

REVIEW BY FORT BEND COUNTY
COMMISSIONERS COURT

Fort Bend County
Engineering Department
301 Jackson Suite 401
Richmond, Texas 77469
281.633.7500
Permits@fortbendcountytexas.gov

☐ Right of Way Permit
☒ Commercial Driveway Permit
Permit No: 2017-12551

Applicant: 5 J Services, LLC.

Job Location Site: 3727 1/2 Harvest Corner Drive, Richmond, TX 77406

Bond No. 500000507 **Date of Bond:** 3/31/2017 **Amount:** \$5,000.00

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

Notes:

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

On this 25th day of April, 2017, Upon Motion of Commissioner Meyers, seconded by Commissioner Morales, duly put and carried, it is ORDERED, ADJUDGED AND DECREED that said notice of said above purpose is hereby acknowledged by the Commissioners Court of Fort Bend County, Texas, and that said notice be placed on record according to the regulation order thereof.

Signature

Presented to Commissioners Court and approved.

By:

Charles O. Ay

for County Engineer

Date Recorded 5-2-2017 Comm. Court No. 13X

N/A

By:

Drainage District Engineer/Manager

Clerk of Commissioners Court

By:

Janet Willis
Deputy



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

**Fort Bend County
Engineering Department**
301 Jackson Suite 401
Richmond, Texas 77469
281.633.7500
Permits@fortbendcountytexas.gov

☐

Right of Way Permit

☒

Commercial Driveway Permit

Permit No: 2017-12551

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

(1) COMPLETE APPLICATION FORM:

☒

a. Name of road, street, and/or drainage ditch affected.

☒

b. Vicinity map showing course of directions

☒

c. Plans and specifications

(2) BOND:

☐

County Attorney, approval when applicable.

☐

Perpetual bond currently posted.

Bond No: _____

Amount: _____

☒

Performance bond submitted.

Bond No: XXXXXXXXXX

Amount: \$5,000.00

☐

Cashier's Check

Check No: _____

Amount: _____

(3) DRAINAGE DISTRICT APPROVAL (WHEN APPLICABLE):

Drainage District Approval

Date

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

Charles O. Ay

Permit Administrator

4/17/17

Date

34

4 PGS
BOND

2017046624

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

BOND NO. [REDACTED]
THE STATE OF TEXAS §
COUNTY OF FORT BEND §

KNOW ALL MEN BY THESE PRESENTS:

25407 Holly Oakes Ct.
Magnolia, TX 77355
THAT WE, 5J Services, LLC. whose address is Magnolia, TX 77355,
Texas, hereinafter called the Principal, and Liberty Mutual Insurance Company, a Corporation
existing under and by virtue of the laws of the State of Massachusetts and authorized to do an
indemnifying business in the State of Texas, and whose principal office is located at
, whose officer residing in the State of Texas, authorized to accept service in all suits and actions
brought within said State is Allen Knepper and whose address is 13201 NW Frwy, Ste. 810, Houston, TX 77040
hereinafter called the Surety, and held and firmly bound unto, James C. Adolphus, County
Judge of Fort Bend County, Texas, or his successors in office, in the full sum of
Dollars (\$ 5,000.00) current, lawful money of the United States of America, to be paid to said
James C. Adolphus, County Judge of Fort Bend County, Texas, or his successors in office, to
which payment well and truly to be made and done, we, the undersigned, bind ourselves and
each of us, our heirs, executors, administrators, successors, assigns, and legal representatives,
jointly and severally, by these presents.

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

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

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

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

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

EXECUTED this 31st day March of, 20 17.

5J Services, LLC.

PRINCIPAL

BY [Signature]

Liberty Mutual Insurance Company

SURETY

BY Michelle Ulery, Attorney in Fact

I:\Web Page\Pre-web Documents and Images\Word Documents\Engineering\PERFBOND.P01.doc

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

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

Certificate No. 6937698

American Fire and Casualty Company
The Ohio Casualty Insurance Company

Liberty Mutual Insurance Company
West American Insurance Company

POWER OF ATTORNEY

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

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

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Companies and the corporate seals of the Companies have been affixed thereto this 7th day of April, 2015.



STATE OF PENNSYLVANIA ss
COUNTY OF MONTGOMERY

On this 7th day of April, 2015, before me personally appeared David M. Carey, who acknowledged himself to be the Assistant Secretary of American Fire and Casualty Company, Liberty Mutual Insurance Company, The Ohio Casualty Insurance Company, and West American Insurance Company, and that he, as such, being authorized so to do, execute the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

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



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

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

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

By: Teresa Pastella
Teresa Pastella, Notary Public

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

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

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

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

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

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

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 31st day of March, 20 17.



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

Not valid for mortgage, note, loan, letter of credit, currency rate, interest rate or residual value guarantees.

To confirm the validity of this Power of Attorney call 1-610-832-8240 between 9:00 am and 4:30 pm EST on any business day.



TEXAS IMPORTANT NOTICE

To obtain information or make a complaint:

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

You may also write to:

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

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

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

PREMIUM OR CLAIM DISPUTES:

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

ATTACH THIS NOTICE TO YOUR POLICY:

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

TEXAS AVISO IMPORTANTE

Para obtener informacion o para someter una queja:

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

Usted tambien puede escribir a:

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

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

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

DISPUTAS SOBRE PRIMAS O RECLAMOS:

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

UNA ESTE AVISO A SU POLIZA:

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

FILED AND RECORDED
OFFICIAL PUBLIC RECORDS

Laura Richard

Laura Richard, County Clerk
Fort Bend County, Texas

May 01, 2017 03:45:01 PM

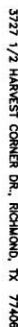
FEE: \$0.00 CR1
BOND

2017046624



CONFORMED DOCUMENTS

INDEX OF DRAWINGS



Telephone No. (832-394-9098)

JONES CARTER

Texas Board of Professional Engineers Registration No. 1-439
6330 West Loop South, Suite 150 - Beekins, TX 77401 - 713.777.5537

SHEET
No: 1 of 24

DOI: 10.1002/for

FORT BEND COUNTY M.U.D. No. 134D - HARVEST GREEN LIFT STATION No. 2

J|C JONES | CARTER
Texas Board of Professional Engineers Registration No. 1-426

CONFIRMED DOCUMENTS

FORBEND COUNTY CONSTRUCTION - GENERAL NOTES

- [illegible]

2. Contractor shall notify First Band County Enforcement Department at least 48 hours prior to commencing construction and 48 hour notice is only construction activity within the limits of the permit at Construction@firstbandcounty.com.
3. Contractor is responsible for obtaining all permits required from First Band County prior to commencing construction of any improvements within County right of way.
4. All Paving Improvements shall be constructed in accordance with First Band County Rules, Regulations, Ordinances relating to the Approval and Acceptance of Improvements in the County's right of way.
5. All road widths, curb radii and curb alignment shown indicates back of curb.
6. A continuous longitudinal reinforcing bar shall be used in the curbs.
7. All concrete pavement shall be 3 inch steel cement with a minimum compressive strength of 5000 psi at 28 days. Transverse expansion joints shall be installed at each curb return and at the end of each pavement section.

8. All vehicle stops to all existing streets and through lanes shall be maintained at all times.
9. A "12" reinforced concrete curb shall be placed in Total of Single Family lots only. All other areas shall be 6" reinforced concrete curb.
10. At all intersection locations, Type 7 curbs shall be placed in accordance with TPOD Part-120 (see Appendix D). All concrete curbs shall be finished with a broom finish and shall be installed with steel pointing at all intersections and comply with A.D.A. specifications.
11. Chain barriers are required at curb connections to Handicap Ramps, with no construction point within 5' of ramps.
12. All intersections using Traffic Control measures shall have A.D.A. wheel curb ramps installed.
13. Curb cuts are set forth in "Access Manual on Uniform Traffic Control Devices" as currently amended, shall be observed. The Contractor shall be responsible for providing adequate lighting, signing, striping and warning devices, etc., during construction - both day and night.

Street name directional device.

15. Uniform color signage shall be on a 9" high sign that reads w/reflective green background:

16. Blue Diamond Reflectized button shall be placed on all Fire Hydrant locations. The Button shall be placed 12 inches off the centerline of the street on the same side as the hydrant.

Note: Fort Bend County notes supersede any conflicting notes.

BATHAM TWP
CITY OF FORT BEND

DATE: 08-07-2018

DOI: 10.1002/for

INSTRUMENT IDENTIFICATION LETTERS:

[illegible]

EQUIPMENT ABBREVIATIONS:

38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556
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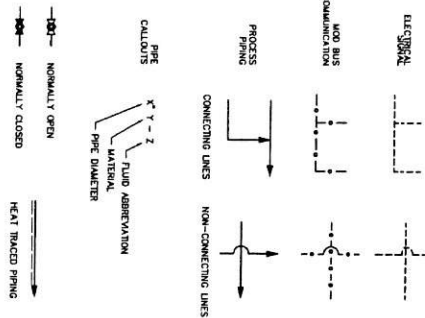
FLUID ABBREVIATIONS:

1	AS	WATER
2	SA	WATER
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4	SA	WATER
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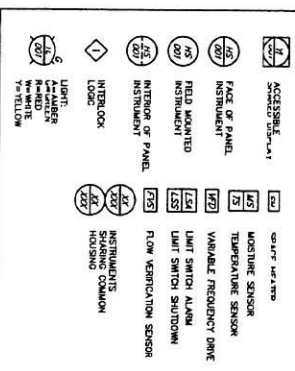
GENERAL ABBREVIATIONS

DO	DISSEMINATED	STRENGTH
EL	ELEVATION	STRENGTH
EA	ENTRANCE	AMMUNITION
FL	FISHED FLOOR	
FT	FEET	
F/S	FEET PER SECOND	
GA	GALLONS PER GAY	
GR	GALLONS PER HOUR	
GRH	GALLONS PER HOUR	
GRH	GALLONS PER MINUTE	
HQA	HAND OFF AUTO	
HP	HORSE POWER	
HS	HIGH SPEED	
LS	LOW SPEED	
LP	LOW PRIORITY PANEL	
MA	MILITARY FEET	
MC	MILITARY FEET	
MONO	MONOCHROME	
NC	NORMALLY CLOSED	
NO	NORMALLY OPEN	
SST	STAINLESS STEEL	
TAA	TOTAL AVAILABLE	
TAC	TOTAL AVAILABLE	
TDC	TOTAL DYNAMIC HEAD	
TDR	TYPE OF DRAIN	
TDR	TYPE OF DRAIN	
TOS	TOP OF SLAB	
TOS	TOP OF WALL	
Y	YARDS	

