERVISOR, OR AREA ENGINEER.

1. IN CURB/GUTTER STREETS, PIPELINE IS TO BE INSERTED AT A 2' MIN. BELOW THE SLAB.
2. ALL MINIMUM DEPTH REQUIREMENTS MEASURED AT THE TOP OF PIPE OR CASING.
3. A MIN. OF 30' OF CLEARANCE FROM NEAREST TRAFFIC LANE IS REQUIRED FOR BORE PITS.

LEGEND

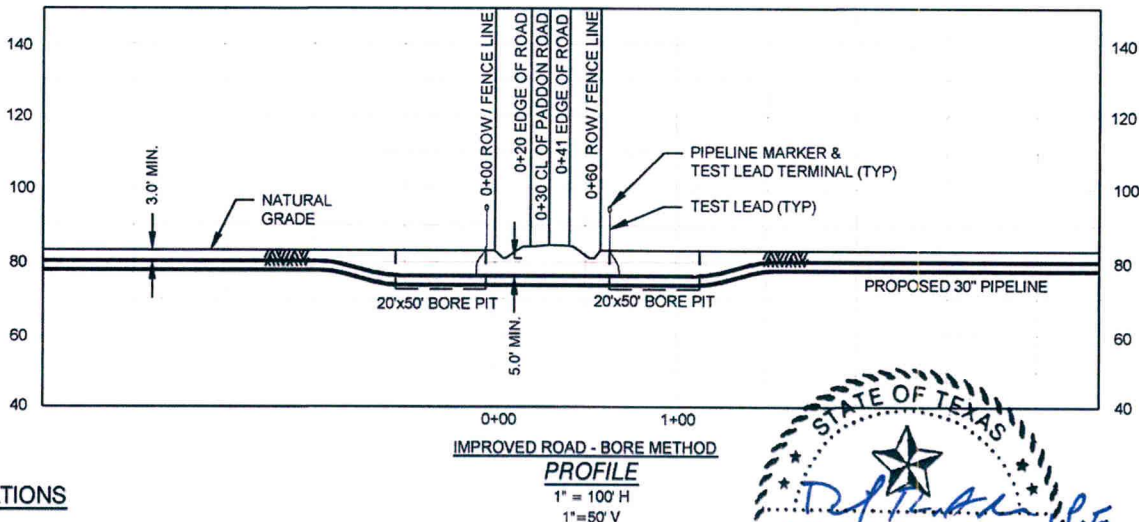
P.E.R.W. PERMANENT EASEMENT & RIGHT OF WAY
N.T.S. NOT TO SCALE
ROW RIGHT OF WAY
F.M. FARM TO MARKET
MIN. MINIMUM
EXISTING PIPELINE
P POWER LINE
FENCE
TELEPHONE PEDESTAL



PROPOSED CROSSING

VICINITY MAP
N.T.S.

TX-FB-0232.00000
WALTER COLEMAN TODD, II
and wife,
KAREN SUE TODD, et al
REMAINDER OF
A CALLED 108.516 ACRES
VOLUME 1070, PAGE 746
O. P. R. F. B. C. T.

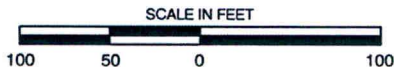


PIPE SPECIFICATIONS

CONTENTS: CRUDE OIL
DESIGN FACTOR: 0.72
CARRIER PIPE: 30"Ø, 0.618" w.L., API 5L X70, DSAW, PSL2
COATING: 15-22 MILS FBE & 30-40 MILS ARO
M.O.P.: 1,440 PSIG
PIPELINE CATHODICALLY PROTECTED
METHOD OF INSTALLATION: CONVENTIONAL BORE

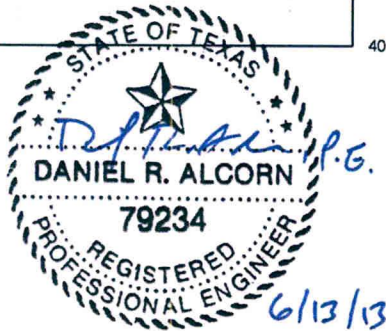
NOTE:

1. DATUM BASED ON TEXAS STATE PLANE COORDINATE SYSTEM, UTM NAD 83, ZONE 14N, NAVD 88, DERIVED FROM GPS OBSERVATION.
2. EXISTING UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS GENERATED FROM PREVIOUS MAPS AND SURVEY. CONTRACTOR SHALL VERIFY EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES IN AREA OF WORK PRIOR TO CONSTRUCTION AND CALL TEXAS ONE CALL SYSTEM AT 1-800-245-4545 AND ALL OTHER UTILITY COMPANIES AT LEAST 2 WORKING DAYS (48 HOURS) PRIOR TO CONSTRUCTION



I, Daniel R. Alcorn, Registered Professional Engineer in the State of Texas, P.E. No. 79234, an employee of BILFINGER TEPSCO INC., Texas Firm No. F-4669, have reviewed the pipeline design and pipe testing specifications of this permit and have found them accurate and suitable for the proposed project. Pipeline routing is based on information provided by others. Actual construction routing, both open cut and bore sections, may vary as required for safety, constructability, or for other engineering reasons. ALL UNDERGROUND UTILITIES, WHETHER SHOWN ON THESE DRAWINGS OR NOT, SHOULD BE LOCATED BY THE CONTRACTOR AT LEAST 48 HOURS PRIOR TO DIGGING, TRENCHING, OR BORING.

I attest ONLY to the engineering aspects of the pipeline, and DO NOT attest to the accuracy, completeness, usefulness, or correctness of other aspects of the project, including but not limited to, survey, right-of-way, property ownership determination, and location of existing facilities that are the responsibility of other parties.



NO.	DATE	REVISION	BY	CHK	APPR	APPR	APPR
A	11/09/12	ISSUED FOR REVIEW	MP	JCL	JAW		

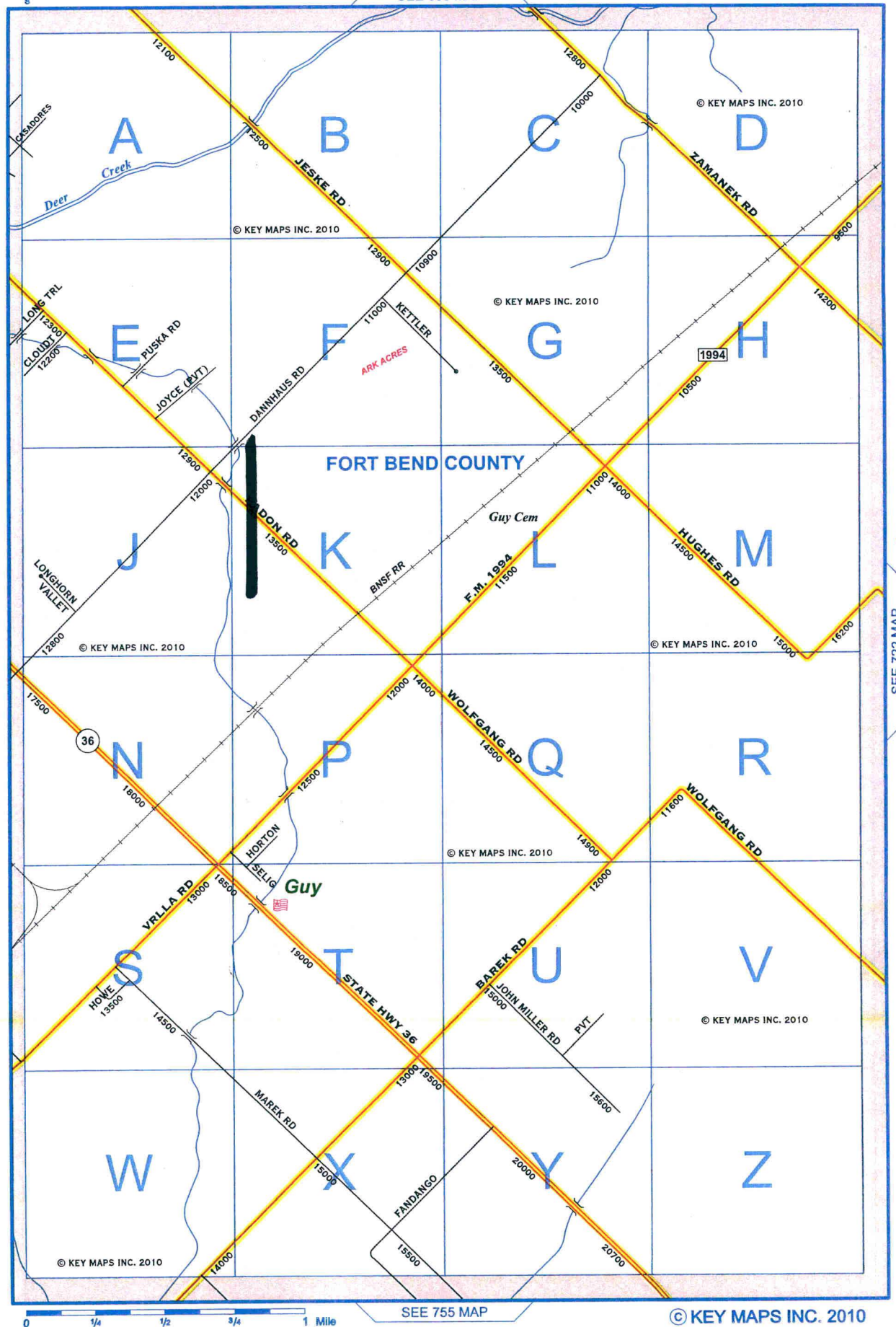


DRAWING ISSUES	CONSTRUCTION	LAST ORG.			
	BIDS	LAST ORG.			
	APPROVAL	LAST ORG.			
	INFORMATION	LAST ORG.			
	ISSUED FOR:	SIGNATURE	DATE	REV.	
DRAWING APPROVALS	DRAWN:	MP	DATE:	11/09/12	
	CHECKED:	JCL	DATE:	11/09/12	
	ENGINEER:		DATE:		
	W.E.I.:		DATE:		
	CLIENT:		DATE:		
	CLIENT:		DATE:		

ROAD CROSSING PERMIT

SEAWAY CRUDE PL COMPANY LLC
PADDON ROAD
FORT BEND COUNTY, TX

SCALE	PROJECT NO.	DRAWING NO.	SHEET	REV.
1"=100'	52068	TX-FB-0231.00010	1 OF 1	A



FORT BEND COUNTY, TEXAS

THE CONTRACTOR MUST NOTIFY COUNTY ENGINEERING 48 HOURS PRIOR TO CONSTRUCTION GIVING THE NAME OF THE CONSTRUCTION COMPANY, THE NAME AND NUMBER OF AN ON SITE SUPERVISOR, AND THE INTENDED START DATE. THE CONTRACTOR MUST NOTIFY THE PERMIT AGENT 48 HOURS PRIOR TO CONSTRUCTION TO ACCESS THE "UIR" PROGRAM AND GIVE 48 HOURS NOTICE INCLUDING IN THE COMMENTS BOX - THE CONSTRUCTION COMPANY NAME, CONTACT PERSON'S NAME, CELL NUMBER, AND START DATE.
ALL ROAD BORES SHALL BE ACCOMPLISHED WITH THE CONVENTIONAL DRY AUGER, UNLESS OTHERWISE APPROVED BY A COUNTY ENGINEERING INSPECTOR, MAINTENANCE SUPERVISOR, OR AREA ENGINEER.

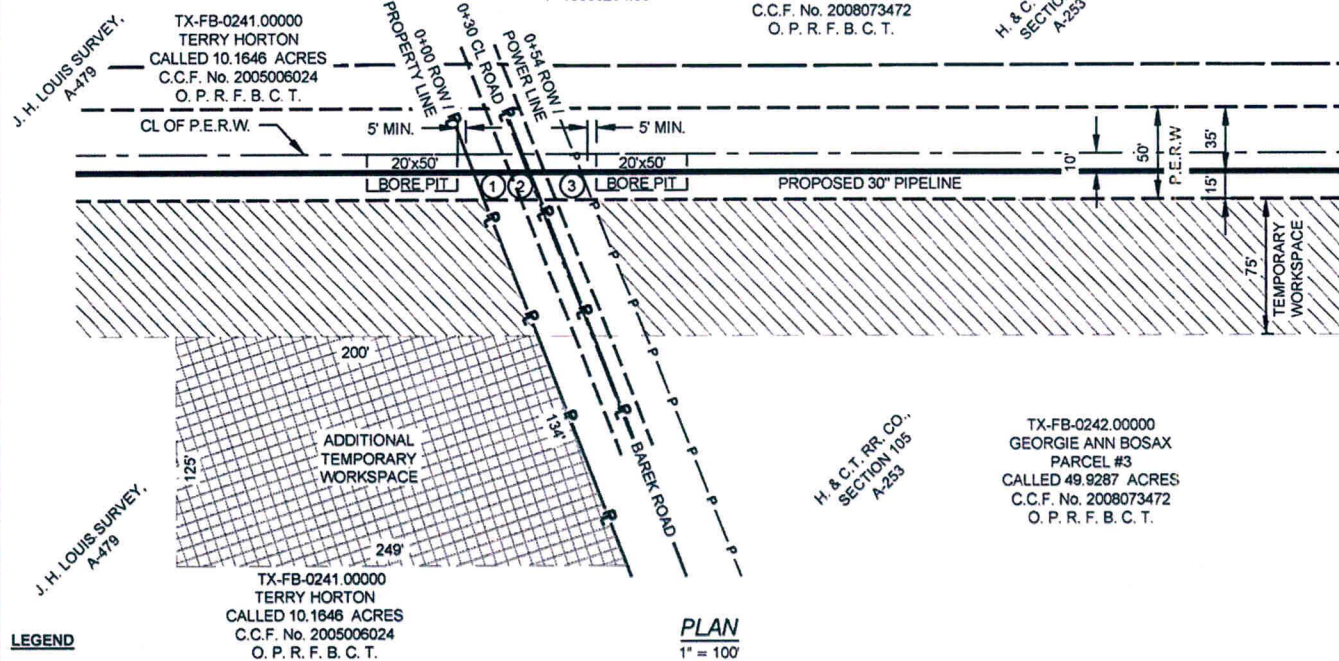
1. IN CURB/GUTTER STREETS, PIPELINE IS TO BE INSERTED AT A 2' MIN. BELOW THE SLAB.
2. ALL MINIMUM DEPTH REQUIREMENTS MEASURED AT THE TOP OF PIPE OR CASING.
3. A MIN. OF 30' OF CLEARANCE FROM NEAREST TRAFFIC LANE IS REQUIRED FOR BORE PITS.

LOCATION COORDINATES

1. X=2671624.62
Y=10663347.70
2. X=2671638.13
Y=10663320.93
3. X=2671651.38
Y=10663294.66

TX-FB-0242.00000
GEORGIE ANN BOSAX
PARCEL #3
CALLED 49.9287 ACRES
C.C.F. No. 2008073472
O. P. R. F. B. C. T.

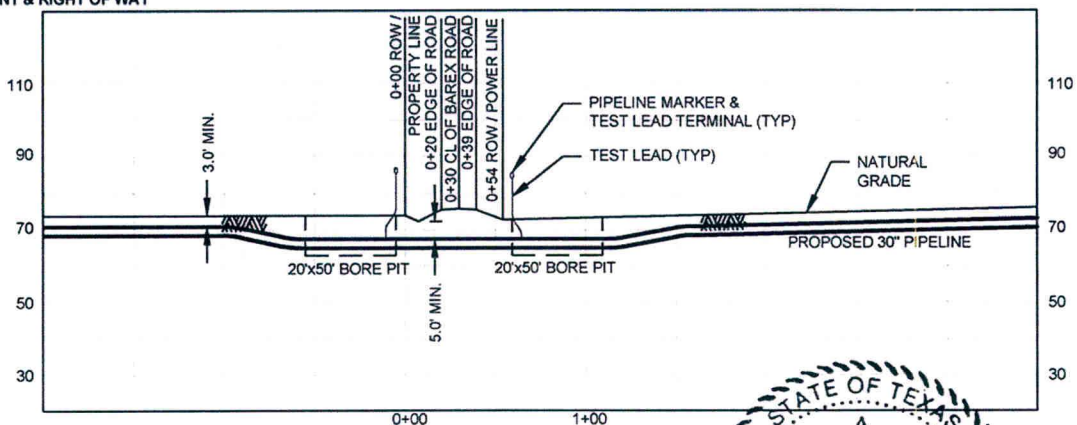
VICINITY MAP
N.T.S.



PLAN
1" = 100'

LEGEND

P.E.R.W. PERMANENT EASEMENT & RIGHT OF WAY
N.T.S. NOT TO SCALE
ROW RIGHT OF WAY
MIN. MINIMUM
EXISTING PIPELINE
P POWER LINE
FENCE



IMPROVED ROAD - BORE METHOD
PROFILE
1" = 10' H
1" = 50' V

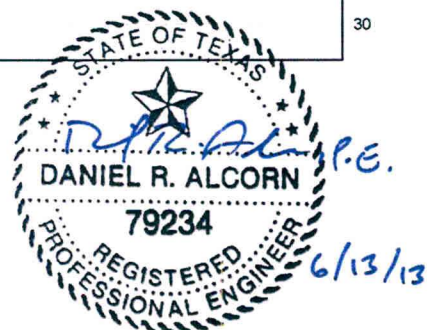
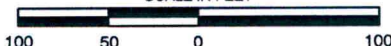
PIPE SPECIFICATIONS

CONTENTS: CRUDE OIL
DESIGN FACTOR: 0.72
CARRIER PIPE: 30" O.D., 0.618" W.L., API 5L X70, DSAW, PSL2
COATING: 15-22 MILS FBE & 30-40 MILS ARO
M.O.P.: 1,440 PSIG
PIPELINE CATHODICALLY PROTECTED
METHOD OF INSTALLATION: CONVENTIONAL BORE

NOTE:

1. DATUM BASED ON TEXAS STATE PLANE COORDINATE SYSTEM, UTM NAD 83, ZONE 14N, NAVD 88, DERIVED FROM GPS OBSERVATION.
2. EXISTING UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS GENERATED FROM PREVIOUS MAPS AND SURVEY. CONTRACTOR SHALL VERIFY EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES IN AREA OF WORK PRIOR TO CONSTRUCTION AND CALL TEXAS ONE CALL SYSTEM AT 1-800-245-4545 AND ALL OTHER UTILITY COMPANIES AT LEAST 2 WORKING DAYS (48 HOURS) PRIOR TO CONSTRUCTION

SCALE IN FEET



I, Daniel R. Alcorn, Registered Professional Engineer in the State of Texas, P.E. No. 79234, an employee of BILFINGER TEPSCO INC., Texas Firm No. F-4689, have reviewed the pipeline design and pipe testing specifications of this permit and have found them accurate and suitable for the proposed project. Pipeline routing is based on information provided by others. Actual construction routing, both open cut and bore sections, may vary as required for safety, constructability, or for other engineering reasons. ALL UNDERGROUND UTILITIES, WHETHER SHOWN ON THESE DRAWINGS OR NOT, SHOULD BE LOCATED BY THE CONTRACTOR AT LEAST 48 HOURS PRIOR TO DIGGING, TRENCHING, OR BORING.

I attest ONLY to the engineering aspects of the pipeline, and DO NOT attest to the accuracy, completeness, usefulness, or correctness of other aspects of the project, including but not limited to, survey, right-of-way, property ownership determination, and location of existing facilities that are the responsibility of other parties.

NO.	DATE	REVISION	BY	CHK	APPR	APPR	APPR
A	7/25/12	ISSUED FOR REVIEW	DT	JAW	JLC		

Seaway Crude
PIPELINE COMPANY LLC

WILLBROS ENGINEERS (U.S.) LLC
4400 Post Oak Parkway
Houston, TX, 77027
(713) 403-8000 TX-F-82

DRAWING ISSUES	CONSTRUCTION	LAST	DATE	REV.
	BIDS	LAST	DATE	REV.
DRAWING APPROVALS	APPROVAL	LAST	DATE	REV.
	INFORMATION	LAST	DATE	REV.
ISSUED FOR: SIGNATURE DATE REV.				
DRAWN: DT DATE: 10-30-12				
CHECKED: JAW DATE:				
ENGINEER: DATE:				
W.E.I.: DATE:				
CLIENT: DATE:				
CLIENT: DATE:				

ROAD CROSSING PERMIT				
SEAWAY CRUDE PL COMPANY LLC				
BAREK ROAD				
FORT BEND COUNTY, TX				
SCALE	PROJECT NO.	DRAWING NO.	SHEET	REV.
1"=100'	52068	TX-FB-0241.00010	1 OF 1	A



**NOTICE OF PROPOSED CABLE, CONDUIT AND/OR POLE LINE ACTIVITY
IN, UNDER, ACROSS OR ALONG ROADS, STREETS, HIGHWAYS AND DRAINAGE DITCHES
IN FORT BEND COUNTY**

APPLICANT'S JOB NO. _____
 PERMIT No. 54302 PCT. No. 1
 BOND No. 541121825

Formal notice is hereby given that Seaway Crude Pipeline Company LLC
 proposes to lay, construct, maintain and/or repair cable, conduit and/or pole line, in, under,
 across, or along roads, streets, highways and drainage ditches in Fort Bend County, as follows:

In, Under, or Across Roads and/or Drainage Ditches

Road or Ditch Name	Distance & Direction From Nearest Intersection	Length of Crossing	Type of Construction			
			Bored	Jacked	Driven	Cased
See, attached	:	:	:	:	:	:
:	:	:	:	:	:	:
:	:	:	:	:	:	:

Along Roads and/or Drainage Ditches

Road or Ditch Name	Distance & Direction From Nearest Intersection	To	Distance
:	:	:	:
:	:	:	:
:	:	:	:

General Description

The Location and description of the proposed installation and appurtenances is more fully shown on the attached detail drawings. The laying, construction, maintenance and/or repair of the proposed installation shall be subject to "A Revised Order Regulating the Laying, Construction, Maintenance and/or Repair of Cables, Conduits, and/or 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 Commissioners Court of Fort Bend County, Texas, dated the 3rd. day of August, 1987, recorded in Volume 639 of the Minutes of the Commissioners Court of Fort Bend County, Texas.

Written notices are required: 1) 48 hours in advance of start of construction and
 2) when construction is complete and ready for final inspection.

Mail to: Permit Administrator/Fort Bend County Engineering
 P.O. Box 1448, Rosenberg, TX 77471.

Violation of requirements shall constitute grounds for job shut down.

COMPANY NAME: Seaway Crude Pipeline Company LLC
 AGENT and/or OWNER

B. R. Sublet
 (Signature)

NAME & TITLE Bruce R. Sublet, Permit Agent
 (Please Print)

DATE 6/14/13

ADDRESS 4601 Avenue H, Suite # 12
 (Street/P.O. Box)

Rosenberg TX 77471
 City State Zip

TELEPHONE NO: (971) 241-1455 brsublet63@hotmail.com
 (accessible 24 hrs/day, 7 days/week)

Does project
 comply with Fort
 Bend County
 Outdoor Lighting
 Ordinance?

Yes ()

No ()

Fort Bend County Creeks and Drainage Ditches

Tract Number	Permit Type	Feature ID	Distance & Direction From Nearest Intersection	Length of Crossing	Type of Construction
TX-FB-0123.00030	Creek	Flewellan Ditch/11-E-10B		80 feet	Open Cut
TX-FB-0128.00030	Creek	Sugarland Ditch/II-DD		94 feet	Open Cut
TX-FB-0130.00030	Creek	Sugarland Ditch/ II - DD		89 feet	Open Cut
TX-FB-0132.00130	Creek	Robinowitz Ditch/ II-M		76 feet	Open Cut
TX-FB-0133.00030	Creek	Seabourn Creek/ II-B-4		60 feet	Open Cut
TX-FB-0134.00030	Creek	Ft. Bend Drainage		60 feet	Open Cut
TX-FB-0137.00030	Creek	Coon Creek/II-B-3		110 feet	Open Cut
TX-FB-0137.00031	Creek	Coon Creek/II-B-3		92 feet	Open Cut
TX-FB-0166.00030	Creek	Cottonwood Creek/II-B-3		116 feet	Open Cut
TX-FB-0173.00030	Creek	Creek/II-B-6		118 feet	Open Cut
TX-FB-0178.00030	Creek	Creek/II-B 10 B		74 feet	Open Cut
TX-FB-0199.00030	Creek	Creek/II-B 10		120 feet	Open Cut
TX-FB-0218.00030	Creek	Deer Creek/II-B-5		118 feet	Open Cut
TX-FB-0227.00030	Creek	Creek/I-A-1		84 feet	Open Cut
TX-FB-0231.00030	Creek	Creek/I-A-1		102 feet	Open Cut
TX-FB-0249.00030	Creek	Creek/I-A-2		58 feet	Open Cut

Exhibit A
High Pressure Pipeline - 60 PSI or over
Liquid Pipeline
Project: Enterprise Seaway Segments 3 and 4

Carrier Pipe

1. Diameter, inch 30.000

2. Wall Thickness, inch 0.429

3. Material Specifications API-5L-X70

4. Specified Minimum
Yield Strength, psi 70,000

5. Maximum Operating
Pressure, psig 1440

Casing Pipe

1. Diameter NA

2. Wall Thickness NA

3. Material
Specifications NA

4. Specified
Minimum Yield NA

5. Maximum
Operating NA

The pipeline material and design must meet the minimum Federal Safety Standards for Liquid Pipelines, Code of Federal Regulations - Part 195 and Design Subpart C - 195.106.

Calculations:

$$t = PD/2SEF$$

$$t_{min} = \frac{(P \times D)}{2(S \times E \times F)}$$

$$t_{min} = \frac{(1440 \times 30.000)}{2(70,000 \times 0.72 \times 1.0)}$$

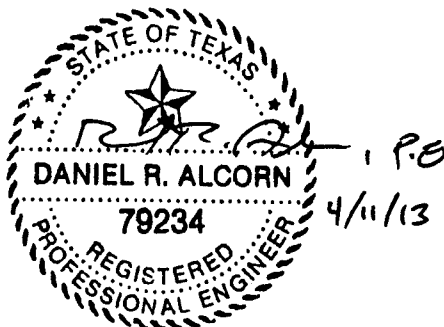
P =	1440	MOP, psi
D =	30.000	Pipe OD, inches
S =	70000	SMYS, psi
F =	0.72	Design Factor (49 CFR 195.106)
E =	1.0	Seam Joint Factor (49 CFR 195.106)
t _{min} =	0.4286	Calculated minimum wall thickness, inches
t _{actual} =	0.4290	Pipe wall thickness, inches

$t_{actual} \geq t_{min}$

Since the actual thickness of the pipe is greater than the required wall thickness, the crossing pipe is adequate.

Daniel R. Alcorn, P.E.
 Engineer's Signature

April 11, 2013
 Date



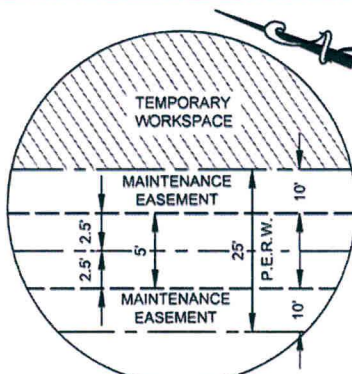
FORT BEND COUNTY, TEXAS

THE CONTRACTOR MUST NOTIFY DISTRICT ENGINEER 48 HOURS PRIOR TO CONSTRUCTION GIVING THE NAME OF THE CONSTRUCTION COMPANY, THE NAME AND NUMBER OF AN ON SITE SUPERVISOR, AND THE INTENDED START DATE. THE CONTRACTOR MUST NOTIFY THE PERMIT AGENT 48 HOURS PRIOR TO CONSTRUCTION TO ACCESS THE "UIR" PROGRAM AND GIVE 48 HOURS NOTICE INCLUDING IN THE COMMENTS BOX - THE CONSTRUCTION COMPANY NAME, CONTACT PERSON'S NAME, CELL NUMBER, AND START DATE.
ALL ROAD BORES SHALL BE ACCOMPLISHED WITH THE CONVENTIONAL DRY AUGER, UNLESS OTHERWISE APPROVED BY A COUNTY ENGINEERING INSPECTOR, MAINTENANCE SUPERVISOR, OR AREA ENGINEER.

