

REVIEW BY FORT BEND COUNTY COMMISSIONERS COURT

On this 24th day of May, 2016, Commissioners Court came on to be heard and reviewed the accompanying notice of Salvador Guerra / W.W. Payton Corporation Job Location 1505 1/2 Trails of Katy Lane, Katy, TX 77494 Date 3/29/2016 Bond No. 46BSBGJ8121, Permit No. 2016-6568 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 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, ADJUDGED AND DECREED that said notice of said above purpose is hereby acknowledged by the Commissioners Court of Fort Bend County, Texas, and that said notice be placed on record according to the regulation order thereof.

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: Charles O. [Signature]
 for County Engineer

By: N/A
 Drainage District Engineer/Manager

Presented to Commissioners Court and approved.
 Recorded in Volume 5-24-16 13E
 Minutes of Commissioners Court

Clerk of Commissioners Court
 By: [Signature]
 Deputy

County of Fort Bend

Engineering Department

301 Jackson Street
Richmond, Texas 77469

Johnny Ortega
Permit Administrator

Phone: (281) 633-7500

Permit Application Review Form For Cable, Conduit, and Pole Line Activity In Fort Bend County

Permit No. 2016-6568

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

- (1) Complete Application Form:
- a. Name of road, street, and/or drainage ditch affected.
- b. Vicinity map showing course of directions
- c. Plans and specifications
- (2) Bond:
- District Attorney, approval when applicable.
- Perpetual bond currently posted.
- No: _____
- Amount: _____
- Performance bond submitted.
- No: 46BSBGJ8121
- Amount: \$5,000.00
- 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.

 CFM

Johnny Ortega CFM/Permit Administrator



Date

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

AUTHORIZED

BOND NO 46BSBGJ8121

THE STATE OF TEXAS

§

KNOW ALL MEN BY THESE PRESENTS:

COUNTY OF FORT BEND

§

THAT WE, W. W. Payton Corporation whose address is P.O. Box 1056, Katy, TX 77492-1056 Texas, hereinafter called the Principal, And Hartford Casualty Insurance Company, a Corporation existing under and by virtue of the laws of the state of Indiana and authorized to do an indemnifying business in the state of Texas, and whose principal office is located at Hartford, Connecticut, whose officer residing in the State of Texas, authorized to accept service in all suits and actions brought whining said state is Michael Heidrick and Whose address is Hartford, 3000 Internet Blvd., #600, Frisco, TX 75034, 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 Five Thousand and No/100----- Dollars (\$ 5,000.00) current, lawful money of the United Stated of America, to be paid to said Robert E. Hebert, County Judge of Fort Bend County, Texas, or his successors in office, to which payment well and truly to be made and done, we, the undersigned, bind ourselves and each of us, our heirs, executors, administrators, successors, assigns, and legal representatives, jointly and severally, by these presents.

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

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

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

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

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

EXECUTED this 29th day of March, 2016.

W. W. Payton Corporation
PRINCIPAL

BY Wesley W. Payton, President

Hartford Casualty Insurance Company
SURETY

BY Sharon Cavanaugh Attorney-in-Fact

POWER OF ATTORNEY

Direct Inquiries/Claims to:

THE HARTFORD
 BOND, T-4
 One Hartford Plaza
 Hartford, Connecticut 06155

call: 888-266-3488 or fax: 860-757-5835

Agency Code: 61-610074 & 46-605987

KNOW ALL PERSONS BY THESE PRESENTS THAT:

- Hartford Fire Insurance Company**, a corporation duly organized under the laws of the State of Connecticut
- Hartford Casualty Insurance Company**, a corporation duly organized under the laws of the State of Indiana
- Hartford Accident and Indemnity Company**, a corporation duly organized under the laws of the State of Connecticut
- Hartford Underwriters Insurance Company**, a corporation duly organized under the laws of the State of Connecticut
- Twin City Fire Insurance Company**, a corporation duly organized under the laws of the State of Indiana
- Hartford Insurance Company of Illinois**, a corporation duly organized under the laws of the State of Illinois
- Hartford Insurance Company of the Midwest**, a corporation duly organized under the laws of the State of Indiana
- Hartford Insurance Company of the Southeast**, a corporation duly organized under the laws of the State of Florida

having their home office in Hartford, Connecticut, (hereinafter collectively referred to as the "Companies") do hereby make, constitute and appoint, **up to the amount of unlimited:**

*Andrew J. Janda, C. W. Adams, Sue Kohler, Leland L. Rauch, Sharon Cavanaugh, Cheryl R. Colson,
 Michael Cole, Kurt A. Risk, James Wynne Tomforde*
 of
Houston, TX

their true and lawful Attorney(s)-in-Fact, each in their separate capacity if more than one is named above, to sign its name as surety(ies) only as delineated above by and to execute, seal and acknowledge any and all bonds, undertakings, contracts and other written instruments in the nature thereof, on behalf of the Companies in their business of guaranteeing the fidelity of persons, guaranteeing the performance of contracts and executing or guaranteeing bonds and undertakings required or permitted in any actions or proceedings allowed by law.

In Witness Whereof, and as authorized by a Resolution of the Board of Directors of the Companies on January 22, 2004 the Companies have caused these presents to be signed by its Assistant Vice President and its corporate seals to be hereto affixed, duly attested by its Assistant Secretary. Further, pursuant to Resolution of the Board of Directors of the Companies, the Companies hereby unambiguously affirm that they are and will be bound by any mechanically applied signatures applied to this Power of Attorney.



Wesley W. Cowling

Wesley W. Cowling, Assistant Secretary

M. Ross Fisher

M. Ross Fisher, Assistant Vice President

STATE OF CONNECTICUT }
 COUNTY OF HARTFORD } ss. Hartford

On this 12th day of July, 2012, before me personally came M. Ross Fisher, to me known, who being by me duly sworn, did depose and say: that he resides in the County of Hartford, State of Connecticut; that he is the Assistant Vice President of the Companies, the corporations described in and which executed the above instrument; that he knows the seals of the said corporations; that the seals affixed to the said instrument are such corporate seals; that they were so affixed by authority of the Boards of Directors of said corporations and that he signed his name thereto by like authority.



CERTIFICATE

Kathleen T. Maynard
 Kathleen T. Maynard
 Notary Public
 My Commission Expires July 31, 2016

I, the undersigned, Assistant Vice President of the Companies, 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 effective as of **March 29, 2016**
 Signed and sealed at the City of Hartford.



Gary W. Stumper

Gary W. Stumper, Assistant Vice President

Inquiries Regarding Claims

Hartford Fire Insurance Company	Twin City Insurance Company
Hartford Casualty Insurance Company	Hartford Insurance Company of Illinois
Hartford Accident and Indemnity Company	Hartford Insurance Company of the Midwest
Hartford Underwriters Insurance Company	Hartford Insurance Company of the Southeast

Please address inquiries regarding Claims for all surety and fidelity products issued by The Hartford's underwriting companies to the following:

Phone Number : 888-266-3488
Fax - Claims : 860-757-5835 or 860-547-8265
E-mail : claims@1stepsurety.com

Mailing Address : The Hartford
The Hartford Fidelity & Bonding (BOND)
Hartford Plaza
690 Asylum Avenue
Hartford, CT 06115

IMPORTANT NOTICE

To obtain information or make a complaint:

You may contact your agent.

You may call Hartford Insurance Group at the toll free telephone number for information or to make a complaint at:

1-800-392-7805

You may also write to The Hartford:

**The Hartford
Hartford Financial Products
2 Park Avenue, 5th Floor
New York, New York 10016
1-212-277-0400**

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 149104
Austin, TX 78714-9104
Fax Number (512) 475-1771
Web: <http://www.tdi.state.tx.us>
E-mail: ConsumerProtection@tdi.state.tx.us

PREMIUM OR CLAIMS 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 your information only and does not become a part or condition of the attached document.

AVISO IMPORTANTE

Para obtener informacion o para someter una queja.

Puede comunicarse con su agente.

Usted puede llamar al numero de telefono gratis de The Hartford Insurance Group para informacion o para someter una queja al

1-800-392-7805

Usted tambien puede escribir a The Hartford.

**The Hartford
Hartford Financial Products
2 Park Avenue, 5th Floor
New York, New York 10016
1-212-277-0400**

Puede comunicarse con el Departamento de Seguros de Texas para obtener informacion acerca de companias, coberturas, derechos o quejas al:

1-800-252-3439

~~Puede escribir al Departamento de Seguros de Texas~~

P.O. Box 149104
Austin, TX 78714-9104
Fax Number (512) 475-1771
Web: <http://www.tdi.state.tx.us>
E-mail: ConsumerProtection@tdi.state.tx.us

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

UNA ESTE AVISO A SU POLIZA: Este aviso es solo para proposito de informacion y no se convierte en parte o condicion del documento adjunto.

CONSTRUCTION

OF

WATER PLANT No. 1 - PHASE II & REMOTE WATER WELL

FOR

K. B. HOME LONE STAR, INC. AND VENTANA DEVELOPMENT KATY, LTD.

ON BEHALF OF

WILLOW POINT MUNICIPAL UTILITY DISTRICT

FORT BEND COUNTY, TEXAS

INDEX OF DRAWINGS

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5.	WATER WELL P&ID
6.	BOOSTER STORAGE TANKS P&ID
7.	BOOSTER PUMPS P&ID
8.	HYDRO TANKS P&ID
9.	SODIUM HYPOCHLORITE DISINFECTION
10.	OVERALL SITE AND STORM WATER POLLUTION PREVENTION PLANS
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11.	BOOSTER PUMP AND PIPING DETAILS
12.	HYDRO TANK AND PIPING DETAILS
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27.	REMOTE WATER WELL ELECTRICAL SITE LAYOUT
28.	REMOTE WATER WELL ONE-LINE DIAGRAM
29.	REMOTE WATER WELL ELECTRICAL CONTROL DIAGRAM
30.	REMOTE WATER WELL ELECTRICAL DETAILS

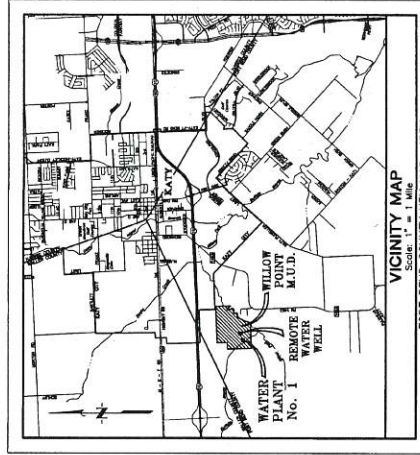
NOTES:
 These plans were prepared to meet or exceed the specifications and requirements of the City of Houston, Texas and Fort Bend County, Texas as currently amended, whichever is more stringent.
 Approval by Fort Bend County will be deemed void if construction has not begun within one year of approval date.
 Construction shall not begin before the plot of this section is filed in the Fort Bend County Map Records.
 Construction will be monitored by a registered professional engineer of JONES & CARTER, INC.
 Contractor shall notify the Fort Bend County Engineering Department at least 48 hours prior to commencement at (281) 633-7500.

I, Tregg W. McQuerry, a Professional Engineer, licensed in the State of Texas, hereby certify that these drawings were prepared under my supervision to meet or exceed the specifications and requirements of Fort Bend County, Texas.

Tregg W. McQuerry, P.E.
 Tregg W. McQuerry, P.E.
 Date: 2-13-2015

FEBRUARY 2015
 JC JOB No. 05535-0188-00

JC JONES & CARTER, INC.
 ENGINEERS - PLANNERS - SURVEYORS
 Texas Board of Professional Engineering Registration No. F-439
 6335 Gullion Dr., Suite 100 Houston, Texas 77081 (713) 777-5337



VICINITY MAP
 Scale: 1" = 1 Mile
 FORT BEND COUNTY RET. MAP: 483H
 1250 1/2 Posey Ridge Lane A. Katy, Texas 77494

FORT BEND COUNTY ENGINEER

ENGINEER: *Tregg W. McQuerry*

DATE: 4/15/15

THESE SIGNATURES ARE VOID IF CONSTRUCTION BEGINS BEFORE THE DATE OF APPROVAL.

