

REVIEW BY FORT BEND COUNTY COMMISSIONERS COURT

On this 27th day of October, 2015, Commissioners Court came on to be heard and reviewed the accompanying notice of Reddico Construction Company, Inc. Job Location 2962 Greenbusch, Katy, TX 77494 Date 10/13/2015 Bond No. 70117948, Permit No. 2015-3579 to make use of certain Fort Bend County property subject to, "A Revised Order Regulating the Laying, Construction, Maintenance, and Repair of Buried Cables, Conduits, and Pole Lines, In, Under, Across or Along Roads, Streets, Highways, and Drainage Ditches in Fort Bend County, Texas, Under the Jurisdiction of the Commissioners Court of Fort Bend County, Texas," as passed by the Commissioners Court of Fort Bend County, Texas the 3rd day of August, 1987, recorded in Volume _____ of the Minutes of the Commissioners Court of Fort Bend County, Texas, to the extent that such order is not inconsistent with Article 1436a, Vernon's Texas Civil Statutes. Upon Motion of Commissioner Meyers, seconded by Commissioner Paterson, 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: Rich J Stangle, PE, PTOE
FOR County Engineer

Presented to Commissioners Court and approved.
Recorded in Volume 10-27-15
Minutes of Commissioners Court

By: N/A
Drainage District Engineer/Manager

Clerk of Commissioners Court
By: Jonda Wilkins
Deputy

County of Fort Bend
Engineering Department

301 Jackson Street
Richmond, Texas 77469

Johnny Ortega
Permit Administrator

Phone: (281) 633-7500

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

Permit No. 2015-3579

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: 70117948
- Amount: \$25,000.00
- Cashier's Check
- No: _____
- Amount: _____
- (3) Verbal permission given for emergencies, to start construction before approved in Commissioner's Court.

Precinct Engineer Acknowledgment _____
Date

Precinct Commissioner Acknowledgment _____
Date

(4)

Drainage District Approval when applicable

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

 CFM

Johnny Ortega CFM/Permit Administrator

10/21/2015

Date

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

AUTHORIZED

BOND NO 70117948

THE STATE OF TEXAS

§

KNOW ALL MEN BY THESE PRESENTS:

COUNTY OF FORT BEND

§

THAT WE, Reddico Construction Co., Inc. whose address is 10083 Airport Road, Conroe, Texas 77303 Texas, hereinafter called the Principal, And The Guarantee Company of North America USA, a Corporation existing under and by virtue of the laws of the state of Michigan and authorized to do an indemnifying business in the state of Texas, and whose principal office is located at One Towne Square, #1470, Southfield, Michigan 48076, whose officer residing in the State of Texas, authorized to accept service in all suits and actions brought whining said state is Richard Sauer and Whose address is 350 Glenborough Dr., #138, Houston, TX 77067, 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 Twenty-Five Thousand and No/100 Dollars (\$ 25,000.00) current, lawful money of the United States of America, to be paid to said Robert E. Hebert, County Judge of Fort Bend County, Texas, or his successors in office, to which payment well and truly to be made and done, we, the undersigned, bind ourselves and each of us, our heirs, executors, administrators, successors, assigns, and legal representatives, jointly and severally, by these presents.

THE CONDITION OF THIS BOND IS SUCH THAT, WHEREAS, the above bounden principal contemplates laying, constructing, maintaining and/or repairing one or more cables, conduits, and/or pole lines in, under, across and/or along roads, streets and highways, 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 12th day of October, 20 15.

Reddico Construction Co., Inc.

PRINCIPAL

BY Michael A. Gruy, Executive Vice President

The Guarantee Company of North America USA

SURETY

BY Nancy T. Berry, Attorney-In-Fact



The Guarantee Company of North America USA
Southfield, Michigan

POWER OF ATTORNEY

KNOW ALL BY THESE PRESENTS: That THE GUARANTEE COMPANY OF NORTH AMERICA USA, a corporation organized and existing under the laws of the State of Michigan, having its principal office in Southfield, Michigan, does hereby constitute and appoint

Richard D. Bright, Nancy T. Berry, Steven W Berry, Kimberly J. Smith
Guaranty Insurance Services, Inc.

its true and lawful attorney(s)-in-fact to execute, seal and deliver for and on its behalf as surety, any and all bonds and undertakings, contracts of indemnity and other writings obligatory in the nature thereof, which are or may be allowed, required or permitted by law, statute, rule, regulation, contract or otherwise.

The execution of such instrument(s) in pursuance of these presents, shall be as binding upon THE GUARANTEE COMPANY OF NORTH AMERICA USA as fully and amply, to all intents and purposes, as if the same had been duly executed and acknowledged by its regularly elected officers at the principal office.

The Power of Attorney is executed and may be certified so, and may be revoked, pursuant to and by authority of Article IX, Section 9.03 of the By-Laws adopted by the Board of Directors of THE GUARANTEE COMPANY OF NORTH AMERICA USA at a meeting held on the 31st day of December, 2003. The President, or any Vice President, acting with any Secretary or Assistant Secretary, shall have power and authority:

1. To appoint Attorney(s)-in-fact, and to authorize them to execute on behalf of the Company, and attach the Seal of the Company thereto, bonds and undertakings, contracts of indemnity and other writings obligatory in the nature thereof; and
2. To revoke, at any time, any such Attorney-in-fact and revoke the authority given, except as provided below
3. In connection with obligations in favor of the Florida Department of Transportation only, it is agreed that the power and authority hereby given to the Attorney-in-Fact includes any and all consents for the release of retained percentages and/or final estimates on engineering and construction contracts required by the State of Florida Department of Transportation. It is fully understood that consenting to the State of Florida Department of Transportation making payment of the final estimate to the Contractor and/or its assignee, shall not relieve this surety company of any of its obligations under its bond.
4. In connection with obligations in favor of the Kentucky Department of Highways only, it is agreed that the power and authority hereby given to the Attorney-in-Fact cannot be modified or revoked unless prior written personal notice of such intent has been given to the Commissioner – Department of Highways of the Commonwealth of Kentucky at least thirty (30) days prior to the modification or revocation.

Further, this Power of Attorney is signed and sealed by facsimile pursuant to resolution of the Board of Directors of the Company adopted at a meeting duly called and held on the 6th day of December 2011, of which the following is a true excerpt:

RESOLVED that the signature of any authorized officer and the seal of the Company may be affixed by facsimile to any Power of Attorney or certification thereof authorizing the execution and delivery of any bond, undertaking, contracts of indemnity and other writings obligatory in the nature thereof, and such signature and seal when so used shall have the same force and effect as though manually affixed.



IN WITNESS WHEREOF, THE GUARANTEE COMPANY OF NORTH AMERICA USA has caused this instrument to be signed and its corporate seal to be affixed by its authorized officer, this 23rd day of February, 2012.

THE GUARANTEE COMPANY OF NORTH AMERICA USA

Stephen C. Ruschak, Vice President

Randall Musselman, Secretary

STATE OF MICHIGAN
County of Oakland

On this 23rd day of February, 2012 before me came the individuals who executed the preceding instrument, to me personally known, and being by me duly sworn, said that each is the herein described and authorized officer of The Guarantee Company of North America USA; that the seal affixed to said instrument is the Corporate Seal of said Company; that the Corporate Seal and each signature were duly affixed by order of the Board of Directors of



Cynthia A. Takai
Notary Public, State of Michigan
County of Oakland
My Commission Expires February 27, 2018
Acting in Oakland County

IN WITNESS WHEREOF, I have hereunto set my hand at The Guarantee Company of North America USA offices the day and year above written.

I, Randall Musselman, Secretary of THE GUARANTEE COMPANY OF NORTH AMERICA USA, do hereby certify that the above and foregoing is a true and correct copy of a Power of Attorney executed by THE GUARANTEE COMPANY OF NORTH AMERICA USA, which is still in full force and effect.



IN WITNESS WHEREOF, I have thereunto set my hand and attached the seal of said Company this 12th day of October, 2015.

Randall Musselman, Secretary





THE
GUARANTEE

The Guarantee Company of North America USA

One Towne Square, Suite 1470

Southfield, Michigan 48076

Phone: 248-281-0281 Fax: 248-750-0431

Texas Consumer Notice

1 IMPORTANT NOTICE

To obtain information or make a complaint:

2 You may contact your **agent** at:

3 You may call The Guarantee Company of North America USA's toll-free telephone number for information or to make a complaint at: 1-866-328-0567

4 You may also write to The Guarantee Company of North America USA at:

One Towne Square, Suite 1470

Southfield, Michigan 48076

Web: www.gcna.com

E-mail: Info@gcna.com

Fax: 248-750-0431

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

6 You may write the Texas Department of Insurance:

P.O. Box 149104

Austin, TX 78714-91 04

Fax: (512) 475-1771

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

E-mail: ConsumerProtection@tdi.state.tx.us

7 PREMIUM OR CLAIM DISPUTES:

Should you have a dispute concerning your premium or about a claim you should contact the (agent) (company) (agent or the company) first. If the dispute is not resolved, you may contact the Texas Department of Insurance.

8 ATTACH THIS NOTICE TO YOUR POLICY:

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

AVISO IMPORTANTE

Para obtener informacion o para someter una q ueja:

Puede comunicarse con su **agent** al

Usted puede llamar al numero de telefono gratis de The Guarantee Company of North America USA's para informacion o para someter una queja al: 1-866-328-0567

Usted tambien puede escribir a to The Guarantee Company of North America USA:

One Towne Square, Suite 1470

Southfield, Michigan 48076

Web: www.gcna.com

E-mail: Info@gcna.com

Fax: 248-750-0431

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

Puede escribir al Departamento de Seguros de Texas:

P.O. Box 149104

Austin, TX 78714-91 04

Fax: (512) 475-1771

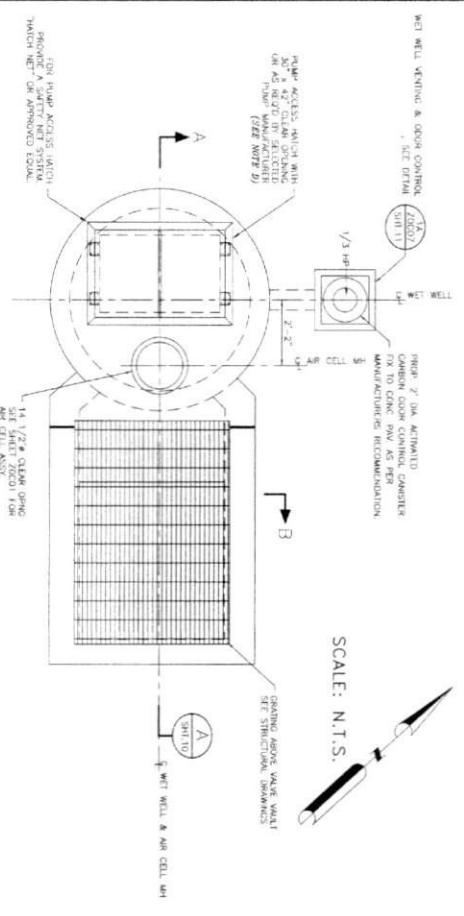
Web: <http://www.tdi.state.tx.us>

E-mail: ConsumerProtection@tdi.state.tx.us

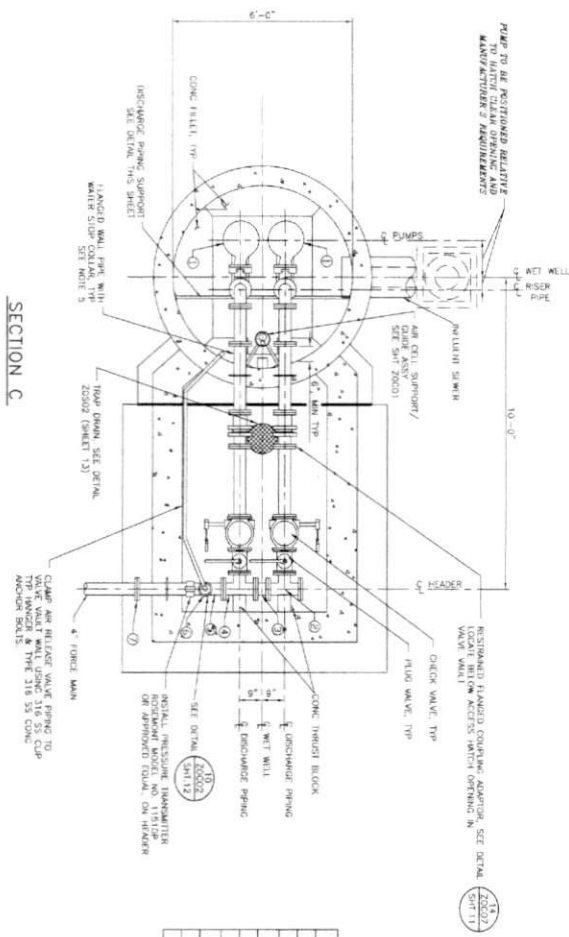
DISPUTAS SOBRE PRIMAS O RECLAMOS:

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

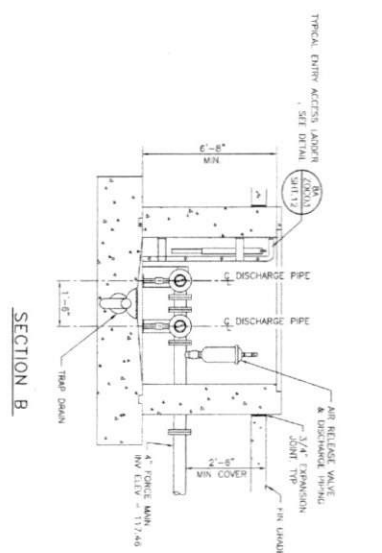
UNA ESTE AVISO A SU POLIZA: Este aviso es solo para proposito de informacion y no se convierte en parte o condicion del documento adj unto.



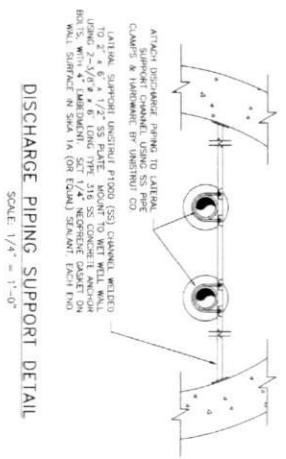
PLAN VIEW @ GRADE



SECTION C



SECTION B



DISCHARGE PIPING SUPPORT DETAIL

PIPING AND FITTINGS SCHEDULE		
MARK	SIZE/TYPE	DESCRIPTION
1	KSB Amarex NF 80-22003ALUG-150 or Equivalent	As Per Pump Manufacturer
2	4"x4" FE/FE	D.1 Tee & Blind Flange
3	4" FE/FE	D.1 Spool Piece
4	4"x4" FE/FE	D.1 Tee
5	4" FE/FE	D.1 Spool Piece
6	4" FE/FE	Air and Vacuum Release Valve (See Detail)
7	4" FE/FE	D.1 Wall Flanged Wall Pipe and Waterstop Collar

CD2

NOTES

- SEE LIST AND SPECIFICATIONS FOR MATERIALS AND DIMENSIONS NOT SHOWN.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS.
- VERIFY ALL DIMENSIONS AND ELEVATIONS BEFORE CONSTRUCTION.
- PROTECT ALL EXISTING UTILITIES AND STRUCTURES.
- INSTALL ALL PIPING AND FITTINGS IN ACCORDANCE WITH THE SCHEDULE.
- TEST ALL PIPING SYSTEMS BEFORE COVERING.
- MAINTAIN ACCESS TO ALL UTILITIES AND STRUCTURES.
- PROTECT ALL ADJACENT PROPERTIES AND INFRASTRUCTURE.
- INSTALL ALL CURBS AND GUTTERS AS SHOWN.
- PAINT ALL METAL SURFACES AS SPECIFIED.
- INSTALL ALL FINISHES AS SHOWN.
- PROTECT ALL EXISTING LANDSCAPE AND PLANTING.
- INSTALL ALL SIGNAGE AND MARKINGS AS SHOWN.
- MAINTAIN ALL RECORDS AND DRAWINGS.
- COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS.

