

# REVIEW BY FORT BEND COUNTY COMMISSIONERS COURT

105

On this 03 day of FEBRUARY, 2015, Commissioners Court came on to be heard and reviewed the accompanying notice of McDONALD MUNICIPAL & INDUSTRIAL A DIVISION OF CF McDONALD ELECTRIC, INC.

Job Location PECAN GROVE DRAINAGE TRACT

Dated 01/22/15 BOND NO. TX 818155, Permit No. 84757 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 3<sup>rd</sup> 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  
301 JACKSON STREET  
RICHMOND, Texas 77469  
281-633-7500

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

By

[Signature]  
County Engineer

Presented to Commissioners Court and approved.

Recorded in Volume 2-03-15  
Minutes of Commissioners Court.

By

N/A

Drainage District Engineer/Manager

Clerk of Commissioners Court

By [Signature]  
Deputy

# COUNTY OF FORT BEND

## Engineering Department

301 JACKSON STREET  
RICHMOND, Texas 77469

Johnny Ortega  
Permit Administrator

1124 Blume Road  
Phone: (281) 633-7500

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

PERMIT NO. 084757

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. TX 818155

Amount \$18,000.00

Cashier's Check.

No. \_\_\_\_\_

Amount \_\_\_\_\_

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

\_\_\_\_\_  
Precinct Engineer Acknowledgment

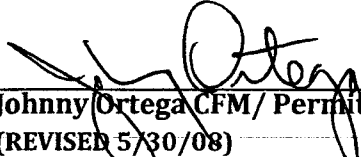
\_\_\_\_\_  
Date

\_\_\_\_\_  
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)

01/16/2015  
Date

**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. 84757  
PERMIT No. 84757 PCT. No. 3  
BOND No. TX 818155

Formal notice is hereby given that \_\_\_\_\_  
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

**Along Roads and/or Drainage Ditches**

Road or Ditch Name	Distance & Direction From Nearest Intersection	To	Distance
PGMUD Drainage Tract	240ft Mayweather Ln	Pecan Grove Water Plant #3	710 ft

**General Description**

Installation of Aprox. 710 lf of Electrical Duct Bank along Pecan Grove Drainage Tract

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  
301 Jackson Richmond, TX 77469.

Violation of Requirements shall constitute grounds for job shut down.

COMPANY NAME: McDonald Municipal & Industrial  
a Division of C.F. McDonald Electric, Inc. on behalf on Pecan Grove M.U.D.

AGENT AND/OR OWNER

NAME & TITLE: Jovanni Castilla, Project Manager  
(Signature)

DATE: 1/13/2015

ADDRESS: 5044 Timber Creek dr.

Houston TX 77017  
City State Zip

TELEPHONE No. 713-853-5633

(Accessible 24hrs/day, 7 days/week)

As of 9/1/2014, we will no longer mail out permits. Instead, we will email them.

Please complete:

Name:  
Jovanni Castilla

Email address:  
gio@mcdonaldinc.com

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

AUTHORIZED

BOND NO TX 818155

THE STATE OF TEXAS §

KNOW ALL MEN BY THESE PRESENTS:

COUNTY OF FORT BEND §

THAT WE, McDonald Municipal & Industrial, a Division of C.F. McDonald Electric, Inc. whose address is 5044 Timber Creek Dr., Houston, Texas, hereinafter called the Principal, and Merchants Bonding Company (Mutual), a Corporation existing under and by virtue of the laws of the State of Iowa and authorized to do an indemnifying business in the State of Texas, and whose principal office is located at 2100 Fleur Drive, Des Moines, Iowa 50321-1158, whose officer residing in the State of Texas, authorized to accept service in all suits and actions brought within said State is Audrey Williams and whose address is 9500 Arboretum Boulevard, Suite 100, Austin, TX 78759, 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 Eighteen Thousand Dollars (\$18,000.00) current, lawful money of the United States of America, to be paid to said Robert E. Hebert, County Judge of Fort Bend County, Texas, or his successors in office, to which payment well and truly to be made and done, we, the undersigned, bind ourselves and each of us, our heirs, executors, administrators, successors, assigns, and legal representatives, jointly and severally, by these presents.

THE CONDITION OF THIS BOND IS SUCH THAT, WHEREAS, the above bounden principal contemplates laying, constructing, maintaining and/or repairing one or more cables, conduits, and/or pole lines in, under, across and/or along roads, streets and highways 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 12th day of January, 2015.

McDonald Municipal & Industrial, a Division of C.F.  
McDonald Electric, Inc.

PRINCIPAL

BY Wayne Berkenmeier

Merchants Bonding Company (Mutual)

SURETY

BY SuEllen Landriault Attorney-in-Fact

CCM 2-03-15 # 103  
Fort Bend County Clerk  
Return Admin Serv Coord

**MERCHANTS**  
**BONDING COMPANY**  
**POWER OF ATTORNEY**

Bond #: TX 818155

Know All Persons By These Presents, that MERCHANTS BONDING COMPANY (MUTUAL) and MERCHANTS NATIONAL BONDING, INC., both being corporations duly organized under the laws of the State of Iowa (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint, individually,

**SuEllen Landriault**

of **Houston** and State of **TX** their true and lawful Attorney-in-Fact, with full power and authority hereby conferred in their name, place and stead, to sign, execute, acknowledge and deliver in their behalf as surety any and all bonds, undertakings, recognizances or other written obligations in the nature thereof, subject to the limitation that any such instrument shall not exceed the amount of:

**TWELVE MILLION (\$12,000,000.00) DOLLARS**

and to bind the Companies thereby as fully and to the same extent as if such bond or undertaking was signed by the duly authorized officers of the Companies, and all the acts of said Attorney-in-Fact, pursuant to the authority herein given, are hereby ratified and confirmed.

This Power-of-Attorney is made and executed pursuant to and by authority of the following By-Laws adopted by the Board of Directors of the Merchants Bonding Company (Mutual) on April 23, 2011 and adopted by the Board of Directors of Merchants National Bonding, Inc., on October 24, 2011.

"The President, Secretary, Treasurer, or any Assistant Treasurer or any Assistant Secretary or any Vice President shall have power and authority to appoint Attorneys-in-Fact, and to authorize them to execute on behalf of the Company, and attach the seal of the Company thereto, bonds and undertakings, recognizances, contracts of indemnity and other writings obligatory in the nature thereof.

The signature of any authorized officer and the seal of the Company may be affixed by facsimile or electronic transmission to any Power of Attorney or Certification thereof authorizing the execution and delivery of any bond, undertaking, recognizance, or other suretyship obligations of the Company, and such signature and seal when so used shall have the same force and effect as though manually fixed."

In Witness Whereof, the Companies have caused this instrument to be signed and sealed this 13th day of August, 2014.



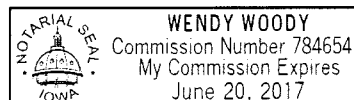
MERCHANTS BONDING COMPANY (MUTUAL)  
MERCHANTS NATIONAL BONDING, INC.

By *Larry Taylor*  
President

STATE OF IOWA  
COUNTY OF POLK ss.

On this 13th day of August, 2014, before me appeared Larry Taylor, to me personally known, who being by me duly sworn did say that he is President of the MERCHANTS BONDING COMPANY (MUTUAL) and MERCHANTS NATIONAL BONDING, INC.; and that the seals affixed to the foregoing instrument is the Corporate Seals of the Companies; and that the said instrument was signed and sealed in behalf of the Companies by authority of their respective Boards of Directors.

