

REVIEW BY FORT BEND COUNTY COMMISSIONERS COURT

On this 1st day of September, 2015, Commissioners Court came on to be heard and reviewed the accompanying notice of PANORAMA CMT (Desert Eagle, LLC dba Panorama CMT)
 Job Location 8755 1/2 HARLEM RD, RICHMOND, TX 77406
 Date 8/21/2015 Bond No. 4402161, Permit No. 2015-2660 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 Mejia, 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: 

 County Engineer

By: N/A

 Drainage District Engineer/Manager

Presented to Commissioners Court and approved.
 Recorded in Volume 9/1/15

 Minutes of Commissioners Court

By: 

 Deputy
RENEE MICHULKA

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

AUTHORIZED

BOND NO 4402161

THE STATE OF TEXAS

§

KNOW ALL MEN BY THESE PRESENTS:

COUNTY OF FORT BEND

§

THAT WE, Desert Eagle, LLC DBA: PANORAMA whose address is 922 Durham #110, Houston, TX 77007 Texas, hereinafter called the Principal, And SureTec Insurance Company, a Corporation existing under and by virtue of the laws of the state of Texas and authorized to do an indemnifying business in the state of Texas, and whose principal office is located at 9737 Great Hills Trail, Suite 320, Austin, TX 78759, whose officer residing in the State of Texas, authorized to accept service in all suits and actions brought whining said state is Texas and Whose address is 9737 Great Hills Trail, Suite 320, 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 Seven Thousand Five Hundred & 00/100 Dollars (\$ 7,500.00) current, lawful money of the United States of America, to be paid to said Robert E. Hebert, County Judge of Fort Bend County, Texas, or his successors in office, to which payment well and truly to be made and done, we, the undersigned, bind ourselves and each of us, our heirs, executors, administrators, successors, assigns, and legal representatives, jointly and severally, by these presents.

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

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

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

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

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

EXECUTED this 19th day of August, 2015

Desert Eagle, LLC DBA: PANORAMA
PRINCIPAL

BY

SureTec Insurance Company
SURETY

BY Dennis M. Descant, Jr. Attorney In Fact

SureTec Insurance Company

LIMITED POWER OF ATTORNEY

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

Deborah Bishop, Jeffrey L. Brady, Dennis M. Descant, Jr., Cheryl A. Sanders

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

Five Million and 00/100 Dollars (\$5,000,000.00)

and to bind the Company thereby as fully and to the same extent as if such bond were signed by the President, sealed with the corporate seal of the Company and duly attested by its Secretary, hereby ratifying and confirming all that the said Attorney-in-Fact may do in the premises. Said appointment shall continue in force until 12/31/2015 and is made under and by authority of the following resolutions of the Board of Directors of the SureTec Insurance Company:

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

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

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

In Witness Whereof, SURETEC INSURANCE COMPANY has caused these presents to be signed by its President, and its corporate seal to be hereto affixed this 21st day of March, A.D. 2013.

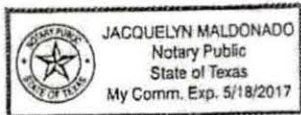
SURETEC INSURANCE COMPANY

By: [Signature]
John Knox Jr., President

State of Texas ss:
County of Harris



On this 21st day of March, A.D. 2013 before me personally came John Knox Jr., to me known, who, being by me duly sworn, did depose and say, that he resides in Houston, Texas, that he is President of SURETEC INSURANCE COMPANY, the company described in and which executed the above instrument; that he knows the seal of said Company; that the seal affixed to said instrument is such corporate seal; that it was so affixed by order of the Board of Directors of said Company; and that he signed his name thereto by like order.



[Signature]
Jacquelyn Maldonado, Notary Public
My commission expires May 18, 2017

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

Given under my hand and the seal of said Company at Houston, Texas this 19th day of August, 2015, A.D.

[Signature]
M. Brent Beaty, Assistant Secretary

Any instrument issued in excess of the penalty stated above is totally void and without any validity.
For verification of the authority of this power you may call (713) 812-0800 any business day between 8:00 am and 5:00 pm CST.

SureTec Insurance Company
THIS BOND RIDER CONTAINS IMPORTANT COVERAGE INFORMATION

Statutory Complaint Notice

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

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

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

PO Box 149104
Austin, TX 78714-9104
Fax#: 512-475-1771
Web: <http://www.tdi.state.tx.us>
Email: ConsumerProtection@tdi.state.tx.us

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

Terrorism Risks Exclusion

The Bond to which this Rider is attached does not provide coverage for, and the surety shall not be liable for, losses caused by acts of terrorism, riot, civil insurrection, or acts of war.

**Exclusion of Liability for
Mold, Mycotoxins, Fungi & Environmental Hazards**

The Bond to which this Rider is attached does not provide coverage for, and the surety thereon shall not be liable for, molds, living or dead fungi, bacteria, allergens, histamines, spores, hyphae, or mycotoxins, or their related products or parts, nor for any environmental hazards, bio-hazards, hazardous materials, environmental spills, contamination, or cleanup, nor the remediation thereof, nor the consequences to persons, property, or the performance of the bonded obligations, of the occurrence, existence, or appearance thereof.

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. 2015-2660

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 directions

 X c. Plans and specifications

 X (2) Bond:

 District Attorney, approval when applicable.

 Perpetual bond currently posted.

 No: _____

 Amount: _____

 X Performance bond submitted.

 No: 4402161

 Amount: \$7,500.00

 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

_____ 08/25/2015
Date

**CONSTRUCTION
OF
HARVEST GREEN LIFT STATION No. 1
FOR
GRAND PARKWAY 1358, LP
ON BEHALF OF
FORT BEND COUNTY M.U.D. No. 134D
AND
FORT BEND COUNTY M.M.D. No. 1
FORT BEND COUNTY, TEXAS**

INDEX OF DRAWINGS

<u>SHEET No.</u>	<u>TITLE</u>
1.	COVER SHEET & INDEX
2.	GENERAL NOTES
3.	P&ID LEGEND - SHEET 1 OF 2
4.	P&ID LEGEND - SHEET 2 OF 2
5.	LIFT STATION P&ID
6.	OVERALL PROJECT LAYOUT
7.	PROPOSED SITE LAYOUT
8.	DRAINAGE, PAVING AND GRADING
9.	PROPOSED LIFT STATION PLAN & PROFILE
10.	MISCELLANEOUS DETAILS - SHEET 1 OF 4
11.	MISCELLANEOUS DETAILS - SHEET 2 OF 4
12.	MISCELLANEOUS DETAILS - SHEET 3 OF 4
13.	MISCELLANEOUS DETAILS - SHEET 4 OF 4
14.	LIFT STATION STRUCTURAL PLAN & PROFILE
15.	LIFT STATION STRUCTURAL NOTES & TYPICAL DETAILS
16.	BULK TANK & GEN. PADS PLAN & PROFILE
17.	ELECTRICAL SITE LAYOUT
18.	ELECTRICAL ONE-LINE DIAGRAM
19.	ELECTRICAL CONTROL DIAGRAM - SHEET 1 OF 2
20.	ELECTRICAL CONTROL DIAGRAM - SHEET 2 OF 2
21.	ELECTRICAL DETAILS - SHEET 1 OF 2
22.	ELECTRICAL DETAILS - SHEET 2 OF 2
23.	STORM WATER POLLUTION PREVENTION PLAN



FORT BEND COUNTY KEY MAP: 566-C
Scale: 1" = 1 Mile
8755 1/2 HARLEM ROAD, RICHMOND, TX 77406

Contractor shall notify the City of Houston, Department of Public Works and Engineering, Office of the City Engineer, 48 hours before starting work on this project. Telephone No. (832-394-9098)

JANUARY 2015
JC JOB No. 05540-0890-00

JC JONES & CARTER, INC.
ENGINEERS • PLANNERS • SURVEYORS
Texas Board of Professional Engineers Registration No. F-439
6335 Guffin Dr., Suite 100 Houston, Texas 77061 (713) 777-5337

FORT BEND COUNTY ENGINEER

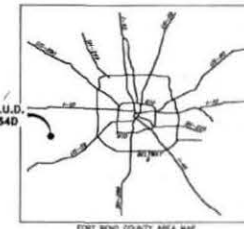
ENGINEER: *Richard K. Estelle*
RICHARD K. ESTELLE, P.E.

DATE: *2/20/15*
THESE SIGNATURES ARE VOID IF CONSTRUCTION HAS NOT COMMENCED IN ONE (1) YEAR FROM DATE OF APPROVAL.


APPROVED: *Richard K. Estelle*
ENGINEER COORDINATOR

DATE: *3/27/15*

F.B.C.M.U.D.
No. 134D



TEXAS811 NOTIFICATION SYSTEM
CALL BEFORE YOU DIG!!!
www.texas811.org
1-800-368-6377

 BETHANY A. MILLER 11023 FORT BEND COUNTY ENGINEER	
SURVEYED BY: <i>Bethany Miller</i> FB NO.: <small>NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES</small>	
CITY OF HOUSTON DEPARTMENT OF PUBLIC WORKS AND ENGINEERING	
ROADWAY: <i>2-5-15</i> WADWAYS: <i>2-5-15</i> SEWER: <i>2-5-15</i> STREET & BRIDGE:	DATE & TIMEPOSTION: STORM WATER QUALITY: INCLUDED: FOR CITY OF HOUSTON USE ONLY CITY ENG. NO.
CITY ENGINEER: DIRECTOR OF PUBLIC WORKS AND ENGINEERING: SHEET No: <i>1 of 23</i>	58618 CITY ENGINEER

ILMS No. 15003787
C.O.H. LOG No. 15-0042
CPC 101 REF. No. 2014-2319

Approved for Construction
4/20/15 BANA

JC JONES & CARTER, INC. ENGINEERS-PLANNERS-SURVEYORS FORT BEND COUNTY M.U.D. No. 134D - HARVEST GREEN LIFT STATION No. 1

GENERAL NOTES:

- Prior to bidding the project, the Contractor shall inspect the lift station site and satisfy itself that above and below ground conditions of the site are acceptable for construction. Contractor shall note any visible conflicts not shown in the drawings and bring to the attention of the Engineer prior to bidding the project. Should a construction conflict occur due to a visible conflict apparent at the time of bidding, all construction and engineering costs associated with the change shall be borne by the Contractor.
- This project is within the City of Houston E.T.J. and Fort Bend County, Texas.
- Contractor shall be responsible for obtaining all applicable city, county, state, and federal permits. Contractor to obtain all permits required by regulation of Texas for floodplain management prior to work starting construction.
- 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. Conflicts which result due to negligence by the Contractor to locate, horizontally and vertically, existing utilities which are shown on the construction drawings, or which the Contractor has been given notice or has knowledge, shall 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.
- Contractor is to contact Dig Tex at 1 (800) 645-6005 for location of existing facilities that may not be shown on the plans at least 48 hours prior to commencement of any construction activities.
- Contractor shall be responsible for protecting, maintaining, and restoring all existing facilities or any off-site areas affected by this construction project to existing or better condition, unless otherwise noted, at no additional cost to the Owner.
- Contractor to obtain all permits required by regulation of Fort Bend County, Texas, and Fort Bend County Drainage District for Road plan management.
- Contractor shall comply with O.S.H.A. regulations and Texas state law concerning trench safety systems.
- Contractor shall contact Jones & Carter, Inc., Mr. Albert Lazzano, P.E. at (832) 913-4000 or minimum of 48-hours prior to starting any work.
- During construction, the Contractor shall maintain adequate drainage and safe access to adjacent properties, regardless of the weather conditions. Do not obstruct roadways, drainage, sidewalks, or easements adjacent to the construction area.
- Adequate drainage shall be maintained at all times during construction, and any drainage ditch or structure disturbed during construction shall be restored to the satisfaction of the issuing authority. All construction storm runoff shall comply with the "National Pollutant Discharge Elimination System" (NPDES) requirements, and all Fort Bend "Drainage District" requirements. Best management practices shall be followed for SWPPP.
- Should soft unstable areas appear during the course of grading, the Contractor shall remove unstable material as directed by the Engineer. The Contractor shall replace this with a suitable material compacted as required per specifications. (Limited to 18" of cost to the Owner.)
- Final grade all areas of the site as shown on grading plan after completion of all other construction activities. Grade all areas of the site smooth to drain. Thoroughly clean site to remove all construction debris such as concrete rubble, rebar, etc. Hydrant/utl areas which were disturbed during construction.
- All waste materials shall be removed from the site and properly disposed of by the Contractor.
- Provide isolation joints between all proposed sidewalks and all slabs, structures, and pavements. Also provide isolation joints where slabs penetrate concrete slabs or pavement. Isolation joints shall consist of asphalt impregnated fiberboard and joint sealant material.
- Provide protective coatings for the equipment and piping in accordance with Section 09221 of the specifications. Provide other protective coatings, such as hot-dip galvanizing, as indicated on the drawings and in other sections of the specifications, touch up damaged areas of galvanized finishes with a zinc rich paint (85 percent zinc minimum) intended for the application.
- The Contractor is responsible for providing red (red drawings) and O&M manuals at the completion of this project, as per the specifications, prior to final payment.
- Electrical sheets are for electrical work only. Structural and mechanical items shown on the electrical sheets are general in nature and should a conflict exist, the structural and mechanical sheets will control. Structural sheets are for structural work only. Mechanical and existing electrical items shown on the structural sheets are general in nature and should a conflict exist, the mechanical and electrical sheets will control.
- Contractor to follow construction details in drawings deviate from City of Houston standards.
- Install check valves so that the weighted lever position is approximately 45 degrees below the valve's horizontal center line in the closed position, and approximately 45 degrees above the valve's horizontal center line in the full open position.
- All gaskets, glands, packing and resilient valve seats on piping shall be protected for service at 250 psi.
- All items in the wet well shall be accessible from the hatch cover. Contractor to confirm the size and location of the wet well openings per selected hatch and pump manufacturers' requirements (minimum size shown).
- All riser piping and force main header piping shall be ductile iron, class 3 with a minimum working pressure of 150 psi plus a surge pressure of 100 psi and pressure tight joints.
- Sanitary facility clearances to potable water facilities shall follow the latest rules and regulations of the Texas Commission on Environmental Quality.
- Unless otherwise shown on the construction drawings, all pipe centered in walls shall have a wall range. All wall ranges shall be cast-in-place with structural concrete or grouted in block-outs with non-shrink grout. All block-outs for through-wall piping shall be keyed, unless otherwise noted.
- Contractor shall notify Fort Bend County Engineering Department 48 hours prior to commencing construction and 48 hours prior to any paving operations at construction@fortbendcounty.gov.
- Contractor is responsible for obtaining all permits required from Fort Bend County prior to commencing construction at any improvements within county road right-of-way at construction@fortbendcounty.gov.
- All paving improvements shall be constructed in accordance with Fort Bend County rules (see Fort Bend County Drainage District Standards).

PIPING NOTES:

- Locations of all existing piping were determined from available existing information. The Contractor shall verify locations and features of existing piping upon mobilization and prior to beginning construction. Extra work required to meet existing conditions shall be at no cost to the Owner.
- All piping shall be ductile iron pipe (DIP), unless otherwise noted on the drawings or in the specifications. Provide flanged joint (F/J, or F.J.) pipe and fittings on aboveground pipe, first underground fitting, and an underground pipe as shown. Provide restrained joint push-on (P.O. restrained) pipe and fittings for below ground pipe underneath concrete structures. No restrained joints are allowed unless specifically called for on plans. All other underground D.I.P. shall have pressure type push-on (P.O.) joints and fittings unless otherwise shown. Use polywrap on all underground D.I.P. and coat all aboveground D.I.P. in accordance with Section 09221 of the specifications.
- Bed and backfill underground piping as shown in the bedding details on sheet 11. Process lines shall have class "C" pipe bedding, sanitary sewers shall have class "A&B" bedding. Process lines shall be defined as all lines other than gravity sanitary sewers and storm sewers and miscellaneous small diameter piping. For pipe below structures, structural backfill requirements shall control over piping backfill requirements.
- All underground nuts and bolts must be 304 stainless steel. All aboveground nuts and bolts must be 304 stainless steel. All disinfectant pipe, but, nut or structure material must be treated with isolation kits.
- Polyvinyl chloride (P.V.C.) pipe two inches (2") in diameter and smaller shall be Schedule 40. Three-inch (3") and four-inch (4") diameter pipe shall be Schedule 40. All P.V.C. pipe larger than four-inches (4") in diameter shall be Schedule 40B shall be DR-18, Class 150 conforming to AWWA C-900. All P.V.C. pipe 18-inches (18") and larger shall be DR-21, Class 150 conforming to AWWA C-900.

▲ All reinforced concrete pipe (R.C.P.) shall be Class III ASTM C-76 with ASTM C-453 rubber gasket joints.

- All steel pipe shall be Schedule 40, hot-dip galvanized unless otherwise noted on the drawings or in the specifications. All flanged HCO steel pipe greater than four-inches (4") in diameter shall be also fitted after fabrication.
- All proposed lines shall be printed as indicated on the drawings and in accordance with Sections 09221 and 15190 of the specifications, including color code, flow direction and process labels. Apply labels in a prominent location as directed by the Engineer. As a general rule, labels shall be provided for each pipe where it enters or exits a structure or pump.
- All non-metallic underground pipe shall be installed with tracer tape.
- Contractor shall maintain a six-inch (6") working clearance between all R.C.P. pipe conditions and any obstruction (such as structures, walls, sills, walls or equipment).
- All piping lengths shown on call-outs on plan view layouts are for general reference only and must be confirmed by the Contractor.
- All proposed and existing pipe running across walkways shall be painted with black and safety yellow stripes two-inches (2") wide, and labeled "Watch Your Step" in white letters from both directions of pipe crossing.

SHORING AND TRENCH SAFETY:

- Contractor shall include cost of shoring in bid price for trench safety.
- 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.

SIGNAGE NOTES:

- Provide aluminum warning signs which read "Danger, High Voltage" and "No Trespassing" - install these signs on the existing entrance gate. Minimum size is 8"X10" and all signs shall be in English and Spanish. Provide an aluminum sign approximately 12" x 24" on the front gate which reads "Harvest Green Lift Station No. 1", and Lift Station address.
- 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 vertical discharge pipes of the pumps and on the concrete top slab of the lift station adjacent to the hatch opening. The numbers shall consist of one coat of black polyurethane paint applied with a stencil. Number height shall be at least four-inches (4").

SANITARY SEWER CONSTRUCTION NOTES:

- Maintain 12-inch minimum clearance between all sanitary sewers, storm sewers and culverts unless otherwise noted.
- All sewer lines shall be air-tested in accordance with the contract specification.
- For all PVC pipe, use manhole watertight gasket and clamp assembly at manhole connections. (No separate gyp).
- Sanitary sewer manholes do not need to be sealed unless otherwise noted. All air-tight manholes shall not be sealed.
- Manhole rims are to be set at the elevations shown on the plans initially. After paving and grading is completed, rims are to be adjusted to four (4) to six (6) inches above final grade and back-filled with dirt to provide drainage away from the manhole. Manholes located within proposed pavement shall have a rim elevation equal to the road elevation.
- If we sand is encountered in the field, use special bedding per City of Houston DWG 02317-01, 02317-02, and as directed by the Engineer.
- Waterline / sanitary manhole and sanitary sewer separation. All sanitary sewer facilities and potable waterlines must be installed so as to provide a minimum of nine feet horizontal clearance between them. Where the nine foot separation distance cannot be obtained, follow "Protection Requirements of Water Line - Sanitary Sewer Crossings" on sheet 12.

CONCRETE CONSTRUCTION NOTES:

- Forms may be removed after concrete has reached its initial set, but no sooner than 24 hours after the pour. Curing compounds must be applied immediately. See specification 5300 for more details.
- All construction joints must have the formwork removed to expose bare aggregate by such hammering or other approved methods before starting the next pour.
- The Contractor shall provide concrete formwork that is free of substantial leakage and wetting of exterior surfaces.