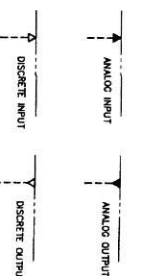
INSTRUMENT LINE SYMBOLS



**INSTRUMENT & FUNCTION
SYMBOLS:**



PROGRAMMABLE LOGIC CONTROLLER



NOTE

For Electrical & Instrumentation Only

Nation's
2/24/11

NOTE:
Process

For Process Only
Buttaya A. Mue
2/24/19



C.O.H. LOG No. 16-0009

CDI BUS REC. JAN 2004

DEVELOPMENT COORDINATOR
x 1/20/14 4/28/14

FORT BEND COUNTY M.U.D. No. 134D
FORT BEND COUNTY, TEXAS

JONES CARTER
Team Based Professional Engineers Registration No. 1-479
6100 West Loop South, Suite 150 • Dallas, TX 77461 • 714.777.5337

P&ID LEGEND
SHEET 1 OF 2

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

STW	Δ-Luck 2.55.16	Idas/A. 2.25.16
CHART & PHOTO		

DATE: FEBRUARY 2016
FROM: MR. WIS

	NO SOLF
	(17) Amount : 9/10/11

600

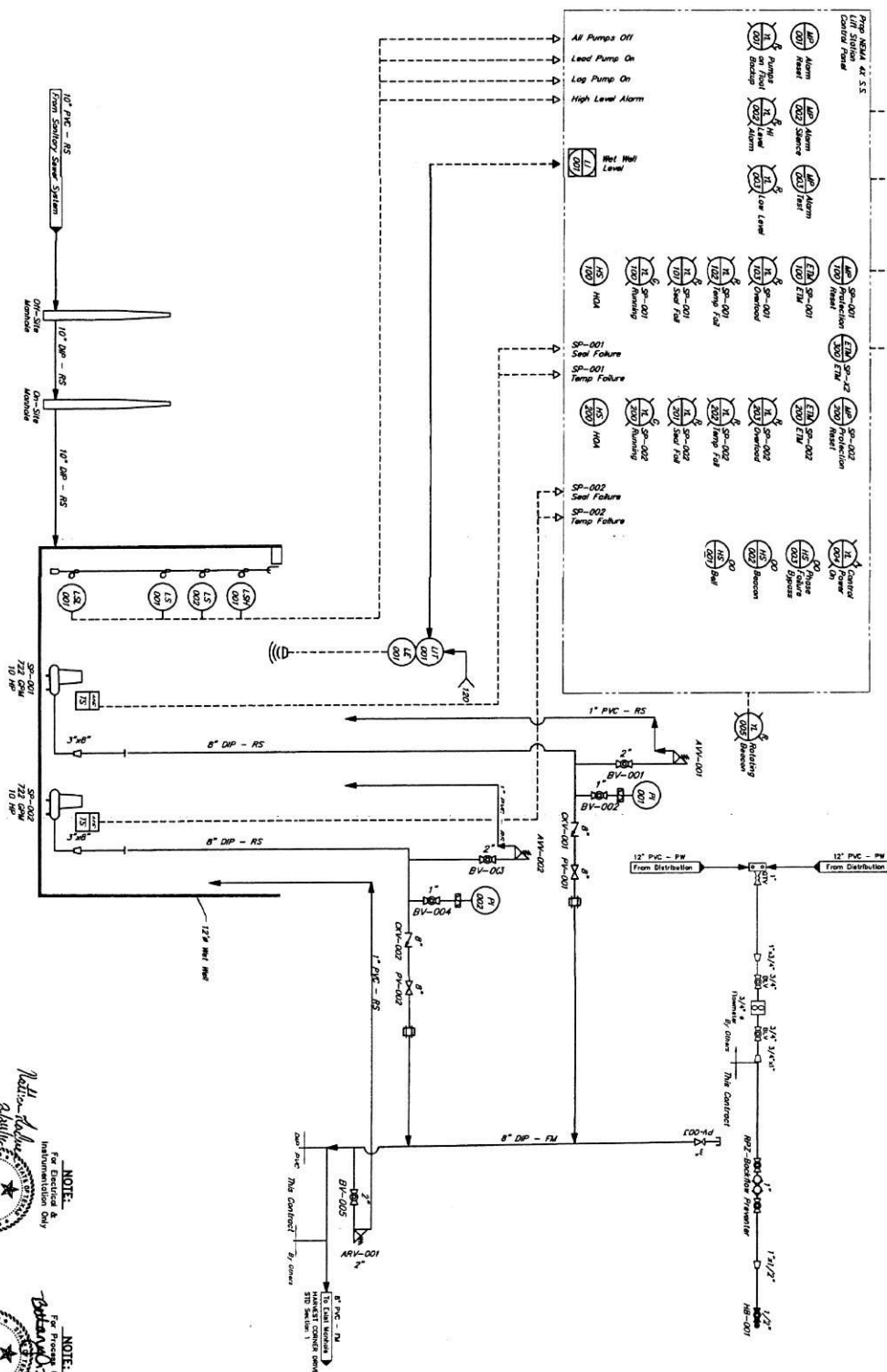
MISCELLANEOUS
SYMBOLS:

	PLUG VALVE (NORMALLY OPEN)		480 VAC ELECTRICAL SUPPLY		PROPORTIONAL TYPE FLOW METER		DISCHARGE AIR FILTER		ROTARY LOBE/ DISPLACEMENT BLOWER		MAN VALVE
	PLUG VALVE (NORMALLY CLOSED)		240 VAC ELECTRICAL SUPPLY		TURBINE FLOW METER		DISCHARGE SILENCER		MOTOR		WEE STRAINER
	BALL VALVE (NORMALLY OPEN)		120 VAC ELECTRICAL SUPPLY		DRAIN		HEAT TRACING		VERTICAL TURBINE BOOSTER PUMP		MOTOR
	BALL VALVE (NORMALLY CLOSED)		CURRENT TRANSFORMER		DRAIN INLET (SCREENED)		WAPORTION TANK/STATION		SUBMERGIBLE PUMP		DOUBLE CHECK BACKFLOW PREVENTER
	GATE VALVE (NORMALLY OPEN)		ELECTRICAL OUTLET		TUBING ADAPTER		ANALYZER		CENTRIFUGAL PUMP (SELF PRIMING)		LOCAL DISCONNECT
	GATE VALVE (NORMALLY CLOSED)		ELECTRICAL PLUG		FLEXIBLE COUPLING		INJECTOR		CENTRIFUGAL PUMP (NET POS)		FOOT VALVE
	NEEDLE VALVE (NORMALLY OPEN)		ULTRASONIC LEVEL TRANSDUCER		EXPANSION COUPLING		EJECTOR		CENTRIFUGAL PUMP (SELF PRIMING)		EMERGENCY FIRE WASH & SHOWER
	NEEDLE VALVE (NORMALLY CLOSED)		SUBMERGIBLE TRANSDUCER		QUICK CONNECT THREADED CAP		HEAT EXCHANGER		CENTRIFUGAL COMPRESSOR OR BLOWER		PERFORATED PLATE
	ANGLE VALVE (NORMALLY OPEN)		FLAOT SWITCH PICO COATED WEIGHT		UNION		FLOW STRAINER		RECIPROCATING COMPRESSOR (DISPLACEMENT)		OPEN CONTROL DEVICE
	ANGLE VALVE (NORMALLY CLOSED)		FLANGED CONNECTION		AIR LIFT PUMP		PULSATION DAMPER		ROTARY LOBE/ DISPLACEMENT BLOWER		TRAVELING BRIDGE CRANE
	THREE-WAY VALVE (NORMALLY OPEN)		PLUG VALVE (NORMALLY OPEN)		VALVE CAP & GROOVE QUICK COUPLING		STATIC MIXER		POSITIVE DISPLACEMENT BLOWER		
	THREE-WAY VALVE (NORMALLY CLOSED)		PLUG VALVE (NORMALLY CLOSED)		ANNULAR DAMPPACK SEAL		RUPTURE DISK (VACUUM RELIEF)		DUAL PISTON PUMP		
	AIR RELEASE VALVE		SLEW GATE (NORMALLY OPEN)		AIR INTAKE FILTER		PLATE & FRAME HEAT EXCHANGER		SCREW PUMP		
	HOSE PRESSURE RELIEF VALVE		SLEW GATE (NORMALLY CLOSED)		PULSATION DAMPER		DEAERATING VALVE		POSITIVE DISPLACEMENT PUMP		
	ANGLE PRESSURE RELIEF VALVE		PILOT GATE (NORMALLY OPEN)		SINGLE DROP COARSE AIR DIFFUSERS (PLAN)		BULK STORAGE TANK		HOSE PUMP		
	SOLENOID VALVE		PILOT GATE (NORMALLY CLOSED)		SURGED COARSE AIR DIFFUSERS (PLAN)		DOUBLE WALLED BULK STORAGE TANK		SCALED METERING PUMP		
	BACKPRESSURE REGULATOR (SELF-CONTAINED)		FULL GATE (NORMALLY CLOSED)		WELL SCREEN STRAINER				PROGRESSIVE CAVITY PUMP		
	BACKPRESSURE REGULATOR W/EXTERNAL PRESSURE TAP		UNDERFLOW BAFFLE		BASKET STRAINER				ORIFICE PUMP		
	PRESSURE REDUCING VALVE (NORMALLY OPEN)		V-NOTCH WEIR		DOUBLE STRAINER						
	PRESSURE REDUCING VALVE (NORMALLY CLOSED)										
	FLOW CONTROL VALVE										
	VACUUM REGULATING VALVE										
	PUMP CONTROL / BACKPRESSURE VALVE										

NOTE:
For Electrical & Instrumentation Only
HARVEST GREEN LIFT STATION
FACILITY

NOTE:
For Process Only
HARVEST GREEN LIFT STATION
FACILITY

CITY OF HOUSTON
 JONES CARTER
 FORT BEND COUNTY MUD NO. 1340
 FORT BEND COUNTY, TEXAS
 HARVEST GREEN LIFT STATION NO. 2
 PAID LEGEND
 SHEET 2 OF 2
 DATE: 11/11/11
 SCALE: AS SHOWN
 SHEET NO. 5 OF 21
 58618



