

REVIEW BY FORT BEND COUNTY COMMISSIONERS COURT

On this 08 day of MARCH, 2011, before the Fort Bend Commissioners Court came on to be heard and reviewed the accompanying notice of D. L. ELLIOTT ENTERPRISES, INC.

Job Location WEST AIRPORT BOULEVARD, CLOVER LODGE COURT, COBBLE SPRINGS COURT

Dated 02/24/11 BOND NO 58S201171 Permit No. 83912
to make use of certain Fort Bend County property subject to, "A Revised Order Regulating the Laying, Construction, Maintenance, and Repair of Buried Cables, Conduits, and Pole Lines, In, Under, Across or Along Roads, Streets, Highways, and Drainage Ditches in Fort Bend County, Texas, Under the Jurisdiction of the Commissioners Court of Fort Bend County, Texas," as passed by the Commissioners Court of Fort Bend County, Texas, date the 3rd day of August, 1987, recorded in Volume _____ of the Minutes of the Commissioners Court of Fort Bend County, Texas, to the extent that such order is not inconsistent with Article 1436a, Vernon's Texas Civil Statutes. Upon Motion of Commissioner Meyers, seconded by Commissioner Patterson, duly put and carried, it is ORDERED, ADJUDGED AND DECREED that said notice of said above purpose is hereby acknowledged by the Commissioners Court of Fort Bend County, Texas, and that said notice be placed on record according to the regulation order thereof.

Notes:

1. Evidence of review by the Commissioners Court must be kept on the job site and failure to do so constitutes grounds for job shutdown.
2. Written notices are required:
 - a. 48 hours in advance of construction start up, and
 - b. When construction is completed and ready for final inspection

Mail notices to: Permit Administrator
Fort Bend County Engineering
P.O. Box 1449
Rosenberg, Texas 77471
281-633-7500

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

By

D. L. Elliott
County Engineer

By

N/A
Drainage District Engineer/Manager

Presented to Commissioners Court
and approved.

Recorded in Volume 3-8-11
Minutes of Commissioners Court.

Clerk of Commissioners Court

By Sharon Gier
Deputy

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

AUTHORIZED
BOND NO 58S201171

THE STATE OF TEXAS §

KNOW ALL MEN BY THESE PRESENTS:

COUNTY OF FORT BEND §

THAT WE, D.L. Elliott Enterprises, Inc. whose
address is 13405 SW Freeway*, Texas, hereinafter called the Principal, *Suite 210, Sugarland
and Liberty Mutual Insurance Company, a Corporation existing under and by virtue of
the laws of the State of MA and authorized to do an indemnifying business in the State of
Texas, and whose principal office is located at 175 Berkeley St., Boston MA 02116, whose
officer residing in the State of Texas, authorized to accept service in all suits and actions brought
within said State is ** and whose address is 7600 W. Tidwell, Suite 708, Houston, TX 77040
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 Ninety Four Thousand Five Hundred Thirty-Seven
Dollars (\$94,537.50) current, lawful money of the United States of America, to be paid to said & 50/100
Robert E. Hebert, County Judge of Fort Bend County, Texas, or his successors in office, to which
payment well and truly to be made and done, we, the undersigned, bind ourselves and each of us,
our heirs, executors, administrators, successors, assigns, and legal representatives, jointly and
severally, by these presents.

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

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

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

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

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

EXECUTED this 15th day of February, 20 11.

D.L. Elliott Enterprises, Inc.

PRINCIPAL

BY

Liberty Mutual Insurance Company

SURETY

Dennis M. Descant, Jr.

Attorney-in-Fact

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.

LIBERTY MUTUAL INSURANCE COMPANY
BOSTON, MASSACHUSETTS
POWER OF ATTORNEY

KNOW ALL PERSONS BY THESE PRESENTS: That Liberty Mutual Insurance Company (the "Company"), a Massachusetts stock insurance company, pursuant to and by authority of the By-law and Authorization hereinafter set forth, does hereby name, constitute and appoint **DENNIS M. DESCANT, JR., JEFFREY LEE BRADY, CHERYL A. SANDERS, ALL OF THE CITY OF HOUSTON, STATE OF TEXAS**

....., 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 the penal sum not exceeding **TWENTY FIVE MILLION AND 00/100******* DOLLARS (\$ **25,000,000.00*******) each, and the execution of such undertakings, bonds, recognizances and other surety obligations, in pursuance of these presents, shall be as binding upon the Company as if they had been duly signed by the president and attested by the secretary of the Company in their own proper persons.

That this power is made and executed pursuant to and by authority of the following By-law and Authorization:

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.

By the following instrument the chairman or the president has authorized the officer or other official named therein to appoint attorneys-in-fact:

Pursuant to Article XIII, Section 5 of the By-Laws, Garnet W. Elliott, Assistant Secretary of Liberty Mutual Insurance Company, is hereby authorized to 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.

That the By-law and the Authorization set forth above are true copies thereof and are now in full force and effect.

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Company and the corporate seal of Liberty Mutual Insurance Company has been affixed thereto in Plymouth Meeting, Pennsylvania this 6th day of August, 2007.

LIBERTY MUTUAL INSURANCE COMPANY

By Garnet W. Elliott
Garnet W. Elliott, Assistant Secretary

COMMONWEALTH OF PENNSYLVANIA ss
COUNTY OF MONTGOMERY

On this 6th day of August, 2007, before me, a Notary Public, personally came Garnet W. Elliott, to me known, and acknowledged that he is an Assistant Secretary of Liberty Mutual Insurance Company; that he knows the seal of said corporation; and that he executed the above Power of Attorney and affixed the corporate seal of Liberty Mutual Insurance Company thereto with the authority and at the direction of said corporation.

IN TESTIMONY 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 Mar. 28, 2009
Member, Pennsylvania Association of Notaries

By Teresa Pastella
Teresa Pastella, Notary Public

CERTIFICATE

I, the undersigned, Assistant Secretary of Liberty Mutual Insurance Company, do hereby certify that the original power of attorney of which the foregoing is a full, true and correct copy, is in full force and effect on the date of this certificate; and I do further certify that the officer or official who executed the said power of attorney is an Assistant Secretary specially authorized by the chairman or the president to appoint attorneys-in-fact as provided in Article XIII, Section 5 of the By-laws of Liberty Mutual Insurance Company.

This certificate and the above power of attorney may be signed by facsimile or mechanically reproduced signatures under and by authority of the following vote of the board of directors of Liberty Mutual Insurance Company at a meeting duly called and held on the 12th day of March, 1980.

VOTED that the 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.

IN TESTIMONY WHEREOF, I have hereunto subscribed my name and affixed the corporate seal of the said company, this 15th day of February, 2011.

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

Not valid for mortgage, note, loan, letter of credit, bank deposit, 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.



Important Notice

TO OBTAIN INFORMATION ABOUT THIS BOND OR TO MAKE A COMPLAINT:

You may contact the Texas Department of Insurance to obtain information on companies, coverages, rights or complaints at:

800-252-3439

You may write the Texas Department of Insurance at:

P. O. Box 149104
Austin, TX 78714-9104

Your notice of claim against the attached bond may be given to the Surety Company that issued the bond by sending it to the following address:

Liberty Mutual Surety
Interchange Corporate Center
450 Plymouth Road, Suite 400
Plymouth Meeting, PA 19462-8284

You may contact the claim office by telephone at:

610-832-8240

Premium or Claim Disputes

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

This notice is for information purposes only and does not become a part of or a condition of the attached document. It is given to comply with Section 2253.048, Government Code, and Section 53.202, Property Code, Effective September 1, 2001

COUNTY OF FORT BEND

Engineering Department

P.O. BOX 1449
Rosenberg, Texas 77471-1449

Johnny Ortega
Permit Administrator

1124 Blume Road
Phone: (281) 341-7500

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

PERMIT NO. 083912

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

- X (1) Complete Application Form.
- X a. Name of road, street, and/or drainage ditch affected.
- X b. Vicinity map showing course of direction.
- c. Plans and specifications.

- (2) Bond:
- District Attorney, approval when applicable.
- Perpetual bond currently posted.
- No.
- Amount
- X Performance bond submitted.
- No. 58S201171
- Amount \$94,537.50
- Cashier's Check.
- No.
- Amount

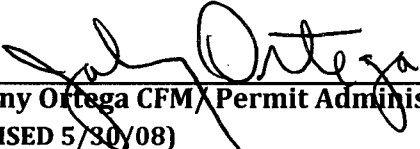
- (3) Verbal permission given for emergencies, to start construction before approved in Commissioner's Court.

 Precinct Engineer Acknowledgment Date

 Precinct Commissioner Acknowledgment Date

- (4)
- Drainage District Approval when applicable

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


Johnny Ortega CFM, Permit Administrator
(REVISED 5/30/08)

02/24/2011
Date

**NOTICE OF PROPOSED CABLE, CONDUIT AND/OR POLE LINE ACTIVITY
IN, UNDER, ACROSS OR ALONG ROADS, STREETS, HIGHWAYS AND DRAINAGE DITCHES
IN FORT BEND COUNTY**

APPLICANT'S JOB NO. 222
 PERMIT No. 83912 PCT. No. 9
 BOND No. 58520111

Formal notice is hereby given that D.L. ELLIOTT Enterprises, Inc.,
 proposes to lay, construct, maintain and/or repair cable, conduit and/or pole line, in, under,
 across, or along roads, streets, highways and drainage ditches in Fort Bend County, as follows:

In, Under, or Across Roads and/or Drainage Ditches

Road or Ditch Name	Distance & Direction From Nearest Intersection	Length of Crossing	Type of Construction Bored: Jacked: Driven: Cased
West Airport Blvd	0 LF S of Cobble Springs	200 LF	✓

Along Roads and/or Drainage Ditches

Road or Ditch Name	Distance & Direction From Nearest Intersection	To	Distance
Clover Lodge Ct.	50 LF South of West Airport Blvd	West Airport Blvd	250 LF
Cobble Springs	0 LF North of West Airport Blvd	West Airport Blvd	450 LF

General Description

Proposed 12" Waterline For NFBWA

The Location and description of the proposed installation and appurtenances is more fully shown on the attached detail drawings. The laying, construction, maintenance and/or repair of the proposed installation shall be subject to "A Revised Order Regulating the Laying, Construction, Maintenance and/or Repair of Cables, Conduits, and/or Pole Lines, In, Under, Across, or Along Roads, Streets, Highways and Drainage Ditches in Fort Bend County, Texas, Under the Jurisdiction of the Commissioners Court of Fort Bend County, Texas," as passed by Commissioners Court of Fort Bend County, Texas, dated the 3rd. day of August, 1987, recorded in Volume 639 of the Minutes of the Commissioners Court of Fort Bend County, Texas.

Written notices are required: 1) 48 hours in advance of start of construction and
 2) when construction is complete and ready for final inspection.

Mail to: Permit Administrator/Fort Bend County Engineering
 P.O. Box 1449, Rosenberg, TX 77471.

Violation of requirements shall constitute grounds for job shut down.