1. ALL MINIMUM DEPTH REQUIREMENTS MEASURED AT THE TOP OF PIPE OR CASING.

LEGEND

P.E.R.W. PERMANENT EASEMENT & RIGHT OF WAY
N.T.S. NOT TO SCALE
ROW RIGHT OF WAY
TOB TOP OF BANK
F.M. FARM TO MARKET
MIN. MINIMUM
EXISTING PIPELINE
P POWER LINE

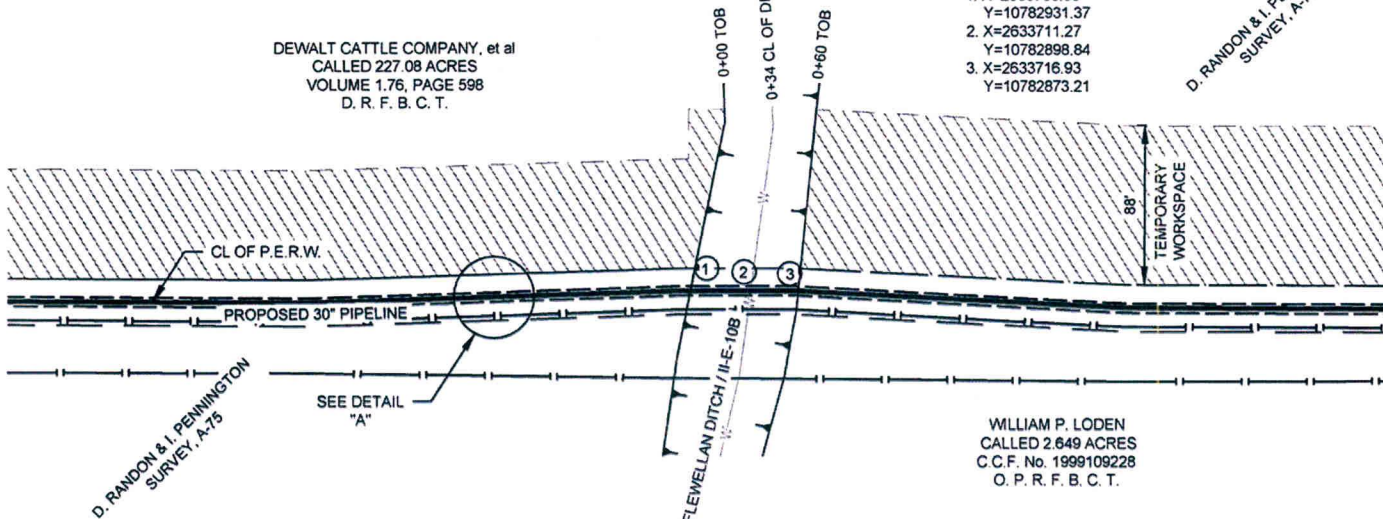


VICINITY MAP
N.T.S.

- LOCATION COORDINATES
1. X=2633703.95
Y=10782931.37
 2. X=2633711.27
Y=10782898.84
 3. X=2633716.93
Y=10782873.21

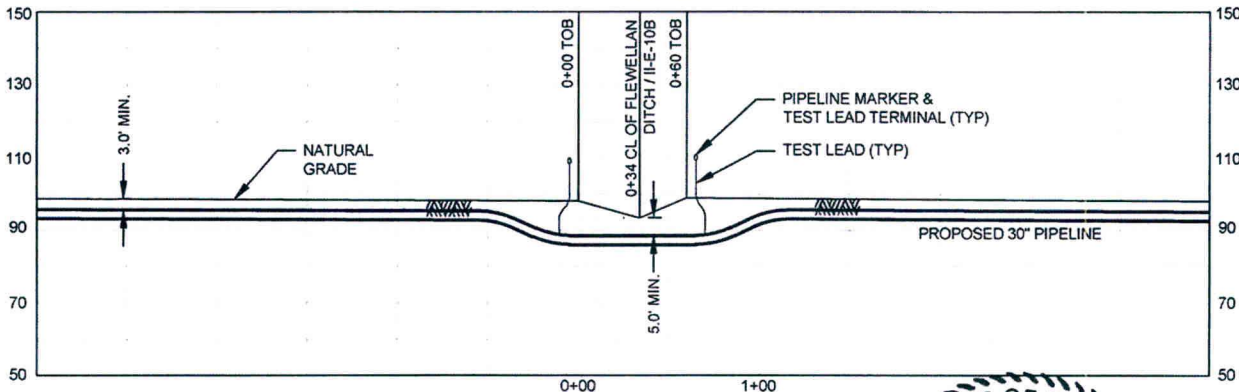
DEWALT CATTLE COMPANY, et al
CALLED 227.08 ACRES
VOLUME 1.76, PAGE 598
D. R. F. B. C. T.

D. RANDON & I. PENNINGTON
SURVEY, A-75



WILLIAM P. LODEN
CALLED 2.649 ACRES
C.C.F. No. 1999109228
O. P. R. F. B. C. T.

PLAN
1" = 100'



PROFILE
1" = 100' H
1" = 50' V

PIPE SPECIFICATIONS

CONTENTS: CRUDE OIL
DESIGN FACTOR: 0.72
CARRIER PIPE: 30" O.D., 0.429" W.T., API 5L X70, DSAW, PSL2
COATING: 15-22 MILS FBE
M.O.P.: 1,440 PSIG
PIPELINE CATHODICALLY PROTECTED
METHOD OF INSTALLATION: OPEN CUT

NOTE:

1. DATUM BASED ON TEXAS STATE PLANE COORDINATE SYSTEM, UTM NAD 83, ZONE 14N, NAVD 88, DERIVED FROM GPS OBSERVATION.
2. EXISTING UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS GENERATED FROM PREVIOUS MAPS AND SURVEY. CONTRACTOR SHALL VERIFY EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES IN AREA OF WORK PRIOR TO CONSTRUCTION AND CALL TEXAS ONE CALL SYSTEM AT 1-800-245-4545 AND ALL OTHER UTILITY COMPANIES AT LEAST 2 WORKING DAYS (48 HOURS) PRIOR TO CONSTRUCTION

SCALE IN FEET



6/13/13

I, Daniel R. Alcorn, Registered Professional Engineer in the State of Texas, P.E. No. 79234, an employee of BILFINGER TEPSCO INC., Texas Firm No. F-4669, have reviewed the pipeline design and pipe testing specifications of this permit and have found them accurate and suitable for the proposed project. Pipeline routing is based on information provided by others. Actual construction routing, both open cut and bore sections, may vary as required for safety, constructability, or for other engineering reasons. ALL UNDERGROUND UTILITIES, WHETHER SHOWN ON THESE DRAWINGS OR NOT, SHOULD BE LOCATED BY THE CONTRACTOR AT LEAST 48 HOURS PRIOR TO DIGGING, TRENCHING, OR BORING.

I attest ONLY to the engineering aspects of the pipeline, and DO NOT attest to the accuracy, completeness, usefulness, or correctness of other aspects of the project, including but not limited to, survey, right-of-way, property ownership determination, and location of existing facilities that are the responsibility of other parties.

NO.	DATE	REVISION	BY	CHK	APPR	APPR	APPR
A	12/3/12	ISSUED FOR REVIEW	AJ	JCL	JAW		



DRAWING ISSUES	CONSTRUCTION	LAST	DATE	REV.
	BIDS	LAST	DATE	REV.
DRAWING APPROVALS	APPROVAL	LAST	DATE	REV.
	INFORMATION	LAST	DATE	REV.
	ISSUED FOR:	SIGNATURE	DATE	REV.
	DRAWN:	AJ	DATE: 12/3/12	
	CHECKED:	JCL	DATE: 12/3/12	
	ENGINEER:		DATE:	
	W.E.I.:		DATE:	
	CLIENT:		DATE:	
	CLIENT:		DATE:	

CREEK CROSSING PERMIT

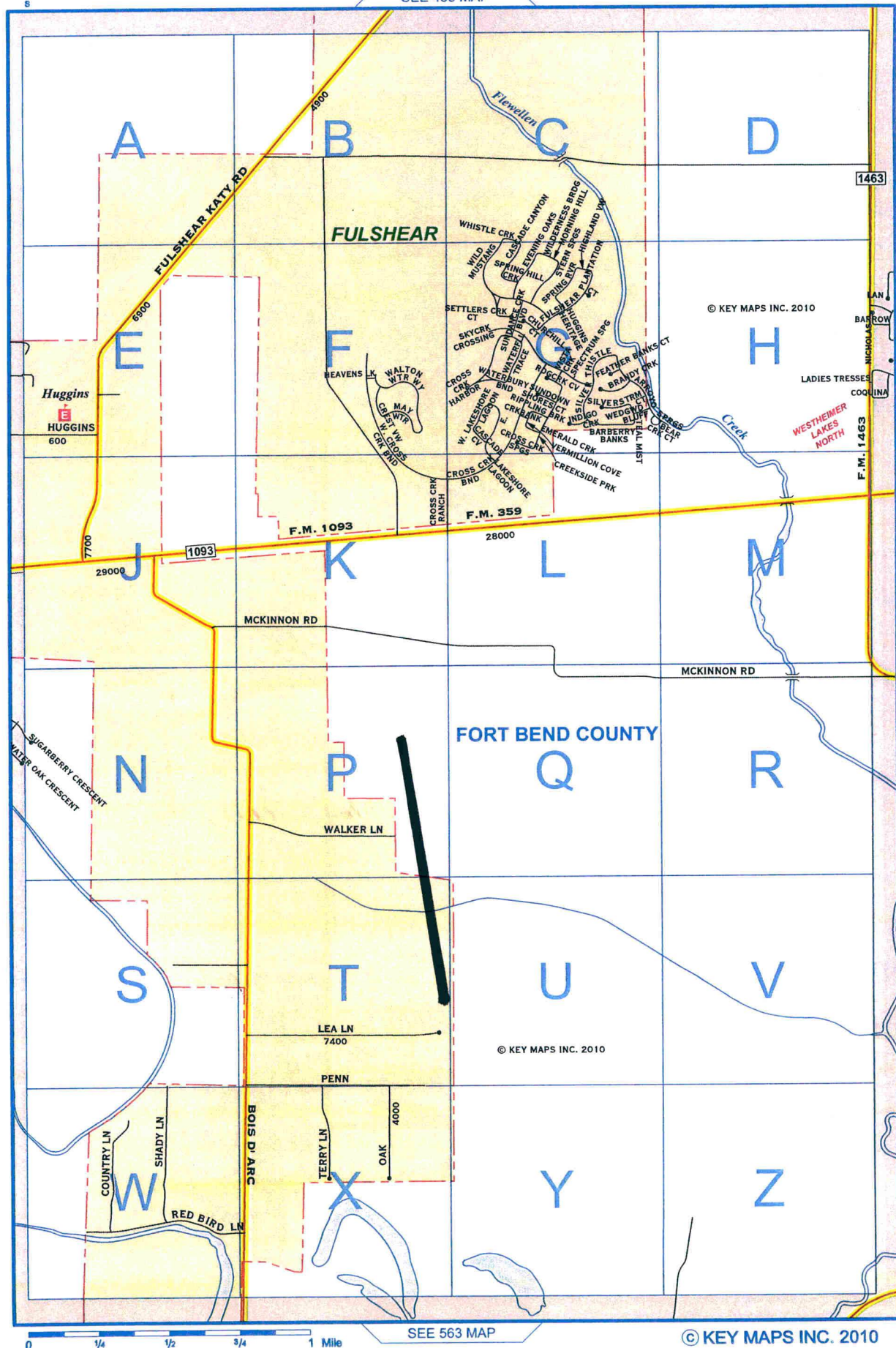
SEAWAY CRUDE PL COMPANY LLC
FLEWELLAN DITCH / II-E-10B
FORT BEND COUNTY, TX

SCALE	PROJECT NO.	DRAWING NO.	SHEET	REV.
1"=100'	52068	TX-FB-0123.00030	1 OF 1	A



SEE 483 MAP

523



SEE 563 MAP

© KEY MAPS INC. 2010

FORT BEND COUNTY, TEXAS

THE CONTRACTOR MUST NOTIFY DISTRICT ENGINEER 48 HOURS PRIOR TO CONSTRUCTION GIVING THE NAME OF THE CONSTRUCTION COMPANY, THE NAME AND NUMBER OF AN ON SITE SUPERVISOR, AND THE INTENDED START DATE. THE CONTRACTOR MUST NOTIFY THE PERMIT AGENT 48 HOURS PRIOR TO CONSTRUCTION TO ACCESS THE "UIR" PROGRAM AND GIVE 48 HOURS NOTICE INCLUDING IN THE COMMENTS BOX - THE CONSTRUCTION COMPANY NAME, CONTACT PERSON'S NAME, CELL NUMBER, AND START DATE.
ALL ROAD BORES SHALL BE ACCOMPLISHED WITH THE CONVENTIONAL DRY AUGER, UNLESS OTHERWISE APPROVED BY A COUNTY ENGINEERING INSPECTOR, MAINTENANCE SUPERVISOR, OR AREA ENGINEER.

1. ALL MINIMUM DEPTH REQUIREMENTS MEASURED AT THE TOP OF PIPE OR CASING.

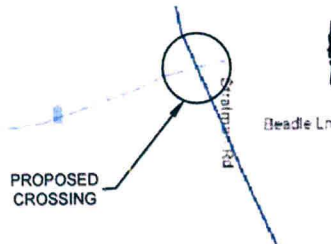
LEGEND

P.E.R.W. PERMANENT EASEMENT & RIGHT OF WAY
N.T.S. NOT TO SCALE
ROW RIGHT OF WAY
TOB TOP OF BANK
F.M. FARM TO MARKET
MIN. MINIMUM
EXISTING PIPELINE
P POWER LINE
x FENCE

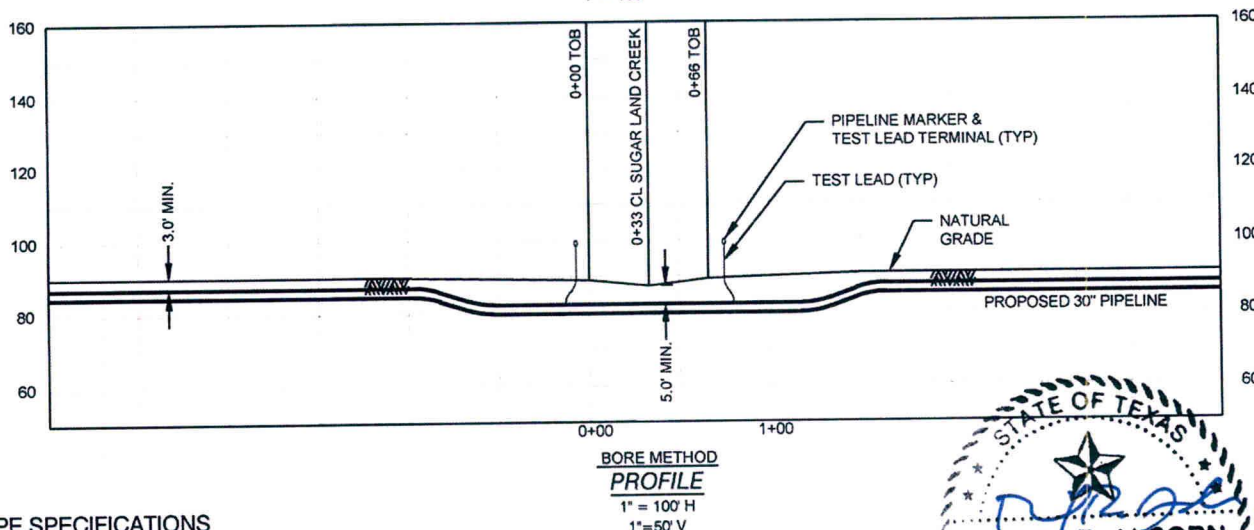
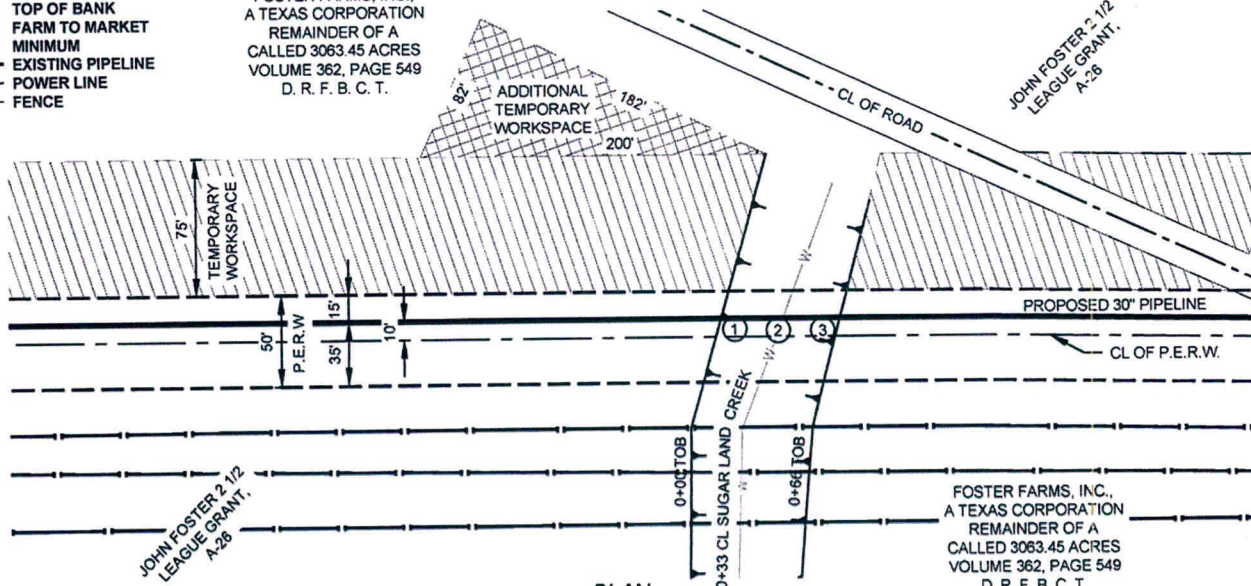
FOSTER FARMS, INC.,
A TEXAS CORPORATION
REMAINDER OF A
CALLED 3063.45 ACRES
VOLUME 362, PAGE 549
D. R. F. B. C. T.

LOCATION COORDINATES

1. X=2637856.73
Y=10764344.79
2. X=2637872.04
Y=10764314.15
3. X=2637886.12
Y=10764285.95



VICINITY MAP
N.T.S.



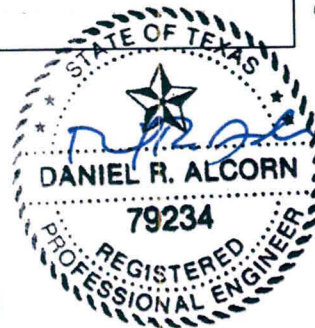
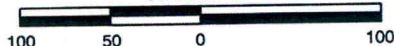
PIPE SPECIFICATIONS

CONTENTS: CRUDE OIL
DESIGN FACTOR: 0.72
CARRIER PIPE: 30"Ø, 0.429" w.t., API 5L X70,
DSAW, PSL2
COATING: 15-22 MILS FBE
M.O.P.: 1,440 PSIG
PIPELINE CATHODICALLY PROTECTED
METHOD OF INSTALLATION: OPEN CUT

NOTE:

1. DATUM BASED ON TEXAS STATE PLANE COORDINATE SYSTEM, UTM NAD 83, ZONE 14N, NAVD 88, DERIVED FROM GPS OBSERVATION.
2. EXISTING UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS GENERATED FROM PREVIOUS MAPS AND SURVEY. CONTRACTOR SHALL VERIFY EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES IN AREA OF WORK PRIOR TO CONSTRUCTION AND CALL TEXAS ONE CALL SYSTEM AT 1-800-245-4545 AND ALL OTHER UTILITY COMPANIES AT LEAST 2 WORKING DAYS (48 HOURS) PRIOR TO CONSTRUCTION

SCALE IN FEET



I, Daniel R. Alcorn, Registered Professional Engineer in the State of Texas, P.E. No. 79234, an employee of BILFINGER TEPSCO INC., Texas Firm No. F-4689, have reviewed the pipeline design and pipe testing specifications of this permit and have found them accurate and suitable for the proposed project. Pipeline routing is based on information provided by others. Actual construction routing, both open cut and bore sections, may vary as required for safety, constructability, or for other engineering reasons. ALL UNDERGROUND UTILITIES, WHETHER SHOWN ON THESE DRAWINGS OR NOT, SHOULD BE LOCATED BY THE CONTRACTOR AT LEAST 48 HOURS PRIOR TO DIGGING, TRENCHING, OR BORING.

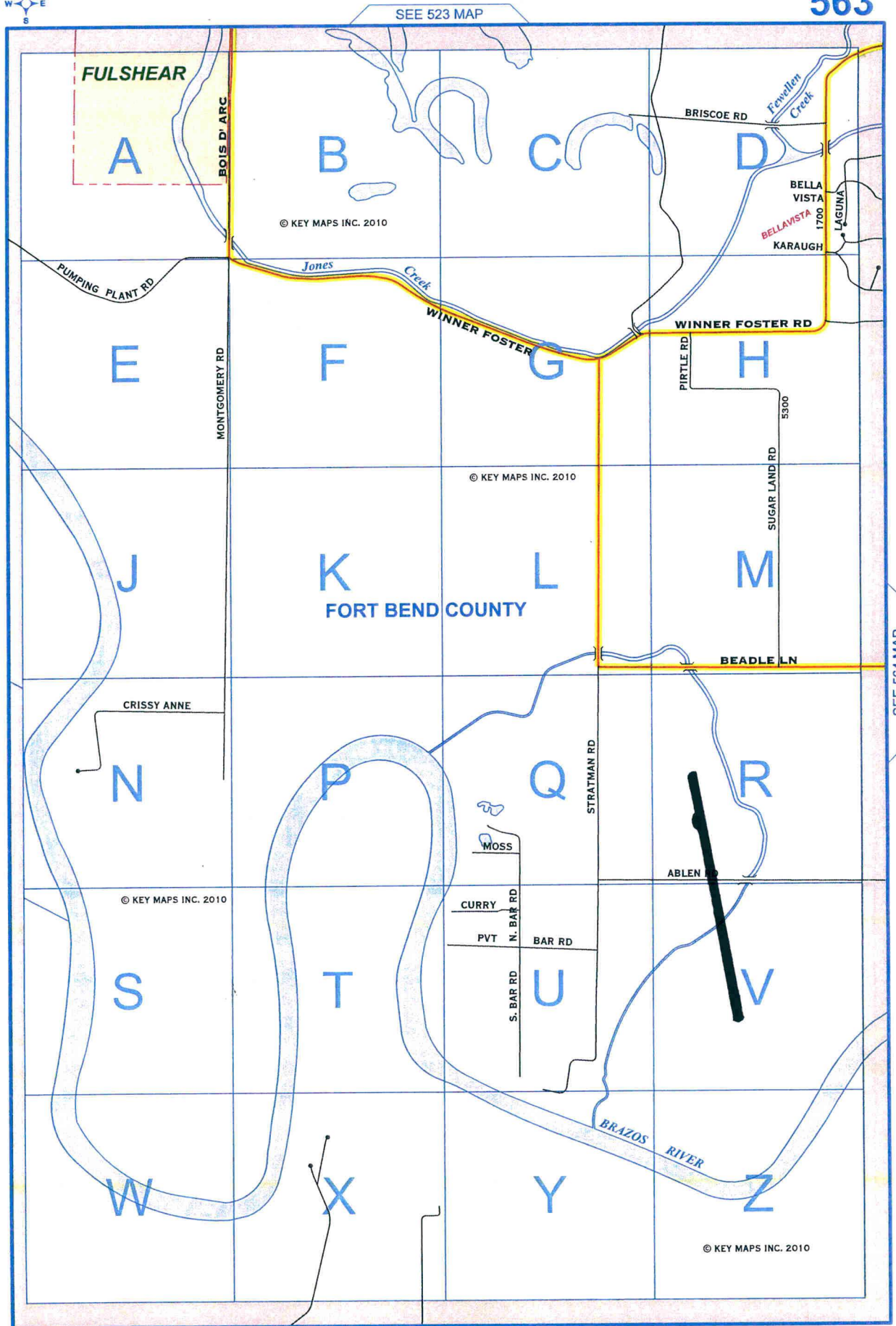
I attest ONLY to the engineering aspects of the pipeline, and DO NOT attest to the accuracy, completeness, usefulness, or correctness of other aspects of the project, including but not limited to, survey, right-of-way, property ownership determination, and location of existing facilities that are the responsibility of other parties.

6/13/13

NO.	DATE	REVISION	BY	CHK	APPR	APPR	APPR
A	12/10/12	ISSUED FOR REVIEW	MP	JCL	JAW		

 SEAWAY CRUDE PIPELINE COMPANY LLC	DRAWING ISSUES	CONSTRUCTION	LAST				
		BIDS	LAST				
 WILLBROS ENGINEERS (U.S.) LLC 4400 Post Oak Parkway Houston, TX. 77027 (713) 403-8000 TX-F-82	DRAWING APPROVALS	APPROVAL	LAST				
		INFORMATION	LAST				
		ISSUED FOR:	SIGNATURE	DATE	REV.		
		DRAWN:	MP	DATE: 12/10/12			
		CHECKED:	JCL	DATE: 12/10/12			
		ENGINEER:		DATE:			
		W.E.I.:		DATE:			
		CLIENT:		DATE:			
		CLIENT:		DATE:			

CREEK CROSSING PERMIT				
SEAWAY CRUDE PL COMPANY LLC				
SUGAR LAND CREEK II-DD				
FORT BEND COUNTY, TX				
SCALE	PROJECT NO.	DRAWING NO.	SHEET	REV.
1"=100'	52068	TX-FB-0128.00030	1 OF 1	A



FORT BEND COUNTY, TEXAS

THE CONTRACTOR MUST NOTIFY DISTRICT ENGINEER 48 HOURS PRIOR TO CONSTRUCTION GIVING THE NAME OF THE CONSTRUCTION COMPANY, THE NAME AND NUMBER OF AN ON SITE SUPERVISOR, AND THE INTENDED START DATE. THE CONTRACTOR MUST NOTIFY THE PERMIT AGENT 48 HOURS PRIOR TO CONSTRUCTION TO ACCESS THE "UIR" PROGRAM AND GIVE 48 HOURS NOTICE INCLUDING IN THE COMMENTS BOX - THE CONSTRUCTION COMPANY NAME, CONTACT PERSON'S NAME, CELL NUMBER, AND START DATE.

ALL ROAD BORES SHALL BE ACCOMPLISHED WITH THE CONVENTIONAL DRY AUGER, UNLESS OTHERWISE APPROVED BY A COUNTY ENGINEERING INSPECTOR, MAINTENANCE SUPERVISOR, OR AREA ENGINEER.