GRADING NOTES:

- Areas that are to receive fill will be stripped to a depth of three-inches (3"). Stripings shall be stock piled and then spread evenly on surface of fill areas.
- Fill shall be placed in maximum loose fills of six-inches (6") or less and compacted to 95% of maximum density of minus three percent (-3%) to plus five percent (+5%) of moisture content as determined by AASHTO Test Method 1-99.
- All existing drainage swales in fill areas shall be cleaned and mowed of any vegetation, and then filled as shown with excavation material in maximum eight-inch (8") loose lifts, and compacted to 90% Proctor density per AASHTO Standard Method 1-99.

STANDARD CITY OF HOUSTON CONSTRUCTION NOTES:

- Wastewater collection systems, water, parking, traffic signals, drainage systems and all groundwater point facilities shall be constructed in accordance with the most current editions of the following City of Houston documents. These documents are: "STANDARD CONSTRUCTION SPECIFICATIONS" (most recent issue November 2011) and "STANDARD CONSTRUCTION DETAILS FOR WASTEWATER COLLECTION SYSTEMS, WATER LINE, STORAGE AND STREET PAVING" (most recent issue November 2005) with all subsequent amendments added thereto unless otherwise noted and approved on these plans. The design must agree with the minimum standards established in the "INFRASTRUCTURE DESIGN MANUAL" (most recent issue Jan 2011). Note that plan signatures and letters of capacity availability for storm, wastewater and water expire after one (1) year and the latest editions of design rules, specifications, standard details and manuals shall govern as of the dates for resplicing. It is the responsibility of the Contractor to verify that he/she has the most recent editions as of the date of construction. These documents may be obtained from the City of Houston Department of Public Works, 611 Walker, Houston, Texas.
- The Contractor shall be fully responsible for any and all damage to existing public utility lines, including but not limited to, power, water lines, wastewater collection systems and storm sewers during construction. All damages shall be repaired in accordance with City of Houston "Standard Construction Specifications" with latest amendments thereto with no cost to the public.
- The Contractor shall notify City of Houston Department of Public Works and Engineering by both phone and registered letter 48 hours prior to construction at 832-594-8098.

STORM SEWER CONSTRUCTION NOTES:

- Storm sewer shall be reinforced concrete pipe (C-76, Class III), and shall be installed, bedded, and backfilled in accordance with the City of Houston Drawing Nos. 02317-02, 02317-03, 02317-05, 02314-06, and 02317-07 (Oct 2002) as applicable unless otherwise shown on the drawings.
- All storm sewer construction in shallow easement shall be R.C.P. (C-76, Class III) and shall be bedded in accordance with the City of Houston Drawing Nos. 02317-02, 02317-03, 02317-05, 02317-06, and 02317-07 as applicable.
- All sewer under proposed or future pavement and to a point one (1) foot back of all proposed or future curbs shall be backfilled with 1-1/2 inch coarse sand/C.V. stabilized sand to within one (1) foot of subgrade. The remaining depth of trench shall be backfilled with suitable work material.
- All trench backfills shall be in 8" lifts, with tests taken at 100 foot intervals on each lift, and mechanically compacted to a density of not less than 95% of the maximum dry density as determined by the standard proctor compaction test (ASTM D-698/AASHTO 199).
- Circular and elliptical reinforced concrete pipe shall be installed using rubber gasket joints conforming to ASTM C043 and ASTM C877 respectively.
- All storm sewer pipes and inlet leads shall be 24-inch and larger R.C.P. (C-76, Class III).
- All proposed pipe stub-outs from manholes and inlets are to be plugged with 6" brick walls unless otherwise noted.
- Contractor shall provide 12" minimum clearance at storm sewer and water line crossings.
- Adjust manhole covers to grade conforming to requirements of section 02086-adjusting manholes, inlets and valve boxes to grade.
- The Contractor shall be responsible for protecting, maintaining, and restoring any back slope drainage system disturbed as a result of his work.
- All ditches shall be regraded to proposed elevations to insure proper drainage. All outfalls shall be properly backfilled and compacted. All disturbed area shall be regraded, seeded, and fertilized.
- All driveways will be located to avoid existing curb inlet structures.

WATERLINE CONSTRUCTION NOTES:

- All four (4) inch through twelve (12) waterlines to be class 150 (DR-18), PVC (AWWA C-900), or ductile iron as specified. Asbestos cement waterlines will not be approved for this project.
- Twelve (12) inch or smaller waterlines shall have a minimum cover of four (4) feet below top of curb. The contractor shall uniformly vary the elevation of the waterline from the depth shown on the plans to facilitate conflict avoidance and maintain clearances. Maximum deflection of joints shall not exceed the pipe manufacturer's recommendations.
- Waterline fittings shall be ductile iron unless otherwise noted.
- Waterlines shall be constructed so that all crosses and tees will not be located under proposed or future paving.
- Valves shall be located opposite property corners except as shown on plans.
- Maintain 12-inch (12") minimum clearance between all waterlines, storm sewers and culverts unless otherwise noted.
- For special waterline / sanitary sewer clearances, see sanitary sewer construction notes.
- Waterlines shall be back sand-bedded and backfilled in accordance with the latest edition of City of Houston specifications and details.
- Sanitary precautions must be taken during waterline construction, as called for by AWWA standards, precautions include keeping pipe clean and capping, or otherwise effectively covering open pipe ends to exclude insects, animals, or other sources of contamination from unfiltered pipe lines at times when construction is not in progress.
- All newly installed pipes, coatings, and related products shall conform to American National Standards Institute / National Sanitation Foundation (ANSI / NSF) standards and must be certified by an organization accredited by ANSI.
- Do not include service connections in this contract. However, when constructed, they will be in accordance with the latest edition of City of Houston specifications.
- All flushing valves and valve boxes shall be adjusted to finish grade after paving is complete. Flushing valves shall be turned to face street.
- Provide gate valve extension stem per City of Houston and/or as directed by the Engineer.

LIFT STATION START-UP AND COORDINATION NOTES:

- Contractor shall notify Engineer of and be present for the start-up of all new equipment and shall be responsible for proper start-up procedures as recommended by the manufacturer. A manufacturer representative shall be present for start-up or pre-start-up inspection as required by the specifications and recommended by the manufacturer of such equipment items. No equipment will qualify for substantial completion until Contractor meets all conditions listed in the Special Conditions including submitting start-up reports to the Engineer.

ETJ DETENTION PLANS INFORMATION

- Storm Water Detention Plans is provided in Drainage and Detention Analysis for Harvest Green Lift Station No. 1. Approved for Addition No. 1. Approved for Building. (See notes on drawings for details.)
- Storm Water Drainage Design Report Report Title: Drainage and Detention Analysis for Harvest Green Lift Station No. 1. Date: January 14, 2015. Engineering Firm: Jones & Carter. Date Signed and Approved By: City of Houston. October 8, 2014 (LMS No. 14094213, COH Log No. 14-1336).
- Increased Impervious Cover = 0.1292 acre. Detention Rate Required = 0.57 acre-feet/acre. Detention Rate Provided = 0.57 acre-feet/acre.

*Based on the Drainage Report entitled Drainage and Detention Analysis for Harvest Green (Oyster Creek Watershed), dated and approved January 14, 2015, the 0.1292-acre lift station site was included in Drainage Area OC-30. As shown in the drainage analysis, OC-30 was assumed to be of 50% impervious and included the construction of the lift station site in Phase I. Per the approved Study, the Phase I and Ultimate Conditions for OC-30 were designed to release fully developed flows into Oyster Creek. This will not cause an impact to Oyster Creek because the Phase I detention was designed reduce the flow into Oyster Creek by over detaining upstream of the OC-30 and the lift station site. For Phase I, the development is providing 167.9 acre-feet of detention volume for a detention rate of 0.57 acre-feet per acre.

Bethany Ormish

 DEVELOPMENT COORDINATOR

FORT BEND COUNTY MUD NO. 1340
 FORT BEND COUNTY, TEXAS

J.C. JONES & CARTER, INC.
 ENGINEERS-PLANNERS-SURVEYORS
 Texas Board of Professional Engineers Registration No. F-419
 4040 Dallas St. Suite 1000, Houston, Texas 77027 (713) 771-0339

HARVEST GREEN LIFT STATION NO. 1

GENERAL NOTES

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

CITY OF HOUSTON
 DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

FILE NO. 15-0000-0000
 JOB NO. 201401-0000

DATE: JANUARY 2015
 DESIGNED BY: MFM
 DRAWN BY: JAW

SCALE: AS SHOWN

SHEET NO. 2 OF 23

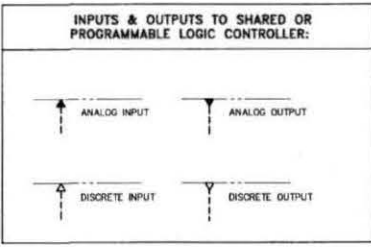
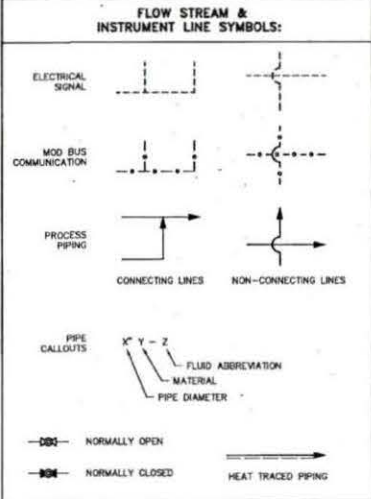
FOR CITY OF HOUSTON USE ONLY
 CITY CHECK NO.
 53615
 CITY ENGINEER SIGNATURE

INSTRUMENT IDENTIFICATION LETTERS:	
AI	AMPERAGE INDICATOR
AIT	ANALYTICAL INDICATING TRANSMITTER
CGE	CHLORINE GAS SENSOR ELEMENT
DOE	DISSOLVED OXYGEN SENSOR ELEMENT
DOIT	DISSOLVED OXYGEN INDICATING TRANSMITTER
ES	EMERGENCY STOP
ETM	ELAPSED TIME METER
FE	FLOW RATE SENSOR ELEMENT
FI	FLOW RATE INDICATOR
FIC	FLOW RATE INDICATING CONTROLLER
FIT	FLOW RATE INDICATING TRANSMITTER
FS	FLOW SWITCH
FSL	FLOW SWITCH LOW
HMS	HAND MOMENTARY SWITCH
HS	HAND SWITCH
KS	TIMED SWITCH
LC	LEVEL CONTROLLER
LE	LEVEL SENSOR ELEMENT
LI	LEVEL INDICATOR
LTI	LEVEL INDICATING TRANSMITTER
LKS	LOCK STOP
LS	LEVEL SWITCH
LSH	LEVEL SWITCH HIGH
LSL	LEVEL SWITCH LOW
LT	LEVEL TRANSMITTER
MF	MOTOR FAILURE
MP	MOMENTARY PUSH BUTTON
MS	MOTORIZED SWITCH
PAH	PRESSURE ALARM HIGH
PE	PRESSURE ELEMENT
PI	PRESSURE INDICATOR
PII	PRESSURE INDICATING TRANSMITTER
PR	PROBE RELAY
PS	PRESSURE SWITCH
PSH	PRESSURE SWITCH HIGH
PSL	PRESSURE SWITCH LOW
SS	SIGNAL SPLITTER
TE	TEMPERATURE ELEMENT
TF	TEMPERATURE FAILURE
TI	TEMPERATURE INDICATOR
TS	TEMPERATURE SENSOR
VI	VACUUM INDICATOR
VS	VACUUM SWITCH
WE	WEIGHT ELEMENT
WI	WEIGHT INDICATOR
YF	SEAL FAILURE
YI	STATE OPENED
YI	STATE INDICATED
YI	STATE INDICATING TRANSMITTER
YL	INDICATING LIGHT
YS	STATE CLOSED

EQUIPMENT ABBREVIATIONS:	
3W	THREE WAY VALVE
4W	FOUR WAY VALVE
ACK	AIR CHECK VALVE
ADV	AUTOMATIC DRAIN VALVE
AL	AIR LIFT PUMP
AV	ANGLE VALVE
ARV	ANGLE RELEASE VALVE
ASV	AUTOMATIC SWITCHOVER VALVE
AVV	AIR & VACUUM VALVE
BCV	BALL CHECK VALVE
BFP	BACKFLOW PREVENTER
BFV	BUTTERFLY VALVE
BS	BASKET STRAINER
BV	BALL VALVE
CKV	CHECK VALVE
CS	CORPORATION STOP
DA	DECANT ARM
DBS	DUPLEX BASKET STRAINER
DCV	DOUBLE CHECK VALVE
DI	DUCTILE IRON PIPE
DS	DIAPHRAGM SEAL
ECPV	ECCENTRIC PLUG VALVE
EXPBR	BACKPRESSURE REGULATOR WITH EXTERNAL PRESSURE TAP
FCV	FLOW CONTROL VALVE
GCV	GATE CHECK VALVE
GLB	GLOBE VALVE
GS	GALVANIZED STEEL
GST	GROUND STORAGE TANK
GV	GATE VALVE
HB	HOSE BIBB
HPR	HORIZONTAL PRESSURE RELIEF VALVE
HPT	HYDRO-PNEUMATIC TANK
IJ	INJECTOR
IP	INDUCTION PUMP
IRP	INTERNAL RECYCLE PUMP
ISV	ISOLATION VALVE
J	JOCKEY PUMP
MIX	MIXER
MUD	MUD VALVE
NDV	NEEDLE VALVE
PCOPR	PUMP CONTROL BACKPRESSURE VALVE
PD	PULSTATION DAMPENER
PET	POLYETHYLENE TUBING
PRPS	PRESSURE REDUCING PRESSURE SUSTAINING VALVE
PRR	PRESSURE REDUCING REGULATOR
PV	PLUG VALVE
RLP	ROTARY LOBE PUMP
RM	ROTAMETER
SAAV	SINGLE ACTING ALTITUDE VALVE
SC	SECONDARY CLARIFIER
SCK	SILENT CHECK VALVE
SCPR	SELF-CONTAINED PRESSURE REGULATOR
SCBPR	SELF-CONTAINED BACKPRESSURE REGULATOR
SLDAR	SLUDGE AIR RELEASE VALVE
SLDAV	SLUDGE AIR AND VACUUM VALVE
SLG	SLUDGE GRINDER PUMP
SP	SUBMERSIBLE PUMP
STP	SLUDGE TRANSFER PUMP
SV	SOLENOID VALVE
SWC	SWING CHECK VALVE
TAL	TRANSFER AIR LIFT
TV	TELESCOPIC VALVE
VR	VACUUM REGULATOR
WS	WYE STRAINER
WSP	WELDED STEEL PIPE

FLUID ABBREVIATIONS:	
A	AIR
CE	CLARIFIED EFFLUENT
CGV	CHLORINE GAS VACUUM
CS	CHLORINE SOLUTION
DL	DRAIN LINE
DS	DIGESTED SLUDGE
DW	DISTRIBUTION WATER
FE	FINAL EFFLUENT
FM	FORCE MAIN
GW	GROUND WATER
R	INTERNAL RECYCLE
LAS	LIQUID AMMONIUM SULFATE
MH	MAGNESIUM HYDROXIDE
ML	MIXED LIQUOR
NPW	NON-POTABLE WATER
POLY	POLYETHYLENE
PW	POTABLE WATER
RAS	RETURN ACTIVATED SLUDGE
SA	SAMPLE
SB	SODIUM BISULFITE
SC	SCUM
SE	SECONDARY EFFLUENT
SH	SODIUM HYPOCHLORITE (BLEACH)
SI	SCREENED INFLUENT
SN	SUPERNATE
SW	SURFACE WATER
WAS	WASTE ACTIVATED SLUDGE

GENERAL ABBREVIATIONS:	
DO	DISSOLVED OXYGEN
EL	ELEVATION
FAA	FREE AVAILABLE AMMONIA
FF	FINISHED FLOOR
FT	FEET
FT/S	FEET PER SECOND
GAL	GALLONS
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HOA	HAND OFF AUTO
HP	HORSE POWER
HR	HOUR
LCP	LOCAL CONTROL PANEL
LF	LINEAR FEET
M	MILLIAMPS
MONO	MONOCHLORAMINE
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
ORP	OXYGENATION REDUCTION POTENTIAL
SST	STAINLESS STEEL
TAA	TOTAL AVAILABLE AMMONIA
TAC	TOTAL AVAILABLE CHLORINE
TDH	TOTAL DYNAMIC HEAD
TOB	TOP OF BARRIETTE
TOS	TOP OF SLAB
TOW	TOP OF WALL
V	VOLTS



INSTRUMENT & FUNCTION SYMBOLS:

	ACCESSIBLE SHARED DISPLAY		SPACE HEATER
	FACE OF PANEL INSTRUMENT		MOISTURE SENSOR
	FIELD MOUNTED INSTRUMENT		TEMPERATURE SENSOR
	INTERIOR OF PANEL INSTRUMENT		VARIABLE FREQUENCY DRIVE
	INTERLOCK LOGIC		LIMIT SWITCH ALARM
	LIGHT: B=BLUE, G=GREEN, R=RED, W=WHITE, Y=YELLOW		LIMIT SWITCH SHUTDOWN
	INSTRUMENTS SHARING COMMON HOUSING		FLOW VERIFICATION SENSOR

NOTE:
 For electrical & instrumentation only.