COMPANY NAME: D.L. ELLIOTT Enterprises, Inc.
 AGENT and/or OWNER

182
 (Signature)

NAME & TITLE Dwayne Schroeder V.A.
 (Please Print)

DATE 2/24/2011

ADDRESS 13405 Southwest Freeway, Suite 210
 (Street/P.O. Box)

Sugar Land TX 77478
 City State Zip

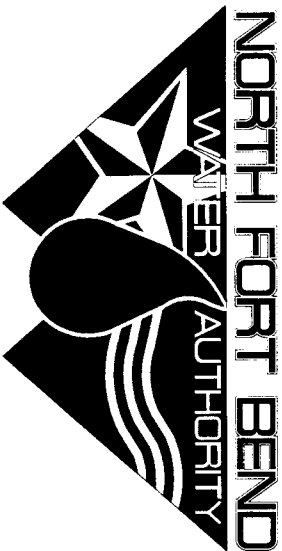
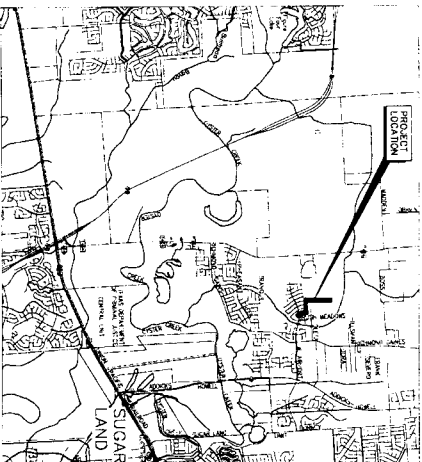
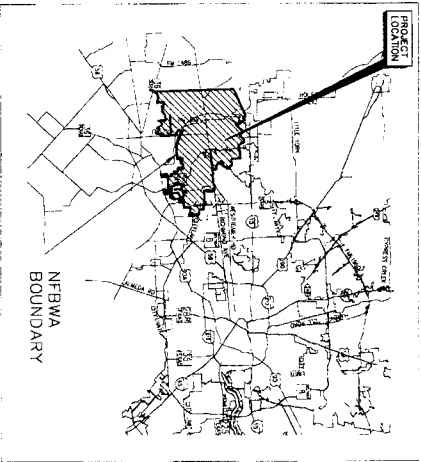
TELEPHONE NO: 281-838-4220
 (accessible 24 hrs/day, 7 days/week)

Does project
 comply with Fort
 Bend County
 Outdoor Lighting
 Ordinance?

Yes (/)

No ()

NORTH FORT BEND WATER AUTHORITY
FORT BEND COUNTY M.U.D. No. 41 CONNECTION
PROPOSED 12" WATERLINE



DIRECTORS
DAVID SPELL
ROBERT DARDEN
BRUCE FAY
MELONY F. GAY, P.E.
ROBERT L. PATTON
PETER HOUGHTON
PAT HEBERT

PRECINCT
1
2
3
4
5
6
7



David Spell
DAVID SPELL
City Engineer
Fort Bend County Engineer

Pat Hebert
PAT HEBERT
City Engineer
Fort Bend County Engineer

ONE-CALL NOTIFICATION SYSTEM
CALL BEFORE YOU DIG!!
(713) 223-4687 (In Houston)
(New Statewide Number Outside Houston)
1-800-545-8005

- NOTES:
- Contractor shall notify the City of Houston, Department of Public Works and Engineering (713-637-7000) 48 hours before starting work on this project.
 - Contractor shall notify the City of Houston, Department of Public Works and Engineering (713-637-7000) 48 hours before starting work on this project.
 - No proposed storm sewer or drainage work is shown, nor any proposed change in drainage path or pattern is in this project proposed work scope.
 - No known proposed wastewater line work is included in this project's work scope.

SEE SHEET TWO FOR INDEX

JC JONES & CARTER INC.
ENGINEERS PLANNERS SURVEYORS
10001 Katy Freeway, Suite 100, Houston, Texas 77057 (713) 777-5337



CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING
11/13/10
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REV. NO.

DWG. NAME

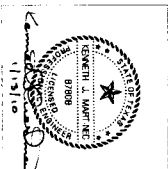
REVISION DATE

01	COVER SHEET
02	SHEET INDEX
03	CONSTRUCTION NOTES
04	SURVEY CONTROL SHEET 1 OF 2
05	SURVEY CONTROL SHEET 2 OF 2
06	OVERALL SITE LAYOUT
07	BASELINE A STA 0+00 TO 5+00
08	BASELINE A STA 5+00 TO 8+00
09	BASELINE B STA 0+00 TO 5+00
10	BASELINE B STA 5+00 TO 9+00
11	BASELINE C STA 0+00 TO 5+00
12	BASELINE C STA 5+00 TO 10+00
13	BASELINE D STA 0+00 TO 2+50
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15	STORM WATER POLLUTION PREVENTION PLAN
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17	FREE PROTECTION PLAN SHEET 2 OF 2
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23	CONTROL DIAGRAM SHEET 2
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25	CONTROL DIAGRAM SHEET 4
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29	CONTROL DIAGRAM SHEET 8
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33	ELECTRICAL CONTROL PANEL LAYOUT
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41	STORM WATER POLLUTION PREVENTION DETAILS
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43	

PRIVATE UTILITY LINES SHOWN

Date: 1-14-10
Drawn by: J. Jones
Checked by: J. Jones
Date: 1-14-10
Approved by: J. Jones
Date: 1-14-10

NOTICE:
AT LEAST 48 HOURS BEFORE EXCAVATING IN STREET
FOR ANY PRIVATE UTILITY LINES, THE CITY OF HOUSTON
MAY BE CONTACTED AT 713-251-1111.
TO ASSISTANCE FOR THE CITY OF HOUSTON, THE CITY OF HOUSTON
MAY BE CONTACTED AT 713-251-1111.
AN EXISTING PRIVATE UTILITY LINE IS SHOWN ON THIS DRAWING
AND THE CITY OF HOUSTON IS NOT RESPONSIBLE FOR THE LOCATION
OR DEPTH OF ANY PRIVATE UTILITY LINES SHOWN ON THIS DRAWING.
THE CITY OF HOUSTON IS NOT RESPONSIBLE FOR THE LOCATION
OR DEPTH OF ANY PRIVATE UTILITY LINES SHOWN ON THIS DRAWING.



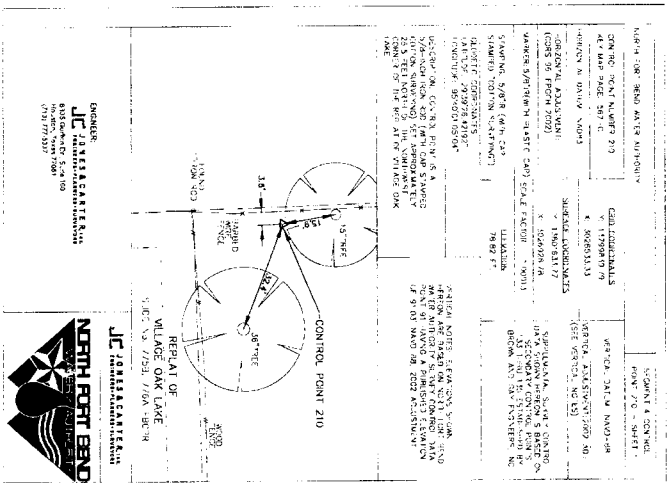
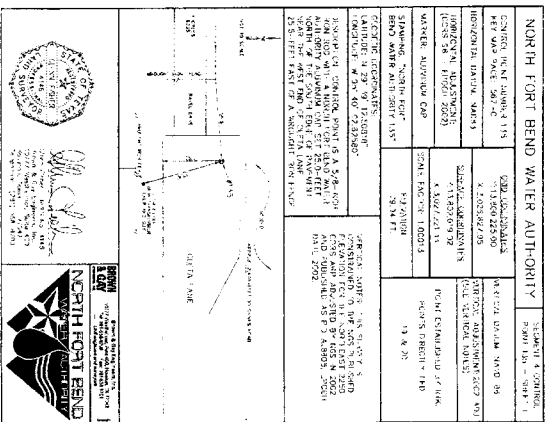
J. JONES & ASSOCIATES
ENGINEERS-PLANNERS-ARCHITECTS
10000 Katy Road, Suite 1000, Houston, Texas 77054
F.B.C. MUD. NO. 41 CONNECTION

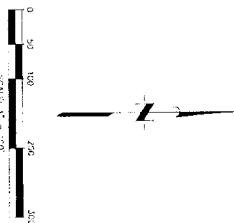
SHEET INDEX



DATE: 1-14-10
BY: J. Jones
CHECKED BY: J. Jones
DATE: 1-14-10
APPROVED BY: J. Jones
DATE: 1-14-10

DATE: 1-14-10
BY: J. Jones
CHECKED BY: J. Jones
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APPROVED BY: J. Jones
DATE: 1-14-10

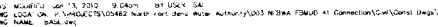
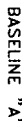


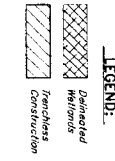
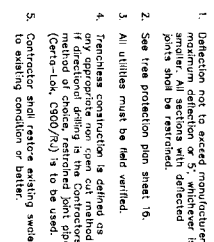


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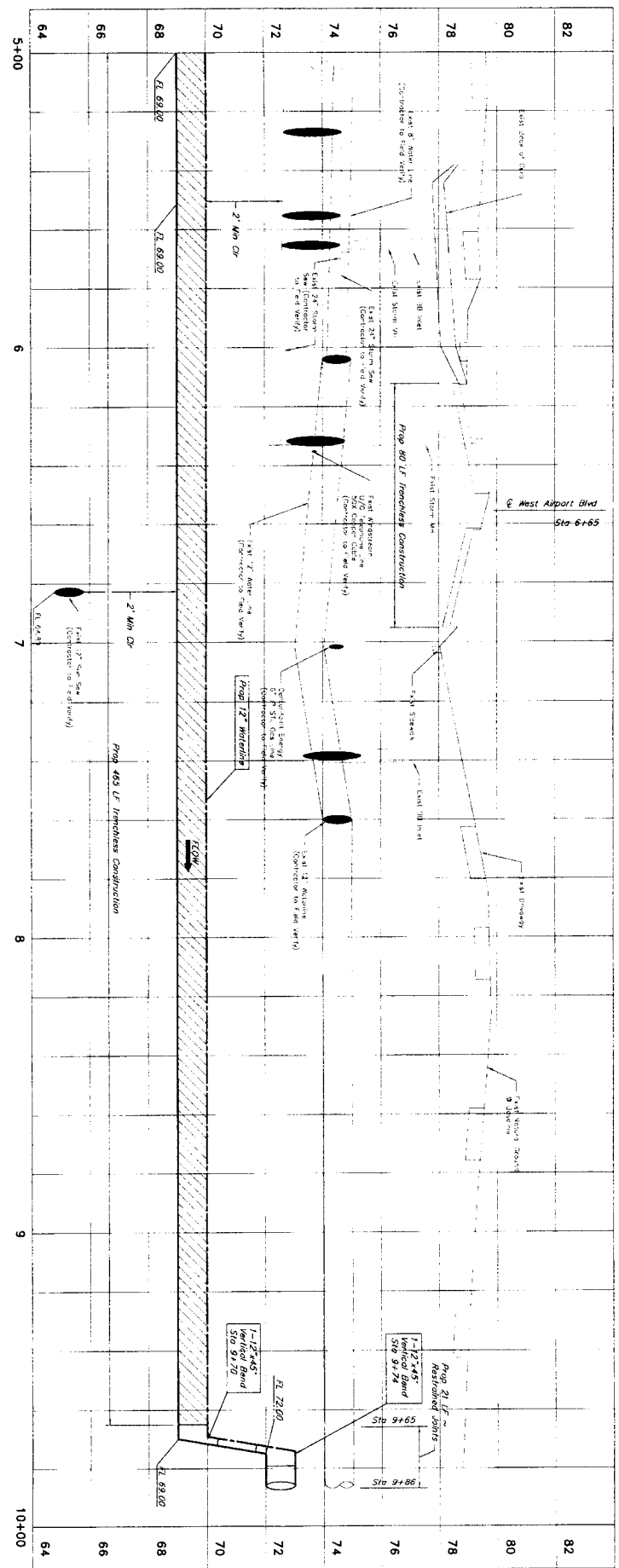


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- Acireage

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Deflection not to exceed manufacturer's maximum deflection or 5", whichever is smaller. All sections with restrained joints shall be restrained.