1. ALL MINIMUM DEPTH REQUIREMENTS MEASURED AT THE TOP OF PIPE OR CASING.

LEGEND

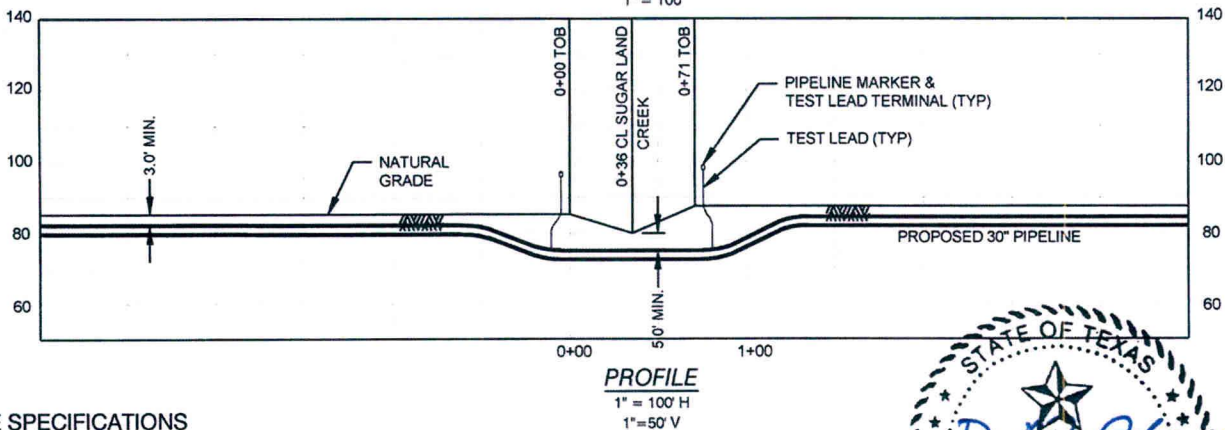
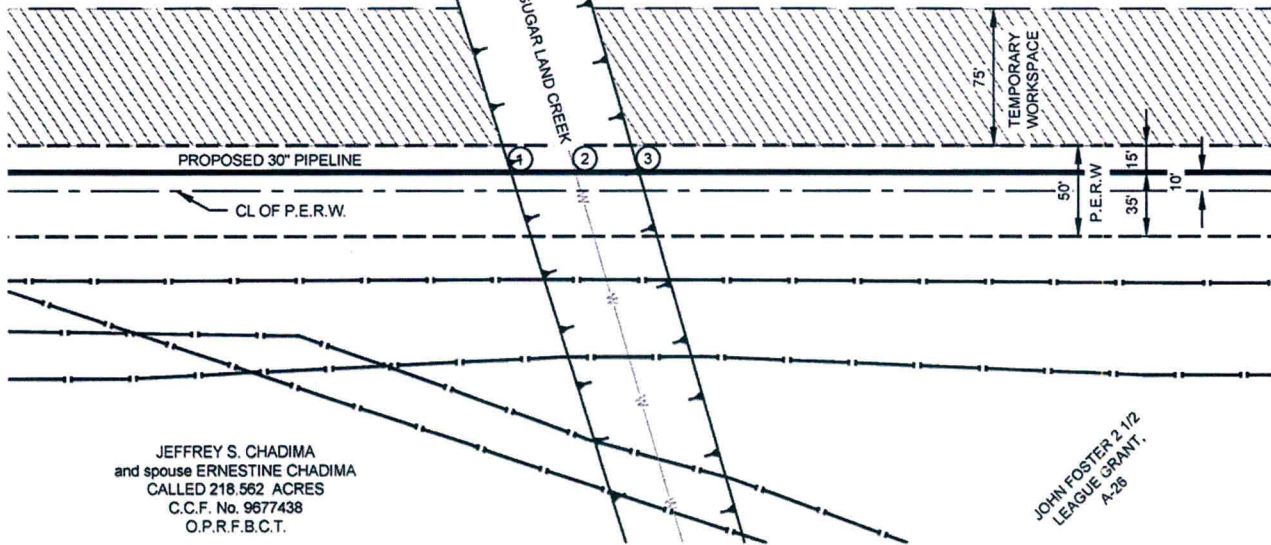
P.E.R.W. PERMANENT EASEMENT & RIGHT OF WAY
N.T.S. NOT TO SCALE
ROW RIGHT OF WAY
TOB TOP OF BANK
F.M. FARM TO MARKET
MIN. MINIMUM
EXISTING PIPELINE
P POWER LINE
X FENCE

PROPOSED CROSSING

VICINITY MAP
N.T.S.

LOCATION COORDINATES
1. X=2640150.88
Y=10759053.88
2. X=2640157.72
Y=10759019.04
3. X=2640164.53
Y=10758984.34

JEFFREY S. CHADIMA
and spouse ERNESTINE CHADIMA
CALLED 218.562 ACRES
C.C.F. No. 9677438
O.P.R.F.B.C.T.



PIPE SPECIFICATIONS

CONTENTS: CRUDE OIL
DESIGN FACTOR: 0.72
CARRIER PIPE: 30" O.D., 0.429" W.T., API 5L X70,
DSAW, PSL2
COATING: 15-22 MILS FBE
M.O.P.: 1,440 PSIG
PIPELINE CATHODICALLY PROTECTED
METHOD OF INSTALLATION: OPEN CUT

NOTE:

- DATUM BASED ON TEXAS STATE PLANE COORDINATE SYSTEM, UTM NAD 83, ZONE 14N, NAVD 88, DERIVED FROM GPS OBSERVATION.
- EXISTING UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS GENERATED FROM PREVIOUS MAPS AND SURVEY. CONTRACTOR SHALL VERIFY EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES IN AREA OF WORK PRIOR TO CONSTRUCTION AND CALL TEXAS ONE CALL SYSTEM AT 1-800-245-4545 AND ALL OTHER UTILITY COMPANIES AT LEAST 2 WORKING DAYS (48 HOURS) PRIOR TO CONSTRUCTION

SCALE IN FEET

100 50 0 100



I, Daniel R. Alcorn, Registered Professional Engineer in the State of Texas, P.E. No. 79234, an employee of BILFINGER TEPSCO INC., Texas Firm No. F-4669, have reviewed the pipeline design and pipe testing specifications of this permit and have found them accurate and suitable for the proposed project. Pipeline routing is based on information provided by others. Actual construction routing, both open cut and bore sections, may vary as required for safety, constructability, or for other engineering reasons. ALL UNDERGROUND UTILITIES, WHETHER SHOWN ON THESE DRAWINGS OR NOT, SHOULD BE LOCATED BY THE CONTRACTOR AT LEAST 48 HOURS PRIOR TO DIGGING, TRENCHING, OR BORING.

I attest ONLY to the engineering aspects of the pipeline, and DO NOT attest to the accuracy, completeness, usefulness, or correctness of other aspects of the project, including but not limited to, survey, right-of-way, property ownership determination, and location of existing facilities that are the responsibility of other parties.

NO.	DATE	REVISION	BY	CHK	APPR	APPR	APPR
A	05/02/13	ISSUED FOR REVIEW	SN	DT			

Seaway Crude
PIPELINE COMPANY LLC



WILLBROS ENGINEERS
(U.S.) LLC
4400 Post Oak Parkway
Houston, TX. 77027
(713) 403-8000 TX-F-82

DRAWING ISSUES	CONSTRUCTION	LAST	DATE	REV.
BIDS	LAST	DATE		
APPROVAL	LAST	DATE		
INFORMATION	LAST	DATE		
ISSUED FOR:	SIGNATURE	DATE		
DRAWN:	SN	DATE:	05/02/13	
CHECKED:	DT	DATE:	05/02/13	
ENGINEER:		DATE:		
W.E.I.:		DATE:		
CLIENT:		DATE:		
CLIENT:		DATE:		

CREEK CROSSING PERMIT

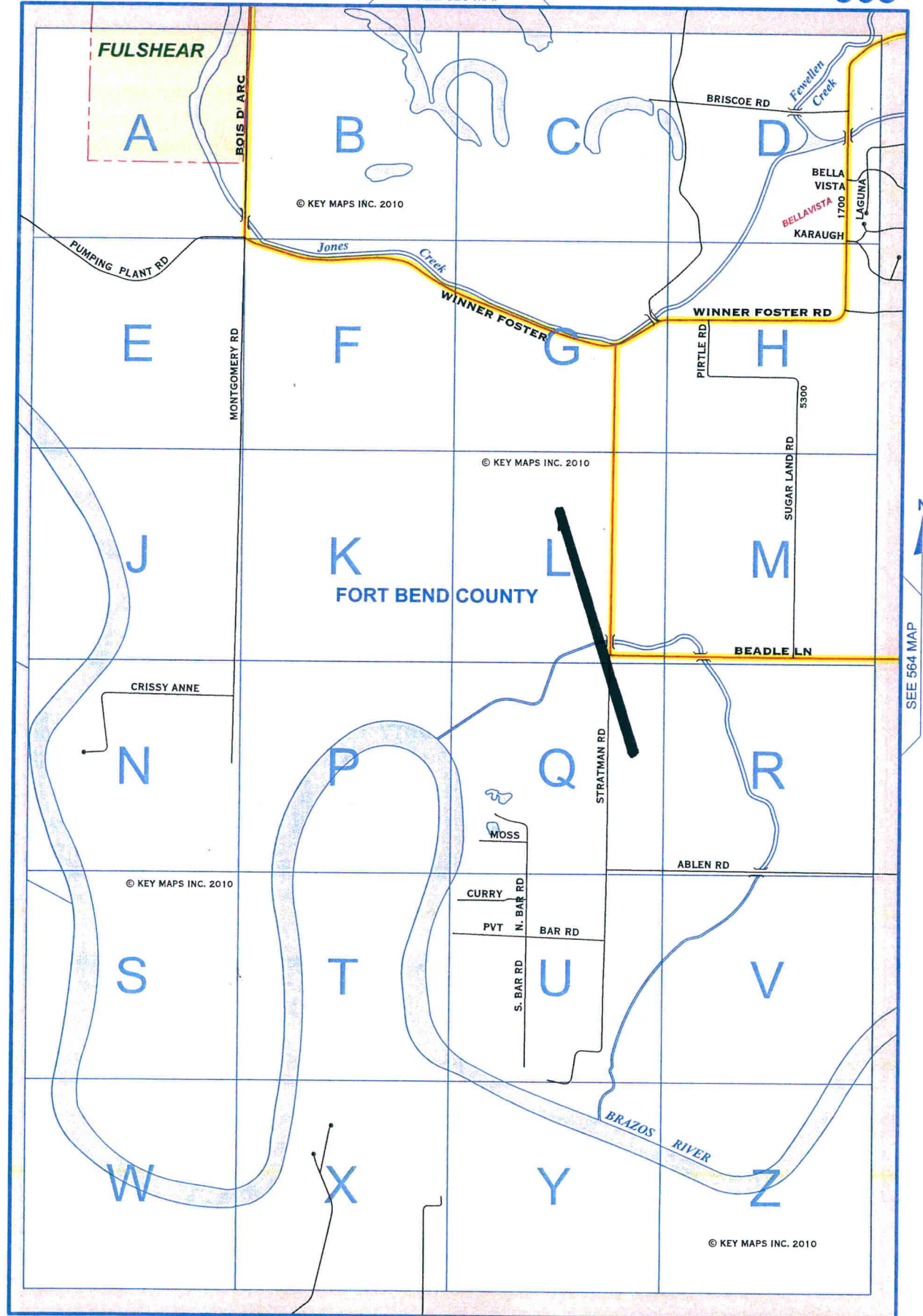
SEAWAY CRUDE PL COMPANY LLC
SUGAR LAND CREEK **II-DD**
FORT BEND COUNTY, TX

SCALE	PROJECT NO.	DRAWING NO.	SHEET	REV.
1"=100'	52068	TX-FB-0130.00030	1 OF 1	A



SEE 523 MAP

563



0 1/4 1/2 3/4 1 Mile

SEE 603 MAP

© KEY MAPS INC. 2010

SEE 564 MAP

FORT BEND COUNTY, TEXAS

THE CONTRACTOR MUST NOTIFY DISTRICT ENGINEER 48 HOURS PRIOR TO CONSTRUCTION GIVING THE NAME OF THE CONSTRUCTION COMPANY, THE NAME AND NUMBER OF AN ON SITE SUPERVISOR, AND THE INTENDED START DATE. THE CONTRACTOR MUST NOTIFY THE PERMIT AGENT 48 HOURS PRIOR TO CONSTRUCTION TO ACCESS THE "UIR" PROGRAM AND GIVE 48 HOURS NOTICE INCLUDING IN THE COMMENTS BOX - THE CONSTRUCTION COMPANY NAME, CONTACT PERSON'S NAME, CELL NUMBER, AND START DATE. ALL ROAD BORES SHALL BE ACCOMPLISHED WITH THE CONVENTIONAL DRY AUGER, UNLESS OTHERWISE APPROVED BY A COUNTY ENGINEERING INSPECTOR, MAINTENANCE SUPERVISOR, OR AREA ENGINEER.

1. ALL MINIMUM DEPTH REQUIREMENTS MEASURED AT THE TOP OF PIPE OR CASING.

LEGEND

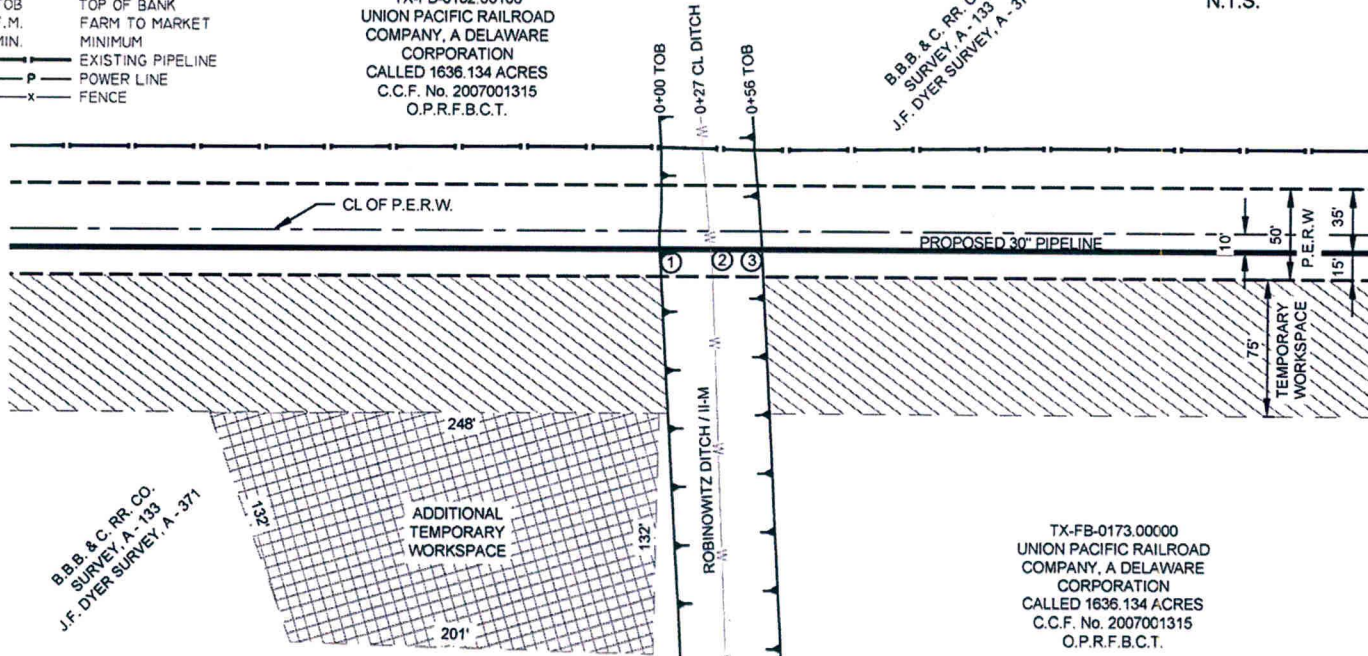
P.E.R.W. PERMANENT EASEMENT & RIGHT OF WAY
N.T.S. NOT TO SCALE
ROW RIGHT OF WAY
TOB TOP OF BANK
F.M. FARM TO MARKET
MIN. MINIMUM
EXISTING PIPELINE
P POWER LINE
X FENCE

TX-FB-0132.00100
UNION PACIFIC RAILROAD
COMPANY, A DELAWARE
CORPORATION
CALLED 1636.134 ACRES
C.C.F. No. 2007001315
O.P.R.F.B.C.T.

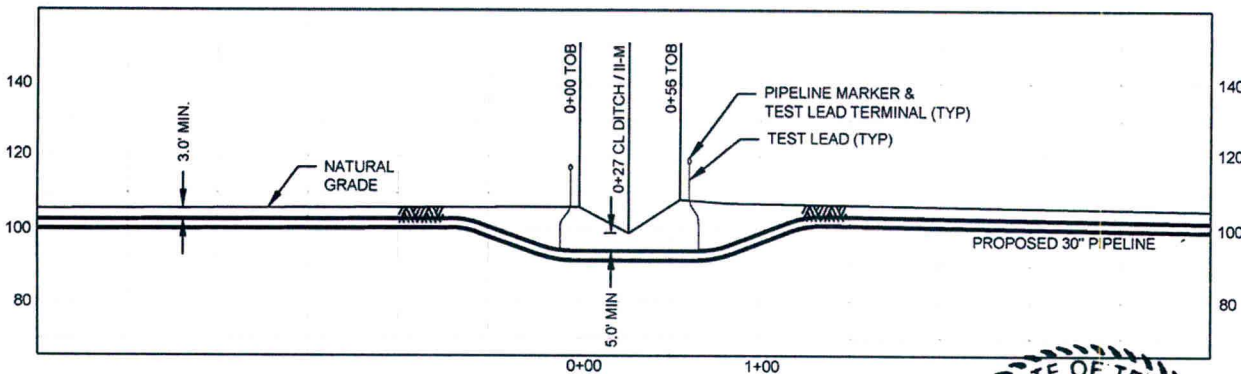
LOCATION COORDINATES

1. X=2641027.68
Y=10743944.82
2. X=2641030.72
Y=10743916.62
3. X=2641035.75
Y=10743888.43

VICINITY MAP
N.T.S.



PLAN
1" = 100'



PROFILE
1" = 100' H
1" = 50' V

PIPE SPECIFICATIONS

CONTENTS: CRUDE OIL
DESIGN FACTOR: 0.72
CARRIER PIPE: 30"Ø, 0.429" w.t., API 5L X70,
DSAW, PS12
COATING: 15-22 MILS FBE
M.O.P.: 1,440 PSIG
PIPELINE CATHODICALLY PROTECTED
METHOD OF INSTALLATION: OPEN CUT

NOTE:

1. DATUM BASED ON TEXAS STATE PLANE COORDINATE SYSTEM, UTM NAD 83, ZONE 14N, NAVD 88, DERIVED FROM GPS OBSERVATION.
2. EXISTING UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS GENERATED FROM PREVIOUS MAPS AND SURVEY. CONTRACTOR SHALL VERIFY EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES IN AREA OF WORK PRIOR TO CONSTRUCTION AND CALL TEXAS ONE CALL SYSTEM AT 1-800-245-4545 AND ALL OTHER UTILITY COMPANIES AT LEAST 2 WORKING DAYS (48 HOURS) PRIOR TO CONSTRUCTION

SCALE IN FEET

100 50 0 100



I, Daniel R. Alcorn, Registered Professional Engineer in the State of Texas, P.E. No. 79234, an employee of BILFINGER TEPSCO INC., Texas Firm No. F-4669, have reviewed the pipeline design and pipe testing specifications of this permit and have found them accurate and suitable for the proposed project. Pipeline routing is based on information provided by others. Actual construction routing, both open cut and bore sections, may vary as required for safety, constructability, or for other engineering reasons. ALL UNDERGROUND UTILITIES, WHETHER SHOWN ON THESE DRAWINGS OR NOT, SHOULD BE LOCATED BY THE CONTRACTOR AT LEAST 48 HOURS PRIOR TO DIGGING, TRENCHING, OR BORING.

I attest ONLY to the engineering aspects of the pipeline, and DO NOT attest to the accuracy, completeness, usefulness, or correctness of other aspects of the project, including but not limited to, survey, right-of-way, property ownership determination, and location of existing facilities that are the responsibility of other parties.

NO.	DATE	REVISION	BY	CHK	APPR	APPR	APPR
A	11/27/12	ISSUED FOR REVIEW	AJ	JCL	JAW		



DRAWING ISSUES	CONSTRUCTION	LAST ORIG.			
	BIDS	LAST ORIG.			
		LAST ORIG.			
	INFORMATION	LAST ORIG.			
	ISSUED FOR:	SIGNATURE	DATE	REV.	
DRAWING APPROVALS	DRAWN:	AJ	DATE:	11/27/12	
	CHECKED:	JCL	DATE:	11/27/12	
	ENGINEER:		DATE:		
	W.E.I.:		DATE:		
	CLIENT:		DATE:		
	CLIENT:		DATE:		

CREEK CROSSING PERMIT

SEAWAY CRUDE PL COMPANY LLC
ROBINOWITZ DITCH / II-M
FORT BEND COUNTY, TX

SCALE	PROJECT NO.	DRAWING NO.	SHEET	REV.
1" = 100'	52068	TX-FB-0132.00130	1 OF 1	A



FORT BEND COUNTY, TEXAS

THE CONTRACTOR MUST NOTIFY DISTRICT ENGINEER 48 HOURS PRIOR TO CONSTRUCTION GIVING THE NAME OF THE CONSTRUCTION COMPANY, THE NAME AND NUMBER OF AN ON SITE SUPERVISOR, AND THE INTENDED START DATE. THE CONTRACTOR MUST NOTIFY THE PERMIT AGENT 48 HOURS PRIOR TO CONSTRUCTION TO ACCESS THE "UIR" PROGRAM AND GIVE 48 HOURS NOTICE INCLUDING IN THE COMMENTS BOX - THE CONSTRUCTION COMPANY NAME, CONTACT PERSON'S NAME, CELL NUMBER, AND START DATE.
ALL ROAD BORES SHALL BE ACCOMPLISHED WITH THE CONVENTIONAL DRY AUGER, UNLESS OTHERWISE APPROVED BY A COUNTY ENGINEERING INSPECTOR, MAINTENANCE SUPERVISOR, OR AREA ENGINEER.

1. ALL MINIMUM DEPTH REQUIREMENTS MEASURED AT THE TOP OF PIPE OR CASING.

LEGEND

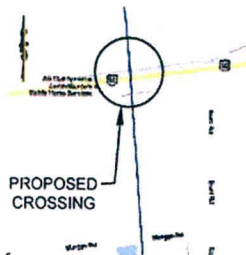
P.E.R.W. PERMANENT EASEMENT & RIGHT OF WAY
N.T.S. NOT TO SCALE
ROW RIGHT OF WAY
TOB TOP OF BANK
F.M. FARM TO MARKET
MIN. MINIMUM
— EXISTING PIPELINE
— POWER LINE
— FENCE

ROBERT G. PATE and JUDY K. PATE,
husband and wife
CALLED 139.6171 ACRES
C.C.F. No. 2008017133
O.P.R.F.B.C.T.

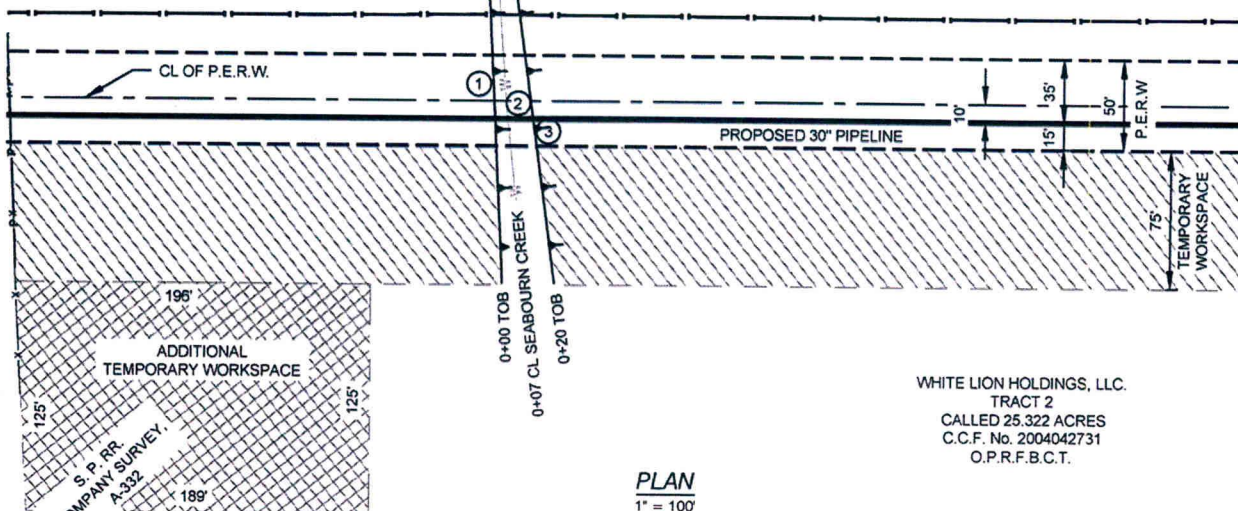
LOCATION COORDINATES

1. X=2641431.19
Y=10740201.04
2. X=2641431.94
Y=10740194.02
3. X=2641433.43
Y=10740180.22

C.P. OSBORNE SURVEY,
A-891,
H.T. & C. RR. CO. SURVEY,
A-485,
MOSES MERRITT SURVEY,
A-287,
LESTER E. CROSS SURVEY,
A-408

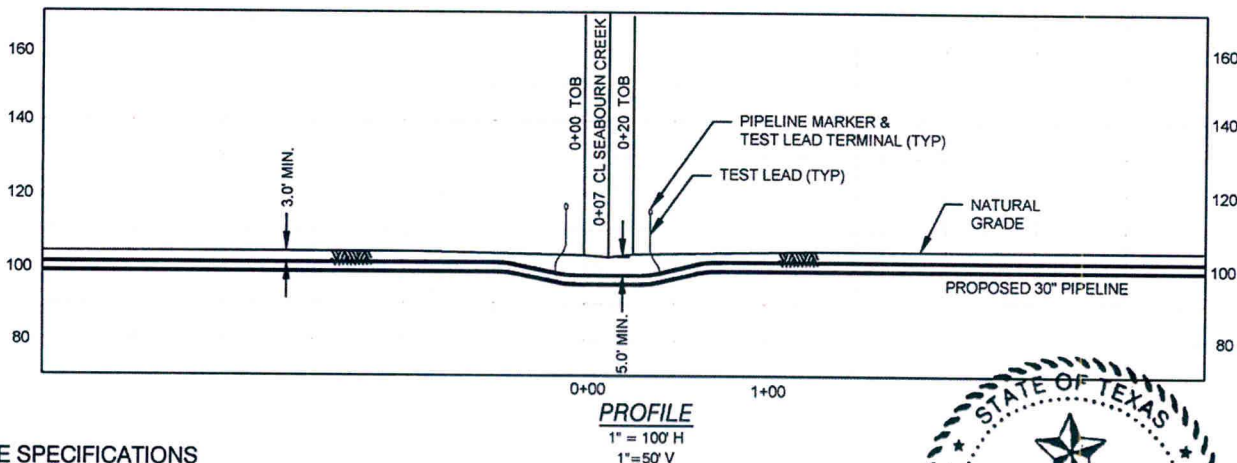


VICINITY MAP
N.T.S.



WHITE LION HOLDINGS, LLC.
TRACT 2
CALLED 25.322 ACRES
C.C.F. No. 2004042731
O.P.R.F.B.C.T.