APPROVED FOR CONSTRUCTION
 APPROVED FOR INSTALLATION

DATE: 1/27/15
 DATE: 1/27/15

BETHANY A. MILLER
 1/27/15

DEVELOPMENT COORDINATOR

APPROVED FOR CONSTRUCTION
 APPROVED FOR INSTALLATION

NO. DATE REVISIONS

FORT BEND COUNTY MUD NO. 1340
 FORT BEND COUNTY, TEXAS

J.C. JONES & CARTER, INC.
 ENGINEERS-PLANNERS-SURVEYORS
 Texas Board of Professional Engineers Registration No. 4-439
 6500 Oakleaf Dr., Suite 900, Houston, Texas 77036 (713) 773-5555

HARVEST GREEN LIFT STATION No. 1

P&ID LEGEND
SHEET 1 OF 2

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

CITY OF HOUSTON
 DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

DATE: 1-25-15
 TIME: 10:50 AM
 DRAWN BY: JLM
 CHECKED BY: JLM
 SCALE: AS SHOWN

FILE NO. 25540-0000
 JOB NO. 25540-0000
 DATE: JANUARY 2015
 DOW BY: JLM
 DWG. BY: JLM
 SCALE: NO SCALE

SHEET NO. 3 OF 25

58615
 CITY DRAWING NUMBER

MISCELLANEOUS SYMBOLS:

	480 VAC ELECTRICAL SUPPLY		PROPELLER TYPE FLOW METER		DISCHARGE AIR FILTER		ROTARY LOBE/SCREW POSITIVE DISPLACEMENT BLOWER		MUD VALVE
	240 VAC ELECTRICAL SUPPLY		MAGNETIC TYPE FLOW METER		DISCHARGE SILENCER		PERISTALTIC PUMP		TELESCOPIC VALVE
	120 VAC ELECTRICAL SUPPLY		TURBINE FLOW METER		HEAT TRACING		MOTOR SUBMERSIBLE PUMP		WYE STRAINER
	GATE CHECK VALVE		DRAIN		CALIBRATION TUBE/COLUMN		VERTICAL TURBINE BOOSTER PUMP		MOTOR
	SILENT CHECK VALVE		DRAIN INLET (SCREENED)		VAPORIZOR		CENTRIFUGAL PUMP (WET PIT)		CORPORATION STOP
	SWING CHECK VALVE		DRAIN INLET (OPEN)		ANALYZER		CENTRIFUGAL PUMP (DRY PIT)		DOUBLE CHECK BACKFLOW PREVENTER
	BALL CHECK VALVE		TUBING ADAPTER		INJECTOR		CENTRIFUGAL PUMP (SELF PRIMING)		FOOT VALVE
	GATE VALVE (NORMALLY OPEN)		FLEXIBLE COUPLING		ELECTOR		GENERAL FAN		WINCH
	GATE VALVE (NORMALLY CLOSED)		EXPANSION COUPLING		HEAT EXCHANGER		RECIPROCATING COMPRESSOR (POSITIVE DISPLACEMENT)		LOCAL DISCONNECT
	GLOBE VALVE (NORMALLY OPEN)		SLEEVE COUPLING		TRAP		ROTARY COMPRESSOR (POSITIVE DISPLACEMENT)		EMERGENCY EYE WASH & SHOWER
	GLOBE VALVE (NORMALLY CLOSED)		MECHANICAL COUPLING (VICTAULIC)		FLOW STRAIGHTENER		POSITIVE DISPLACEMENT BLOWER		PERFORATED PLATE
	SAMPLE COCK (NORMALLY CLOSED)		QUICK CONNECT		PULSATION DAMPENOR		DUAL PISTON PUMP		DOOR CONTROL DEVICE
	NEEDLE VALVE (NORMALLY OPEN)		THREADED CAP		MIXER		SCREW PUMP		TRAVELING BRIDGE CRANE
	NEEDLE VALVE (NORMALLY CLOSED)		BLIND FLANGE		STATIC MIXER		HOSE PUMP		
	ANGLE VALVE (NORMALLY OPEN)		UNION		RUPTURE DISK (PRESSURE RELIEF)		POSITIVE DISPLACEMENT PUMP		
	THREE-WAY VALVE (ONE PORT CLOSED)		SLUDGE DRAW-OFF		RUPTURE DISK (VACUUM RELIEF)		SOLENOID METERING PUMP		
	THREE-WAY VALVE (NORMALLY OPEN)		AIR LIFT PUMP		PLATE & FRAME HEAT EXCHANGE		METERING PUMP		
	FOUR-WAY VALVE (NORMALLY OPEN)		MALE CAM & GROOVE QUICK COUPLING		DEGASSING VALVE		PROGRESSIVE CAVITY PUMP		
	AIR RELEASE VALVE		DIAPHRAGM SEAL		BULK STORAGE TANK		GRINDER PUMP		
	SLUDGE AIR RELEASE VALVE		ANNULAR DIAPHRAGM		DOUBLE WALLED BULK STORAGE TANK				
	HORIZ PRESSURE RELIEF VALVE		AIR INTAKE FILTER						
	ANGLE PRESSURE RELIEF VALVE		PULSATION DAMPENOR						
	SOLENOID VALVE		SINGLE DROP COARSE AIR DIFFUSER (PROFILE)						
	BACKPRESSURE REGULATOR, SELF-CONTAINED		SINGLE DROP COARSE AIR DIFFUSER (PLAN)						
	PRESSURE REGULATOR, SELF-CONTAINED		SUBMERGED FINE AIR DIFFUSERS						
	BACKPRESSURE REGULATOR W/EXTERNAL PRESSURE TAP		SUBMERGED COARSE WIDE BAND AIR DIFFUSERS (PLAN)						
	PRESSURE REDUCING REGULATOR W/INTEGRAL OUTLET PRESSURE RELIEF VALVE		WELL SCREEN STRAINER						
	FLOW CONTROL VALVE		BASKET STRAINER						
	PRESSURE REDUCING PRESSURE SUSTAINING VALVE		DUPLEX BASKET STRAINER						
	VACUUM REGULATOR								
	PUMP CONTROL/BACKPRESSURE VALVE								
	OVERFLOW BAFFLE								
	UNDERFLOW BAFFLE								
	V-NOTCH WEIR								

NOTE:
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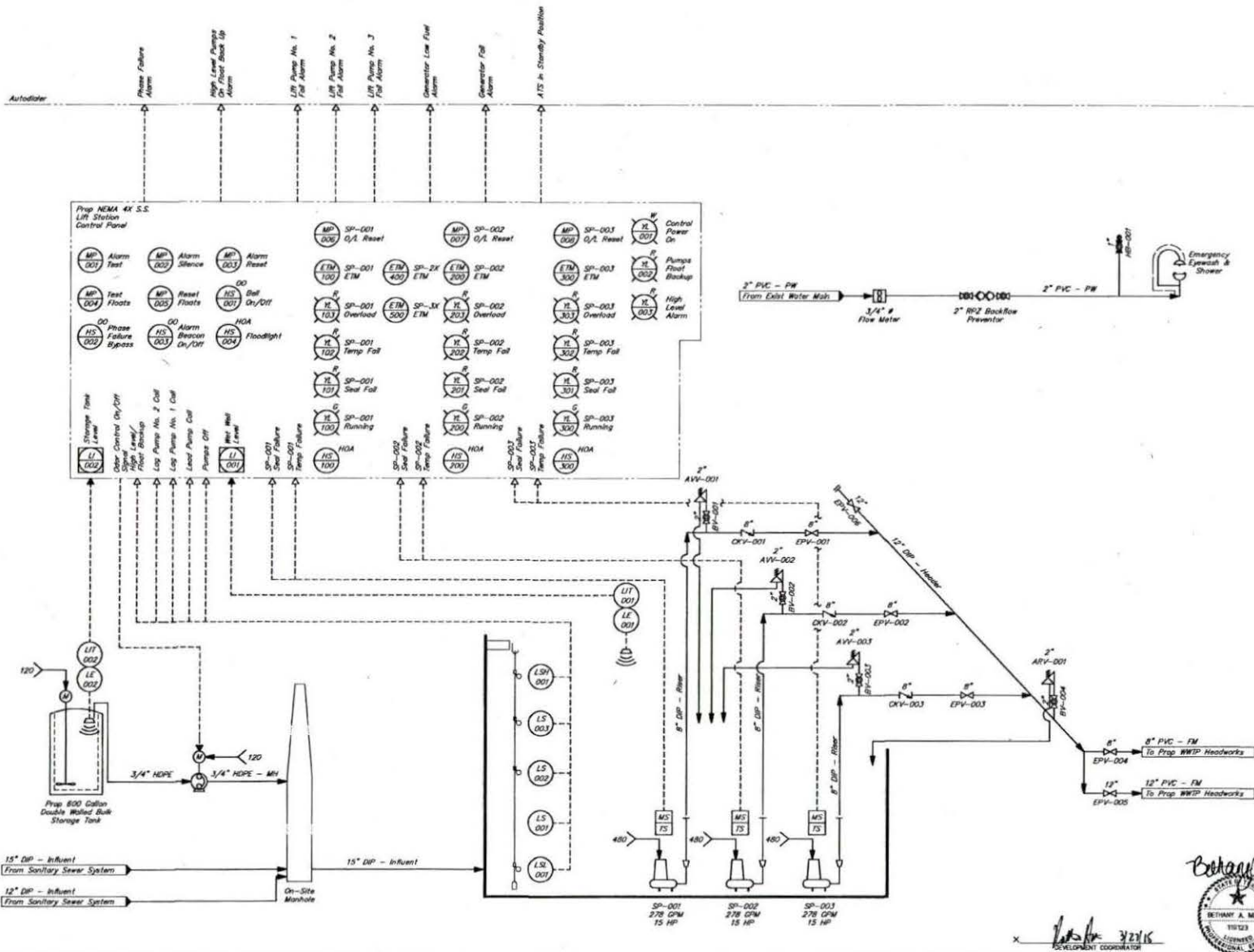


Nathan E. Lader
1/30/16



Bethany A. Miller
1/30/16
DEVELOPMENT COORDINATOR

FORT BEND COUNTY MUD NO. 134D FORT BEND COUNTY, TEXAS	
J.C. JONES & CARTER, Inc. ENGINEERS-PLANNERS-SURVEYORS <small>Texas Board of Professional Engineers Registration No. 2-418 6500 Galleria Dr., Suite 500, Houston, Texas 77057-7133</small>	
HARVEST GREEN LIFT STATION No. 1 P&ID LEGEND SHEET 2 OF 2	
NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES	
CITY OF HOUSTON DEPARTMENT OF PUBLIC WORKS AND ENGINEERING	
DATE: <i>1-15-16</i> DRAWN BY: <i>ML</i> CHECKED BY: <i>ML</i>	DATE: <i>1-15-16</i> DRAWN BY: <i>ML</i> CHECKED BY: <i>ML</i>
FILE NO.: 2014-0082 JOB NO.: 2014-0082	FOR CITY OF HOUSTON USE ONLY CITY ENG NO.:
DATE: JANUARY 2015 DOW BY: <i>ML</i> ENG. BY: <i>ML</i>	SCALE: NO SCALE SHEET NO. 4 OF 23



NOTE:
For electrical & instrumentation only

Nathan L. Lachner
1/23/15

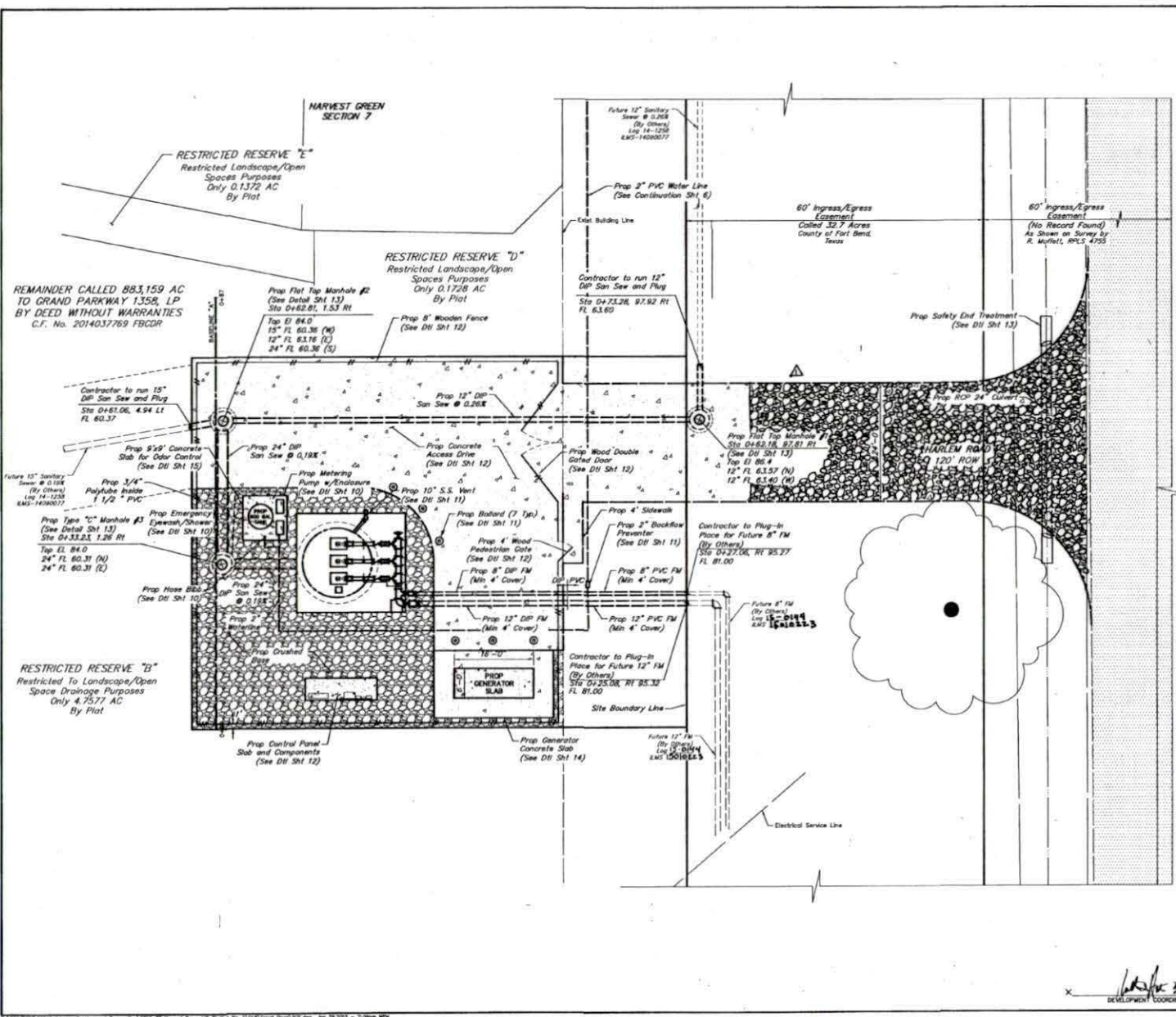
STATE OF TEXAS
NATHAN L. LACHNER
19870
LICENSED PROFESSIONAL ELECTRICAL ENGINEER

Approved for Construction Approved for Bidding	
NO. DATE	REVISIONS
FORT BEND COUNTY MUD NO. 1340 FORT BEND COUNTY, TEXAS	
JC JONES & CARTER, INC. ENGINEERS-PLANNERS-SURVEYORS <small>Texas Board of Professional Engineers Registration No. P-418 4225 Oakshire Dr., Suite 100, Houston, Texas 77031 (713) 777-0207</small>	
HARVEST GREEN LIFT STATION No. 1 LIFT STATION P&ID	
NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES	
CITY OF HOUSTON DEPARTMENT OF PUBLIC WORKS AND ENGINEERING	
DATE: 1-23-15 DRAWN BY: MFW CHECKED BY: JAC	DATE & TIME OF INSPECTION DRAWN WITH CHECK? SCALE: 1" = 10'-0"
FILE NO. JOB NO. 15041-0000	FOR CITY OF HOUSTON USE ONLY CITY ENGINEER
DATE: JANUARY 2015 DOW BY: MFW ENG BY: JAC	58616 CITY ENGINEER
SCALE: NO SCALE	SHEET NO. 5 OF 23

Bethany A. Miller
1/23/15

STATE OF TEXAS
BETHANY A. MILLER
19123
LICENSED PROFESSIONAL ELECTRICAL ENGINEER

3/23/15
DEVELOPMENT COORDINATOR

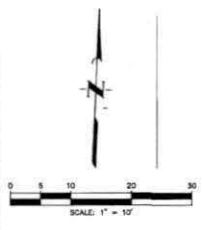


BENCH MARK
 2005 FORT BEND COUNTY LEARN BENCHMARK No. 25 7x4
 NAIL IN ASPHALT LOCATED 2.5' WEST OF THE FRONT MEDIAN
 NOSE WEST OF I. A. JOHNSON HIGHWAY 90-A
 ELEVATION = 84.00' (DAVID BR, 2001 ADJUSTMENT)

100 YR. FLOOD ELEVATION
 ACCORDING TO MAP No. 48157004D, OF THE FEDERAL
 EMERGENCY MANAGEMENT AGENCY'S FLOOD INSURANCE RATE
 MAPS DATED APRIL 3, 2014, THE SUBJECT TRACT IS WITHIN
 THE UNSHADED ZONE "X". UNSHADED ZONE "X" IS DETERMINED
 AS AN AREA DETERMINED TO BE OUTSIDE THE 500-YEAR
 FLOOD PLAIN AND THE NEAREST 100-YEAR FLOOD PLAIN IS
 APPROXIMATELY 8 FEET AND 7 INCHES AWAY AT AN
 ELEVATION AT 83.00 FT.

NOTES:

- Contractor shall coordinate all work within the Harlem Road right of way, including final size, type and grade of the proposed entrance culvert, with the Fort Bend County Road & Bridge Department, (281) 341-9562.



LEGEND:

- EDGE OF PAVEMENT
- WOODEN FENCE
- CENTERLINE OF DITCH
- BOUNDARY LINE
- FUTURE LINE
- PROPOSED UNDERGROUND PIPING
- PROPOSED ABOVE GROUND PIPING

PRIVATE UTILITY LINES SHOWN
 AT 48 HOURS NOTICE INDICATES THE LOCATION OF ALL
 EXISTING UTILITIES. THE LOCATION OF ALL UTILITIES SHALL BE
 VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. THE
 CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL
 UTILITIES. IF ANY UTILITIES ARE DAMAGED, THE CONTRACTOR
 SHALL BE RESPONSIBLE FOR THE REPAIR AND RESTORATION OF
 THE UTILITIES TO ORIGINAL CONDITION. THE CONTRACTOR
 SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES
 THROUGHOUT THE CONSTRUCTION PERIOD. THE CONTRACTOR
 SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES
 THROUGHOUT THE CONSTRUCTION PERIOD. THE CONTRACTOR
 SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES
 THROUGHOUT THE CONSTRUCTION PERIOD.

DATE	DESCRIPTION	APP.
1/15/15	APPROVED FOR CONSTRUCTION	DM
1/15/15	APPROVED FOR CONSTRUCTION	DM
1/15/15	APPROVED FOR CONSTRUCTION	DM

FORT BEND COUNTY MUD NO. 1340
 FORT BEND COUNTY, TEXAS

J.C. JONES & CARTER, INC.
 ENGINEERS - PLANNERS - SURVEYORS
 6005 GULF DR., SUITE 100 HOUSTON, TEXAS 77061 (713) 777-6322

HARVEST GREEN LIFT STATION No. 1

PROPOSED SITE LAYOUT

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

CITY OF HOUSTON
 DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

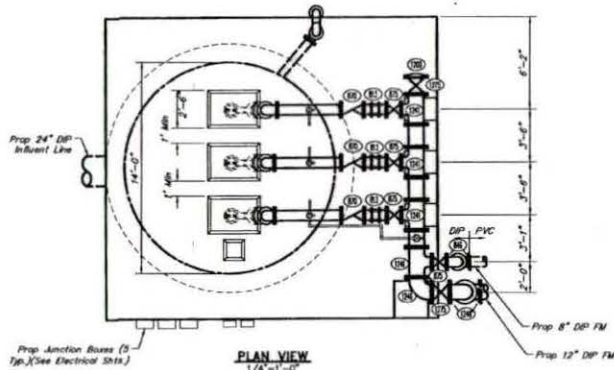
DATE: 1-15-15
 DRAWN BY: BETHANY A. MILLER
 CHECKED BY: BETHANY A. MILLER
 SCALE: 1"=10'

FILE NO. 2014-089
 DATE: JANUARY 2015
 DRAWN BY: BETHANY A. MILLER
 CHECKED BY: BETHANY A. MILLER
 SCALE: 1"=10'
 SHEET NO. 7 OF 23

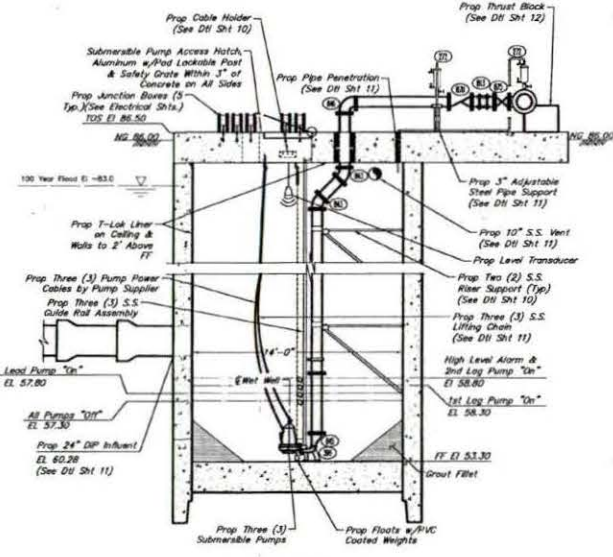
Bethany A. Miller
 1/21/15



1/21/15
 DEVELOPMENT COORDINATOR



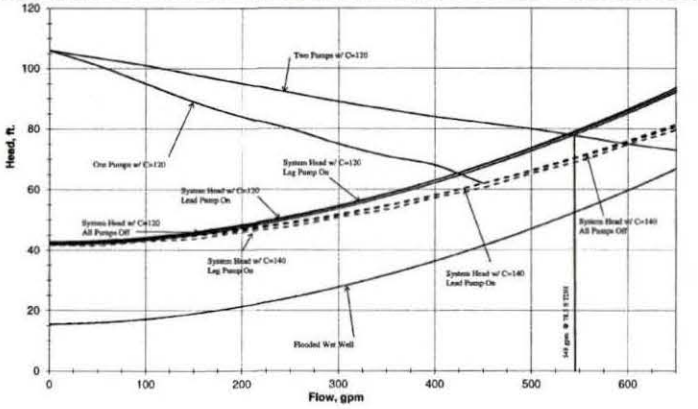
PLAN VIEW
1/4"=1'-0"



PROFILE VIEW
1/4"=1'-0"

Fort Bend County MUD No. 134D
Harvest Green
Lift Station No. 1 - Phase I

The pump curves shown are based on CP 3126 HT 407 Flgnt pumps. The system curve assumes approximately 5,000 linear feet (5,000') of 8 inch (8") PVC pipe force main. The design static head was calculated from the "Lead Pump On" elevation to the discharge outfall.