In Testimony Whereof, I have hereunto set my hand and affixed my Official Seal at the City of Des Moines, Iowa, the day and year first above written.



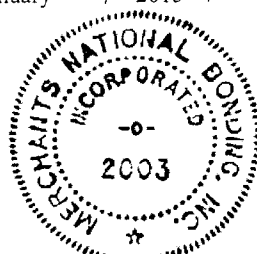
*Wendy Woody*

Notary Public, Polk County, Iowa

STATE OF IOWA  
COUNTY OF POLK ss.

I, William Warner, Jr., Secretary of the MERCHANTS BONDING COMPANY (MUTUAL) and MERCHANTS NATIONAL BONDING, INC., do hereby certify that the above and foregoing is a true and correct copy of the POWER-OF-ATTORNEY executed by said Companies, which is still in full force and effect and has not been amended or revoked.

In Witness Whereof, I have hereunto set my hand and affixed the seal of the Companies on this 12th day of January, 2015.



*William Warner Jr.*  
Secretary



MERCHANTS BONDING COMPANY (MUTUAL) • MERCHANTS NATIONAL BONDING, INC.  
2100 FLEUR DRIVE • DES MOINES, IOWA 50321-1158 • (800) 678-8171 • (515) 243-3854 FAX

**Please send all notices of claim on this bond to:**

Merchants Bonding Company (Mutual) /  
Merchants National Bonding, Inc.

2100 Fleur Drive  
Des Moines, Iowa 50321-1158

(515) 243-8171  
(800) 678-8171



MERCHANTS BONDING COMPANY (MUTUAL) • MERCHANTS NATIONAL BONDING, INC.  
2100 FLEUR DRIVE • DES MOINES, IOWA 50321-1158 • (800) 678-8171 • (515) 243-3854 FAX

## IMPORTANT NOTICE

To obtain information or make a complaint:

You may contact your insurance agent at the telephone number provided by your insurance agent.

You may call Merchants Bonding Company (Mutual) toll-free telephone number for information or to make a complaint at:

**1-800-678-8171**

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 at:

P. O. Box 149104

Austin, TX 78714-9104

Fax: (512) 475-1771

Web: <http://www.tdi.state.tx.us>

E-mail: [ConsumerProtection@tdi.texas.gov](mailto:ConsumerProtection@tdi.texas.gov)

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

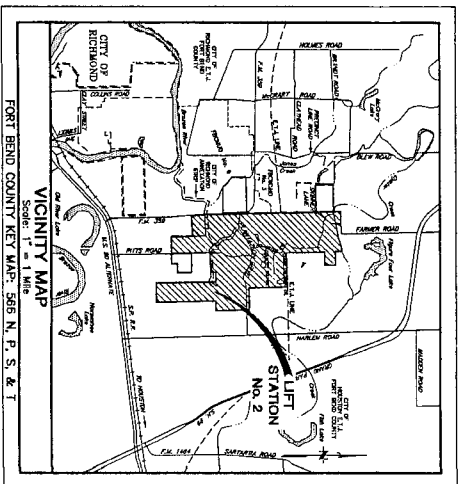
**ATTACH THIS NOTICE TO YOUR POLICY:** This notice is for information only and does not become a part or condition of the attached document.

CONSTRUCTION  
OF  
LIFT STATION No. 2  
IMPROVEMENTS  
FOR

PECAN GROVE MUNICIPAL UTILITY DISTRICT  
FORT BEND COUNTY, TEXAS

INDEX OF DRAWINGS

SHEET No.	TITLE
1.	COVER SHEET & INDEX
2.	GENERAL NOTES
3.	PAID LEGEND - SHEET 1 OF 2
4.	PAID LEGEND - SHEET 2 OF 2
5.	LIFT STATION PAID
6.	OVERALL SITE LAYOUT
7.	LIFT STATION PLAN & PROFILE
8.	MISCELLANEOUS DETAILS
9.	ELECTRICAL ONE-LINE DIAGRAM
10.	ELECTRICAL CONTROL DIAGRAM
11.	ELECTRICAL MISCELLANEOUS DETAILS
12.	



FORT BEND COUNTY ENGINEER  
ENGINEER: Richard W. Stouls, P.E.  
DATE: 11/20/14

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

APPROVED: [Signature]  
CONSTRUCTION COORDINATOR

DATE: 11/20/14

CITY OF RICHMOND, TEXAS

[Signature] 11/21/14  
Date

[Signature] 11/31/14  
Date



OCTOBER 2014  
JC JOB No. 00034-0381-00  
**JC JONES & CARTER, INC.**  
ENGINEERS • PLANNERS • SURVEYORS  
Texas Board of Professional Engineers Registration No. F-439  
6335 Gulfview Dr., Suite 100 Houston, Texas 77061 (713) 777-5537



1. The approximate location of existing utilities are given for reference only. Before commencing the work on this contract, the Contractor shall verify by field investigation the actual locations of all utility facilities within and adjacent to the limits of the work that may be affected by the work. The Contractor shall be responsible for the construction demands on which the Contractor is to perform the work. The Contractor shall be responsible for the location of all existing utilities which are shown on the construction drawings, or which the Contractor has been given notice or has knowledge of, and be the sole responsibility of the Contractor. The cost of remedial work, removal of portions of the work or extensive design changes occasioned by the failure of the Contractor to verify the location of existing utilities as described above shall be borne by the Contractor.

- MANHOLE / INLET PROTECTION NOTES:**

1. All piping shall be installed from pipe (D.I.P.) unless otherwise noted on the drawings or in the notes. Piping shall include all underground piping, except D.I.P., and fittings on aboveground pipe and on underground pipes, except D.I.P. (C.I.P.), and fittings on concrete structures and on all fittings for below ground pipe underneath concrete structures and on the first below grade fittings from an above ground piping run. All other underground D.I.P. and flow pressure type push-on (P.O.) joints and fittings unless otherwise shown. See paragraph on "underground D.I.P." and also all aboveground D.I.P. in accordance with Section 09027 of the specifications.
2. All proposed lines shall be plotted, wrapped, or manufactured in the color as indicated on the drawings and in accordance with Specification Section 09027-protective coatings, direction of travel and process labels. All non-metallic underground pipe shall be installed with tracer tape.
3. Unless specifically otherwise shown on the construction drawings, all through-wall pipe shall be gasketed in block-outs with waterproof non-sink gaskets. All block-outs for through-wall piping shall be keyed, unless otherwise noted.
4. Contractor shall maintain a six-foot (6') working clearance between all flanged pipe connections and any obstruction (such as structural walls, doors, walkways or equipment).
5. All piping lengths shown on contract-as plan view layout are for general reference only and must be verified by the contractor.
6. Contractor to field verify fitting requirements for all tie-ins to existing piping.
7. Location of all existing piping were determined from available existing information. The Contractor should conduct a visual inspection of all existing conditions, especially locations and features of existing piping upon modification and prior to beginning construction. Extra work required to meet existing conditions shall be at no cost to the Owner.
8. Provide protective coatings and labels for the equipment and piping in accordance with Sections 09027 and 15100 of the specifications. See Specification Section 09027 and the plans for a list of specific items which are to receive protective coating.