PLAN
1" = 100'



PROFILE
1" = 100' H
1" = 50' V

PIPE SPECIFICATIONS

CONTENTS: CRUDE OIL
DESIGN FACTOR: 0.72
CARRIER PIPE: 30"Ø, 0.429" w.l., API 5L X70,
DSAW, PSL2
COATING: 15-22 MILS FBE
M.O.P.: 1,440 PSIG
PIPELINE CATHODICALLY PROTECTED
METHOD OF INSTALLATION: OPEN CUT

NOTE:

1. DATUM BASED ON TEXAS STATE PLANE COORDINATE SYSTEM, UTM NAD 83, ZONE 14N, NAVD 88, DERIVED FROM GPS OBSERVATION.
2. EXISTING UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS GENERATED FROM PREVIOUS MAPS AND SURVEY. CONTRACTOR SHALL VERIFY EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES IN AREA OF WORK PRIOR TO CONSTRUCTION AND CALL TEXAS ONE CALL SYSTEM AT 1-800-245-4545 AND ALL OTHER UTILITY COMPANIES AT LEAST 2 WORKING DAYS (48 HOURS) PRIOR TO CONSTRUCTION

SCALE IN FEET

100 50 0 100



6/13/13

I, Daniel R. Alcorn, Registered Professional Engineer in the State of Texas, P.E. No. 79234, an employee of BILFINGER TEPSCO INC., Texas Firm No. F-4669, have reviewed the pipeline design and pipe testing specifications of this permit and have found them accurate and suitable for the proposed project. Pipeline routing is based on information provided by others. Actual construction routing, both open cut and bore sections, may vary as required for safety, constructability, or for other engineering reasons. ALL UNDERGROUND UTILITIES, WHETHER SHOWN ON THESE DRAWINGS OR NOT, SHOULD BE LOCATED BY THE CONTRACTOR AT LEAST 48 HOURS PRIOR TO DIGGING, TRENCHING, OR BORING.

I attest ONLY to the engineering aspects of the pipeline, and DO NOT attest to the accuracy, completeness, usefulness, or correctness of other aspects of the project, including but not limited to, survey, right-of-way, property ownership determination, and location of existing facilities that are the responsibility of other parties.

NO.	DATE	REVISION	BY	CHK	APPR	APPR	APPR
A	12/12/12	ISSUED FOR REVIEW	MP	JCL	JAW		



WILLBROS ENGINEERS
(U.S.) LLC
4400 Post Oak Parkway
Houston, TX. 77027
(713) 403-8000 TX-F-82

DRAWING ISSUES	CONSTRUCTION	LAST	DATE
BIDS	LAST	DATE	
APPROVAL	LAST	DATE	
INFORMATION	LAST	DATE	
ISSUED FOR:	SIGNATURE	DATE	REV.
DRAWN:	MP	DATE: 12/12/12	
CHECKED:	JCL	DATE: 12/12/12	
ENGINEER:		DATE:	
W.E.I.:		DATE:	
CLIENT:		DATE:	
CLIENT:		DATE:	

CREEK CROSSING PERMIT

SEAWAY CRUDE PL COMPANY LLC
SEABOURN CREEK **A-B-4**
FORT BEND COUNTY, TX

SCALE	PROJECT NO.	DRAWING NO.	SHEET	REV.
1" = 100'	52068	TX-FB-0133.00030	1 OF 1	A



FORT BEND COUNTY, TEXAS

THE CONTRACTOR MUST NOTIFY DISTRICT ENGINEER 48 HOURS PRIOR TO CONSTRUCTION GIVING THE NAME OF THE CONSTRUCTION COMPANY, THE NAME AND NUMBER OF AN ON SITE SUPERVISOR, AND THE INTENDED START DATE. THE CONTRACTOR MUST NOTIFY THE PERMIT AGENT 48 HOURS PRIOR TO CONSTRUCTION TO ACCESS THE "UIR" PROGRAM AND GIVE 48 HOURS NOTICE INCLUDING IN THE COMMENTS BOX - THE CONSTRUCTION COMPANY NAME, CONTACT PERSON'S NAME, CELL NUMBER, AND START DATE.

ALL ROAD BORES SHALL BE ACCOMPLISHED WITH THE CONVENTIONAL DRY AUGER, UNLESS OTHERWISE APPROVED BY A COUNTY ENGINEERING INSPECTOR, MAINTENANCE SUPERVISOR, OR AREA ENGINEER.

1. ALL MINIMUM DEPTH REQUIREMENTS MEASURED AT THE TOP OF PIPE OR CASING.

LEGEND

P.E.R.W. PERMANENT EASEMENT & RIGHT OF WAY
N.T.S. NOT TO SCALE
TOB TOB OF BANK
F.M. FARM TO MARKET
MIN. MINIMUM
EXISTING PIPELINE
P POWER LINE
X FENCE

WHITE LION HOLDINGS, LLC.
TRACT 2
CALLED 25.322 ACRES
C.C.F. No. 2004042731
O.P.R.F.B.C.T.

LOCATION COORDINATES

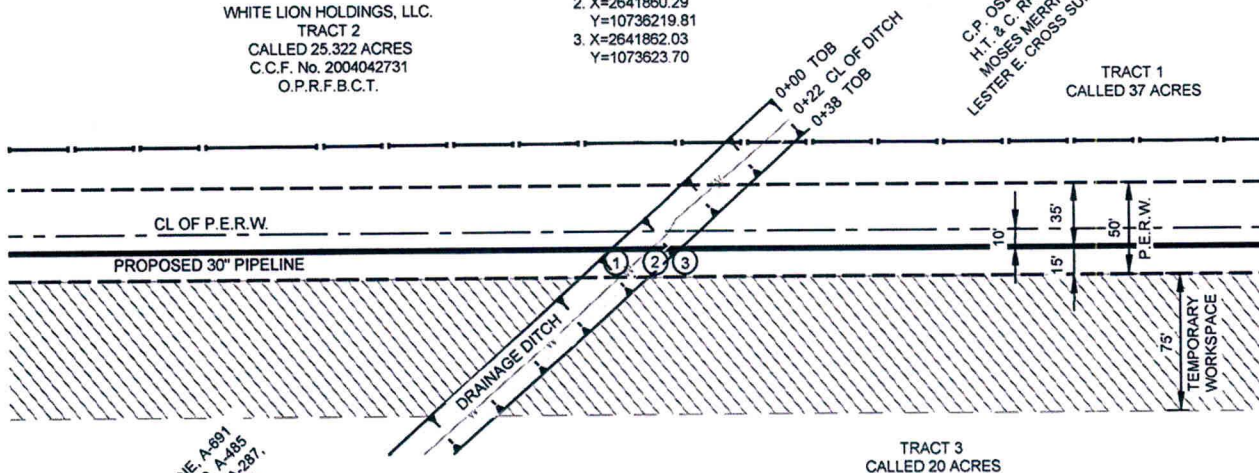
1. X=2641857.94
Y=10736241.60
2. X=2641860.29
Y=10736219.81
3. X=2641862.03
Y=1073623.70



VICINITY MAP
N.T.S.

C.P. OSBORNE, A-891
H.T. & C. RR. CO. A-485
MOSES MERRITT, A-257
LESTER E. CROSS SURVEY, A-408

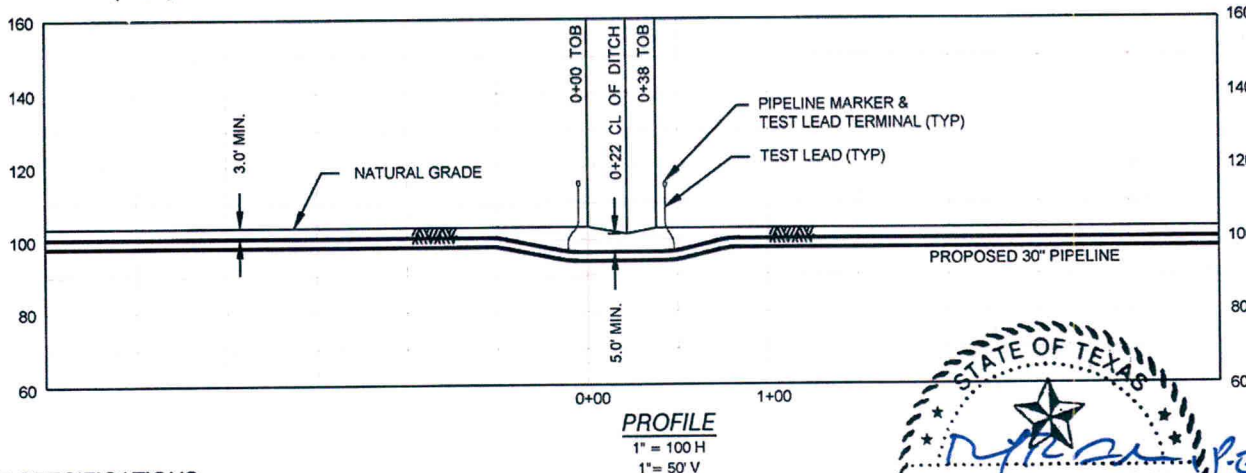
TRACT 1
CALLED 37 ACRES



C.P. OSBORNE, A-891
H.T. & C. RR. CO. A-485
MOSES MERRITT, A-257
LESTER E. CROSS SURVEY, A-408

PLAN

1" = 100'



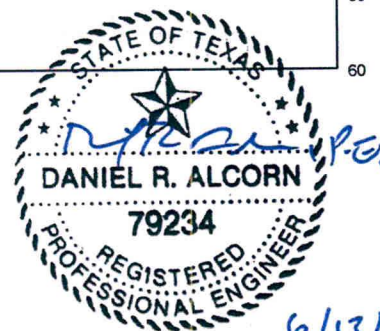
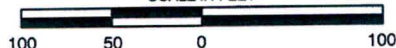
PIPE SPECIFICATIONS

CONTENTS: CRUDE OIL
DESIGN FACTOR: 0.72
CARRIER PIPE: 30"Ø, 0.429" w.t., API 5L X70,
DSAW, PSL2
COATING: 15-22 MILS FBE
M.O.P.: 1,440 PSIG
PIPELINE CATHODICALLY PROTECTED
METHOD OF INSTALLATION: OPEN CUT

NOTE:

1. DATUM BASED ON TEXAS STATE PLANE COORDINATE SYSTEM, UTM NAD 83, ZONE 14N, NAVD 88, DERIVED FROM GPS OBSERVATION.
2. EXISTING UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS GENERATED FROM PREVIOUS MAPS AND SURVEY. CONTRACTOR SHALL VERIFY EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES IN AREA OF WORK PRIOR TO CONSTRUCTION AND CALL TEXAS ONE CALL SYSTEM AT 1-800-245-4545 AND ALL OTHER UTILITY COMPANIES AT LEAST 2 WORKING DAYS (48 HOURS) PRIOR TO CONSTRUCTION

SCALE IN FEET



I, Daniel R. Alcorn, Registered Professional Engineer in the State of Texas, P.E. No. 79234, an employee of BILFINGER TEPSCO INC., Texas Firm No. F-4669, have reviewed the pipeline design and pipe testing specifications of this permit and have found them accurate and suitable for the proposed project. Pipeline routing is based on information provided by others. Actual construction routing, both open cut and bore sections, may vary as required for safety, constructability, or for other engineering reasons. ALL UNDERGROUND UTILITIES, WHETHER SHOWN ON THESE DRAWINGS OR NOT, SHOULD BE LOCATED BY THE CONTRACTOR AT LEAST 48 HOURS PRIOR TO DIGGING, TRENCHING, OR BORING.

I attest ONLY to the engineering aspects of the pipeline, and DO NOT attest to the accuracy, completeness, usefulness, or correctness of other aspects of the project, including but not limited to, survey, right-of-way, property ownership determination, and location of existing facilities that are the responsibility of other parties.

NO.	DATE	REVISION	BY	CHK	APPR	APPR	APPR
A	03/18/13	ISSUED FOR REVIEW	SN	DT	JAW		



DRAWING ISSUES	CONSTRUCTION	LAST ORG.	DATE	REV.
BIDS	LAST ORG.			
APPROVAL	LAST ORG.			
INFORMATION	LAST ORG.			
ISSUED FOR:	SIGNATURE	DATE	REV.	
DRAWN:	SN	DATE: 03/18/13		
CHECKED:	DT	DATE: 03/18/13		
ENGINEER:		DATE:		
W.E.I.:		DATE:		
CLIENT:		DATE:		
CLIENT:		DATE:		

CREEK CROSSING PERMIT

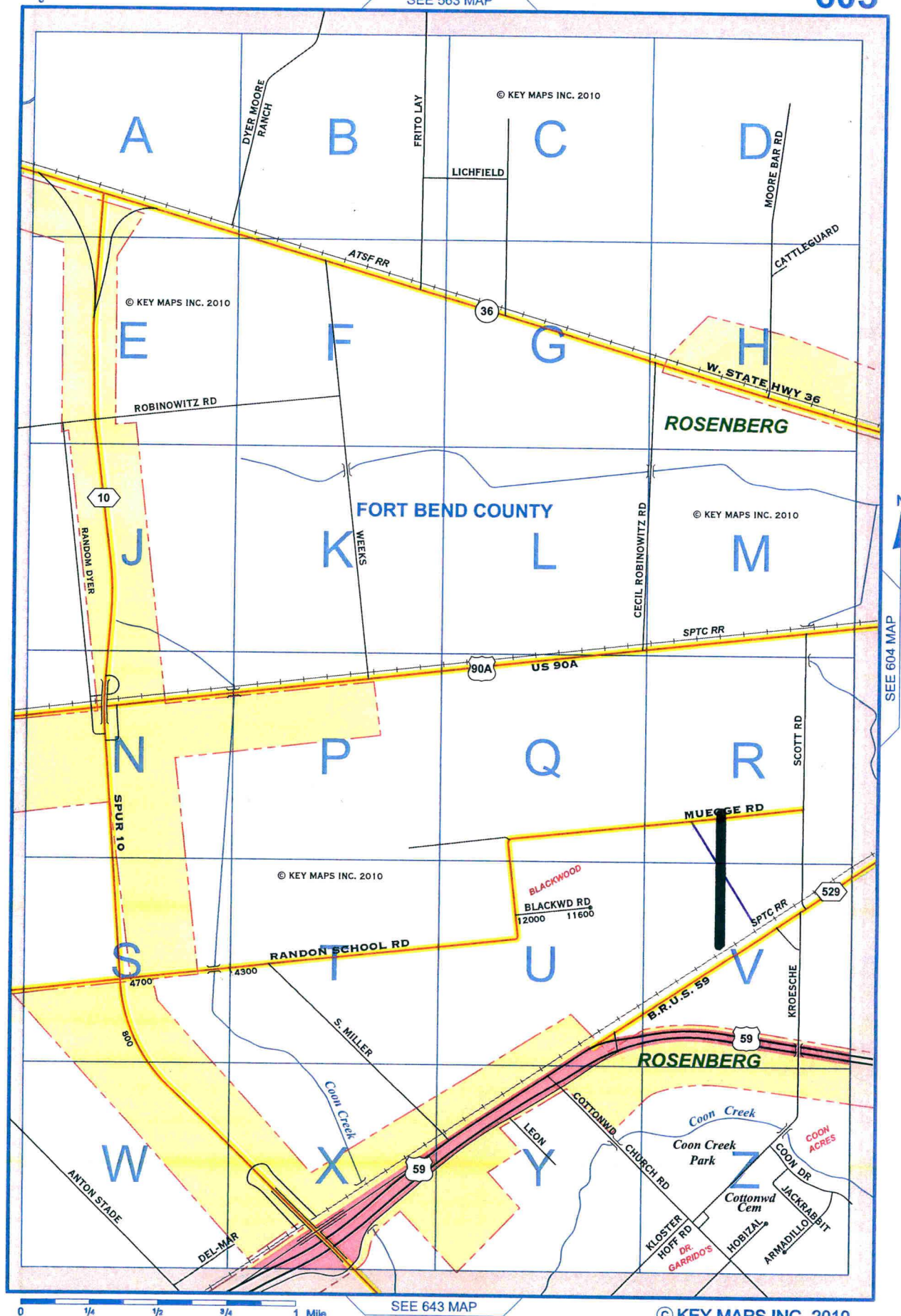
SEAWAY CRUDE PL COMPANY LLC
DRAINAGE DITCH
FORT BEND COUNTY, TX

SCALE	PROJECT NO.	DRAWING NO.	SHEET	REV.
1" = 100'	52068	TX-FB-0134.00030	1 OF 1	A



SEE 563 MAP

603



FORT BEND COUNTY, TEXAS

THE CONTRACTOR MUST NOTIFY DISTRICT ENGINEER 48 HOURS PRIOR TO CONSTRUCTION GIVING THE NAME OF THE CONSTRUCTION COMPANY, THE NAME AND NUMBER OF AN ON SITE SUPERVISOR, AND THE INTENDED START DATE. THE CONTRACTOR MUST NOTIFY THE PERMIT AGENT 48 HOURS PRIOR TO CONSTRUCTION TO ACCESS THE "UIR" PROGRAM AND GIVE 48 HOURS NOTICE INCLUDING IN THE COMMENTS BOX - THE CONSTRUCTION COMPANY NAME, CONTACT PERSON'S NAME, CELL NUMBER, AND START DATE.

ALL ROAD BORES SHALL BE ACCOMPLISHED WITH THE CONVENTIONAL DRY AUGER, UNLESS OTHERWISE APPROVED BY A COUNTY ENGINEERING INSPECTOR, MAINTENANCE SUPERVISOR, OR AREA ENGINEER.

1. ALL MINIMUM DEPTH REQUIREMENTS MEASURED AT THE TOP OF PIPE OR CASING.

LEGEND

P.E.R.W. PERMANENT EASEMENT & RIGHT OF WAY
N.T.S. NOT TO SCALE
ROW RIGHT OF WAY
T.O.B. TOP OF BANK
F.M. FARM TO MARKET
MIN. MINIMUM
EXISTING PIPELINE
P POWER LINE
X FENCE

LOCATION COORDINATES

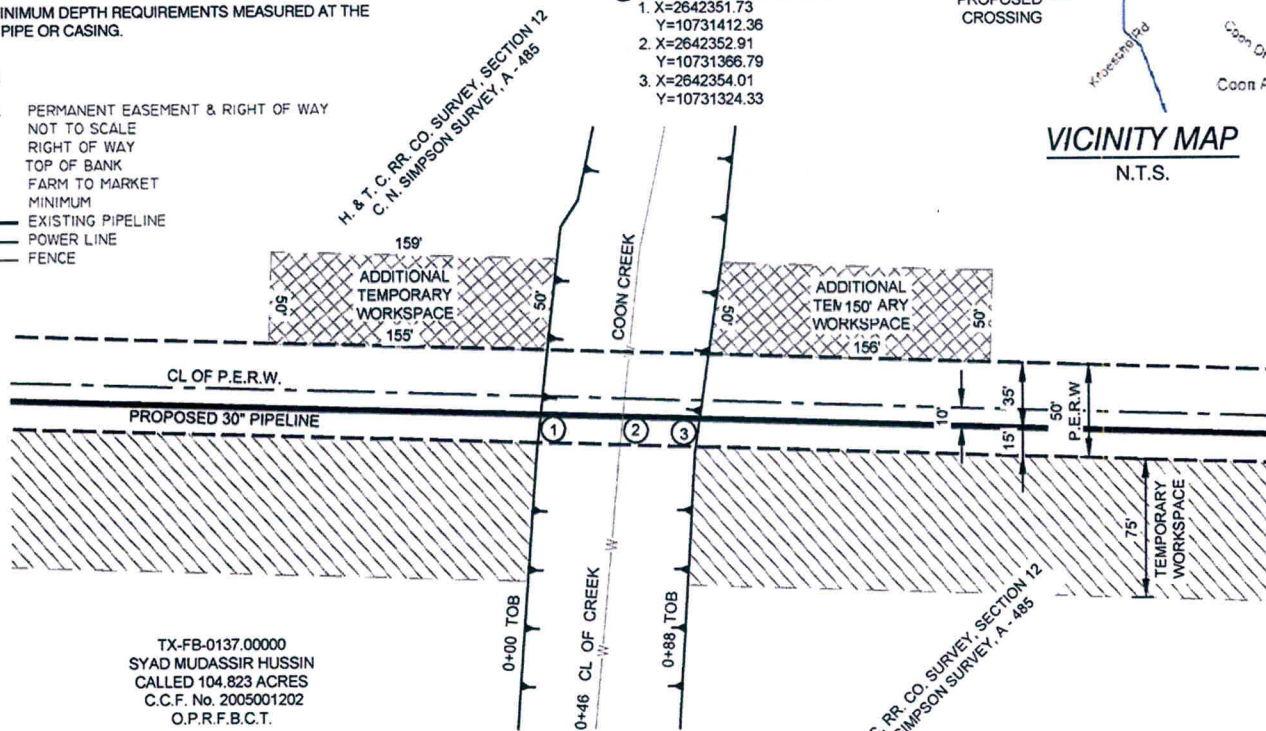
1. X=2642351.73
Y=10731412.36
2. X=2642352.91
Y=10731366.79
3. X=2642354.01
Y=10731324.33

Park At Rosenberg

PROPOSED CROSSING

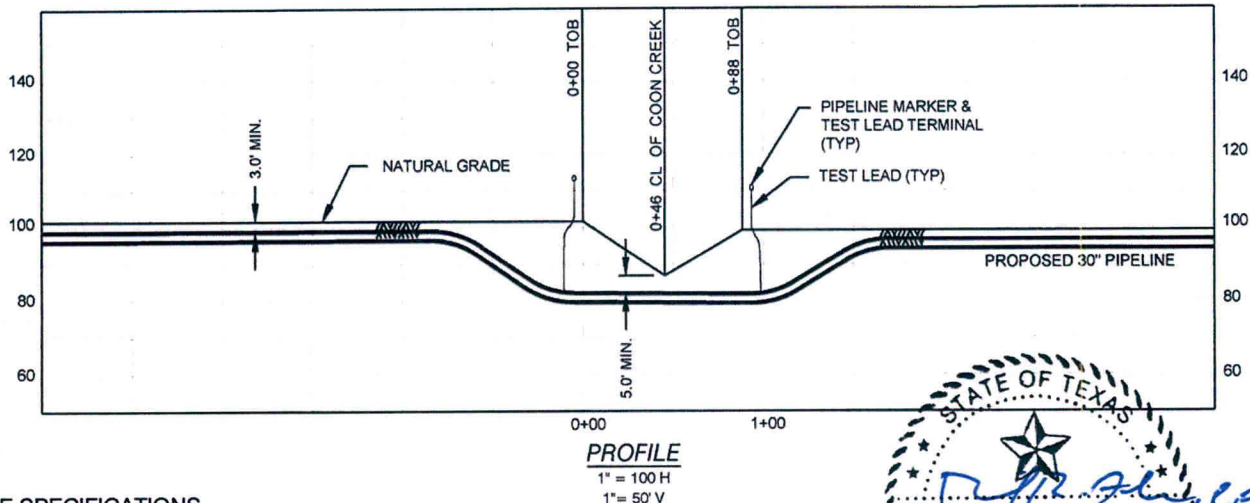
VICINITY MAP

N.T.S.



TX-FB-0137.00000
SYAD MUDASSIR HUSSIN
CALLED 104.823 ACRES
C.C.F. No. 2005001202
O.P.R.F.B.C.T.

PLAN
1" = 100'



PROFILE
1" = 100' H
1" = 50' V

PIPE SPECIFICATIONS

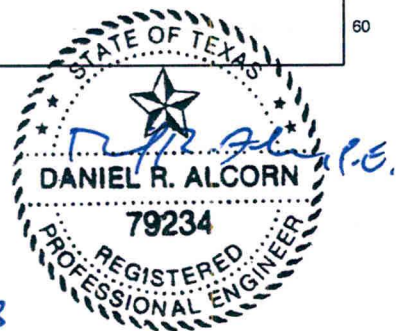
CONTENTS: CRUDE OIL
DESIGN FACTOR: 0.72
CARRIER PIPE: 30"Ø, 0.429" w.t., API 5L X70, DSAW, PSL2
COATING: 15-22 MILS FBE
M.O.P.: 1,440 PSIG
PIPELINE CATHODICALLY PROTECTED
METHOD OF INSTALLATION: OPEN CUT

NOTE:

1. DATUM BASED ON TEXAS STATE PLANE COORDINATE SYSTEM, UTM NAD 83, ZONE 14N, NAVD 88, DERIVED FROM GPS OBSERVATION.
2. EXISTING UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS GENERATED FROM PREVIOUS MAPS AND SURVEY. CONTRACTOR SHALL VERIFY EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES IN AREA OF WORK PRIOR TO CONSTRUCTION AND CALL TEXAS ONE CALL SYSTEM AT 1-800-245-4545 AND ALL OTHER UTILITY COMPANIES AT LEAST 2 WORKING DAYS (48 HOURS) PRIOR TO CONSTRUCTION

SCALE IN FEET

100 50 0 100



I, Daniel R. Alcorn, Registered Professional Engineer in the State of Texas, P.E. No. 79234, an employee of BILFINGER TEPSCO INC., Texas Firm No. F-4669, have reviewed the pipeline design and pipe testing specifications of this permit and have found them accurate and suitable for the proposed project. Pipeline routing is based on information provided by others. Actual construction routing, both open cut and bore sections, may vary as required for safety, constructability, or for other engineering reasons. ALL UNDERGROUND UTILITIES, WHETHER SHOWN ON THESE DRAWINGS OR NOT, SHOULD BE LOCATED BY THE CONTRACTOR AT LEAST 48 HOURS PRIOR TO DIGGING, TRENCHING, OR BORING.

I attest ONLY to the engineering aspects of the pipeline, and DO NOT attest to the accuracy, completeness, usefulness, or correctness of other aspects of the project, including but not limited to, survey, right-of-way, property ownership determination, and location of existing facilities that are the responsibility of other parties.

NO.	DATE	REVISION	BY	CHK	APPR	APPR	APPR
A	11/21/12	ISSUED FOR REVIEW	SN	JCL	JAW		



DRAWING ISSUES	CONSTRUCTION	LAST ORG.	DATE	REV.
BIDS	LAST ORG.			
APPROVAL	LAST ORG.			
INFORMATION	LAST ORG.			
ISSUED FOR:	SIGNATURE	DATE	REV.	
DRAWN:	SN	DATE: 11/21/12		
CHECKED:	JCL	DATE: 11/21/12		
ENGINEER:		DATE:		
W.E.I.:		DATE:		
CLIENT:		DATE:		
CLIENT:		DATE:		

CREEK CROSSING PERMIT

SEAWAY CRUDE PL COMPANY LLC
COON CREEK / 11-B-3
FORT BEND COUNTY, TX

SCALE	PROJECT NO.	DRAWING NO.	SHEET	REV.
1" = 100'	52068	TX-FB-0137.00030	1 OF 1	A



FORT BEND COUNTY, TEXAS

THE CONTRACTOR MUST NOTIFY DISTRICT ENGINEER 48 HOURS PRIOR TO CONSTRUCTION GIVING THE NAME OF THE CONSTRUCTION COMPANY, THE NAME AND NUMBER OF AN ON SITE SUPERVISOR, AND THE INTENDED START DATE. THE CONTRACTOR MUST NOTIFY THE PERMIT AGENT 48 HOURS PRIOR TO CONSTRUCTION TO ACCESS THE "UIR" PROGRAM AND GIVE 48 HOURS NOTICE INCLUDING IN THE COMMENTS BOX - THE CONSTRUCTION COMPANY NAME, CONTACT PERSON'S NAME, CELL NUMBER, AND START DATE.

ALL ROAD BORES SHALL BE ACCOMPLISHED WITH THE CONVENTIONAL DRY AUGER, UNLESS OTHERWISE APPROVED BY A COUNTY ENGINEERING INSPECTOR, MAINTENANCE SUPERVISOR, OR AREA ENGINEER.