REVISIONS

NO.	DATE	DESCRIPTION
1	11/16/15	ISSUED FOR PERMITS

DESIGNED BY: *[Signature]*
CHECKED BY: *[Signature]*
DATE: 11/16/15

City of Houston
 Department of Public Works and Engineering
 1100 West 19th Street, Houston, TX 77019
 (713) 858-2000

Contract No. 2015-0000000000

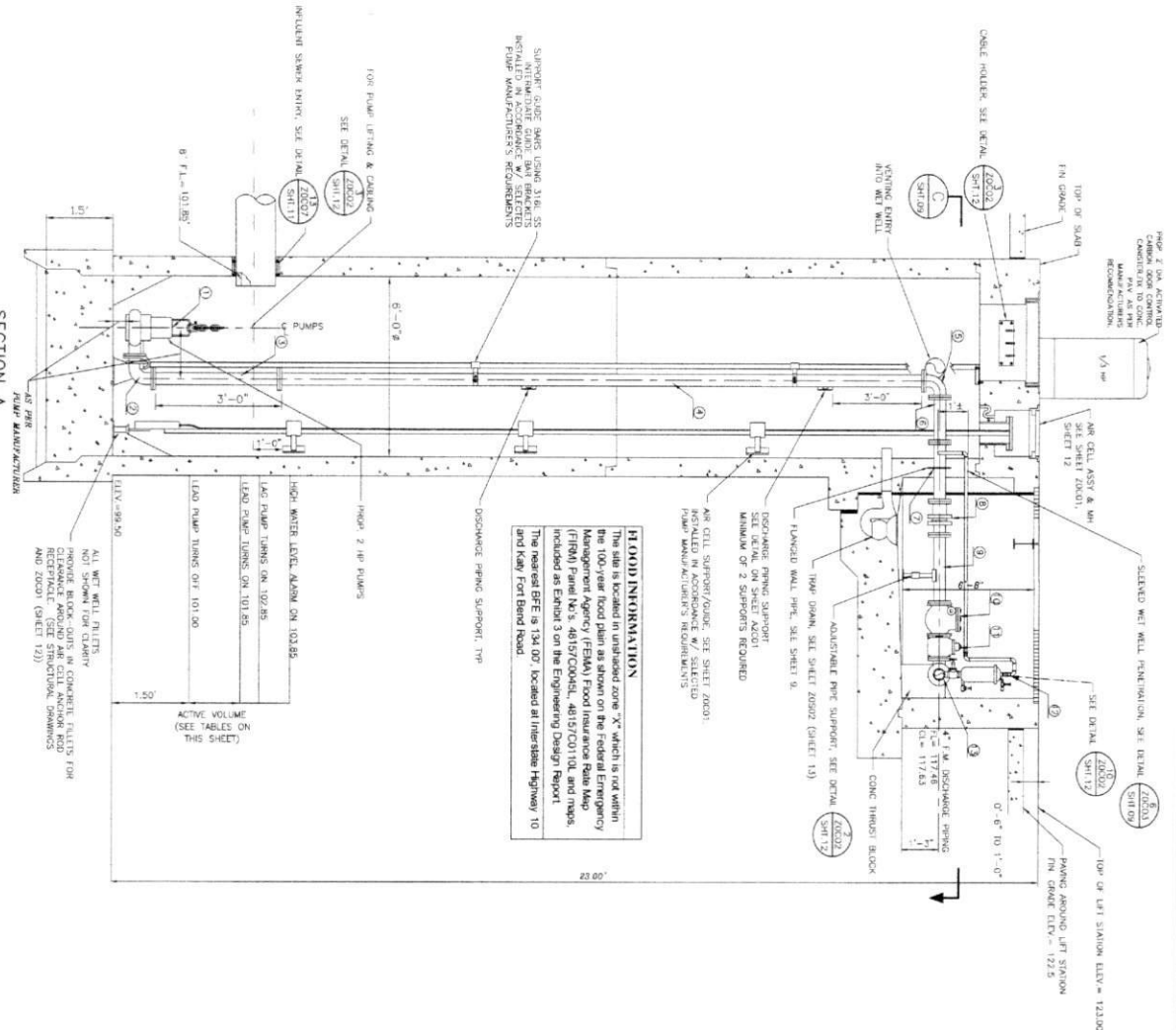
Project No. 2015-0000000000

Sheet No. 9 of 37

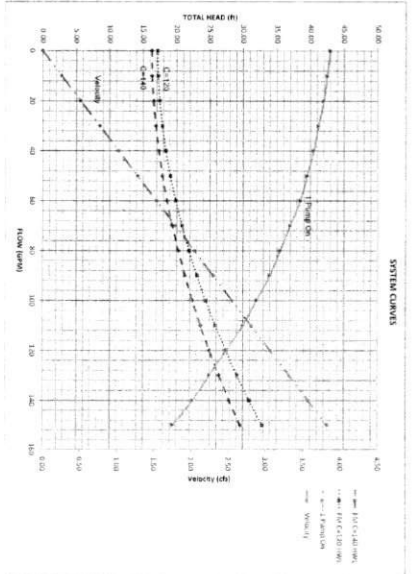
Scale: 1/4" = 1'-0"

CD2

SECTION A
CAISSON CONSTRUCTION
OF WET WELL



FLOOD INFORMATION
The site is located in unshaded zone "X" which is not within the 100-year flood plain as shown on the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) for No. 3-4857(C)0001, 4857(C)0101 and maps included as Exhibit 3 on the Engineering Design Report. The nearest BFE is 134.07' located at Interstate Highway 10 and Katy Fort Bend Road.



PUMP AND FITTINGS SCHEDULE

MARK	DESCRIPTION	QUANTITY
1	4" FE/FE	2
2	4" FE/FE	2
3	4" FE/FE	2
4	4" FE/FE	2
5	4" FE/FE	2
6	4" FE/FE	2
7	4" FE/FE	2
8	4" FE/FE	2
9	4" FE/FE	2
10	4" FE/FE	2
11	4" FE/FE	2
12	4" FE/FE	2
13	4" FE/FE	2

PUMP DATA TABLE

MOTOR DATA	PUMP NO. 1	PUMP NO. 2
WATERLIFT (GPM)	2,800	2,800
WATERLIFT (MGD)	1.860	1.860
SOLENOID PASSAGE	0.50	0.50
MIN. SPHERE (IN)	120	120
CAPACITY (GPM)	120	120
DESIGN HEAD (FT)	27.50	27.50
DESIGN HEAD (MG)	16.50	16.50
DESIGN HEAD (MG)	43.13	43.13
EFFICIENCY (%)	50.4	50.4
DESIGN HEAD (MG)	6.14	6.14
DESIGN HEAD (MG)	6.14	6.14
DESIGN HEAD (MG)	22.2	22.2

STATION OPERATION TABLES

WATERLEVEL ELEVATION	ACTION	PUMPS IN OPERATION
101.00	PUMPING OFF LEVEL - NO ACTION	ALL PUMPS ARE OFF
101.85	LEAD PUMP TURNS ON	LEAD PUMP ON
102.55	LAG PUMP TURNS ON	LAG PUMP ON
103.95	HIGH WATER ALARM ON	HIGH WATER ALARM SOUND
101.00	WATERLEVEL ELEVATION	PUMPS IN OPERATION
103.85	HIGH WATERLEVEL ALARM OFF	LEAD PUMP ON
102.85	LAG PUMP TURNS OFF	LAG PUMP STOPPED - STANDBY
101.00	LEAD PUMP TURNS OFF	ALL PUMPS STOPPED - STANDBY

CD3
SHEET 10 OF 37

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE
WATER DIVISION
MUNICIPAL UTILITY DISTRICT NO. 5
HARRIS-FORT BEND COUNTIES
MUNICIPAL UTILITY DISTRICT NO. 5
LIFT STATION FORCE MAIN & WATERLINE
TO SERVE 4.6 AC COMMERCIAL TRACT

ELEVATION SECTION OF LIFT STATION

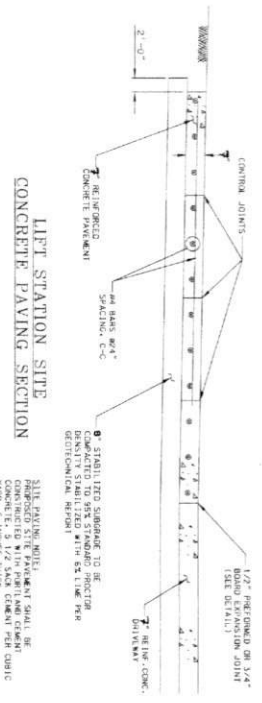
DATE: 10/15/15
DRAWN BY: [Signature]
CHECKED BY: [Signature]

SCALE: 1" = 1'-5"

FILE NO: [Blank]

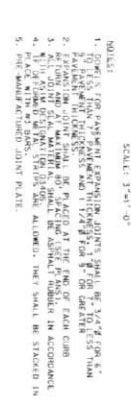
DATE: 10/15/15

PROJECT NO: 54467



LEFT STATION SITE
CONCRETE PAVING SECTION

1/2" REBAR CONC.
12" THICK CONC.
9" STABILIZED SUBGRADE TO BE
COMPLETED TO 95% STANDARD PROCTOR
GETTING REPORT 1" TO 15" DEEP
CONCRETE 100% AIR-ENTRAINED
CONTAINING 3% PLASTICIZER

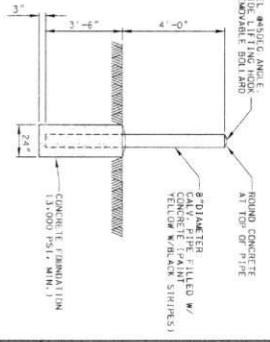


DOWEL TYPE EXPANSION
JOINT DETAIL

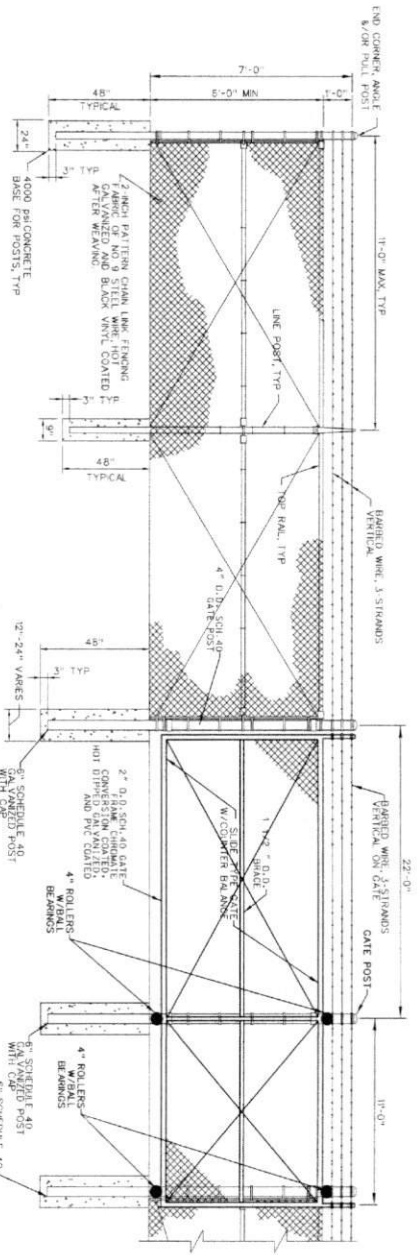
- NOTES:
1. 1/2" DIA. EXPANSION JOINT DOWEL BAR 1/2" DIA. TO 1/2" DIA. FROM 1/2" TO 1/2" DIA.
 2. 1/2" DIA. EXPANSION JOINT FILLER 1/2" DIA. TO 1/2" DIA. FROM 1/2" TO 1/2" DIA.
 3. 1/2" DIA. EXPANSION JOINT FILLER 1/2" DIA. TO 1/2" DIA. FROM 1/2" TO 1/2" DIA.
 4. 1/2" DIA. EXPANSION JOINT FILLER 1/2" DIA. TO 1/2" DIA. FROM 1/2" TO 1/2" DIA.
 5. 1/2" DIA. EXPANSION JOINT FILLER 1/2" DIA. TO 1/2" DIA. FROM 1/2" TO 1/2" DIA.

DETAIL 16
Z00008

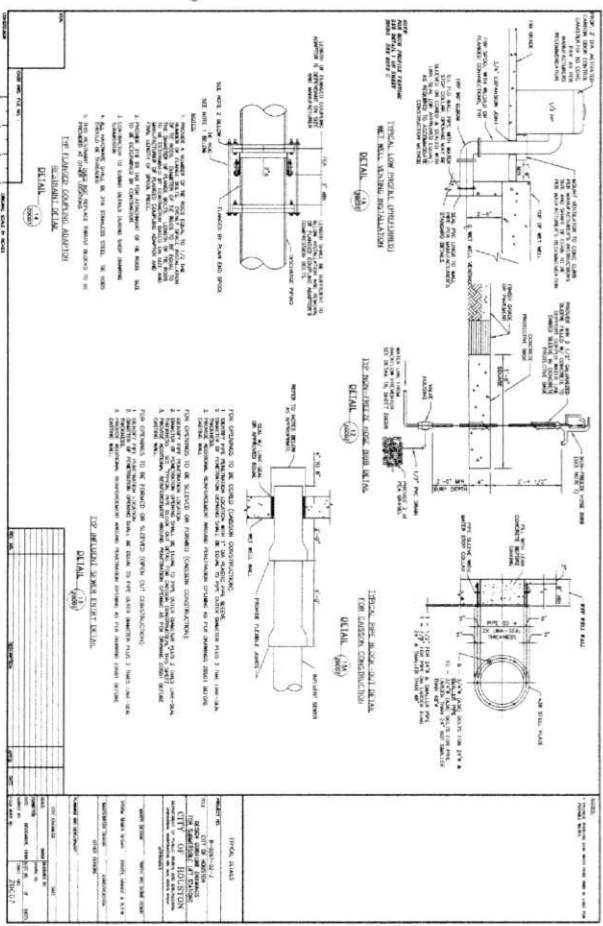
BOLLARD DETAIL
N.T.S.