Contractor shall remove and replace existing wooden fence from Sta. 9+12.10' to 9+86.37' as required by the 12" water line. Secure fencing must be installed during non-construction hours. Contractor shall replace to original condition or better upon completion of construction. Maintain water plant security at all times. All utilities must be field verified.

1996

Date: 1-17-97

OFF OR MOVED.

2002 ADJ. STVEN

directors method of choice, restrained joint pipe end-block, C900(RJ) is to be used.

13/10

AP

SECTION

10-0-0

DATE

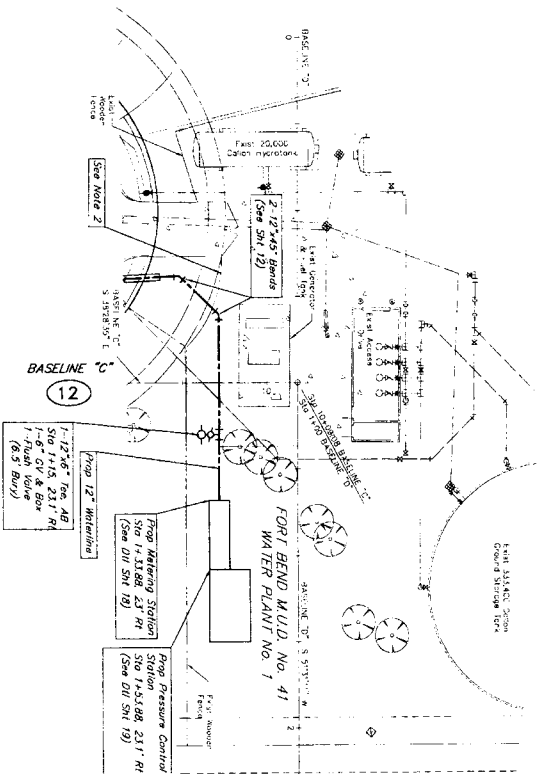
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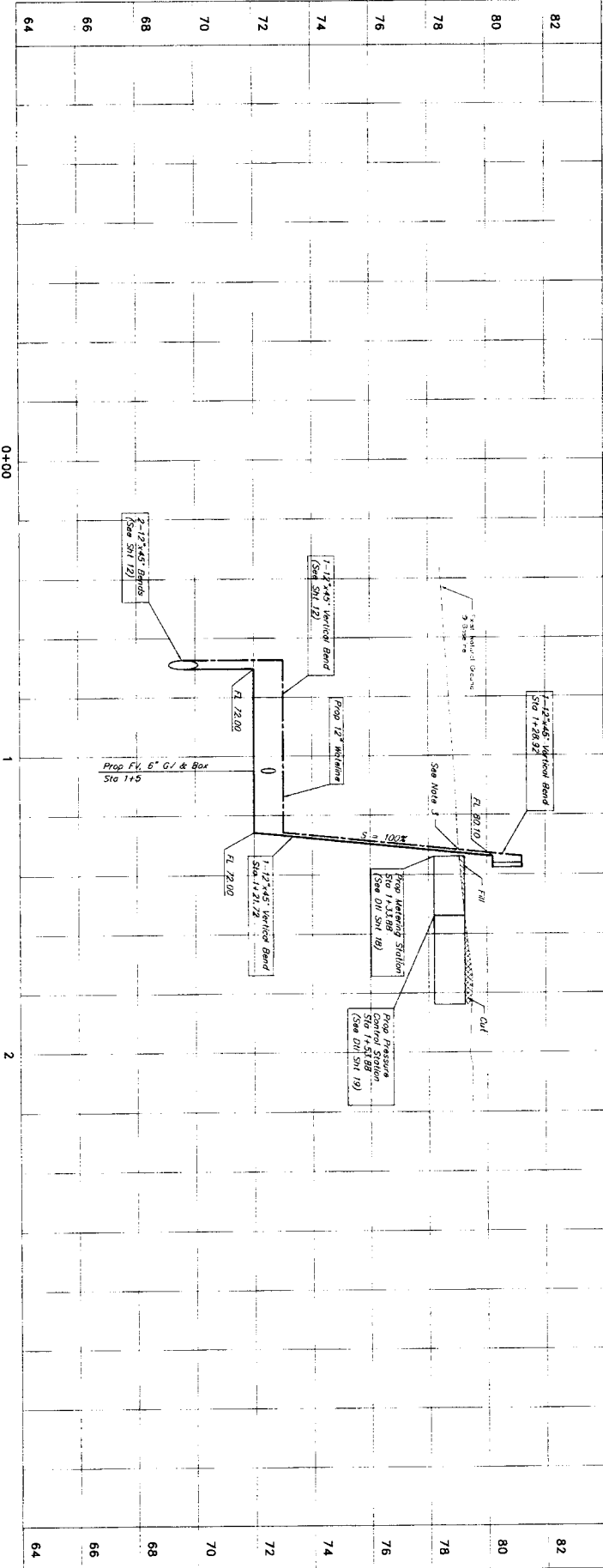
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- NOTES:
1. Deflection not to exceed manufacturer's maximum deflection or 1/4\"/>
 2. Contractor shall remove and replace existing wooden fence from Sta 9+72.10' to 9+85.37' LL, as required to install 12\"/>
 3. All below ground proposed 12\"/>



PRIVATE UTILITY LINES SHOWN

Date: 1-28-10

Scale: 1\"/>

Drawn by: J. Jones

Checked by: J. Jones

Reviewed by: J. Jones

Approved by: J. Jones

Notice:

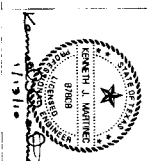
At least 48 hours before excavating in shall R.O.W. OR EASEMENTS ONLY. ONE DAY NOTICE. CALL (713) 723-4517 OR 1-800-682-4344.

TO AVOID FOR L.N.S. TO BE TURNED OFF OR DOWN.

CALL (713) 723-4517.

REMARK: CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL AFFECTED AGENCIES.

DATE: 01/28/10



J. JONES & CARTER, INC.

10000 Katy Freeway, Suite 100, Houston, Texas 77054 (713) 777-8537

F.B.C. MUD NO. 41 CONNECTION

DATE: 01/28/10

REVISION:

NO. DATE



CITY OF HOUSTON

DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

PROJECT NO. 040110

PROJECT NAME: F.B.C. MUD NO. 41 CONNECTION

DATE: 01/28/10

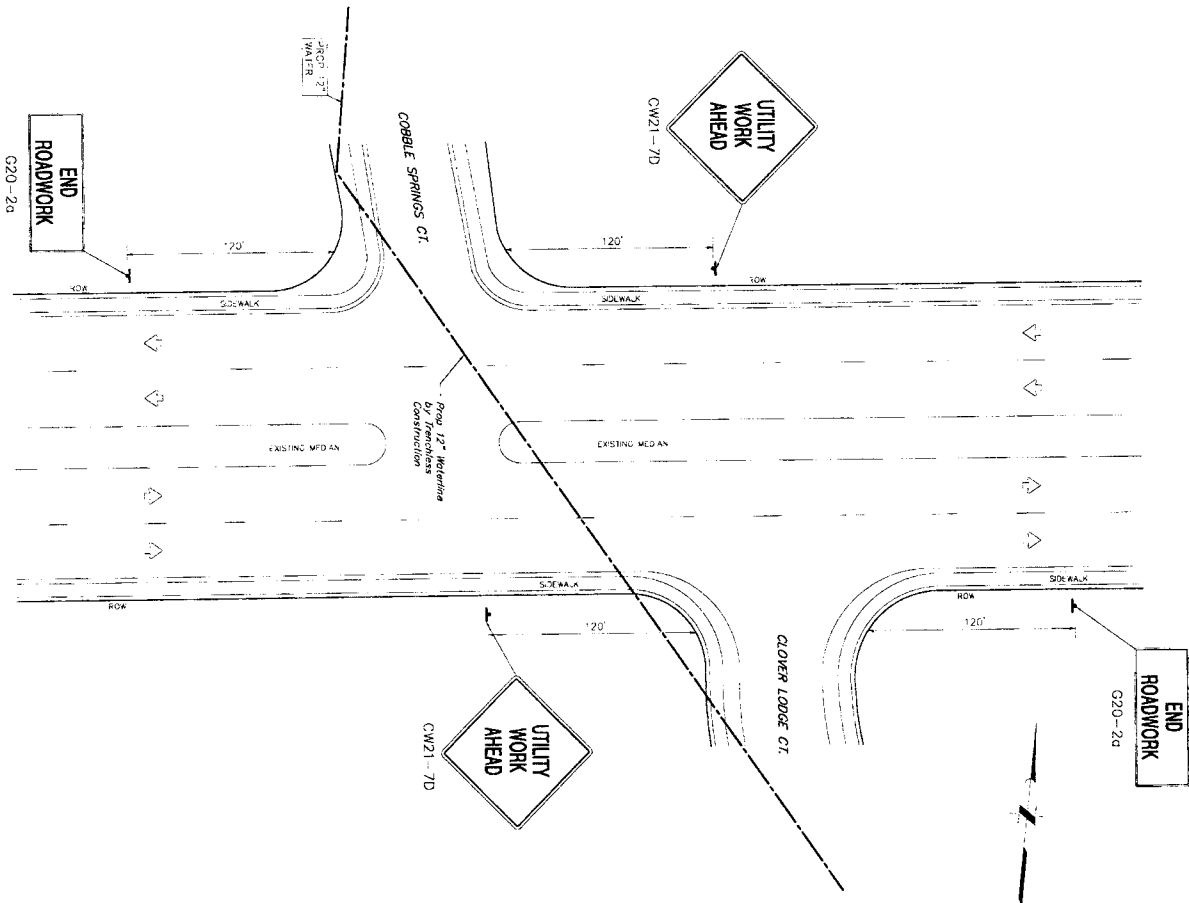
SCALE: 1\"/>

DATE: 01/28/10

SCALE: 1\"/>

DATE: 01/28/10

SCALE: 1\"/>



TRAFFIC CONTROL ALONG
WEST AIRPORT BLVD.
FOR BORING UNDER ROADWAY

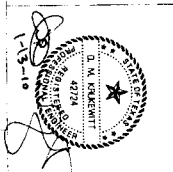
POSTED SPEED 30 MPH

CONSTRUCTION WARNING
SIGN SPACING

Posted Speed or 85% Speed (MPH)	Min. Distance (feet)	X
30 or less	120	
35	160	
40	200	
45	240	
50	280	
55	320	
65	400	
	500	
	700	