1. ALL MINIMUM DEPTH REQUIREMENTS MEASURED AT THE TOP OF PIPE OR CASING.

LEGEND

P.E.R.W. PERMANENT EASEMENT & RIGHT OF WAY
N.T.S. NOT TO SCALE
ROW RIGHT OF WAY
TOB TOP OF BANK
F.M. FARM TO MARKET
MIN. MINIMUM
EXISTING PIPELINE
P POWER LINE
X FENCE
POWER POLE

TX-FB-0137.00000
SYAD MUDASSIR HUSSIN
CALLED 104.823 ACRES
C.C.F. No. 2005001202
O.P.R.F.B.C.T.

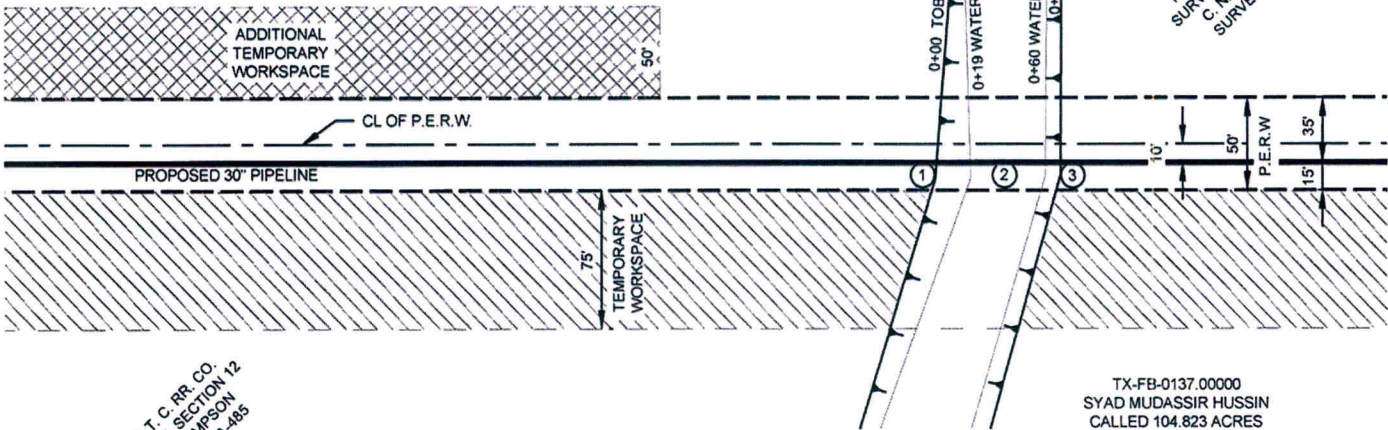
LOCATION COORDINATES

1. X=2642362.12
Y=10731011.10
2. X=2642364.21
Y=10730975.42
3. X=2642363.90
Y=10730942.49

VICINITY MAP

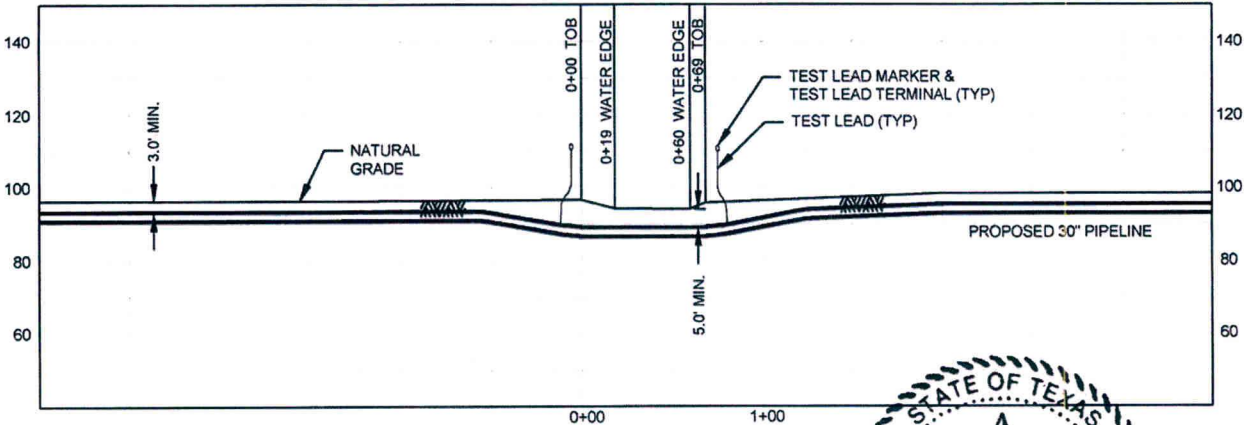
N.T.S.

H. & T. C. RR. CO.
SURVEY, SECTION 12
C.N. SIMPSON
SURVEY, A-485



PLAN

1" = 100'



PROFILE

1" = 100' H
1" = 50' V

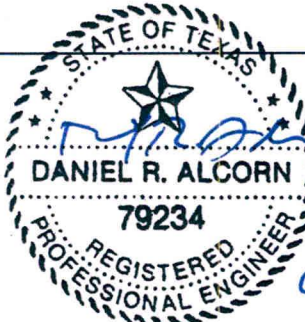
PIPE SPECIFICATIONS

CONTENTS: CRUDE OIL
DESIGN FACTOR: 0.72
CARRIER PIPE: 30"Ø, 0.429" w.t., API 5L X70,
DSAW, PSL2
COATING: 15-22 MILS FBE
M.O.P.: 1,440 PSIG
PIPELINE CATHODICALLY PROTECTED
METHOD OF INSTALLATION: OPEN CUT

NOTE:

1. DATUM BASED ON TEXAS STATE PLANE COORDINATE SYSTEM, UTM NAD 83, ZONE 14N, NAVD 88, DERIVED FROM GPS OBSERVATION.
2. EXISTING UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS GENERATED FROM PREVIOUS MAPS AND SURVEY. CONTRACTOR SHALL VERIFY EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES IN AREA OF WORK PRIOR TO CONSTRUCTION AND CALL TEXAS ONE CALL SYSTEM AT 1-800-245-4545 AND ALL OTHER UTILITY COMPANIES AT LEAST 2 WORKING DAYS (48 HOURS) PRIOR TO CONSTRUCTION

SCALE IN FEET



I, Daniel R. Alcorn, Registered Professional Engineer in the State of Texas, P.E. No. 79234, an employee of BILFINGER TEPSCO INC., Texas Firm No. F-4669, have reviewed the pipeline design and pipe testing specifications of this permit and have found them accurate and suitable for the proposed project. Pipeline routing is based on information provided by others. Actual construction routing, both open cut and bore sections, may vary as required for safety, constructability, or for other engineering reasons. ALL UNDERGROUND UTILITIES, WHETHER SHOWN ON THESE DRAWINGS OR NOT, SHOULD BE LOCATED BY THE CONTRACTOR AT LEAST 48 HOURS PRIOR TO DIGGING, TRENCHING, OR BORING.

I attest ONLY to the engineering aspects of the pipeline, and DO NOT attest to the accuracy, completeness, usefulness, or correctness of other aspects of the project, including but not limited to, survey, right-of-way, property ownership determination, and location of existing facilities that are the responsibility of other parties.

NO.	DATE	REVISION	BY	CHK	APPR	APPR	APPR
A	04/03/13	ISSUED FOR REVIEW	MP	DT	JAW		



DRAWING ISSUES	CONSTRUCTION	LAST ORIG.			
	BIDS	LAST ORIG.			
	APPROVAL	LAST ORIG.			
	INFORMATION	LAST ORIG.			
	ISSUED FOR:	SIGNATURE	DATE	REV.	
DRAWING APPROVALS	DRAWN: MP		DATE: 04/03/13		
	CHECKED: DT		DATE: 04/03/13		
	ENGINEER:		DATE:		
	W.E.I.:		DATE:		
	CLIENT:		DATE:		
	CLIENT:		DATE:		

CREEK CROSSING PERMIT

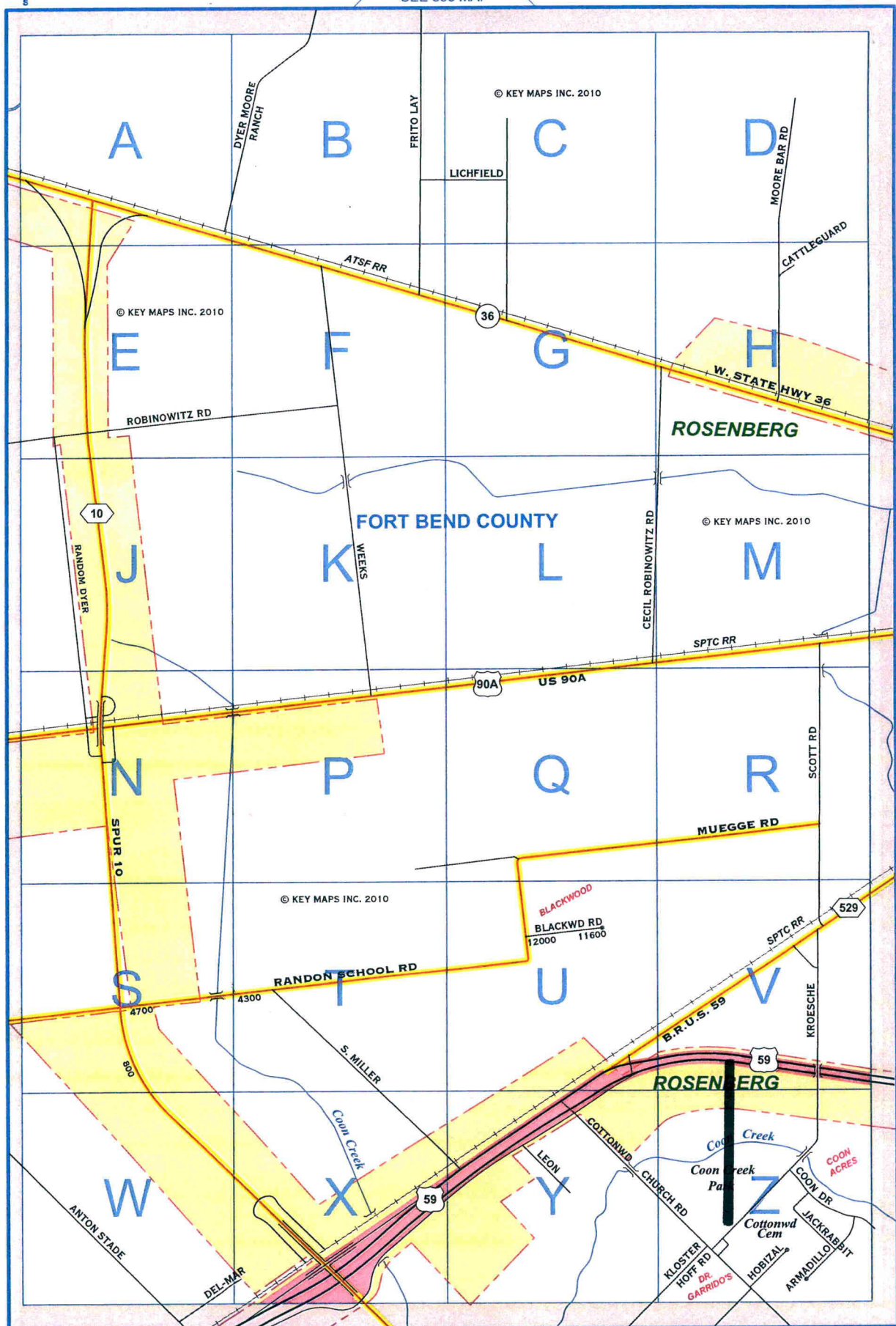
SEAWAY CRUDE PL COMPANY LLC
CREEK
FORT BEND COUNTY, TX

SCALE	PROJECT NO.	DRAWING NO.	SHEET	REV.
1"=100'	52068	TX-FB-0137.00031	1 OF 1	A



SEE 563 MAP

603



0 1/4 1/2 3/4 1 Mile

SEE 643 MAP

© KEY MAPS INC. 2010

FORT BEND COUNTY, TEXAS

THE CONTRACTOR MUST NOTIFY DISTRICT ENGINEER 48 HOURS PRIOR TO CONSTRUCTION GIVING THE NAME OF THE CONSTRUCTION COMPANY, THE NAME AND NUMBER OF AN ON SITE SUPERVISOR, AND THE INTENDED START DATE. THE CONTRACTOR MUST NOTIFY THE PERMIT AGENT 48 HOURS PRIOR TO CONSTRUCTION TO ACCESS THE "UIR" PROGRAM AND GIVE 48 HOURS NOTICE INCLUDING IN THE COMMENTS BOX - THE CONSTRUCTION COMPANY NAME, CONTACT PERSON'S NAME, CELL NUMBER, AND START DATE.
ALL ROAD BORES SHALL BE ACCOMPLISHED WITH THE CONVENTIONAL DRY AUGER, UNLESS OTHERWISE APPROVED BY A COUNTY ENGINEERING INSPECTOR, MAINTENANCE SUPERVISOR, OR AREA ENGINEER.

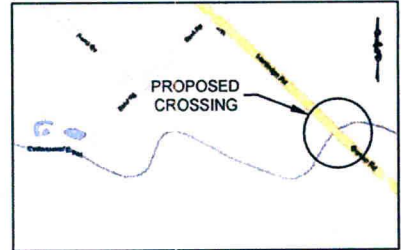
1. ALL MINIMUM DEPTH REQUIREMENTS MEASURED AT THE TOP OF PIPE OR CASING.

LEGEND

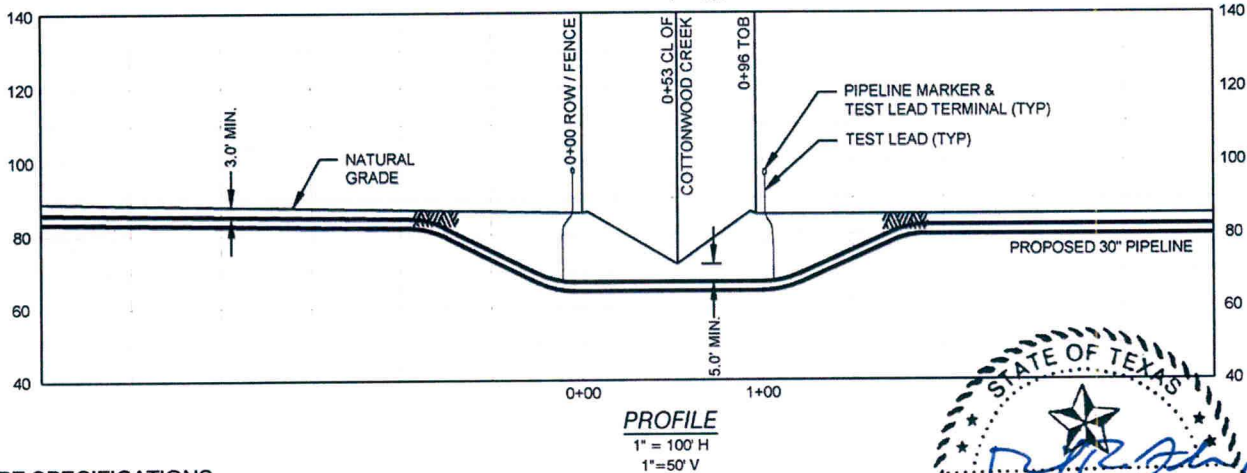
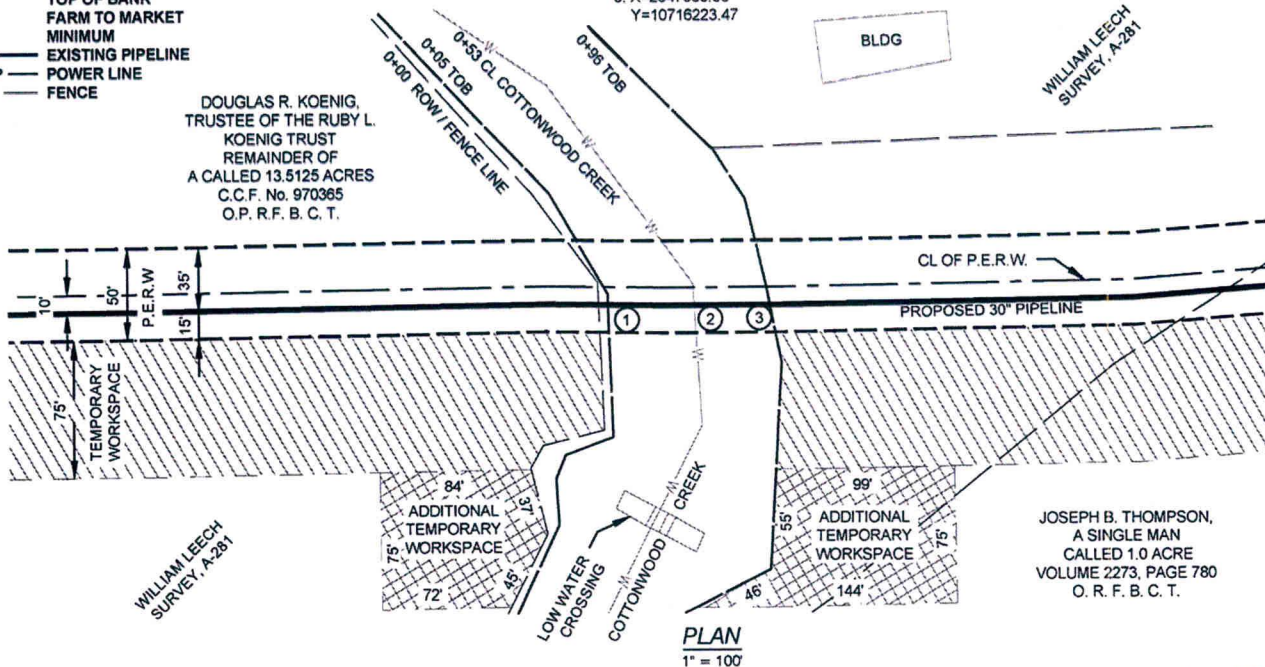
P.E.R.W. PERMANENT EASEMENT & RIGHT OF WAY
N.T.S. NOT TO SCALE
ROW RIGHT OF WAY
TOB TOP OF BANK
F.M. FARM TO MARKET
MIN. MINIMUM
EXISTING PIPELINE
P POWER LINE
FENCE

LOCATION COORDINATES

1. X=2647636.94
Y=10716315.23
2. X=2647649.97
Y=10716263.89
3. X=2647660.68
Y=10716223.47



VICINITY MAP
N.T.S.



PIPE SPECIFICATIONS

CONTENTS: CRUDE OIL
DESIGN FACTOR: 0.72
CARRIER PIPE: 30" O.D., 0.429" w.t., API 5L X70,
DSAW, PSL2
COATING: 15-22 MILS FBE
M.O.P.: 1,440 PSIG
PIPELINE CATHODICALLY PROTECTED
METHOD OF INSTALLATION: OPEN CUT

NOTE:

1. DATUM BASED ON TEXAS STATE PLANE COORDINATE SYSTEM, UTM NAD 83, ZONE 14N, NAVD 88, DERIVED FROM GPS OBSERVATION.
2. EXISTING UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS GENERATED FROM PREVIOUS MAPS AND SURVEY. CONTRACTOR SHALL VERIFY EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES IN AREA OF WORK PRIOR TO CONSTRUCTION AND CALL TEXAS ONE CALL SYSTEM AT 1-800-245-4545 AND ALL OTHER UTILITY COMPANIES AT LEAST 2 WORKING DAYS (48 HOURS) PRIOR TO CONSTRUCTION

SCALE IN FEET



I, Daniel R. Alcorn, Registered Professional Engineer in the State of Texas, P.E. No. 79234, an employee of BILFINGER TEPSCO INC., Texas Firm No. F-4669, have reviewed the pipeline design and pipe testing specifications of this permit and have found them accurate and suitable for the proposed project. Pipeline routing is based on information provided by others. Actual construction routing, both open cut and bore sections, may vary as required for safety, constructability, or for other engineering reasons. ALL UNDERGROUND UTILITIES, WHETHER SHOWN ON THESE DRAWINGS OR NOT, SHOULD BE LOCATED BY THE CONTRACTOR AT LEAST 48 HOURS PRIOR TO DIGGING, TRENCHING, OR BORING.

I attest ONLY to the engineering aspects of the pipeline, and DO NOT attest to the accuracy, completeness, usefulness, or correctness of other aspects of the project, including but not limited to, survey, right-of-way, property ownership determination, and location of existing facilities that are the responsibility of other parties.

NO.	DATE	REVISION	BY	CHK	APPR	APPR	APPR
A	11/26/12	ISSUED FOR REVIEW	MP	JCL	JAW		



WILLBROS ENGINEERS
(U.S.) LLC
4400 Post Oak Parkway
Houston, TX, 77027
(713) 403-8000 TX-F-82

DRAWING ISSUES	CONSTRUCTION	LAST
BIDS	LAST	ORIG.
APPROVAL	LAST	ORIG.
INFORMATION	LAST	ORIG.
ISSUED FOR:	SIGNATURE	DATE
DRAWN:	MP	DATE: 11/26/12
CHECKED:	JCL	DATE: 11/26/12
ENGINEER:		DATE:
W.E.I.:		DATE:
CLIENT:		DATE:
CLIENT:		DATE:

CREEK CROSSING PERMIT

SEAWAY CRUDE PL COMPANY LLC
COTTONWOOD CREEK **11-B-3**
FORT BEND COUNTY, TX

SCALE	PROJECT NO.	DRAWING NO.	SHEET	REV.
1"=100'	52068	TX-FB-0166.00030	1 OF 1	A



FORT BEND COUNTY, TEXAS

THE CONTRACTOR MUST NOTIFY DISTRICT ENGINEER 48 HOURS PRIOR TO CONSTRUCTION GIVING THE NAME OF THE CONSTRUCTION COMPANY, THE NAME AND NUMBER OF AN ON SITE SUPERVISOR, AND THE INTENDED START DATE. THE CONTRACTOR MUST NOTIFY THE PERMIT AGENT 48 HOURS PRIOR TO CONSTRUCTION TO ACCESS THE "UIR" PROGRAM AND GIVE 48 HOURS NOTICE INCLUDING IN THE COMMENTS BOX - THE CONSTRUCTION COMPANY NAME, CONTACT PERSON'S NAME, CELL NUMBER, AND START DATE. ALL ROAD BORES SHALL BE ACCOMPLISHED WITH THE CONVENTIONAL DRY AUGER, UNLESS OTHERWISE APPROVED BY A COUNTY ENGINEERING INSPECTOR, MAINTENANCE SUPERVISOR, OR AREA ENGINEER.

1. ALL MINIMUM DEPTH REQUIREMENTS MEASURED AT THE TOP OF PIPE OR CASING.

LEGEND

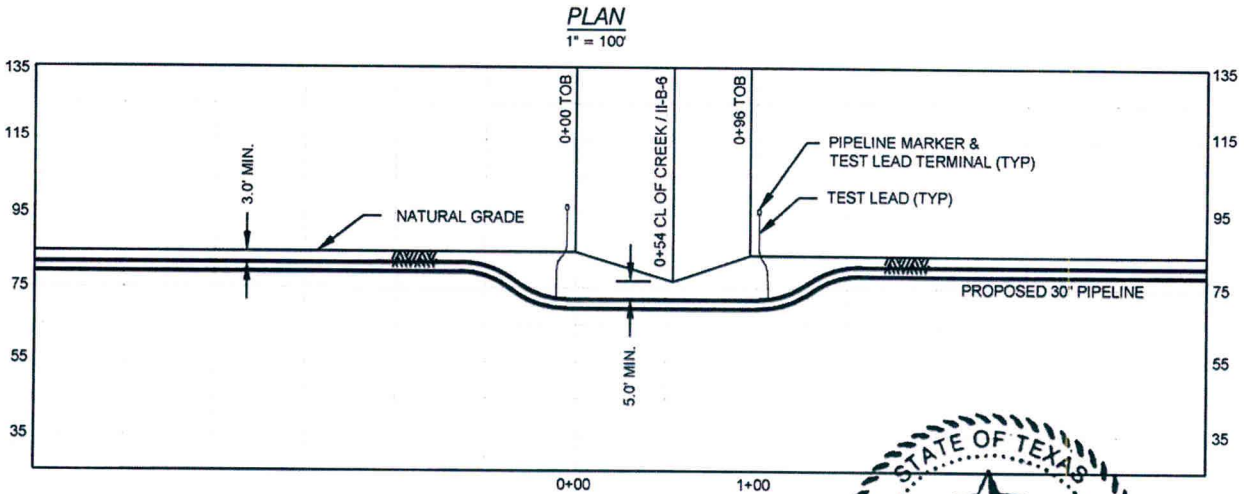
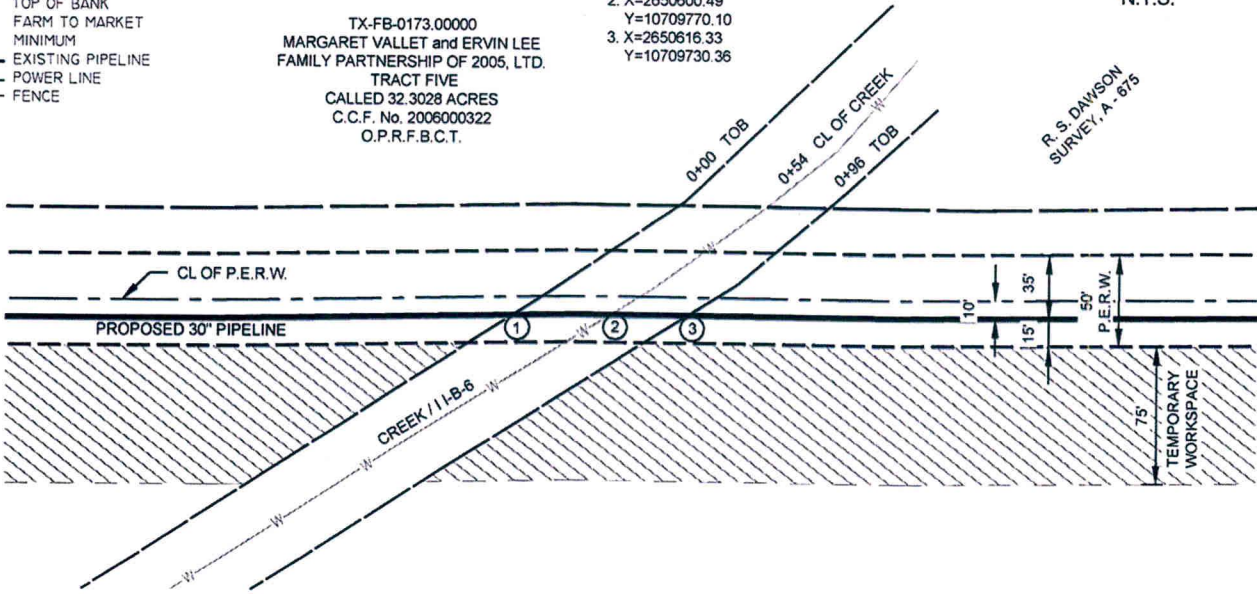
P.E.R.W. PERMANENT EASEMENT & RIGHT OF WAY
N.T.S. NOT TO SCALE
ROW RIGHT OF WAY
TOB TOP OF BANK
F.M. FARM TO MARKET
MIN. MINIMUM
EXISTING PIPELINE
P POWER LINE
FENCE

TX-FB-0173.00000
MARGARET VALLET and ERVIN LEE
FAMILY PARTNERSHIP OF 2005, LTD.
TRACT FIVE
CALLED 32.3028 ACRES
C.C.F. No. 2006000322
O.P.R.F.B.C.T.

LOCATION COORDINATES

1. X=2650579.63
Y=10709820.06
2. X=2650600.49
Y=10709770.10
3. X=2650616.33
Y=10709730.36

VICINITY MAP
N.T.S.