DETAIL 17
Z00009



CANTILEVER SLIDE GATE
DETAIL 17
Z00009



DETAIL 18
Z00010

DETAIL 19
Z00011

DETAIL 20
Z00012

DETAIL 21
Z00013

DETAIL 22
Z00014

CD4

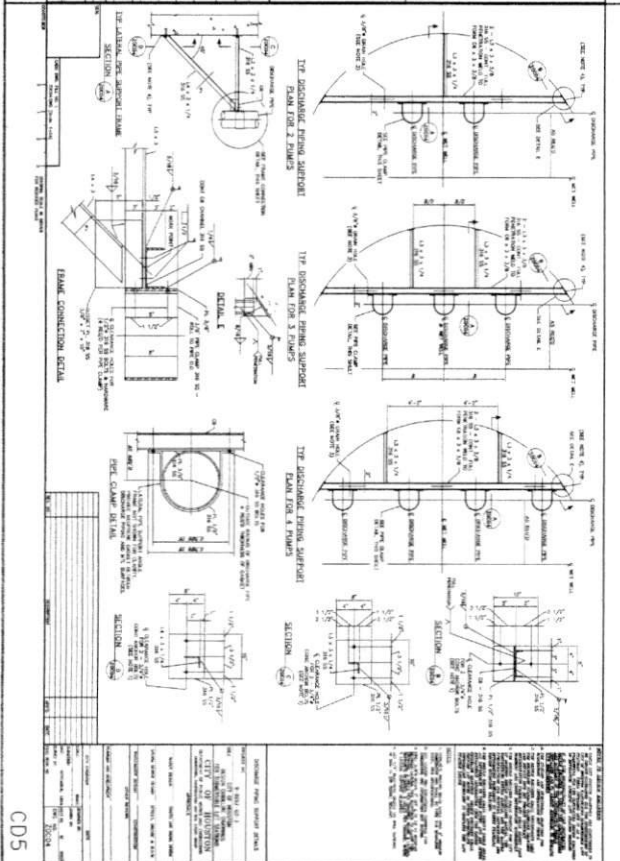
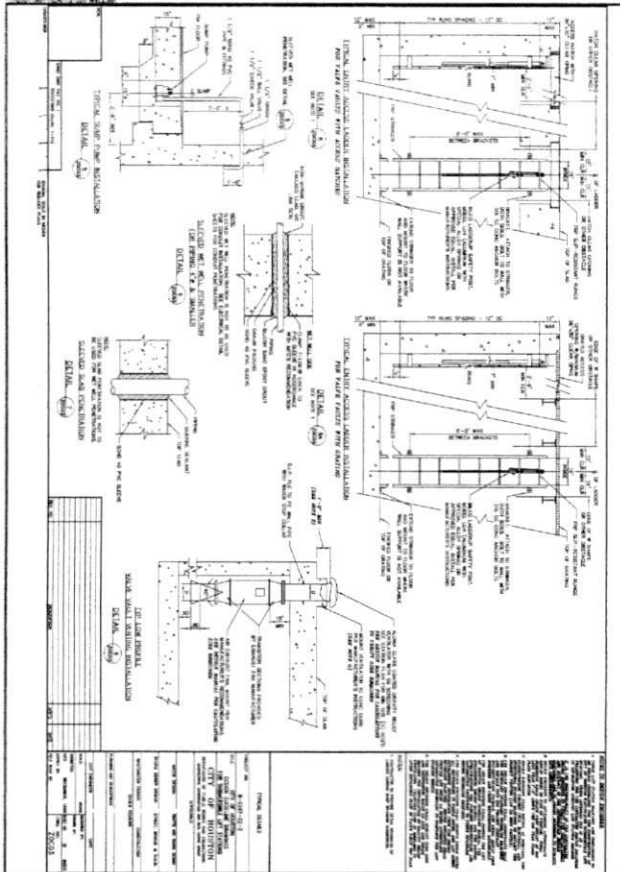
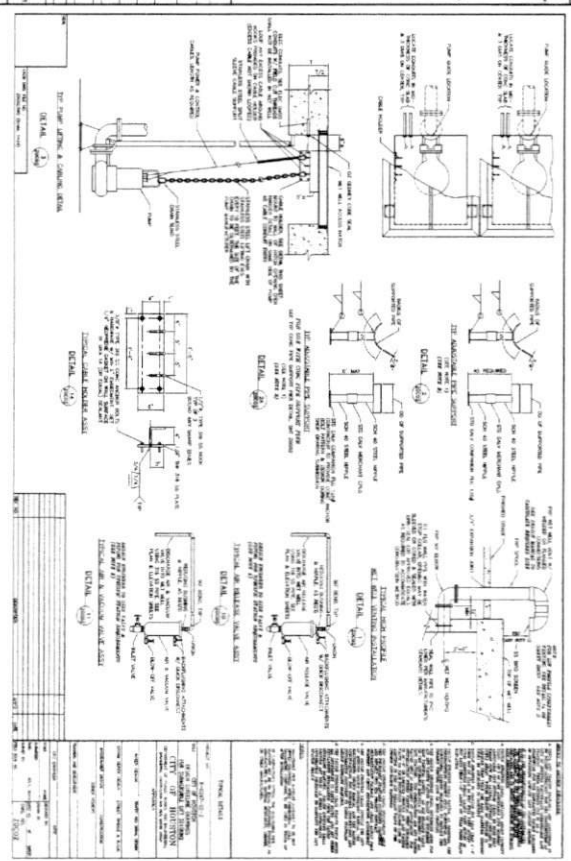
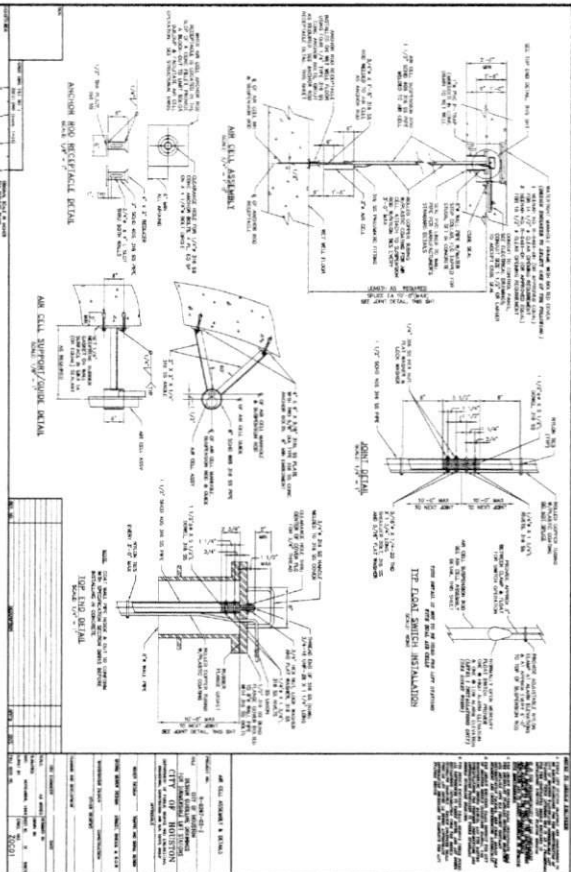
CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING
HARRIS-FORT BEND COUNTIES
MUNICIPAL UTILITY DISTRICT NO. 5
LEFT STATION FORCE MAIN & WATERLINE
TO SERVE A 6 AC COMMERCIAL TRACT

**MISCELLANEOUS
DETAILS
(SHEET 1 OF 3)**

DATE: 11/15/11
DRAWN BY: [Signature]
CHECKED BY: [Signature]
APPROVED BY: [Signature]

PROJECT NO: 11-15-11
SHEET NO: 11 OF 37

54467



MISCELLANEOUS DETAILS (SHEET 2 OF 3)

CITY OF HOUSTON
 DEPARTMENT OF PUBLIC WORKS AND ENGINEERING
 1100 NORTH HOUSTON STREET
 HOUSTON, TEXAS 77002

HARRIS-FORT BEND COUNTIES MUNICIPAL UTILITY DISTRICT NO. 5
 1100 NORTH HOUSTON STREET
 HOUSTON, TEXAS 77002

Van DeWaal & Vogel Incorporated
 1100 NORTH HOUSTON STREET
 HOUSTON, TEXAS 77002

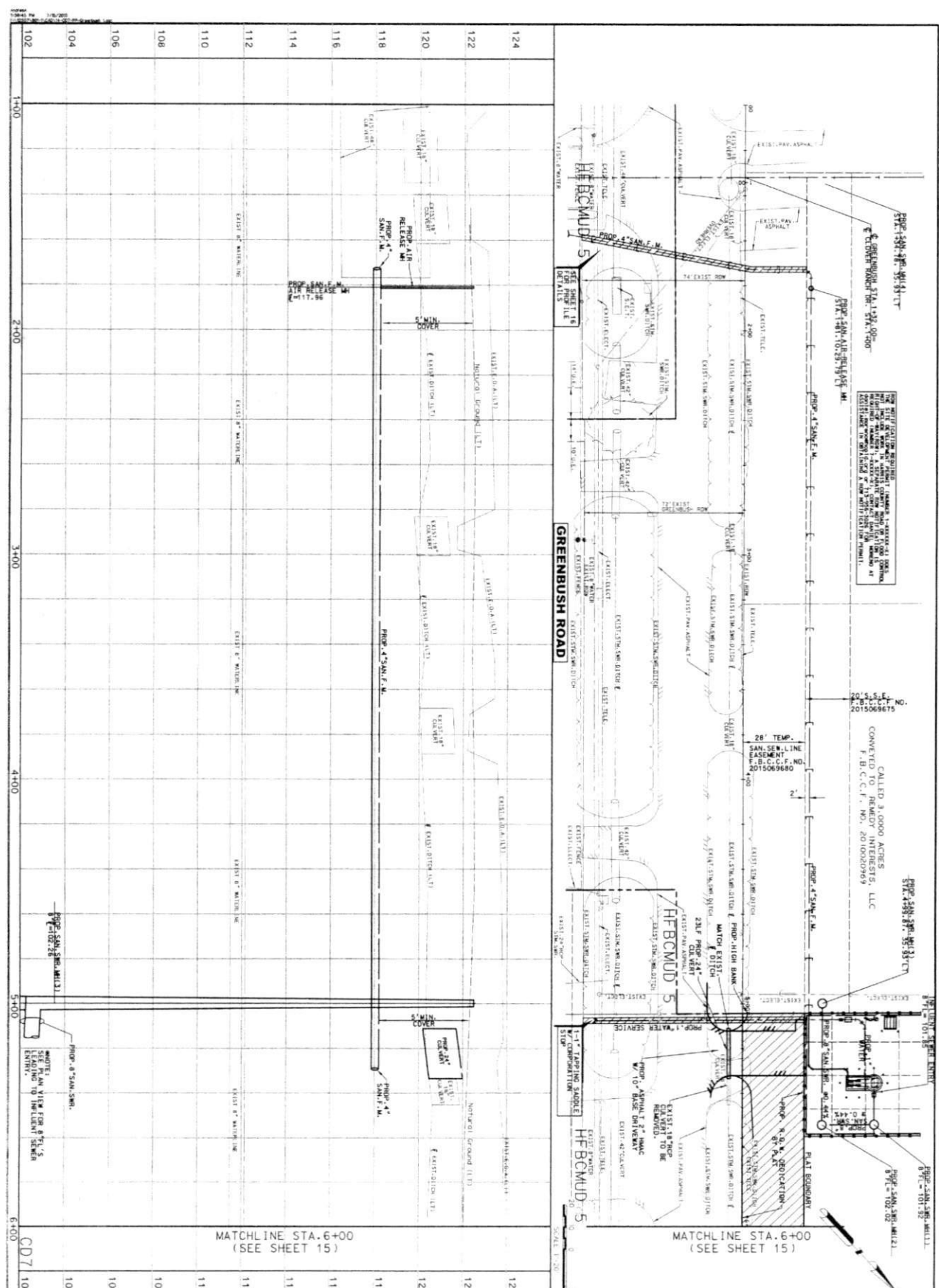
DRINKING SCALE
 SHEET: N.T.S.
 DATE: 12/17/17

54467

PRELIM BY: [Signature]
 DATE: 12/17/17

FINAL BY: [Signature]
 DATE: 12/17/17

CDS



THE CITY OF HOUSTON HAS REVIEWED THIS PLAN AND APPROVES THE LOCATION OF THE PROPOSED UTILITY LINES AND EASEMENTS SHOWN THEREON. THE CITY OF HOUSTON DOES NOT WARRANT THE ACCURACY OF THE INFORMATION PROVIDED HEREON. THE CITY OF HOUSTON IS NOT RESPONSIBLE FOR THE DESIGN OR CONSTRUCTION OF THE UTILITY LINES SHOWN HEREON.

CALLED 3.0000 ACRES
 CONVERTED TO 131.132 ACRES
 F.B.C.F. NO. 2015069699

MATCHLINE STA. 6+00
 (SEE SHEET 15)

PLAN & PROFILE
GREENBUSH ROAD
STA. 1+00 TO STA. 6+00

SHEET CITY OF HOUSTON NO. 14 OF 37

CITY OF HOUSTON
 DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

DATE: 11/14/15

PROJECT: HARRIS-FORT BEND COUNTIES MUNICIPAL UTILITY DISTRICT NO. 5 LEFT STATION-FORCE MAIN & WATERLINE TO SERVE 4.6 AC COMMERCIAL TRACT

CONTRACT NO. 2015069699

CONTRACTOR: **WILLIAMS & WILSON**

DESIGNER: **WILLIAMS & WILSON**

SCALE: 1" = 20'

SHEET NO. 14 OF 37

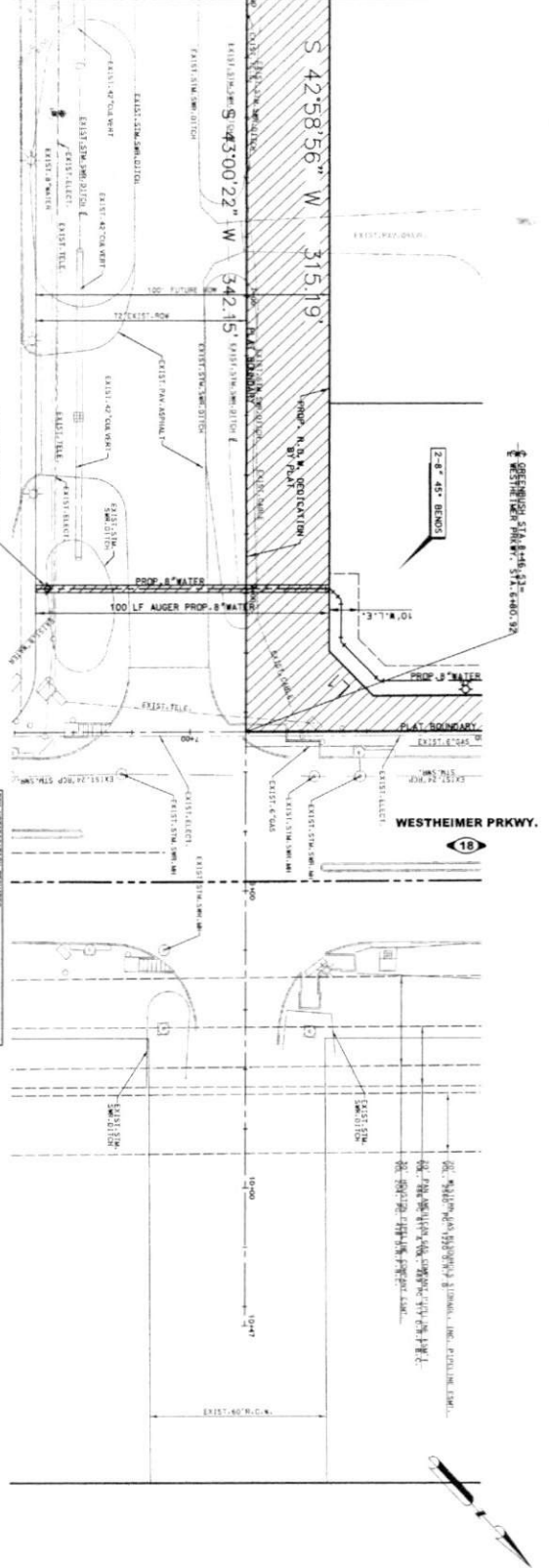
DRAWING SCALE: 1" = 20'

FILE NO.:

FROM CITY OF HOUSTON DEPT. OF PUBLIC WORKS AND ENGINEERING

54467

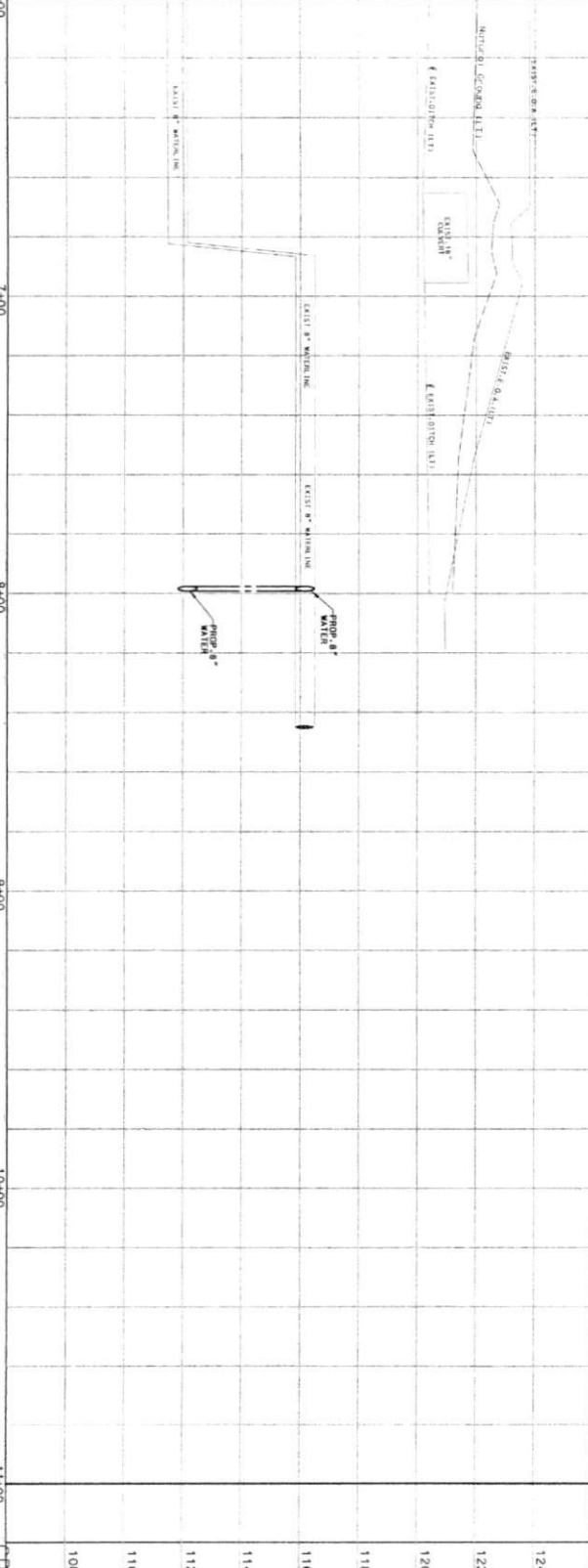
(SEE SHEET 14)
MATCHLINE STA. 6+00



PROPOSED 8" WATER BACKFLOW PREVENTION (SEE SHEET 15)
100 LF AUGER PROP. 8" WATER
PLAT BOUNDARY
WESTMEIER PRKWAY

20' 0" 20' 0" 20' 0"
SCALE 1" = 20'-0"

(SEE SHEET 14)
MATCHLINE STA. 6+00



20' 0" 20' 0" 20' 0"
SCALE 1" = 20'-0"

NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE CITY OF HOUSTON AND THE UTILITY COMPANIES.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES AND STRUCTURES.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ACCESS TO ALL ADJACENT PROPERTIES.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING ALL EXISTING UTILITIES AND STRUCTURES TO ORIGINAL OR BETTER CONDITION.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY EROSION CONTROL MEASURES.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY TRAFFIC CONTROL MEASURES.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY SAFETY MEASURES.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY QUALITY CONTROL MEASURES.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY RECORD DRAWINGS.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY AS-BUILT DRAWINGS.

APPROVED FOR THE CITY OF HOUSTON

APPROVED FOR THE UTILITY COMPANIES

APPROVED FOR THE CONTRACTOR

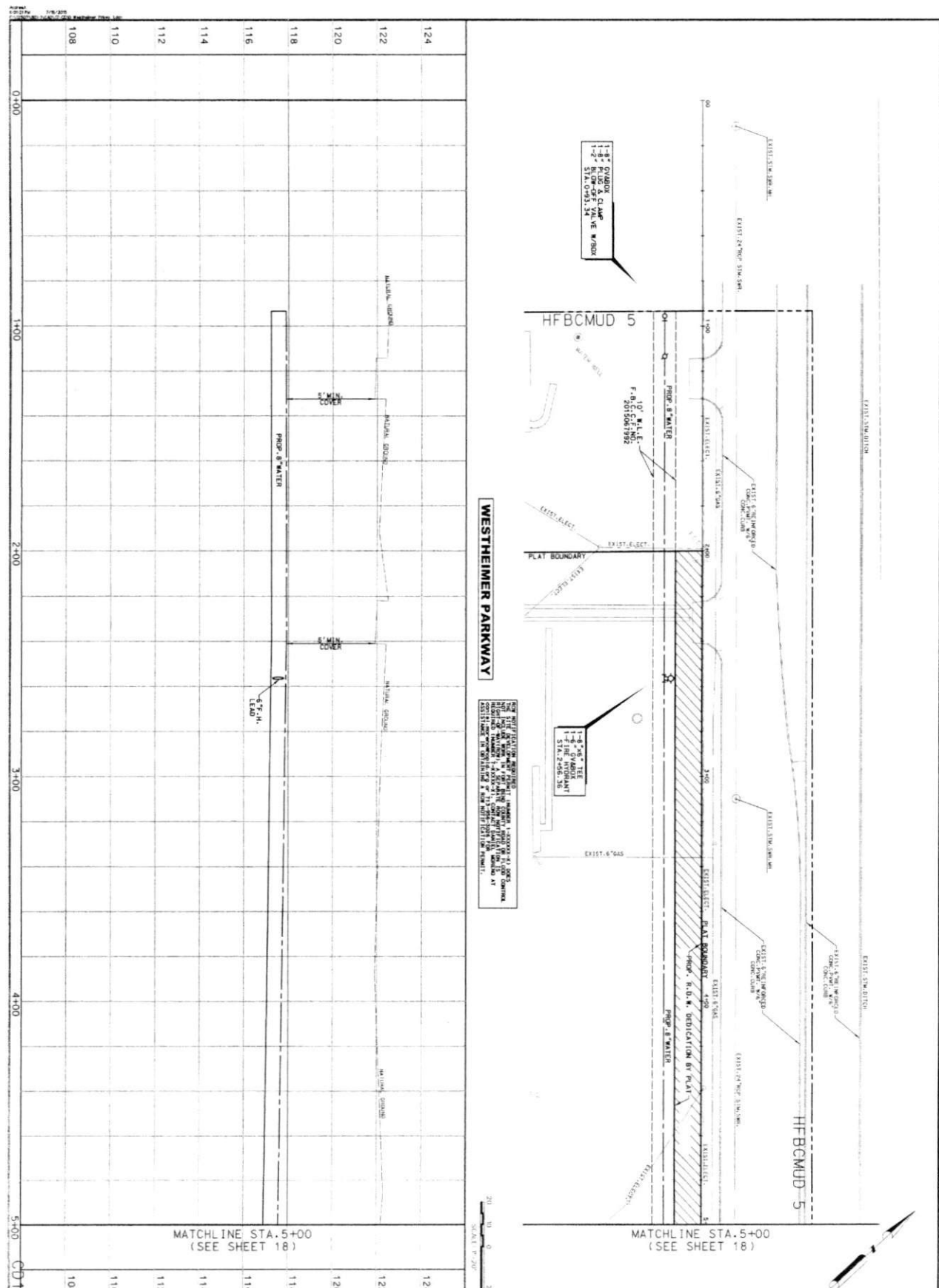
PLAN & PROFILE OF GREENBUSH ROAD STA. 6+00 TO END

CITY OF HOUSTON

DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

11/15/15

15 of 37



NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE APPLICABLE AGENCIES.
2. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AT ALL TIMES.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES AND STRUCTURES.
4. THE CONTRACTOR SHALL MAINTAIN THE PROPOSED GRADE AND CROSS-SECTION THROUGHOUT THE PROJECT.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL EXISTING UTILITIES AND STRUCTURES TO BE REMOVED.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ALL NEW UTILITIES AND STRUCTURES.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL EXISTING UTILITIES AND STRUCTURES.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL EXISTING UTILITIES AND STRUCTURES TO BE REMOVED.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ALL NEW UTILITIES AND STRUCTURES.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL EXISTING UTILITIES AND STRUCTURES.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES.

GENERAL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE APPLICABLE AGENCIES.

2. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AT ALL TIMES.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES AND STRUCTURES.

4. THE CONTRACTOR SHALL MAINTAIN THE PROPOSED GRADE AND CROSS-SECTION THROUGHOUT THE PROJECT.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL EXISTING UTILITIES AND STRUCTURES TO BE REMOVED.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ALL NEW UTILITIES AND STRUCTURES.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL EXISTING UTILITIES AND STRUCTURES.

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES.

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL EXISTING UTILITIES AND STRUCTURES TO BE REMOVED.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ALL NEW UTILITIES AND STRUCTURES.

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL EXISTING UTILITIES AND STRUCTURES.

12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES.

PLAN & PROFILE
WESTHEIMER PARKWAY
STAD 0+00 TO STAD 5+00

CITY OF HOUSTON
 DEPARTMENT OF PUBLIC WORKS AND ENGINEERING
 DIVISION OF UTILITY DESIGN

DESIGNED BY: [Signature]
CHECKED BY: [Signature]

DATE: 11/11/11

SCALE: 1" = 40'

SHEET NO. 17 OF 37

PROJECT NO. 111000000

PROJECT NAME: WESTHEIMER PARKWAY

PROJECT LOCATION: HARRIS-FORT BEND COUNTIES MUNICIPAL UTILITY DISTRICT NO. 5

PROJECT DESCRIPTION: UFT BRATION FORCE MAIN & WATERLINE TO SERVE 4.8 AC COMMERCIAL TRACT

DATE: 11/11/11

SCALE: 1" = 40'

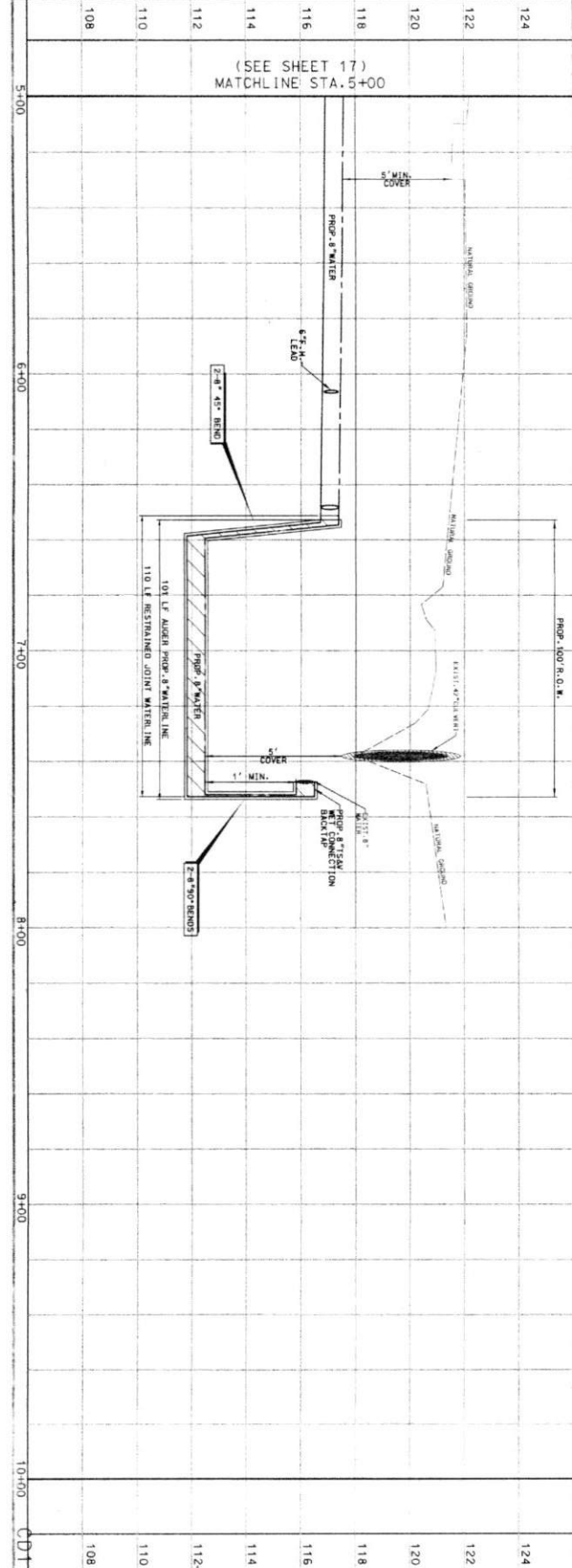
SHEET NO. 17 OF 37

PROJECT NO. 111000000

PROJECT NAME: WESTHEIMER PARKWAY

PROJECT LOCATION: HARRIS-FORT BEND COUNTIES MUNICIPAL UTILITY DISTRICT NO. 5

PROJECT DESCRIPTION: UFT BRATION FORCE MAIN & WATERLINE TO SERVE 4.8 AC COMMERCIAL TRACT



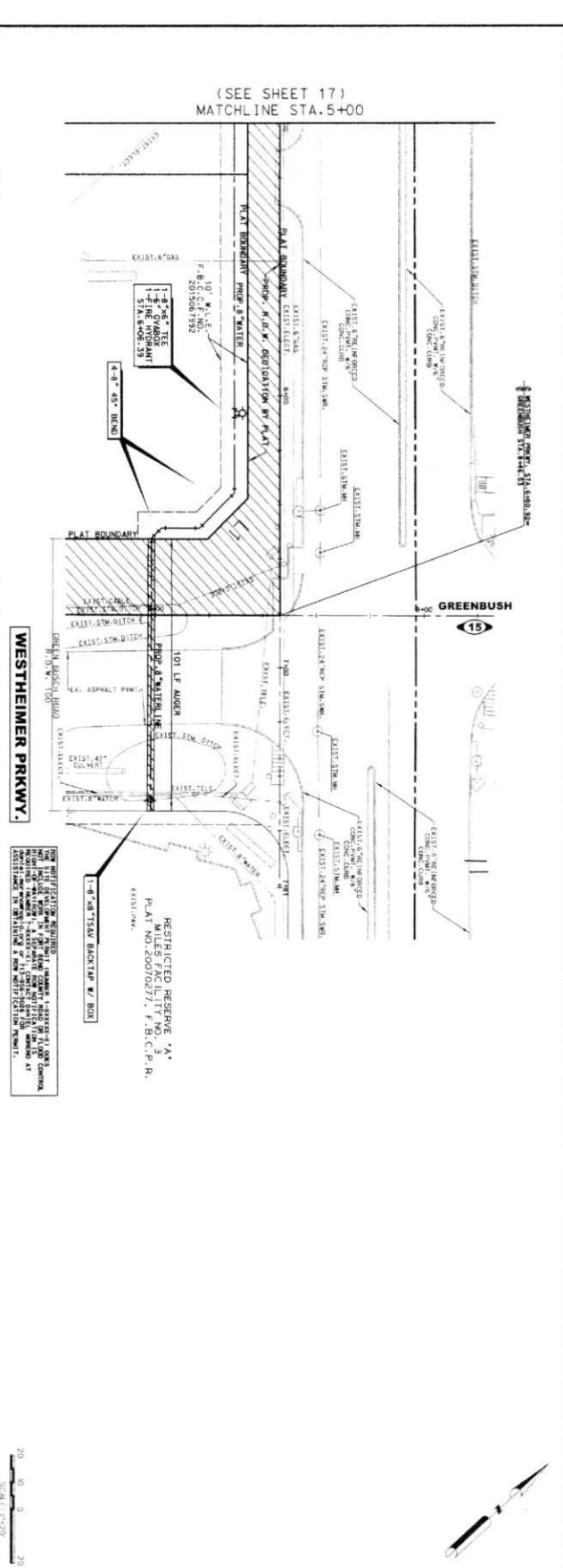
PLAN & PROFILE WESTMEIER PRKWAY, STA.10+00 TO END