1. Provide aluminum warning signs which read "Danger, High Voltage," and "No Trespassing," install these signs on the existing entrance gate. Minimum size is 8' x 10' and all signs shall be in English and Spanish. Provide an aluminum sign approximately 12' x 24" on the front gate which reads "Fast Back County MUD- No. 142 Bypass Felt Lift Station, Station Identification address."
2. Provide Identification numbers for each pump, which corresponds to the identification numbers in the motor control center and control panels. These numbers shall be located on the front of the pump and on the concrete top slab of the pump. The identification number adjacent to the top of the pump and on the concrete top slab of the pump shall be polychromatic paint applied with a stencil. Number height shall be at least four-inches (4").

1. Prior to start of construction, contractor shall install erosion and sedimentation controls at location shown on plans.
2. Contractor shall inspect all existing and sedimentation control systems specified herein, at a minimum of once every calendar day.
3. Contractor shall maintain, repair, and/or replace damaged erosion and sedimentation control system throughout the duration of the contract. (No separate pay)
4. Contractor shall provide protected storage areas for chemicals, paints, solvents, fertilizers, and other potentially toxic materials.
5. Contractor shall locate fuel/material storage areas away from storm water conveyance systems. Contractor shall use spill catching, key boxes, or berms around fuel storage areas. (No separate pay)
6. Contractor shall dispose owner immediately, verbally, and in writing, of any fuel or toxic material spilled onto the project/construction area and the action taken to remedy the problem.
7. Contractor is responsible for diagnosis of his fuels, materials, and contaminated excursions in a legally approved manner. (No separate pay)
8. Contractor is responsible for complying with all applicable environmental laws.
9. Contractor is responsible for providing adequately maintained sanitary facilities.
10. At completion of the contract, owner and/or owner's representative with the contractor shall conduct an erosion and sedimentation control system before relieving contractor of his maintenance responsibilities.
11. If erosion and sedimentation control system is existing from prior contracts, owner, and/or owner's representative with the contractor shall examine the existing erosion and sedimentation control system for damage prior to contractor starting construction of the contract. Any damage noted at this time shall be repaired at owner's expense.
12. Contractor shall be responsible for street cleaning, on a daily basis, all mud and dirt deposited on the existing pavement, due to his construction activity.
13. If paving contractor removes or punctures thruway snow goats to establish dropoffs, fuel must be surrounded by filter fabric fence or stream in street on Street B.

- Contractor is responsible for providing adequate trench safety and shoring systems in accordance with O.S.H.A. regulations.
- Trench safety boxes shall not be placed in the pipe zone.
- Contractor shall comply with O.S.H.A. regulations and Texas state law concerning trench safety systems.

1. The Contractor shall perform all start-up and shut-down operations of all proposed and existing bypass operations, including but not limited to, the start-up and shut-down of boilers and equipment. The Operator shall perform all start-up and shut-down operations of all existing boilers and equipment.
2. District Operator shall plug influent sanitary sewer and provide bypass system for 30 consecutive days. Cost for additional bypass operations will be borne by Contractor.
3. Contractor shall notify Operator and Engineer at least 14 days prior to requiring bypass system to be operational to allow Operator adequate time to coordinate necessary equipment. Contractor shall notify Operator and Engineer 72 hours prior to requiring bypass system to be operational to allow Operator adequate time to haul equipment.
4. The Operator shall also agree necessary to maintain continuous service to all Pacson Crown Multiphase Utility District wastewater customers during construction.
5. Upon initial shut down of the Lift Station(s), the Operator shall be responsible for removal of block liquid, grit, sand and sediment from the discharge line of lift station(s). The Contractor shall be responsible for removal of the discharge line of lift station(s) for material and removal of sediment(s) shall be the responsibility of the Contractor at no additional cost to the Owner.

**CenterPoint Energy (Electrical Facilities)**

- Any activity where person or things may come within six (6) feet of live overhead high voltage lines, and
- Operating a crane, derrick, power shovel, drilling rig, pile driver, hoisting equipment, or similar apparatus within 10 feet of the overhead voltage lines.

**Caution: Underground Gas Facilities**  
Locations of CenterPoint Energy

Locations of certain units (energy main lines) are shown in an approximate location only. Service Pipeline, LLC, where applicable) are shown in an approximate location only. Service lines are usually not shown. Our signature on these plans only indicates that our field office has checked the information and that it is correct to the best of our knowledge.

- When CenterPoint Energy pipe line markings are not visible, call (713) 945-8037 (7:00 a.m. to 4:30 p.m.) for status of line location request before excavation.

- When excavating within eighteen inches (18") of the indicated location of CenterPoint Energy Facilities, all excavation must be accomplished using non-mechanized excavation procedures.

- When CentriPoint Energy facilities are exposed, sufficient support must be provided to the facilities to prevent excessive stress on the piping.
- For compressibles (including gas), in 45 cfm (17) 659 - 555, or (113) 207-4120, The Contractor is fully responsible for any damage caused by his failure to exactly locate and preserve these underground facilities.

AT&T Texas/SWBT Facilities

1. The locations of ATE/Texas/SWMT facilities are shown in an approximate way only

The Contractor shall determine the exact location before commencing work. The Contractor shall be fully responsible for any and all damages which might be occasioned by failure to exactly locate and preserve these underground utilities.

2. The Contractor shall call 1-800-344-8377 a minimum of 48 hours prior to construction to have underground lines field located.

3. When excavating within eighteen inches (18") of the indicated location of AT&T Texas/SMRT facilities, all excavations must be accomplished using non-mechanized excavation procedures. When boring the Contractor shall expose the AT&T Texas/SMRT facilities.

4. When AT&T Texas/SWBT facilities are exposed, the Contractor will provide support to prevent damage to the conduit ducts or cables. When excavating near telephone poles,

5. The presence or absence of AT&T Texas/SWB's underground conduit facilities or buried

cables facilities shown on these plans does not mean that there are no direct buried cables or other cables in conduit in the area.

6. Please contact the AT&T Texas Damage Prevention Manager Mr. Roosevelt Lee Jr. at (713)567-4552 or email him at [r17259@att.com](mailto:r17259@att.com) if there are questions about boring or excavating near our AT&T Texas/SWBT facilities.

No approval to use, cross, or occupy Centurion  
 or easement property is given. If you  
 need to use Centurion property, please  
 contact our surveying and right-of-way  
 Division at (713) 207-6635 or (713) 207-5789.

**NOTICE:**  
TO ADVANCE FOR LINES TO BE SAVED OFF BE WORKED, CALL ENVIRONMENTAL AGENCY AT 713-387-  
4444.  
Any party which is not registered by Texas Law to sell and all of bonded 48 hours before you are  
on that information has not been worked. The verification does not allow your addition to and  
VERIFICATION OF PRIVATE UTILITY LINES

Shmoove  
Date: 12-10-14

**PRIVATE UTILITY LINES SHOWN**  
AT LEAST 48 HOURS BEFORE EXCAVATING IN STREET R.O.W. OR  
EASEMENTS CALL THE LONE STAR NOTIFICATION 713-223-4555

**PRIVATE UTILITY LINES SHOWN**  
AT LEAST 48 HOURS BEFORE EXCAVATING IN STREET R.O.W. OR  
EASEMENTS CALL THE LONE STAR NOTIFICATION 713-223-4555

Date: \_\_\_\_\_

CenterPoint Energy/Gas Facilities

Date: \_\_\_\_\_

CenterPoint Energy/Gas Facilities

PECAN GROVE M.U.D.

PECAN GROVE M.U.D.