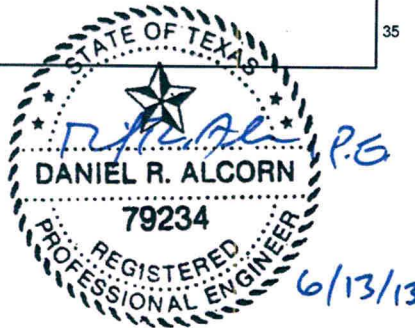
PIPE SPECIFICATIONS

CONTENTS: CRUDE OIL
DESIGN FACTOR: 0.72
CARRIER PIPE: 30" O, 0.429" W.T., API 5L X70,
DSAW, PSL2
COATING: 15-22 MILS FBE
M.O.P.: 1,440 PSIG
PIPELINE CATHODICALLY PROTECTED
METHOD OF INSTALLATION: OPEN CUT

NOTE:

1. DATUM BASED ON TEXAS STATE PLANE COORDINATE SYSTEM, UTM NAD 83, ZONE 14N, NAVD 88, DERIVED FROM GPS OBSERVATION.
2. EXISTING UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS GENERATED FROM PREVIOUS MAPS AND SURVEY. CONTRACTOR SHALL VERIFY EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES IN AREA OF WORK PRIOR TO CONSTRUCTION AND CALL TEXAS ONE CALL SYSTEM AT 1-800-245-4545 AND ALL OTHER UTILITY COMPANIES AT LEAST 2 WORKING DAYS (48 HOURS) PRIOR TO CONSTRUCTION

SCALE IN FEET



I, Daniel R. Alcorn, Registered Professional Engineer in the State of Texas, P.E. No. 79234, an employee of BILFINGER TEPSCO INC., Texas Firm No. F-4669, have reviewed the pipeline design and pipe testing specifications of this permit and have found them accurate and suitable for the proposed project. Pipeline routing is based on information provided by others. Actual construction routing, both open cut and bore sections, may vary as required for safety, constructability, or for other engineering reasons. ALL UNDERGROUND UTILITIES, WHETHER SHOWN ON THESE DRAWINGS OR NOT, SHOULD BE LOCATED BY THE CONTRACTOR AT LEAST 48 HOURS PRIOR TO DIGGING, TRENCHING, OR BORING.

I attest ONLY to the engineering aspects of the pipeline, and DO NOT attest to the accuracy, completeness, usefulness, or correctness of other aspects of the project, including but not limited to, survey, right-of-way, property ownership determination, and location of existing facilities that are the responsibility of other parties.

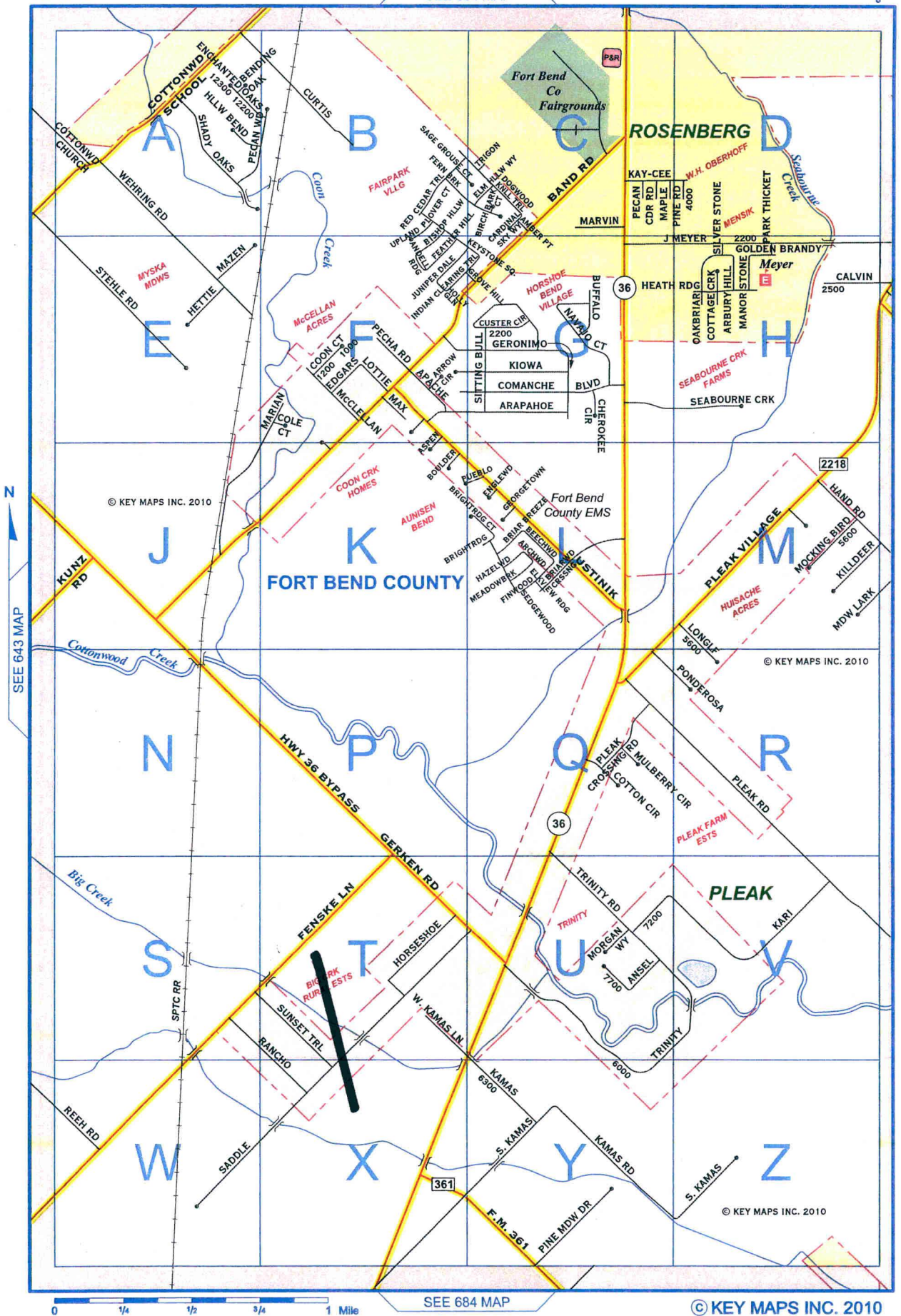
NO.	DATE	REVISION	BY	CHK	APPR	APPR	APPR
A	11/19/12	ISSUED FOR REVIEW	SN	JCL	JAW		

Seaway Crude
PIPELINE COMPANY LLC

WILLBROS ENGINEERS
(U.S.) LLC
4400 Post Oak Parkway
Houston, TX, 77027
(713) 403-8000 TX-F-82

DRAWING ISSUES	CONSTRUCTION	LAST	DATE
BIDS	LAST	DATE	
APPROVAL	LAST	DATE	
INFORMATION	LAST	DATE	
ISSUED FOR:	SIGNATURE	DATE	REV.
DRAWN:	SN	DATE:	11/19/12
CHECKED:	JCL	DATE:	11/19/12
ENGINEER:		DATE:	
W.E.I.:		DATE:	
CLIENT:		DATE:	
CLIENT:		DATE:	

CREEK CROSSING PERMIT				
SEAWAY CRUDE PL COMPANY LLC				
CREEK / II-B-6				
FORT BEND COUNTY, TX				
SCALE	PROJECT NO.	DRAWING NO.	SHEET	REV.
1"=100'	52068	TX-FB-0173.00030	1 OF 1	A



FORT BEND COUNTY, TEXAS

THE CONTRACTOR MUST NOTIFY DISTRICT ENGINEER 48 HOURS PRIOR TO CONSTRUCTION GIVING THE NAME OF THE CONSTRUCTION COMPANY, THE NAME AND NUMBER OF AN ON SITE SUPERVISOR, AND THE INTENDED START DATE. THE CONTRACTOR MUST NOTIFY THE PERMIT AGENT 48 HOURS PRIOR TO CONSTRUCTION TO ACCESS THE "UIR" PROGRAM AND GIVE 48 HOURS NOTICE INCLUDING IN THE COMMENTS BOX - THE CONSTRUCTION COMPANY NAME, CONTACT PERSON'S NAME, CELL NUMBER, AND START DATE.
ALL ROAD BORES SHALL BE ACCOMPLISHED WITH THE CONVENTIONAL DRY AUGER, UNLESS OTHERWISE APPROVED BY A COUNTY ENGINEERING INSPECTOR, MAINTENANCE SUPERVISOR, OR AREA ENGINEER.

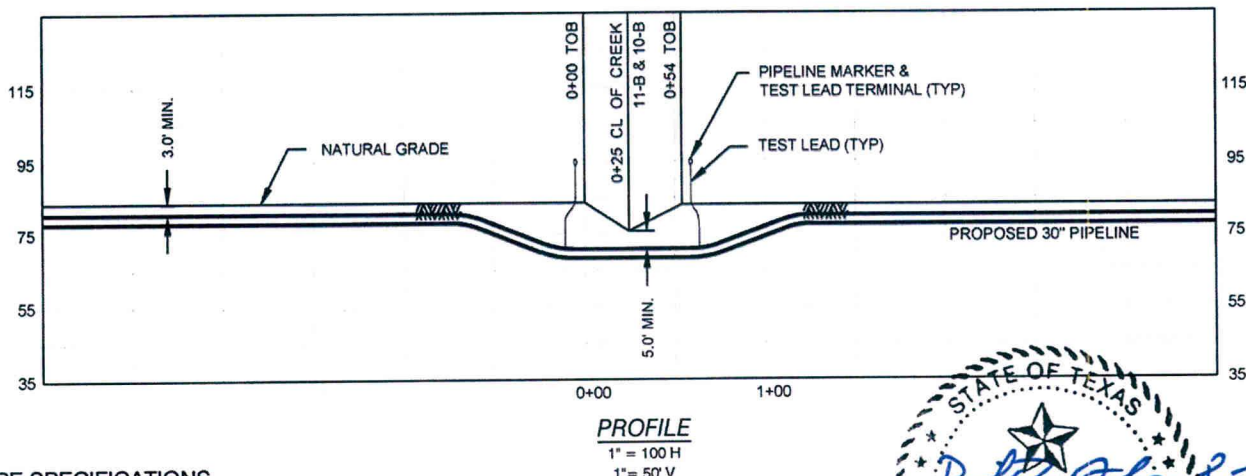
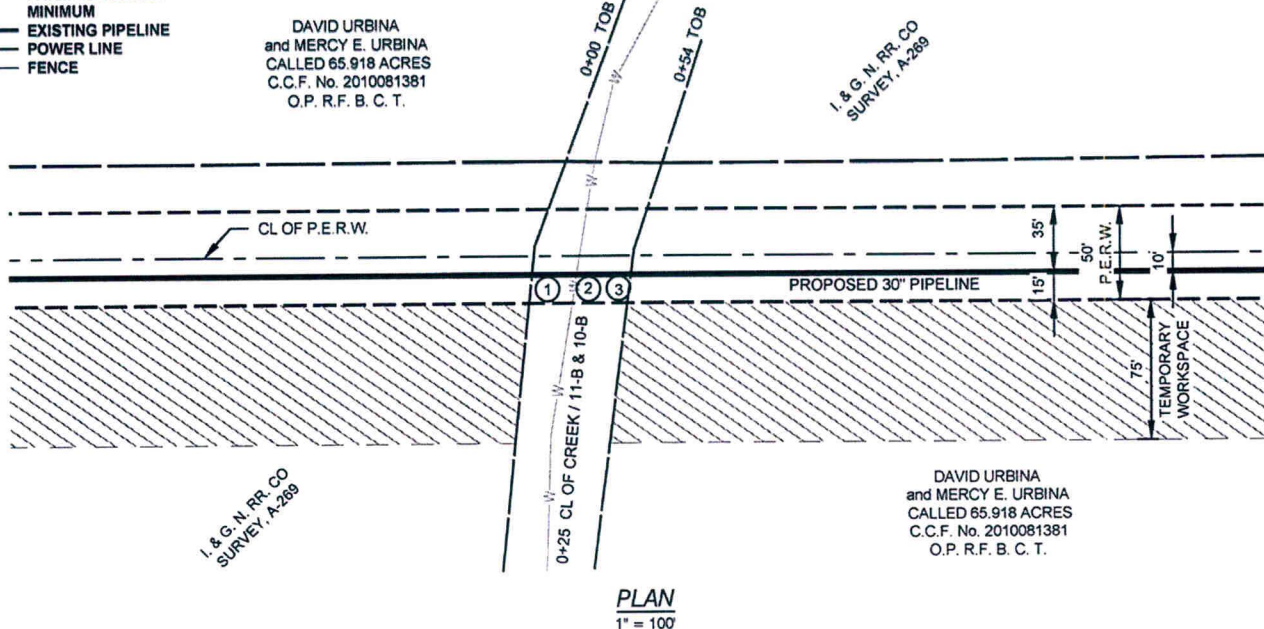
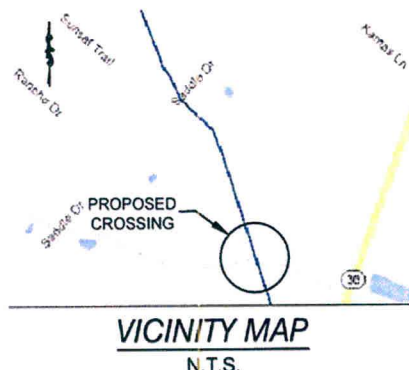
1. ALL MINIMUM DEPTH REQUIREMENTS MEASURED AT THE TOP OF PIPE OR CASING.

LEGEND

P.E.R.W. PERMANENT EASEMENT & RIGHT OF WAY
N.T.S. NOT TO SCALE
ROW RIGHT OF WAY
TOB TOP OF BANK
F.M. FARM TO MARKET
MIN. MINIMUM
EXISTING PIPELINE
POWER LINE
FENCE

LOCATION COORDINATES

1. X=2651760.35
Y=10707436.96
2. X=2651768.48
Y=10707414.25
3. X=2651778.45
Y=10707386.42

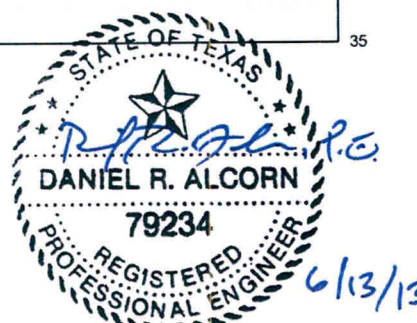
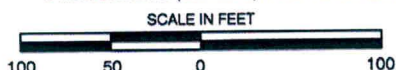


PIPE SPECIFICATIONS

CONTENTS: CRUDE OIL
DESIGN FACTOR: 0.72
CARRIER PIPE: 30" O.D., 0.429" w.t., API 5L X70,
DSAW, PS12
COATING: 15-22 MILS FBE
M.O.P.: 1,440 PSIG
PIPELINE CATHODICALLY PROTECTED
METHOD OF INSTALLATION: OPEN CUT

NOTE:

1. DATUM BASED ON TEXAS STATE PLANE COORDINATE SYSTEM, UTM NAD 83, ZONE 14N, NAVD 88, DERIVED FROM GPS OBSERVATION.
2. EXISTING UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS GENERATED FROM PREVIOUS MAPS AND SURVEY. CONTRACTOR SHALL VERIFY EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES IN AREA OF WORK PRIOR TO CONSTRUCTION AND CALL TEXAS ONE CALL SYSTEM AT 1-800-245-4545 AND ALL OTHER UTILITY COMPANIES AT LEAST 2 WORKING DAYS (48 HOURS) PRIOR TO CONSTRUCTION



I, Daniel R. Alcorn, Registered Professional Engineer in the State of Texas, P.E. No. 79234, an employee of BILFINGER TEPSCO INC., Texas Firm No. F-4669, have reviewed the pipeline design and pipe testing specifications of this permit and have found them accurate and suitable for the proposed project. Pipeline routing is based on information provided by others. Actual construction routing, both open cut and bore sections, may vary as required for safety, constructability, or for other engineering reasons. ALL UNDERGROUND UTILITIES, WHETHER SHOWN ON THESE DRAWINGS OR NOT, SHOULD BE LOCATED BY THE CONTRACTOR AT LEAST 48 HOURS PRIOR TO DIGGING, TRENCHING, OR BORING.

I attest ONLY to the engineering aspects of the pipeline, and DO NOT attest to the accuracy, completeness, usefulness, or correctness of other aspects of the project, including but not limited to, survey, right-of-way, property ownership determination, and location of existing facilities that are the responsibility of other parties.

NO.	DATE	REVISION	BY	CHK	APPR	APPR	APPR
A	11/26/12	ISSUED FOR REVIEW	SN	JCL	JAW		

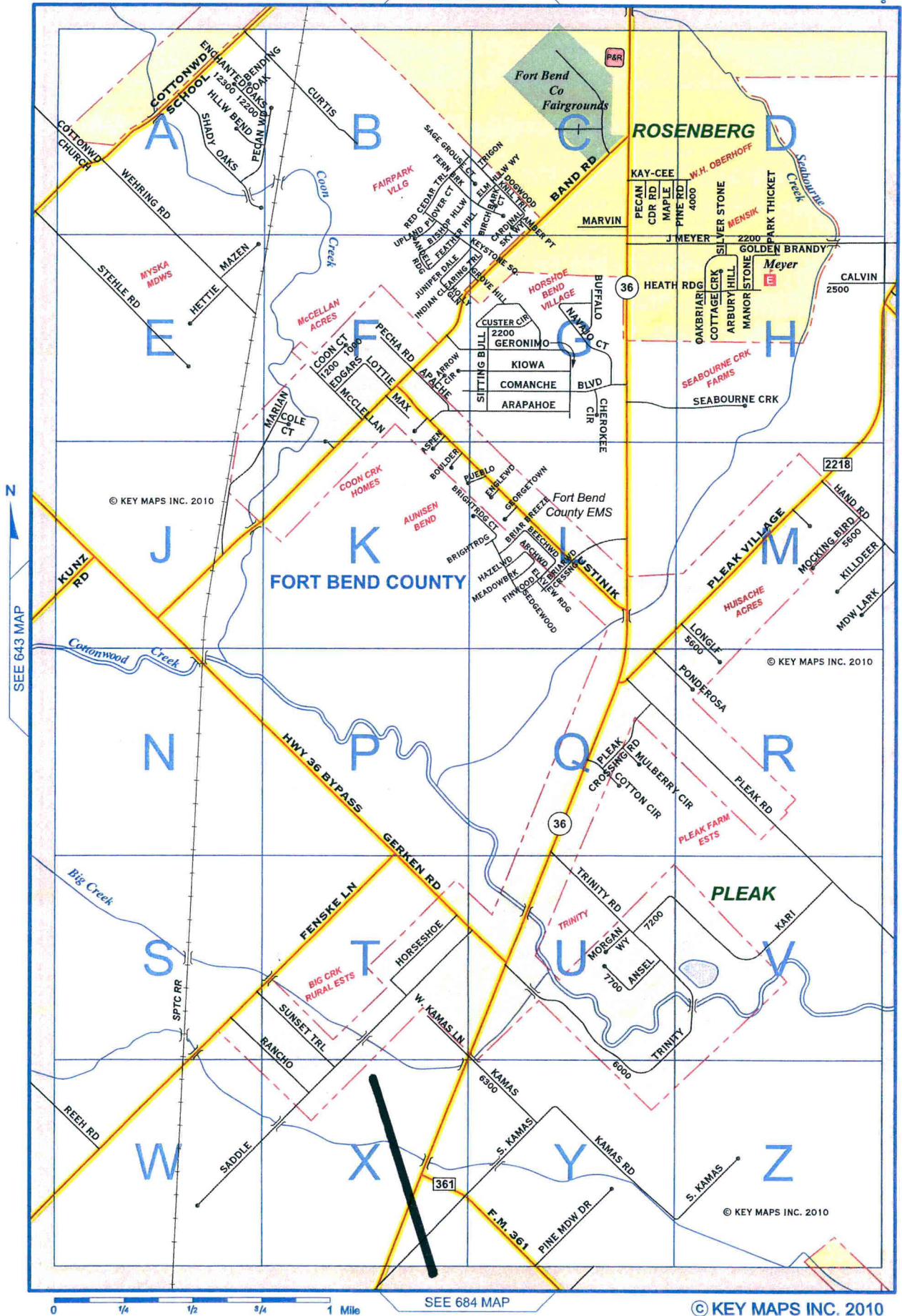


DRAWING ISSUES	CONSTRUCTION	LAST	ORIG.	DATE	REV.
BIDS					
APPROVAL					
INFORMATION					
ISSUED FOR:	SIGNATURE	DATE	REV.		
DRAWN:	SN	DATE:	11/26/12		
CHECKED:	JCL	DATE:	11/26/12		
ENGINEER:		DATE:			
W.E.I.:		DATE:			
CLIENT:		DATE:			
CLIENT:		DATE:			

CREEK CROSSING PERMIT

SEAWAY CRUDE PL COMPANY LLC
CREEK / 11-B & 10-B
FORT BEND COUNTY, TX

SCALE	PROJECT NO.	DRAWING NO.	SHEET	REV.
1"=100'	52068	TX-FB-0178.00030	1 OF 1	A



FORT BEND COUNTY, TEXAS

THE CONTRACTOR MUST NOTIFY DISTRICT ENGINEER 48 HOURS PRIOR TO CONSTRUCTION GIVING THE NAME OF THE CONSTRUCTION COMPANY, THE NAME AND NUMBER OF AN ON SITE SUPERVISOR, AND THE INTENDED START DATE. THE CONTRACTOR MUST NOTIFY THE PERMIT AGENT 48 HOURS PRIOR TO CONSTRUCTION TO ACCESS THE "UIR" PROGRAM AND GIVE 48 HOURS NOTICE INCLUDING IN THE COMMENTS BOX - THE CONSTRUCTION COMPANY NAME, CONTACT PERSON'S NAME, CELL NUMBER, AND START DATE. ALL ROAD BORES SHALL BE ACCOMPLISHED WITH THE CONVENTIONAL DRY AUGER, UNLESS OTHERWISE APPROVED BY A COUNTY ENGINEERING INSPECTOR, MAINTENANCE SUPERVISOR, OR AREA ENGINEER.

1. ALL MINIMUM DEPTH REQUIREMENTS MEASURED AT THE TOP OF PIPE OR CASING.

LEGEND

P.E.R.W. PERMANENT EASEMENT & RIGHT OF WAY
N.T.S. NOT TO SCALE
TOB TOP OF BANK
F.M. FARM TO MARKET
MIN. MINIMUM
EXISTING PIPELINE
POWER LINE
FENCE

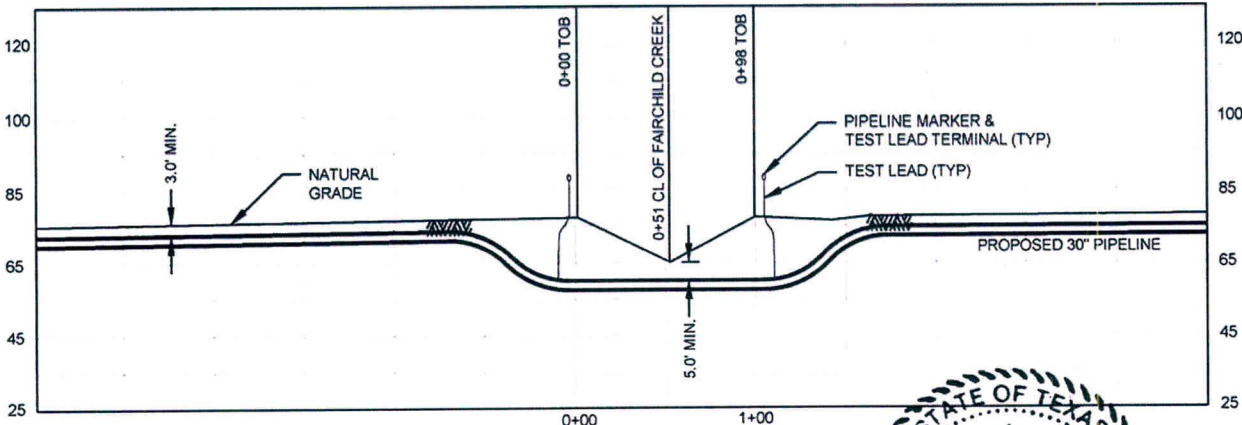
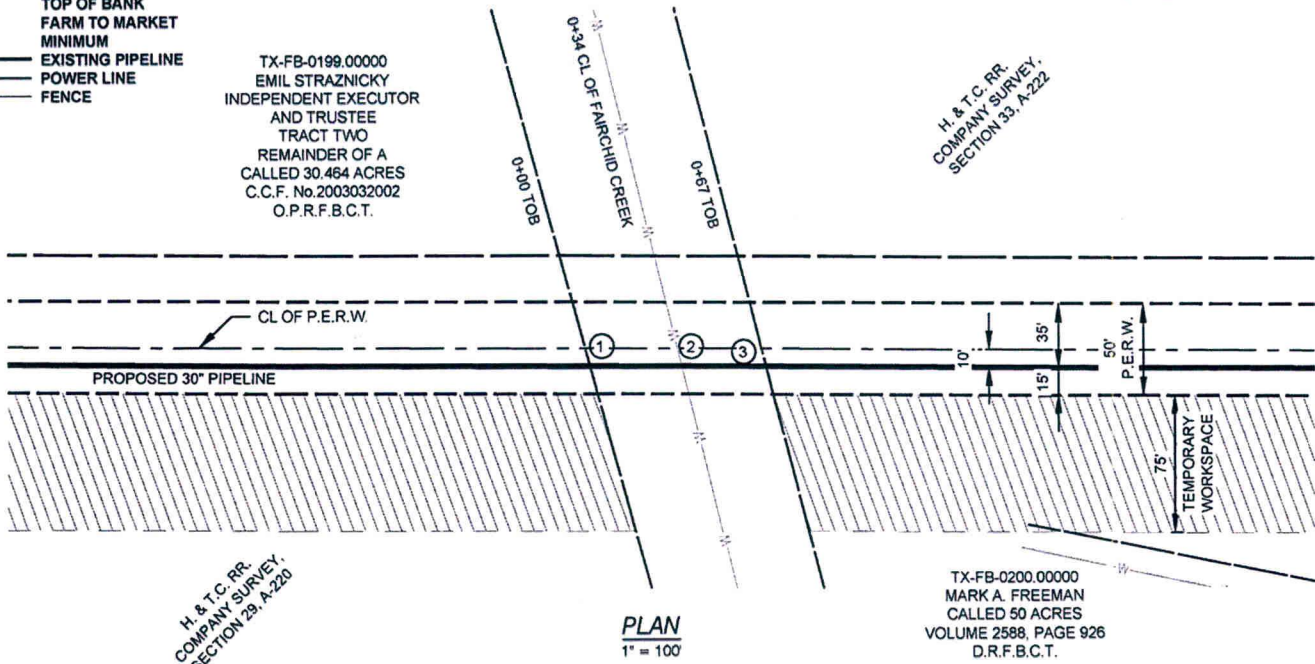
TX-FB-0199.00000
EMIL STRAZNICKY
INDEPENDENT EXECUTOR
AND TRUSTEE
TRACT TWO
REMAINDER OF A
CALLED 30.464 ACRES
C.C.F. No.2003032002
O.P.R.F.B.C.T.

LOCATION COORDINATES

1. X=2656823.07
Y=10695737.60
2. X=2656844.24
Y=10695691.37
3. X=2656863.64
Y=10695648.85

PROPOSED
CROSSING

VICINITY MAP
N.T.S.