NOTE:
For Electrical & Instrumentation Only

Heater-Rodriguez
2/24/16



STATE OF TEXAS
DEPARTMENT OF CRIMINAL JUSTICE
INMATE E. LUGEN
TIERED

NOTE: *Return to Mr. [illegible]*
For Process Only

RECEIVED
JAN 23 1973
BETHANY A. MALLIN
NATIONAL
LABORER

C.O.H. LOG No. 18-0009

DATE REC'D. JAN 2008

11/25/11
DEVELOPMENT COORDINATION

[illegible]

LEGEND
 CLAS. CAPT. RICH AND
 F.A.C.F. FORT BEND COUNTY CLERK RE
 R.A.M. RICHMOND A. MORTON

Background:
 1. The subject was prepared without the benefit of a Commissioned Surveyor, which may reveal other mistakes and disclosed on the map, which may not be subject to the same level of review as a professional surveyor's work. The map is intended for use as a guide only and should not be relied upon for legal purposes.
 2. According to FEMA Flood Insurance Rate Map (FIRM) No. 17001-01-0001, dated April 22, 2014, the surveyed tract lies in the unshaded area, which is not a Special Flood Hazard Area (SFHA).
 3. The subject was prepared without the benefit of a Commissioned Surveyor, which may reveal other mistakes and disclosed on the map, which may not be subject to the same level of review as a professional surveyor's work. The map is intended for use as a guide only and should not be relied upon for legal purposes.
 4. The subject was prepared without the benefit of a Commissioned Surveyor, which may reveal other mistakes and disclosed on the map, which may not be subject to the same level of review as a professional surveyor's work. The map is intended for use as a guide only and should not be relied upon for legal purposes.
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NOTE: ELEVATIONS SHOWN WERE OBTAINED FROM GPS/RTK OBSERVATIONS AND UTILIZED GEOTRACK.

Notes:

1. This subject was prepared without the benefit of a Commissioned Surveyor, which may reveal other mistakes and disclosed on the map, which may not be subject to the same level of review as a professional surveyor's work. The map is intended for use as a guide only and should not be relied upon for legal purposes.
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This is to certify that this map represents the boundary of the proposed Harvest Green Lift Station No. 2 site as provided by Clark, Jones & Carter, L.P.

Clark, Jones & Carter, L.P.
 10000 West Loop South, Suite 100
 Houston, Texas 77042
 Phone: 713.866.1111
 Fax: 713.866.1112
 Email: info@clarkjonescarter.com
 Website: www.clarkjonescarter.com



CLARK, JONES & CARTER, L.P.
 LAND SURVEYING CONSULTANTS
 LICENSE NO. 10000
 EXPIRATION DATE 12/31/2024
 10000 West Loop South, Suite 100
 Houston, Texas 77042
 Phone: 713.866.1111
 Fax: 713.866.1112
 Email: info@clarkjonescarter.com
 Website: www.clarkjonescarter.com

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 FOR: [Signature]

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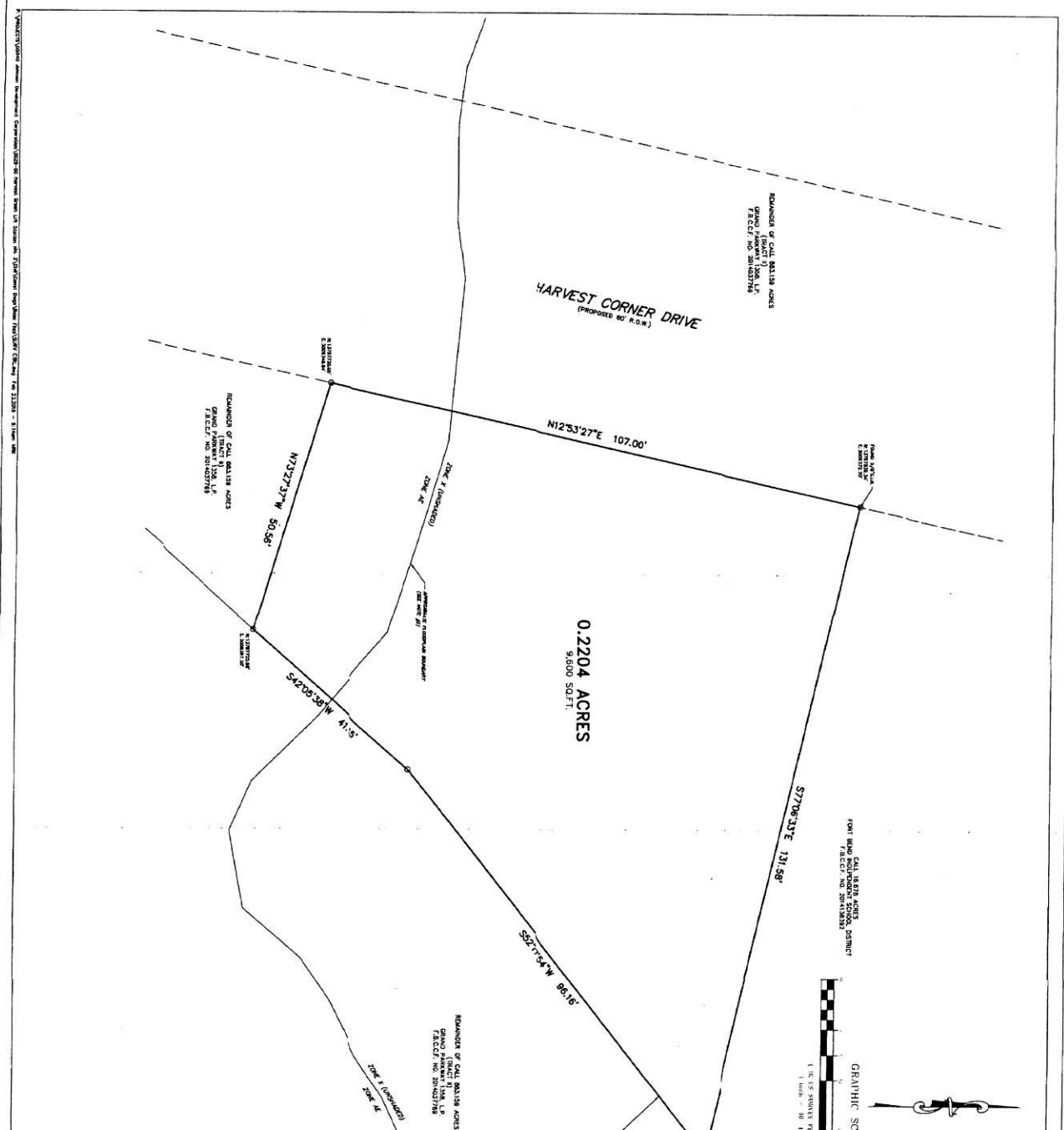
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0.2204 ACRES
 BRING LOCATED IN THE
 WILLIAM MORTON ONE AND ONE-HALF
 (1-1/2) LEAGUE GRANT, A-62
 FORT BEND COUNTY, TEXAS





	AC	SCORE TO DRAIN
	CF	CLERK'S FILE
	CFM	CUBIC FEET PER MINUTE
	CL2	CHLORINE
	DP	DUCTILE IRON PIPE
	UE	UTILITY EASEMENT
	SE	SANITARY SEWER EASEMENT
	BL	BULKHEAD EASEMENT
	W.E.	WATERLINE EASEMENT
	MA	MANHOLE
	FLUSH VALVE	
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		

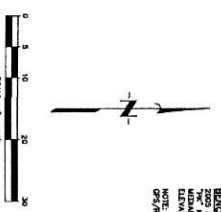
Contours shown based on proposed grading elevations in "Construction of Horvath Corner Bridge" plans dated Jan 14, 2016 by JonesCort and approved by Fort Bend County Engineering on Jan 28, 2016

FBI CITY OF HOUSTON DISTRICT
CITY DMC NO.

FILE NO:	208
DOS NO:	056-04-0079
DATE RECEIVED:	2015
SCALE BY:	MAY
DMC RT:	NED
SCALE:	1" = 20'-0"
SHEET NO:	8 OF 24

55618

APPROVED: J. GARCIA



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

	MANHOLE
	GRATE TOP IN
	SERVICE POLE
	FLOODLIGHT

$$\frac{1.5}{4.2} = 0.357$$

Call 3875 Acres (90-E)
State Highway And Public
Transportation Commission
Drainage Easement for Highway
Purpose
FBOC No.
9144628

FORT BEND COUNTY M.U.D. N
FORT BEND COUNTY, TEXA

JONES CARTER
 J/C
 Trusts Board of Mechanical Engineers Registration No. 1-435
 4120 West Loop South, Suite 150 • Dallas, TX 75240 • 714.777.5337