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FILE NO. \_\_\_\_\_

*Robert J. [Signature]*

FILE NO. \_\_\_\_\_

*Robert J. [Signature]*

10/28/12
























































































BETHANY A. MILLER  
110123


2 OF 12

100




MISCELLANEOUS  
SYMBOLS:


	PLUG VALVE (NORMALLY OPEN)		480 VAC ELECTRICAL SUPPLY		PROPELLER TYPE FLOW METER		DISCHARGE AIR FILTER		MOTOR		CORPORATION STOP
	PLUG VALVE (NORMALLY CLOSED)		240 VAC ELECTRICAL SUPPLY		MAGNETIC TYPE FLOW METER		DOUBLE CHECK BACKFLOW PREVENTER				
	BALL VALVE (NORMALLY OPEN)		120 VAC ELECTRICAL SUPPLY		TURBINE FLOW METER		FOOT VALVE				
	BALL VALVE (NORMALLY CLOSED)		CURRENT TRANSFORMER		DRAIN INLET (SCREENED)		LOCAL DISCONNECT				
	BUTTERFLY VALVE		ELECTRICAL OUTLET		TUBING ADAPTER		WELL SCREEN				
	CHECK VALVE		ELECTRICAL PLUG		FLEXIBLE CONNECTION		PERFORATED PLATE				
	GATE CHECK VALVE		ULTRASONIC LEVEL TRANSDUCER		EXPANSION COUPLING						
	SILENT CHECK VALVE		SUBMERISABLE PRESSURE TRANSDUCER		QUICK CONNECT						
	SWING CHECK VALVE		FLOAT SWITCH		THREADED CAP						
	BALL CHECK VALVE		PVC COATED WEIGHT		BLIND FLANGE						
	GATE VALVE (NORMALLY OPEN)		RANGED CONNECTION		UNION						
	GATE VALVE (NORMALLY CLOSED)		SLUICE GATE (NORMALLY OPEN)		SLUDGE DRAW-OFF						
	GLOBE VALVE (NORMALLY OPEN)		SLUICE GATE (NORMALLY CLOSED)		AIR LIFT PUMP						
	GLOBE VALVE (NORMALLY CLOSED)		PILLOT GATE (NORMALLY CLOSED)		MALE CAM & GROOVE QUICK COUPLING						
	SAMPLE COCK (NORMALLY CLOSED)		SINGLE DROP COARSE AIR DIFFUSER (PROFILE)		ANNULAR DIAPHRAGM						
	NEEDLE VALVE (NORMALLY OPEN)		SINGLE DROP FINE AIR DIFFUSERS		PULSATION DAMPER						
	NEEDLE VALVE (NORMALLY CLOSED)		PULSATION DAMPER		AIR INTAKE FILTER						
	ANGLE VALVE (NORMALLY OPEN)		SINGLE DROP COARSE AIR DIFFUSER (PROFILE)		WYE STRAINER						
	ANGLE VALVE (NORMALLY CLOSED)		SINGLE DROP FINE AIR DIFFUSERS		MIXER						
	HORIZ PRESSURE RELIEF VALVE		SUBMERGED COARSE WIDE BAND AIR DIFFUSERS (PLAN)		STATIC MIXER						
	ANGLE PRESSURE RELIEF VALVE		EMERGENCY EYE WASH & SHOWER		MUD VALVE						
	SOLONOID VALVE		BASKET STRAINER		TELESCOPIC VALVE						
	BACKPRESSURE REGULATOR, SET-CONTAINED		DUPLEX BASKET STRAINER								
	BACKPRESSURE REGULATOR, SET-CONTAINED		RUPTURE DISK (PRESSURE RELIEF)								
	BACKPRESSURE REGULATOR W/EXTERNAL PRESSURE TAP		RUPTURE DISK (VACUUM RELIEF)								
	PRESSURE REDUCING REGULATOR W/INTEGRAL OUTLET PRESSURE RELIEF VALVE		BULK STORAGE TANK								
	FLOW CONTROL VALVE		DOUBLE WAIERED BULK STORAGE TANK								
	PRESSURE REDUCING PRESSURE SUSTAINING VALVE										
	VACUUM REGULATOR										
	PUMP CONTROL/ BACKPRESSURE VALVE										




CORPORATION STOP




FOOT VALVE




LOCAL DISCONNECT



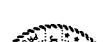
WELL SCREEN  
STRAINER



PERFORATED PLATE

APPROVED: 

For Execution



NOTE:

For Electrical Purposes Only



APPROVED: *[Signature]*  
DEVELOPMENT COORDINATOR

DATE: 11/20/14

NO. DATE	13-4	APPROVED FOR CONSTRUCTION
SCALE	NO SCALE	DATE
DATE	OCTOBER 2014	DWG. BY
DWG. NO.	0001A-CRBL-00	DATE
SHEET NO.	4	OF 12

**JONES & CARTER, INC.**  
Texas Board of Professional Engineers Registration No. 5,400  
6801 Green Hill, Suite 100, Houston, Texas 77030 (713) 777-8200

**PE&ID LEGEND**  
SHEET 2 OF 2

PECAN GROVE MULD  
FORT BEND COUNTY, TEXAS

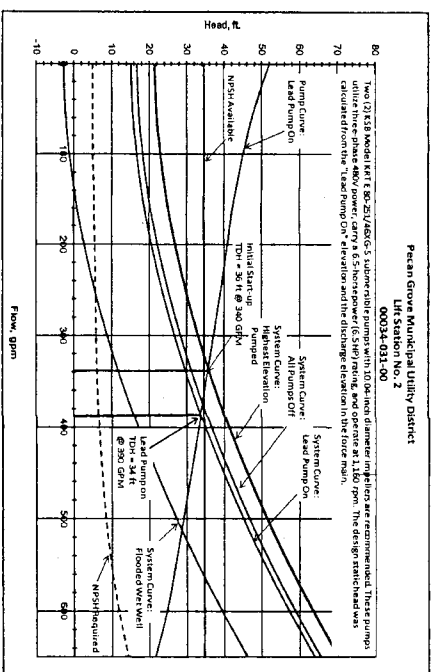
LIFT STATION NO. 2  
IMPROVEMENTS





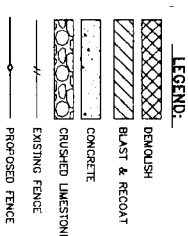
RAISING LEVEL CYCLE		
ELEVATION	ACTION	PUMPS/3 IN OPERATION
55.75	PUMPS OFF LEVEL - NO ACTION	NONE
57.35	LEAD PUMP TURNS ON	LEAD PUMP ON
58.95	LUG PUMPS TURN ON & HIGH LEVEL ALARM	ALL PUMPS ON
FALLING LEVEL CYCLE		
ELEVATION	ACTION	PUMPS/3 IN OPERATION
57.35	LUG PUMP TURNS OFF	LEAD PUMP ON
55.75	ALL PUMPS TURN OFF	NONE

PUMP DATA		! PUMP OPERATING AT LEAD PUMP ON (C=120)
FLOW (GPM)	34	
IDH (FT)	60	
MIN. OVERALL EFF. (%)	13.5	
STATIC HEAD (FT)	6.50	
MOTOR RATED HP (MAX)	1.180	
RPM		



- [illegible]

According to Map No. 48157000251, of the Federal Emergency Management Agency's Flood Insurance Rate Map for Fort Bend County, Texas with an effective date of April 2, 2014, the subject tract is situated within shaded "X-1" defined on Areas of 0.25 Annual Chance - Flood, Areas of 0.1% Annual Chance Flood with one-day depth of less than 1-foot or with drainage areas less than 1 square mile, and areas protected by levees from 0.1% Annual Chance Flood.