APPROVED: *Tregg W. McQuerry*

DATE: 4/15/15

DEVELOPMENT COORDINATOR

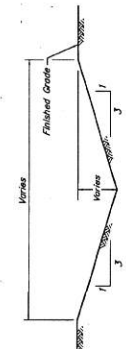
GENERAL CONSTRUCTION NOTES

- The Contractor shall be fully responsible for protecting, maintaining, and restoring all existing public or private utilities, including but not limited to paving, waterline, wastewater collection systems, storm sewer systems and traffic/light signals, or other utilities, which are damaged or destroyed during the construction. All utilities shall be repaired or restored to existing or better condition, unless otherwise noted, at no additional cost to the Public or the Contractor.
- The approximate location of existing utilities are given for reference only. Before commencing any construction, the Contractor shall verify the location and depth of all utilities which are shown on the construction drawings and adjacent to the limits of the work that may be affected by the work. Conflicts which result due to the location of existing utilities and the proposed construction shall be resolved by the Contractor. Any change in the location of existing utilities shall be approved by the Engineer. Any extensive design changes necessitated by the failure of the Contractor to verify the location of existing utilities as described above shall be borne by the Contractor.
- Contractor to contact the D.C. TESS Co. at (713) 223-4567 or 1-(800) 456-7890 for information on existing facilities shown on the plans.
- Contractor shall verify the location of all existing utilities shown on the plans at least 24 hours before commencing any construction activities on the site.
- Contractor shall obtain all permits required by the Fort Bend County Drainage District in Fort Bend County, Texas, prior to starting construction.
- Contractor to obtain all permits required by Fort Bend County, Texas prior to starting construction of utilities and/or culverts within Fort Bend County road right-of-way.
- Adequate drainage shall be maintained at all times during construction and any reduction of the existing drainage shall be approved by the Engineer. All construction shall comply with the Texas State Law concerning trench safety systems.
- This project is within Fort Bend County, Texas.
- Contractor shall keep existing streets and roads open to all traffic and allowed during construction.
- Contractor shall maintain adequate drainage and safe access to adjacent properties, regardless of the weather conditions. Do not construct any structures, foundations, or other structures adjacent to the construction zone.
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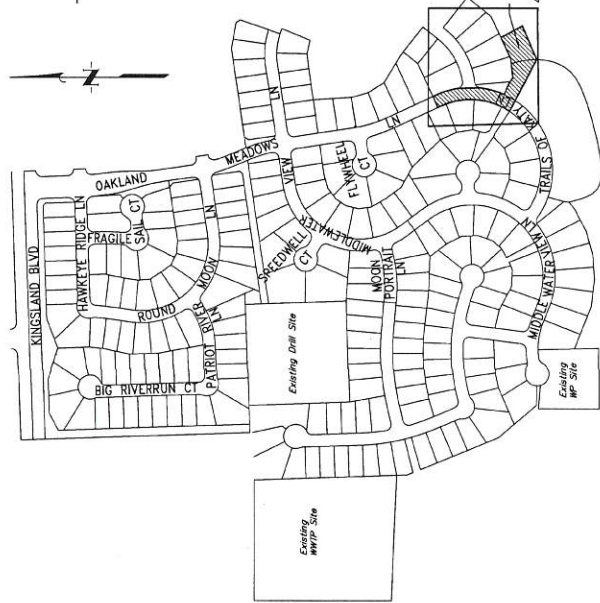
WATER-PLANT CONSTRUCTION NOTES

- All internal piping shall be ductile iron pipe (DIP) or welded steel pipe rated for an internal working pressure of 150 psi. Pipe used with threaded or flanged connections shall be minimum Class 33 (minimum 50' length). Pipe used with compression fittings shall be minimum Class 33 (minimum 50' length). All pipe shall be applied and installed in accordance with the latest revision of AWWA C153.
- Flanged connections and/or compression-type push-on connections shall be noted installed in accordance with the latest revision of AWWA C115.
- All underground ductile iron pipe connections shall be flanged. Underground DIP connections to be bolt-tight and push-on after the first flanged fitting below ground.
- All flanges below grade shall have stainless steel bolts and nuts.
- All internal water plant valves shall open counter-clockwise. Valves within public street rights of way shall open counter-clockwise. Valves within private property shall be installed in accordance with the latest revision of AWWA C209 and C204.
- All underground valves 12"-inch (12") and smaller shall be mechanical joint non-rising operating nuts, except where flanged ends are called out on the plans.
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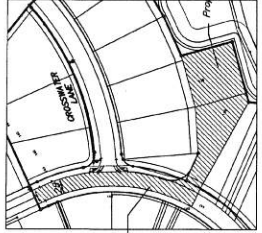
- All other water valves larger than 12-inch (12") shall have a butterfly style butterfly valves, galvanized with resilient seats, post indicators and handlocks.
- All underground valves larger than 12-inch (12") shall be mechanical joint butterfly valves, galvanized with resilient seats and 2"-inch (2") square operating nuts, except where flanged ends are called out on the plans.
- All buried valves are to be equipped with valve boxes adjusted to their final elevation after final grading is complete.
- 4"-inch (4") to 12"-inch (12") water lines shall have a minimum cover of four feet (4'). Water lines larger than 12 inches (12") shall have a minimum cover of five feet (5').
- The interior and exterior of ductile iron pipe shall be coated as specified in Sections 15600 and 03920 of the Contract Specifications. Buried exterior of welded steel pipe shall be coated as specified in Section 15500.
- All new ductile iron pipe shall be 4-1/2" nominal diameter, liquid-line, stainless steel cast with 1/2" bottom connection.
- Concrete thrust blocks shall be provided at all underground tees, bends, laterals, and joints. They shall be constructed in accordance with the details in the Contract Construction Drawings and Specifications to prevent pipe movement.
- Concrete splash blocks and pads shall be constructed as shown in the Contract Construction Drawings unless directed otherwise by the Engineer.
- Provide protective coatings for all the proposed water plant facilities in accordance with Section 03920 of the Contract Specifications.
- Hydro-mulch seed the proposed water plant site, existing water line easement and adjacent areas. Hydro-mulch shall be applied in accordance with Section 02601 of the Contract Specifications. Inclusive of watering, fertilizing, mowing, and maintenance, until a storm of grass has been established and all governing agencies have inspected and accepted the subject project.
- Roll welded steel wire fabric shall be provided in sheets. Rolled welded wire fabric is not allowed.
- Waterline fittings shall be cast or ductile iron unless otherwise noted.
- Waterlines shall be constructed so that all creases, kinks, and valves are not located under pavement or future facilities unless directed otherwise by the Engineer.
- All existing and proposed piping, (CIP, CI, or duct bank crossings) shall be protected with concrete encasement. The concrete encasement shall be applied in accordance with the details in the Contract Construction Drawings and Specifications.
- All new installed pipes, coatings, and recycled products shall conform to American National Standards Institute/National Sanitation Foundation (ANSI/NFPA) standards and must be certified by an organization accredited by ANSI.
- Isolation kits are required on all disassembler.
- All piping under or within one foot (1') of future, proposed or existing pavement shall be installed with 1-1/2" max./CY cement-sand to a point 8-inch (8") lifts compacted to 95% standard proctor density per AASHTO Test Method T-99. Moisture content shall be as specified. (No Separate Pay)
- Hand dig as required around existing utilities. The Contractor shall be fully responsible for protecting, maintaining, and restoring all existing utilities. The Contractor shall be notified immediately of any damages and lines to be repaired. The Contractor shall be responsible for the repair and replacement of any damaged lines. Repairs shall be made at no cost to the Public or the Owner.
- Contractor shall drill holes through existing CUI walls for proposed piping or electrical conduit. The Contractor shall be notified immediately of any damages and lines to be repaired. The Contractor shall be responsible for the repair and replacement of any damaged lines. Repairs shall be made at no cost to the Public or the Owner.
- Contractor shall install a minimum of 1/2" larger in diameter than the pipe or conduit diameter being installed. All CUI wall penetrations shall be sealed with approved non-shrink grout per the Contract Specifications.
- The Water Plant Operator and Engineer to limit the extent of this project closely with interruptions to normal plant operations needed to complete construction of the proposed facilities.
- Contractor to install all above ground small diameter piping, 4" diameter and below.



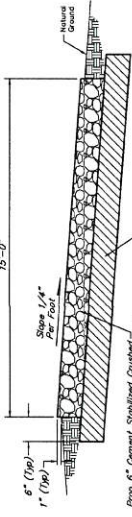
TYPICAL SWALE DETAIL
NOT TO SCALE



KATY TRAILS KEY MAP
NOT TO SCALE

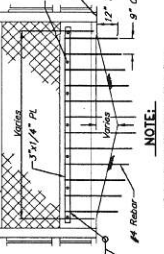


DETAILED MAP OF FILL AREA AND TEMPORARY ACCESS ROAD
NOT TO SCALE



TEMPORARY ACCESS ROAD - PAVEMENT SECTION
NOT TO SCALE

SWALE CROSSING FENCE DETAIL



SWALE CROSSING FENCE DETAIL
NOT TO SCALE

APPROVED: *[Signature]*
DATE: 4/16/15
ENGINEERING COORDINATOR

NO. DATE	REVISION

WILLOW POINT M.U.D.
FORT BEND COUNTY, TEXAS

WATER PLANT No. 1 - PHASE II
& REMOTE WATER WELL

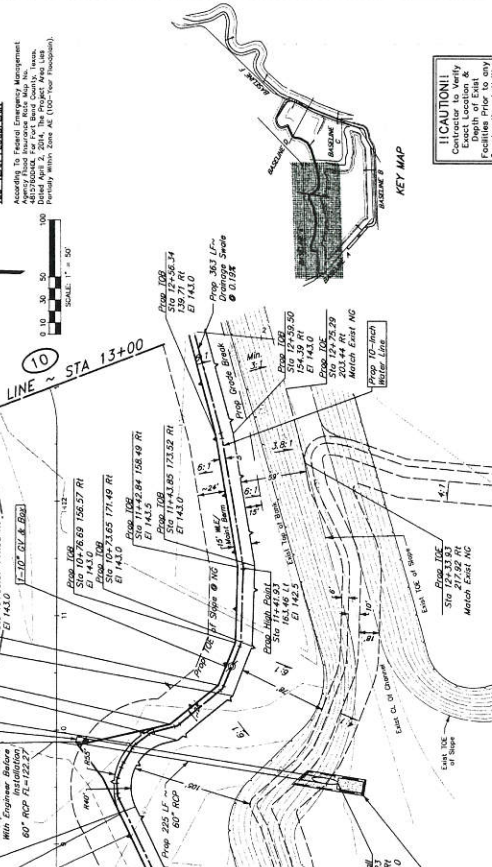
JC JONES & CARTER
ENGINEERS-PLANNERS-SURVEYORS
1000 West Loop South, Suite 100, Houston, Texas 77027
Tel: 713-777-5207
Fax: 713-777-5207

SCALE: AS SHOWN DIM. BY: LSW
DATE: FEBRUARY 2015 DIM. BY: JSM
JOB NO. 03332-2018-00 DWG. NO. SWR-01
SUBMITTED: 2/17/15 F.I. NO.

332015
SHEET NO. 2
OF 30

BENCH MARK
 Station 10+00.00, Elevation 153.85'
 Station 10+00.00, Elevation 153.85'
 Station 10+00.00, Elevation 153.85'

100-YEAR FLOODPLAIN
 According to Federal Emergency Management Agency (FEMA) Flood Insurance Study (FIS) for Fort Bend County, Texas. Primary Flood Zone #2 (100-Year Floodplain). Elevation = 153.85' (NAVD 88, Adjustment)



CAUTION!
 Contractor to Verify Exact Location & Elevation of All Utilities & Obstructions Prior to any Construction Activities

CAUTION!
 CONTACT DEVELOPMENT COORDINATOR 48 HOURS PRIOR TO CONSTRUCTION

APPROVED: _____ DATE: _____

DEVELOPMENT COORDINATOR

NO. DATE	REVISIONS	APP.

WILLOW POINT MUNICIPAL
 FORT BEND COUNTY TEXAS

TRAILS OF KATY DETENTION PHASE 2

STA 1+00.00 TO 13+00.00

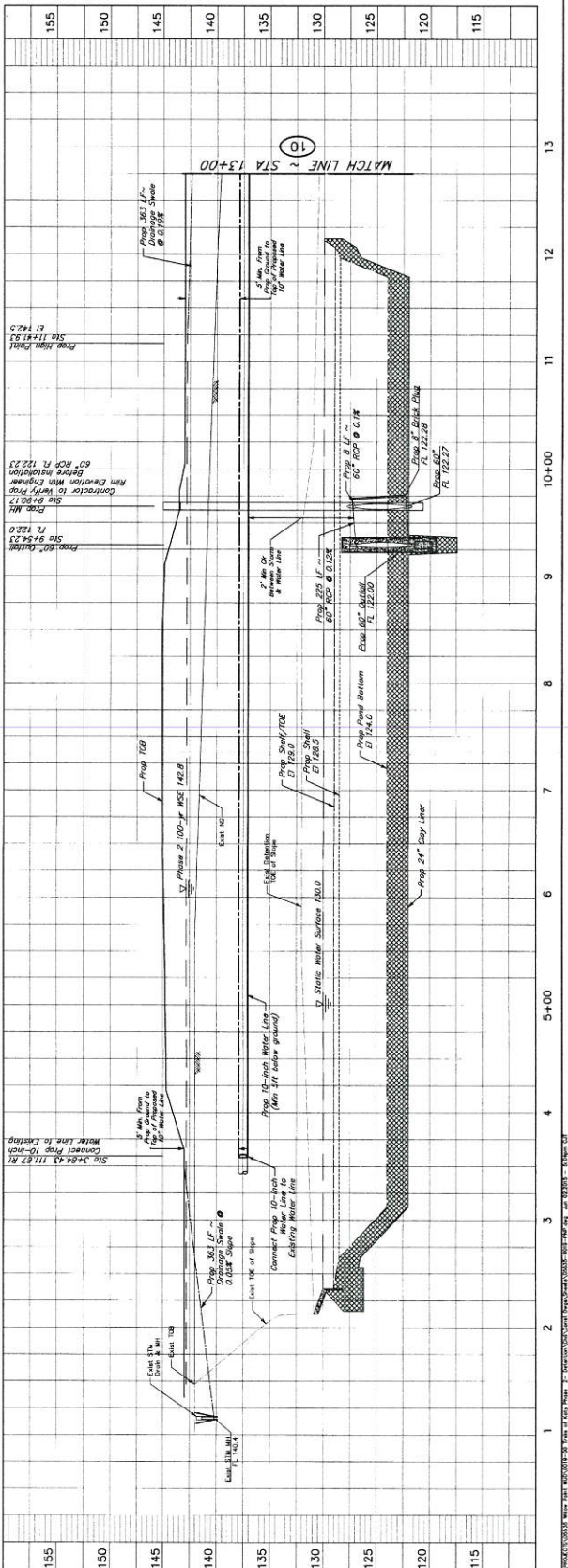
J.C. JONES & CARTER, INC.
 4500 West Loop South, Suite 1000, Houston, Texas 77027
 (713) 777-7777

SCALE: 1"=30' HORIZ. V. SCALE: 1"=10' VERT.
 DATE: JUNE 2024 DRAWN BY: JDE
 JOB NO.: 2024-0012-001-001
 PROJECT: TRAILS OF KATY DETENTION PHASE 2
 F.B. NO.: _____

DR. W. KALAMAKI
 10000
 10000
 10000
 10000

SHEET NO. **9** OF 15
 6/14

BASELINE 'E'



10+00.00
 10+01.25
 10+02.50
 10+03.75
 10+05.00
 10+06.25
 10+07.50
 10+08.75
 10+10.00
 10+11.25
 10+12.50
 10+13.75
 10+15.00
 10+16.25
 10+17.50
 10+18.75
 10+20.00

PROJECT: TRAILS OF KATY DETENTION PHASE 2, STA 1+00 TO 13+00. SHEET NO. 9 OF 15. DATE: 6/14/24. DRAWN BY: JDE. CHECKED BY: JDE. SCALE: 1"=30' HORIZ. V. SCALE: 1"=10' VERT.