LEGEND

- OPEN TO TRAFFIC
- SIGN WITH POST
- TUBULAR MARKERS, CONES OR DRUMS



NO. 1	DATE	REVISION	APPROVAL
1			
2			
3			
4			

JC JONES & CARTER, INC.
Professional Engineers
10000 Katy Road, Suite 100, Houston, Texas 77054
832.991.0124 • 832.991.0125 • 832.991.0126 • 832.991.0127

F.B.C. MUD. No. 41 CONNECTION

TRAFFIC CONTROL PLAN



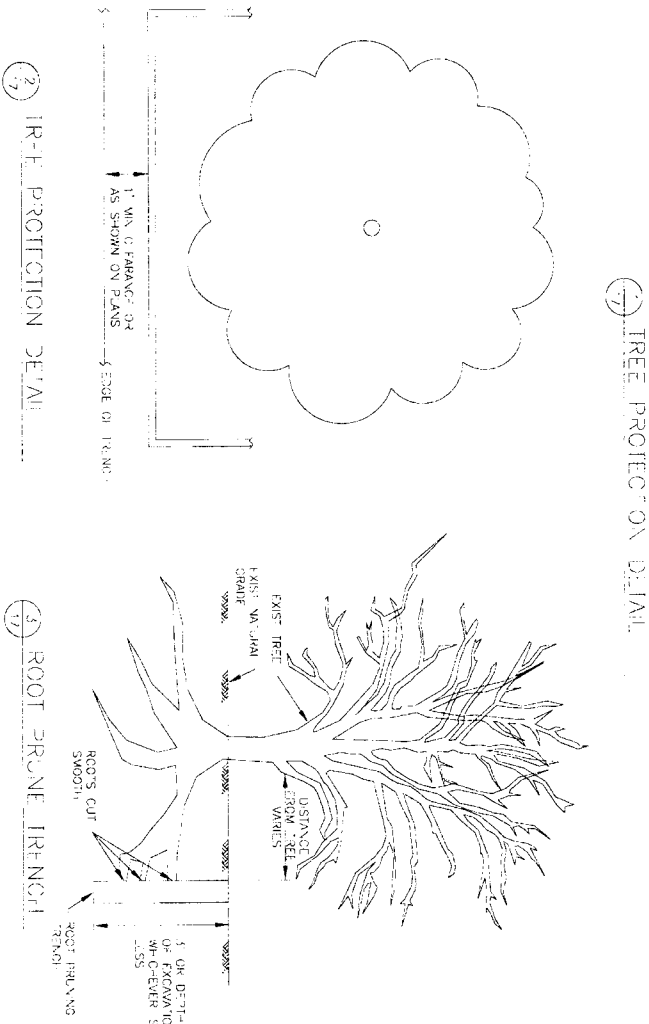
CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING
Project No. 4728/10
Project Name: F.B.C. MUD. No. 41 CONNECTION

DATE: 11/18/2010
BY: [Signature]
CHECKED BY: [Signature]
DATE: 11/18/2010

DESIGNED BY: [Signature]
CHECKED BY: [Signature]
DATE: 11/18/2010

SCALE: AS SHOWN
SHEET NO. 14 OF 43

5/11/10



- F.B.C. M.U.D. No. 41 CONNECTION

TREE PROTECTION PLAN
SHEET 2 OF 2



CITY OF HOUSTON

DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

9/22/10

0 | PAVIC

Contract 1-64-76

2008.1.21.13

FOR CITY OF LOS ANGELES

Circumstance	U.S. adults (%)	U.S. military personnel (%)
If someone is attacking you	~85	~45
If someone is threatening you	~75	~70
If someone is stealing from you	~70	~65
If someone is harassing you	~65	~60
If someone is insulting you	~55	~60

100% H_2SO_4 and 100% HNO_3 (A.R.)

DRAWING SCALE

AS 547008

1805.1

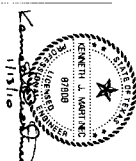
CITY DRAWING NUMBER

100

43

Year	Number of cases	Number of deaths	Number of hospitalizations
2019	1,234	45	156
2020	2,345	89	312
2021	3,456	123	456
2022	4,567	167	589
2023	5,678	210	723
2024	6,789	254	856
2025	7,890	298	989
2026	8,901	342	1,123
2027	9,012	386	1,256
2028	9,123	430	1,389
2029	9,234	474	1,523
2030	9,345	518	1,656

5/17/18



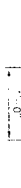
b7c



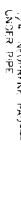
SCALE: NIS



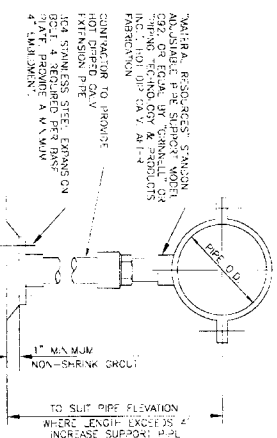
4
-OLD DOWN STRAP, CHAIR



SECTIONAL DETAIL



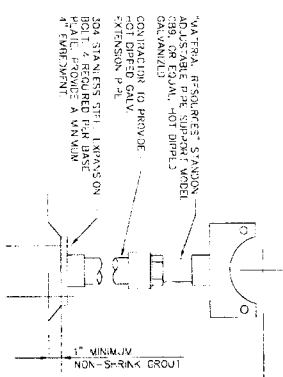
② CONCRETE PUF SUPPORT DEAN



6 AIR VALVE: DEFUALT
SCALE: NTS



STRUCTURAL DATA
SCALE: NTS



PIPE SUPPORT DETAILS

NO.	DATE	REVISION	APPROVED
4			
3			
2			
1			

F.B.C. M.U.D. No. 41 CONNECTION

MILLIKING & CONTROL VALVE SIMULATION STRUCTURAL & MECHANICAL DESIGN



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

CITY OF HOUSTON

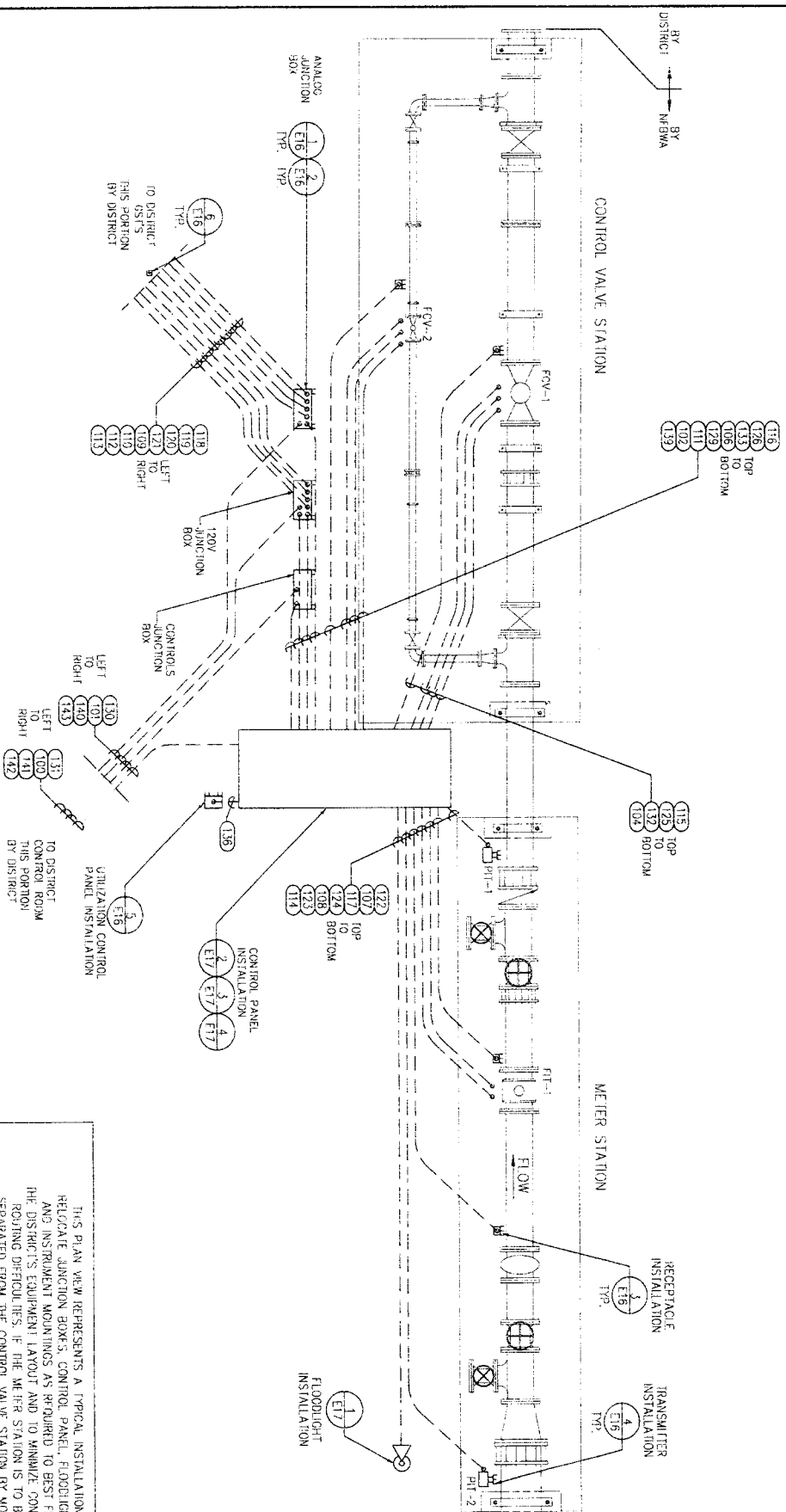
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

[illegible]

FOR CITY OF HOUSTON USE ONLY
CITY OF HOUSTON

46954

VOLUME _____
 SERIAL NO. _____
 20 OF 43
 98-764-1000
 98-764-1000



THIS PLAN VIEW REPRESENTS A TYPICAL INSTALLATION, RELOCATE JUNCTION BOXES, CONTROL PANEL, FLOODLIGHT, AND INSURGENT MOUNTINGS AS REQUIRED TO BEST FIT THE DISTRICT'S EQUIPMENT LAYOUT AND TO MINIMIZE CONDUIT ROUTING DIFFICULTIES. IF THE METER STATION IS TO BE SEPARATED FROM THE CONTROL VALVE STATION BY MORE THAN 50', PROVIDE A SECOND FLOODLIGHT. SO BOTH AREAS ARE ILLUMINATED.