PROPOSED SITE LAYOUT

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

DATE	2-25-16	INDEXED	2-25-16
RECEIVED	2-25-16	FILED	2-25-16
CLERK & REC'D			

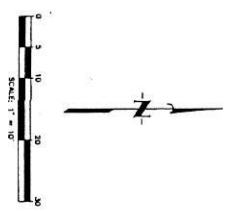
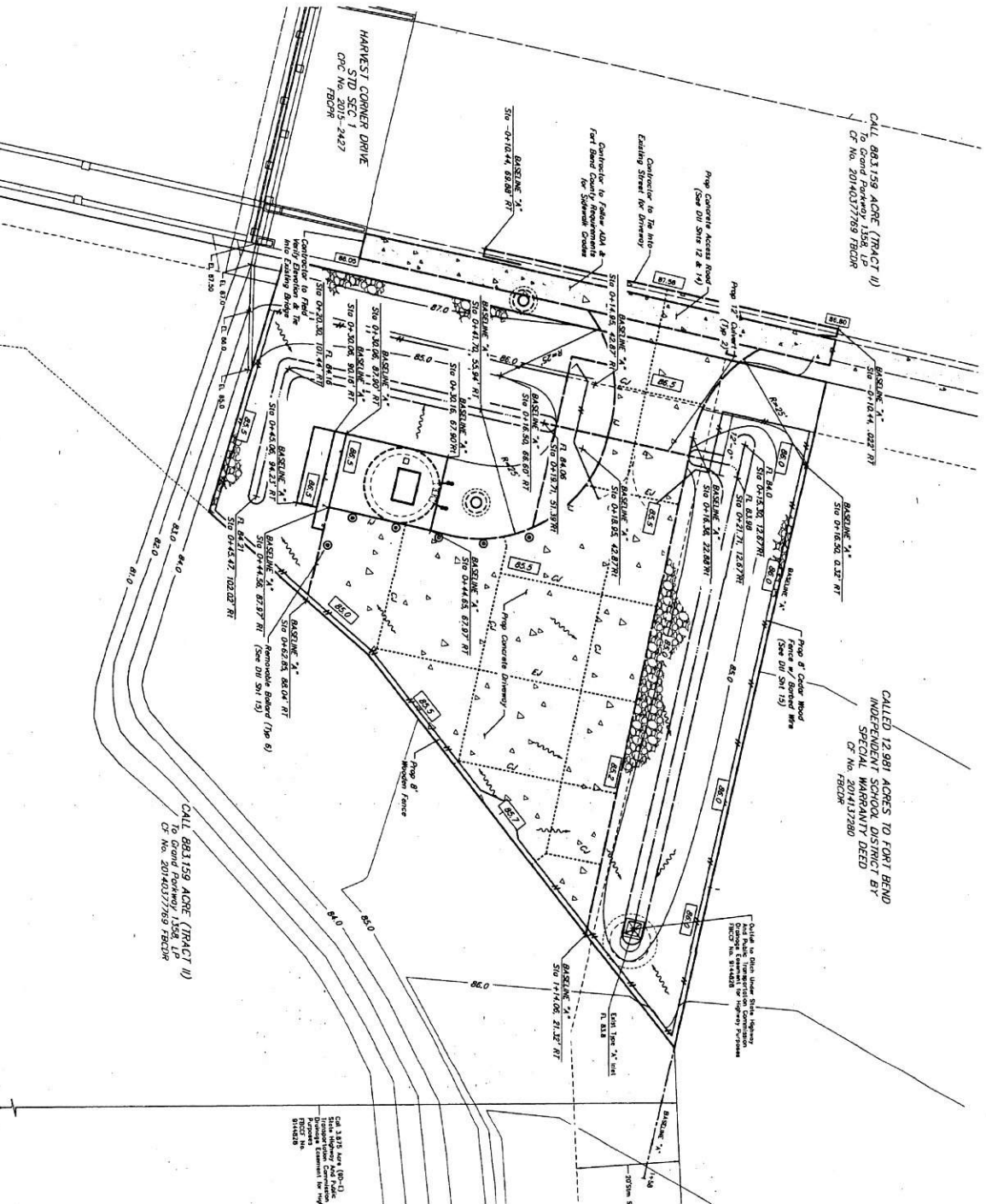
FILE NO. 05540-0029
JOS NO. 05540-0029
DATE: FEBRUARY 2016

FOR LIST OF MODIFICATIONS, SEE ONLY
CITY ENG. NO.

SCALE: 1"=10'-0"

C.O.H. LOG No. 16-0009

CONTRACT NO. 100

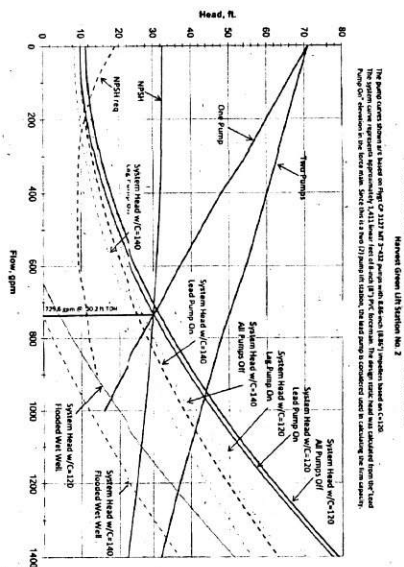


- LEGEND:**
- EDGE OF PAVEMENT
 - WOODEN FENCE DITCH
 - BOUNDARY LINE
 - PROPOSED UNDERGROUND PIPING
 - ISOLATION JOINT
 - EXPANSION JOINT
 - FINAL GRADE ELEVATIONS

NOTE:
 This plan illustrates drainage, paving, and grading details for the property shown. It is based on the survey and field data provided. The owner is responsible for obtaining all necessary permits and approvals from the appropriate authorities. The plan is not to be used for any other purpose without the written consent of the engineer.



CITY OF HOUSTON DEPARTMENT OF PUBLIC WORKS AND ENGINEERING DIVISION OF ENGINEERING DATE: 12/16/16 SCALE: 1" = 10'-0" SHEET NO. 10 OF 21		JONES CARTER ENGINEER 1515 FORT BEND COUNTY ROAD NO. 1340 FORT BEND COUNTY, TEXAS 77433 PHONE: (281) 291-1111 FAX: (281) 291-1112
PROJECT: DRAINAGE, PAVING & GRADING HARVEST GREEN LIFT STATION NO. 2		CLIENT: CITY OF HOUSTON 1515 FORT BEND COUNTY ROAD NO. 1340 FORT BEND COUNTY, TEXAS 77433 PHONE: (281) 291-1111 FAX: (281) 291-1112



ULTIMATE DESIGN - PUMP DATA

PUMP DATA		1 PUMP OPERATING (C=10)	1 PUMP OPERATING (C=10)
FLOW (GPM)	722	788	
TDM (T1)	50	26.5	
HP	8.6	8.7	
RP4	17.55	17.25	
EFFICIENCY (%)	50	50	
MIN SIZE PASSING (IN)	3	3	

LIFT STATION No. 2

RISING LEVEL CYCLE		
ELEVATION	ACTION	PUMP(S) IN OPERATION
56.00	PUMPS OFF LEVEL	ALL PUMPS OFF
59.50	LEAD PUMP RUNS ON	LEAD PUMP ON
61.00	HIGH LEVEL, ALARM	LEAD & LAG PUMP ON
FALLING LEVEL CYCLE		
ELEVATION	ACTION	PUMPS IN OPERATION
61.00	HIGH LEVEL, ALARM OFF	LEAD PUMP ON
58.00	ALL PUMPS RUNS OFF	ALL PUMPS OFF

NOTES:

Consultation with manufacturer with automatic pumps to ensure grout in wet well is outside the min required clearance area for pump.


CONFORMED DOCUMENTS

1. The cost of connecting new service shall be provided by the owner. Contractor shall provide and install all necessary shobs, conduits, conductors, fittings and other equipment necessary to energize the lift station.
2. All hardware and miscellaneous metal inside well wall shall be stainless steel.
3. Transducer not shown in profile view for clarity. See Detail Sheet 22 for profile.

JUST SAY NO

- | | |
|------|--------------------------------|
| (22) | 2" Air Release Valve |
| (23) | 2" Air & Vacuum Valve |
| (24) | 2" Pressure Gauge |
| (25) | 2" Ball Valve |
| (26) | Base Elbow by Pump Supplier |
| (27) | 8" Blind Flange |
| (28) | 8" Reinforced Coupling Adapter |
| (29) | 8"x8" Tee, FJ |
| (30) | 8"x45" Bend, FJ |
| (31) | 8"x3" Eccentric Reducer, FJ |
| (32) | 8"x60" Bend, FJ |
| (33) | 8"x90" Bend, MJ |
| (34) | 8" Sailing Check Valve, FJ |
| (35) | 8" Eccentric plug valve, FJ |

PLACING NOTES

1. All Pipes to be Ductile Iron Pipe (DIP) Unless Otherwise Noted.
2.  Denotes the Use of a Restored, Push-On Connection, Restored, Mechanical Joint Connection.
3. Unless Otherwise Noted on the Construction Drawings, All Pipe Centered in Wells Shall Have a Well Flange. All Well Flanges Shall be Cast-in-Place with Structural Concrete or Cased in Brick-Cuts with Non-Shrink Grout.

DEVELOPMENT COORDINATOR

[illegible]

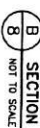
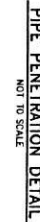
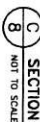
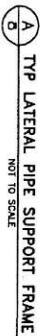
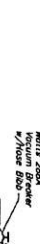
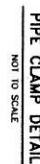
PROPOSED LIFT STATION PLAN & PROFILE

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

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

C.O.H. LOG No. 16-0009





1. Concrete anchor bolts shall have 6" minimum diameter and extend 4" above the minimum steel.
2. See station and structural drawings for dimensions and information not shown.
3. Drill 3/8" holes 1" off $\frac{1}{2}$ of CG at midspan between lateral pipe supports to allow for drainage. 3 holes per channel where 1 lateral support is required.
4. Set 1 1/4" neoprene gaskets on end surface in S&B (or equal) sealant.



CURB, PAVING & UTILITY WORK'S UNIT CURB TYPE STREETS COMMERCIAL AREA	DATE DRAIN: 2-1-94	DATE REISED: 11-1-95
	APPROVED BY: L. MOOD DATE: 2-1-94	DRAWING NO. FBC-025A

FORT BEND COUNTY ENGINEERING DEPARTMENT

DEVELOPMENT COORDINATOR
4/22/12

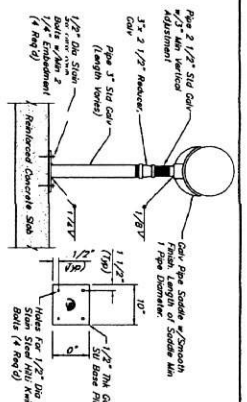
FORT BEND COUNTY M.U.D., TEXAS
FORT BEND COUNTY, TEXAS

JONES CARTER
 210
 830 West 4th Avenue • Suite 1000 • Denver, CO 80202 • (303) 733-1333
 HARVEST GREEN LIFT STATION No. 2
 MISCELLANEOUS DETAILS
 SHEET 1 OF 4

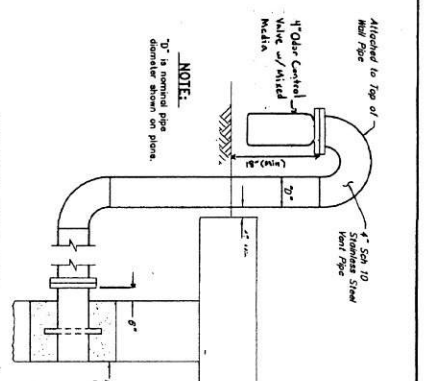
CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING
2/28/11