I, Sheldene do hereby certify that the above is a true and correct copy of the minutes of the Board of Directors of the City of Los Angeles for the month of March, 1910.  
 My Commission Expires March 1, 1911  
 Notary Public for the State of California  
 Date 12.10.14  
 My Comm. Expires March 1, 1911  
 Notary Public for the State of California

EXAMINER'S USE: THIS SPACE FOR NOTIFICATION 715-253-6907  
 TO REQUEST THE CLERK TO BE KEPT ON FILE  
 THE CLERK'S OFFICE IS: 15-253-6907

NOTIFICATION OF PRIVATE UTILITY LINES  
 The undersigned hereby certifies that the above is a true and correct copy of the minutes of the Board of Directors of the City of Los Angeles for the month of March, 1910.  
 My Commission Expires March 1, 1911  
 Notary Public for the State of California

PRIVATE UTILITY LINES CHAUN

Contract Energy Assets Facility  
 (Contractors for the facility to be located within various other units)  
 With reference to page 107  
 Date: 10-2-84  
 Signature: [Signature]  
 Stamp: [Stamp]  
 Date: [Blank]  
 Date: [Blank]

NO.	DATE	REVISIONS	APP.
1	12/14	Approved for Construction	Don
		Western Construction Co. Inc. - 444-61	Don

LIFT STATION No. 2  
IMPROVEMENTS  
LIFT STATION  
PLAN & PROFILE

**THE**  
**ENGINEERS' PLANNERS & SURVEYORS**  
**INSTITUTE**

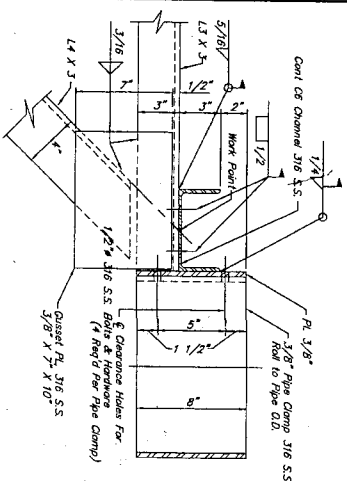
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2717-2718

APPROVED: [Signature]  
DEVELOPMENT COORDINATOR

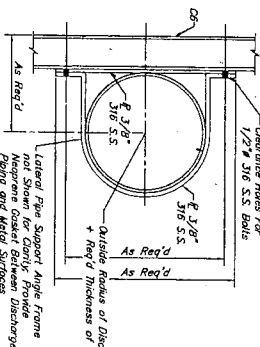
DATE: 11/20/14



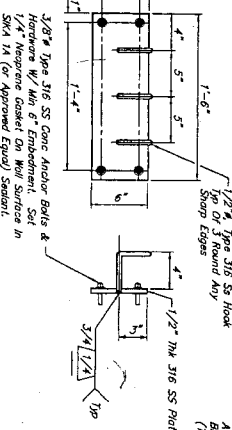
10/24/14  
SHEET NO.  
7  
OF 12



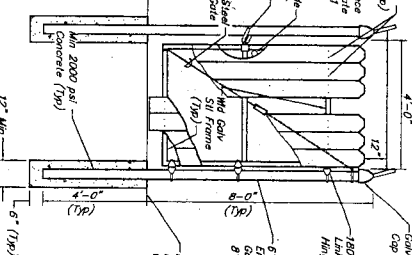
FRAME CONNECTION DETAIL  
NOT TO SCALE



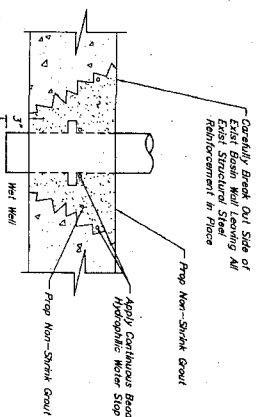
PIPE CLAMP DETAIL  
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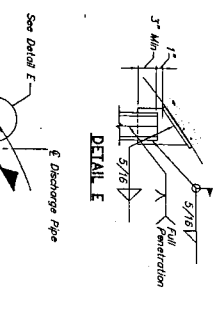
TYPICAL CABLE HOLDER ASSY  
NOT TO SCALE



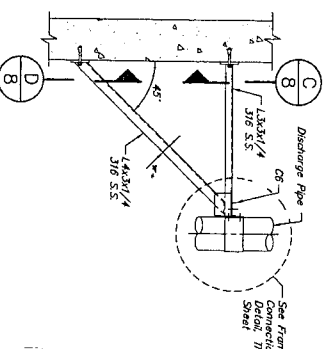
WOOD GATE DETAIL  
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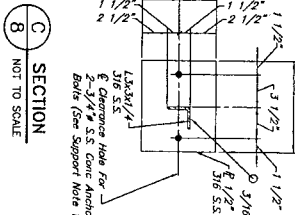
EXIST WET WELL PENETRATION DETAIL  
NOT TO SCALE



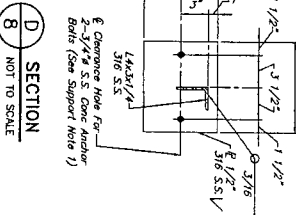
DETAIL E



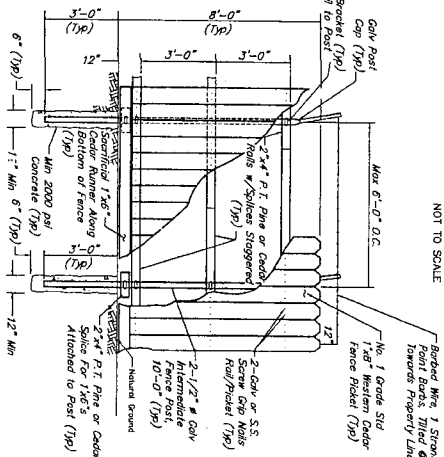
TYP LATERAL PIPE SUPPORT FRAME  
NOT TO SCALE



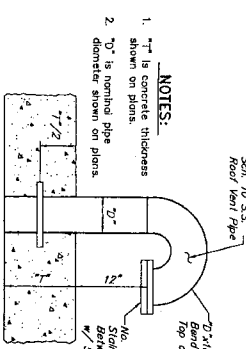
SECTION C  
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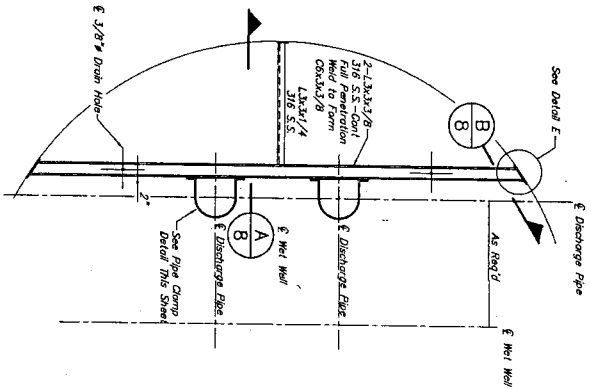
SECTION D  
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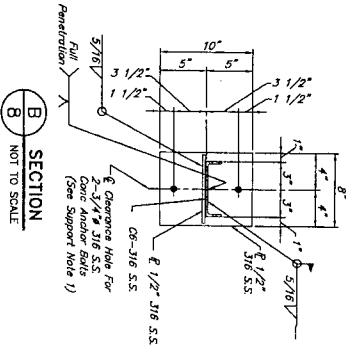
WOOD FENCE DETAIL  
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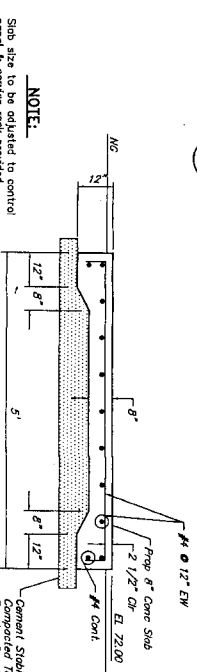
ROOF VENT DETAIL  
NOT TO SCALE