MISCELLANEOUS SYMBOLS:

<p>PLUG VALVE (NORMALLY OPEN)</p> <p>PLUG VALVE (NORMALLY CLOSED)</p> <p>BALL VALVE (NORMALLY OPEN)</p> <p>BALL VALVE (NORMALLY CLOSED)</p> <p>BUTTERFLY VALVE</p> <p>CHECK VALVE</p> <p>GATE CHECK VALVE</p> <p>SILENT CHECK VALVE</p> <p>SWING CHECK VALVE</p> <p>BALL CHECK VALVE</p> <p>GATE VALVE (NORMALLY OPEN)</p> <p>GATE VALVE (NORMALLY CLOSED)</p> <p>GLOBE VALVE (NORMALLY OPEN)</p> <p>GLOBE VALVE (NORMALLY CLOSED)</p> <p>SAMPLE COCK (NORMALLY CLOSED)</p> <p>NEEDLE VALVE (NORMALLY OPEN)</p> <p>NEEDLE VALVE (NORMALLY CLOSED)</p> <p>ANGLE VALVE (NORMALLY OPEN)</p> <p>ANGLE VALVE (NORMALLY CLOSED)</p> <p>THREE-WAY VALVE (ONE PORT CLOSED)</p> <p>FOUR-WAY VALVE (NORMALLY OPEN)</p> <p>FOUR-WAY VALVE (NORMALLY CLOSED)</p> <p>AIR RELEASE VALVE</p> <p>SLUDGE AIR RELEASE VALVE</p> <p>PRESSURE RELIEF VALVE</p> <p>ANGLE PRESSURE RELIEF VALVE</p> <p>SOLENOID VALVE</p> <p>BACKPRESSURE REGULATOR SELF-CONTAINED</p> <p>PRESSURE REGULATOR SELF-CONTAINED</p> <p>BACKPRESSURE REGULATOR W/EXTERNAL PRESSURE TAP</p> <p>PRESSURE REDUCING REGULATOR W/INTERNAL PRESSURE RELIEF VALVE</p> <p>FLOW CONTROL VALVE</p> <p>PRESSURE REDUCING VALVE</p> <p>PRESSURE SUSTAINING VALVE</p> <p>VACUUM REGULATOR</p> <p>PUMP CONTROL/BACKPRESSURE VALVE</p>	<p>480 VAC ELECTRICAL SUPPLY</p> <p>240 VAC ELECTRICAL SUPPLY</p> <p>120 VAC ELECTRICAL SUPPLY</p> <p>CURRENT TRANSFORMER</p> <p>ELECTRICAL OUTLET</p> <p>ELECTRICAL PLUG</p> <p>ULTRASONIC LEVEL TRANSDUCER</p> <p>SUBMERSIBLE TRANSDUCER</p> <p>FLOAT SWITCH</p> <p>PLUG ADAPTED W/WEIGHT</p> <p>FLANGED CONNECTION</p> <p>SLUDGE GATE (NORMALLY OPEN)</p> <p>SLUDGE GATE (NORMALLY CLOSED)</p> <p>PIVOT GATE (NORMALLY OPEN)</p> <p>PIVOT GATE (NORMALLY CLOSED)</p> <p>PULL GATE (NORMALLY OPEN)</p> <p>PULL GATE (NORMALLY CLOSED)</p> <p>OVERFLOW BAFFLE</p> <p>UNDERFLOW BAFFLE</p> <p>V-NOTCH WEIR</p>	<p>PROPELLER TYPE FLOW METER</p> <p>MAGNETIC TYPE FLOW METER</p> <p>TURBINE FLOW METER</p> <p>DRAIN</p> <p>DRAIN INLET (SCREENED)</p> <p>DRAIN INLET (OPEN)</p> <p>TUBING ADAPTER</p> <p>FLEXIBLE CONNECTION</p> <p>EXPANSION COUPLING</p> <p>QUICK CONNECT</p> <p>THREADED CAP</p> <p>BLIND FLANGE</p> <p>UNION</p> <p>SLUDGE DRAIN-OFF</p> <p>AIR LIFT PUMP</p> <p>MALE GAN & GROOVE QUICK COUPLING</p> <p>DIAPHRAGM SEAL</p> <p>ANNULAR DIAPHRAGM</p> <p>AIR INTAKE FILTER</p> <p>PULSATION DAMPENER</p> <p>SINGLE DROP COARSE AIR DIFFUSER (PROFILE)</p> <p>SINGLE DROP COARSE AIR DIFFUSER (PLAN)</p> <p>SUBMERSIBLE FINE AIR DIFFUSERS</p> <p>SUBMERGED COARSE FINE SAND AIR DIFFUSERS (PUSH)</p> <p>EMERGENCY EYE WASH & SHOWER</p> <p>BASKET STRAINER</p> <p>DUPLEX BASKET STRAINER</p> <p>RUPTURE DISK (PRESSURE RELIEF)</p> <p>RUPTURE DISK (VACUUM RELIEF)</p>	<p>DISCHARGE AIR FILTER</p> <p>DISCHARGE SILENCER</p> <p>HEAT TRACING</p> <p>CALIBRATION TUBE/COLUMN</p> <p>VAPORIZER</p> <p>ANALYZER</p> <p>INJECTOR</p> <p>EJECTOR</p> <p>HEAT EXCHANGER</p> <p>TRAP</p> <p>FLOW STRAIGHTENER</p> <p>PULSATION DAMPENER</p> <p>WYE STRAINER</p> <p>MIXER</p> <p>STATIC MIXER</p> <p>MUD VALVE</p> <p>TELESCOPIC VALVE</p> <p>PLATE & FRAME HEAT EXCHANGER</p> <p>DEGASSING VALVE</p> <p>BULK STORAGE TANK</p> <p>DOUBLE WALLED BULK STORAGE TANK</p>	<p>MOTOR</p> <p>ROTARY LOBE/SCREEN POSITIVE DISPLACEMENT BLOWER</p> <p>PERISTALTIC PUMP</p> <p>MOTOR</p> <p>SUBMERSIBLE PUMP</p> <p>VERTICAL TURBINE BOOSTER PUMP</p> <p>CENTRIFUGAL PUMP (WET PIT)</p> <p>CENTRIFUGAL PUMP (DRY PIT)</p> <p>GENERAL FAN</p> <p>CENTRIFUGAL COMPRESSOR OR BLOWER</p> <p>RECIPROCATING COMPRESSOR (POSITIVE DISPLACEMENT)</p> <p>ROTARY COMPRESSOR (POSITIVE DISPLACEMENT)</p> <p>POSITIVE DISPLACEMENT BLOWER</p> <p>ROTARY LOBE PUMP</p> <p>DIAL PISTON PUMP</p> <p>SCREEN PUMP</p> <p>HOSE PUMP</p> <p>POSITIVE DISPLACEMENT PUMP</p> <p>SOLENOID METERING PUMP</p> <p>METERING PUMP</p> <p>PROGRESSIVE CAVITY PUMP</p> <p>GRINDER PUMP</p>	<p>CORPORATION STOP</p> <p>SAFETY OFFER</p> <p>SUCKER OF PRESENTER</p> <p>FOOT VALVE</p> <p>WINCH</p> <p>LOCAL DISCONNECT</p> <p>WELL SCREEN STRAINER</p> <p>PERFORATED PLATE</p>
--	--	---	--	---	---

NOTES:
For Electrical and Instrumentation Only



Nathan E. Laker
2/15/15

APPROVED: *[Signature]*
DATE: 2/15/15
ALIGNMENT COORDINATOR

NO.	DATE	REVISIONS	APP.

WILLOW POINT M.U.D.
FORT BEND COUNTY, TEXAS
WATER PLANT No. 1 - PHASE II
& REMOTE WATER WELL
P&ID LEGEND
SHEET 2 OF 2

J.C. JONES & CARTER, INC.
ENGINEERS-PLANNERS-SURVEYORS
10000 Katy Freeway, Suite 100, Houston, Texas 77057 (713) 771-5200
SCALE: NO. SCALE
DATE: FEBRUARY 2015
SUBMITTED: _____
DWN. BY: LCF
DWG. NO.: 05532-0081-00
SURV. BY: _____
F.I.L. NO.: _____



2-15-2015
SHEET NO. 4
OF 20

APPROVED: *[Signature]*
DEVELOPMENT COORDINATOR
DATE: 4/1/15

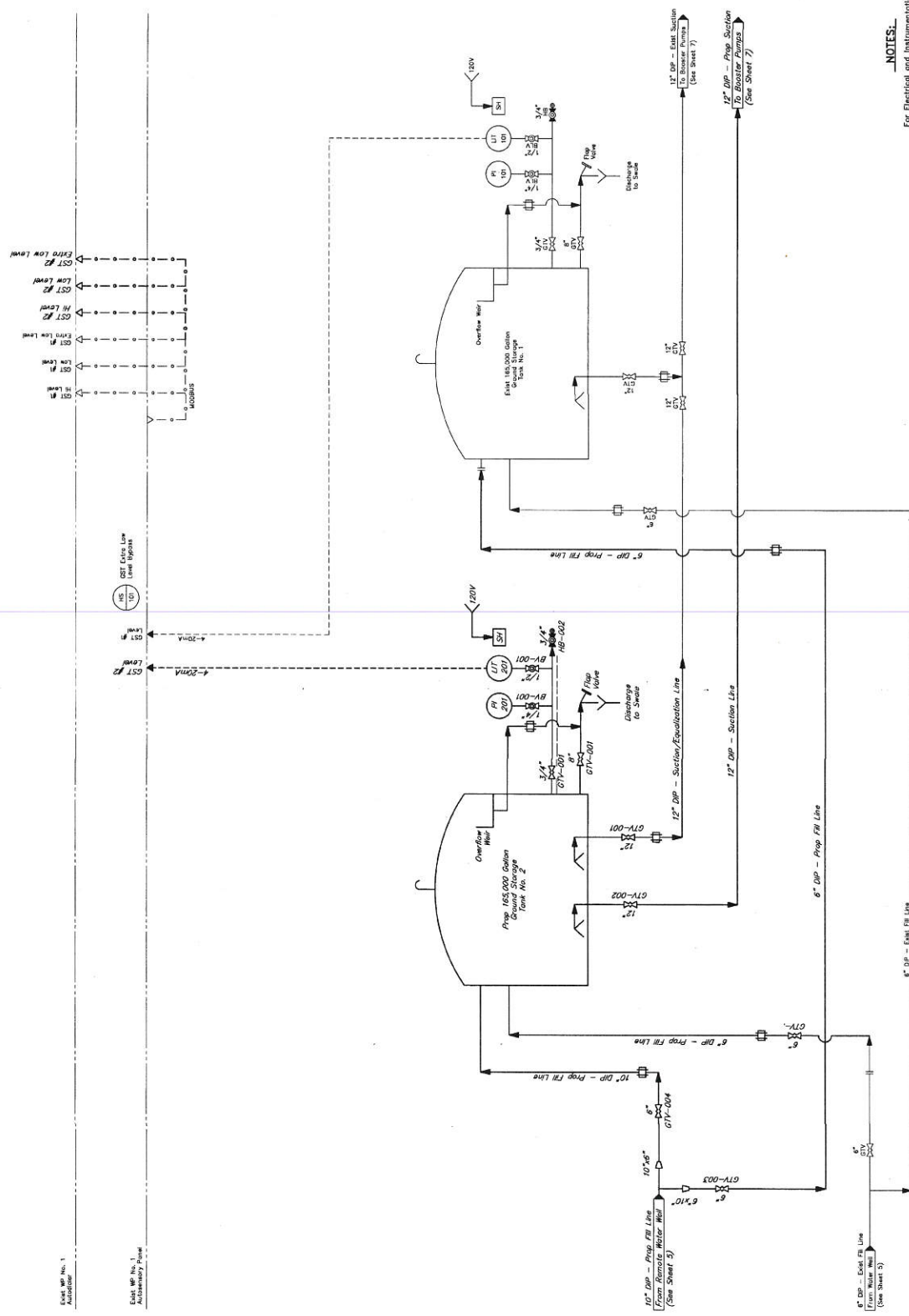
NO.	DATE	REVISIONS	APP.

WILLOW POINT M.U.D.
FORT BEND COUNTY, TEXAS
WATER PLANT No. 1 - PHASE II
& REMOTE WATER WELL
GROUND STORAGE
TANKS P&ID

J. JONES & CARTER, INC.
ENGINEER-PLANNERS-SURVEYORS
4555 Highway 63, Suite 100, Houston, Texas 77057 (713) 772-6237
SCALE: AS SHOWN
DATE: FEBRUARY 2015
JOB NO. 2015-02-001-01
SUBMITTED: 2/13/15
DWN. BY: [Signature]
CHK. NO.: [Signature]
SURV. BY: [Signature]
F.E. NO.: [Signature]



NOTES:
For Electrical and Instrumentation Only



Each Tank No. 1
Automatic

Each Tank No. 1
Automatic

BASELINE STATION/OFFSETS:

NUMBER	STATION (T)	OFFSET (T)	STATION (T)
1	1+23.75	Lt. 148.86	
2	1+51.44	Lt. 5.94	
3	1+54.37	Lt. 124.32	
4	0+48.50	Lt. 191.00	
5	0+15.77	Lt. 175.17	
6	0+15.77	Lt. 40.81	
7	0+33.79	Lt. 3.80	
8	1+58.26	Lt. 93.11	
9	1+58.26	Lt. 89.41	
10	1+55.08	Lt. 82.41	
11	1+55.08	Lt. 42.29	

100-YR FLOOD PLAIN

THIS MAP LIES WITHIN ZONE A OF THE FLOOD PLAIN. THE FLOOD PLAIN IS SHOWN BY THE DASHED LINE. THE FLOOD PLAIN IS A RESULT OF THE 100-YEAR FLOOD BASE FLOOD ELEVATION. THE FLOOD PLAIN IS A RESULT OF THE 100-YEAR FLOOD BASE FLOOD ELEVATION. THE FLOOD PLAIN IS A RESULT OF THE 100-YEAR FLOOD BASE FLOOD ELEVATION.