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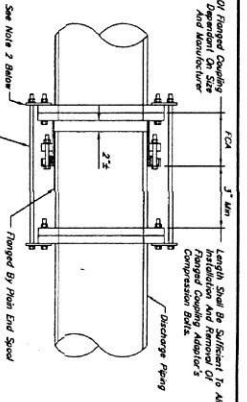
2004 RELEASE UNDER E.O. 14176



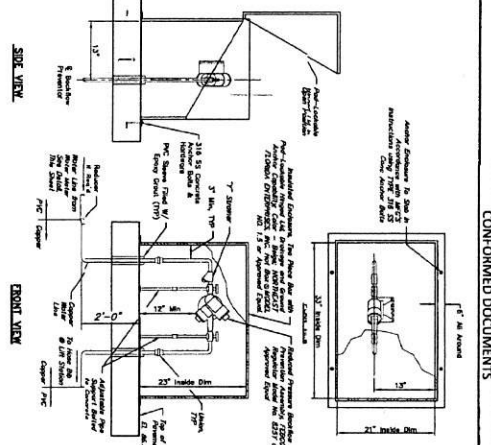
ADJUSTABLE STEEL PIPE SUPPORT
NOT TO SCALE



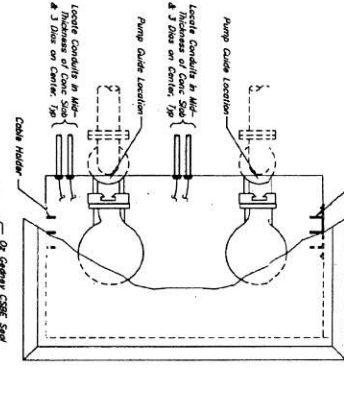
WET WELL VENT DETAIL
NOT TO SCALE



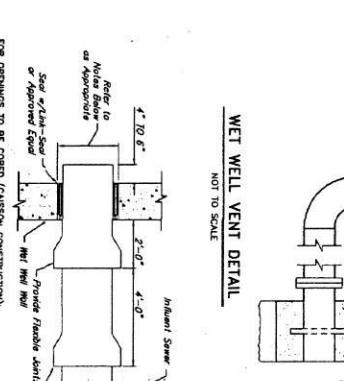
TYPICAL FLANGED COUPLING ADAPTOR RESTRAINT DETAIL
NOT TO SCALE



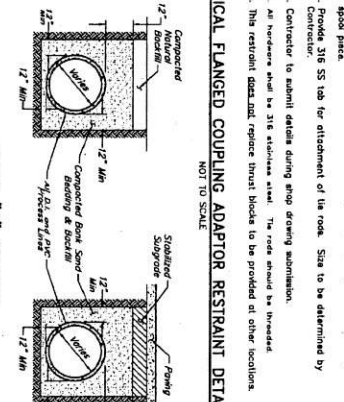
REDUCED PRESSURE BACKFLOW PREVENTER INSTALLATION
NOT TO SCALE



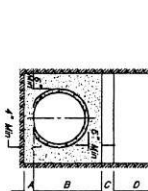
TYP PUMP LIFTING & CABLE DETAIL
NOT TO SCALE



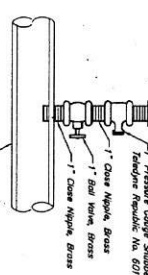
TYP INFLUENT SEWER ENTRY DETAIL
NOT TO SCALE



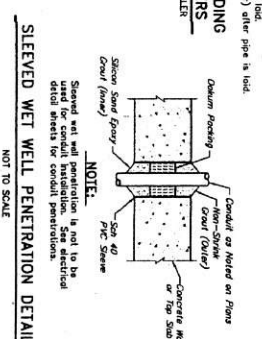
CLASS "C" BEDDING FOR PIPE SEWERS
NOT TO SCALE



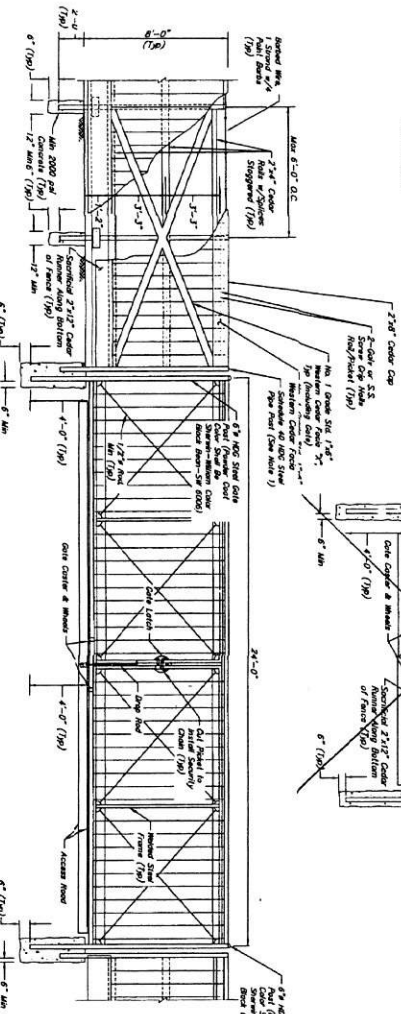
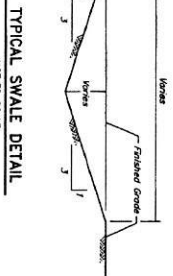
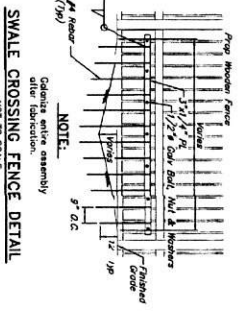
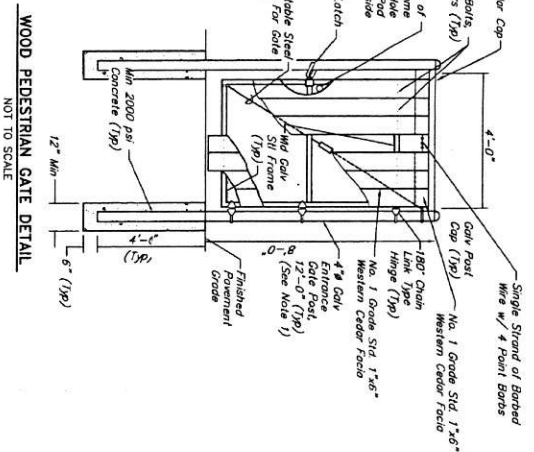
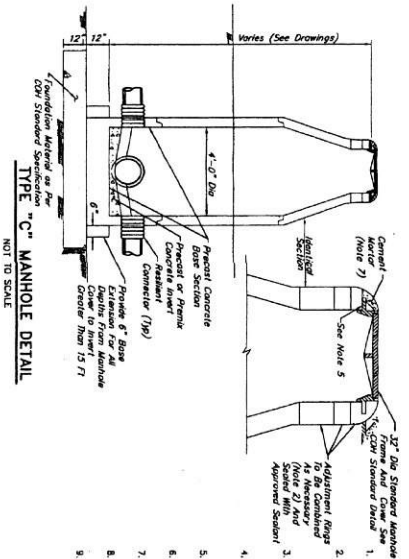
CLASS "AA" BEDDING FOR PIPE SEWERS
NOT TO SCALE



PRESSURE GAUGE W/DIAPHRAGM SEAL DETAIL
NOT TO SCALE



SLEEVED WET WELL PENETRATION DETAIL
NOT TO SCALE

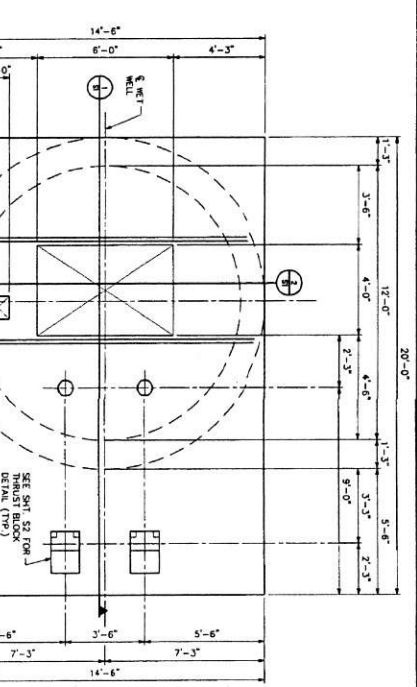
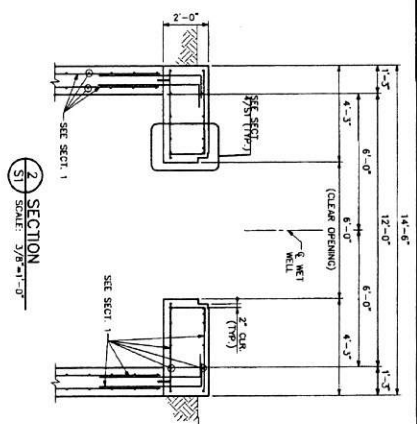


FENCE & GATES NOTES:

1. All fence posts shall be set in concrete. Posts shall be set in concrete. Posts shall be set in concrete.
2. Hardware used to attach fence pickets to posts shall be galvanized steel.
3. One (1) strand of barbed wire with 4 point barbs shall be installed inside and outside to the top of the fence.