TYP DISCHARGE PIPING SUPPORT  
PLAN FOR 2 PUMPS  
NOT TO SCALE



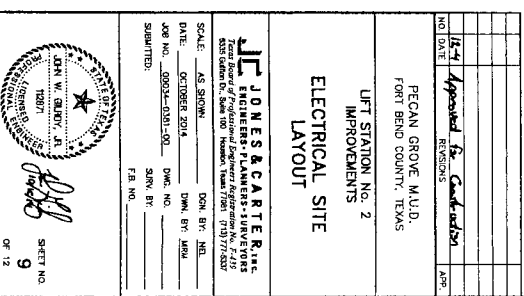
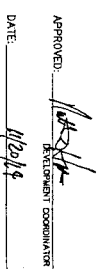
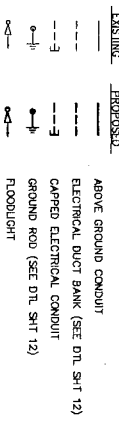
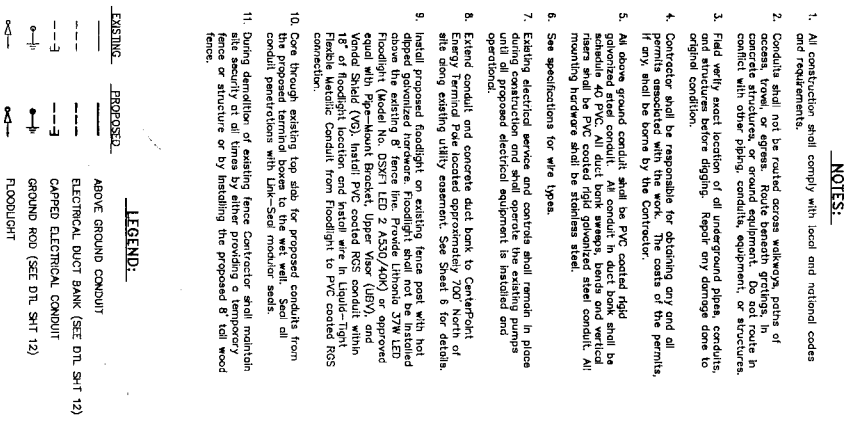
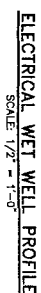
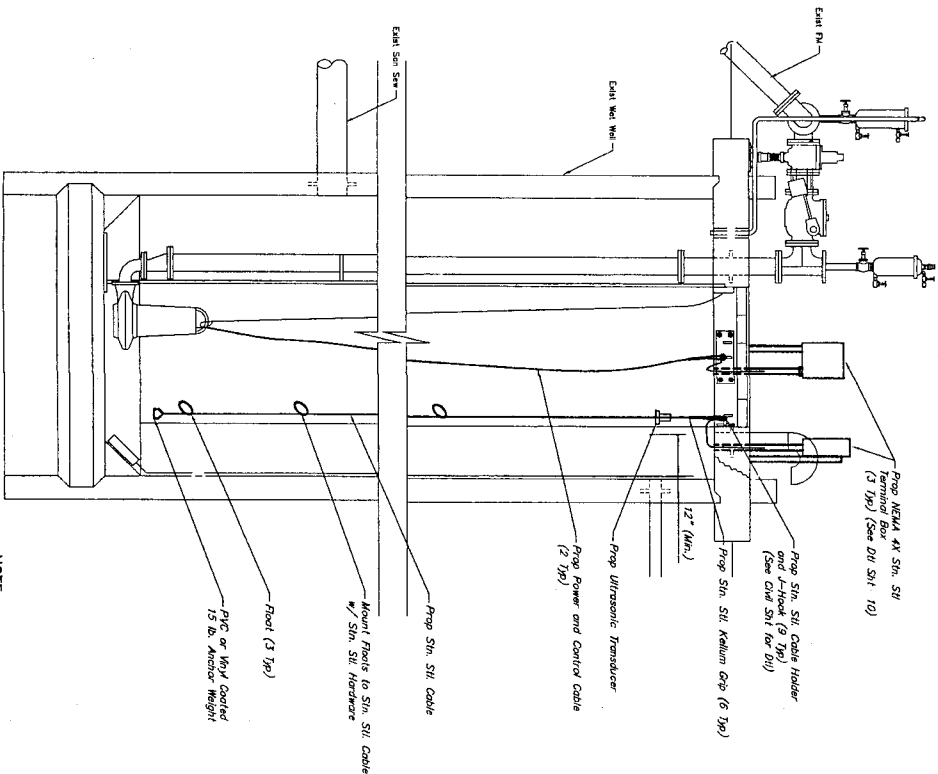
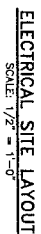
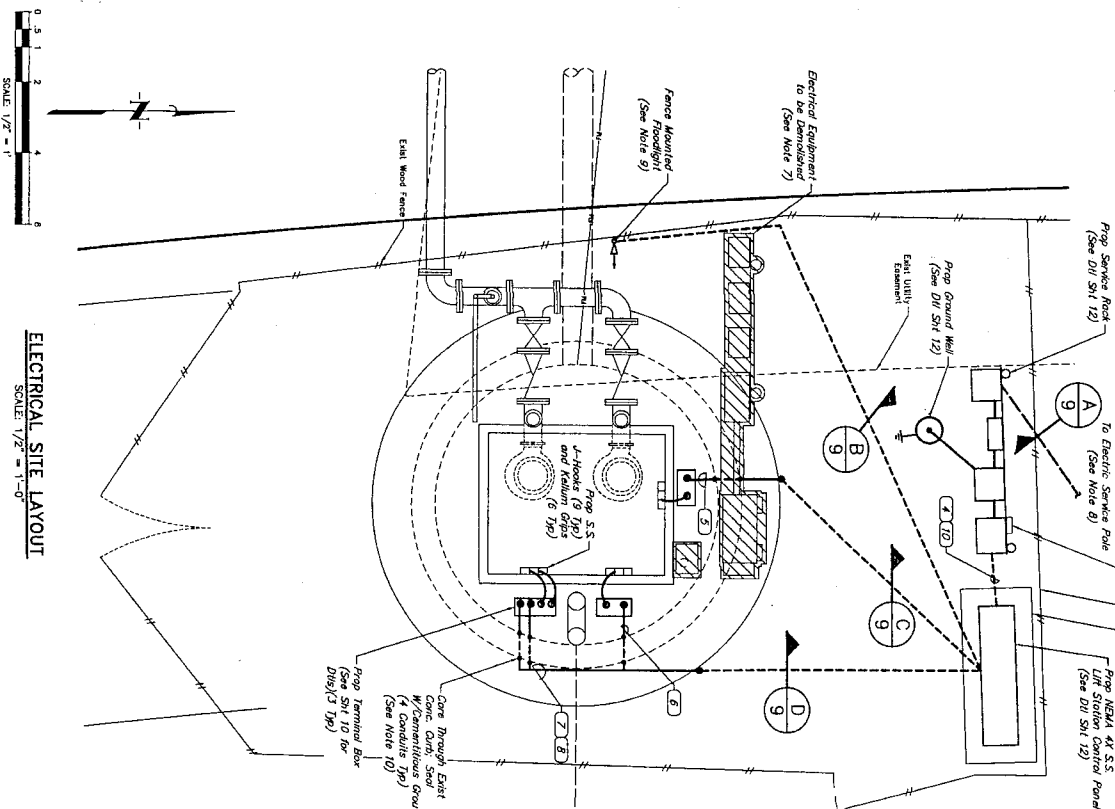
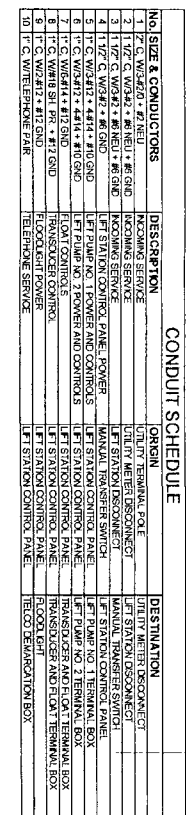
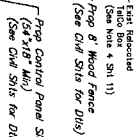
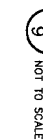
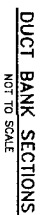
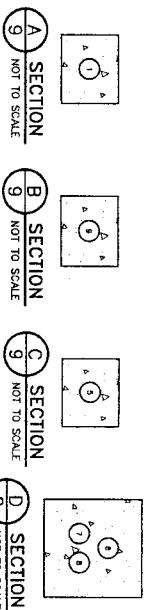
SECTION B  
NOT TO SCALE