PROP PHASE I - PUMP DATA

PUMP DATA	2 PUMP OPERATING IN NEW PVC PIPING (C=140)	2 PUMP OPERATING IN OLD PVC PIPING (C=120)
FLOW (GPM)	600	556
TDH (FT.)	75.0	79.5
MIN. OVERALL EFF. (%)	60.0	58.0
STATIC HEAD (FT.)	41.7	41.7
SHAFT HP (MAX)	9.7	9.4
HPM	1,800	1,800

ULTIMATE PHASE - PUMP DATA

PUMP DATA	2 PUMP OPERATING IN NEW PVC PIPING (C=140)	2 PUMP OPERATING IN OLD PVC PIPING (C=120)
FLOW (GPM)	1,920	1,756
TDH (FT.)	66.0	67.9
MIN. OVERALL EFF. (%)	70.0	70.0
STATIC HEAD (FT.)	40.2	40.2
SHAFT HP (MAX)	23.0	21.0
HPM	1,800	1,800

PROP PHASE II - PUMP DATA

PUMP DATA	2 PUMP OPERATING IN NEW PVC PIPING (C=140)	2 PUMP OPERATING IN OLD PVC PIPING (C=120)
FLOW (GPM)	1,200	1,111
TDH (FT.)	60.0	60.9
MIN. OVERALL EFF. (%)	75.0	73.0
STATIC HEAD (FT.)	40.7	40.7
SHAFT HP (MAX)	13	12
HPM	1,800	1,800

LIFT STATION No. 1 PHASE I

RISING LEVEL CYCLE		
ELEVATION	ACTION	PUMP(S) IN OPERATION
57.30	PUMPS OFF LEVEL	ALL PUMPS OFF
57.80	LEAD PUMP TURNS ON	LEAD PUMP ON
58.30	LAG PUMP ON	LEAD & LAG PUMP ON
58.80	HIGH LEVEL ALARM ON	LEAD & LAG & 2ND LAG PUMP ON

FALLING LEVEL CYCLE		
ELEVATION	ACTION	PUMP(S) IN OPERATION
58.30	HIGH LEVEL ALARM OFF	LEAD & LAG PUMP ON
57.80	LAG PUMP OFF	LEAD PUMP ON
57.30	ALL PUMPS TURN OFF	ALL PUMPS OFF - STANDBY PUMP SWITCHES TO LEAD PUMP

- NOTES:**
- The cost of connecting new service shall be provided by the owner. Contractor shall provide and install all necessary pipe, conduits, conductors, fittings and other equipment necessary to energize the lift station.
 - All hardware and miscellaneous metal inside wet well shall be stainless steel.

PIPING CHART

- (1) 2" Air Release Valve
- (2) 2" Air & Vacuum Valve
- (3) Base Elbow by Pump Supplier
- (4) 8" Dresser Coupling
- (5) 8"x45" Bend, FJ
- (6) 8"x3" Eccentric Reducer, FJ
- (7) 8"x80" Bend, FJ
- (8) 8" Swing Check Valve, FJ
- (9) 8" Eccentric Plug Valve, FJ
- (10) 12" Blind Flange, FJ
- (11) 12"x8" Tee, FJ
- (12) 12"x45" Bend, FJ
- (13) 12"x90" Bend, FJ
- (14) 12" Eccentric Plug Valve, FJ

PIPING NOTES

- All Pipe to be Ductile Iron Pipe (DIP) Unless Otherwise Noted.
- Denotes the Use of a Restricted, Push-On Connection.
- Unless Otherwise Noted on the Construction Drawings, All Pipe Centered in Walls Shall Have a Wall Flange. All Wall Flanges Shall be Cast-in-Piece With Structural Concrete or Grouted in Block-Outs With Non-Sliping Gasket.

Approved for Construction
Approved for Bidding

FORT BEND COUNTY MUD No. 134D
FORT BEND COUNTY, TEXAS

J.C. JONES & CARTER, INC.
ENGINEERS-PLANNERS-SURVEYORS
Texas Board of Professional Engineers Registration No. F-219
6200 Galveston Dr., Suite 100, Houston, Texas 77057 (713) 777-9337

HARVEST GREEN LIFT STATION No. 1
PROPOSED LIFT STATION PLAN & PROFILE

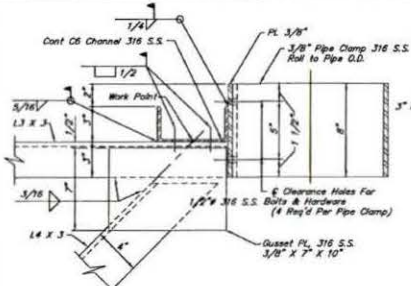
NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES.

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

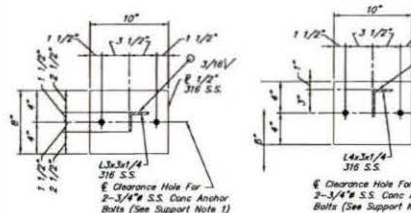
DATE: 1/21/15
DRAWN BY: JAC
CHECKED BY: JAC
SCALE: AS SHOWN

FILE NO.:
JOB NO.: 15040-0000
DATE: JANUARY 2015
DRAWN BY: JAC
CHECKED BY: JAC
SCALE:
SHEET NO. 9 OF 23

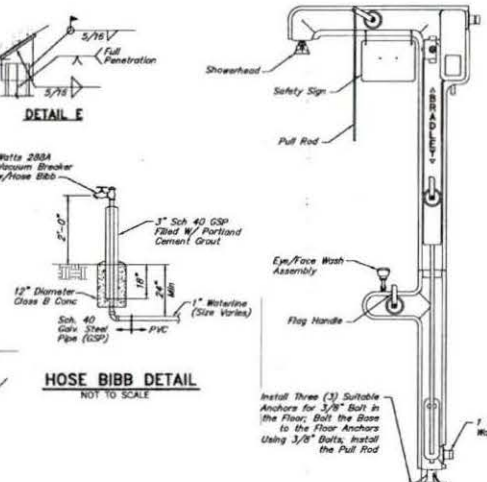




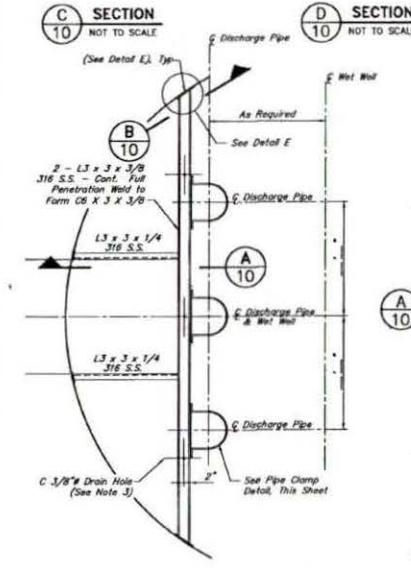
FRAME CONNECTION DETAIL
NOT TO SCALE



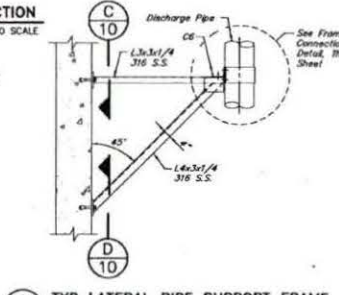
HOSE BIBB DETAIL
NOT TO SCALE



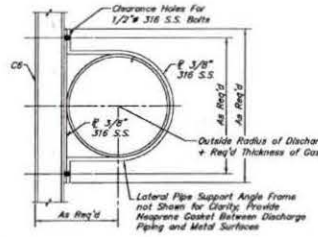
HEAT TRACE SHOWER AND EYE/FACE WASH UNIT DETAIL (BRADLEY S19-300 B)
NOT TO SCALE



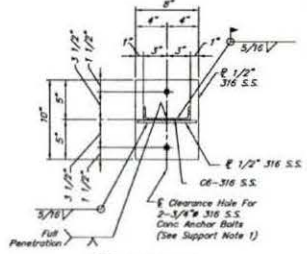
TYP DISCHARGE PIPING SUPPORT PLAN FOR 3 PUMPS
NOT TO SCALE



TYP LATERAL PIPE SUPPORT FRAME
NOT TO SCALE



PIPE CLAMP DETAIL
NOT TO SCALE



SECTION B
NOT TO SCALE

NOTES:

1. Concrete anchor bolts shall have 6" minimum embedment and shall be type 316 stainless steel.
2. See station and structural drawings for dimensions and information not shown.
3. Drill 3/8" holes 1" off E of CS at midspan between lateral pipe supports to allow for drainage. 3 holes per channel where 2 lateral supports required. 2 holes per channel where 1 lateral support required.
4. Set 1/4" neoprene gasket on wall surface in Sika 1A (or equal) sealant.

GENERAL NOTES FOR SIDEWALKS AND DRIVEWAYS

1. SAW CUT EXISTING CURB AT BOTH ENDS AND WACK OUT CURB FROM BEHIND TO END OF PROPOSED DRIVEWAY.
2. SAW CUT EXISTING PAVEMENT A MINIMUM OF 18" INCHES AWAY FROM BACK OF CURB (OUTER LINE) AND BREAK OUT TO EXPOSE EXISTING REINFORCEMENT STEEL.
3. CONTACT SUBGRADE FOR PROPOSED DRIVEWAY CONNECTION FROM PROPOSED SAW CUT AT EXISTING PAVEMENT TO NEAREST CURB LINE. COMPACT TO 95% OF STANDARD PROCTOR DENSITY (A-7.6, 25 DPT) MINIMUM. THE COUNTY ENGINEER RESERVES THE RIGHT TO REQUIRE LABORATORY TESTS TO BE CONDUCTED.
4. PLACE AND COMPACT 4" CLEAN BANK SAND.
5. MARKED OUTER LINE WITH FACE OF EXISTING CURB.
6. PROPOSED DRIVEWAY REINFORCING STEEL IS TO BE TIED TO EXISTING ROADWAY REINFORCING STEEL WITH A MINIMUM LAP OF 12 INCHES.
7. PROPOSED DRIVEWAY REINFORCING STEEL IS TO BE #4 DEFORMED REINFORCING BARS (A76) WITH 12 INCHES MINIMUM LAP (#4 @ 8" MIN. x #5 AS ALTERNATE) FROM PROPOSED SAW CUT TO NEAREST CURB LINE.
8. PROPOSED DRIVEWAY, CURB, GUTTER LINE, AND GRADE SHALL MATCH EXISTING STREET.
9. PROPOSED DRIVEWAY SHALL BE CONSTRUCTED WITH PORTLAND CEMENT CONCRETE, CLASS "A" STRUCTURAL (REFER TO SPECIFICATION 03201) 2 INCHES THICK FROM PROPOSED SAW CUT TO NEAREST CURB LINE (PROPERTY LINE).
10. PROPOSED SIDEWALK SHALL BE CONSTRUCTED WITH PORTLAND CEMENT CONCRETE, CLASS "A" STRUCTURAL (REFER TO SPECIFICATION 03201) 4 INCHES THICK AND 4 FEET MINIMUM WIDTH. SEE DRAWING NO. FBC-025B FOR ADDITIONAL INFORMATION AND DETAILS.

CONSTRUCTION NOTES FOR SIDEWALKS & DRIVEWAYS WITH CURB TYPE STREETS COMMERCIAL AREA

APPROVED BY: L. HOOD DATE: 2/19/04

DESIGNED BY: L. HOOD DATE: 2/19/04

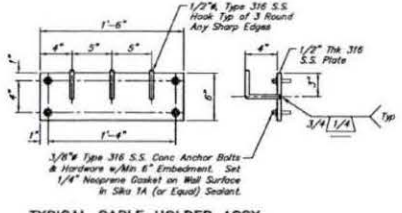
FOR FORT BEND COUNTY ENGINEERING DEPARTMENT

CONSTRUCTION NOTES FOR SIDEWALKS & DRIVEWAYS WITH CURB TYPE STREETS COMMERCIAL AREA

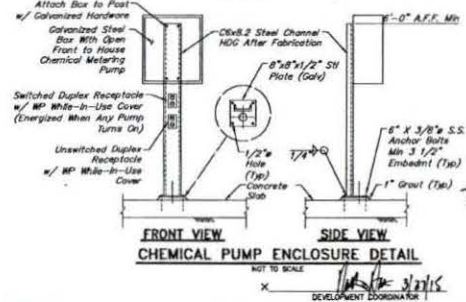
APPROVED BY: L. HOOD DATE: 2/19/04

DESIGNED BY: L. HOOD DATE: 2/19/04

FOR FORT BEND COUNTY ENGINEERING DEPARTMENT



TYPICAL CABLE HOLDER ASSY
NOT TO SCALE



FRONT VIEW CHEMICAL PUMP ENCLOSURE DETAIL
NOT TO SCALE

Approved for Construction
Approved for Bidding

FORT BEND COUNTY MUD NO. 134D
FORT BEND COUNTY, TEXAS

J.C. JONES & CARTER, INC.
REGISTERED PROFESSIONAL ENGINEERS - SURVEYORS
Texas Board of Professional Engineers Registration No. F-213
6300 Dallas Dr. Suite 100, Houston, Texas 77057 (713) 771-6507

HARVEST GREEN LIFT STATION NO. 1

MISCELLANEOUS DETAILS
SHEET 1 OF 4

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

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

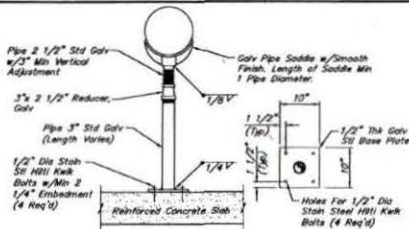
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DATE: 05-15-15
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CHECKED: [Signature]
SCALE: AS SHOWN

FOR CITY OF HOUSTON USE ONLY
CITY ENGINEERING DEPARTMENT

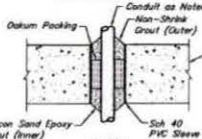
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SHEET NO. 10 OF 23

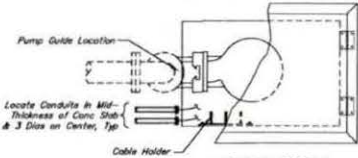
C.O.H. LOG No. 15-0042



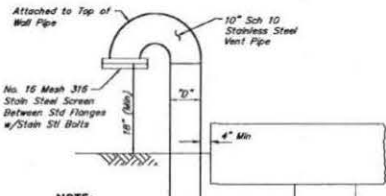
ADJUSTABLE STEEL PIPE SUPPORT
NOT TO SCALE



SLEEVED WET WELL PENETRATION DETAIL
NOT TO SCALE

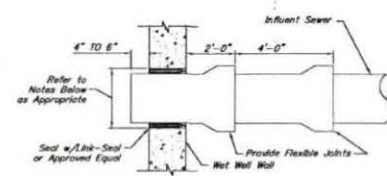


TYP PUMP LIFTING & CABLING DETAIL
NOT TO SCALE



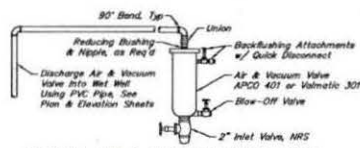
NOTE:
10" is nominal pipe diameter shown on plans.

WET WELL VENT DETAIL
NOT TO SCALE

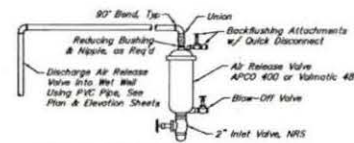


FOR OPENINGS TO BE CORED (CAISSON CONSTRUCTION):
1. Identify Pipe Penetration Location With 1" Dia Plastic Pipe Sleeve.
2. Diameter of Penetration Opening Shall be Equal to Pipe Outer Diameter Plus 2 Times Link-Seal Thickness.
3. Provide Additional Reinforcement Around Penetration Opening as Per Detail on Sheet M1 Before Casting Wall.

TYP INFLUENT SEWER ENTRY DETAIL
NOT TO SCALE

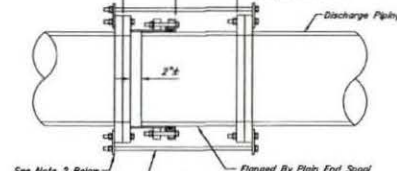


TYPICAL AIR & VACUUM VALVE ASSY
NOT TO SCALE



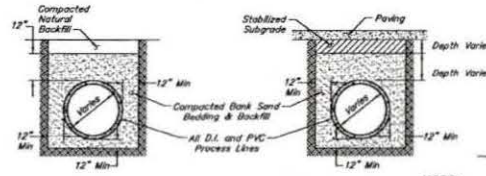
TYPICAL AIR RELEASE VALVE ASSY
NOT TO SCALE

Length of Flanged Coupling Adaptor is Dependent on Size and Manufacturer
FCA 3" Min
Length Shall be Sufficient to Allow Installation and Removal of Flanged Coupling Adaptor's Compression Bolts.

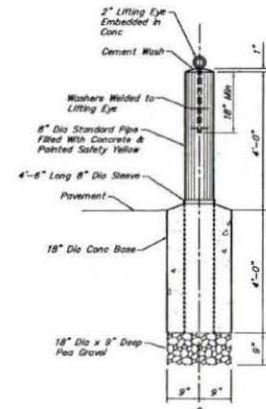


NOTES:
1. Provide a number of tie rods equal to 1/2 the number of flange bolts. Evenly space installation of the rods. Diameter of tie rods to be equal to the diameter of flange bolts. Length of tie rods to be determined by Contractor based on size and manufacturer of flanged coupling adaptor and final length of spoil space.
2. Provide 316 SS tab for attachment of tie rods. Size to be determined by Contractor.
3. Contractor to submit details during shop drawing submission.
4. All hardware shall be 316 stainless steel. Tie rods should be threaded.
5. This restraint does not replace thrust blocks to be provided at other locations.

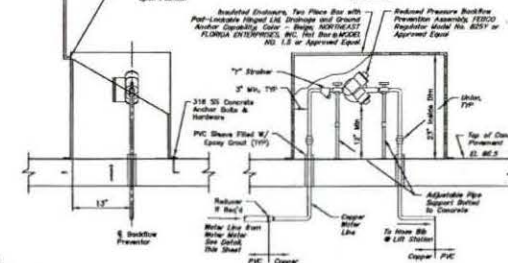
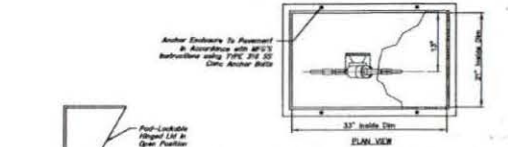
TYPICAL FLANGED COUPLING ADAPTOR RESTRAINT DETAIL
NOT TO SCALE



CLASS "C" BEDDING FOR PIPE SEWERS
NOT TO SCALE



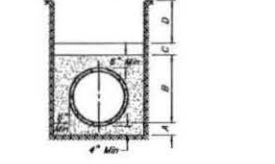
REMOVABLE BOLLARD DETAIL
NOT TO SCALE



REDUCED PRESSURE BACKFLOW PREVENTOR INSTALLATION
NOT TO SCALE

NOTE:
All PVC piping to be installed in accordance with manufacturer's specs.