BENCH MARKS

6" NIS Gate Valve, NJ 1/2" Valve Box
 10" PVC / DI Adapter Coupling, PO
 10" Resilient Scent Gate Valve, PO
 12" x 45" Bend, Long Radius, PO
 12" x 90" Bend, Long Radius, PO

ABBREVIATIONS

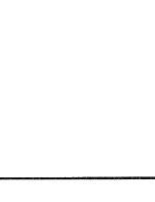
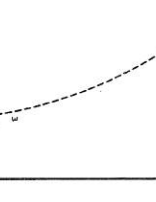
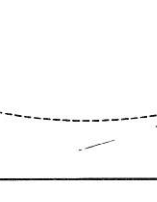
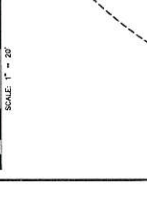
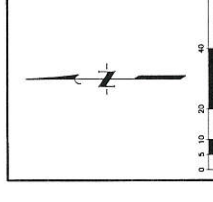
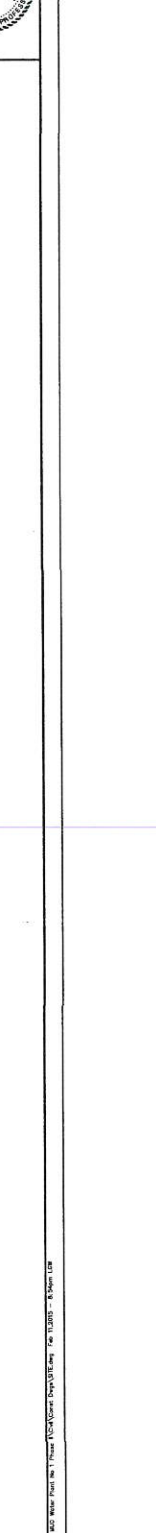
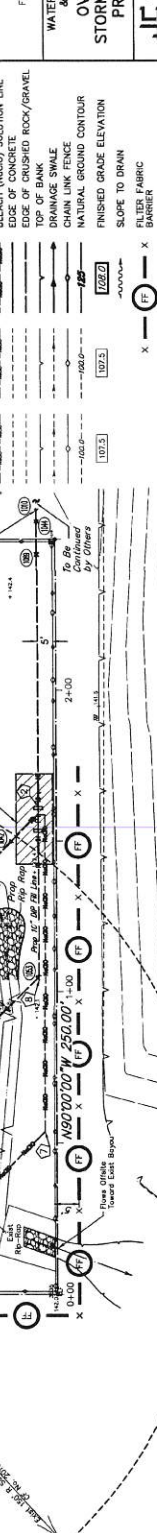
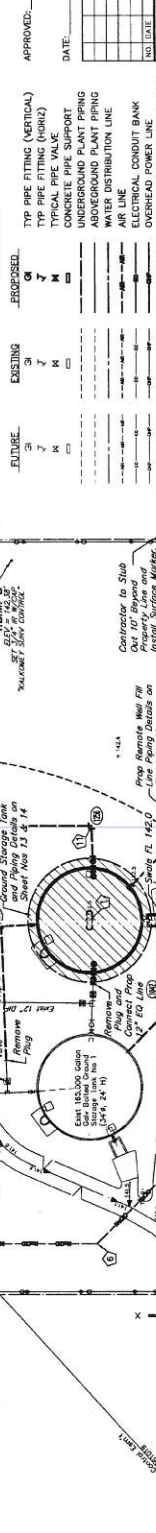
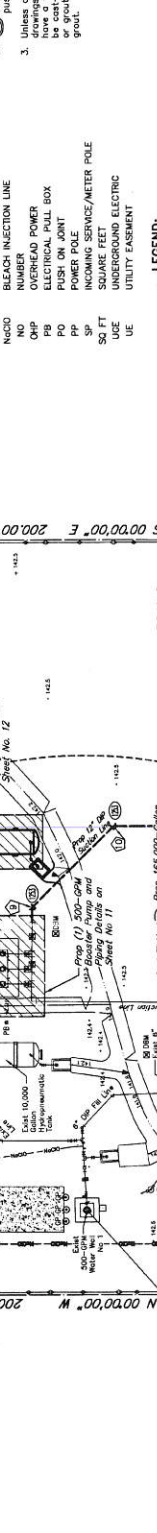
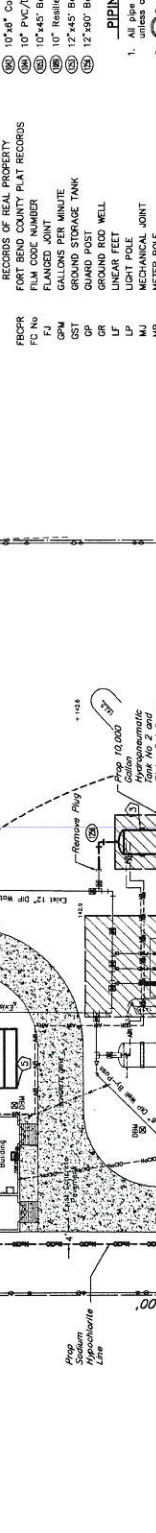
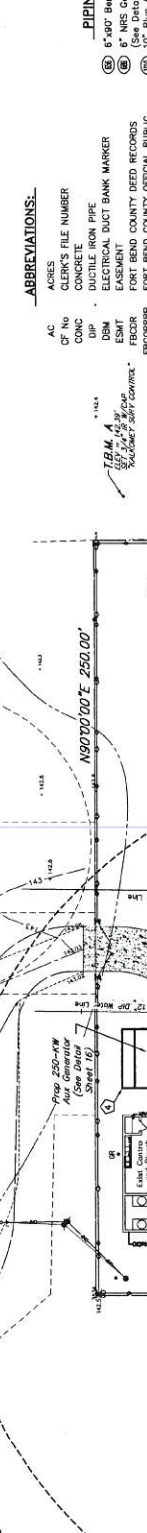
AC ACRES
 CLERK'S FILE NUMBER
 CONC CONCRETE
 DIP DUCTILE IRON PIPE
 ELEC ELECTRICAL
 FORT BEND COUNTY DEED RECORDS
 FORT BEND COUNTY OFFICIAL PUBLIC RECORDS OF REAL PROPERTY
 FCBP FORT BEND COUNTY PLAT RECORDS
 FC No FORT BEND COUNTY PLAT RECORDS
 GSP GAS PER MINUTE
 GR GROUND STORAGE TANK
 GUARD POST
 GR GROUND ROD WELL
 LF LINEAR FEET
 LP LIGHT POLE
 METER JOINT
 METER POLE
 BLEACH INJECTION LINE
 NO NUMBER
 OHP OVERHEAD POWER
 PB ELECTRICAL PULL BOX
 PO POSE ON JOINT
 SP SQUARE FEET
 SQ FT SQUARE FEET
 SO FT SQUARE FEET
 UG UNDERGROUND ELECTRIC
 UE UTILITY EASEMENT

PIPING CHART

6" x 90" Bend, PO
 6" NIS Gate Valve, NJ 1/2" Valve Box
 10" PVC / DI Adapter Coupling, PO
 10" Resilient Scent Gate Valve, PO
 12" x 45" Bend, Long Radius, PO
 12" x 90" Bend, Long Radius, PO

PIPING NOTES

1. All pipe to be ductile iron pipe (DIP)
 2. All pipe to be installed in accordance with the manufacturer's instructions.
 3. Unless otherwise noted on the construction drawings, all pipe centered in wells shall be cast-in-place with structural concrete or grouted in block-outs with non-shrink grout.



APPROVED FOR CONSTRUCTION

APPROVED: [Signature]
 DATE: 4/11/15

WILLOW POINT M.U.D.
 FORT BEND COUNTY, TEXAS

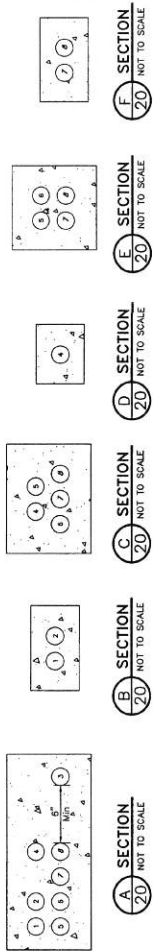
WATER PLANT NO. 1 - PHASE II
 & REMOTE WATER WELL
 OVERALL SITE AND
 STORM WATER POLLUTION
 PREVENTION PLANS

J.C. JONES & CARTER, INC.
 ENGINEERS-PLANNERS-SURVEYORS
 2200 GARDNER LANE, WILLOW POINT, TEXAS 77487

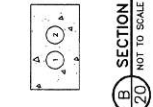
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 DATE: FEBRUARY 2015
 JOB NO: 03333-0186-00
 SUBMITTED: [Signature]

DRN BY: [Signature]
 DWG BY: [Signature]
 DWG NO: [Signature]
 SHEET NO: 10
 OF 30

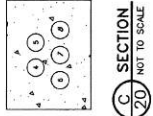
PROJ: 03333-0186-00 - Willow Point 100' Water Plant No. 1 Phase II Civil Engineering Plans - 6/20/14



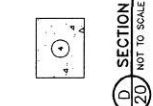
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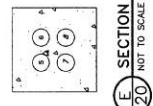
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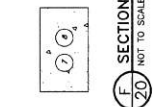
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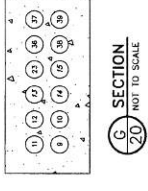
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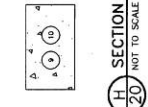
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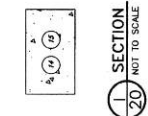
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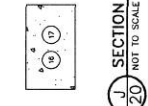
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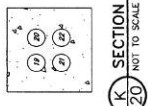
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I SECTION
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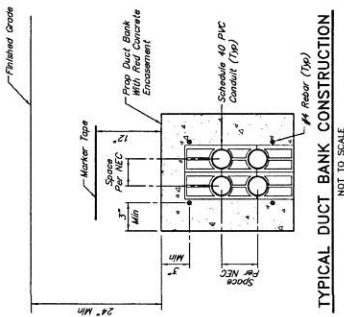


J SECTION
20 NOT TO SCALE



K SECTION
20 NOT TO SCALE

CONDUIT SCHEDULE	
NO.	DESCRIPTION
1	12" E.C. 4" x 4" x 1/2" GND
2	12" E.C. 4" x 4" x 1/2" GND
3	12" E.C. 4" x 4" x 1/2" GND
4	12" E.C. 4" x 4" x 1/2" GND
5	12" E.C. 4" x 4" x 1/2" GND
6	12" E.C. 4" x 4" x 1/2" GND
7	12" E.C. 4" x 4" x 1/2" GND
8	12" E.C. 4" x 4" x 1/2" GND
9	12" E.C. 4" x 4" x 1/2" GND
10	12" E.C. 4" x 4" x 1/2" GND
11	12" E.C. 4" x 4" x 1/2" GND
12	12" E.C. 4" x 4" x 1/2" GND
13	12" E.C. 4" x 4" x 1/2" GND
14	12" E.C. 4" x 4" x 1/2" GND
15	12" E.C. 4" x 4" x 1/2" GND
16	12" E.C. 4" x 4" x 1/2" GND
17	12" E.C. 4" x 4" x 1/2" GND
18	12" E.C. 4" x 4" x 1/2" GND
19	12" E.C. 4" x 4" x 1/2" GND
20	12" E.C. 4" x 4" x 1/2" GND
21	12" E.C. 4" x 4" x 1/2" GND
22	12" E.C. 4" x 4" x 1/2" GND
23	12" E.C. 4" x 4" x 1/2" GND
24	12" E.C. 4" x 4" x 1/2" GND
25	12" E.C. 4" x 4" x 1/2" GND
26	12" E.C. 4" x 4" x 1/2" GND
27	12" E.C. 4" x 4" x 1/2" GND
28	12" E.C. 4" x 4" x 1/2" GND
29	12" E.C. 4" x 4" x 1/2" GND
30	12" E.C. 4" x 4" x 1/2" GND
31	12" E.C. 4" x 4" x 1/2" GND
32	12" E.C. 4" x 4" x 1/2" GND
33	12" E.C. 4" x 4" x 1/2" GND
34	12" E.C. 4" x 4" x 1/2" GND
35	12" E.C. 4" x 4" x 1/2" GND
36	12" E.C. 4" x 4" x 1/2" GND
37	12" E.C. 4" x 4" x 1/2" GND
38	12" E.C. 4" x 4" x 1/2" GND
39	12" E.C. 4" x 4" x 1/2" GND
40	12" E.C. 4" x 4" x 1/2" GND
41	12" E.C. 4" x 4" x 1/2" GND
42	12" E.C. 4" x 4" x 1/2" GND
43	12" E.C. 4" x 4" x 1/2" GND
44	12" E.C. 4" x 4" x 1/2" GND



TYPICAL DUCT BANK CONSTRUCTION
NOT TO SCALE

APPROVED: *[Signature]*
DATE: 4/10/15
REGULATORY COORDINATOR

NO.	DATE	REVISIONS	APP.