CONTROL PANEL SLAB DETAIL  
NOT TO SCALE

APPROVED: *[Signature]*  
DATE: 11/20/14  
DEVELOPMENT CORPORATION

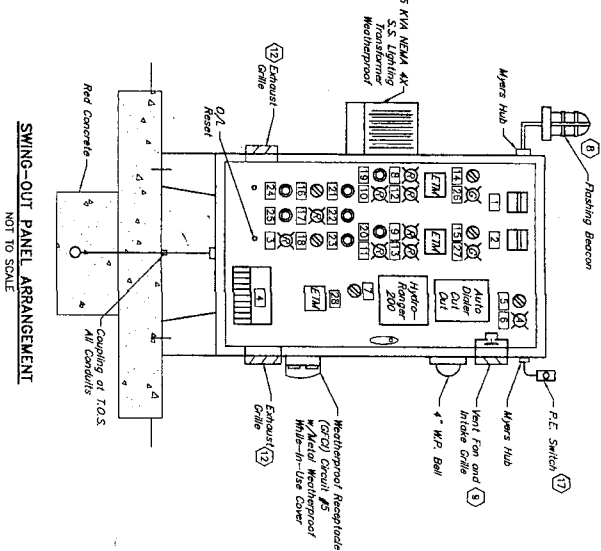
<b>J.C. JONES &amp; CARTER, INC.</b> 10000 N. Loop West, Suite 100, Houston, Texas 77057 (713) 777-6337 10000 N. Loop West, Suite 100, Houston, Texas 77057 (713) 777-6337	
SCALE: NO SCALE DATE: OCTOBER 2014 JOB NO.: 00024-001-00 SUBMITTAL:	DWN BY: J.C. DWN BY: J.C. DWN BY: J.C. DWN BY: J.C.
LIFT STATION NO. 2 IMPROVEMENTS MISCELLANEOUS DETAILS	
PECAN GROVE M.U.D. FORT BEND COUNTY, TEXAS	
SHEET NO. 8 OF 12	



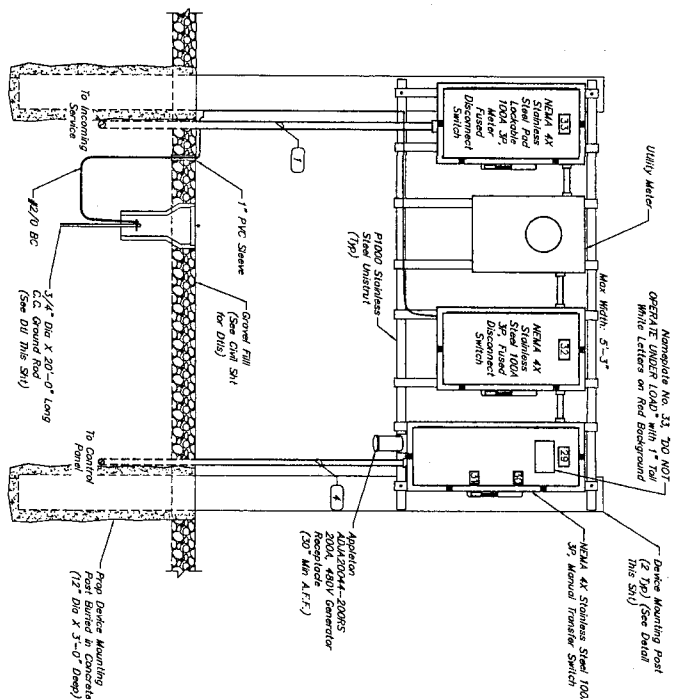




1	Approved for Construction	DATE
	REVISIONS	
	PECAN GROVE M.U.D.	
	FORT BEND COUNTY, TEXAS	
	LIFT STATION No. 2	
	IMPROVEMENTS	
	ELECTRICAL	
	CONTROL DIAGRAM	



**SWING-OUT PANEL ARRANGEMENT**  
NOT TO SCALE

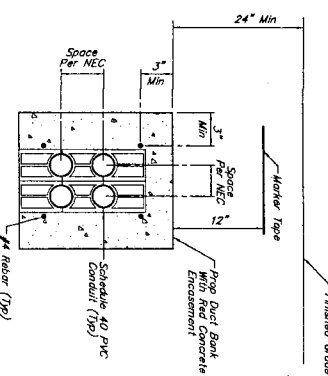


**ELECTRICAL SERVICE RACK**  
SCALE: 1" = 1'-0"

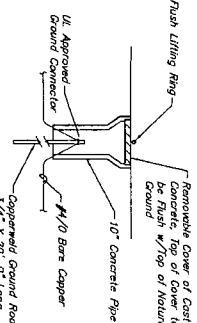
SPECIAL DEVICE SCHEDULE	
ITEM	DESCRIPTION
1	PHASE FAILURE RELAY - OVERPROTECTED ELECTRONICS PHE-227/480-ASE, 480 VOLT, 3 PHASE.
2	SAME SUPPRESSOR - SEE SPECIFICATIONS
3	SIGMA/MULTITON HOURS RANGER 200 LEVEL CONTROLLED BY LOGIC PROGRAM, GLASSMASC CONTROLLED BY LOGIC PROGRAM
4	THE DELTA RELAY WITH 5 60/30 SPINERS RATED AMPS AT 120 VOLT, CONTACTS W/AN COIL, PLUG IN BASE, AND SOCKET, 3 RANGES, 0.1 TO 100 SEC. AT 1000-134
5	CONTROL RELAY - WITH 4 SPST, SWITCHES RATED TO AMPS AT 120 VOLT, 120 VOLT COIL, PLUG IN BASE, AND SOCKET
6	INDICATING LIGHT - PLUG IN TEST - LED TYPE, RATED TO AMPS AT 120 VOLT, 120 VOLT, 60WZ COLOR AS INDICATED
7	EXHAUST TEST METER - CROUPT #3556/RES, 120 VOLT
8	FLUORESCENCE BEACON - 65WPL, 120 VOLT, LED, RED AGRICULTURE LENS, DIMMABLE #5058/6120A
9	VENT FAN - HOFFMAN CAT. #A-PA44EN, 21 WATT, 120 VOLT (WITH RAIN SHIELD GRILL)
10	NOT USED
11	SIGMA/MS MODEL 90 DIRECT ACTING FLOAT SWITCH WITH 40 PLOD OF CABLE
12	EXHAUST GRILL - HOFFMAN CAT. #A-W68 COVER WITH #A-T-106 FILTER KIT, (WITH RAIN SHIELD GRILL)
13	OVERPROTECTED ELECTRONICS CAT. #PS-120-4FN LOW CURRENT ISOLATION SWITCH, 5 AMPS, 120 VOLT CONTACTS, (INTRINSICALLY SAFE CIRCUIT TO FLOAT SWITCH)
14	FLATV LINDAS 1/4 INCH PLUMP PROTECTION MODULE WITH 1/4 INCH PLUMP PROTECTION, PLANK AND MIDRICE OVERVIEW, (INTRINSICALLY SAFE PROTECTION AS SHOWN)
15	SIGMA/MS MODEL IS-3 INTRINSIC SAFETY BARRIER
16	CABINET HEATER - HOFFMAN NO. DAH0014, 115 VAC, 100 WATT
17	PHOTOELECTRIC SWITCH - INTERMATE SERIES K100, 120 VOLT, MODEL #M721