BEDDING FOR SMALL DIAMETER (<3") PIPING DETAIL
NOT TO SCALE



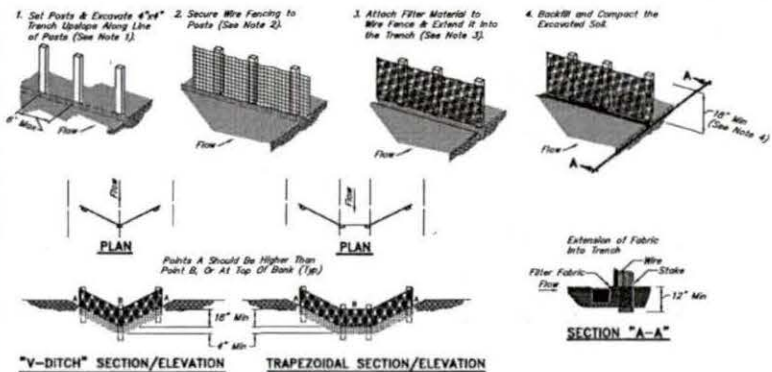
LEGEND:
A - Cement stabilized sand placed before pipe is laid up to flowline of pipe or above (minimum depth 7").
B - Cement stabilized sand, thoroughly rodded, placed after pipe is laid.
C - Earth fill placed same day pipe is laid.
D - Earth fill placed next day (or later) after pipe is laid.

CLASS "AA" BEDDING FOR PIPE SEWERS
36" DIAMETER AND SMALLER
NOT TO SCALE

Approved for Construction Approved for Bidding	
NO. DATE	REVISIONS
FORT BEND COUNTY MUD NO. 1340 FORT BEND COUNTY, TEXAS	
JC JONES & CARTER, INC. ENGINEERS-PLANNERS-ENVIRONMENTALISTS <small>Texas Board of Professional Engineers Registration No. 7,429 1528 S. Gessner Rd., Suite 100, Houston, Texas 77057 (713) 771-0300</small>	
HARVEST GREEN LIFT STATION No. 1	
MISCELLANEOUS DETAILS SHEET 2 OF 4	
<small>NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES</small>	
CITY OF HOUSTON DEPARTMENT OF PUBLIC WORKS AND ENGINEERING	
FILE NO. JOB NO. 02046-0892	DATE: JANUARY 2015 DRN BY: MWM DWG BY: JAC
SCALE: AS SHOWN	SHEET No. 11 of 23
CITY OF HOUSTON USE ONLY CITY ENGINEER 58816 10123 11/12/13 BETHANY A. MILLER CITY ENGINEER	

Bethany A. Miller
11/13
CITY ENGINEER

DEVELOPMENT COORDINATOR



CONSTRUCTION NOTES:

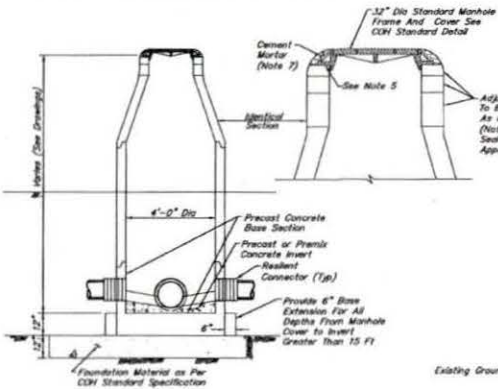
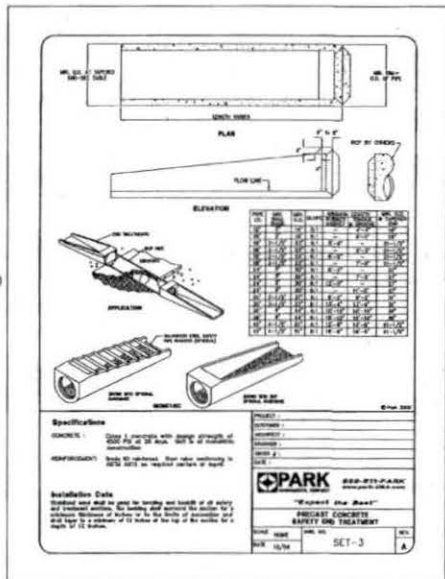
1. Set 2"x2" wooden stakes spaced a maximum of 8' apart & embedded 12" min.
2. Woven wire fence to be fastened securely to fence posts with staples.
3. Filter cloth to be fastened to woven wire fence with ties spaced every 24" at top & midsection.
4. Minimum height of filter should be 18" & a maximum of 36" above natural ground.
5. When two sections of filter cloth adjoin each other, they shall be overlapped 6" at the posts, & fastened.

REINFORCED FILTER FABRIC BARRIER

NOT TO SCALE

EROSION AND SEDIMENTATION CONTROL NOTES:

1. Prior to start of construction, contractor shall install erosion and sedimentation controls at location shown on plans.
2. Contractor shall inspect all erosion 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 systems 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 all fencing, hay bales, or berms around fuel storage areas. (No separate pay)
6. Contractor shall advise owner immediately, verbally, and in writing, of any fuel or toxic material spills onto the project/construction area and the action taken to remedy the problem.
7. Contractor is responsible for disposing of his tools, materials, and contaminated excavations 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 examine erosion and sedimentation control system before releasing 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 piling contractor removes or punctures timber grates to establish drainage, they must be surrounded by filter fabric fence as shown in detail on this sheet.

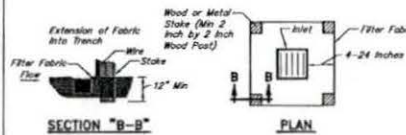


TYPE "C" MANHOLE DETAIL

NOT TO SCALE

MANHOLE NOTES:

1. Depth of manhole determines sections required.
2. Precast concrete rings shall be provided for a combined adjustment height of at least 12". The total height of the adjustment rings shall not exceed 1'-6".
3. Manhole wall thickness for depth exceeding 12'-0" shall be determined to meet loading conditions. Min thickness 8".
4. Manhole drop and intersecting pipes shall be installed only when called for in plan and profile drawing.
5. Seal manhole frame in sediment per COH standard specifications.
6. Eccentric precast concrete manhole may be used.
7. Drill cement mortar when manhole is located in paved areas.
8. Min reinforcing in the precast concrete base shall be #5 @ 8" E.C.
9. Provide backfill to match adjacent pipe trench backfill per COH standard specifications.

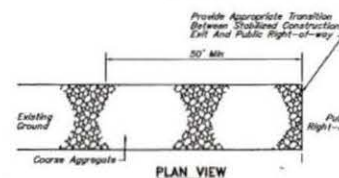
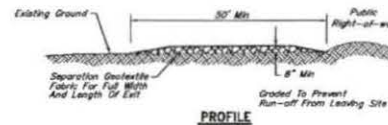


CONSTRUCTION NOTE:

1. See Construction Notes for Filter Fabric Fence.

SILT FENCE INLET PROTECTION BARRIER

NOT TO SCALE



CONSTRUCTION NOTES:

1. Length shall be as shown on the construction drawings, but not less than 50 feet.
2. Thickness shall be not less than 8 inches.
3. Width shall be not less than full width of all points of ingress or egress.
4. Stabilization for other areas shall have the same aggregate thickness and width requirements as the stabilized construction exit, unless otherwise shown on the construction drawing.
5. Stabilized area may be widened or lengthened to accommodate a truck washing area, an outlet sediment trap must be provided for the truck washing area.
6. Stabilized construction exit shall be maintained free of sediment for the duration of the project.

STABILIZED CONSTRUCTION EXIT

NOT TO SCALE

MANHOLE / INLET PROTECTION NOTES:

1. Inlets and manholes that are not complete and/or are subject to conveying storm water flows are to be protected to prevent sediment from entering the proposed or existing storm sewer system.
2. Protection shall consist of one layer of 3x12-inch oak timbers, one (1) inch apart, covered with one layer of woven polypropylene or polyester filter fabric (Eaton G9 100S, Phillips SUPAC 4WS(UV) or approved equal) held in place with 1/2" staples. Timbers shall be held in place with two (2) 2x4's nailed securely to each timber over the filter fabric. The filter fabric shall extend beyond the perimeter of the oak timbers as to ensure one (1) foot of bury between the manhole or inlet and the surrounding soil as shown.
3. Filter fabric to be cleaned or replaced when it ceases to function properly or as directed by the engineer.
4. Contractor may submit plans for alternate methods of protection. These alternate methods must be approved prior to use in the field.
5. No separate payment shall be made for inlet and manhole protection. Include the cost in the unit price for the inlets and manholes.

Bethany A. Miller

10123

10123

10123

PRIVATE UTILITY LINES SHOWN

AT THE CITY OF HOUSTON'S RISK. CONTRACTORS SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION. CALL THE ONE CALL NOTIFICATION 811-255-4387 FOR ASSISTANCE. THE CITY OF HOUSTON IS NOT RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED BY THE UTILITY OWNERS.

NOTES:

1. ALL UTILITIES SHOWN ARE BASED ON THE MOST RECENT RECORD DRAWINGS AVAILABLE TO THE CITY OF HOUSTON.

2. CONTRACTORS SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION.

3. THE CITY OF HOUSTON IS NOT RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED BY THE UTILITY OWNERS.

4. CONTRACTORS SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE UTILITY OWNERS.

5. CONTRACTORS SHALL BE RESPONSIBLE FOR PROTECTING ALL UTILITIES FROM DAMAGE DURING CONSTRUCTION.

6. CONTRACTORS SHALL BE RESPONSIBLE FOR RESTORING ALL UTILITIES TO ORIGINAL OR BETTER CONDITION AFTER CONSTRUCTION IS COMPLETE.

7. CONTRACTORS SHALL BE RESPONSIBLE FOR NOTIFYING THE CITY OF HOUSTON OF ANY UTILITIES FOUND TO BE DIFFERENT FROM THE INFORMATION PROVIDED BY THE UTILITY OWNERS.

8. CONTRACTORS SHALL BE RESPONSIBLE FOR NOTIFYING THE CITY OF HOUSTON OF ANY UTILITIES FOUND TO BE IN THE PUBLIC RIGHT-OF-WAY.

9. CONTRACTORS SHALL BE RESPONSIBLE FOR NOTIFYING THE CITY OF HOUSTON OF ANY UTILITIES FOUND TO BE IN THE PUBLIC RIGHT-OF-WAY.

10. CONTRACTORS SHALL BE RESPONSIBLE FOR NOTIFYING THE CITY OF HOUSTON OF ANY UTILITIES FOUND TO BE IN THE PUBLIC RIGHT-OF-WAY.

11. CONTRACTORS SHALL BE RESPONSIBLE FOR NOTIFYING THE CITY OF HOUSTON OF ANY UTILITIES FOUND TO BE IN THE PUBLIC RIGHT-OF-WAY.

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16. CONTRACTORS SHALL BE RESPONSIBLE FOR NOTIFYING THE CITY OF HOUSTON OF ANY UTILITIES FOUND TO BE IN THE PUBLIC RIGHT-OF-WAY.

17. CONTRACTORS SHALL BE RESPONSIBLE FOR NOTIFYING THE CITY OF HOUSTON OF ANY UTILITIES FOUND TO BE IN THE PUBLIC RIGHT-OF-WAY.

18. CONTRACTORS SHALL BE RESPONSIBLE FOR NOTIFYING THE CITY OF HOUSTON OF ANY UTILITIES FOUND TO BE IN THE PUBLIC RIGHT-OF-WAY.

19. CONTRACTORS SHALL BE RESPONSIBLE FOR NOTIFYING THE CITY OF HOUSTON OF ANY UTILITIES FOUND TO BE IN THE PUBLIC RIGHT-OF-WAY.

20. CONTRACTORS SHALL BE RESPONSIBLE FOR NOTIFYING THE CITY OF HOUSTON OF ANY UTILITIES FOUND TO BE IN THE PUBLIC RIGHT-OF-WAY.

APPROVED FOR CONSTRUCTION

DATE: _____

BY: _____

NO. _____

REVISIONS

APP

FORT BEND COUNTY MUD NO. 1340

FORT BEND COUNTY, TEXAS

J.C. JONES & CARTER, INC.

ENGINEERS-PLANNERS-SURVEYORS

State Board of Professional Engineers Registration No. 2422

1000 Dallas St., Suite 100, Houston, Texas 77001 (713) 775-5557

HARVEST GREEN LIFT STATION NO. 1

MISCELLANEOUS DETAILS

SHEET 4 OF 4

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY

AFTER DATE OF SIGNATURES

CITY OF HOUSTON

DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

DATE: 5-18-2015

BY: BETHANY A. MILLER

10123

10123

10123

FILE NO. 2014-0001

FOR CITY OF HOUSTON USE ONLY

DATE: JANUARY 2015

SCALE: _____

FIG. NO. _____

FIG. NO. _____

58610

SCALE: _____

SHEET NO. 13 OF 21

C.O.H. LOG No. 15-0042

DATE: _____

BY: _____

SCALE: _____

FIG. NO. _____

FIG. NO. _____

SCALE: _____

SHEET NO. 13 OF 21

C.O.H. LOG No. 15-0042

DATE: _____

BY: _____

SCALE: _____

FIG. NO. _____

FIG. NO. _____

SCALE: _____

SHEET NO. 13 OF 21

C.O.H. LOG No. 15-0042

DATE: _____

BY: _____

SCALE: _____

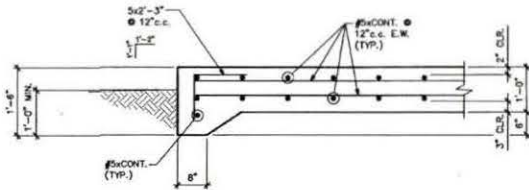
FIG. NO. _____

FIG. NO. _____

SCALE: _____

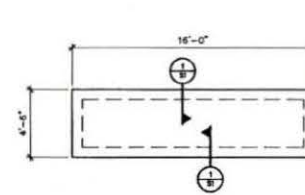
SHEET NO. 13 OF 21

C.O.H. LOG No. 15-0042

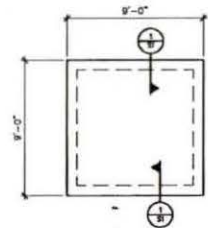


1
1/4'-1'-0"

Section



GENERATOR PAD
1/4'-1'-0"



BULK TANK PAD
1/4'-1'-0"



STANLEY SPURLING & HAMILTON, INC.
Consulting Engineering Services
2333 Edison Street, Suite 200 Houston, Texas 77027
Phone 713-776-1433 Fax 713-776-2428
E-MAIL: INFO@SSHC.NET 0010-1005

NO.	DATE	REVISIONS	APP.

FORT BEND COUNTY MUD NO. 134D
FORT BEND COUNTY, TEXAS

J.C. JONES & CARTER, INC.
ENGINEERS-PLANNERS-SURVEYORS
7300 Oakton St., Suite 100 Houston, Texas 77057
(713) 777-6227

HARVEST GREEN LIFT STATION NO. 1

**BULK TANK & GEN. PADS
PLAN & PROFILE**

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

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

DATE: 11-2-15
DRAWN BY: JCS
CHECKED BY: JCS
DATE: 11-2-15
SCALE: AS NOTED

FILE NO. 6000
JOB NO. 05040-0000-00

DATE: 09-27-15
BOOK BY: JCS
DWG. BY: JCS
SCALE AS NOTED

FOR CITY OF HOUSTON USE ONLY
CITY DWG. NO.
58615
CITY ENGINEER

SHEET NO. 16 OF 23

SUBGRADE NOTES

- PRIOR TO THE LAYING OF GENERATOR PAD, OR BEFORE ANY FILL IS PLACED, ALL TRACES OF ORGANIC, LOOSE OR OBVIOUSLY COMPRESSIBLE MATERIAL MUST BE REMOVED. TREE ROOTS GREATER THAN 0.5 INCHES SHOULD BE ALSO REMOVED. THE SUBGRADE SHOULD BE PROOF ROLLED UNTIL THE GRADE OFFERS A RELATIVELY UNYIELDING SURFACE AND THE SPECIFIED DEGREE OF COMPACTION HAS BEEN ACHIEVED. AREAS OF EXCESSIVE YIELDING SHOULD BE EXCAVATED AND BACKFILLED WITH A CLEAN COMPACTED SOIL. SPECIFIED COMPACTION: 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR TEST (ASTM D-998).
- ANY ADDITIONAL MATERIAL USED TO INCREASE THE ELEVATION OF THE SITE SHOULD BE A RELATIVELY NONEXPANSIVE SANDY CLAY MATERIAL WITH A LIQUID LIMIT OF 28 OR MORE, PLASTICITY INDEX IN THE RANGE OF 15 TO 20, AND SHOULD BE PLACED IN LAYERS OF NOT MORE THAN EIGHT (8) INCHES IN THICKNESS, AT MOISTURE CONTENTS AT OR ABOVE OPTIMUM, AND COMPACTED TO DENSITIES OF AT LEAST NINETY-FIVE (95) PERCENT OF STANDARD PROCTOR DENSITY ASTM D-998.

NOTE

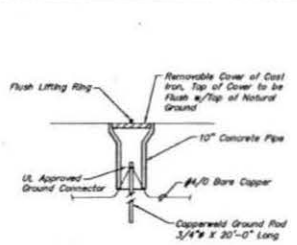
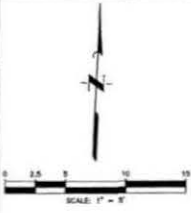
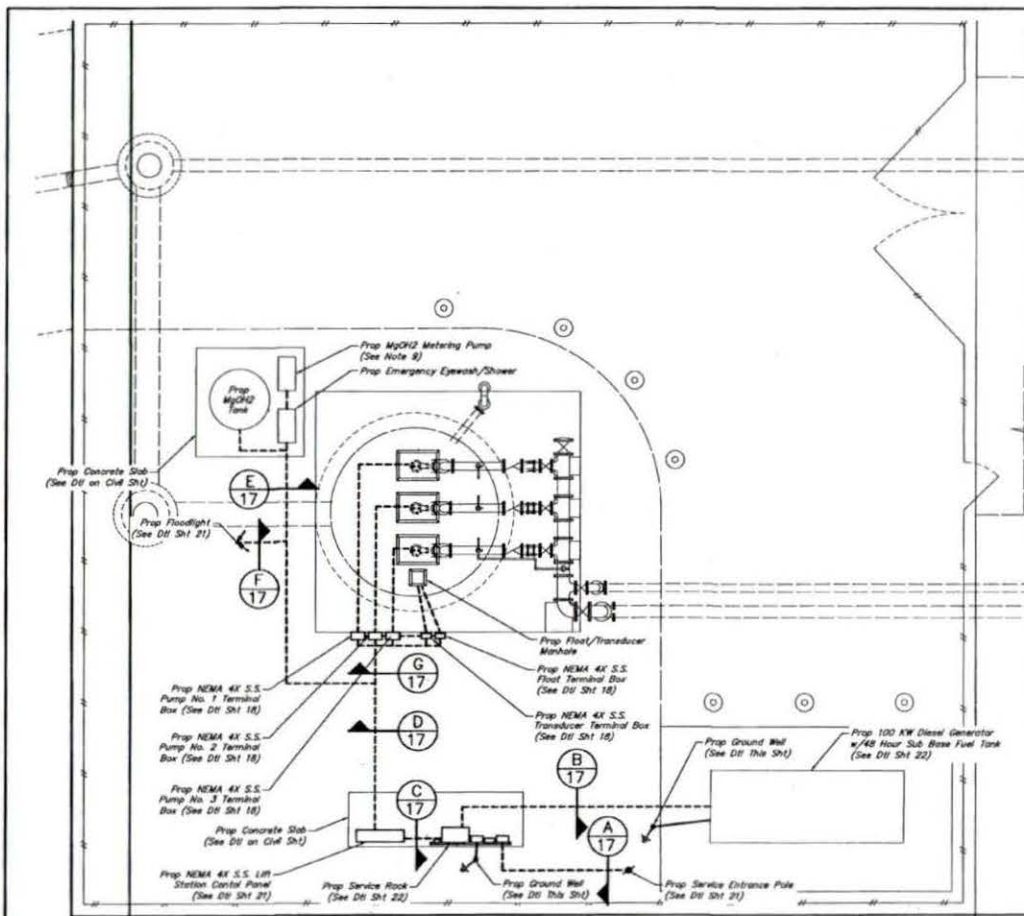
- IN CASE THE SLAB DIMENSIONS ARE CHANGED, CONTRACTOR MUST SUBMIT THE REVISIONS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF TEXAS.
- THE SLAB LENGTH AND WIDTH SHOWN HERE ARE APPROXIMATE AND ARE SIZED FOR A DIESEL GENERATOR WITH A FUEL TANK. IF THE OWNER SELECTS A NATURAL GAS GENERATOR, THE SLAB DIMENSIONS MAY BE REDUCED. THE FINAL SLAB DIMENSIONS MUST CONFORM WITH THE MINIMUM CLEARANCES SHOWN ON THE ELECTRICAL PLANS.