LEGEND

- | | |
|--|---|
| E | ELECTRICAL CORD BURN WARNING (SEE D11, SH-ET-6) |
| GROUND CONDUCTOR | |
| ELECTRICAL NOCT BURN (SEE D11, SH-ET-7) | |
| == -3 | CAPACITATED ELECTRICAL CONDUCT |
| 0 + 1 | GROUND ROD |
| <E | WEATHERHEAD |
| ROD/ROD/CLUT (SEE D11, SH-ET-7) | |

TYPICAL ELECTRICAL SITE PLAN
N.T.S.

NOTES

1. ALL ASPECTS OF THIS INSTALLATION SHALL COMPLY WITH LOCAL AND NATIONAL CODES.
2. CONDITIONS OR PLANS OF TRAVEL ROUTE IN CONFLICT WITH OTHER PAVING CONDITIONS, EQUIPMENT OR STRUCTURES.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING ANY TYPE OF SLOPE, PERMITS TO CROSS, ETC., THAT MAY BE REQUIRED TO PLAY VIEW CONCEPT ROUTING IS DIAGRAMATIC ONLY. ROUTE BEST WAY NAVIGATING DEVIATIONS.
4. ALL EXTERIOR ABOVE GROUND CONDUIT IS TO BE RIGID GALVANIZED STEEL.
5. ALL MOUNTING HARDWARE, SUPPORTS, CLAMPS, BRACKETS & ANCHORS ARE TO BE STAINLESS STEEL UNLESS SHOWN OTHERWISE.
6. ALL CABLES PAIR COUSE
7. GFI COMPONENTS SHOULD HAVE TWO EXISTING DISJUNCT CIRCUITS AND TWO SEPARATE SWITCHES. SPENDING & GFI PROTECTION SHALL BE NUMBER OF GFI'S PERMITTED FOR FUTURE TO THE FULLEST EXTENT POSSIBLE.
8. ALL HEAT TRACE TAP IS TO BE 90 DEGREE MAX MAINTAIN PROTECTION TO PREVENT VOLTAGE TRANSFER BY INSULATION HOT BOX OR INSULATION BLANKETS & A MINIMUM OF ONE INCH BURN RESISTANT PROTECTIVE COVERING SHALL BE REQUIRED THROUGHOUT DURABILITY W/REPAIR PROTECTION WITHOUT OBTAINING.

1	NO. DATE	REVISION	APPROVED
2			
3			
4			

BROWN & GAY
HOUSTON, TX

Brown & Gay Engineers, Inc.
10117 Westheimer, Suite 400, Houston, TX 77042
Tel. 281/938-9700 Fax 281/558-9701
— Civil Engineers and Surveyors —

Brymcon, Inc.

Electrical Engineering
TBPE Registration No. F-377
8320 White Road Beaumont, TX 77608 (409) 806-7799

METER AND CONTROL VALVE STATION
INSTALLATION & ROUTING

CITY OF HOUSTON

DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

SECRET & SRI
01 Feb 42

Robert Gentry

NY 100-1-21-70

STONY WATER WALK

67.10.13

100

FOR CITY OF WASHINGTON USE ONLY
01, 30[illegible]

Costs and Energy

GRAND TOTAL

I

16034

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1010
CITY LIBRARY

75

2

Figure 1

NOTES:

1. ALL VALVES FAIL CLOSE
2. GSI COMPONENTS SHOWN HERE ARE TWO EXISTING DISTRICT GSI'S AND TWO FUTURE GSI'S. MATCH SIGNAL SPLITTERS & GSI SELECTOR SWITCH POLES TO DISTRICTS ANTICIPATED ULTIMATE NUMBER OF GSI'S. PREPARE FOR FUTURE TO THE FULLEST EXTENT POSSIBLE.
3. ALL HEAT TRACE TAPE IS TO BE TWO DESIGNE MAX MANTAIN, CONTRAC OR TO PROVIDE VALVE & TRANSMITTER INSULATION, HOT BOX, OR INSULATION BLANKETS IN A FASHION TO ALLOW EASE OF OPERATION & CALIBRATION. LONG TERM WEATHERPROOF DURABILITY W/ FREEZE PROTECTION WITHOUT OVERHEATING.

LEGEND

- 129 - 3A FUSED TERMINAL BLOCK
- 2A-38 FUSED TERMINAL BLOCK
- 3A TERMINAL BLOCK
- 3B P.L.C. TERMINAL



NO.	DATE	SECTION	REVISION
1			
2			
3			

BROWN & GAY
10717 Katy Freeway, Suite 400, Houston, TX 77059
(713) 568-4700
Civil Engineers and Surveyors -

Brymcon, Inc.

Electrical Engineering
3520 White Road, Baytown, TX 77528
(409) 506-1096

CONTROL DIAGRAM
SHEET 1

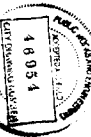


CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

DATE: 04/26/06
BY: J. Williams
CHECKED: J. Williams
APPROVED: J. Williams

5/11/06

DATE: 04/26/06
BY: J. Williams
CHECKED: J. Williams
APPROVED: J. Williams



0315 - J09290412.0003

REF. NO. 23 OF 43



NOTES: 1. ALL VALVES FAIL CLOSE
2. GSI COMPONENTS SHOWN HERE ARE TWO EXISTING DISTRICT GSI'S AND TWO FUTURE GSI'S. MATCH SIGNAL SPLITTERS & GSI SELECTOR SWITCH POLES TO DISTRICTS ANTICIPATED ULTIMATE NUMBER OF GSI'S. PREPARE FOR FUTURE TO THE FULLEST EXTENT POSSIBLE.
3. ALL HEAT TRACE TAPE IS TO BE TWO DESIGNE MAX MANTAIN, CONTRAC OR TO PROVIDE VALVE & TRANSMITTER INSULATION, HOT BOX, OR INSULATION BLANKETS IN A FASHION TO ALLOW EASE OF OPERATION & CALIBRATION. LONG TERM WEATHERPROOF DURABILITY W/ FREEZE PROTECTION WITHOUT OVERHEATING.

NOTES:

1. ALL VALVES FAIL CLOSE
2. GSI COMPONENTS SHOWN HERE ARE TWO EXISTING DISTRICT GSI'S AND TWO FUTURE GSI'S. WATCH SIGNAL SWITCHES & GSI SELECTOR SWITCH POLES TO DISTRICT'S ANTICIPATED ULTIMATE NUMBER OF GSI'S. PREPARE FOR FUTURE TO THE FULLEST EXTENT POSSIBLE.
3. ALL HEAT TRACE TYPE IS TO BE 150 DEGREE MAX MAINTAIN. CONTRACTOR TO PROVIDE VALVE & TRANSMITTER INSULATION, HOT BOX OR INSULATION BLANKETS IN A FASHION TO ALLOW EASE OF OPERATION & CALIBRATION. LONG TERM WEATHERPROOF DURABILITY W/ FREEZE PROTECTION WITHOUT OVERHEATING.

LEGEND

- 129 FUSED TERMINAL BLOCK
 FUSED TERMINAL BLOCK
 TERMINAL BLOCK
 PLC TERMINAL



NO.	DATE	REVISION	APPROVAL
1			
2			
3			
4			

BROWN & GAY
Brown & Gay Engineers, Inc.
10777 Westheimer Rd., Suite 100 Houston, TX 77042
Tel: 281-458-0700 Fax: 281-458-0701
... Civil, Mechanical and Surveying ...
Houston, TX

Brymcon, Inc.

Electrical Engineering
7806 Regeneration Blvd. F-325
8320 West 4th Road, Houston, TX 77036 (409) 866-0096

CONTROL DIAGRAM
SHEET 2

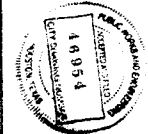


CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS & ENGINEERING

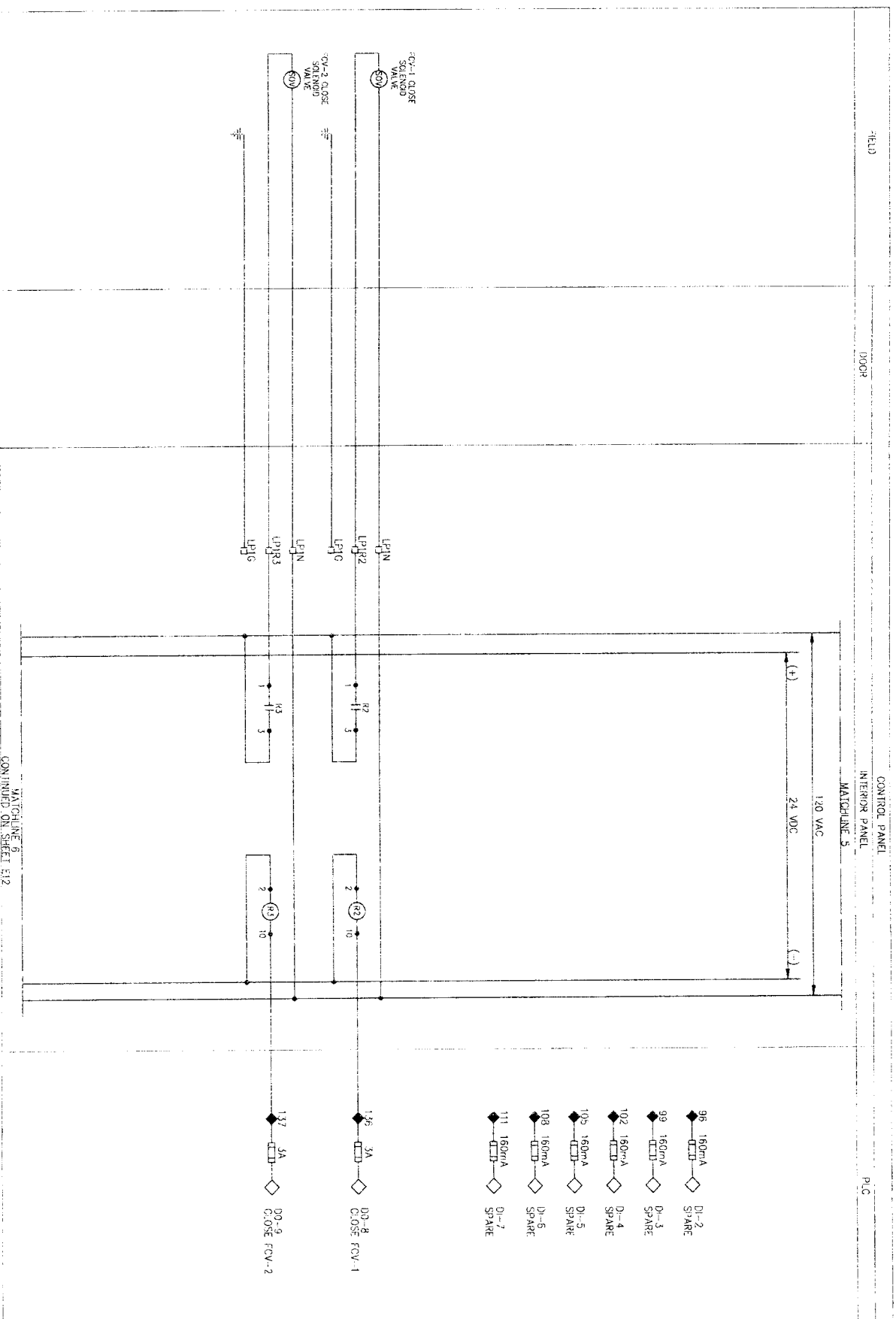
PROJECT: 150 DEGREE MAX MAINTAIN
CONTRACTOR TO PROVIDE VALVE & TRANSMITTER INSULATION, HOT BOX OR INSULATION BLANKETS IN A FASHION TO ALLOW EASE OF OPERATION & CALIBRATION. LONG TERM WEATHERPROOF DURABILITY W/ FREEZE PROTECTION WITHOUT OVERHEATING.