CITY OF HOUSTON
 DEPARTMENT OF PUBLIC WORKS AND ENGINEERING
 DIVISION OF WATER UTILITIES

HARRIS-FORT BEND COUNTIES MUNICIPAL UTILITY DISTRICT NO. 5
 LEFT STATION FORCE MAIN & WATERLINE TO SERVE 4.6 AC COMMERCIAL TRACT

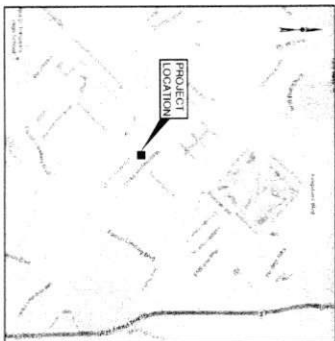
WESTMEIER PRKWAY, STA.10+00 TO END

DATE: 11/15/11
 DRAWING SCALE: HORIZ: 1"=20'
 VERT: 1"=2'
 SHEET NO: 18 OF 37

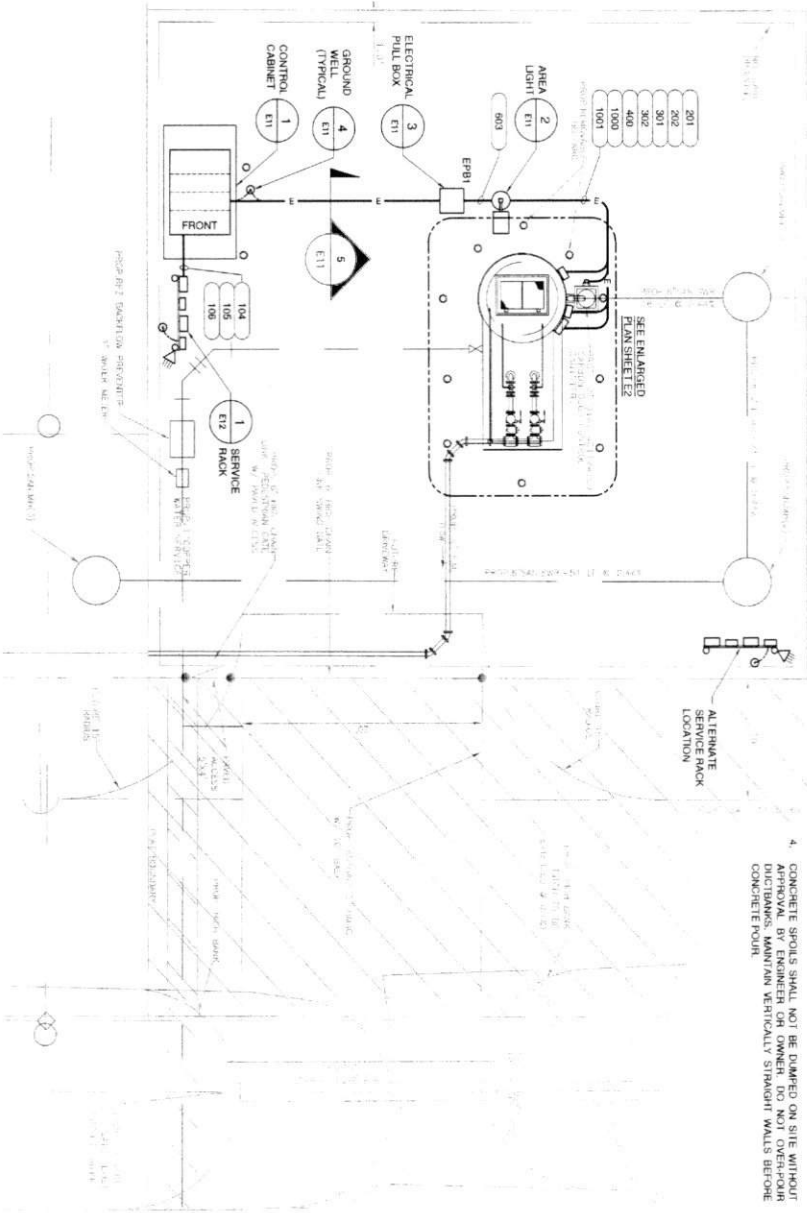
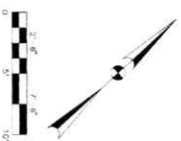


WESTMEIER PRKWAY, STA.5+00 TO END

RESTRICTED RESERVE 'A'
 PLAT NO. 20070271, F.B.C.P.R.
 EXIST. 10\"/>



VINDY CAMP
 PROJECT ADDRESS
 3000 GREENBUSH RD.
 KATY, TX 77494



- NOTES:**
- CONDUITS SHALL NOT BE ROUTED ACROSS WALKWAYS, PATHS OF ACCESS, TRAVEL OR EGRESS. ROUTE IN CONCRETE STRUCTURES TO AVOID CONFLICT WITH OTHER PIPING, CONDUITS, EQUIPMENT OR STRUCTURES.
 - FIELD VERIFY EXACT LOCATION OF ALL UNDERGROUND PIPES, DAMAGE DONE TO ORIGINAL CONDITION.
 - ALL UNDERGROUND DUCTBANKS REQUIRE INSPECTION PRIOR TO CONCRETE POUR AND INSPECTION PRIOR TO COVERING THE CONCRETE. THE ENGINEER FOR INSPECTIONS, SCHEDULE MINIMUM 48 HOURS IN ADVANCE. ANY DUCTBANKS NOT INSPECTED WILL BE REQUIRED TO BE EXPOSED FOR INSPECTION BY ENGINEER REGARDLESS OF STATUS OF CONCRETE SLABS OR OBSERVATIONS.
 - CONCRETE SPILLS SHALL NOT BE DUMPED ON SITE WITHOUT APPROVAL. BY ENGINEER OR OWNER. DO NOT OVERPOUR. CONCRETE SHALL BE REMOVED VERTICALLY STAGNANT WALLS BEFORE CONCRETE POUR.
 - DO NOT COVER SEWER LINES WITH CONCRETE FOUNDATIONS. FIELD LOCATE AND MARK ALL UNDERGROUND CONSTRUCTION.
 - DO NOT SCALE ELECTRICAL EQUIPMENT, DEVICES AND FOUNDATIONS DIMENSIONS, SPACING OR LOCATION ON FIELD. SITE LAYOUT, SEE ELECTRICAL PLAN SHEETS AND FIELD INSPECTION REPORT FOR DIMENSIONS. DIMENSIONS AND SITE DIMENSIONS, WHERE INCLUDED IN DRAWING PACKAGE SUBMITTAL REQUIREMENTS OF SPECIFICATION 16012. DO NOT SCALE DIMENSIONS FROM DRAWINGS.
 - ALL CONCRETE FOUNDATIONS AND PADS FOR ELECTRICAL EQUIPMENT ARE SHOWN AS MINIMUM ABOVE FINISHED GRADE FLOOD PLAN LEVEL. REFER TO CIVIL PLANS FOR FLOOD PLAN LEVEL AND USE FOR MINIMUM ELEVATIONS FOR ELECTRICAL PADS.
 - DO NOT CONSTRUCT WITHIN ELECTRICAL ELEMENTS, WHERE OVERHEAD OR UNDERGROUND UTILITY LINES EXIST. CONTACT ENGINEER BEFORE STARTING ANY WORK, AND BEFORE ROUTING ANY CONDUITS OR PIPING TOWARD THE LOCATION OF EXISTING UTILITIES.
 - PROVIDE GROUND CONNECTIONS FOR SERVICE ENTRANCE, CONTROL PANEL/CABINET, YARD LIGHT, PIPING AND ALL METAL PARTS.

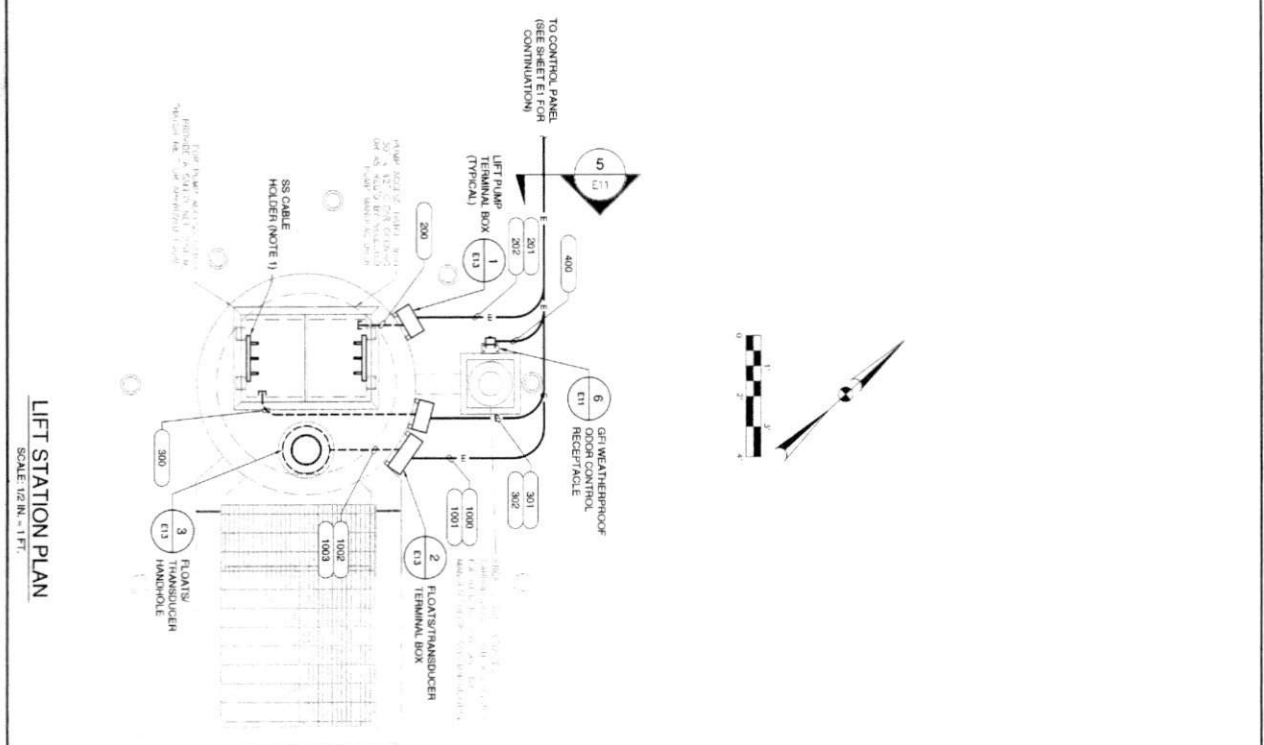
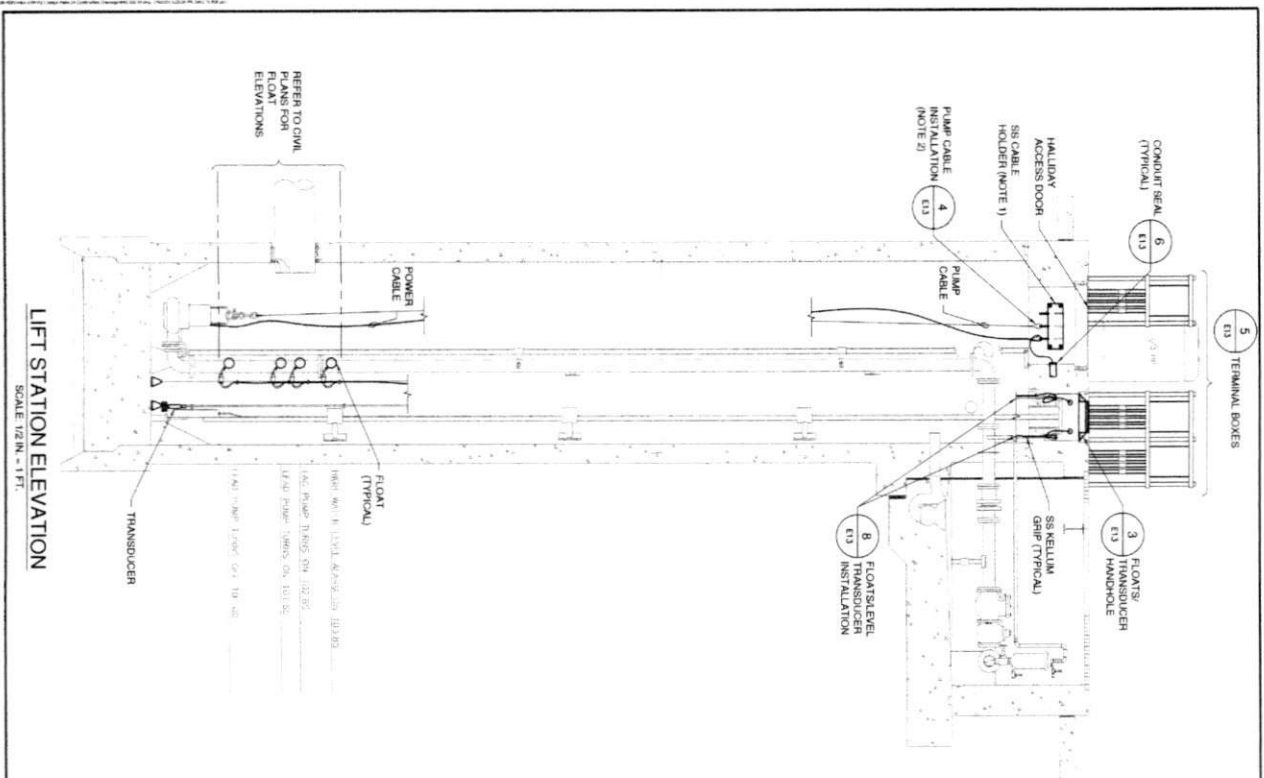
ELECTRICAL SITE PLAN

SCALE: 1" = 5'-0"

E1

<p>SE SHRADER ENGINEERING ELECTRICAL / COMMERCIAL / INDUSTRIAL / RESIDENTIAL</p>		<p>Van DeWeyer Incorporated Engineers</p>
<p>HARRIS-FORT BEND COUNTIES MUNICIPAL UTILITY DISTRICT NO. 5 LEFT STATION FORCE MAIN & WATERLINE TO SERVE 4.8 AC COMMERCIAL TRACT</p>		
<p>ELECTRICAL SITE PLAN</p>		
<p>CITY OF HOUSTON</p>		
<p>DATE: 02/20/20</p>		
<p>PROJECT NO: 20-037</p>		
<p>FILE NO: 20-037</p>		
<p>DRAWING SCALE: AS NOTED</p>		
<p>DATE: 02/20/20</p>		

P-1853



NOTES:

1. CABLE HOLDER SHOWN FOR CLARITY, FIELD LOCATE
2. COORDINATE INSTALLATION OF CONDUITS WITH LOCATION OF GUIDE RAILS FOR CABLE CLEARANCE
3. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD SELECTING OPTIMUM ROUTING OF CONDUITS
4. IF MULTIPLE PUMP CABLES ARE PROVIDED, INSTALLED OPTIMAL MINIMUM CONDUIT SIZE FOR THE PUMP POWER CABLE SHALL BE THE CONDUIT SIZE INDICATED. MINIMUM CONDUIT SIZE IS 1 1/2 INCHES.