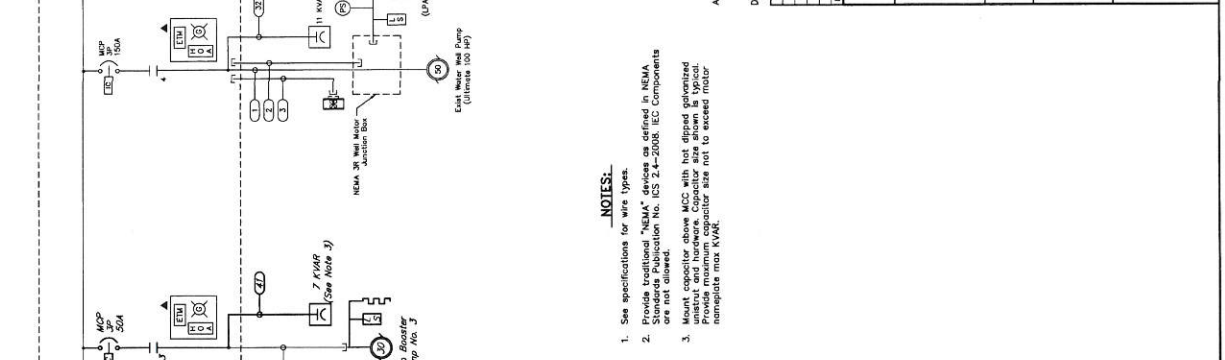
WILLOW POINT M.U.D.
FORT BEND COUNTY, TEXAS
WATER PLANT NO. 1 - PHASE II
& REMOTE WATER WELL
ELECTRICAL DUCT BANK AND
CONDUIT SCHEDULE

J.C. JONES & CASTER
ENGINEERS-PLANNERS-ARCHITECTS
2525 GARDEN LANE, SUITE 100, HOUSTON, TEXAS 77077-1227
TEL: 281-291-1100 FAX: 281-291-1101

SCALE: AS SHOWN
DATE: FEBRUARY 2015
JOB NO.: 03232-0158-00
DRAWN BY: DMC
CHECKED BY: JAD
SUBMITTED: 2/1/15
F.R. NO.:

REGISTERED PROFESSIONAL ENGINEER
NO. 11880
EXPIRES 12/31/15
WILLIAM E. LEAHY
1980

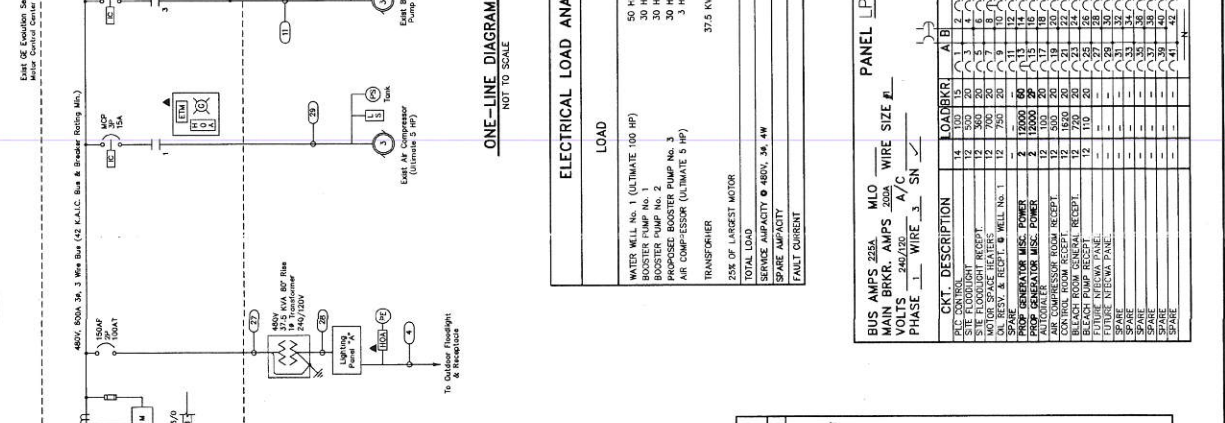
SHEET NO. 20
OF 30



ELECTRICAL LOAD ANALYSIS

NOT TO SCALE

LOAD	AMPS		S.B. KW
	FA	9C	
WATER WELL No. 1 (ULTIMATE 100 HP)	124	124	82
BOOSTER PUMP No. 1	30 HP	40	40
BOOSTER PUMP No. 2	30 HP	40	40
PROPOSED BOOSTER PUMP No. 3	30 HP	40	25
AIR COMPRESSOR (ULTIMATE 5 HP)	3 HP	7.6	7.6
TRANSFORMER	37.5 KVA	78	78
SIZE OF LARGEST MOTOR	31	31	31
TOTAL LOAD	360.6	392.6	360.6
LOAD CAPACITY @ 480V, 3A, 4W	400	600	600
SPARE CAPACITY	239.4	317.4	239.4
FACTOR CORRECT			0.82KVA



ELECTRICAL LOAD ANALYSIS

NOT TO SCALE

LOAD	AMPS		S.B. KW
	FA	9C	
WATER WELL No. 1 (ULTIMATE 100 HP)	124	124	82
BOOSTER PUMP No. 1	30 HP	40	40
BOOSTER PUMP No. 2	30 HP	40	40
PROPOSED BOOSTER PUMP No. 3	30 HP	40	25
AIR COMPRESSOR (ULTIMATE 5 HP)	3 HP	7.6	7.6
TRANSFORMER	37.5 KVA	78	78
SIZE OF LARGEST MOTOR	31	31	31
TOTAL LOAD	360.6	392.6	360.6
LOAD CAPACITY @ 480V, 3A, 4W	400	600	600
SPARE CAPACITY	239.4	317.4	239.4
FACTOR CORRECT			0.82KVA

ONE-LINE DIAGRAM LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
[Symbol]	SYSTEM GROUND	[Symbol]	STARTER DISCONNECT
[Symbol]	MOLDED CASE CIRCUIT BREAKER	[Symbol]	STARTER DISCONNECT
[Symbol]	COMBINATION "MCP" MOTOR STARTER	[Symbol]	ITEM LOCATED ON FACE OF AUTO SENSORY PANEL
[Symbol]	PHASE FAILURE RELAY	[Symbol]	PRESSURE SWITCH
[Symbol]	ELAPSED TIME METER (MAINTAINED CONTACT)	[Symbol]	TRANSFORMER
[Symbol]	LOCK-STOP STATION (AS NOTED) (COLOR)	[Symbol]	TIME CLOCK
[Symbol]	SPACE HEATER	[Symbol]	FUSE
[Symbol]	3 PHASE MOTOR (Horsepower Noted)	[Symbol]	JUNCTION BOX
[Symbol]	NEUTRAL/GROUND PAD	[Symbol]	CURRENT TRANSFORMER
[Symbol]	SPECIAL DEVICE	[Symbol]	SYSTEM MONITOR
[Symbol]	GROUND BUS	[Symbol]	CAPACITOR
[Symbol]	SURGE PROTECTION DEVICE	[Symbol]	VOLTAGE TRANSFORMER
[Symbol]		[Symbol]	TIME CLOCK
[Symbol]		[Symbol]	THERMOSTAT

NOTES:

- See specifications for wire types.
- Provide traditional "NEMA" devices as defined in NEMA Standards Publication No. ICS 2.4-2008. IEC Components are not allowed.
- Provide all motors above 100 HP with hot dipped galvanized unslotted and torqued. Capacitor size shall be typical in accordance with NEMA.

1. Breakers 1P/20A unless marked otherwise.

2. Adj. data. to bid. pvt.

NOTES:

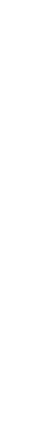
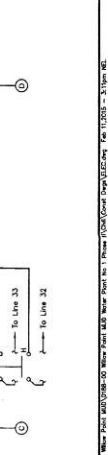
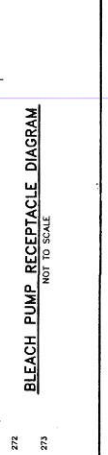
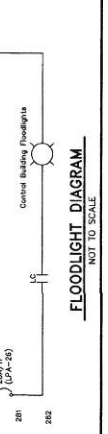
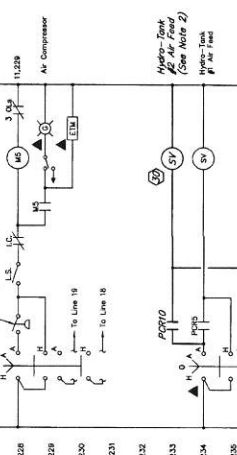
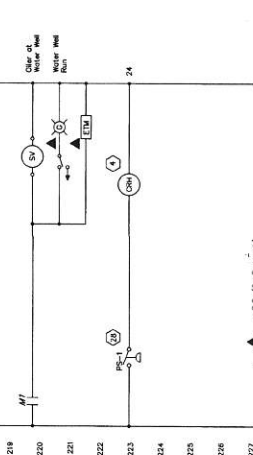
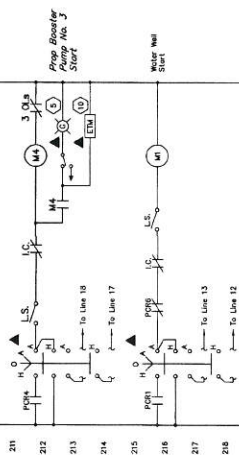
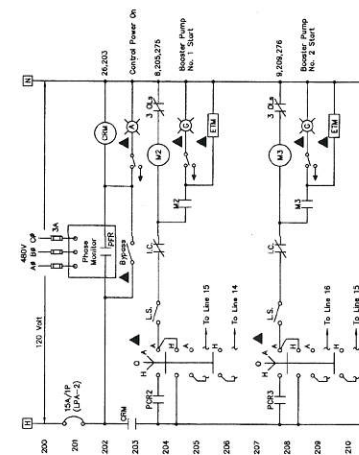
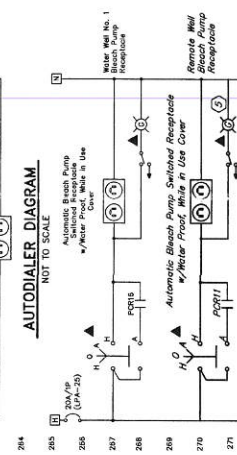
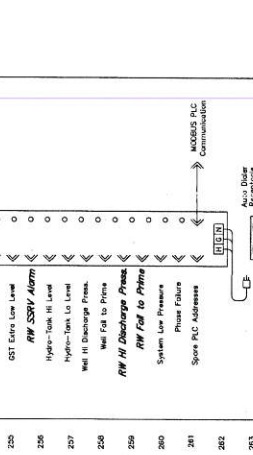
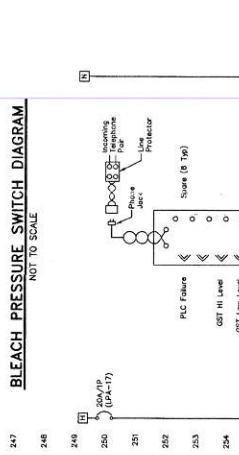
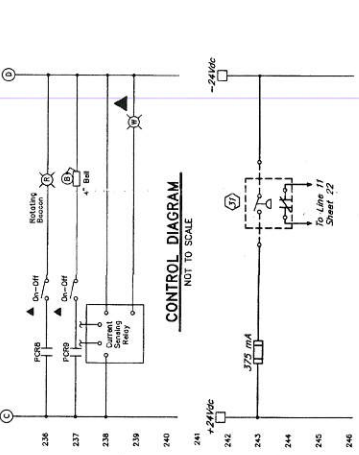
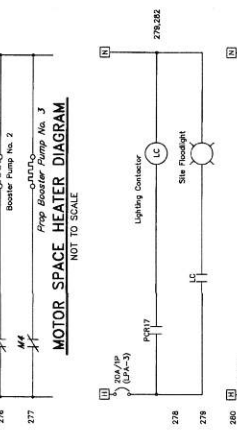
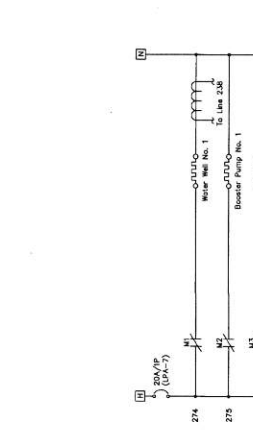
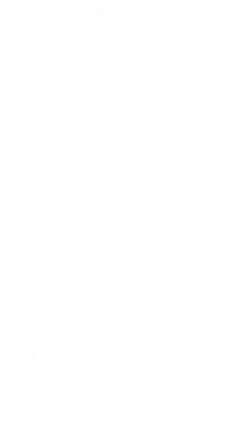
- Items to be added or deleted, or other items or existing.
- Contractor shall replace the existing air feed HOA switch in necessary to provide Solenoid Valve Earth (SVE) for the PLC. The SVE shall be independently of each other through the PLC in AUTO.

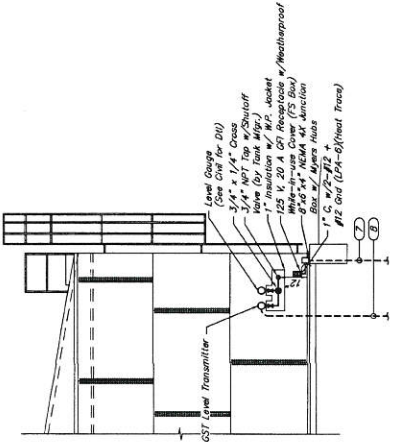
APPROVED: *[Signature]*
 DEVELOPMENT COORDINATOR
 DATE: 4/1/15

NO.	DATE	REVISIONS	APP.