PIPE SPECIFICATIONS

CONTENTS: CRUDE OIL
DESIGN FACTOR: 0.72
CARRIER PIPE: 30" O.D., 0.429" W.T., API 5L X70,
DSAW, PSL2
COATING: 15-22 MILS FBE
M.O.P.: 1,440 PSIG
PIPELINE CATHODICALLY PROTECTED
METHOD OF INSTALLATION: OPEN CUT

NOTE:

1. DATUM BASED ON TEXAS STATE PLANE COORDINATE SYSTEM, UTM NAD 83, ZONE 14N, NAVD 88, DERIVED FROM GPS OBSERVATION.
2. EXISTING UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS GENERATED FROM PREVIOUS MAPS AND SURVEY. CONTRACTOR SHALL VERIFY EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES IN AREA OF WORK PRIOR TO CONSTRUCTION AND CALL TEXAS ONE CALL SYSTEM AT 1-800-245-4545 AND ALL OTHER UTILITY COMPANIES AT LEAST 2 WORKING DAYS (48 HOURS) PRIOR TO CONSTRUCTION

SCALE IN FEET

100 50 0 100

PROFILE

1" = 100 H
1" = 50' V



I, Daniel R. Alcorn, Registered Professional Engineer in the State of Texas, P.E. No. 79234, an employee of BILFINGER TEPSCO INC., Texas Firm No. F-4669, have reviewed the pipeline design and pipe testing specifications of this permit and have found them accurate and suitable for the proposed project. Pipeline routing is based on information provided by others. Actual construction routing, both open cut and bore sections, may vary as required for safety, constructability, or for other engineering reasons. ALL UNDERGROUND UTILITIES, WHETHER SHOWN ON THESE DRAWINGS OR NOT, SHOULD BE LOCATED BY THE CONTRACTOR AT LEAST 48 HOURS PRIOR TO DIGGING, TRENCHING, OR BORING.

I attest ONLY to the engineering aspects of the pipeline, and DO NOT attest to the accuracy, completeness, usefulness, or correctness of other aspects of the project, including but not limited to, survey, right-of-way, property ownership determination, and location of existing facilities that are the responsibility of other parties.

NO.	DATE	REVISION	BY	CHK	APPR	APPR	APPR
A	12/10/12	ISSUED FOR REVIEW	AJ	JCL			



DRAWING ISSUES	CONSTRUCTION	LAST ORIG.	DATE	REV.
BIDS	LAST ORIG.			
APPROVAL	LAST ORIG.			
INFORMATION	LAST ORIG.			
ISSUED FOR:	SIGNATURE	DATE		
DRAWN:	AJ	DATE:	12/10/12	
CHECKED:	JCL	DATE:	12/10/12	
ENGINEER:		DATE:		
W.E.I.:		DATE:		
CLIENT:		DATE:		
CLIENT:		DATE:		

CREEK CROSSING PERMIT

SEAWAY CRUDE PL COMPANY LLC
FAIRCHILD CREEK / 11-B-10
FORT BEND COUNTY, TX

SCALE	PROJECT NO.	DRAWING NO.	SHEET	REV.
1" = 100'	52068	TX-FB-0199.00030	1 OF 1	A



FORT BEND COUNTY, TEXAS

THE CONTRACTOR MUST NOTIFY DISTRICT ENGINEER 48 HOURS PRIOR TO CONSTRUCTION GIVING THE NAME OF THE CONSTRUCTION COMPANY, THE NAME AND NUMBER OF AN ON SITE SUPERVISOR, AND THE INTENDED START DATE. THE CONTRACTOR MUST NOTIFY THE PERMIT AGENT 48 HOURS PRIOR TO CONSTRUCTION TO ACCESS THE "UIR" PROGRAM AND GIVE 48 HOURS NOTICE INCLUDING IN THE COMMENTS BOX - THE CONSTRUCTION COMPANY NAME, CONTACT PERSON'S NAME, CELL NUMBER, AND START DATE. ALL ROAD BORES SHALL BE ACCOMPLISHED WITH THE CONVENTIONAL DRY AUGER, UNLESS OTHERWISE APPROVED BY A COUNTY ENGINEERING INSPECTOR, MAINTENANCE SUPERVISOR, OR AREA ENGINEER.

1. ALL MINIMUM DEPTH REQUIREMENTS MEASURED AT THE TOP OF PIPE OR CASING.

LEGEND

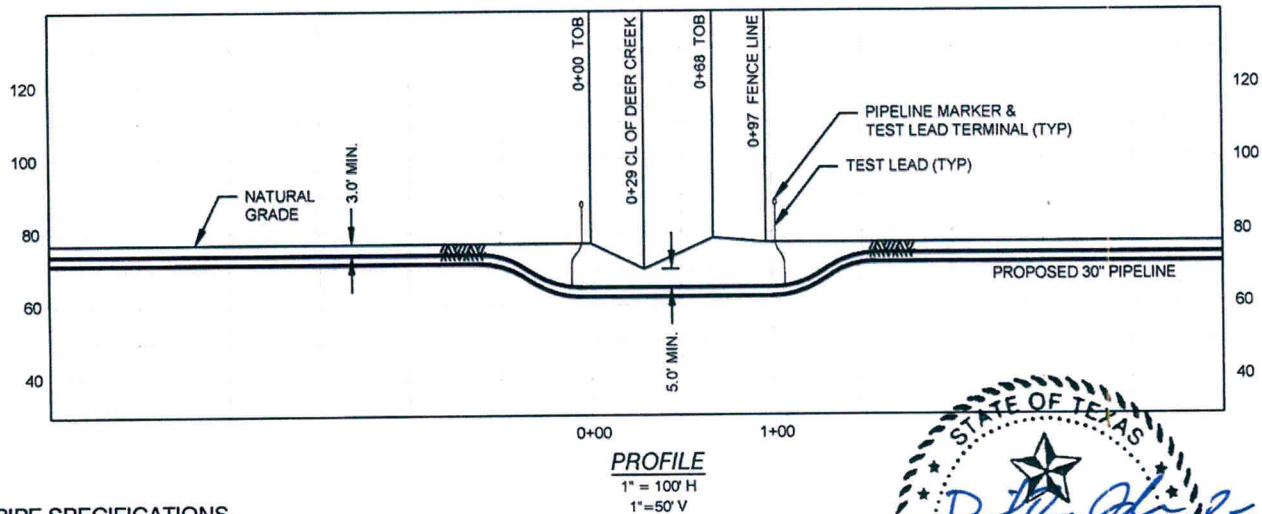
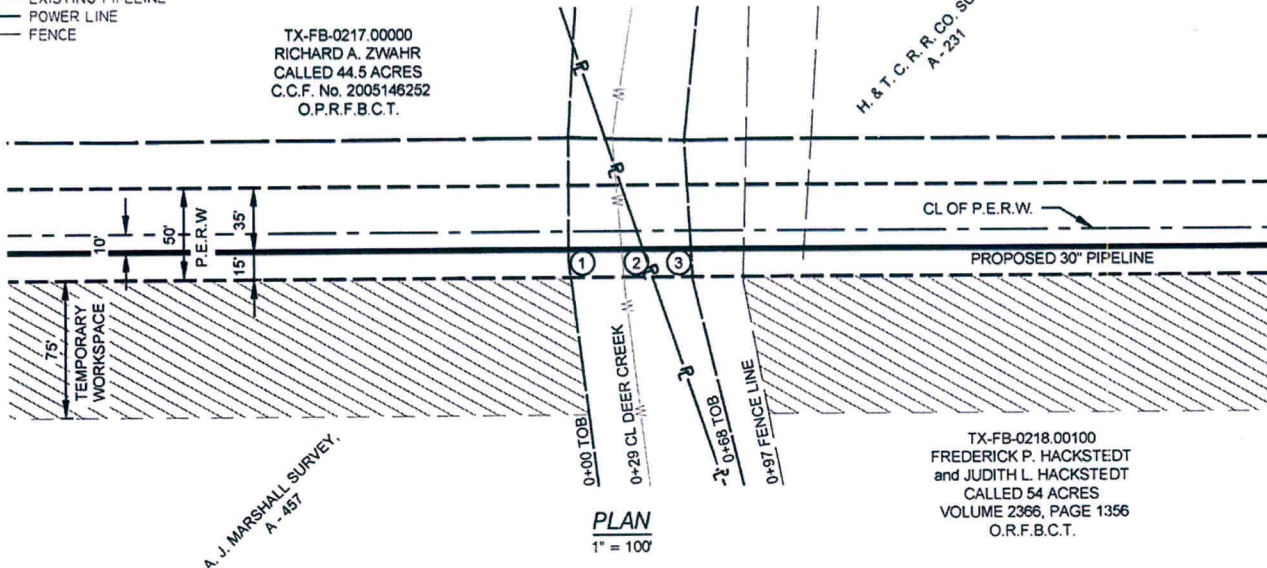
P.E.R.W. PERMANENT EASEMENT & RIGHT OF WAY
N.T.S. NOT TO SCALE
ROW RIGHT OF WAY
TOB TOB OF BANK
F.M. FARM TO MARKET
MIN. MINIMUM
EXISTING PIPELINE
P POWER LINE
FENCE

LOCATION COORDINATES

1. X=2664203.96
Y=10678892.27
2. X=2664218.32
Y=10678866.75
3. X=2664237.21
Y=10678833.20

VICINITY MAP

N.T.S.



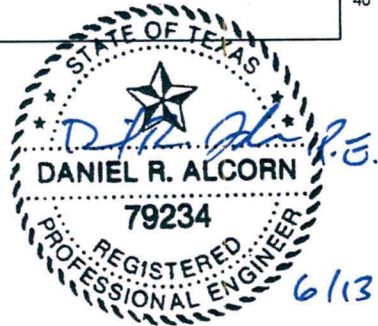
PIPE SPECIFICATIONS

CONTENTS: CRUDE OIL
DESIGN FACTOR: 0.72
CARRIER PIPE: 30"Ø, 0.429" w.t., API 5L X70,
DSAW, PS12
COATING: 15-22 MILS FBE
M.O.P.: 1,440 PSIG
PIPELINE CATHODICALLY PROTECTED
METHOD OF INSTALLATION: OPEN CUT

NOTE:

- DATUM BASED ON TEXAS STATE PLANE COORDINATE SYSTEM, UTM NAD 83, ZONE 14N, NAVD 88, DERIVED FROM GPS OBSERVATION.
- EXISTING UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS GENERATED FROM PREVIOUS MAPS AND SURVEY. CONTRACTOR SHALL VERIFY EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES IN AREA OF WORK PRIOR TO CONSTRUCTION AND CALL TEXAS ONE CALL SYSTEM AT 1-800-245-4545 AND ALL OTHER UTILITY COMPANIES AT LEAST 2 WORKING DAYS (48 HOURS) PRIOR TO CONSTRUCTION

SCALE IN FEET



I, Daniel R. Alcorn, Registered Professional Engineer in the State of Texas, P.E. No. 79234, an employee of BILFINGER TEPSCO INC., Texas Firm No. F-4669, have reviewed the pipeline design and pipe testing specifications of this permit and have found them accurate and suitable for the proposed project. Pipeline routing is based on information provided by others. Actual construction routing, both open cut and bore sections, may vary as required for safety, constructability, or for other engineering reasons. ALL UNDERGROUND UTILITIES, WHETHER SHOWN ON THESE DRAWINGS OR NOT, SHOULD BE LOCATED BY THE CONTRACTOR AT LEAST 48 HOURS PRIOR TO DIGGING, TRENCHING, OR BORING.

I attest ONLY to the engineering aspects of the pipeline, and DO NOT attest to the accuracy, completeness, usefulness, or correctness of other aspects of the project, including but not limited to, survey, right-of-way, property ownership determination, and location of existing facilities that are the responsibility of other parties.

NO.	DATE	REVISION	BY	CHK	APPR	APPR	APPR
A	11/20/12	ISSUED FOR REVIEW	MP	JCL	JAW		



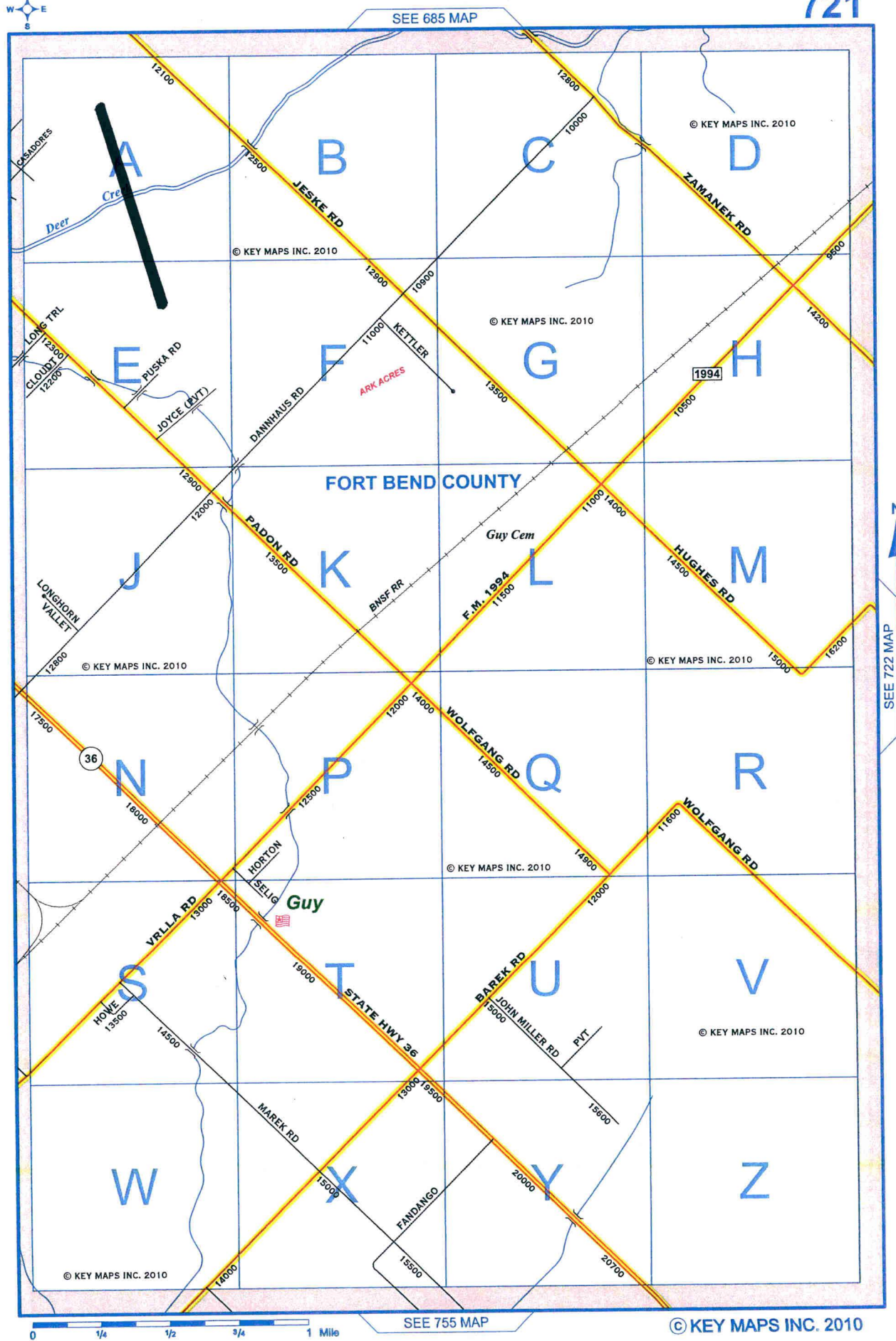
WILLBROS ENGINEERS
(U.S.) LLC
4400 Post Oak Parkway
Houston, TX, 77027
(713) 403-8000 TX-F-82

DRAWING ISSUES	CONSTRUCTION	LAST ORG.	DATE	REV.
BIDS	LAST ORG.			
APPROVAL	LAST ORG.			
INFORMATION	LAST ORG.			
ISSUED FOR:	SIGNATURE	DATE		
DRAWN:	MP	DATE:	11/20/12	
CHECKED:	JCL	DATE:	11/20/12	
ENGINEER:		DATE:		
W.E.I.:		DATE:		
CLIENT:		DATE:		
CLIENT:		DATE:		

CREEK CROSSING PERMIT

SEAWAY CRUDE PL COMPANY LLC
DEER CREEK **II-B-5**
FORT BEND COUNTY, TX

SCALE	PROJECT NO.	DRAWING NO.	SHEET	REV.
1"=100'	52068	TX-FB-0218.00030	1 OF 1	A



FORT BEND COUNTY, TEXAS

THE CONTRACTOR MUST NOTIFY DISTRICT ENGINEER 48 HOURS PRIOR TO CONSTRUCTION GIVING THE NAME OF THE CONSTRUCTION COMPANY, THE NAME AND NUMBER OF AN ON SITE SUPERVISOR, AND THE INTENDED START DATE. THE CONTRACTOR MUST NOTIFY THE PERMIT AGENT 48 HOURS PRIOR TO CONSTRUCTION TO ACCESS THE "UIR" PROGRAM AND GIVE 48 HOURS NOTICE INCLUDING IN THE COMMENTS BOX - THE CONSTRUCTION COMPANY NAME, CONTACT PERSON'S NAME, CELL NUMBER, AND START DATE.
ALL ROAD BORES SHALL BE ACCOMPLISHED WITH THE CONVENTIONAL DRY AUGER, UNLESS OTHERWISE APPROVED BY A COUNTY ENGINEERING INSPECTOR, MAINTENANCE SUPERVISOR, OR AREA ENGINEER.

1. ALL MINIMUM DEPTH REQUIREMENTS MEASURED AT THE TOP OF PIPE OR CASING.

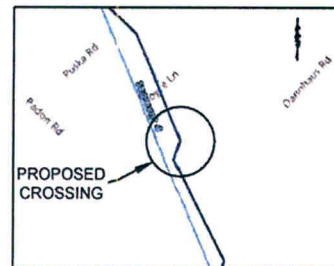
LEGEND

P.E.R.W. PERMANENT EASEMENT & RIGHT OF WAY
N.T.S. NOT TO SCALE
ROW RIGHT OF WAY
TOB TOP OF BANK
F.M. FARM TO MARKET
MIN. MINIMUM
EXISTING PIPELINE
P POWER LINE
FENCE

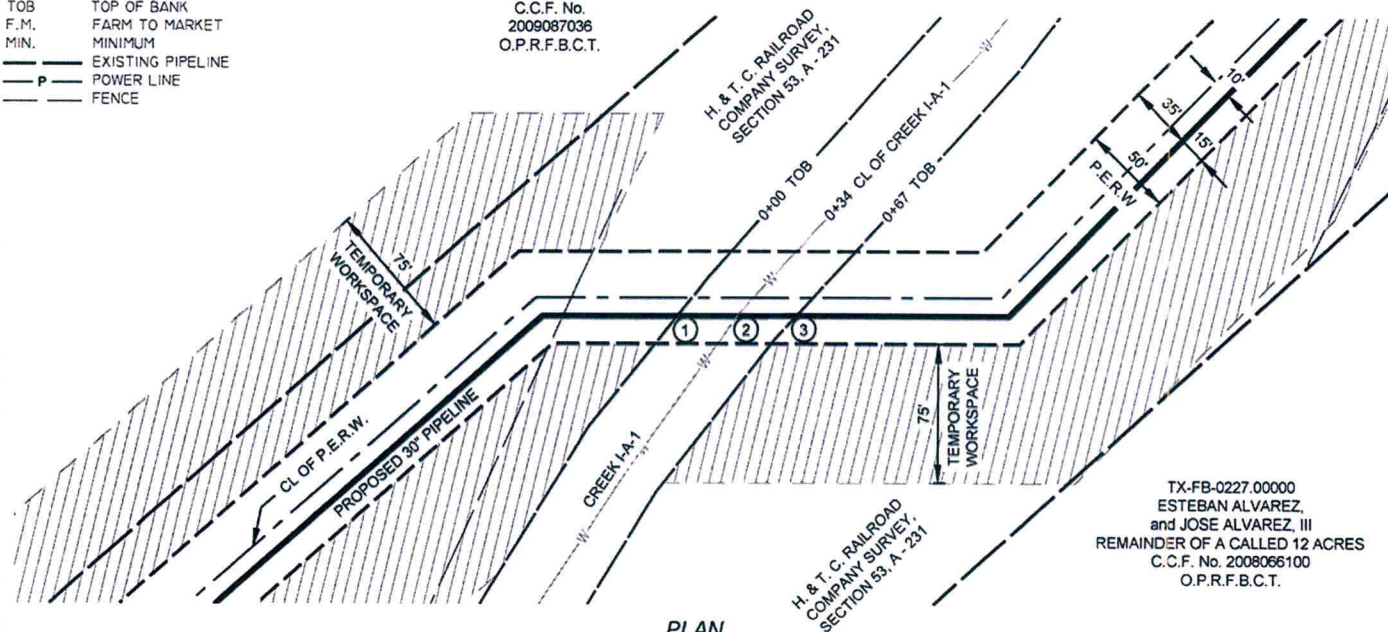
TX-FB-0227.00100
JOSE ALVAREZ, Jr.
CALLED 3 ACRES
C.C.F. No.
2009087036
O.P.R.F.B.C.T.

LOCATION COORDINATES

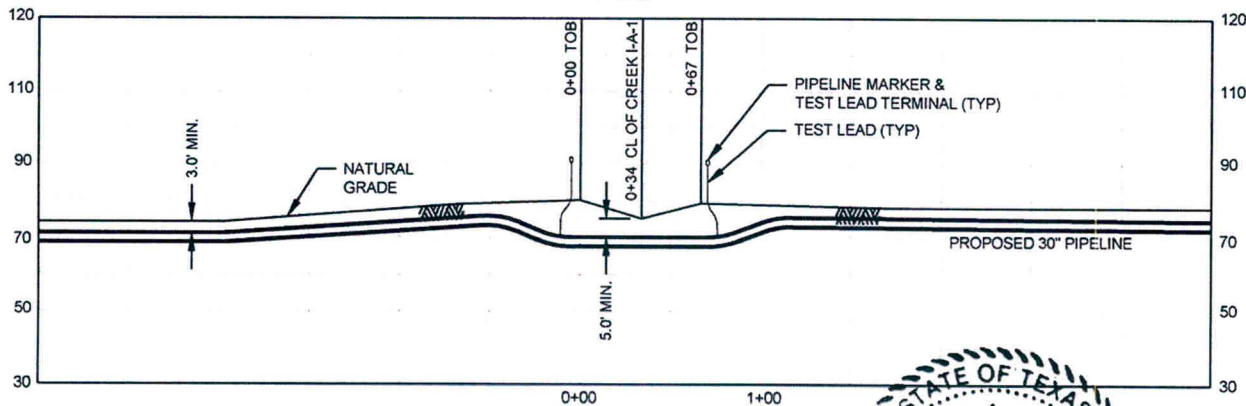
1. X=2666627.22
Y=10674636.34
2. X=2666617.78
Y=10674604.31
3. X=2666608.66
Y=10674573.35



VICINITY MAP
N.T.S.



PLAN
1" = 100'



PROFILE
1" = 100' H
1" = 50' V

PIPE SPECIFICATIONS

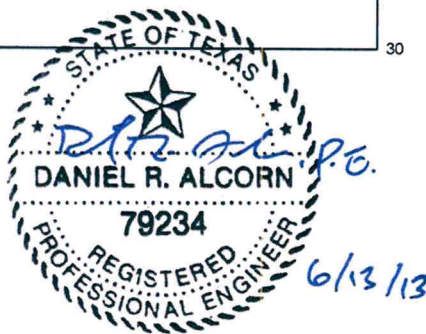
CONTENTS: CRUDE OIL
DESIGN FACTOR: 0.72
CARRIER PIPE: 30" O, 0.429" W.L., API 5L X70,
DSAW, PSL2
COATING: 15-22 MILS FBE
M.O.P.: 1,440 PSIG
PIPELINE CATHODICALLY PROTECTED
METHOD OF INSTALLATION: OPEN CUT

NOTE:

1. DATUM BASED ON TEXAS STATE PLANE COORDINATE SYSTEM, UTM NAD 83, ZONE 14N, NAVD 88, DERIVED FROM GPS OBSERVATION.
2. EXISTING UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS GENERATED FROM PREVIOUS MAPS AND SURVEY. CONTRACTOR SHALL VERIFY EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES IN AREA OF WORK PRIOR TO CONSTRUCTION AND CALL TEXAS ONE CALL SYSTEM AT 1-800-245-4545 AND ALL OTHER UTILITY COMPANIES AT LEAST 2 WORKING DAYS (48 HOURS) PRIOR TO CONSTRUCTION

SCALE IN FEET

100 50 0 100



I, Daniel R. Alcorno, Registered Professional Engineer in the State of Texas, P.E. No. 79234, an employee of BILFINGER TEPSCO INC., Texas Firm No. F-4669, have reviewed the pipeline design and pipe testing specifications of this permit and have found them accurate and suitable for the proposed project. Pipeline routing is based on information provided by others. Actual construction routing, both open cut and bore sections, may vary as required for safety, constructability, or for other engineering reasons. ALL UNDERGROUND UTILITIES, WHETHER SHOWN ON THESE DRAWINGS OR NOT, SHOULD BE LOCATED BY THE CONTRACTOR AT LEAST 48 HOURS PRIOR TO DIGGING, TRENCHING, OR BORING.

I attest ONLY to the engineering aspects of the pipeline, and DO NOT attest to the accuracy, completeness, usefulness, or correctness of other aspects of the project, including but not limited to, survey, right-of-way, property ownership determination, and location of existing facilities that are the responsibility of other parties.