DATE: 10/24/12
DRAWING SCALE: 1"=10'

REF. NO. E-4
SHEET 24 OF 43



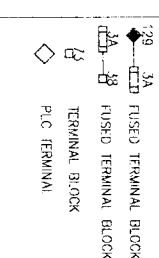
DATE: NOVEMBER 13, 2013



NOTES:

1. ALL VALUES FULL CLOSE.
2. GSE COMPONENTS SHOWN HERE ARE TWO EXISTING DISTRICT COSTS AND TWO FUTURE COSTS. MATCH SIGNAL SPLITTERS & GSE SELECTOR SWITCH POLES TO DISTRICTS ANTICIPATED DURING FUTURE COSTS. PRIME FOR FUTURE TO THE FOLLOWS EXTENT POSSIBLE.
3. ALL HEAT RACE TAPE IS TO BE 150 DEGREE. MAY MAINTAIN, CONDUCTOR TO PROVIDE, VALVE & TRANSFACITOR INSULATION, BOX, OR INSULATION BLANKETS IN A FASHION TO ALLOW EASE OF OPERATION AND CAUTIONARY, LONG TERM WEATHERPROOF, DURABILITY W/ FREEZE PROTECTION WITHOUT OVERHEATING.

LEGEND



DATE	DESCRIPTION	AMOUNT	APPROVED
1			
2			
3			
4			

BROWN & GAY
ENGINEERS, INC.

Brown & Gay Engineers, Inc.
10777 Westheimer, Suite 400, Houston, TX 77042
Tel. 281-558-4700 Fax: 281-558-9701
— Civil Engineers and Surveyors —

Brymcon, Inc.
Electrical Engineering
TYPE Registration No. F-375
8320 Arline Road
Beaumont, TX 77706 (409) 366-0966

CONTROL DIAGRAM
SHEET 9

† SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF
ISSUANCE

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

01/22/10
STANT & JONES
7/22/10
7/22/10

1247:5
11-21-10
1247:5
11-21-10

[illegible]

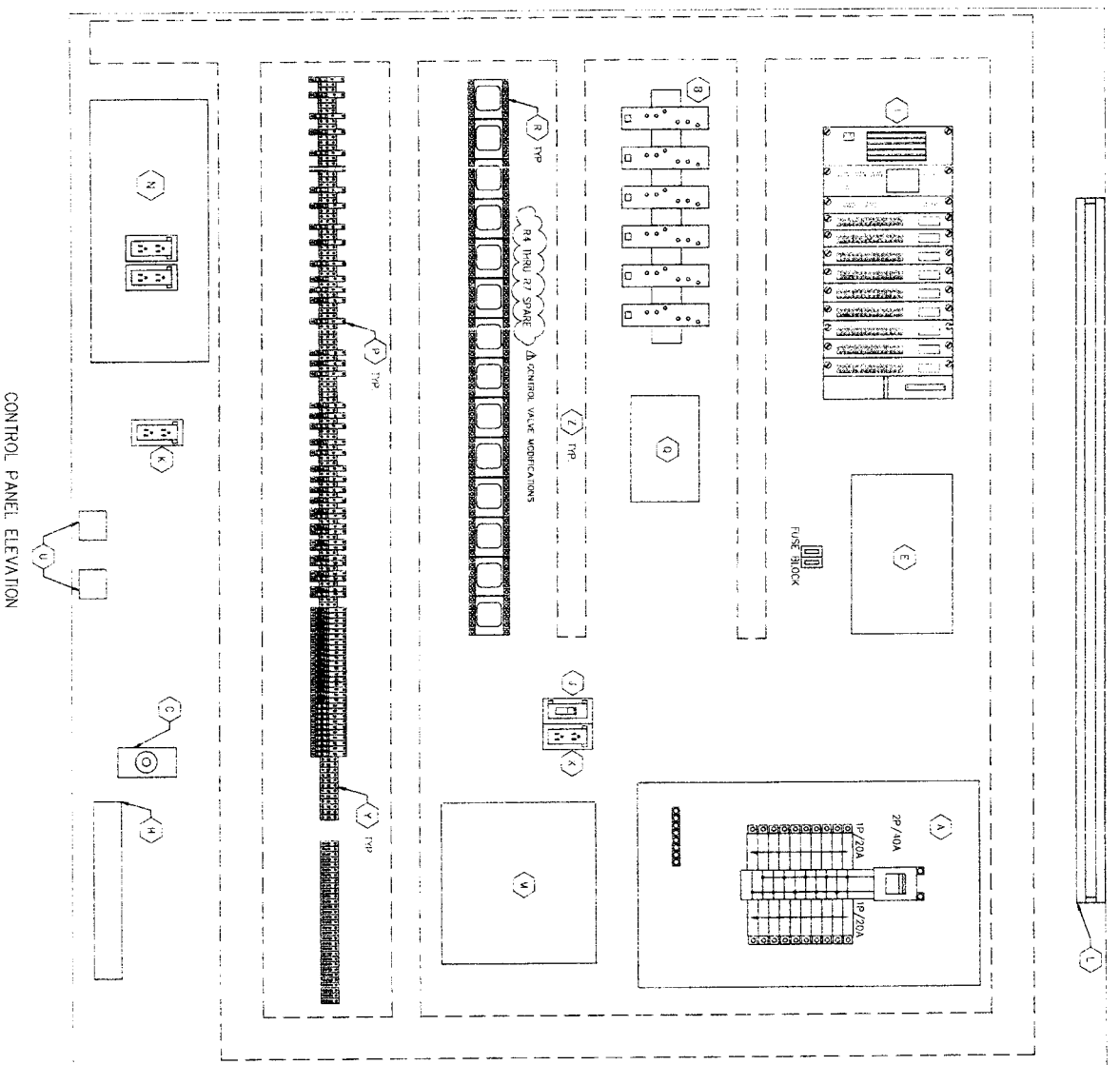
FOR CITY OF LOS ANGELES USE ONLY

DRAWING SCALE

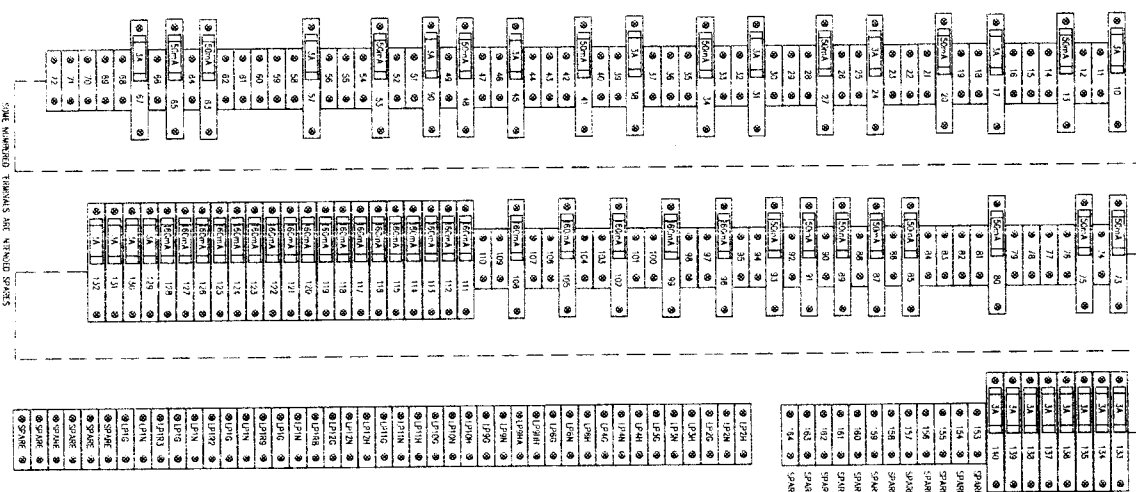
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CITY ENGINE NUMBER

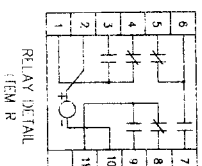
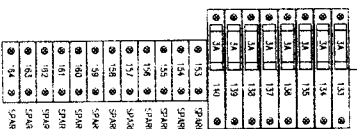
45



CONTROL PANEL ELEVATION

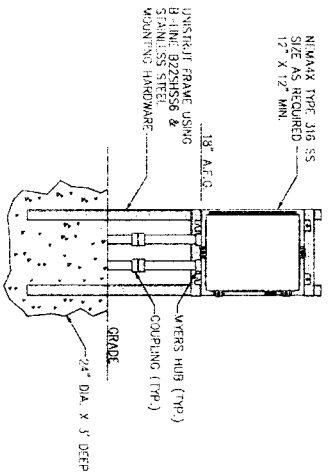


CONTROL PANEL TERMINAL STRIP ENLARGED VIEW



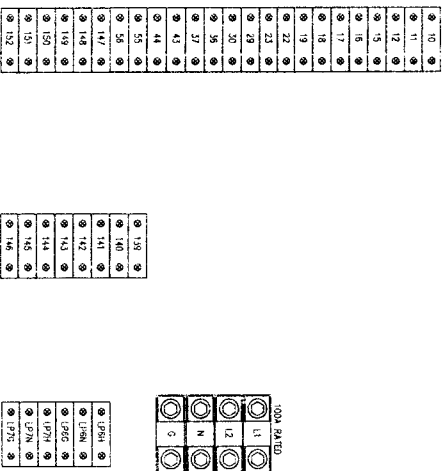
RELAT. HUM. R.