ELECTRICAL ENLARGED PLAN

HARRIS FORT BEND COUNTIES MUNICIPAL UTILITY DISTRICT NO. 5
LIFT STATION-FORCE MAIN & WATERLINE TO SERVE 4 & AC COMMERCIAL TRACT

SE SHRADER ENGINEERING

Van DeWick Consulting Engineers Incorporated

CITY OF HOUSTON

DATE: 21 OF 37

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

PROJECT NO: 1502070000

DATE: 08/11/15

PROJECT: LIFT STATION-FORCE MAIN & WATERLINE TO SERVE 4 & AC COMMERCIAL TRACT

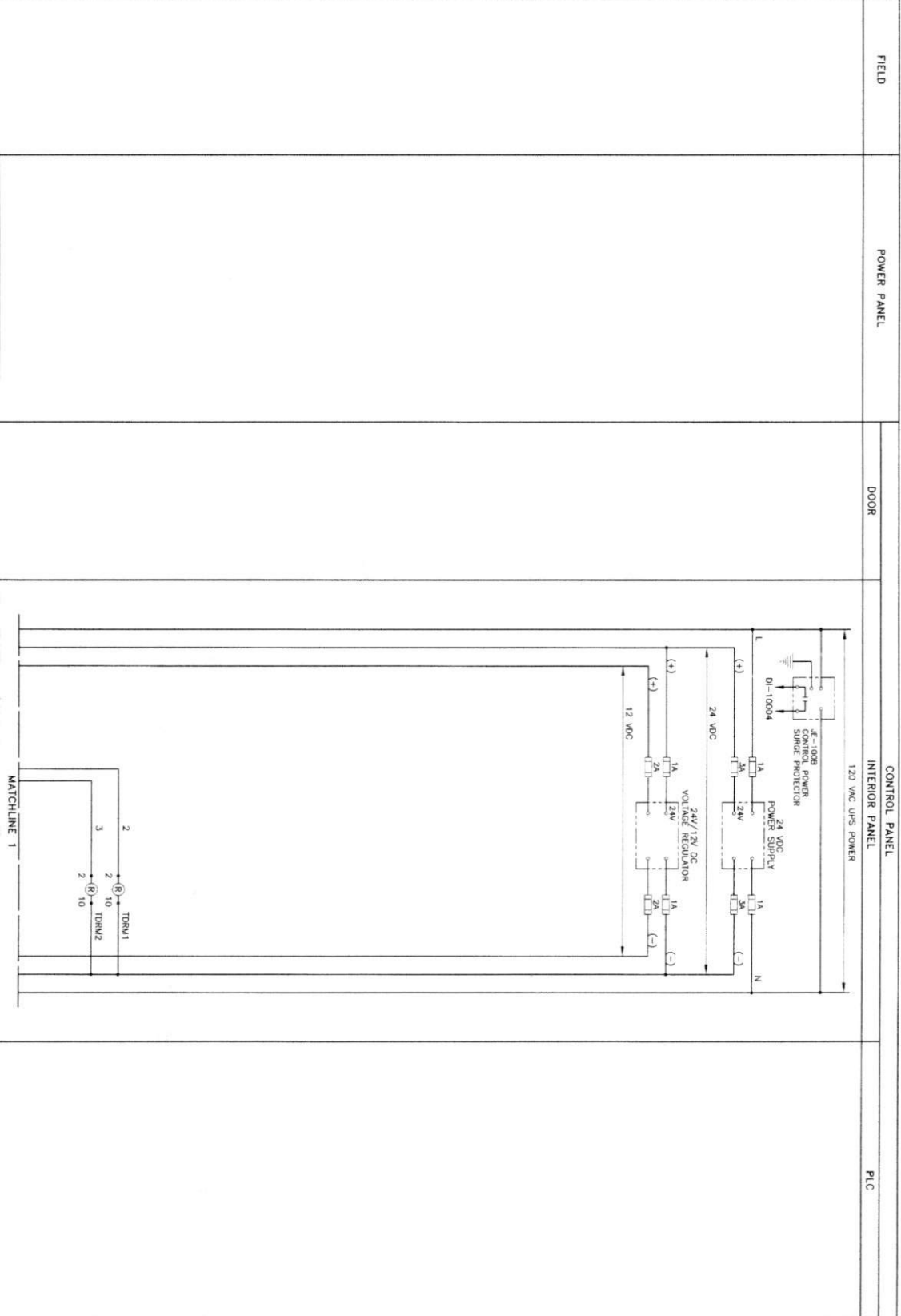
SCALE: 1/2" = 1'-0"

PROJECT NO: 1502070000

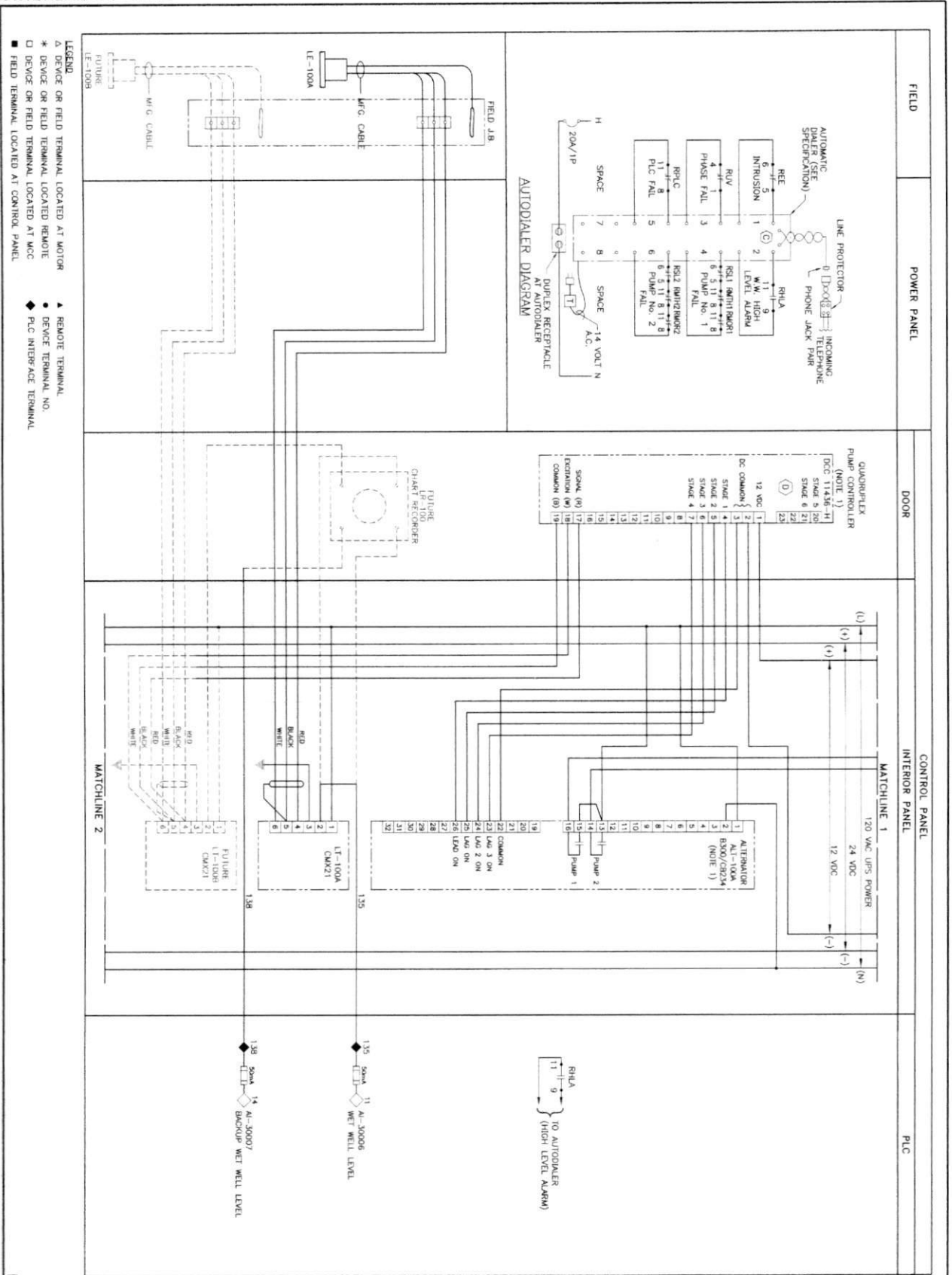
DATE: 08/11/15

PROJECT: LIFT STATION-FORCE MAIN & WATERLINE TO SERVE 4 & AC COMMERCIAL TRACT

- LEGEND**
- ▲ DEVICE OR FIELD TERMINAL LOCATED AT MOTOR
 - * DEVICE OR FIELD TERMINAL LOCATED REMOTE
 - DEVICE OR FIELD TERMINAL LOCATED AT MCC
 - FIELD TERMINAL LOCATED AT CONTROL PANEL
 - ▲ REMOTE TERMINAL
 - DEVICE TERMINAL NO.
 - ◆ PLC INTERFACE TERMINAL



<p>SHRADER ENGINEERING ELECTRICAL & COMMUNICATIONS / RESIDENTIAL</p> <p>PROJECT: City of Houston - Left Station Edge Main & Waterline to Serve 4.5 AC Commercial Tract</p> <p>DATE: 11/15/23</p>		<p>Van DeWick Incorporated 1100 West Loop South, Suite 200 Houston, Texas 77030 Tel: 713.865.1100 Fax: 713.865.1101</p>
<p>CITY OF HOUSTON MUNICIPAL UTILITY DISTRICT NO. 5 LEFT STATION EDGE MAIN & WATERLINE TO SERVE 4.5 AC COMMERCIAL TRACT</p> <p>ELECTRICAL CONTROL DIAGRAMS SHEET 1</p>		<p>PROJECT NO: 23-031 SHEET NO: 1</p>
<p>DRAWING SCALE: N/A</p> <p>DATE: 11/15/23</p>		<p>FILE NO: 23-031</p>



NOTES:
 1. CONFORM TO CURRENT CITY OF HOUSTON STANDARD CONTROL DEVICES.

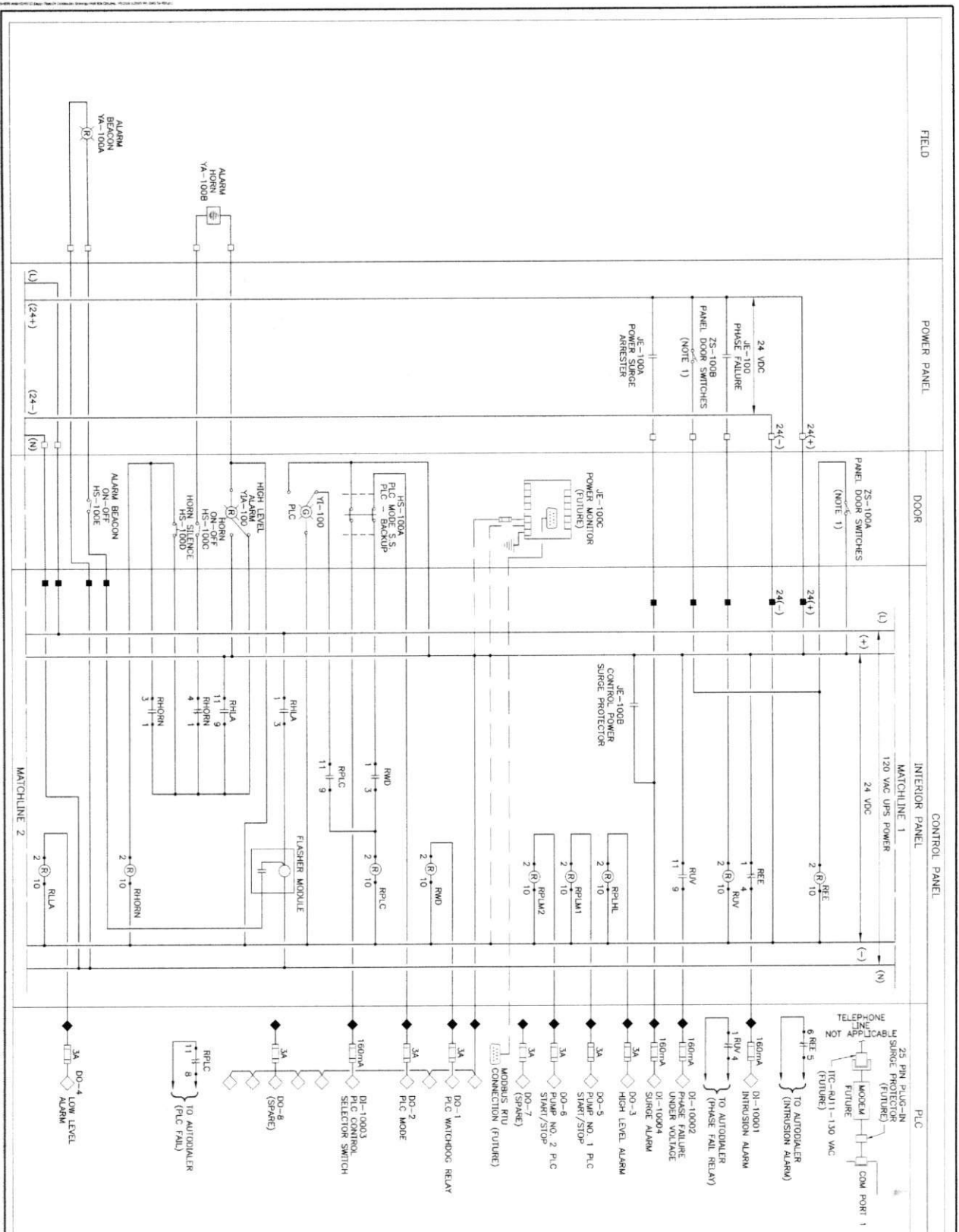
SE SHRADER ENGINEERING
 ELECTRICAL COMMERCIAL DIVISION 1 TECHNOLOGY
 1000 WEST 17TH STREET, SUITE 1000, HOUSTON, TEXAS 77058
 PHONE: 713/865-1111 FAX: 713/865-1112
 WWW: WWW.SHRADESENG.COM
 PROJECT: HARRIS-FORT BEND COUNTIES MUNICIPAL UTILITY DISTRICT NO.5 LIFT STATION FORCE MAIN & WATERLINE TO SERVE 1.6 AC COMMERCIAL TRACT
 SHEET: 24 OF 37

Van Dyke & Yip
 Incorporated
 1000 WEST 17TH STREET, SUITE 1000
 HOUSTON, TEXAS 77058
 PHONE: 713/865-1111 FAX: 713/865-1112
 WWW: WWW.VANDYKEYIP.COM

ELECTRICAL CONTROL DIAGRAMS
SHEET 2

DATE: 01/11/2011
 TIME: 10:00 AM
 DRAWING SCALE: N/A
 SHEET: 24 OF 37

PROJECT: HARRIS-FORT BEND COUNTIES MUNICIPAL UTILITY DISTRICT NO.5 LIFT STATION FORCE MAIN & WATERLINE TO SERVE 1.6 AC COMMERCIAL TRACT
 SHEET: 24 OF 37



- NOTES:
1. PROVIDE ONE LIMIT SWITCH PER EXTERIOR CONTROL PANEL AND POWER PANEL DOOR, WIRED IN PARALLEL.
 2. SEE SPECIFICATIONS 16012 AND 13442A FOR PLC PROGRAMMING REQUIREMENTS BEFORE BIDDING.