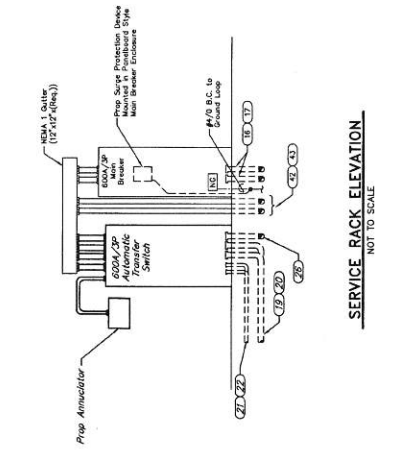
WILLOW POINT M.U.D.,
 FORT BEND COUNTY, TEXAS
 WATER PLANT No. 1 - PHASE II
 & REMOTE WATER WELL
 ELECTRICAL CONTROL
 DIAGRAM SHEET 2 OF 2

J.C. JONES & COMPANY
 ENGINEERS-PLANNERS-ARCHITECTS
 2000 West Loop South, Suite 1000, Houston, Texas 77027
 PHONE: 713.865.1100 FAX: 713.865.1101
 DATE: 03/20/15 DRAWN BY: DJT
 JOB NO. 150505-0000-0000 SHEET NO. 23
 SUBMITTED: 3/1/15
 E.B. NO. *[Signature]*
 NATHAN E. LARKER
 18870
 SHEET NO. 23
 OF 30



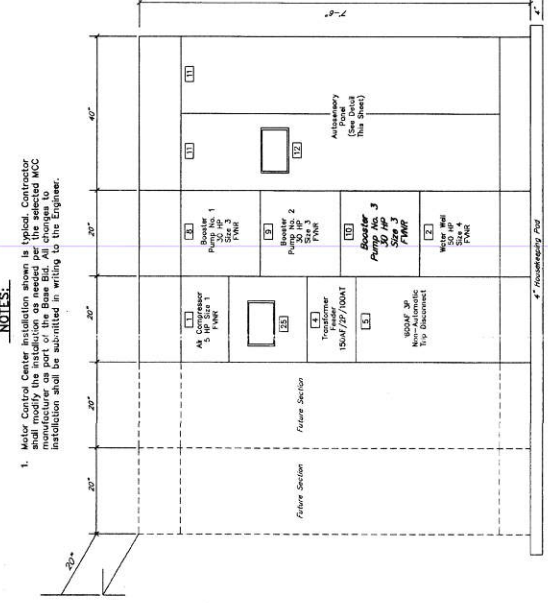


NO.	DESCRIPTION	NO.	DESCRIPTION
1	AIR COMPRESSOR	19	HYDRO-TANK AIR FEED
2	WATER WELL BLEACH RECEPTACLE	20	NOT USED
3	REMOTE WELL BLEACH RECEPTACLE	21	NOT USED
4	TRANSFORMER FEEDER	22	OST EXTRA LOW LEVEL BYPASS
5	MCC DISCONNECT	23	NOT USED
6	WELL MOTOR SPACE HEATER ON	24	NOT USED
7	NOT USED	25	SYSTEM MONITOR
8	BOOSTER PUMP NO. 1	26	BEACON ON-OFF
9	BOOSTER PUMP NO. 2	27	BELL ON-OFF
10	BOOSTER PUMP NO. 3	28	NOT USED
11	AUTOSENSORY PA-EL	29	NOT USED
12	HMI	30	NOT USED
13	CONTROL POWER BYPASS	31	NOT USED
14	CONTROL POWER ON	32	NOT USED
15	NOT USED	33	BLEACH PUMP RECEPTACLE
16	WATER WELL	34	ALARM RESET
17	FLOODLIGHTS	35	ALARM SILENCE
18	AIR COMPRESSOR	36	ALARM TEST

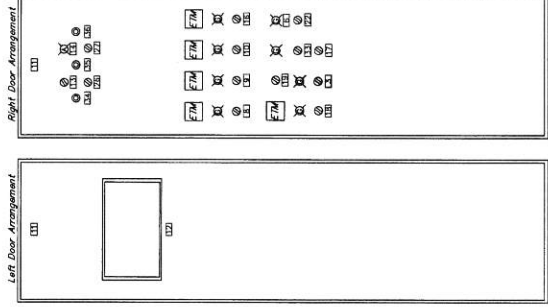
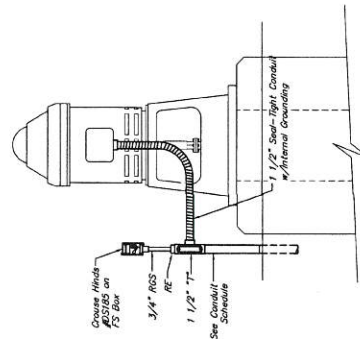


G.S.T. DETAIL
NOT TO SCALE

NOTES:
1. Motor Control Center installation shown is typical. Contractor shall modify the installation as needed per the selected MCC manufacturer as part of the Base Bid. All changes to installation shall be submitted in writing to the Engineer.



BOOSTER PUMP DETAIL
NOT TO SCALE



MODIFICATIONS TO EXISTING MOTOR CONTROL CENTER
NOT TO SCALE

AUTOSENSORY DOOR LAYOUT
NOT TO SCALE

APPROVED: *[Signature]* PROJECT COORDINATOR
DATE: 4/6/15

WILLOW POINT M.U.D.,
FORT BEND COUNTY, TEXAS

WATER PLANT NO. 1 - PHASE II
& REMOTE WATER WELL
ELECTRICAL DETAILS
SHEET 1 OF 3

J.C. JONES & CARTER, INC.
ENGINEERS-PLANNERS-SURVEYORS
2025 Lakewood Dr., Suite 100, Houston, Texas 77058 (713) 777-2337

SCALE: AS SHOWN
DATE: FEBRUARY 2015
JOB NO. 05535-0386-00
SUBMITTED: 2/1/15

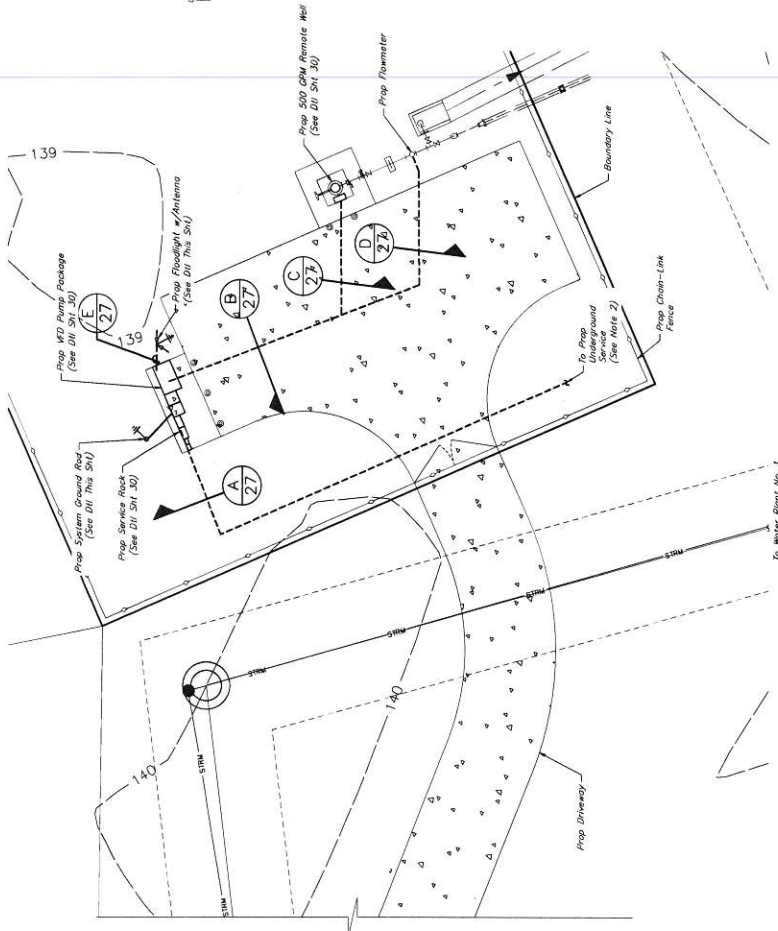
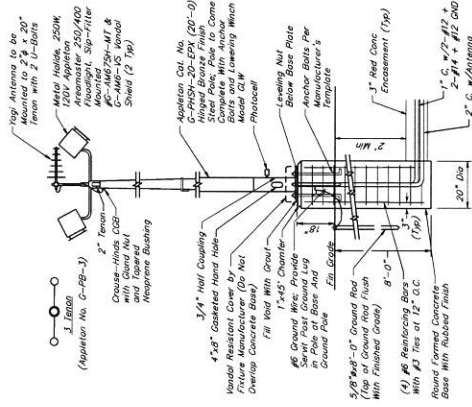
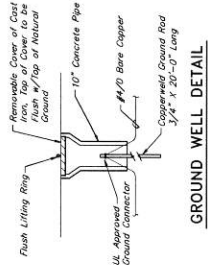
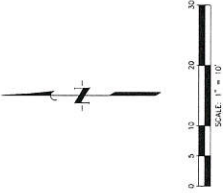
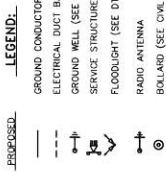
DRAWN BY: MEL
CHECKED BY: DSE
DATE: FEBRUARY 2015
JOB NO. 05535-0386-00
SUBMITTED: 2/1/15

F.B. NO. 19670

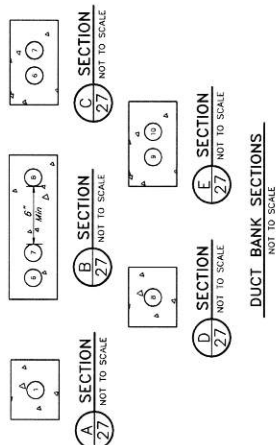
SHEET NO. 24 OF 30

NOTES:

- All construction shall comply with local and national codes and requirements.
- All aspects of this installation must comply with the latest utility company standards. Review this project's service requirements of location, ratings, and methods with power company prior to beginning construction. Coordinate with the utility company for the location of the underground service laterals and single phase transformer.
- Conduits shall not be routed across walkways, paths of access, travel, or egress. Route beneath gratings, in concrete structures, or around equipment. Do not route in conflict with other piping, conduits, equipment, or structures.
- Contractor shall be responsible for obtaining any and all permits associated with this work. The costs of the permits, if any, shall be borne by the Contractor.
- All above ground conduit and vertical riser conduits from back bank shall be provided all conduit entering MCC & other enclosure from bottom with grounding busing & bond wire per N.E.C. Do not chase lug.
- See specifications for wire types.
- Mount radio transmitter antenna at the top of proposed floodlight pole as shown. Height and direction of antenna to be adjusted as needed per radio manufacturer's instructions. Contractor shall provide a constant communication link with Water Plant No. 1.



NO.	SIZE & CONDUCTORS	DESCRIPTION
1	4\"/>	
2	4\"/>	
3	1\"/>	
4	4\"/>	
5	2\"/>	
6	2\"/>	
7	1\"/>	
8	1\"/>	
9	1\"/>	
10	2\"/>	
11	1\"/>	
12	1\"/>	



APPROVED: *[Signature]* DEVELOPMENT COORDINATOR

DATE: 4/11/15

WELLOW POINT M.U.D.
FORT BEND COUNTY, TEXAS

WATER PLANT No. 1 - PHASE II
& REMOTE WATER WELL

REMOTE WATER WELL
ELECTRICAL SITE LAYOUT

J.C. JONES & CARTER, INC.
ENGINEERS-PLANNERS-SURVEYORS
4303 BUCKLEBOURNE DRIVE, SUITE 100, HOUSTON, TEXAS 77057-4331
TEL: 281-416-8800 FAX: 281-416-8801

SCALE: AS SHOWN DWN BY: JED
DATE: FEBRUARY 2015 DWG. NO.:
JOB NO.: 05333-018B-02 DWG. BY:
SUBMITTED: SHW. BY:
F.B. NO.:

WATER PLANT No. 1 - PHASE II
ELECTRICAL SITE LAYOUT
DATE: 4/11/15

WATER PLANT No. 1 - PHASE II
ELECTRICAL SITE LAYOUT
DATE: 4/11/15

WATER PLANT No. 1 - PHASE II
ELECTRICAL SITE LAYOUT
DATE: 4/11/15

WATER PLANT No. 1 - PHASE II
ELECTRICAL SITE LAYOUT
DATE: 4/11/15

WATER PLANT No. 1 - PHASE II
ELECTRICAL SITE LAYOUT
DATE: 4/11/15

- NOTES:**
- See specifications for wire types.
 - Provide 400A main breaker with solid state trip (LS), 42 N.A.C. (50% rated, suitable for service disconnect).
 - Provide single phase NEMA 3R Passive Harmonic Filter with 400Amp 480V capacitor (10.44µF NPT101040P or approved eqpt).
 - Provide a NEMA 3R 500 amp VFD package rated for 50 HP single-phase input and three-phase output. (Eaton Model SXD75A1-4AN1 w/ Cap kit Model SPH-5-KT or approved eqpt). Package shall be UL listed.
 - Contractor shall provide Harmonic Study to verify filter Harmonic Study. Study shall be completed by drive manufacturer or their representative.