NOTES:
1. SEE SHEET E41 FOR EQUIPMENT SCHEDULE



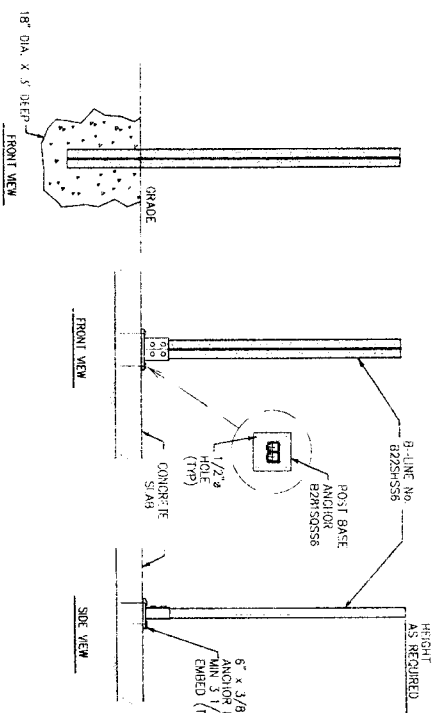
DISTRICT CONNECTION JUNCTION BOX DETAIL

DETAIL 1



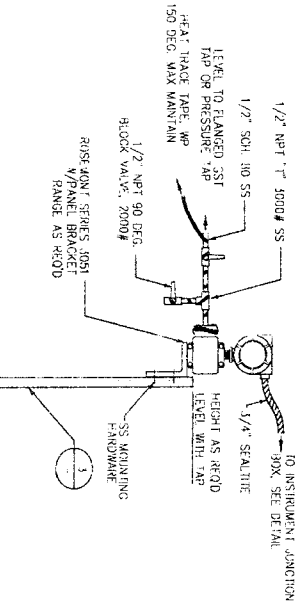
ANALOG JUNCTION BOX CONTROL JUNCTION BOX 120V JUNCTION BOX

DETAIL 2



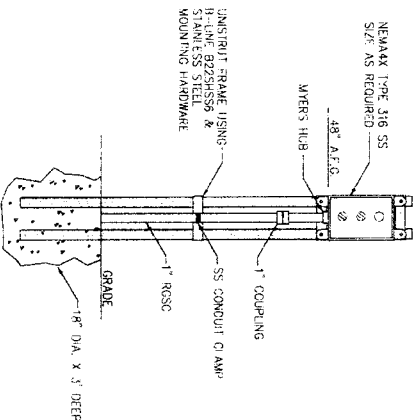
ON-SLAB INSTALLATION

DETAIL 3



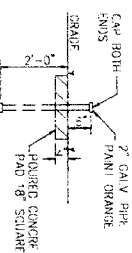
LIQUID LEVEL/PRESSURE/DIFFERENTIAL TRANSMITTER INSTALLATION DETAIL

DETAIL 4



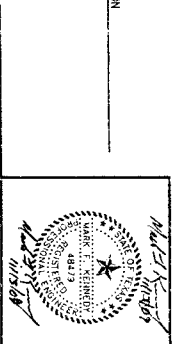
NFBWA UTILIZATION CONTROL PANEL

DETAIL 5



DUCTBANK MARKER DETAIL

DETAIL 6



Brown & Day Engineers, Inc.
10777 Westheimer, Suite 400 Houston, TX 77042
(713) 465-1000
Fax: (713) 465-1001
Civil Engineering and Surveyors
MEMBER: NCEM

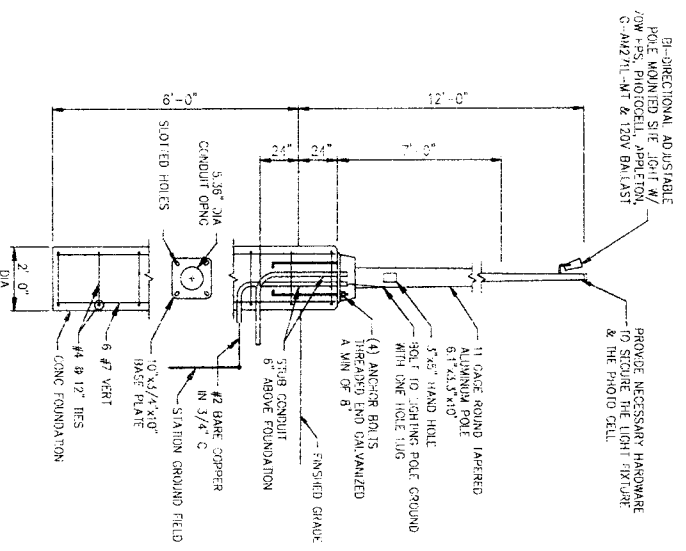
Brymcon, Inc.
Electrical Engineering
10000 West Loop, Suite 100 Houston, TX 77042
(281) 996-1000
Fax: (281) 996-1001

ELECTRICAL
DETAILS SHEET 1

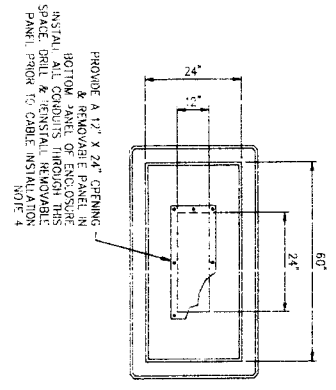


CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING
1000 West Loop, Suite 100 Houston, TX 77042
(713) 465-1000
Fax: (713) 465-1001

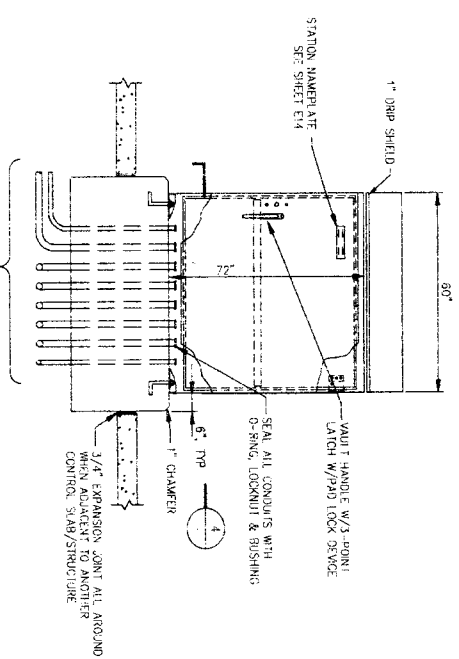
DATE: NOVEMBER 10, 2009	REF. NO. E16	5/11/10
PROJECT: 36 OF 43	DATE: 11/10/09	BY: [Signature]



TYPICAL YARD LIGHT
DETAIL 1

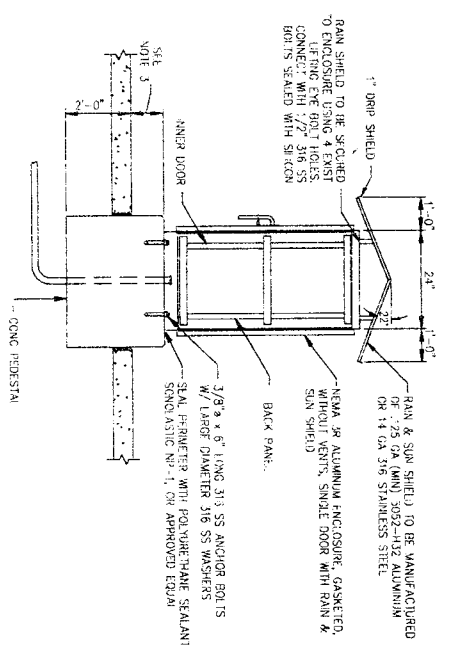


SECTION 4



DETAIL 2

CONTROL CABINET ENCLOSURE & FOUNDATION



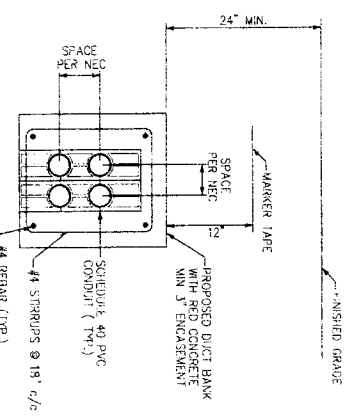
DETAIL 3

NOTES:

1. SEE SHEET 1.1.4 & 1.1.5 FOR CONTROL PANEL EQUIPMENT LOCATION AND SCHEDULE.
2. UNLESS OTHERWISE INDICATED, ALL POWERS WITHOUT PANEL IDENTIFICATION ARE LOCATED AT THE CONTROL PANEL.
3. TOP OF PROPOSED DUCT BANK TO BE A MINIMUM OF 6\"/>

TYPICAL DUCT BANK CONSTRUCTION

DETAIL 5



10/27/2017 10:00:00 AM 11/1/2017

REF. NO. 17

37 of 43

16964

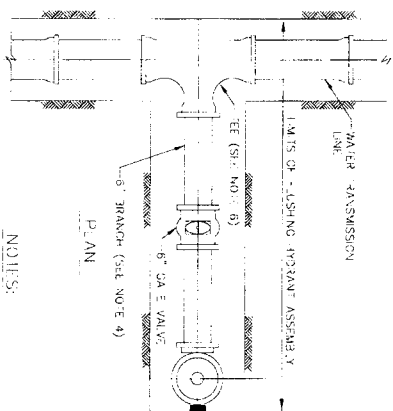
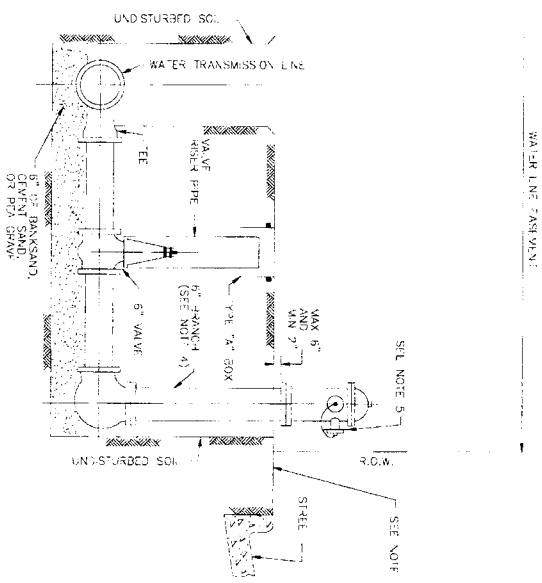


CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

Brymcon, Inc.
Electrical Engineering

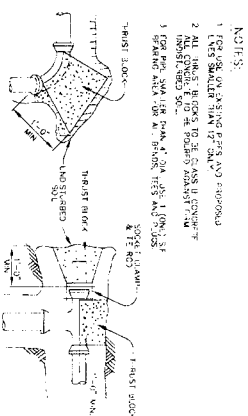
Brown & Gay Engineers, Inc.
10777 Westheimer, Suite 400 Houston, TX 77042
Tel: 281-558-9700 Fax: 281-558-9701
City engineers and surveyors



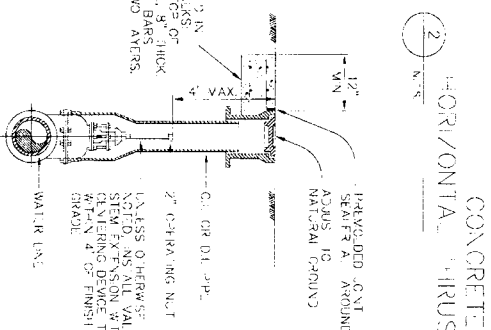


- [illegible]