- LEGEND:
- ▲ DEVICE OR FIELD TERMINAL LOCATED AT MOTOR
 - DEVICE OR FIELD TERMINAL LOCATED AT MCC
 - FIELD TERMINAL LOCATED AT CONTROL PANEL
 - ◆ REMOTE TERMINAL
 - ◆ DEVICE TERMINAL NO.
 - ◆ PLC INTERFACE TERMINAL

E6

SE SHRADER ENGINEERING

1000 WEST 17TH STREET, SUITE 1000, HOUSTON, TEXAS 77058

HOUSTON OFFICE: 281.480.1111

HOUSTON OFFICE: 281.480.1111

HOUSTON OFFICE: 281.480.1111

Van Dyke & Vogler Incorporated

1000 WEST 17TH STREET, SUITE 1000, HOUSTON, TEXAS 77058

HOUSTON OFFICE: 281.480.1111

HOUSTON OFFICE: 281.480.1111

HOUSTON OFFICE: 281.480.1111

CITY OF HOUSTON

DEPARTMENT OF PUBLIC WORKS

1000 WEST 17TH STREET, SUITE 1000, HOUSTON, TEXAS 77058

HOUSTON OFFICE: 281.480.1111

HOUSTON OFFICE: 281.480.1111

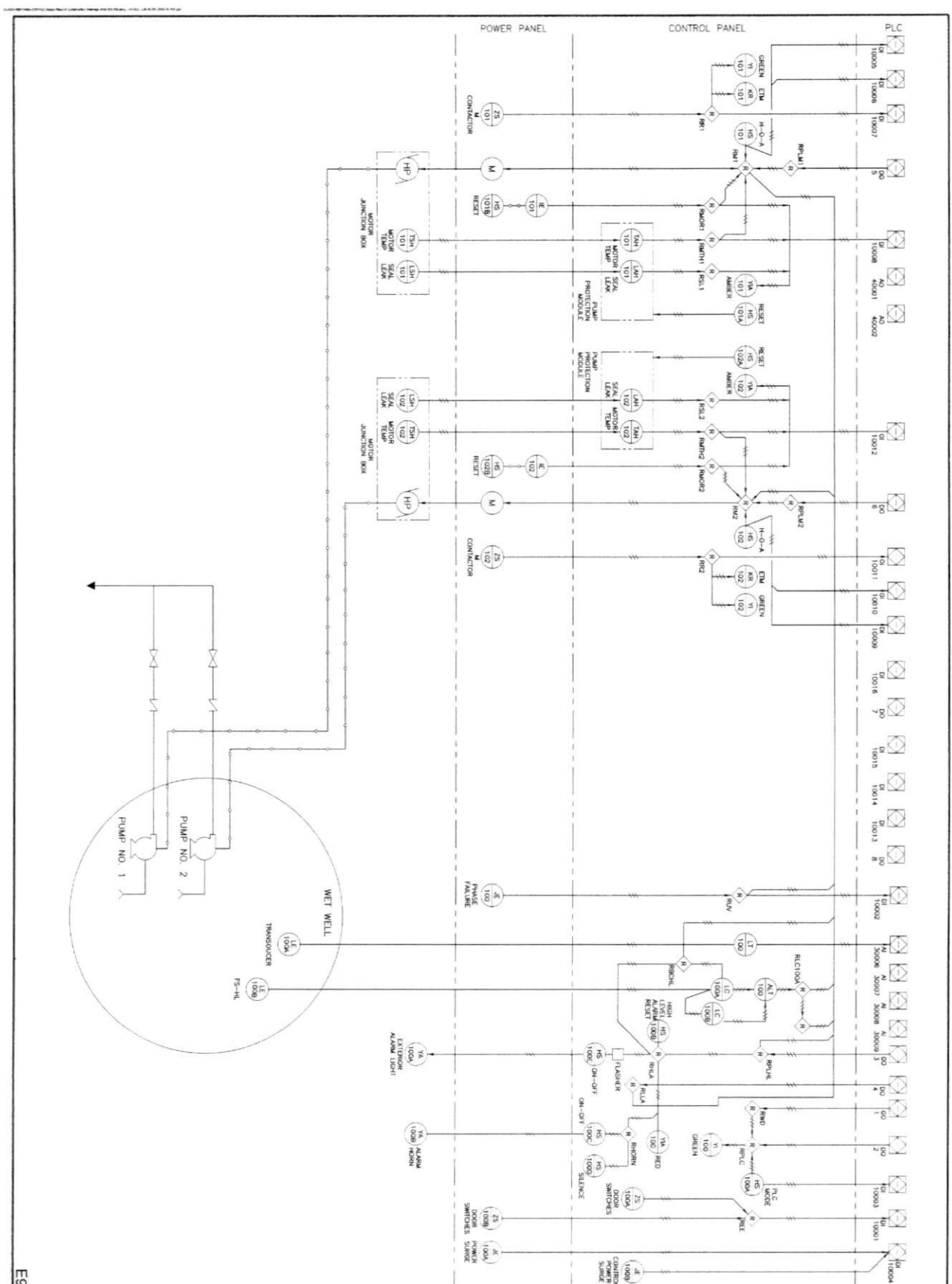
HOUSTON OFFICE: 281.480.1111

HARRIS FORT BEND COUNTIES MUNICIPAL UTILITY DISTRICT No. 5

LEFT STATION FORCE MAIN & WATERLINE TO SERVE 4.6 AC COMMERCIAL TRACT

PROJECT NO. 25 OF 37

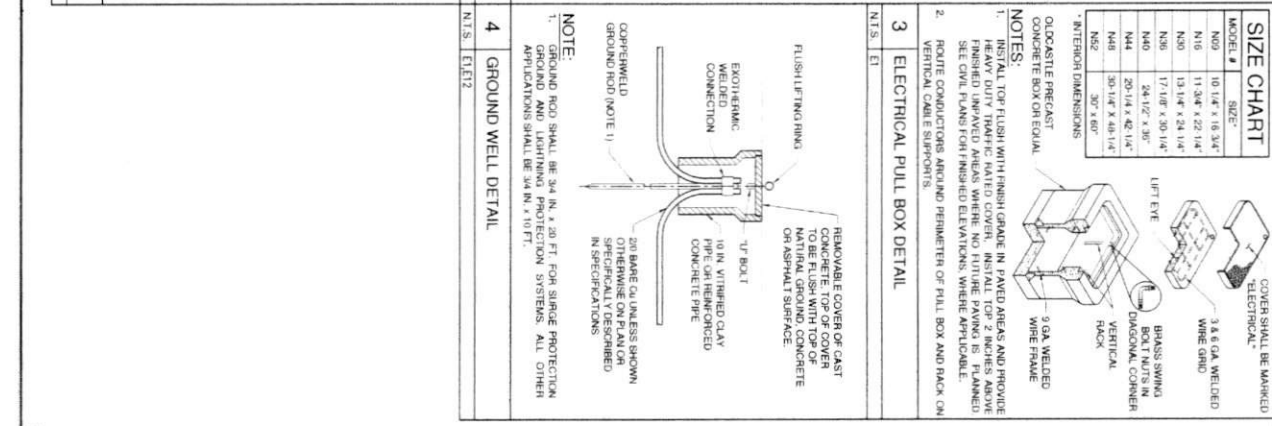
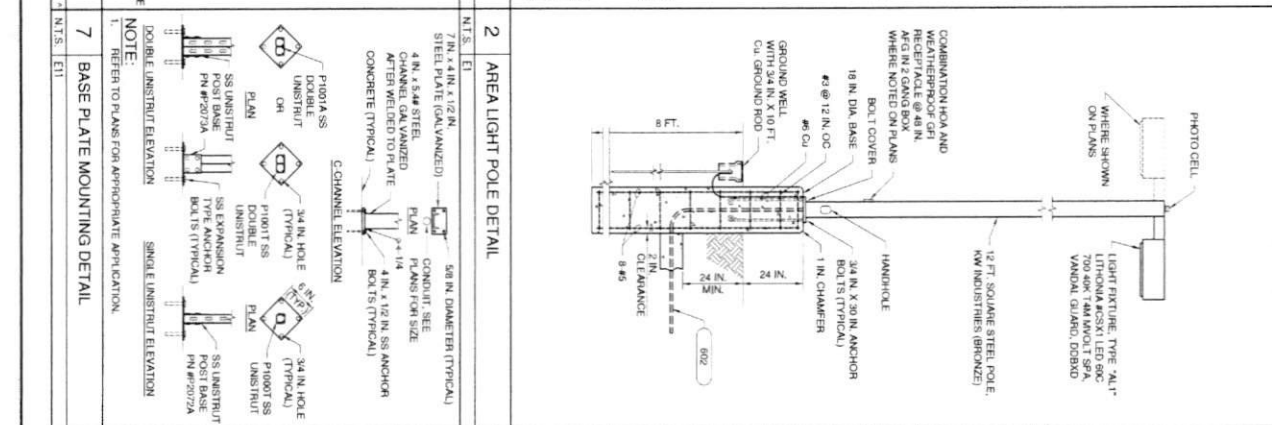
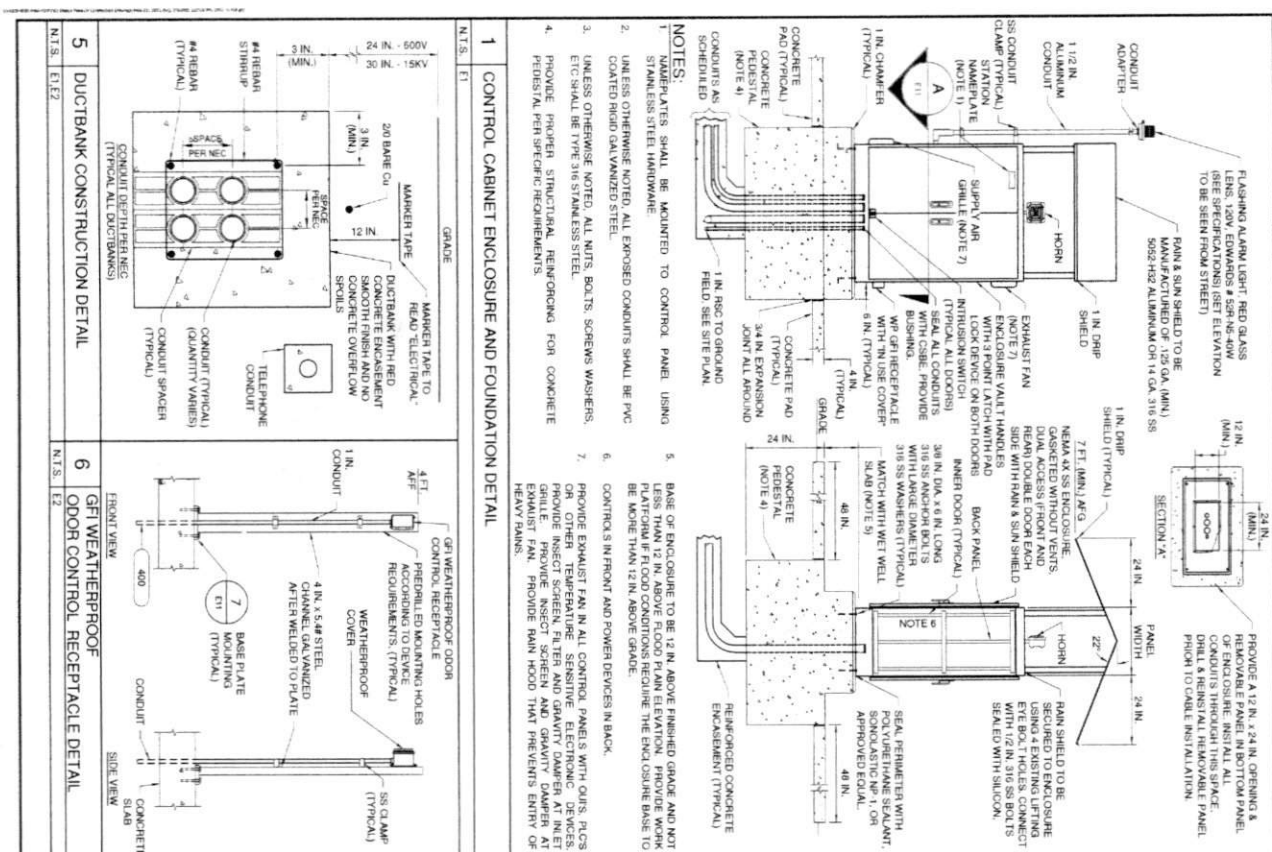
ELECTRICAL CONTROL DIAGRAMS SHEET 3



E9

Van Dyke & Vagler <i>Inspected</i>	
HARRIS-FORT BEND COUNTIES MUNICIPAL UTILITY DISTRICT NO. 5 LEFT STATION FORCE MAIN & WATERLINE TO SERVE 4.8 AC COMMERCIAL TRACT ELECTRICAL PROCESS AND INSTRUMENTATION DIAGRAM	
CITY OF HOUSTON DEPARTMENT OF PUBLIC WORKS PROJECT NO. 2017-001 DATE: 11/15/17	
SHEET NO. 28 of 31	





MODEL #	SIZE
M02	10 1/4" x 18 3/4"
M16	11 3/4" x 22 1/4"
M30	13 1/4" x 24 1/4"
M36	17 1/8" x 30 1/4"
M48	24 1/2" x 36"
M60	28 1/4" x 42 1/4"
M72	30 7/8" x 48 1/4"
M84	30 7/8" x 60"

SIZE CHART

COVER SHALL BE MARKED "ELECTRICAL"

3 & 6 GA WELDED WIRE GRID

BRASS SWING BOLT WITH DIAGONAL CORNER

VERTICAL TRACK

5 GA WELDED WIRE FRAME

REMOVABLE COVER OF CAST CONCRETE TOP OF COVER INITIAL GROUND CONCRETE OR ASPHALT SURFACE

FLUSH LIFTING RINGS

EXOTHERMIC WELDED CONNECTION

20 BARE COPPER ROD (NOTE 1) SPECIFICALLY DESIGNED IN SPECIFICATIONS

NOTE: 1. GROUND ROD SHALL BE 3/4 IN. X 20 FT. FOR SINGLE PROTECTION APPLICATIONS AND 1/2 IN. X 40 FT. FOR PROTECTION SYSTEMS. ALL OTHER APPLICATIONS SHALL BE 3/4 IN. X 10 FT.

NOTE: 1. INSTALL TOP FLUSH WITH FINISH GRADE IN PAVED AREAS AND PROVIDE FINISHED UNPAVED AREAS WHERE NO FINISH PAVING IS PLANNED. SEE CIVIL PLANS FOR FINISHED ELEVATIONS, WHERE APPLICABLE.

2. ROUTE CONDUCTORS AROUND PERIMETER OF PULL BOX AND PACK ON VERTICAL CABLE SUPPORTS.

3. ELECTRICAL PULL BOX DETAIL

NOTE: 1. ODD-SIZE PRECAST CONCRETE BOX ON EQUAL

2. INTERIOR DIMENSIONS

3. REMOVE TOP FLUSH WITH FINISH GRADE IN PAVED AREAS AND PROVIDE FINISHED UNPAVED AREAS WHERE NO FINISH PAVING IS PLANNED. SEE CIVIL PLANS FOR FINISHED ELEVATIONS, WHERE APPLICABLE.

4. GROUND WELL DETAIL

NOTE: 1. GROUND ROD SHALL BE 3/4 IN. X 20 FT. FOR SINGLE PROTECTION APPLICATIONS AND 1/2 IN. X 40 FT. FOR PROTECTION SYSTEMS. ALL OTHER APPLICATIONS SHALL BE 3/4 IN. X 10 FT.