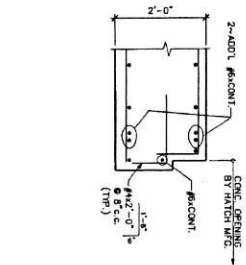
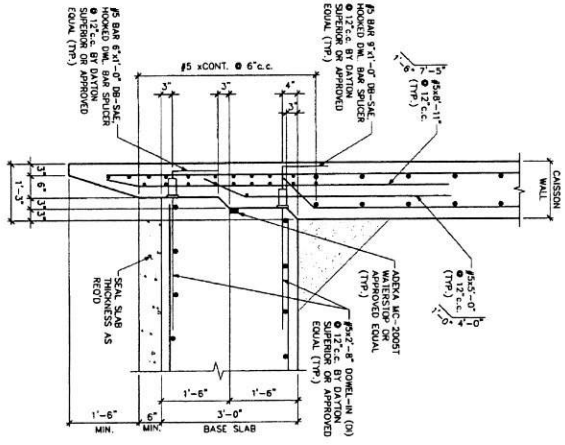
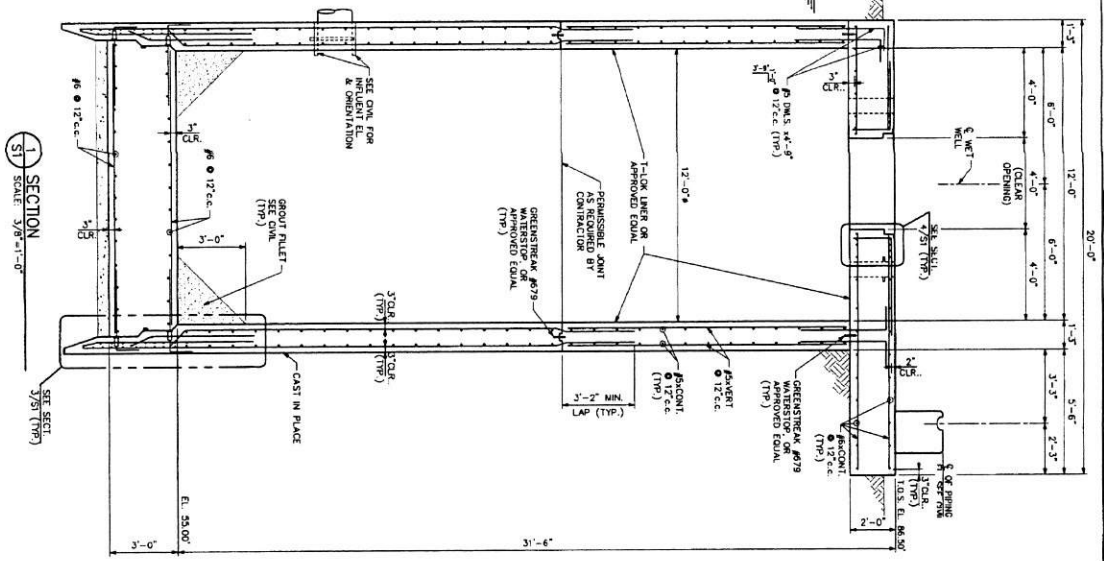


CITY OF HOUSTON DEPARTMENT OF PUBLIC WORKS AND ENGINEERING HARVEST GREEN UFT STATION NO. 2 FORT BEND COUNTY, TEXAS JONES/CARTER SHEET 4 OF 4 MISCELLANEOUS DETAILS		DATE: 10/20/2011 DRAWN BY: JMC SCALE: AS SHOWN SHEET NO. 15 OF 24
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BUOYANCY CHECK	
HEAD LOAD/1.1	238 KIPS
BUOYANCY	315 KIPS
RESISTANCE	238 KIPS

LIFT STATION PLAN N
3/8" = 1'-0"



STANLEY SPURLING & HAMILTON, INC. Consulting Engineering Services 2008 Cedar Street, Suite 200 Houston, Texas 77002 Phone 713/779-4333 Fax 713/779-4333 C-MAIL: 800/800-4333 001-713-779-4333		STANLEY SPURLING & HAMILTON, INC. 1340 FORT BEND COUNTY ROAD NO. 1340 FORT BEND COUNTY, TEXAS
CITY OF HOUSTON DEPARTMENT OF PUBLIC WORKS AND ENGINEERING 1100 FORT BEND COUNTY ROAD NO. 1340 FORT BEND COUNTY, TEXAS		J.C. JONES/CARTER 1100 FORT BEND COUNTY ROAD NO. 1340 FORT BEND COUNTY, TEXAS
PROJECT NO. 16 OF 21 SHEET NO. 16 OF 21 DATE: 10/15/11 SCALE: 3/8" = 1'-0" DRAWN BY: J.C. JONES CHECKED BY: J.C. JONES SCALE: 3/8" = 1'-0" DATE: 10/15/11		TITLE: CITY STATIONING, WARD ONE, YEAR ONE DATE: 10/15/11 SCALE: 3/8" = 1'-0" DATE: 10/15/11

CONFORMED DOCUMENTS

i.

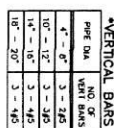
- THIRTEEN**

1

U-TENSILE DEVELOPMENT LENGTH FOR RODS BARS WITH FT = 60 KSI		
BAR SIZE	TENSION DEVELOPMENT LENGTH TO PROPS	
3	15	
4	19	
5	24	
6	29	
7	42	
8	48	
9	54	
10	61	
11	87	



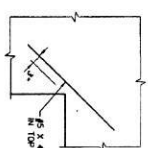
ELEVATION



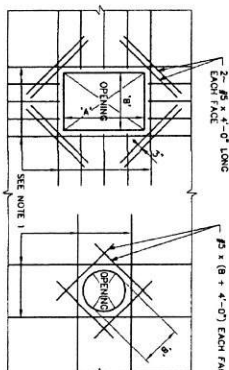
#5 x 4'-6"
(TYP. EA.



BE PLACED AT ALL INSIDE
CORNERS IN SLABS.



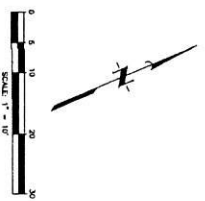
AL METHOD USING DC



BEING WOUND STEEL IS CONTINUOUS THROUGH CONSTRUCTION JOINT.

ADDITIONAL REINFORCING STEEL

C.O.H. LOG No 16-0005



CONDUIT		WIRES		DESCRIPTION	FROM	TO	MULCH RANK
NO.	SIZE	POWER	GROUND/CONTROL				
1	1/2"	B-B	#	UTILITY POWER	UTILITY CO. POWER POLE	METER DISCONNECT	A
2	1/2"	B-B	#	INCOMING SERVICE	METER DISCONNECT	METER DISCONNECT	A
3	1/2"	B-B	#	INCOMING SERVICE	METER DISCONNECT	METER DISCONNECT	A
4	1/2"	B-B	#	UTILITY STATION CONTROL PANEL POWER	METER DISCONNECT	UTILITY STATION CONTROL PANEL	-
5	1/2"	B-B	#	OPERATOR RECEPTACLE POWER	UTILITY STATION CONTROL PANEL	OPERATOR RECEPTACLE	-
6	1"	B-B	#	UTILITY STATION CONTROL PANEL	UTILITY STATION CONTROL PANEL	UTILITY STATION CONTROL PANEL	B
7	1"	B-B	#	UTILITY STATION CONTROL PANEL	UTILITY STATION CONTROL PANEL	UTILITY STATION CONTROL PANEL	B
8	1"	B-B	#	UTILITY STATION CONTROL PANEL	UTILITY STATION CONTROL PANEL	UTILITY STATION CONTROL PANEL	B
9	1"	B-B	#	UTILITY STATION CONTROL PANEL	UTILITY STATION CONTROL PANEL	UTILITY STATION CONTROL PANEL	B
10	1"	B-B	#	UTILITY STATION CONTROL PANEL	UTILITY STATION CONTROL PANEL	UTILITY STATION CONTROL PANEL	B
11	1"	B-B	#	UTILITY STATION CONTROL PANEL	UTILITY STATION CONTROL PANEL	UTILITY STATION CONTROL PANEL	B
12	1"	B-B	#	UTILITY STATION CONTROL PANEL	UTILITY STATION CONTROL PANEL	UTILITY STATION CONTROL PANEL	B
13	1"	B-B	#	UTILITY STATION CONTROL PANEL	UTILITY STATION CONTROL PANEL	UTILITY STATION CONTROL PANEL	B

LEGEND:

ELECTRICAL DUCT BANK (SEE DTL SH1 23)
FLOODLIGHT (SEE DTL SH1 23)
GROUND WELL (SEE DTL SH1 23)
GROUND CONDUCTOR
SERVICE POLE (SEE DTL SH1 23)
ELECTRICAL DUCT BANK MARKER (SEE DTL SH1 23)
CARPET ELECTRICAL CONDUIT

NO.	DATE	REVISIONS	APPROVED

FORT BEND COUNTY M.U.D., No. 1340
FORT BEND COUNTY, TEXAS

JONES CARTER
HARVEST GREEN LIFT STATION No. 2
ELECTRICAL SITE LAYOUT

[illegible]

FILE NO. _____
JOS. MR. 0246-0028
DATE: FEBRUARY 2016
DOA BY: MOCA
DWC BY: MOCA
SCALE: 1" = 10'
SHEET NO. 18 OF 24

NOT FOR CONSTRUCTION USE ONLY
CITY OF LOS ANGELES
35618

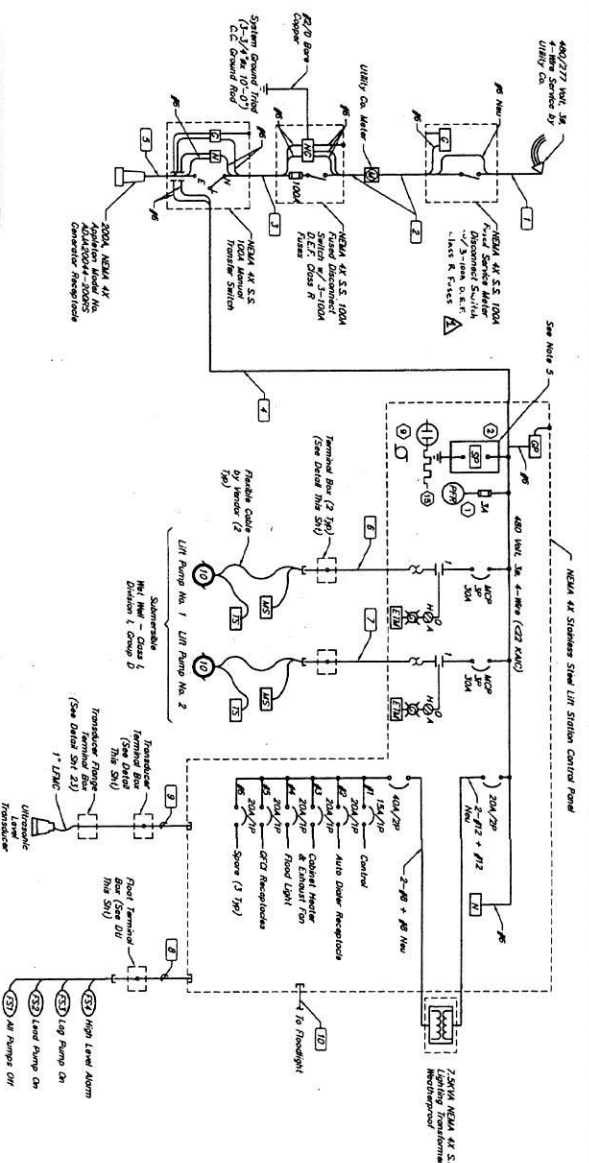
Kenilworth, N.J.
C.O.H. LOG No. 16-0005

C.O.H. LOG No. 16-00005

CON. 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 9

SYMBOL	DESCRIPTION
	MOTORIZED CASE CIRCUIT BREAKER
	COMBINATION MOTOR STARTER
	MAKE-BEFORE-BREAK SWITCH
	ELAPSED TIME METER
	PHASE FAILURE RELAY
	3 PHASE MOTOR (HORSEPOWER NOTE)
	SURGE SUPPRESSOR
	NEUTRAL BUS
	SPECIAL DEVICE (SEE SCHEDULE SMT 21)
	GROUND WELL (SEE DETAIL SMT 23)
	NEUTRAL GROUND PAD
	GROUND PAD
	NEUTRAL PAD
	FLUID SWITCH
	SERVO MOTOR STARTER
	TRANSFORMER
	SPACE HEATER
	LOCK STEP
	DELAYED TIME METER
	UTILITY COMPANY METER
	VENT FAN
	MODULATING LIGHT - COLOR AS INDICATED
	CABINET HEATER
	CONDUIT TIE (SEE CONDUIT SCHEDULE)

- LIFT STATION PROFILE NOTES:**
1. Ranges mounted vertically is not shown for clarity.
 2. Terminal boxes and latching on profile view are shown for reference. See Lateral Sheet 18 for location of terminal boxes and latching.