GENERAL NOTES

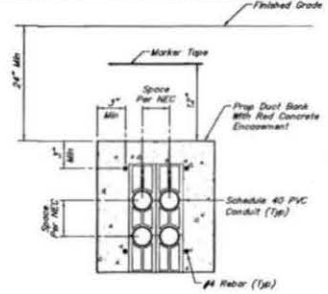
- ALL CONCRETE SHALL TEST 4000 PSI AT 28 DAYS.
- ALL CONCRETE REINFORCING BARS SHALL CONFORM TO ASTM A615 GRADE 60.
- DETAILING AND FABRICATION OF CONCRETE REINFORCEMENT AND ACCESSORIES SHALL BE IN ACCORDANCE WITH A.C.I.'S LATEST EDITION.
- LAP ALL CONTINUOUS REINFORCING BARS 50 DIAMETERS AT SPLICES, TEES, AND CORNERS.
- THE USE OF HEAT TO FACILITATE THE BENDING OF REINFORCING BARS WILL NOT BE PERMITTED.
- ALL STRUCTURAL STEEL DETAILS AND CONNECTIONS SHALL CONFORM TO THE STANDARDS OF THE A.I.S.C.
- NO ENGINEERING DRAWING MAY BE REPRODUCED FOR USE AS SHOP DRAWINGS.

DEVELOPMENT COORDINATOR

S3



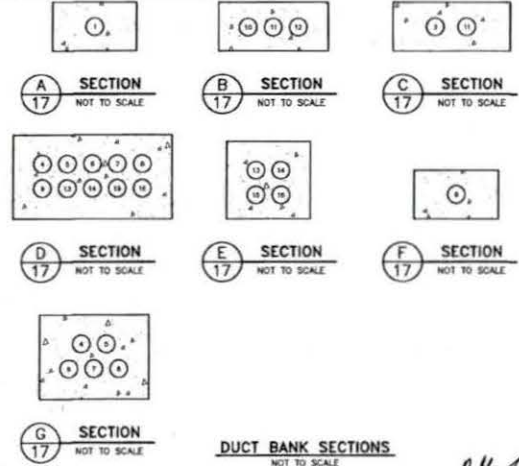
GROUND WELL DETAIL
NOT TO SCALE



TYPICAL DUCT BANK CONSTRUCTION
NOT TO SCALE

NOTES:

- All construction shall comply with local and national codes and requirements.
- 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 and all permits associated with the work. The costs of the permits, if any, shall be borne by the Contractor.
- All above grade and vertical riser conduit shall be PVC coated rigid galvanized steel conduit unless otherwise shown. All conduits in duct banks shall be Schedule 40 PVC except for risers and elbows. Duct bank elbow & risers shall be PVC coated rigid galvanized steel conduit. All mounting hardware to be stainless steel.
- See specifications for wire types.
- All aspects of this installation must comply with the latest Utility Company standards. Review the project's service requirements of locations, ratings, and methods with CenterPoint Energy prior to beginning construction.
- Provide traditional "NEMA" devices as defined in NEMA standards publication No. ICS 2.4-2003. IEC components are not allowed.
- Contractor shall install the proposed MgOH2 peristaltic pumps in a 24" x 24" x 18" minimum (size per submitted pump) NEMA 4X stainless steel enclosure with 3-point latching. Secure pump to enclosure per pump manufacturer's mounting recommendations.
- The proposed metering pump and tank mixer motors shall have inherent thermal overload protection per NEC 430.32(B). Proposed peristaltic pump shall be fed by a 20-Amp single pole breaker and proposed mixer by a 30-Amp single pole breaker installed in proposed Lift Station Lighting Panel.
- Contractor shall wire MgOH2 level transmitter to proposed ProVu PD6000 located on face of lift station control panel. Panel manufacturer is responsible for coordination and calibration of the PD6000 panel meter.



DUCT BANK SECTIONS
NOT TO SCALE

LEGEND:

- GROUND CONDUCTOR
- ELECTRICAL DUCT BANK (SEE DTL THIS SHIT)
- FLOODLIGHT (SEE DTL THIS SHIT)
- SERVICE POLE (SEE DTL SHIT 21)
- FLOODLIGHT (SEE DTL SHIT 21)

CONDUIT SCHEDULE			
NO.	SIZE & CONDUCTORS	DESCRIPTION	ORIGIN
1	2 1/2" C, W/3-#4/D + #2 NTU	UTILITY POWER SERVICE	UTILITY COMPANY MAIN DISCONNECT
2	2 1/2" C, W/3-#4/D + #2 NEU + #2 OND	INCOMING SERVICE	MAIN DISCONNECT
3	2 1/2" C, W/3-#4/D + #2 NEU + #2 OND	LIFT STATION CONTROL PANEL POWER	ATS LIFT STATION CONTROL PANEL
4	1" C, W/2-#6 + 4-#14 + #10 GND	LIFT PUMP No. 1 POWER AND CONTROLS	LIFT STATION CONTROL PANEL PUMP No. 1 TERMINAL BOX
5	1" C, W/2-#6 + 4-#14 + #10 GND	LIFT PUMP No. 2 POWER AND CONTROLS	LIFT STATION CONTROL PANEL PUMP No. 2 TERMINAL BOX
6	1" C, W/2-#6 + 4-#14 + #10 GND	LIFT PUMP No. 3 POWER AND CONTROLS	LIFT STATION CONTROL PANEL PUMP No. 3 TERMINAL BOX
7	1" C, W/10-#14 + #2 GND	FLOAT CONTROLS	LIFT STATION CONTROL PANEL FLOAT TERMINAL BOX
8	1" C, W/10-#14 + #2 GND	TRANSDUCER	LIFT STATION CONTROL PANEL TRANSDUCER TERMINAL BOX
9	1" C, W/2-#12 + #12 GND	FLOODLIGHT POWER	LIFT STATION CONTROL PANEL FLOODLIGHT
10	2 1/2" C, W/3-#4/D + #2 NTU + #2 OND	GENERATOR POWER	GENERATOR
11	3 1/2" C, W/2-#6 + 4-#12 + 6-#14 + #6 GND	GENERATOR MISC. POWER & CONTROLS	GENERATOR (THRU ATS) LIFT STATION CONTROL PANEL
12	1" C, W/ANNUNCIATOR CABLE	GENERATOR ANNUNCIATOR	GENERATOR ANNUNCIATOR
13	1" C, W/2-#12 + #12 GND	METERING PUMP POWER	LIFT STATION CONTROL PANEL MgOH2 METERING PUMPS ENCLOSURE
14	1" C, W/2-#10 + #12 GND	MgOH2 MIXER POWER	LIFT STATION CONTROL PANEL MgOH2 STORAGE TANK MIXER
15	1" C, W/10-#18 SHIELDED PAIR + #12 GND	MgOH2 LEVEL TRANSMITTER	LIFT STATION CONTROL PANEL MgOH2 STORAGE TANK MIXER
16	1" C, W/2-#12 + #12 GND	HEAT TRAP POWER	LIFT STATION CONTROL PANEL EYEWASH STATION

Approved for Construction
Approved for Building

NO. 17 OF 38

FORT BEND COUNTY MUD NO. 134D
FORT BEND COUNTY, TEXAS

J.C. JONES & CARTER, INC.
ENGINEERS-PLANNERS-SURVEYORS
Texas Board of Professional Engineers Registration No. F-419
8000 Galleria Dr., Suite 100, Houston, Texas 77051 (713) 771-0001

HARVEST GREEN LIFT STATION No. 1

ELECTRICAL SITE LAYOUT

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

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

DATE: JANUARY 2015
DRAWN BY: JEM
CHECKED BY: JEM
SCALE: AS SHOWN

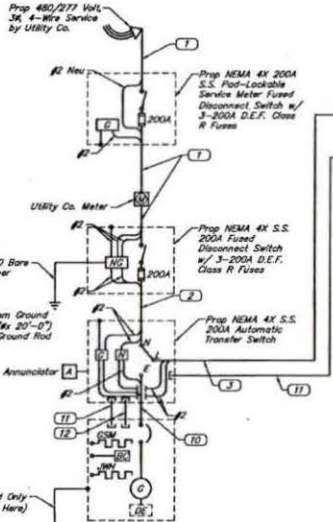
FOR CITY ENGINEER USE ONLY
CITY ENGINEER
58615
CITY OF HOUSTON

FILE NO. 2014-0001
DATE: JANUARY 2015
DRAWN BY: JEM
CHECKED BY: JEM
SCALE: AS SHOWN

NO. 17 OF 38

ONE-LINE DIAGRAM LEGEND

SYMBOL	DESCRIPTION
	WOLDED CASE CIRCUIT BREAKER
	COMBINATION "MCP" MOTOR STARTER
	HAND-OFF-AUTO SWITCH
	ELAPSED TIME METER
	PHASE FAILURE RELAY
	MOISTURE SENSOR
	TEMPERATURE SENSOR IN MOTOR
	3 PHASE MOTOR (HORSEPOWER NOTED)
	SURGE SUPPRESSOR
	NEUTRAL BUS
	SPECIAL DEVICE (SEE SCHEDULE SHT 20)
	GROUND WELL (SEE DETAIL SHT 17)
	WEATHERHEAD
	NEUTRAL GROUND PAD
	GROUND PAD
	NEUTRAL PAD
	FLOAT SWITCH
	FUSED SWITCH

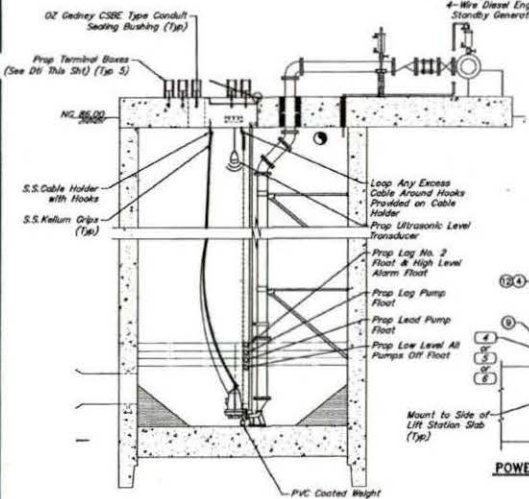
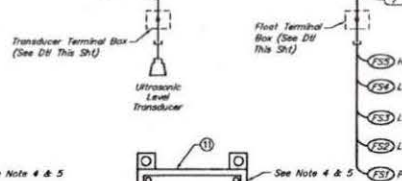


- NOTES:**
- See specifications for wire types.
 - Adjust MCP for motor load.
 - Verify pump protection conductor requirements. Furnish accordingly. If pump is supplied with separate cable for protection dets, then provide additional conduit into terminal box and control panel. Verify pump cable dets. for insertion in 2" conduit shown, increase size if required.
 - All terminal boxes to be NEMA 4X stainless steel.
 - Contractor to provide terminal boxes with nameplates 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 2-1/2". Nameplates shall be white letters on black background. Affix nameplates to face of terminal box, using self-tapping stainless steel screws.
 - Enclosure shown is approximate in size. Verify dimension requirements of components and size accordingly. Match equipment schedule heater and cooling fan options to selected manufacturer.
 - Provide traditional "NEMA" devices as defined in NEMA standards publication No. ICS 2.4-2003. IEC components are not allowed.
 - Floata & intrinsically safe relays are part of an intrinsically safe circuit that requires 3" spacing from non-intrinsically safe circuits in both the field terminal box and control cabinet. Label circuits as intrinsically safe.
 - See plan view for true vent orientation.

ELECTRICAL LOAD ANALYSIS

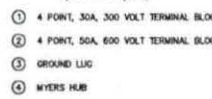
LOAD	AMPS		
	#A	#B	#C
LIFT PUMP NO. 1 (ULTIMATE)	30 HP	40	40
LIFT PUMP NO. 2 (ULTIMATE)	30 HP	40	40
LIFT PUMP NO. 3 (ULTIMATE)	30 HP	40	40
+ 25% LARGEST MOTOR		10	10
CONTROL & LIGHTING (7.5 KVA)		16	-
TOTAL LOAD		146	130
SERVICE AMPACITY @ 480 VOLT, 3ø, 4 WIRE		200	200
SPARE AMPACITY		54	70
CALCULATED FAULT CURRENT		< 22 KAC	

ONE-LINE DIAGRAM
NOT TO SCALE

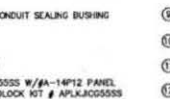


PROFILE VIEW
1/4"=1'-0"

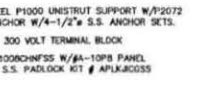
POWER CABLE TERMINAL BOX
NOT TO SCALE
(TYP OF 3 REQ'D)



FLOAT TERMINAL BOX
NOT TO SCALE



TRANSDUCER UPPER ASSEMBLY
NOT TO SCALE



TERMINAL BOX DETAILS
NOT TO SCALE

- 4 POINT, 30A, 300 VOLT TERMINAL BLOCK
- 4 POINT, 50A, 600 VOLT TERMINAL BLOCK
- GROUND LUG
- MYERS HUB
- OZ GEDNEY CSBE TYPE CONDUIT SEALING BUSHING
- RIGID TO PVC ADAPTER
- CH. EYO SEAL W/ OROO
- HOFFMAN #A-1412DWF5555 W/#A-14P12 PANEL (14"x12"x5") & S.S. PADLOCK KIT # APLKJ05555
- STAINLESS STEEL P1000 UNISTRUT SUPPORT W/P/272 POST BASE ANCHOR W/4-1/2" S.S. ANCHOR SETS.
- 12 POINT, 30A, 300 VOLT TERMINAL BLOCK
- HOFFMAN #A-1000DHF55 W/#A-10P8 PANEL (10"x8"x5") & S.S. PADLOCK KIT # APLKJ0555
- DUCT SEAL

Approved for Construction
See Appendix for Building

FORT BEND COUNTY MUD NO. 134D
FORT BEND COUNTY, TEXAS

JC JONES & CARTER, INC.
ENGINEERS-PLANNERS-SURVEYORS
Texas Board of Professional Engineers Registration No. F-432
6333 Calhoun Dr., Suite 100, Houston, Texas 77057 (713) 774-0300

HARVEST GREEN LIFT STATION No. 1

ELECTRICAL ONE-LINE DIAGRAM

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

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

DATE: 1/14/2015
DRAWN BY: MCM
CHECKED BY: HEP

FOR CITY OF HOUSTON USE ONLY
DATE: JANUARY 2015
BOOK BY: MCM
DRAWN BY: HEP

53615

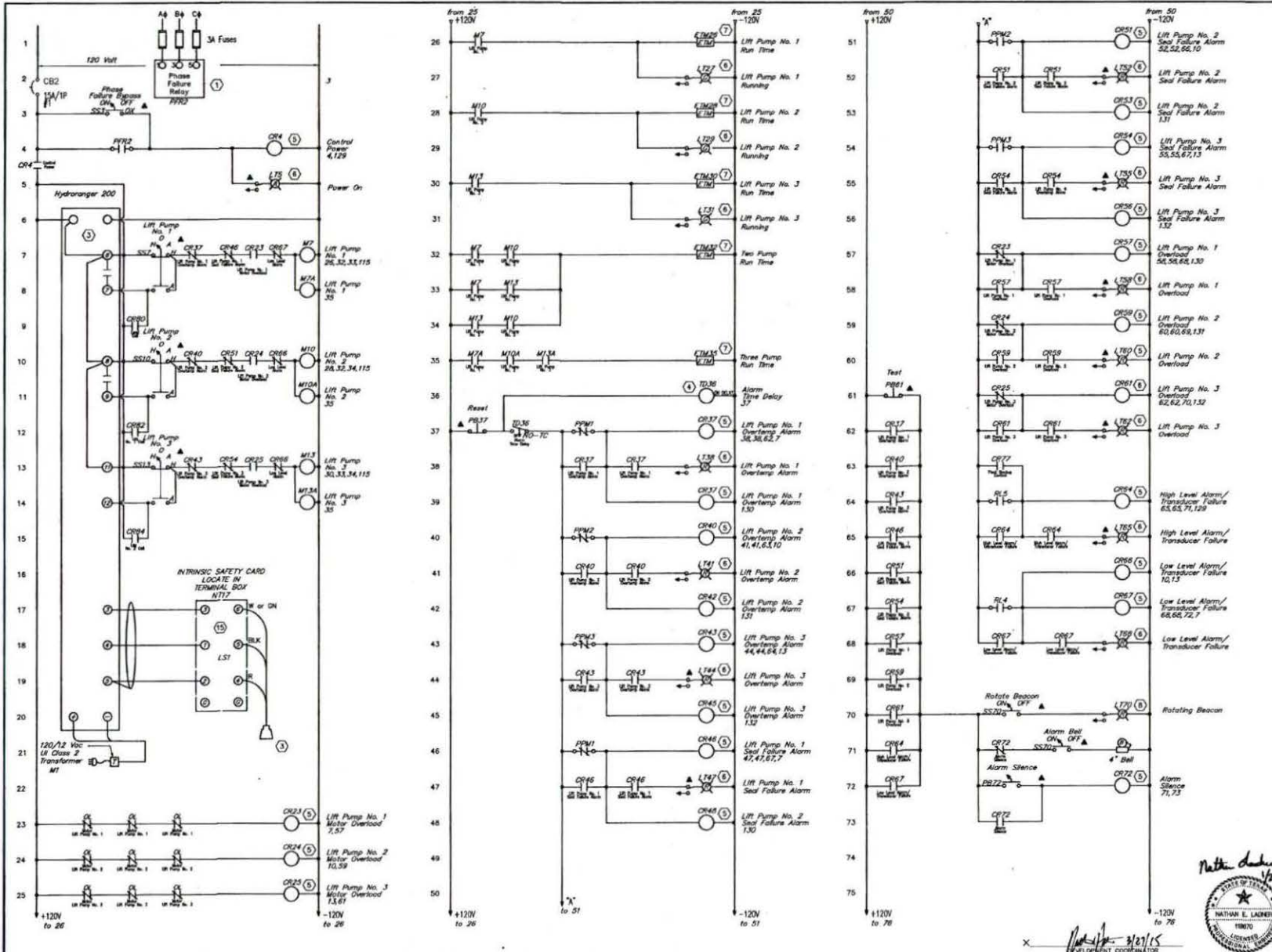
DATE: 1/14/2015
DRAWN BY: MCM
CHECKED BY: HEP