## NOTES:

1. All above ground conduit shall be PVC coated rigid galvanized steel, unless otherwise noted. All mounting hardware to be stainless steel.
2. Equipment shown in drawings is in size. Verify dimension requirements of components and size accordingly. Metal equipment enclosure heater and cooling fan options to select manufacturer.
3. Contractor to ensure that, there are no unnecessary bands in ground conduit.
4. Conductor, in order to provide a properly installed and functioning system ground.
5. Install Unit Station Control Panel and Service Rack Equipment with a minimum of 4" clearance from the front face of the equipment to the closest object.



## TYPICAL DUCT BANK CONSTRUCTION



**GROUND WELL DETAIL**  
NOT TO SCALE

NO.	DATE	REVISIONS	APP.

PECAN GROVE M.U.D.  
FORT BEND COUNTY, TEXAS

LIFT STATION NO.  
IMPROVEMENTS

## ELECTRICAL

### MISCELLANEOUS DETAILS

**J.C. JONES & CARTER, INC.**  
ENGINEERS • PLANNERS • SURVEYORS  
1000 N. M-43  
6355 Sharon St., Suite 100 • Houston, Texas 77061 • (713) 777-6357

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SCALE: \_\_\_\_\_ NO SCALE \_\_\_\_\_ DGN. BY: \_\_\_\_\_  
DATE: \_\_\_\_\_ OCTOBER 2014 \_\_\_\_\_ DWN. BY: \_\_\_\_\_  
JOB NO.: \_\_\_\_\_ 00024-0301-02 \_\_\_\_\_ DWG. NO.: \_\_\_\_\_  
SUBMITTED: \_\_\_\_\_ S&P: \_\_\_\_\_  
F.B. NO.: \_\_\_\_\_



12  
Of 12

## SPECIAL DEVICE SCHEDULE

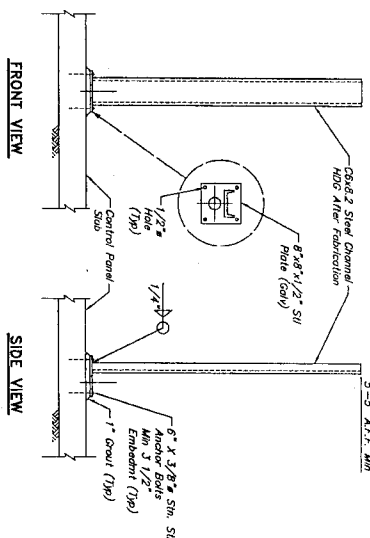
NAMEPLATE		SCHEDULE	
NO.	TITLE	NO.	TITLE
1	DISCONNECT LIFT PUMP No. 1	18	BEACON OFF-ON
2	DISCONNECT LIFT PUMP No. 2	19	No. 1 PUMP PROTECTION MODULE RESET
3	WET WELL HIGH LEVEL ALARM	20	No. 2 PUMP PROTECTION MODULE RESET
4	LIGHTING BREAKER (B)	21	ALARM RESET
5	PHASE FAILURE BYPASS	22	ALARM SILENCE
6	SEWERAGE POWER ON	23	ALARM TEST
7	FLOODLIGHT H-O-A	24	TEST FLOATS
8	LIFT PUMP No. 1 OVERTEMP	25	RESET FLOATS
9	LIFT PUMP No. 2 OVERTEMP	26	PUMP No. 1 RUN
10	LIFT PUMP No. 1 SEAL FAILURE	27	PUMP No. 2 RUN
11	LIFT PUMP No. 2 SEAL FAILURE	28	TWO PUMP RUN TIME
12	LIFT PUMP No. 1 OVERLOAD	29	MANUAL TRANSFER SWITCH
13	LIFT PUMP No. 2 OVERLOAD	30	NORMAL POWER
14	LIFT PUMP No. 1 H-O-A	31	EMERGENCY POWER
15	LIFT PUMP No. 2 H-O-A	32	MAIN DISCONNECT
16	BELL OFF-ON	33	WATER DISCONNECT
17	PUMPS ON FLOAT BACKUP		

**NOTE:**

Nonmetallic shall be constructed from laminated plastic material a minimum of 1/16" thick. Letters shall be gothic 3/16" high minimum, use two lines if description will cause length to exceed 2 millinum. Alarm nonmetallic shall be white letters on red background; others shall be white letters on black background. Affix nonmetallic to panel using self-tapping stainless steel screws. Submit details with shop drawings.

### DEVICE MOUNTING POST DETAIL

NOT TO SCALE



**FRONT VIEW**

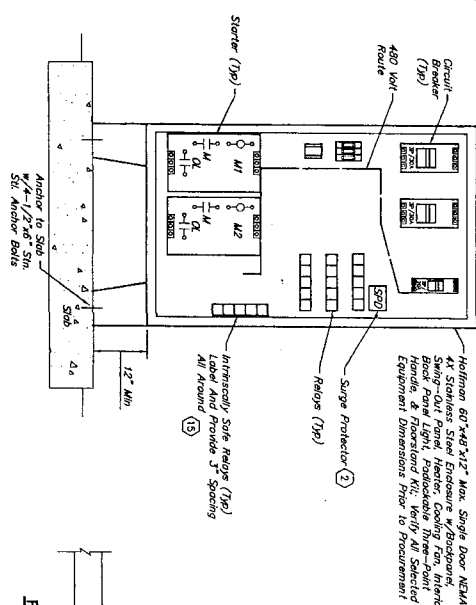
### SIDE VIEW

**BACK PANEL ARRANGEMENT**  
(ORIGINAL WITH GOOD PRESERVATION)

(SHOWN WITH BOOK RING)  
NOT TO SCALE

### CONTROL PANEL ELEVATION

NOT TO SCALE



Hoffman 60"x48"x12" Max. Single Door NEMA  
4X Stainless Steel Enclosure w/Backpanel,  
Swing-Out Panel Heater, Cooling Fan, Inter-  
lock Panel Light, Padlockable Three-Point  
Handle, & Floorstand Kit; Verify All Selected  
Equipment Dimensions Prior to Procurement