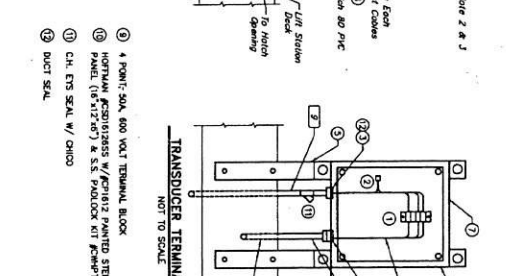
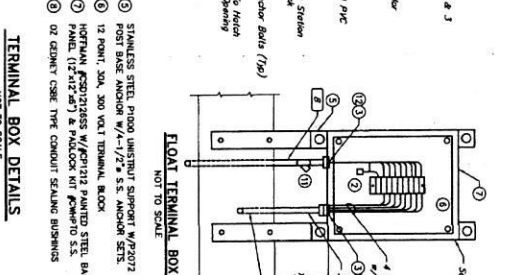
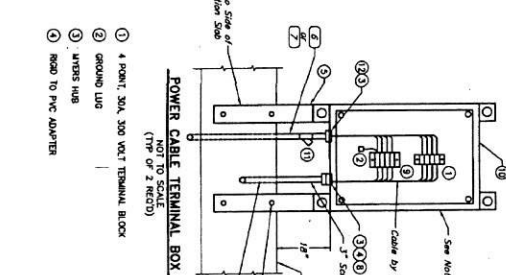
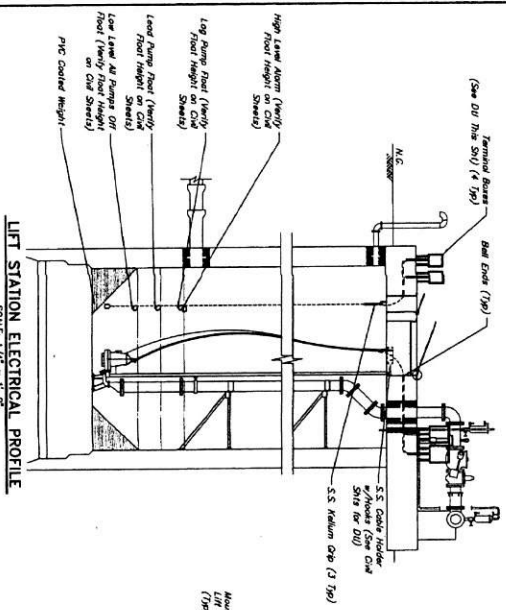


ELECTRICAL LOAD ANALYSIS

LOAD	9A	9B	9C
LIFT PUMP NO. 1	10 HP	14	14
LIFT PUMP NO. 2	10 HP	14	14
+ 120 LAMPS MOTOR CONTROL & LIGHTING (7.5 KW)	1.5	3.5	3.5
TOTAL LOAD	17.5	47.5	31.5
SERVICE CAPACITY @ 480 VOLTS, 3M, 4 WIRE	100	100	100
SPARE CAPACITY	82.5	52.5	68.5
CALCULATED FAULT CURRENT	< 22 KAC		

NOTES:

1. Verify pump protection conductor requirements. Furnish accordingly. If pump is supplied with separate cable for control panel, verify pump cable size for protection in 3" conduit above, increase size if required.
2. All terminal boxes to be NEKA 48 stainless steel.
3. Conductor to provide terminal boxes with nominal size of 1/16" thick. Latching and be gasket. 3/16" high length to exceed 2-1/2". Nomenclature should be white letters on black background.
4. Enclosure should be appropriate in size. Verify dimension equipment enclosure heater and cooling fan options to selected manufacturer.
5. Bond to system ground.



CITY OF HOUSTON
HARVEST GREEN LIFT STATION NO. 2
ELECTRICAL ONE-LINE DIAGRAM

JONES CARTER
FORT BEND COUNTY, TEXAS
FORT BEND COUNTY, TEXAS
FORT BEND COUNTY, TEXAS

DATE: 12/15/16
SCALE: AS SHOWN
SHEET NO. 19 OF 21
CCH, LOG No. 16-0009

CONTROL DIAGRAM

LEGEND

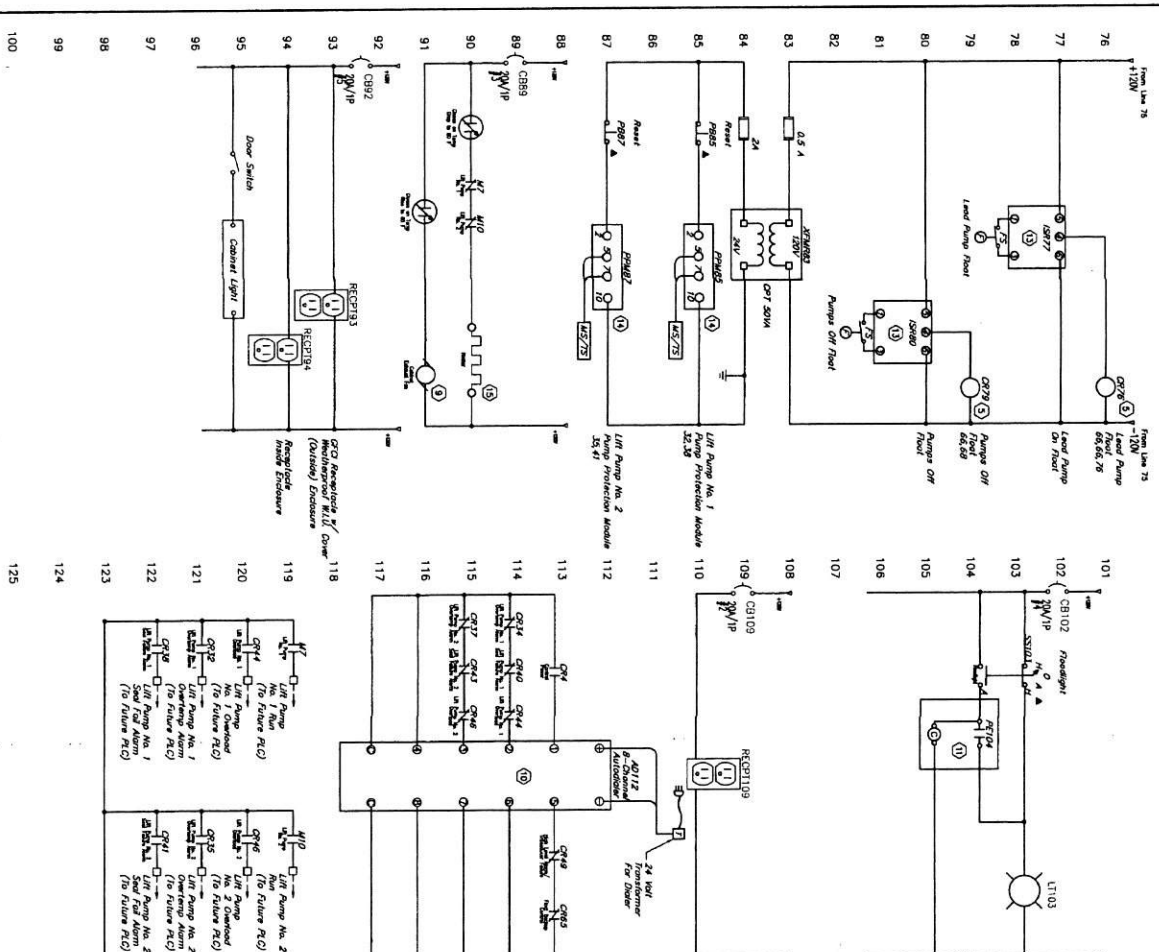
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	CIRCUIT BREAKER		NORMALLY OPEN CONTACT
	MAGNETIC MOTOR STARTER		NORMALLY CLOSED CONTACT
	CONTROL RELAY - POLE		INTERLOCKING CONTACT
	UNIVERSAL - POLE IN		INTERLOCKING CONTACT
	TIME DELAY RELAY		INTERLOCKING CONTACT
	SOLENOID VALVE		INTERLOCKING CONTACT
	INDICATING LIGHT: W-WHITE, R-RED, G-GREEN, L-LED		INTERLOCKING CONTACT
	THERMOSTAT		INTERLOCKING CONTACT
	ELAPSED TIME METER		INTERLOCKING CONTACT
	SPACE HEATER		INTERLOCKING CONTACT
	LOOK STOP		INTERLOCKING CONTACT
	CONTACT ON THE DELAY RELAY AFTER ENERGIZATION		INTERLOCKING CONTACT
	ON-OFF SWITCH		INTERLOCKING CONTACT
	PRESSURE SWITCH		INTERLOCKING CONTACT
	HOLDING COIL CONTACT		INTERLOCKING CONTACT
	NORMALLY OPEN - NORMALLY CLOSED		INTERLOCKING CONTACT
	INDUCTION RELAY		INTERLOCKING CONTACT

SPECIAL DEVICE SCHEDULE

ITEM	DESCRIPTION
1	PHASE FAILURE RELAY - OVERCURRENT
2	PHASE FAILURE RELAY - 480 VOLT, 3 PHASE
3	PHASE FAILURE RELAY - 480 VOLT, 3 PHASE
4	PHASE FAILURE RELAY - 480 VOLT, 3 PHASE
5	PHASE FAILURE RELAY - 480 VOLT, 3 PHASE
6	PHASE FAILURE RELAY - 480 VOLT, 3 PHASE
7	PHASE FAILURE RELAY - 480 VOLT, 3 PHASE
8	PHASE FAILURE RELAY - 480 VOLT, 3 PHASE
9	PHASE FAILURE RELAY - 480 VOLT, 3 PHASE
10	PHASE FAILURE RELAY - 480 VOLT, 3 PHASE
11	PHASE FAILURE RELAY - 480 VOLT, 3 PHASE
12	PHASE FAILURE RELAY - 480 VOLT, 3 PHASE
13	PHASE FAILURE RELAY - 480 VOLT, 3 PHASE
14	PHASE FAILURE RELAY - 480 VOLT, 3 PHASE
15	PHASE FAILURE RELAY - 480 VOLT, 3 PHASE

NOTES

- Contractor to provide space terminal blocks in control panel for future P.O. and shall wire discrete wiring as shown to terminal blocks.