53615

SHEET No. 18 of 28



Nathan E. Linder
DEVELOPMENT COORDINATOR

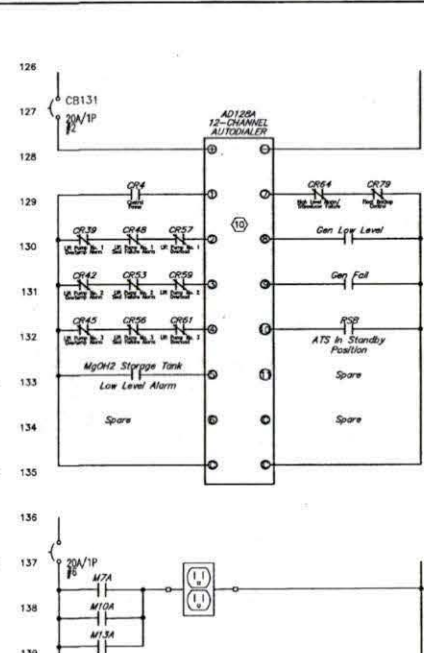
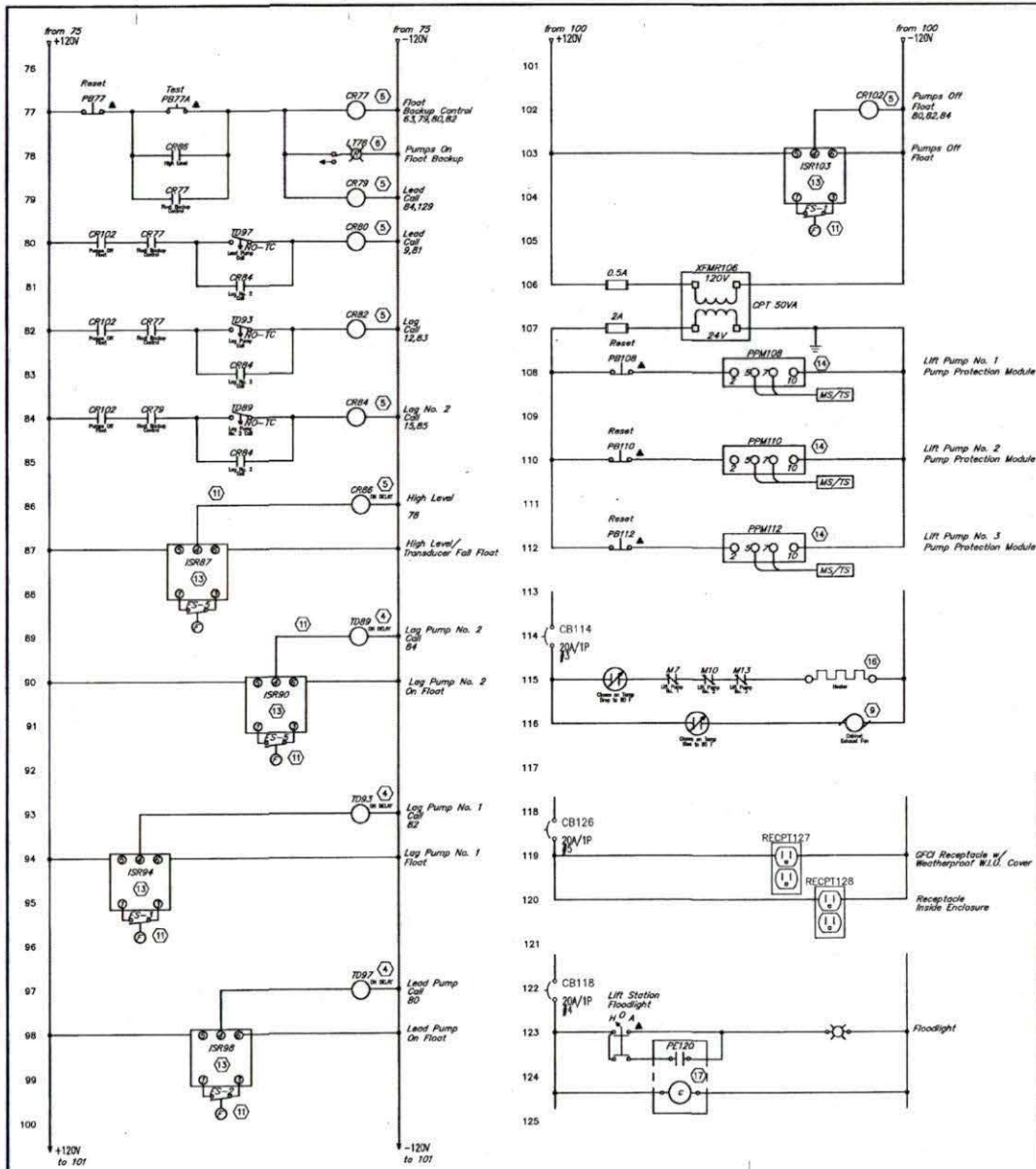


- NOTES:**
1. Floats and intrinsically safe relays are part of an intrinsically safe circuit that requires 3" spacing from non-intrinsically safe circuits in both the field terminal box and control cabinet. Label circuits as intrinsically safe.
 2. Add M coil auxiliary relay if required.

Approved for Construction Approved for Building	
FORT BEND COUNTY MUD NO. 1340 FORT BEND COUNTY, TEXAS	
J.C. JONES & CARTER, INC. ENGINEERS-PLANNERS-SURVEYORS <small>Texas Board of Professional Engineers Registration No. 7-478 8000 South Loop, Suite 100, Houston, Texas 77054 (713) 579-8307</small>	
HARVEST GREEN LIFT STATION No. 1	
ELECTRICAL CONTROL DIAGRAM SHEET 1 OF 2	
<small>NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AT THE DATE OF SIGNATURES</small>	
CITY OF HOUSTON DEPARTMENT OF PUBLIC WORKS AND ENGINEERING	
DATE: JANUARY 2015 DRAWN BY: NEM ENG. BY: 157	CHECKED BY: [Signature] SCALE: AS SHOWN
FILE NO. 05040-0006 JOB NO. 05040-0006 DATE: JANUARY 2015 DRAWN BY: NEM ENG. BY: 157	FOR CITY OF HOUSTON USE ONLY CITY ENG. NO. 58016 CITY DRAWING NUMBER



3/21/15
 DEVELOPMENT COORDINATOR



SPECIAL DEVICE SCHEDULE	
ITEM	DESCRIPTION
1	PHASE FAILURE RELAY - DIVERSIFIED ELECTRONICS #FD-440-ALC, 480 VOLT, 3 PHASE
2	SURGE SUPPRESSOR - SEE SPECIFICATIONS
3	SIEMENS/MLI BRONICS HYDRO RANGER 200 LEVEL CONTROLLER WITH ECHO-MAX XRS-5 ULTRASONIC TRANSDUCER WITH ALL ACCESSORIES
4	TIME DELAY RELAY - WITH 2 S.P.D.T. SWITCHES RATED 7 AMPS AT 120 VOLT, CONTACTS AND COIL, PLUG IN BASE AND SOCKET, 3 RANGES, 0.1 TO 100 SEC. ATC, MODEL #3190-134
5	CONTROL RELAY - WITH 4 S.P.D.T. SWITCHES RATED 10 AMPS AT 120 VOLT, 120 VOLT COIL, PLUG IN BASE AND SOCKET
6	INDICATING LIGHT - PUSH TO TEST - LED TYPE, 30MM HEAVY DUTY OILTIGHT/WATER TIGHT, 120 VOLT, 50HZ - COLOR AS INDICATED
7	ELAPSED TIME METER - CRAMER #350/HR5, 120 VOLT
8	ROTATING BEACON - 35 WATTS, SOFPM, 120 VOLT, 50HZ, LAMP, RED ACRYLIC DOME LENS, PARABOLIC TYPE, EDWARDS #8729
9	VENT FAN - HOFFMAN CAT. #A-PAAAFN, 21 WATT, 120 VOLT (WITH RAIN SHIELD GRILL)
10	CELLULAR AUTO DIALER - RAOO VERBATIM
11	SIEMENS MODEL 90 DIRECT ACTING FLOAT SWITCH WITH 40 FOOT OF CABLE
12	EXHAUST GRILLE - HOFFMAN CAT. #A-VK66 LOUVER WITH #A-FLTS6 FILTER K.T. (WITH RAIN SHIELD GRILL)
13	DIVERSIFIED ELECTRONICS CAT. #150-120-AFN LOW CURRENT ISOLATION SWITCH, 5 AMPS, 120 VOLT CONTACTS, (INTRINSICALLY SAFE CIRCUIT TO FLOAT SWITCH)
14	FLYGT MINICAS I/PUS PUMP PROTECTION MODULE OR EQUAL UNIT MUST PROVIDE SEAL LEAK AND WINDING OVERTEMP ALARM, INDICATION, AND PROTECTION AS SHOWN
15	SIEMENS MODEL ISI-3 INTRINSIC SAFETY BARRIER
16	CABINET HEATER - HOFFMAN NO. DAH100A, 115 VAC, 100 WATT
17	PHOTOELECTRIC SWITCH - INTERMATIC SERIES K1100, 120 VOLT - MODEL #K1121
18	PD6000 ProVu DUAL LINE 6 DIGIT PROCESS METER

NOTES:

- Floats and intrinsically safe relays re part of an intrinsically safe circuit that requires 3" spacing from non-intrinsically safe circuits in both the field terminal box and control cabinet. Label circuits as intrinsically safe.
- Add M coil auxiliary relay if required.

CONTROL DIAGRAM LEGEND		CONTROL DIAGRAM LEGEND CONT'D	
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	CIRCUIT BREAKER		CONTROL RELAY CONTACT (NORMALLY OPEN - NORMALLY CLOSED)
	MAGNETIC MOTOR STARTER		ITEM MARK (SEE SPECIAL DEVICE SCHEDULE)
	CONTROL RELAY-4 POLE UNIVERSAL - PLUG IN		TWO POSITION SELECTOR SWITCH
	TIME DELAY RELAY		HAND-OFF-AUTO SWITCH
	SOLENOID VALVE		MICRO SWITCH - STARTER DISCONNECT TO PREVENT CONTROL OPERATION WHEN MOTOR IS DE-ENERGIZED
	SOLENOID VALVE		MECHANICAL CONTACT ON AUTO TRANSFER, ALL CONTACTS SHOWN IN NORMAL POWER POSITION, IF MECHANICAL NOT AVAILABLE, USE RELAY AND ACTUATE BY MECHANICAL
	INDICATING LIGHT-W-WHITE, R-RED, G-GREEN (L.E.D.)		INDUCTION RELAY
	THERMOSTAT		
	ELAPSED TIME METER		
	SPACE HEATER		
	LOCK STOP		
	CONTACT ON TIME DELAY RELAY TIME DELAY CLOSE AFTER ENERGIZATION		
	ON-OFF SWITCH		
	PRESSURE SWITCH		
	PUSHBUTTON		
	HOLDING COIL CONTACT (NORMALLY OPEN - NORMALLY CLOSED)		

APPROVED FOR CONSTRUCTION	DATE	REVISIONS	APP.
<i>[Signature]</i>			

FORT BEND COUNTY MUD NO. 134D
FORT BEND COUNTY, TEXAS

J.C. JONES & CARTER, INC.
ENGINEERS-PLANNERS-SURVEYORS
Texas Board of Professional Engineers Registration No. F-237
8330 Galleria Dr., Suite 100 Houston, Texas 77063 (713) 777-6307

HARVEST GREEN LIFT STATION No. 1

ELECTRICAL CONTROL DIAGRAM SHEET 2 OF 2

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

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

DATE: 1/25/15
DRAWN BY: MCM
CHECKED BY: J. L. S. J. 1/25/15

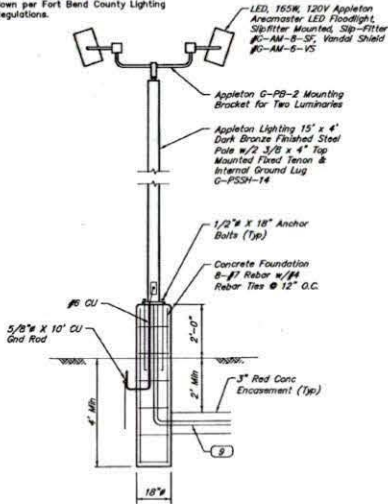
SCALE: AS SHOWN

SHEET NO. 20 OF 22

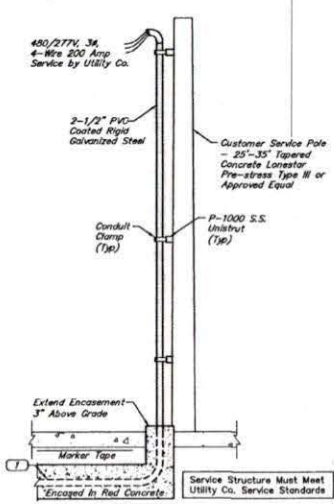


NOTES:

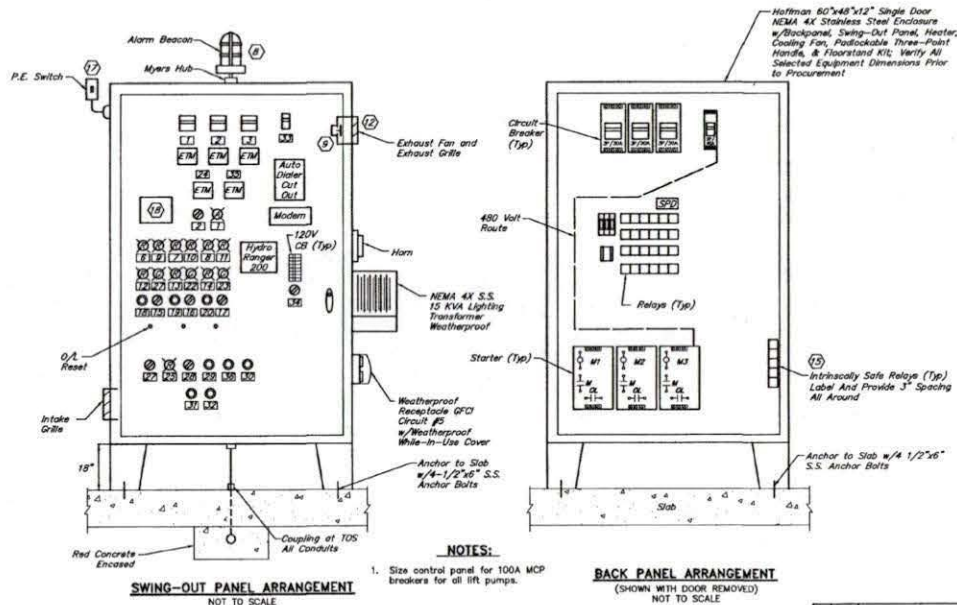
- Light fixture to be oriented no more than 20 degree upward from straight down per Fort Bend County Lighting Regulations.



FLOODLIGHT DETAIL
NOT TO SCALE



SERVICE POLE DETAIL
NOT TO SCALE



SWING-OUT PANEL ARRANGEMENT
NOT TO SCALE

BACK PANEL ARRANGEMENT
(SHOWN WITH DOOR REMOVED)
NOT TO SCALE

**LIFT STATION NO. 1
CONTROL PANEL ELEVATION**
NOT TO SCALE

NAMEPLATE SCHEDULE			
NO.	TITLE	NO.	TITLE
1	MAIN POWER ON	19	No. 2 PUMP PROTECTION MODULE RESET
2	PHASE FAILURE BYPASS OFF-ON	20	No. 3 PUMP PROTECTION MODULE RESET
3	LIFT PUMP No. 1 DISCONNECT	21	PUMP No. 1 RUN
4	LIFT PUMP No. 2 DISCONNECT	22	PUMP No. 2 RUN
5	LIFT PUMP No. 3 DISCONNECT	23	PUMP No. 3 RUN
6	LIFT PUMP No. 1 OVERTEMP	24	THREE PUMP RUN TIME
7	LIFT PUMP No. 2 OVERTEMP	25	WET WELL HIGH LEVEL
8	LIFT PUMP No. 3 OVERTEMP	26	BEACON OFF-ON
9	LIFT PUMP No. 1 SEAL FAILURE	27	HORN OFF-ON
10	LIFT PUMP No. 2 SEAL FAILURE	28	ALARM RESET
11	LIFT PUMP No. 3 SEAL FAILURE	29	ALARM SILENCE
12	LIFT PUMP No. 1 OVERLOAD	30	ALARM TEST
13	LIFT PUMP No. 2 OVERLOAD	31	TEST HIGH ALARM BACKUP
14	LIFT PUMP No. 3 OVERLOAD	32	RESET FLOATS
15	LIFT PUMP No. 1 H-O-A	33	LIGHTING PANEL
16	LIFT PUMP No. 2 H-O-A	34	FLOODLIGHT H-O-A
17	LIFT PUMP No. 3 H-O-A	35	TWO PUMP RUN TIME
18	No. 1 PUMP PROTECTION MODULE RESET		

NOTE:
Nameplates 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 1/2". Alarm nameplates shall be white letters on red background; others shall be white letters on black background. Affix nameplates to panel using self-tapping stainless steel screws. Submit details with shop drawings.

Approved for Construction
Approved for Bidding

NO. DATE REVISIONS APP.

FORT BEND COUNTY MUD NO. 1340
FORT BEND COUNTY, TEXAS

JC JONES & CARTER, Inc.
ENGINEERS-PLANNERS-SURVEYORS
Texas State Board of Professional Engineers Registration No. 2-439
6200 Wilshire Dr., Suite 100 Houston, Texas 77057 (713) 771-6332

HARVEST GREEN LIFT STATION NO. 1

**ELECTRICAL DETAILS
SHEET 1 OF 2**

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

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

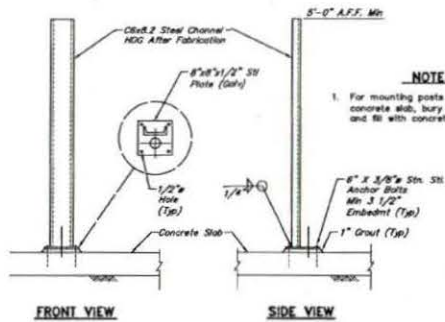
DESIGNED BY: [Signature] DATE: 1-15-15
CHECKED BY: [Signature] DATE: 1-15-15
DRAWN BY: [Signature] DATE: 1-15-15

FILE NO: 0540-0360
JOB NO: 0540-0360
DATE: JANUARY 2015
CON. BY: 1127
SCALE: AS SHOWN

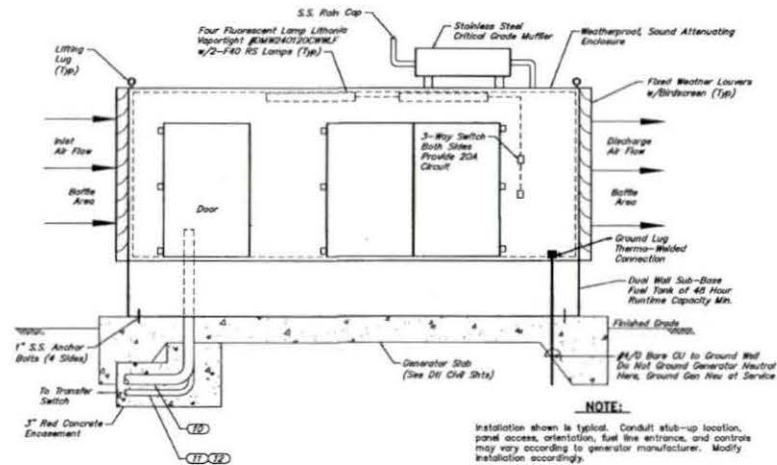
FOR CITY OF HOUSTON USE ONLY
58616
CITY DRAWING NUMBER

SHEET NO. 21 OF 23

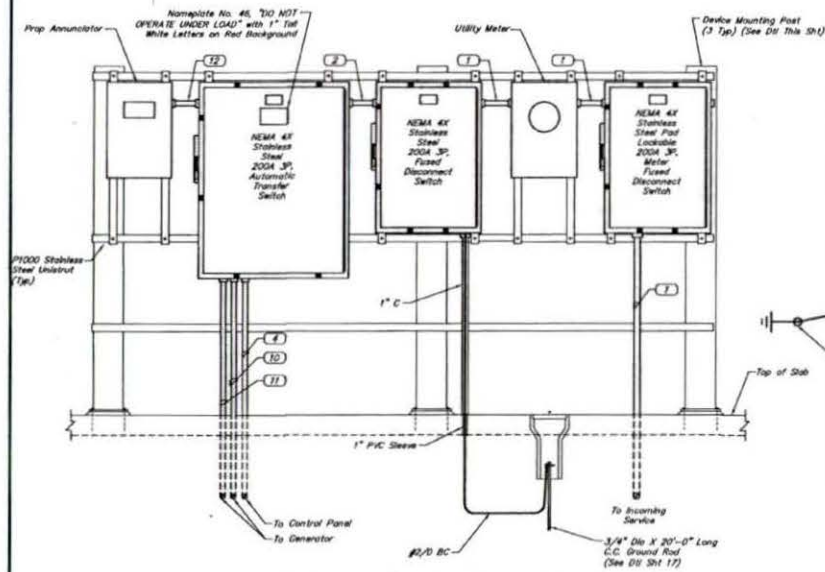
DEVELOPMENT COORDINATOR



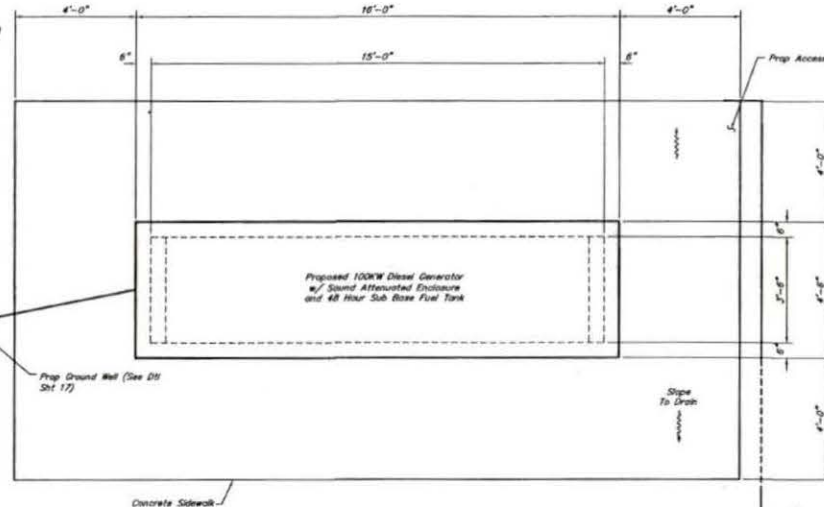
DEVICE MOUNTING POST DETAIL
NOT TO SCALE