REMOTE WELL ONE-LINE DIAGRAM LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SYSTEM GROUND		SERVICE HEAD
	MOULDED CASE CIRCUIT BREAKER		MICRO-SWITCH - STARTER DISCONNECT WHEN MOTOR IS DE-ENERGIZED
	COMBINATION "MCP" MOTOR STARTER		ITEM LOCATED ON FACE OF AUTO SENSORY PANEL
	DUAL MOTOR STARTER, CLOSED		OLDER SOLENOID
	PHOTO ELECTRIC SWITCH		TRANSFORMER
	OFF-AUTO SWITCH		PHASE FAILURE RELAY
	ELAPSED TIME METER		TIME CLOCK
	LOCK-STOP STATION (MAINTAINED CONTACT)		FUSE
	SPACE HEATER (COLOR AS NOTED) (VFD)		JUNCTION BOX
	3 PHASE MOTOR (HORSEPOWER NOTED)		CURRENT TRANSFORMER
	NEUTRAL/GROUND PAD		SYSTEM MONITOR
	GROUND BUS		CAPACITOR
	SURGE PROTECTION DEVICE		VOLTAGE TRANSDUCER
	TIME CLOCK		THERMOSTAT

APPROVED:

DATE: 4/15/11

DEVELOPMENT COORDINATOR

WELLOW POINT M.U.D.
FORT BEND COUNTY, TEXAS

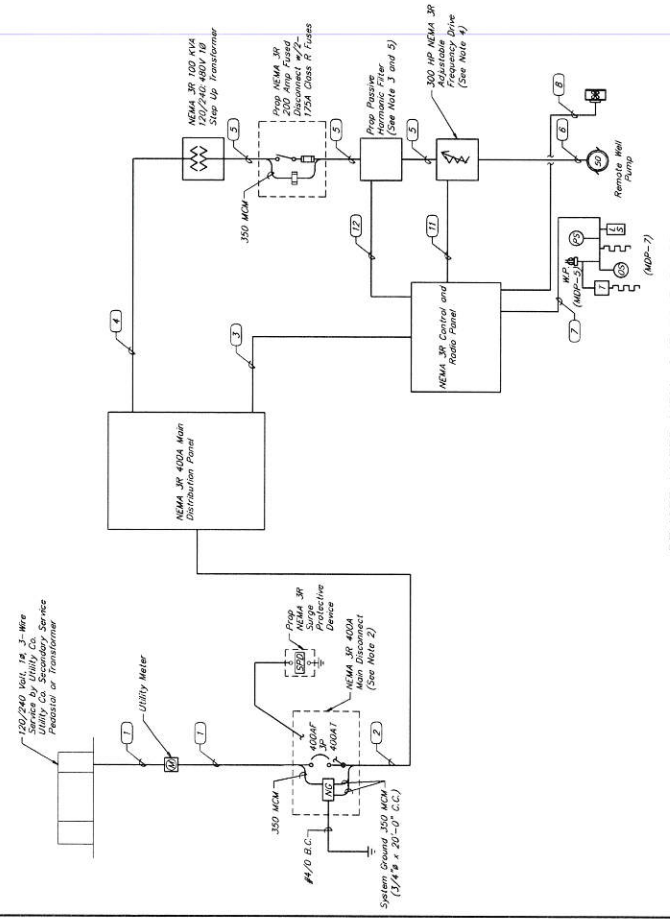
WATER PLANT No. 1 - PHASE II
& REMOTE WATER WELL

REMOTE WATER WELL
ONE-LINE DIAGRAM

J.C. JONES & CARTER, INC.
ENGINEERS-PLANNERS-SURVEYORS
4035 S. Highway 100, Houston, Texas 77057 (713) 774-3330

SCALE: AS SHOWN
DATE: FEBRUARY 2015
JOB NO.: 09333-02B1-03
SUBMITTED: _____
DRAWN BY: JAG
CHECKED BY: _____
DATE: _____
DESIGNED BY: _____
DATE: _____
PROJECT NO.: _____
SHEET NO. 28 OF 30

LOAD	AMPS	
	ØA	ØB
TRANSFORMER AND CONTROLS	70 KVA	291
25% OF LARGEST MOTOR	70	70
TOTAL LOAD	361	361
SERVICE AMPACITY Ø 80 VOLT	400	400
SPARE CAPACITY	(42 KVA)	39



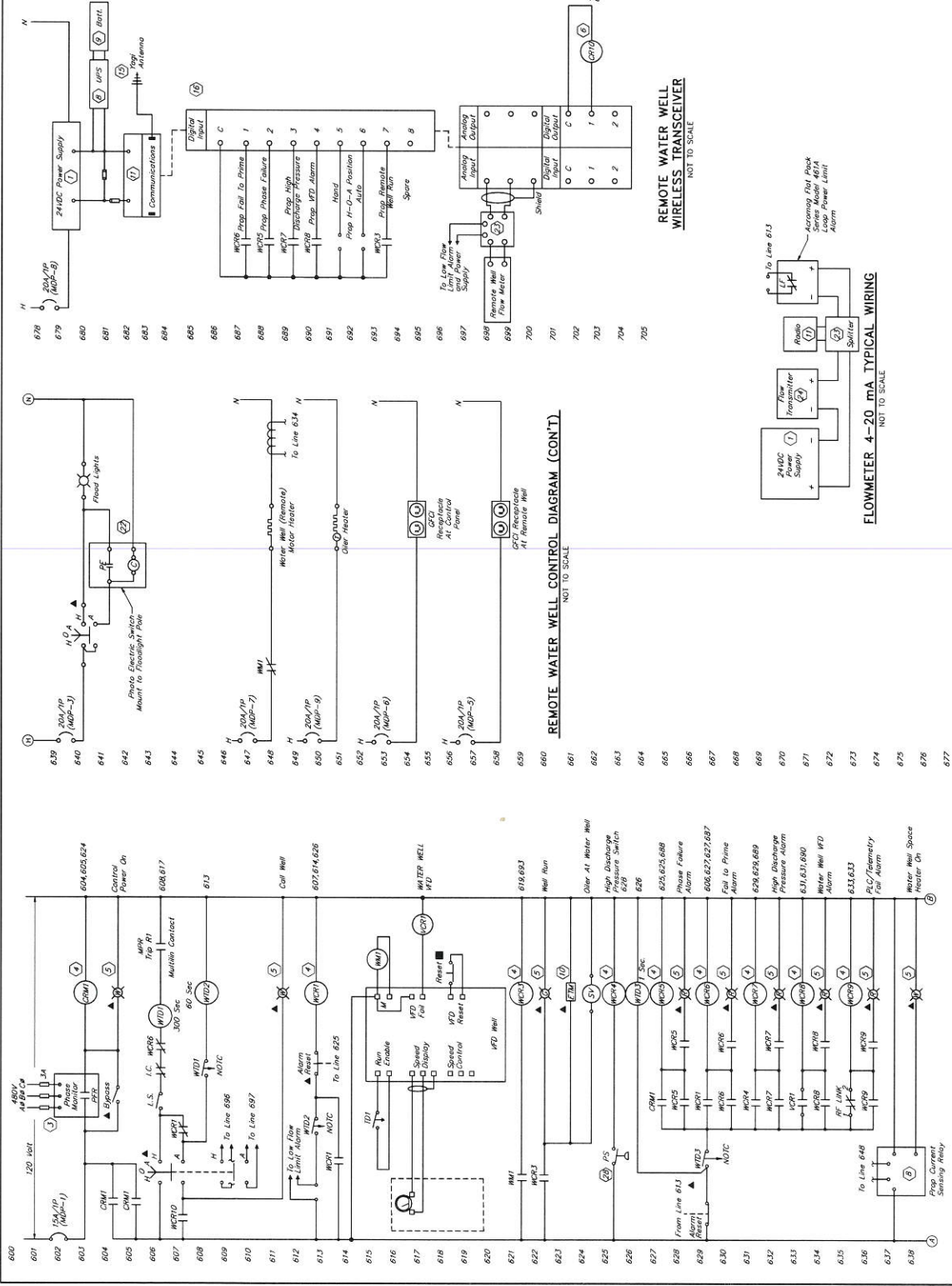
REMOTE WATER WELL ONE-LINE DIAGRAM
NOT TO SCALE

NOTES:

- Breakers 1/2/3/4 unless marked
- Adj. cuts. to bid. pml.
- Rock Mount, NEMA 3R

CKT. DESCRIPTION	WIRE LOAD/BRK.	PANEL MDP		WIRE SIZE (MCM)	WIRE TYPE	PHASE	WIRE SN	CMT. DESCRIPTION
		A	B					
CONTROLS	12 500	12	12	12	12	12	12	WELL PUMP FEEDER
FLOODLIGHTS	12 500	12	12	12	12	12	12	WELL PUMP FEEDER
RECEPTACLE AT WELL (GFCI)	12 100	12	12	12	12	12	12	RECEPTACLE AT CONTROL PANEL
RECEPTACLE AT WELL (HEATER)	12 100	12	12	12	12	12	12	RECEPTACLE AT CONTROL PANEL
REMOTE WELL OIL RESERVOIR HEATER	12 300	12	12	12	12	12	12	RADIO UPS
SPARE	20	20	20	20	20	20	20	SPARE
SPARE	20	20	20	20	20	20	20	SPARE
SPARE	20	20	20	20	20	20	20	SPARE
SPARE	20	20	20	20	20	20	20	SPARE

15075210100000 - WELLOW POINT WATER PLANT NO. 1 PHASE II (2015) - 02B1-03 - 03/20/15



REMOTE WATER WELL CONTROL DIAGRAM (CONT.)
NOT TO SCALE

REMOTE WATER WELL WIRELESS TRANSMITTER
NOT TO SCALE

FLOWMETER 4-20 mA TYPICAL WIRING
NOT TO SCALE

APPROVED: *[Signature]*
DATE: 4/1/15

WILLOW POINT M.U.D.
FORT BEND COUNTY, TEXAS

WATER PLANT No. 1 - PHASE II
& REMOTE WATER WELL
ELECTRICAL CONTROL
DIAGRAM

J.C. JONES & CARTER, INC.
ENGINEERS-PLANNERS-SURVEYORS
4333 S. GULF DR., SUITE 100 HOUSTON, TEXAS 77057-1330
PHONE: 281-291-1100 FAX: 281-291-1101

SCALE: AS SHOWN DRAWN BY: JEL
DATE: FEBRUARY, 2015 DWG. NO.:
JOB NO.: 2015-0181-02 SUPV. BY: JLD
SUBMITTED: 2/11/15 P.B. NO.:

REVISIONS

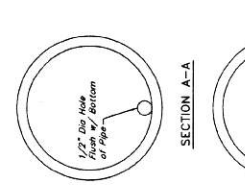
NO.	DATE	REVISIONS	BY

SHEET NO. 29 OF 30

REMOTE WATER WELL CONTROL DIAGRAM
NOT TO SCALE

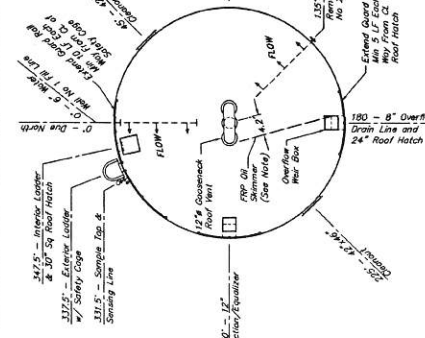
PLC: MITSUBISHI FX2N-16MR-001 (16 Channels) 24VDC/0.1A
MOTOR: 1/2 HP, 230V, 3-Phase, 60 Hz, 1725 RPM
PUMP: 1/2 HP, 230V, 3-Phase, 60 Hz, 1725 RPM
PRESSURE TRANSDUCER: MFC-100, 0-100 PSI, 4-20 mA
PHASE MONITOR: MCF-100, 240V, 3-Phase, 60 Hz

- NOTES:**
1. Drawings 2 and 3 along the 12'-0" length of the fill line to meet the water Counter Clockwise in Ground Storage Tank No. 2.
 2. Drill holes 1, 2 and 3 along the 12'-0" length of the fill line to meet the water Counter Clockwise in Ground Storage Tank No. 1.
 3. All drilled holes for 8" ID PVC pipe shall be spaced along the fill line. Remove all dirt from the hole.
 4. No water shall spray the GST roof.

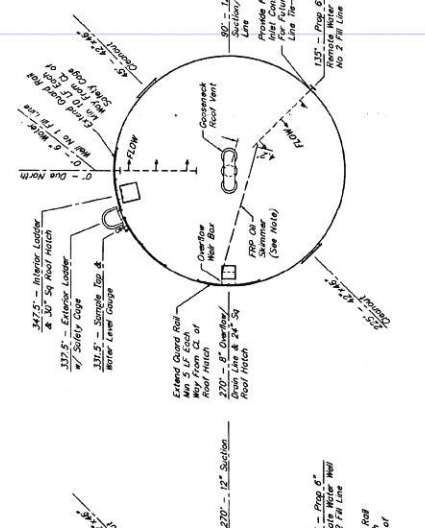


G.S.T. FILL LINE SECTIONS
NOT TO SCALE

OIL-SKIMMER NOTE:
The 12'-0" long FRP skimmer from GST roof to be used as an oil skimmer during overflow. Hang it such that it is 6" above and 3" below lip of overflow air box.

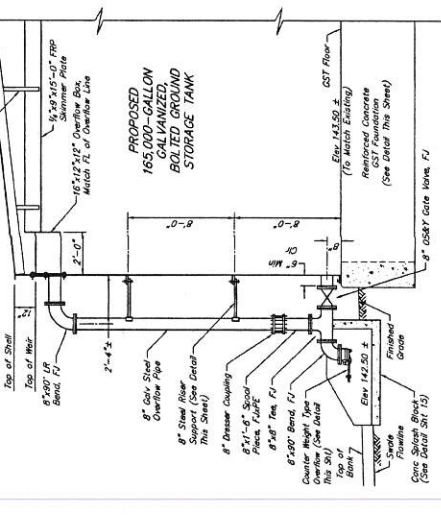


G.S.T. No. 2 (PROPOSED) ACCESSORY DETAIL - PLAN VIEW
NOT TO SCALE

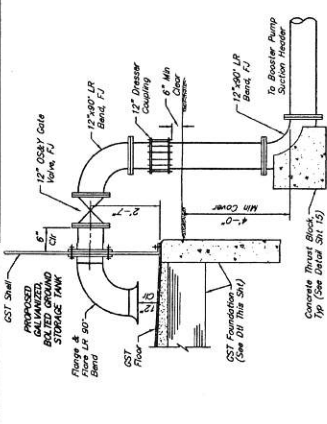


G.S.T. No. 1 (EXISTING) ACCESSORY DETAIL - PLAN VIEW
NOT TO SCALE

- GST CONSTRUCTION NOTES:**
1. GST piping and accessories are shown in profile views for detail purposes only. See drawings 10 and 11 for details of the GST piping and accessories.
 2. The 1,000 gpm GST fill rate is based on the existing 600 gpm Water No. 2 flow rate into the storage tank. The maximum rise of water elevation (WEL) is 1.0 ft. The top of the overflow well will be approx. 0.25 feet (0.25') or 1/4" above (1/4").