2. AREA LIGHT POLE DETAIL

NOTE: 1. REFER TO PLANS FOR APPROPRIATE APPLICATION.

3. BASE PLATE MOUNTING DETAIL

DOUBLE UNISTRUT ELEVATION

SINGLE UNISTRUT ELEVATION

4. GFI WEATHERPROOF DETAIL

5. DUCTBANK CONSTRUCTION DETAIL

6. GFI WEATHERPROOF DETAIL

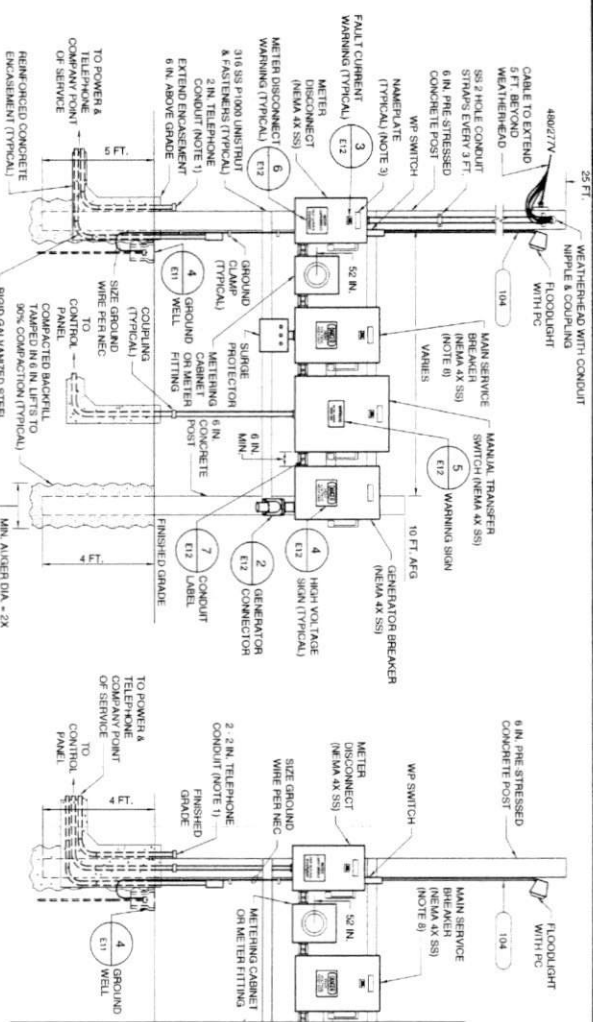
7. BASE PLATE MOUNTING DETAIL

8. CONTROL CABINET ENCLOSURE AND FOUNDATION DETAIL

9. AREA LIGHT POLE DETAIL

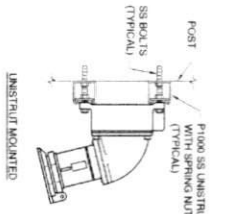
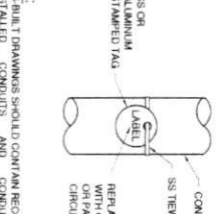
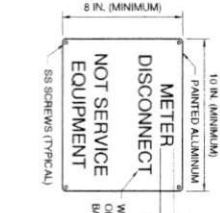
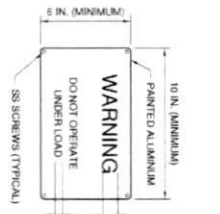
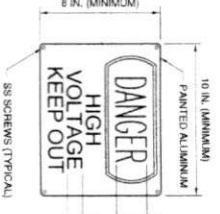
10. ELECTRICAL PULL BOX DETAIL

11. GROUND WELL DETAIL



- NOTES:**
1. STUB UP AND CAP TELEPHONE CONDUITS 6 IN. ABOVE CONCRETE.
 2. CONTRACTOR SHALL PROVIDE ABSOLUTE COST ALLOWANCE FOR THE PORTION OF LOCAL POWER TELEPHONE CO. COORDINATE INSTALLATION WITH LOCAL UTILITY COMPANIES.
 3. NAMEPLATES SHALL BE MOUNTED TO CONTROL PANEL USING STAINLESS STEEL HARDWARE.
 4. SEE PLANS AND SPECIFICATIONS FOR CONDUIT ENCASMENT IN CONCRETE.
 5. COORDINATE LOCATION OF SERVICE DROP WITH POWER COMPANY BEFORE CONSTRUCTING SERVICE TRACK.
 6. PROVIDE INTRINSIC SWITCHES FOR ALL EQUIPMENT ENCLOSURES. ROUTE 2 #14, 500 IN CONTROL PANEL FEEDER CONDUIT TO AUTODIAGNOSIS FOR EACH SWITCH.
 7. ROUTE TELEPHONE CONDUIT TO TELEPHONE TERMINAL BOX. COORDINATE WITH TELEPHONE COMPANY.
 8. MOUNT SURGE PROTECTOR DEVICE (SPD) ON SIDE OF MAIN BREAKER AT CUSTOMER SERVICE POLE.

<p>1</p> <p>N.T.S. E1</p>	<p>4</p> <p>N.T.S. E1Z</p>	<p>5</p> <p>N.T.S. E1Z</p>	<p>6</p> <p>N.T.S. E1Z</p>
<p>1 ELECTRIC AND TELEPHONE SERVICE INSTALLATION DETAIL</p>			
<p>NOTE 2</p>			
<p>3</p> <p>N.T.S. E1Z</p>	<p>7</p> <p>N.T.S. E1Z</p>	<p>4</p> <p>N.T.S. E1Z</p>	<p>5</p> <p>N.T.S. E1Z</p>
<p>3 FAULT CURRENT WARNING SIGN DETAIL</p>			
<p>NOTE:</p>			
<p>1. CONTRACTOR TO FILL AVAILABLE FAULT CURRENT KVAc BASED ON DATA OBTAIN STATEMENT FROM ELECTRICAL PROVIDER.</p>			
<p>4 HIGH VOLTAGE SIGN DETAIL</p>			
<p>5 DO NOT OPERATE WARNING SIGN DETAIL</p>			
<p>6 METER DISCONNECT WARNING SIGN DETAIL</p>			
<p>7 CONDUIT LABEL DETAIL</p>			



GENERAL NOTES:

1. MATERIALS SHALL BE SEPARATION FROM ALL OTHERS. ALL MATERIALS SHALL BE SEPARATION FROM ALL OTHERS. ALL MATERIALS SHALL BE SEPARATION FROM ALL OTHERS.
2. UNLESS OTHERWISE NOTED, ALL EXPOSED CONDUITS SHALL BE PVC COATED MILD GALVANIZED STEEL.
3. UNLESS OTHERWISE NOTED, ALL NUTS, BOLTS, SCREWS AND WASHERS SHALL BE TYPE 316 STAINLESS STEEL.
4. UNLESS OTHERWISE INDICATED, ALL GENERATOR AND CONTROL PANELS SHALL BE MOUNTED AT THE CONTROL PANEL.

SHRADER ENGINEERING

Van Drievlede Incorporated

HARRIS-FORT BEND COUNTIES MUNICIPAL UTILITY DISTRICT NO. 5 LEFT STATION FORCE MAIN & WATERLINE TO SERVE 4.8 AC COMMERCIAL TRACT

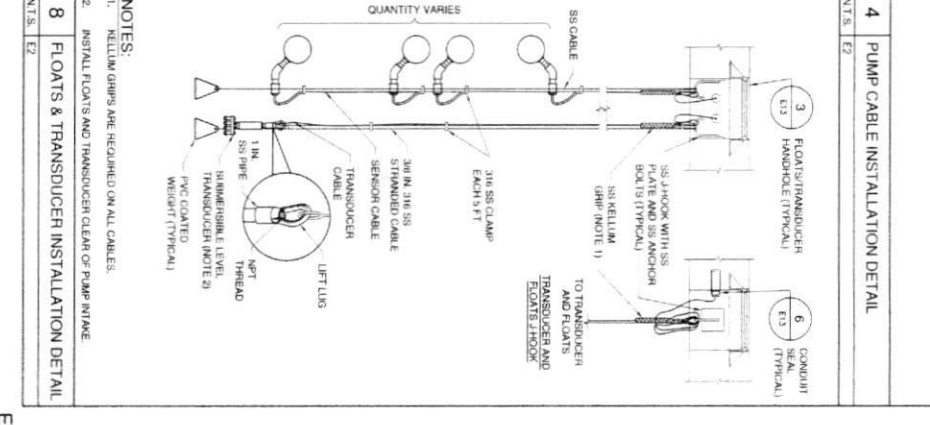
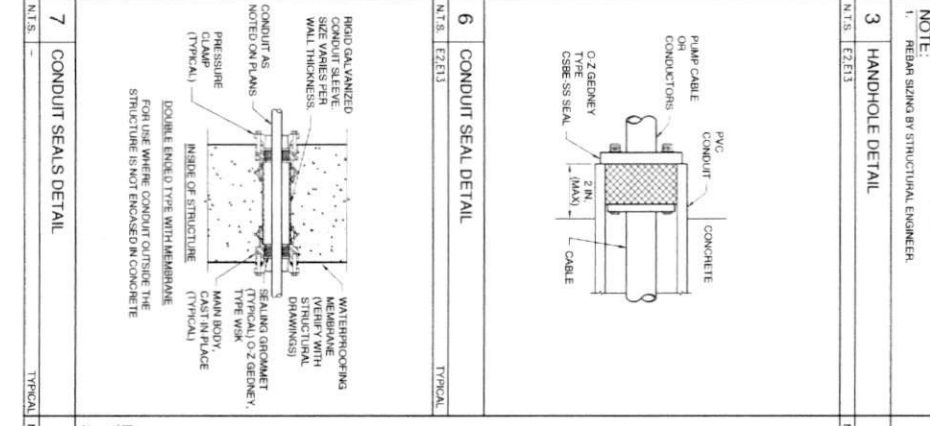
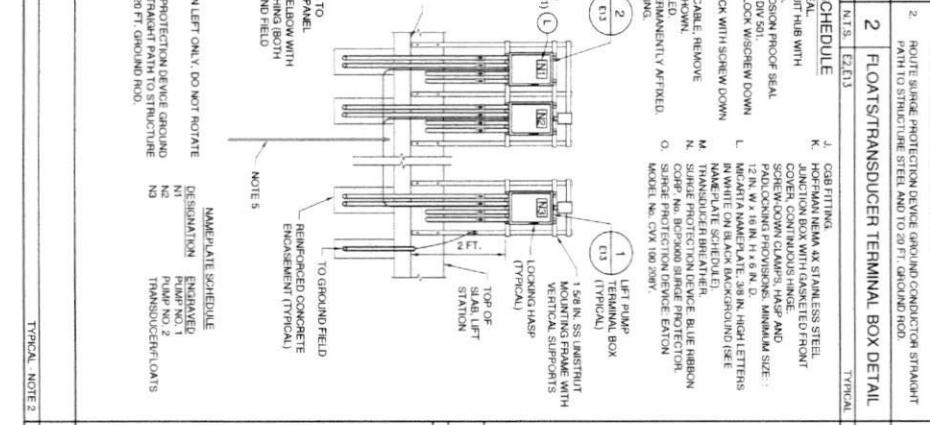
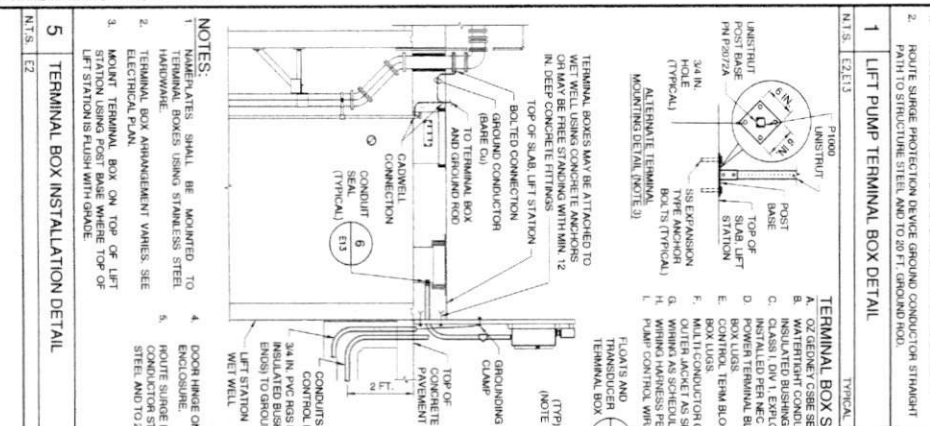
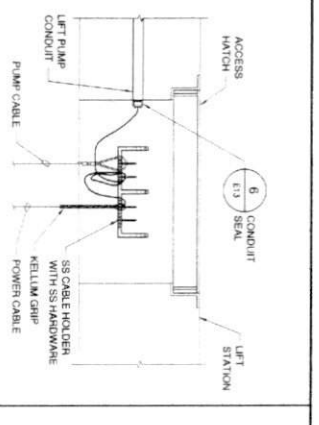
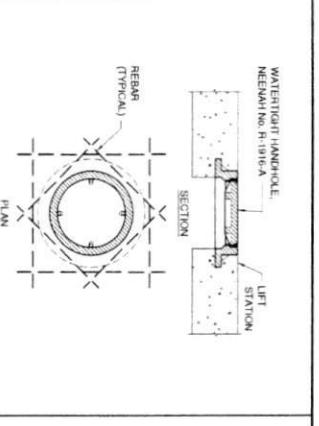
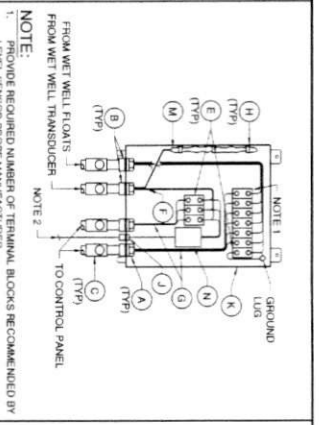
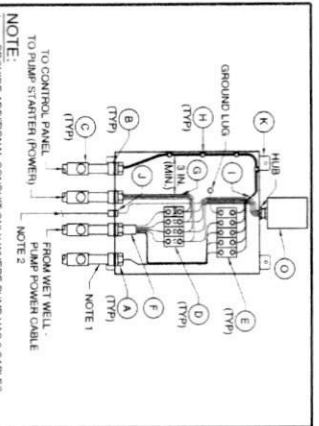
ELECTRICAL DETAILS SHEET 2

CITY OF HOUSTON

DATE: 11/11/2011

SCALE: AS SHOWN

PROJECT: 31 of 31



GENERAL NOTES:

1. MAINTAIN MINIMUM SEPARATION REQUIRED UNDER NEC ARTICLE 254, BETWEEN INTERNALLY SAFE CONTROL MOTOR FEEDER WIRING.
2. UNLESS OTHERWISE NOTED, ALL EXPOSED COMPONENTS SHALL BE PVC COATED RIBBON GALVANIZED STEEL.
3. UNLESS OTHERWISE NOTED, ALL NUTS, BOLTS, SCREWS WASHERS, ETC SHALL BE STAINLESS STEEL.

SHRADER ENGINEERING
ELECTRICAL & COMMUNICATIONS TECHNOLOGY

CITY OF HOUSTON
HARRIS-FORT BEND COUNTIES
MUNICIPAL UTILITY DISTRICT NO. 5
LEFT STATION FORCE MAIN & WATERLINE TO SERVE 4.8 AC COMMERCIAL TRACT

ELECTRICAL DETAILS SHEET 3

DATE: 02/27/25
DRAWING SCALE: AS NOTED
SHEET NO. 32 OF 37