NO.	DATE	REVISION	BY	CHK	APPR	APPR	APPR
A	11/30/12	ISSUED FOR REVIEW	AJ	JCL	JAW		



WILLBROS ENGINEERS
(U.S.) LLC
4400 Post Oak Parkway
Houston, TX. 77027
(713) 403-8000 TX-F-82

DRAWING ISSUES	CONSTRUCTION	LAST	ORIG.	DATE	REV.
BIDS	LAST	ORIG.			
APPROVAL	LAST	ORIG.			
INFORMATION	LAST	ORIG.			
ISSUED FOR:	SIGNATURE	DATE			
DRAWN:	AJ	DATE:	11/30/12		
CHECKED:	JCL	DATE:	11/30/12		
ENGINEER:		DATE:			
W.E.I.:		DATE:			
CLIENT:		DATE:			
CLIENT:		DATE:			

CREEK CROSSING PERMIT

SEAWAY CRUDE PL COMPANY LLC

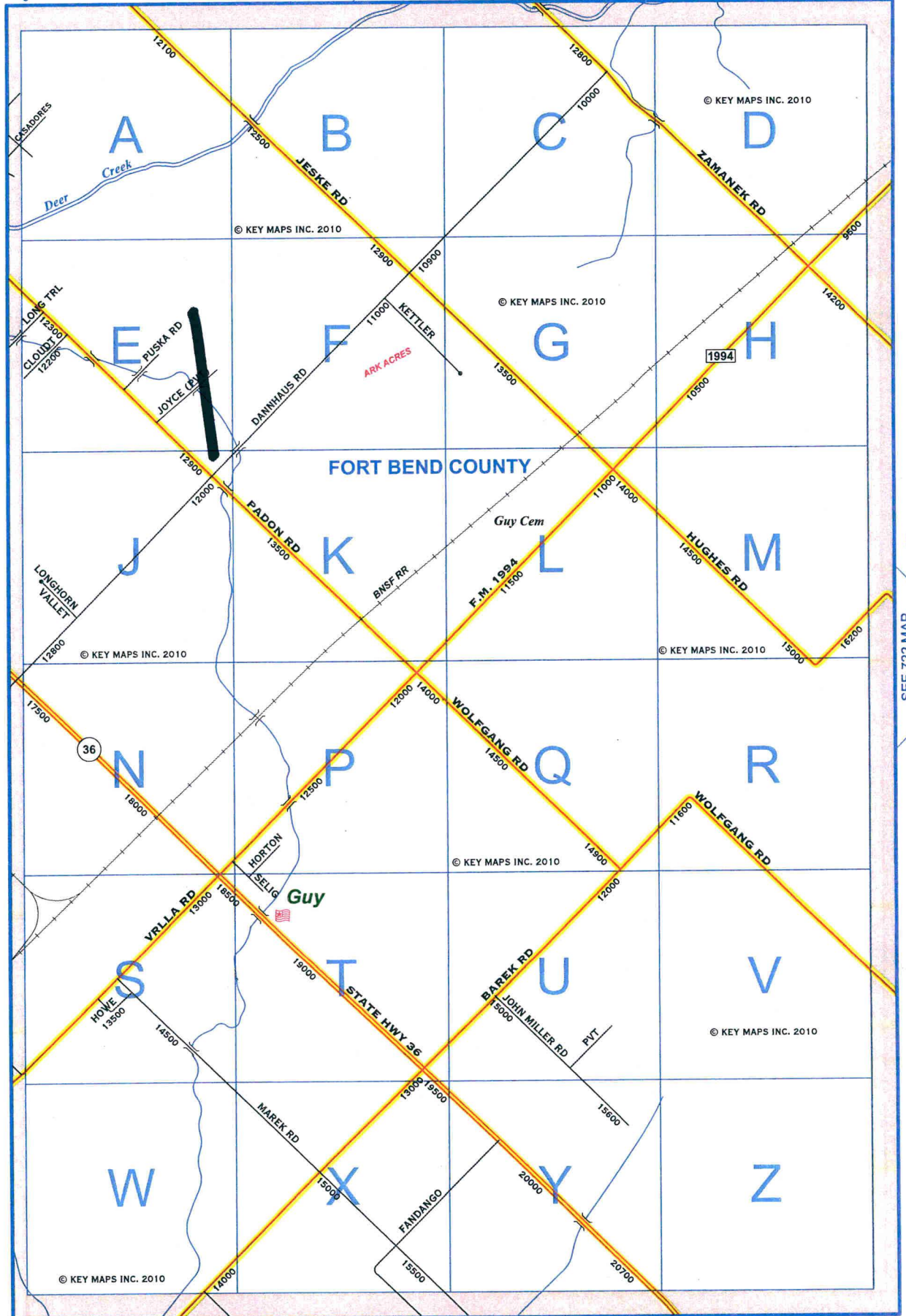
CREEK I-A-1

FORT BEND COUNTY, TX

SCALE	PROJECT NO.	DRAWING NO.	SHEET	REV.
1"=100'	52068	TX-FB-0227.00030	1 OF 1	A



SEE 685 MAP



SEE 722 MAP



SEE 755 MAP

FORT BEND COUNTY, TEXAS

THE CONTRACTOR MUST NOTIFY DISTRICT ENGINEER 48 HOURS PRIOR TO CONSTRUCTION GIVING THE NAME OF THE CONSTRUCTION COMPANY, THE NAME AND NUMBER OF AN ON SITE SUPERVISOR, AND THE INTENDED START DATE. THE CONTRACTOR MUST NOTIFY THE PERMIT AGENT 48 HOURS PRIOR TO CONSTRUCTION TO ACCESS THE "UIR" PROGRAM AND GIVE 48 HOURS NOTICE INCLUDING IN THE COMMENTS BOX - THE CONSTRUCTION COMPANY NAME, CONTACT PERSONS NAME, CELL NUMBER, AND START DATE.

ALL ROAD BORES SHALL BE ACCOMPLISHED WITH THE CONVENTIONAL DRY AUGER, UNLESS OTHERWISE APPROVED BY A COUNTY ENGINEERING INSPECTOR, MAINTENANCE SUPERVISOR, OR AREA ENGINEER.

1. ALL MINIMUM DEPTH REQUIREMENTS MEASURED AT THE TOP OF PIPE OR CASING.

LEGEND

- P.E.R.W. PERMANENT EASEMENT & RIGHT OF WAY
N.T.S. NOT TO SCALE
ROW RIGHT OF WAY
TOB TOP OF BANK
F.M. FARM TO MARKET
MIN. MINIMUM
EXISTING PIPELINE
P POWER LINE
FENCE
POWER POLE

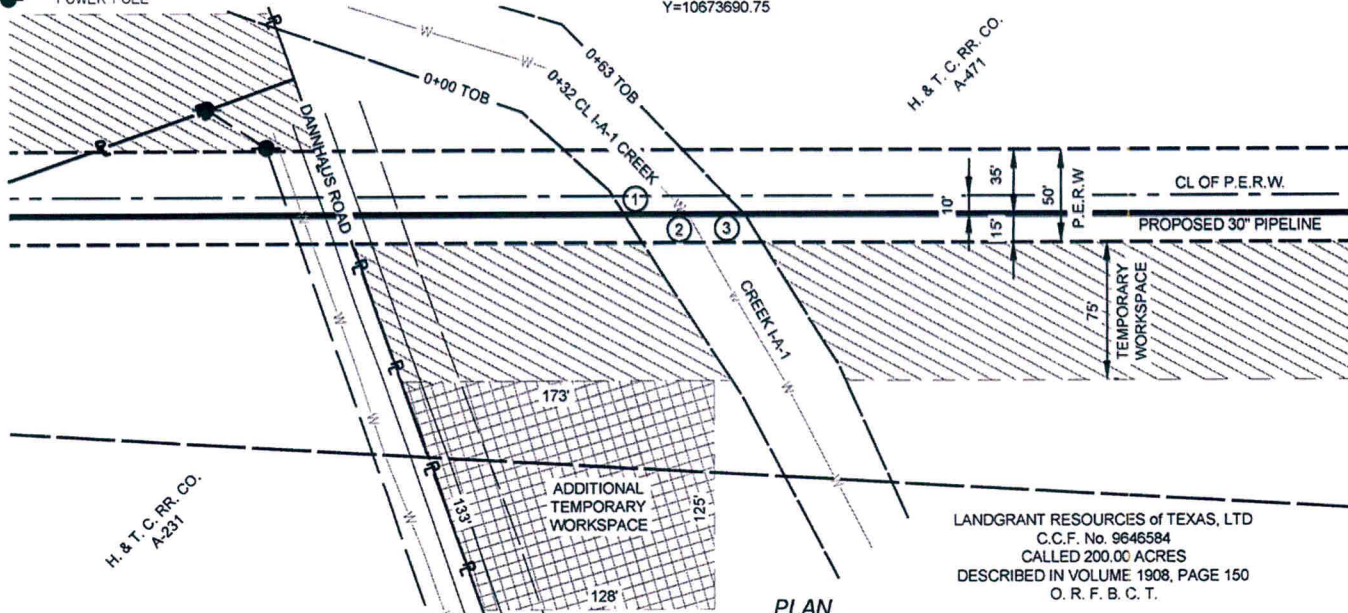
ALLEN K. STRUSKA
CALLED 2.00 ACRES
C.C.F. No. 98106079
O. P. R. F. B. C. T.

LOCATION COORDINATES

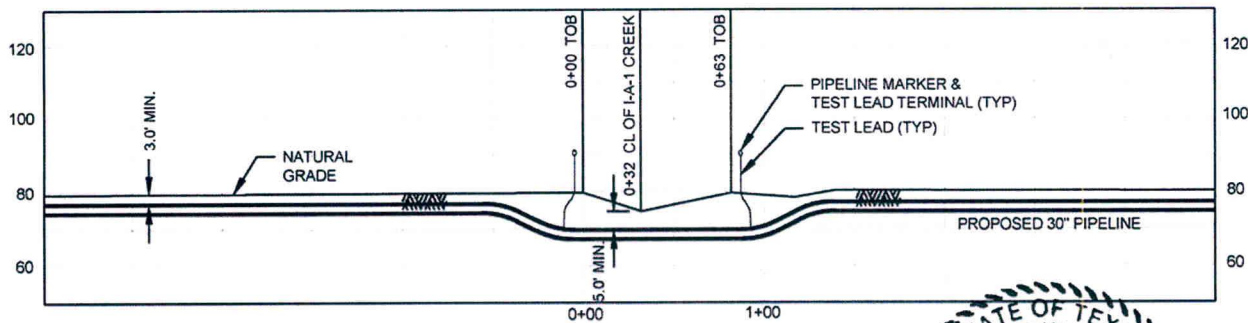
1. X=2666962.97
Y=10673748.87
2. X=2666979.63
Y=10673718.30
3. X=2666994.65
Y=10673690.75

VICINITY MAP

N.T.S.



PLAN
1" = 100'



PROFILE
1" = 100' H
1" = 50' V

PIPE SPECIFICATIONS

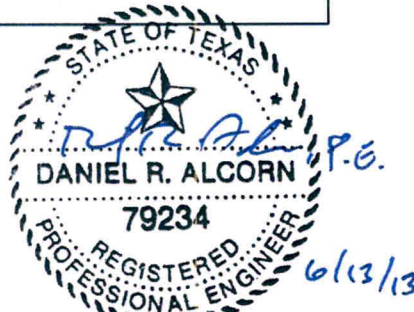
CONTENTS: CRUDE OIL
DESIGN FACTOR: 0.72
CARRIER PIPE: 30" O.D., 0.429" w.t., API 5L X70,
DSAW, PSL2
COATING: 15-22 MILS FBE
M.O.P.: 1,440 PSIG
PIPELINE CATHODICALLY PROTECTED
METHOD OF INSTALLATION: OPEN CUT

NOTE:

- DATUM BASED ON TEXAS STATE PLANE COORDINATE SYSTEM, UTM NAD 83, ZONE 14N, NAVD 88, DERIVED FROM GPS OBSERVATION.
- EXISTING UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS GENERATED FROM PREVIOUS MAPS AND SURVEY. CONTRACTOR SHALL VERIFY EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES IN AREA OF WORK PRIOR TO CONSTRUCTION AND CALL TEXAS ONE CALL SYSTEM AT 1-800-245-4545 AND ALL OTHER UTILITY COMPANIES AT LEAST 2 WORKING DAYS (48 HOURS) PRIOR TO CONSTRUCTION

SCALE IN FEET

100 50 0 100



I, Daniel R. Alcorn, Registered Professional Engineer in the State of Texas, P.E. No. 79234, an employee of BILFINGER TEPSCO INC., Texas Firm No. F-4669, have reviewed the pipeline design and pipe testing specifications of this permit and have found them accurate and suitable for the proposed project. Pipeline routing is based on information provided by others. Actual construction routing, both open cut and bore sections, may vary as required for safety, constructability, or for other engineering reasons. ALL UNDERGROUND UTILITIES, WHETHER SHOWN ON THESE DRAWINGS OR NOT, SHOULD BE LOCATED BY THE CONTRACTOR AT LEAST 48 HOURS PRIOR TO DIGGING, TRENCHING, OR BORING.

I attest ONLY to the engineering aspects of the pipeline, and DO NOT attest to the accuracy, completeness, usefulness, or correctness of other aspects of the project, including but not limited to, survey, right-of-way, property ownership determination, and location of existing facilities that are the responsibility of other parties.

NO.	DATE	REVISION	BY	CHK	APPR	APPR	APPR
A	12/4/12	ISSUED FOR REVIEW	AJ	JCL	JAW		



WILLBROS ENGINEERS
(U.S.) LLC
4400 Post Oak Parkway
Houston, TX. 77027
(713) 403-8000 TX-F-82

DRAWING ISSUES	CONSTRUCTION	LAST ORG.			
	BIDS	LAST ORG.			
	APPROVAL	LAST ORG.			
	INFORMATION	LAST ORG.			
DRAWING APPROVALS	ISSUED FOR:	SIGNATURE	DATE	REV.	
	DRAWN:	AJ	DATE: 12/4/12		
	CHECKED:	JCL	DATE: 12/4/12		
	ENGINEER:		DATE:		
	W.E.I.:		DATE:		
	CLIENT:		DATE:		
	CLIENT:		DATE:		

CREEK CROSSING PERMIT

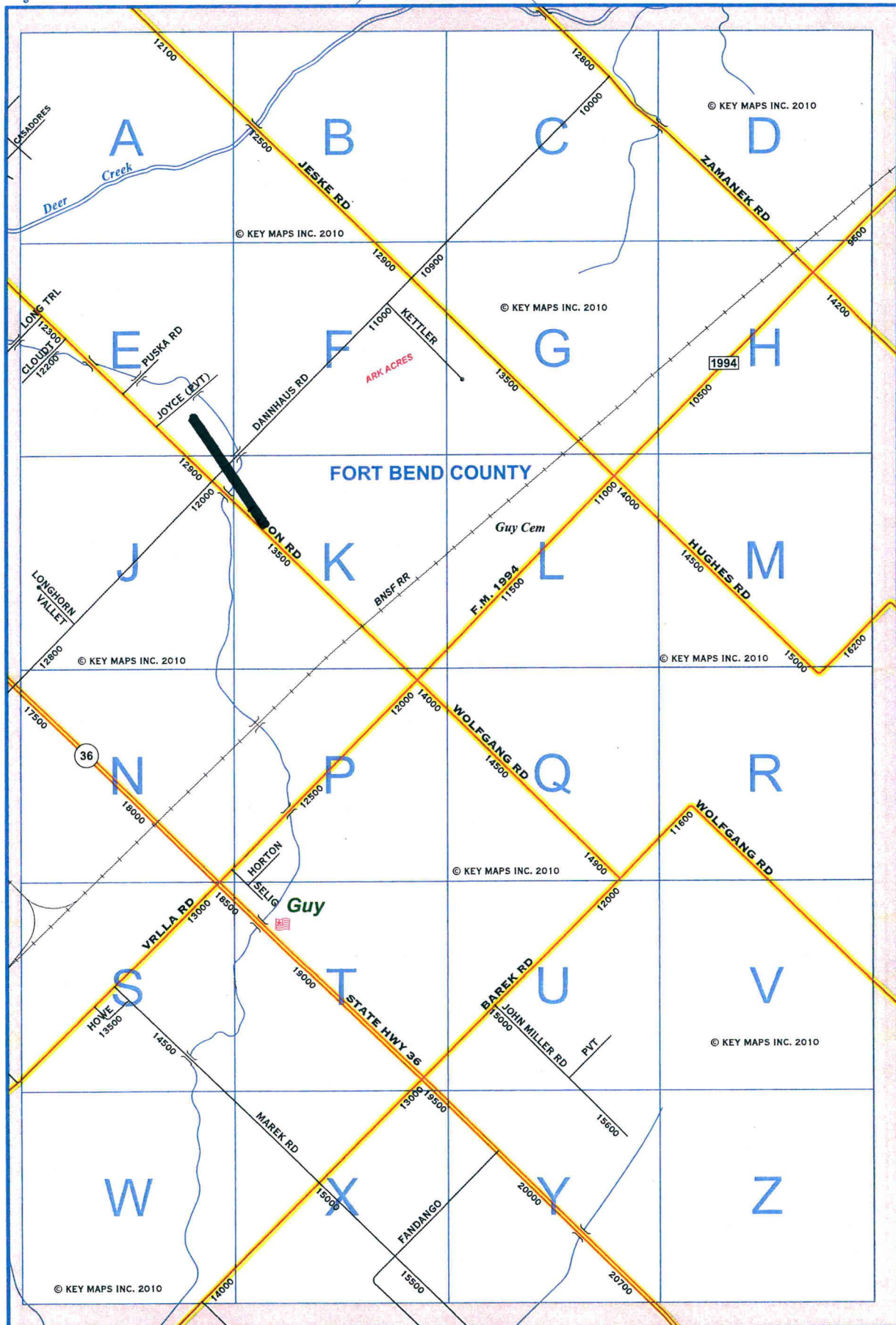
SEAWAY CRUDE PL COMPANY LLC
CREEK I-A-1
FORT BEND COUNTY, TX

SCALE	PROJECT NO.	DRAWING NO.	SHEET	REV.
1"=100'	52068	TX-FB-0231.00030	1 OF 1	A



SEE 685 MAP

721



0 1/4 1/2 3/4 1 Mile

SEE 755 MAP

© KEY MAPS INC. 2010

SEE 722 MAP

FORT BEND COUNTY, TEXAS

THE CONTRACTOR MUST NOTIFY DISTRICT ENGINEER 48 HOURS PRIOR TO CONSTRUCTION GIVING THE NAME OF THE CONSTRUCTION COMPANY, THE NAME AND NUMBER OF AN ON SITE SUPERVISOR, AND THE INTENDED START DATE. THE CONTRACTOR MUST NOTIFY THE PERMIT AGENT 48 HOURS PRIOR TO CONSTRUCTION TO ACCESS THE "UIR" PROGRAM AND GIVE 48 HOURS NOTICE INCLUDING IN THE COMMENTS BOX - THE CONSTRUCTION COMPANY NAME, CONTACT PERSON'S NAME, CELL NUMBER, AND START DATE. ALL ROAD BORES SHALL BE ACCOMPLISHED WITH THE CONVENTIONAL DRY AUGER, UNLESS OTHERWISE APPROVED BY A COUNTY ENGINEERING INSPECTOR, MAINTENANCE SUPERVISOR, OR AREA ENGINEER.

1. ALL MINIMUM DEPTH REQUIREMENTS MEASURED AT THE TOP OF PIPE OR CASING.

LEGEND

P.E.R.W. PERMANENT EASEMENT & RIGHT OF WAY
N.T.S. NOT TO SCALE
TOB TOP OF BANK
EXISTING PIPELINE
P POWER LINE
FENCE

TX-FB-0250.00000
ELOYSE WRIGHT
CALLED 67.97 ACRES
C.C.F. No. 2009097223
O.P.R.F.B.C.T.

TX-FB-0249.00000
VERNA DELL MCGUIRE
CAUSE No. 17349
O.P.R.F.B.C.T.

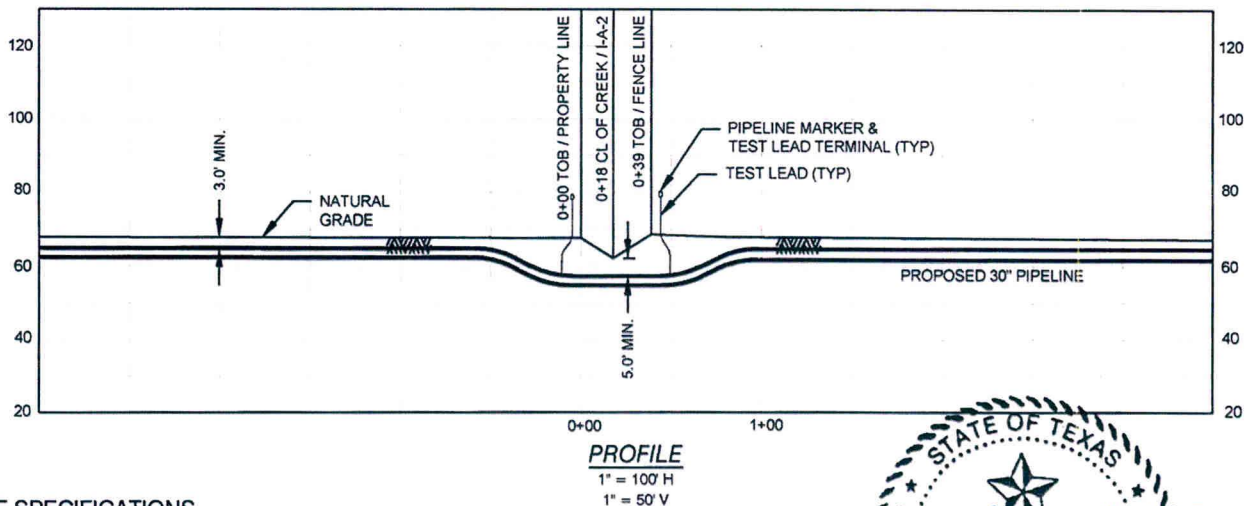
LOCATION COORDINATES

1. X=2673497.85
Y=10658678.18
2. X=2673505.95
Y=10658661.35
3. X=2673516.25
Y=10658639.95

PROPOSED CROSSING

VICINITY MAP
N.T.S.

H. & T. C. R.R. COMPANY
SURVEY, SECTION 107, A - 254



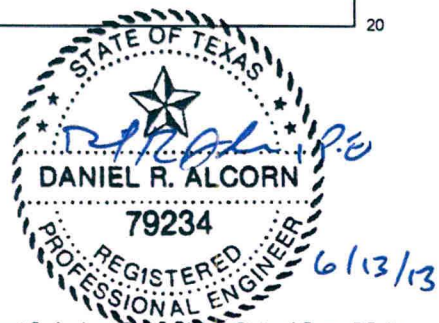
PIPE SPECIFICATIONS

CONTENTS: CRUDE OIL
DESIGN FACTOR: 0.72
CARRIER PIPE: 30"Ø, 0.429" w.t., API 5L X70,
DSAW, PSL2
COATING: 15-22 MILS FBE
M.O.P.: 1,440 PSIG
PIPELINE CATHODICALLY PROTECTED
METHOD OF INSTALLATION: OPEN CUT

NOTE:

1. DATUM BASED ON TEXAS STATE PLANE COORDINATE SYSTEM, UTM NAD 83, ZONE 14N, NAVD 88, DERIVED FROM GPS OBSERVATION.
2. EXISTING UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS GENERATED FROM PREVIOUS MAPS AND SURVEY. CONTRACTOR SHALL VERIFY EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES IN AREA OF WORK PRIOR TO CONSTRUCTION AND CALL TEXAS ONE CALL SYSTEM AT 1-800-245-4545 AND ALL OTHER UTILITY COMPANIES AT LEAST 2 WORKING DAYS (48 HOURS) PRIOR TO CONSTRUCTION

SCALE IN FEET



I, Daniel R. Alcorn, Registered Professional Engineer in the State of Texas, P.E. No. 79234, an employee of BILFINGER TEPSCO INC., Texas Firm No. F-4669, have reviewed the pipeline design and pipe testing specifications of this permit and have found them accurate and suitable for the proposed project. Pipeline routing is based on information provided by others. Actual construction routing, both open cut and bore sections, may vary as required for safety, constructability, or for other engineering reasons. ALL UNDERGROUND UTILITIES, WHETHER SHOWN ON THESE DRAWINGS OR NOT, SHOULD BE LOCATED BY THE CONTRACTOR AT LEAST 48 HOURS PRIOR TO DIGGING, TRENCHING, OR BORING.

I attest ONLY to the engineering aspects of the pipeline, and DO NOT attest to the accuracy, completeness, usefulness, or correctness of other aspects of the project, including but not limited to, survey, right-of-way, property ownership determination, and location of existing facilities that are the responsibility of other parties.

NO.	DATE	REVISION	BY	CHK	APPR	APPR	APPR
A	12/6/12	ISSUED FOR REVIEW	AJ	JCL	JAW		



WILLBROS ENGINEERS
(U.S.) LLC
4400 Post Oak Parkway
Houston, TX. 77027
(713) 403-8000 TX-F-82

DRAWING ISSUES	CONSTRUCTION	LAST	ORIG.
	BIDS	LAST	ORIG.
	APPROVAL	LAST	ORIG.
	INFORMATION	LAST	ORIG.
	ISSUED FOR:	SIGNATURE	DATE
	DRAWN:	AJ	DATE: 12/6/12
	CHECKED:	JCL	DATE: 12/6/12
	ENGINEER:		DATE:
	W.E.I.:		DATE:
	CLIENT:		DATE:
	CLIENT:		DATE:

CREEK CROSSING PERMIT

SEAWAY CRUDE PL COMPANY LLC

CREEK / I-A-2

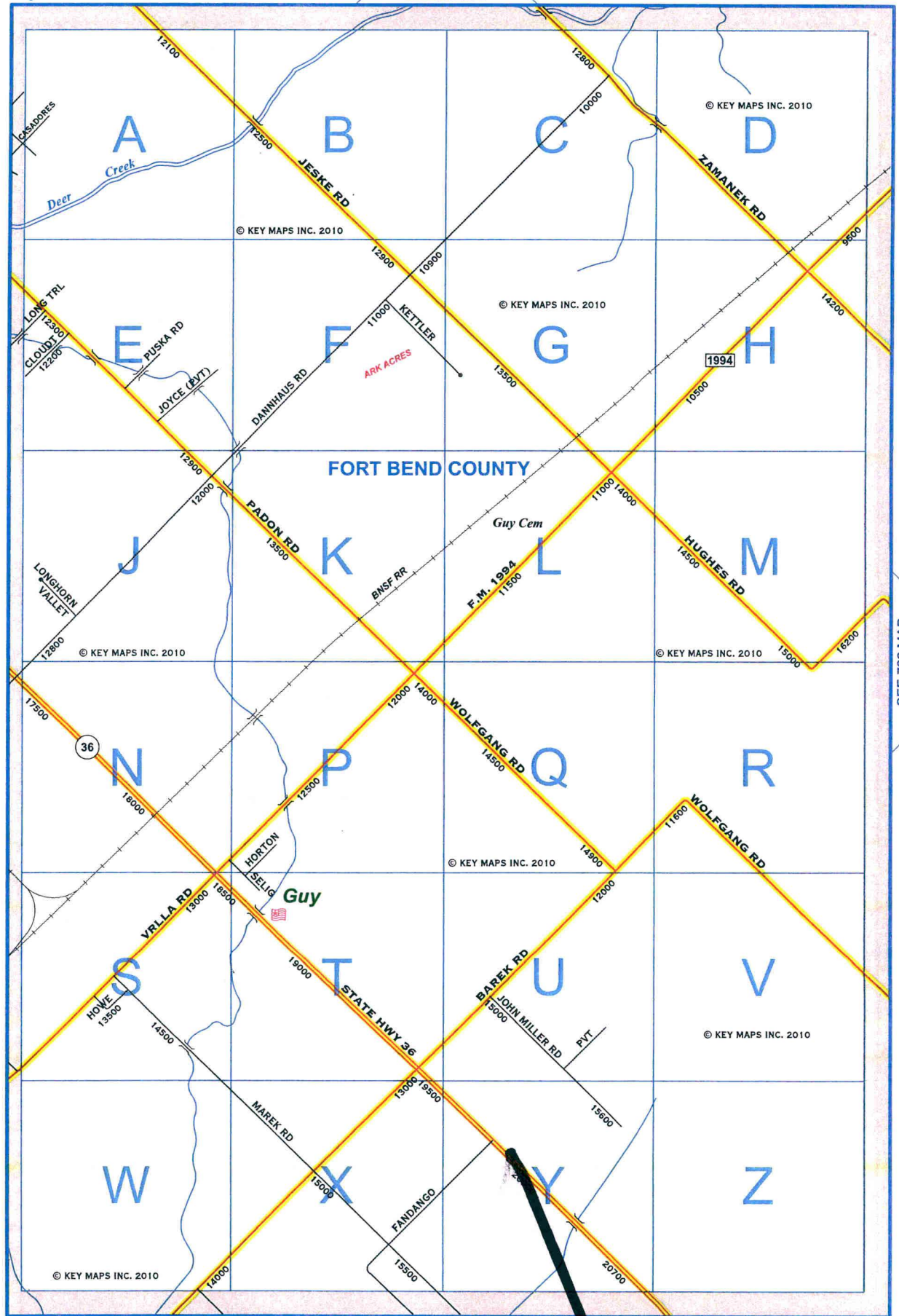
FORT BEND COUNTY, TX

SCALE	PROJECT NO.	DRAWING NO.	SHEET	REV.
1"=100'	52068	TX-FB-0249.00030	1 OF 1	A



SEE 685 MAP

721



0 1/4 1/2 3/4 1 Mile

SEE 755 MAP

© KEY MAPS INC. 2010

SEE 722 MAP