GENERATOR INSTALLATION DETAIL
NOT TO SCALE



LIFT STATION ELECTRICAL SERVICE RACK
NOT TO SCALE

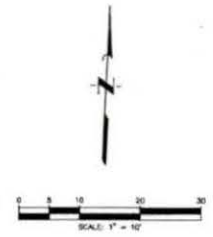
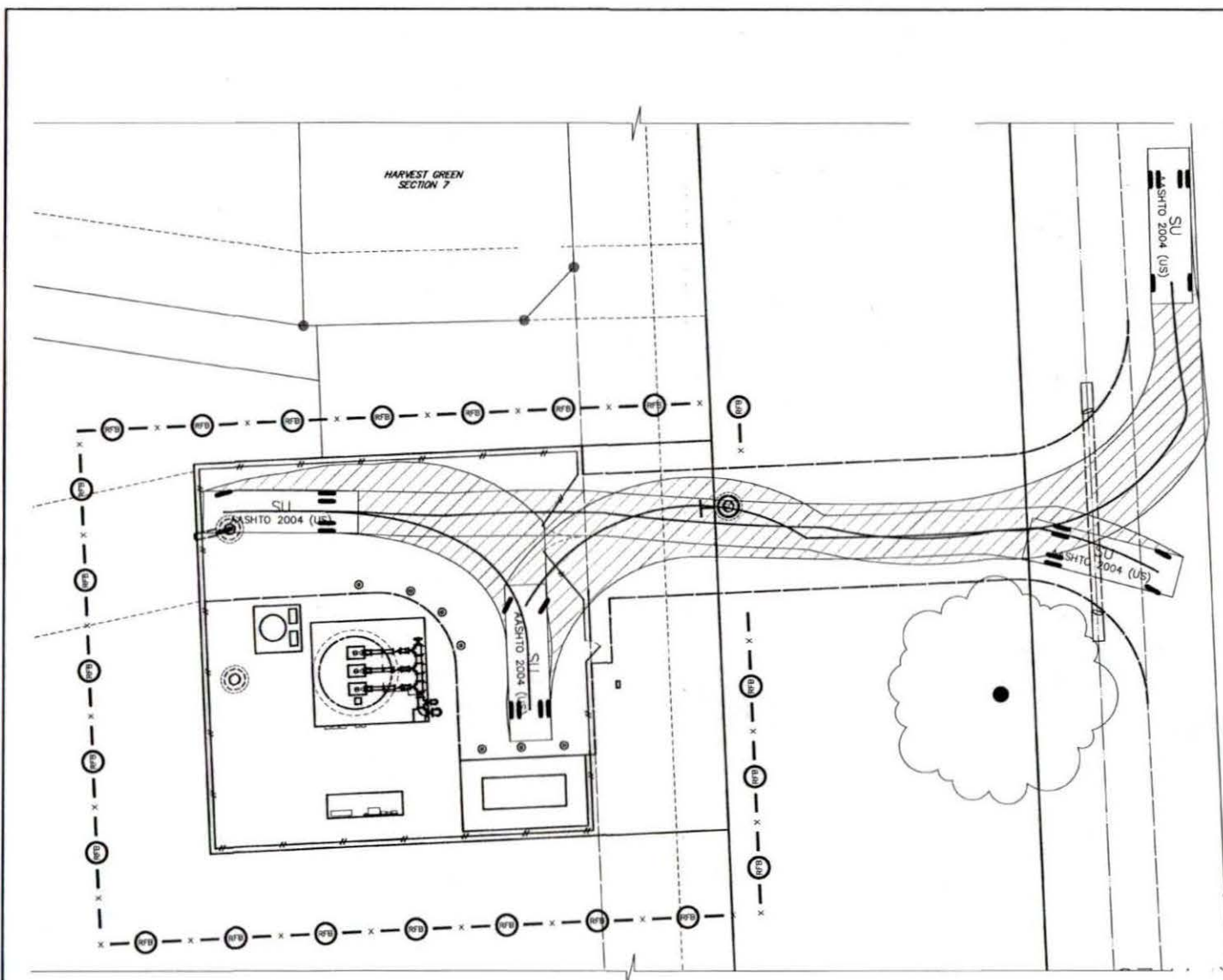


PLAN VIEW
SCALE: 1/2" = 1'-0"

Approved for Construction Approved for Bidding	
PORT BEND COUNTY MUD NO. 1340 FORT BEND COUNTY, TEXAS	
J.C. JONES & CARTER, INC. ENGINEERS-PLANNERS-DESIGNERS Texas Board of Professional Engineers Registration No. F-229 6300 Sutter St., Suite 100, Houston, Texas 77057 (713) 771-6257	
HARVEST GREEN LIFT STATION No. 1 ELECTRICAL DETAILS SHEET 2 OF 2	
NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES	
CITY OF HOUSTON DEPARTMENT OF PUBLIC WORKS AND ENGINEERING	
DATE: 1/16/15 DRAWN BY: MCM CHECKED BY: NLS SCALE: AS SHOWN SHEET NO: 22 OF 28	DATE: 1/16/15 SCALE: AS SHOWN SHEET NO: 22 OF 28



Development Coordinator



- LEGEND:**
- X (RFB) X REINFORCED FILTER FABRIC BARRIER
 - (SC) STABILIZED CONSTRUCTION EXIT
 - EDGE OF PAVEMENT
 - WOODEN FENCE
 - CENTER OF DITCH
 - BOUNDARY LINE
 - - - FUTURE LINE

- NOTES:**
1. Refer to detail sheet 13 for notes and details.

Approved for Construction Approved for Building	
NO. DATE	REVISIONS
FORT BEND COUNTY MUD NO. 1340 FORT BEND COUNTY, TEXAS	
J.C. JONES & CARTER, INC. ENGINEERS-PLANNERS-SURVEYORS <small>Texas Board of Professional Engineers Registration No. P-439 4000 Wilshire Dr., Suite 500, Houston, Texas 77019 (713) 771-0200</small>	
HARVEST GREEN LIFT STATION No. 1 STORM WATER POLLUTION PREVENTION PLAN	
<small>NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES</small>	
CITY OF HOUSTON DEPARTMENT OF PUBLIC WORKS AND ENGINEERING	
DATE: 1/25/15 DRAWN BY: [Signature] CHECKED BY: [Signature]	DATE & TIME OF PROPOSITION: 1/25/15 DRAWN BY: [Signature] CHECKED BY: [Signature]
FILED & BIDD: [Signature]	FOR CITY OF HOUSTON USE ONLY CITY ENGINEER [Signature] 58616
FILE NO: 2014-0881 JOB NO: 2014-0881 DATE: JANUARY, 2015 JOB BY: [Signature] Dwg. No.: 201 SCALE: 1"=10' SHEET No. 23 OF 23	DEVELOPMENT COORDINATOR [Signature]

Bond No. 4400018

PERFORMANCE BOND

STATE OF TEXAS §

COUNTY OF FORT BEND §

KNOW ALL PERSONS BY THESE PRESENTS:

THAT Desert Eagle, LLC dba Panorama CMT of the City of Houston, County of Harris, and State of Texas, as Principal, and SureTec Insurance Company authorized under the Laws of the State of Texas, to act as surety on bonds for principals, as Surety, are held and firmly bound unto Grand Parkway 1358, LP on behalf of Fort Bend County Municipal Utility District No. 134D and Fort Bend County Municipal Management District No. 1 (Owner), in the penal sum of seven hundred sixty-five thousand and 00/100 dollars (\$765,000.00) for the payment whereof, the said Principal and Surety bind themselves, and their officers, directors, successors and assigns, jointly and severally, pursuant to the following:

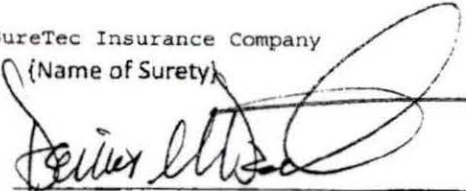
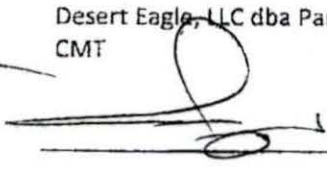
WHEREAS, the Principal has entered into a certain written contract with the Owner, dated the 26 day of APRIL, 2015, for: Construction of Harvest Green Lift Station No. 1 which contract is hereby referred to and made a part hereof as fully and to the same extent as if copied at length herein.

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH, that if the said Principal shall faithfully perform the Work, as defined in and in accordance with the plans, specifications and contract documents, then this obligation shall be void; otherwise to remain in full force and effect;

PROVIDED, HOWEVER, that this bond is executed pursuant to the provisions of Chapter 2253 of the Texas Government Code, as amended, and all liabilities on this bond shall be determined in accordance with the provisions of said statute to the same extent as if it were copied at length herein.

Surety, for value received, stipulates and agrees that no change, extension of time, alteration or addition to the terms of the contract, or to work performed thereunder, or the plans, specifications, or drawings accompanying the same, shall in any way affect its obligation on this bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the contract, or the work to be performed thereunder, or the plans, specifications or drawings accompanying same.

IN WITNESS WHEREOF, the said Principal and Surety have signed and sealed this instrument the 26 day of APRIL, 2015.

SureTec Insurance Company (Name of Surety)		Desert Eagle, LLC dba Panorama CMT	
By: 	By: 		
Name: <u>Dennis M. Descant, Jr.</u>	Name: <u>DANIEL M MANSUR</u>		
Title: <u>Attorney-in-Fact</u>	Title: <u>Owner / manager</u>		
Address: <u>9737 Great Hills Trail, Suite 320</u>	Address: <u>822 Durham #100</u>		
<u>Austin, TX 78759</u>	<u>HOUSTON, TX 77007</u>		
(Seal)	(Seal)		

The name and address of the Resident Agent of Surety is:

Brady, Chapman, Holland and Associates, Inc. - Dennis M. Descant, Jr.
10055 West Gulf Bank Road
Houston, TX 77040

The name, mailing address, physical address and telephone number, including the area code, of the Surety to which any notice of claim should be sent:

SureTec Insurance Company Claims Department
9737 Great Hills Trail, Suite 320
Austin, TX 78759
866-732-0099

Agency Name: Brady, Chapman, Holland and Associates, Inc.
Agent: Dennis M. Descant, Jr.
Address: 10055 West Gulf Bank Road
Houston, TX 77040
Telephone: 713-688-1500

Bond No. 4400018

PAYMENT BOND

STATE OF TEXAS §

COUNTY OF FORT BEND §

KNOW ALL PERSONS BY THESE PRESENTS:

THAT Desert Eagle, LLC dba Panorama CMT of the City of Houston, County of Harris, and State of Texas, as Principal, and SureTec Insurance Company authorized under the Laws of the State of Texas, to act as surety on bonds for principals, as Surety, are held and firmly bound unto Grand Parkway 1358, LP on behalf of Fort Bend County Municipal Utility District No. 134D and Fort Bend County Municipal Management District No. 1 (Owner), in the penal sum of seven hundred sixty-five thousand and 00/100 dollars (\$765,000.00) for the payment whereof, the said Principal and Surety bind themselves, and their officers, directors, successors and assigns, jointly and severally, pursuant to the following:

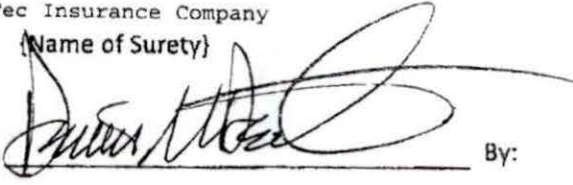

WHEREAS, the Principal has entered into a certain written contract with the Owner, dated the 26 day of APRIL, 2015, for: Construction of Harvest Green Lift Station No. 1 which contract is hereby referred to and made a part hereof as fully and to the same extent as if copied at length herein.

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH, that if the said Principal shall pay all claimants supplying labor and material to it or to a subcontractor in the prosecution of the work provided for in said contract, then, this obligation shall be void; otherwise to remain in full force and effect;

PROVIDED, HOWEVER, that this bond is executed pursuant to the provisions of Chapter 2253 of the Texas Government Code, as amended, and all liabilities on this bond shall be determined in accordance with the provisions of said statute to the same extent as if it were copied at length herein.

Surety, for value received, stipulates and agrees that no change, extension of time, alteration or addition to the terms of the contract, or to work performed thereunder, or the plans, specifications, or drawings accompanying the same, shall in anyway affect its obligation on this bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the contract, or the work to be performed thereunder, or the plans, specifications or drawings accompanying same.

IN WITNESS WHEREOF, the said Principal and Surety have signed and sealed this instrument the 26 day of APRIL, 2015.

SureTec Insurance Company		Desert Eagle, LLC dba Panorama CMT	
(Name of Surety)			
By: 	By: 		
Name: <u>Dennis M. Descant, Jr.</u>	Name: <u>TACAL M MANWARI</u>		
Title: <u>Attorney-in-Fact</u>	Title: <u>OWNER / manager</u>		
Address: <u>9737 Great Hills Trail, Suite 320</u>	Address: <u>822 Durham # 100</u>		
<u>Austin, TX 78759</u>	<u>HOUSTON, TX 77007</u>		
(Seal)	(Seal)		

The name and address of the Resident Agent of Surety is:

Brady, Chapman, Holland and Associates, Inc. - Dennis M. Descant, Jr.
10055 West Gulf Bank Road
Houston, TX 77040

The name, mailing address, physical address and telephone number, including the area code, of the Surety to which any notice of claim should be sent:

SureTec Insurance Company Claims Department
9737 Great Hills Trail, Suite 320
Austin, TX 78759
866-732-0099

Agency Name: Brady, Chapman, Holland and Associates, Inc.
Agent: Dennis M. Descant, Jr.
Address: 10055 West Gulf Bank Road
Houston, TX 77040
Telephone: 713-688-1500

SureTec Insurance Company

LIMITED POWER OF ATTORNEY

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

Deborah Bishop, Jeffrey L. Brady, Dennis M. Descant, Jr., Cheryl A. Sanders

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

Five Million and 00/100 Dollars (\$5,000,000.00)

and to bind the Company thereby as fully and to the same extent as if such bond were signed by the President, sealed with the corporate seal of the Company and duly attested by its Secretary, hereby ratifying and confirming all that the said Attorney-in-Fact may do in the premises. Said appointment shall continue in force until 12/31/2015 and is made under and by authority of the following resolutions of the Board of Directors of the SureTec Insurance Company:

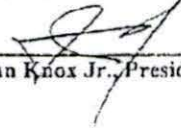
Be it Resolved, that the President, any Vice-President, any Assistant Vice-President, any Secretary or any Assistant Secretary shall be and is hereby vested with full power and authority to appoint any one or more suitable persons as Attorney(s)-in-Fact to represent and act for and on behalf of the Company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

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

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

In Witness Whereof, SURETEC INSURANCE COMPANY has caused these presents to be signed by its President, and its corporate seal to be hereto affixed this 21st day of March, A.D. 2013.

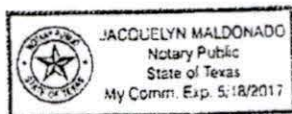
SURETEC INSURANCE COMPANY

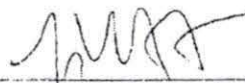
By: 
John Knox Jr., President

State of Texas SS:
County of Harris



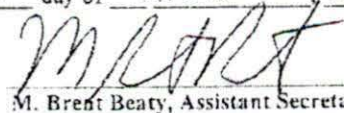
On this 21st day of March, A.D. 2013 before me personally came John Knox Jr., to me known, who, being by me duly sworn, did depose and say, that he resides in Houston, Texas, that he is President of SURETEC INSURANCE COMPANY, the company described in and which executed the above instrument; that he knows the seal of said Company; that the seal affixed to said instrument is such corporate seal; that it was so affixed by order of the Board of Directors of said Company; and that he signed his name thereto by like order.




Jacquelyn Maldonado, Notary Public
My commission expires May 18, 2017

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

Given under my hand and the seal of said Company at Houston, Texas this 26 day of APRIL, 2015, A.D.


M. Brent Beaty, Assistant Secretary

Any instrument issued in excess of the penalty stated above is totally void and without any validity.
For verification of the authority of this power you may call (713) 812-0800 any business day between 8:00 am and 5:00 pm CST.

SureTec Insurance Company
THIS BOND RIDER CONTAINS IMPORTANT COVERAGE INFORMATION

Statutory Complaint Notice

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

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

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

PO Box 149104
Austin, TX 78714-9104
Fax#: 512-475-1771
Web: <http://www.tdi.state.tx.us>
Email: ConsumerProtection@tdi.state.tx.us

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

Terrorism Risks Exclusion

The Bond to which this Rider is attached does not provide coverage for, and the surety shall not be liable for, losses caused by acts of terrorism, riot, civil insurrection, or acts of war.

**Exclusion of Liability for
Mold, Mycotoxins, Fungi & Environmental Hazards**

The Bond to which this Rider is attached does not provide coverage for, and the surety thereon shall not be liable for, molds, living or dead fungi, bacteria, allergens, histamines, spores, hyphae, or mycotoxins, or their related products or parts, nor for any environmental hazards, bio-hazards, hazardous materials, environmental spills, contamination, or cleanup, nor the remediation thereof, nor the consequences to persons, property, or the performance of the bonded obligations, of the occurrence, existence, or appearance thereof.

2015-2660

08/21/2015 09:44 AM

8755 1/2 HARLEM RD

Applicant:
PANORAMA CMT
TALAL MANSURI

Paid By: Applicant

PANORAMA CMT
TALAL MANSURI
822 DURAHM, SUITE 100 HOUSTON, TX

Permit Type

Type	Fee
Commercial Driveway Permit (\$150)	\$150.00
Total	\$150.00

Payments

Payment ID	Payment Date	Payment Type	Description	Ref. Number	Amount
668421	08/21/2015	Check	commercial driveway	7812	\$150.00
Total					\$150.00
Discount Total					(\$0.00)
Payment Amount					\$150.00
Balance Due					\$0.00

THIS IS NOT A PERMIT. This receipt does not authorize you to begin construction of your project.