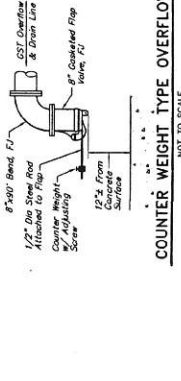


G.S.T. OVERFLOW/DRAIN LINE DETAIL
NOT TO SCALE

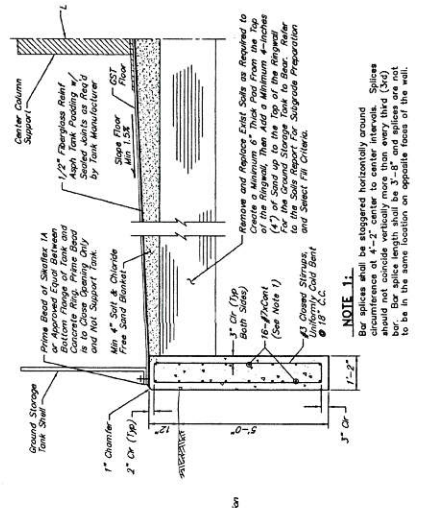


G.S.T. SUCTION/EQUALIZER LINE DETAIL
NOT TO SCALE

NOTE:
Weight of the counter weight shall be equal to the weight of the line. Three shall not be a gap below the top flange and tapping.



COUNTER WEIGHT TYPE OVERFLOW
NOT TO SCALE



GROUND STORAGE TANK FOUNDATION
NOT TO SCALE

APPROVED: *[Signature]*
DATE: 4/1/15

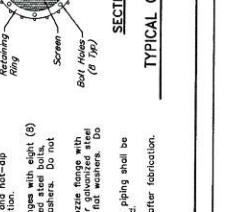
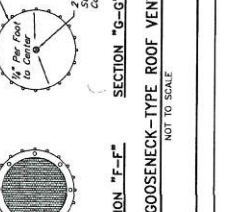
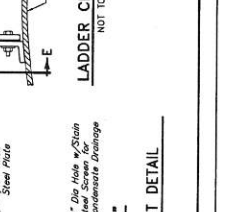
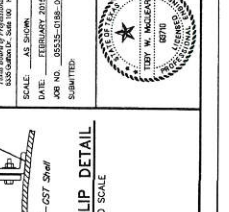
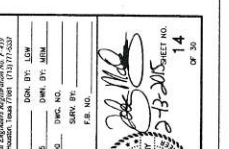
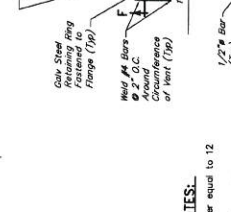
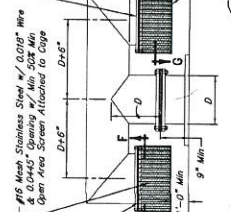
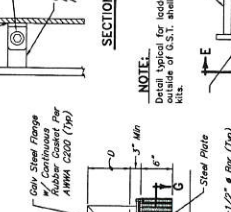
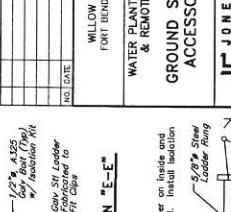
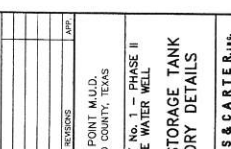
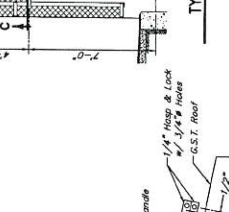
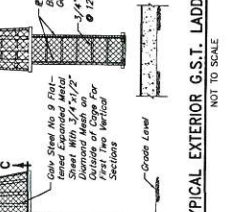
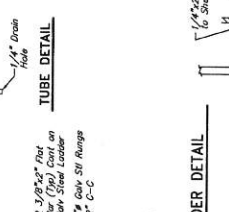
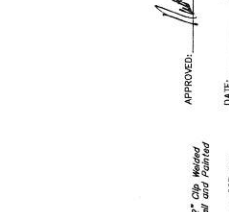
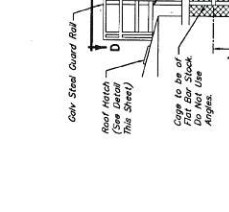
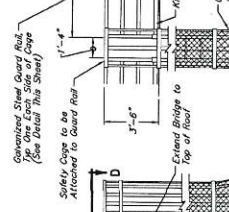
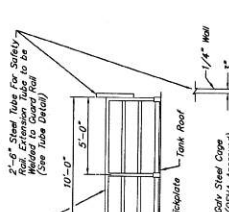
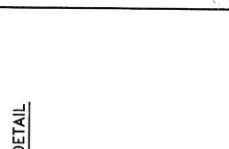
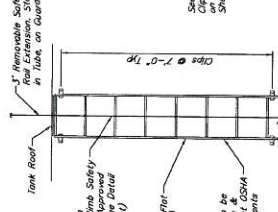
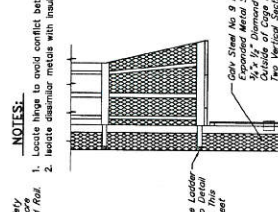
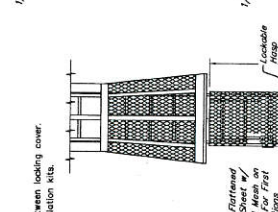
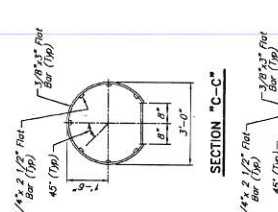
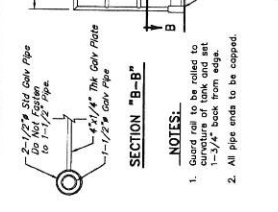
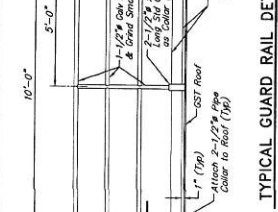
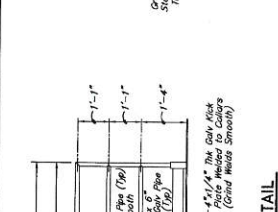
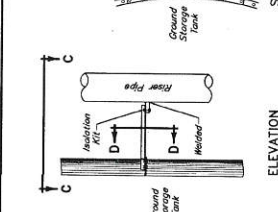
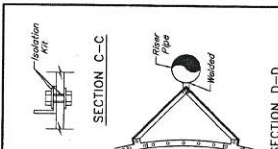
NO.	DATE	REVISION	APP.

WILLOW POINT M.U.D.,
FORT BEND COUNTY, TEXAS

**WATER PLANT No. 1 - PHASE II
GROUND STORAGE TANK
PIPING DETAILS**

J.C. JONES & CARTER
Civil & Mechanical Engineers
1500 West Loop South, Suite 1000, Houston, Texas 77027
Phone: 713-865-1100 Fax: 713-865-1101
www.jonesandcarter.com

SCALE: AS SHOWN
JOB NO. 15001-0005-00
DATE: FEBRUARY 2015
DWG. BY: JSA
OWN. BY: JSA
CHECKED BY: JSA
SUBMITTED: 2/11/15
F.I. NO.:
SHEET NO. 13
OF 30



NOTES:
1. Locate hinge to avoid conflict between locking cover.
2. Locate dissimilar metals with insulation kits.

NOTES:
1. Use removable safety ladders in tanks on guard rail.
2. Use aluminum safety rail, or approved equivalent (See Detail This Sheet).
3. 3/8" Flat Bar (Typ)
4. Leader to be attached to tank floor. Must meet OSHA requirements.
5. Aluminum 3/4" Rungs
6. G.S.T. Floor

ROOF HATCH NOTES:
1. The hinge dimensions are for the interior roof hatch (primary) and the smaller dimensions are for the exterior roof hatch (secondary).
2. Hatches are to be located so that they can be opened from both roof accessories.

NOTES:
1. Galvanized steel cover plate for external door shall be attached to the storage tank structure.
2. Contractor to provide an 1/8" gasket.
3. 1/4" The Galv. Steel Cleanout Cover Plate

NOTES:
1. Use removable safety ladders in tanks on guard rail.
2. Use aluminum safety rail, or approved equivalent (See Detail This Sheet).
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6. G.S.T. Floor

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6. G.S.T. Floor

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2. Use aluminum safety rail, or approved equivalent (See Detail This Sheet).
3. 3/8" Flat Bar (Typ)
4. Leader to be attached to tank floor. Must meet OSHA requirements.
5. Aluminum 3/4" Rungs
6. G.S.T. Floor

APPROVED: *[Signature]*
DATE: 4/8/15

WILLOW POINT M.U.D.
FORT BEND COUNTY, TEXAS

WATER PLANT No. 1 - PHASE II
& REMOTE WATER WELL
GROUND STORAGE TANK
ACCESSORY DETAILS

J.C. JONES & CARTER, INC.
1100 S. W. 12th St., Houston, Texas 77057
TEL: 281-291-1100
FAX: 281-291-1101

SCALE: AS SHOWN
DATE: 4/8/15
DRAWN BY: JMM
CHECKED BY: JMM
APPROVED BY: JMM

PROJECT NO. 14
SHEET NO. 14

PROJECT NO. 14
SHEET NO. 14

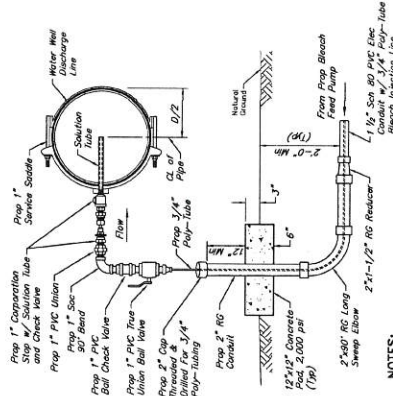
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SHEET NO. 14

PROJECT NO. 14
SHEET NO. 14

PROJECT NO. 14
SHEET NO. 14

PROJECT NO. 14
SHEET NO. 14

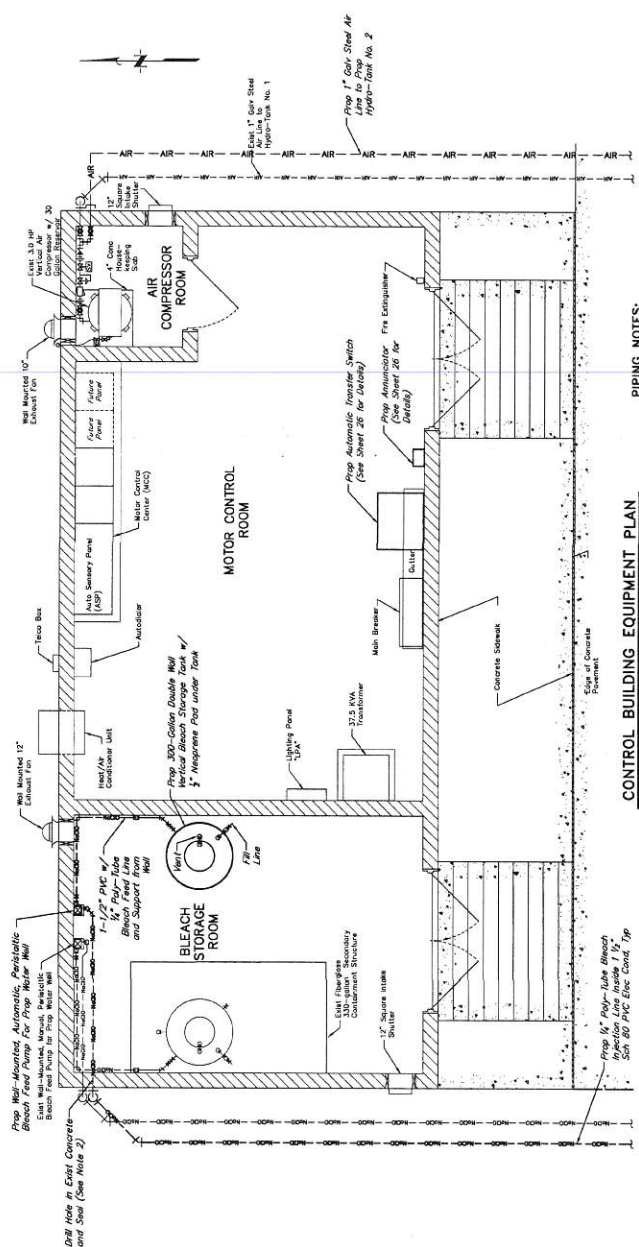
PROJECT NO. 14
SHEET NO. 14



NOTES:

1. All steel aboveground chemical injection lines exposed to weather are to be insulated.
2. 70\"/>

BLEACH (NaClO) INJECTION POINT DETAIL
NOT TO SCALE



CONTROL BUILDING EQUIPMENT PLAN
NOT TO SCALE

PIPING NOTES:

1. Contractor shall construct ALL POLY-TUBE solution lines enclosed in a 2\"/>

APPROVED: *[Signature]*
DEVELOPMENT COORDINATOR
DATE: 4/15

NO.	DATE	REVISIONS

WILLOW POINT M.U.D.
FORT BEND COUNTY, TEXAS

**WATER PLANT No. 1 - PHASE II
& REMOTE WATER WELL
CONTROL BUILDING
ACCESSORY DETAILS AND
GENERATOR DETAILS**

J. C. JONES & COMPANY
REGISTERED PROFESSIONAL ENGINEERS
500 W. WILLOW STREET, SUITE 100
WILLOW POINT, TEXAS 75077
PHONE: (972) 771-1200
FAX: (972) 771-1201
SCALE: AS SHOWN
DATE: 04/15/15
JOB NO. 100333-0100-00
SHEET NO. 16
SUBMITTED: 04/15/15
F.B. NO.