CO. H. LOG No. 16-0009

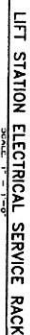
JONES CARTER
ELECTRICAL CONTROL
DIAGRAM SHEET 2 OF 2

CITY OF HOUSTON
HARVEST GREEN LIFT STATION No. 2

DATE: 10/1/2011
BY: [Signature]
SCALE: NONE

REVISIONS:

NO.	DATE	DESCRIPTION
1	10/1/2011	Initial Design
2	10/1/2011	Revised Design

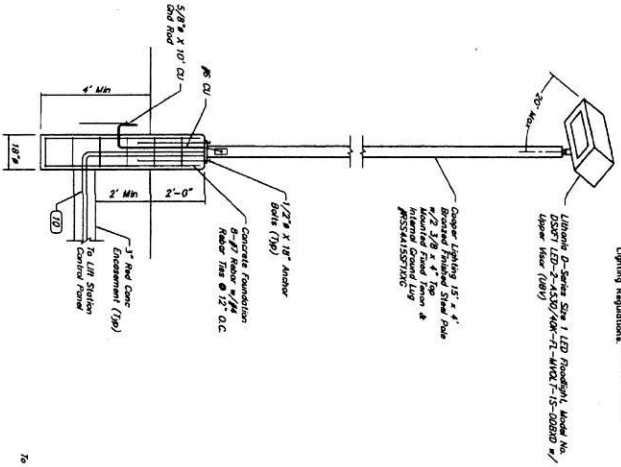


NOTE:

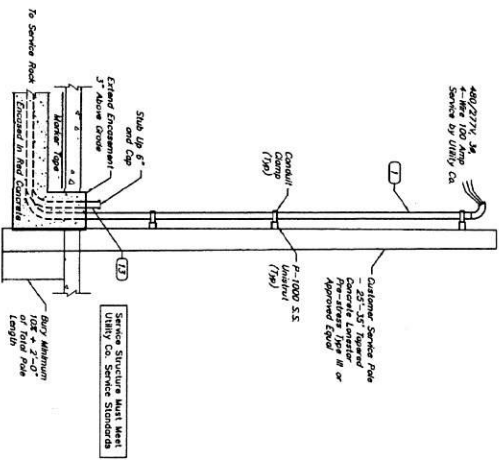
Nonmetallic shells be constructed from laminated plastic material a minimum of 1/16" thick. Letters shall be girth 3/16" high minimum, use two lines if description will cause length to exceed 2 1/2". All nonmetallic shells be white letters on red background, others shall be white letters on black background.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

[illegible]

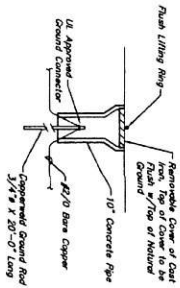
NOTE.
Light fixture to be oriented no more than 20 degrees from vertical except when per Fort Bend County Lighting Regulations.



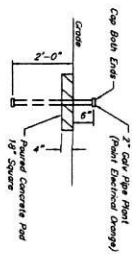
FLOODLIGHT DETAIL
NOT TO SCALE



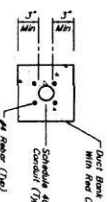
SERVICE POLE DETAIL
NOT TO SCALE



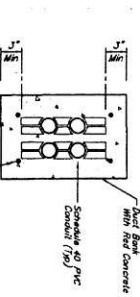
GROUND WELL DETAIL
NOT TO SCALE



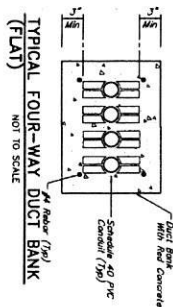
DUCT BANK MARKER DETAIL
NOT TO SCALE



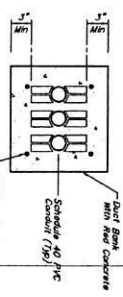
TYPICAL ONE-WAY DUCT BANK
NOT TO SCALE



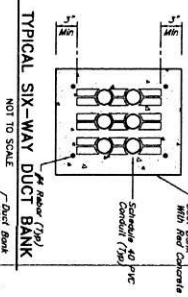
TYPICAL FOUR-WAY DUCT BANK (SQUARE)
NOT TO SCALE



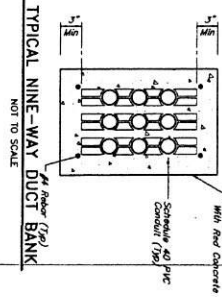
TYPICAL FOUR-WAY DUCT BANK (FLAT)
NOT TO SCALE



TYPICAL THREE-WAY DUCT BANK
NOT TO SCALE



TYPICAL SIX-WAY DUCT BANK
NOT TO SCALE



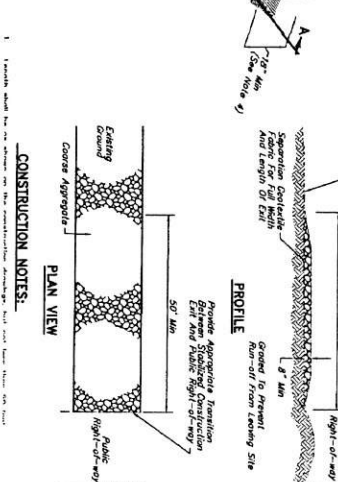
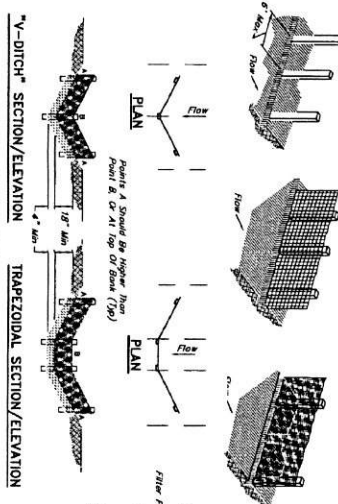
TYPICAL NINE-WAY DUCT BANK
NOT TO SCALE

DUCTBANK NOTES:
1. All power and instrumentation conductors shall be installed in separate duct banks. Power conductors must have a minimum of 12\"/>

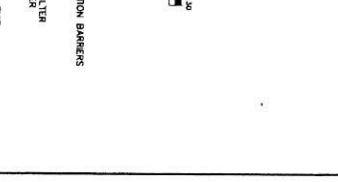


NOTED: 1/23/24
C.O.H. 100 No. 16-0000

CITY OF HOUSTON DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION 2100 West Loop West, Suite 1000, Houston, TX 77057-1200 281-261-2200		JONES CARTER Electrical Engineering 1000 West Loop West, Suite 1000, Houston, TX 77057-1200 281-261-2200
PROJECT: HARVEST GREEN LIGHT STATION NO. 2 SHEET: 2 OF 2		DATE: 1/23/24 DRAWN BY: N.E.L. CHECKED BY: N.E.L. SCALE: AS SHOWN



BRUZZED



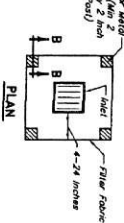
NOT TO SCALE

1. Set 24 24" wooden stakes spaced a maximum of 6' apart & marked 12" min.
2. Women wear leotards to be oriented securely to fence posts with slings.
3. Filter cloth to be installed to even wear twice with leotards every 24" at top & midsection
4. Minimum height of filter should be 18" & a maximum of 36" down mature ground
5. When two sections of filter cloth adjoin each other, they shall be overlapped 6" at the posts &

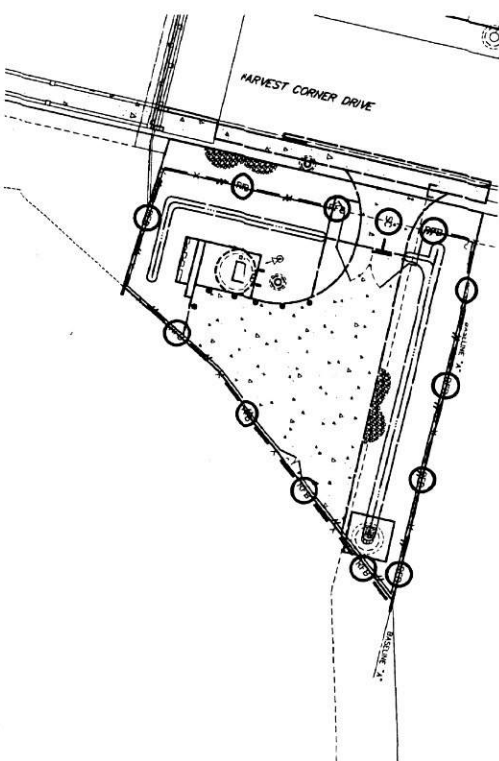
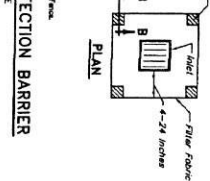
MANHOLE / INLET PROTECTION NOTES:

- [illegible]

12



NOT TO SCALE



Pratik
DEVELOPMENT COORDINATOR
x/1/25/16

[illegible]