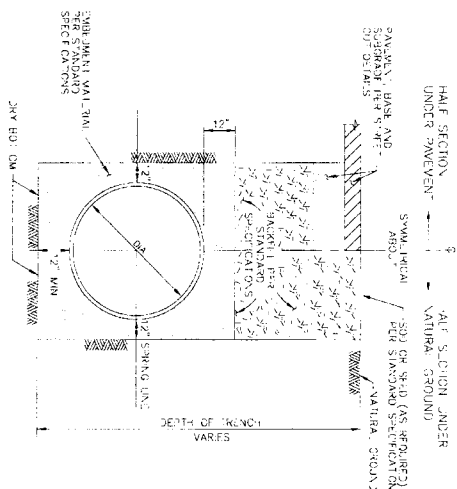
STANDARD FLUSHING IRRIGANT ASSEMBLY



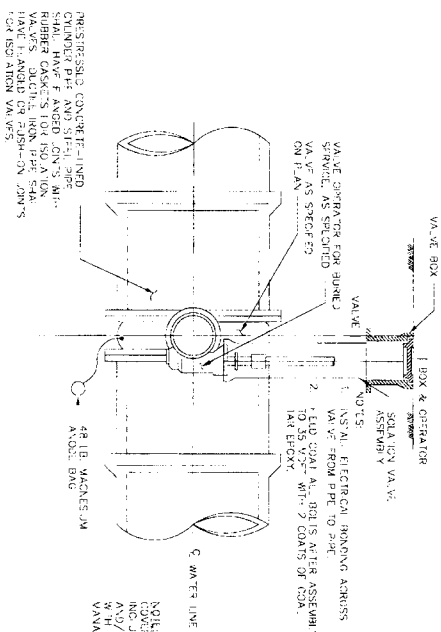
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22°/27°	45°/55°/65°	22°/27°	45°/55°/65°
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47	47	47	47
48	48	48	48
49	49	49	49
50	50	50	50
51	51	51	51
52	52	52	52
53	53	53	53
54	54	54	54
55	55	55	55
56	56	56	56
57	57	57	57
58	58	58	58
59	59	59	59
60	60	60	60
61	61	61	61
62	62	62	62
63	63	63	63
64	64	64	64
65	65	65	65
66	66	66	66
67	67	67	67
68	68	68	68
69	69	69	69
70	70	70	70
71	71	71	71
72	72	72	72
73	73	73	73
74	74	74	74
75	75	75	75
76	76	76	76
77	77	77	77
78	78	78	78
79	79	79	79
80	80	80	80
81	81	81	81
82	82	82	82
83	83	83	83
84	84	84	84
85	85	85	85
86	86	86	86
87	87	87	87
88	88	88	88
89	89	89	89
90	90	90	90



VALVE BOX DELTA
A.T.S.



WATER DISTRIBUTION IN BEDDING
AND BACKFILL FOR OPEN CUT TRENCHES
N.T.S.



5 SOLATION VALVE ASSEMBLY
(FOR WATER LINES 24-INCHES IN DIAMETER AND SMALLER)

NO.	DATE	REVISION	APPROVED
1			
2			
3			
4			

JT JONES & CARTER, Inc.
ENGINEERS • PLANNERS • SURVEYORS
Fixed Point of Professional Engineers Registration No. 6-4-108
6335 Gaudin Dr., Suite 100 Houston, Texas 77061 (713) 277-5533

STANDARD WITH LINE DETAILS

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

Karen

Mr. E. Grand - 12-1-10

STORM WATER QUALITY

1.21.10

13. 2. 2015

FOR CITY OF LOS ANGELES CAL

Age Group	1980	1990	2000	2010	2020
0-14	15.0	14.0	13.0	12.0	11.0
15-24	12.0	11.0	10.0	9.0	8.0
25-34	10.0	9.0	8.0	7.0	6.0
35-44	8.0	7.0	6.0	5.0	4.0
45-54	6.0	5.0	4.0	3.0	2.0
55-64	4.0	3.0	2.0	1.0	0.0
65-74	2.0	3.0	4.0	5.0	6.0
75+	1.0	2.0	3.0	4.0	5.0

STUDIES AND EXPERISE

DRAWING SCALE:

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED
DATE 11-20-2001 BY 60322 UCBAW

13034

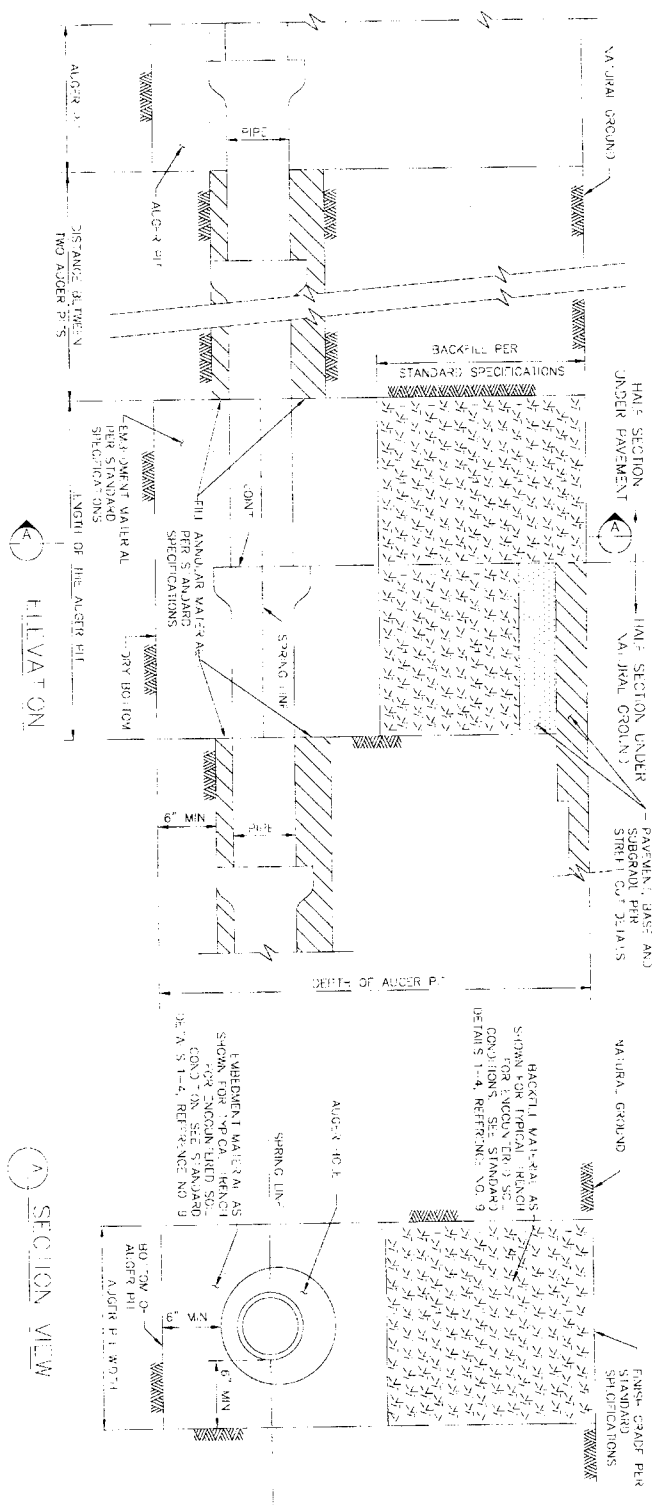
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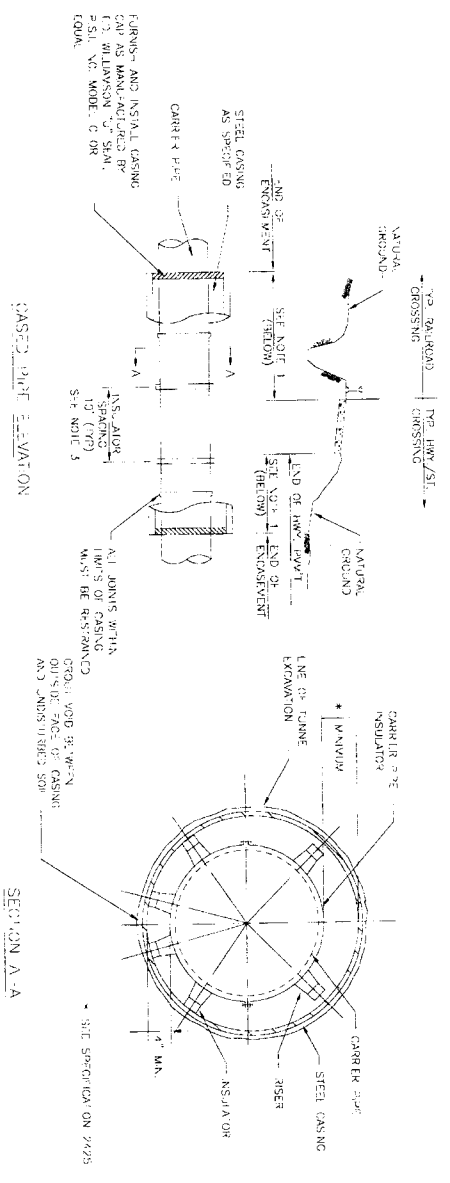
SECTION 1.00

CC-4

Number of hauls	<i>P. lineatus</i> (%)	<i>P. setiferus</i> (%)
1	100	0
2	80	20
3	60	40
4	40	60
5	20	80
6	10	90
7	10	90
8	10	90
9	10	90
10	10	90



BIDDING AND BACKFILL
AUGER PIT & AUGER TOLERANCE



NOTES:

1. LENGTH OF AUGER PIT SHALL BE AS SHOWN ON THE PLAN & VERTICAL DIMENSIONS.
2. THE CASING SHALL BE IN OPEN CUT TRENCH OR BORE.
3. THE CASING SHALL BE AS SHOWN ON THE PLAN & VERTICAL DIMENSIONS.
4. PROVIDE CATWALK PROTECTION FOR CASING.

CASING DETAIL

FOR WATER MAINS 18\"/>

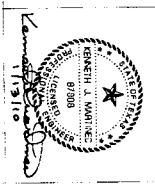


TRENCHLESS CONSTRUCTION
DETAILS

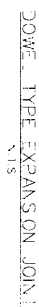
FBC MUD No. 41 CONNECTION

JC JONES & CARTER, INC.

1119110



DATE: 01/11/10	
DRAWN: 01/11/10	
CHECKED: 01/11/10	
APPROVED: 01/11/10	
PROJECT: 1119110	
SHEET: 40 OF 43	

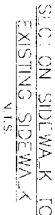
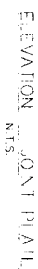


SAMPLE NO.	DOWEL LENGTH (IN.)	SPACING (IN.)	
		1	2
1	1 1/2	12	12
2	1 1/2	12	12
3	1 1/2	12	12
4	1 1/2	12	12
5	1 1/2	12	12
6	1 1/2	12	12
7	1 1/2	12	12

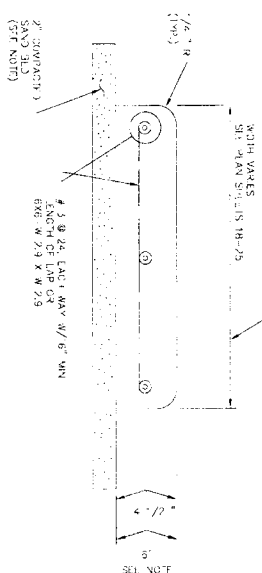
1. STEEL TO MEET ASTM STANDARD SPECIFICATIONS FOR CONCRETE REINFORCING BARS.

3. GENTLE & DOWD: HORIZONTAL ON JOINT.

4 CENTER DOME, VERTICAL, AS NOTED TO MAIN "A 2" MIN. COVER.

[illegible]

CONFIDENTIAL



NO. 1
6" REINFORCED CONCRETE SLOPE
DRAIN, DRIVEWAY OPEN W/OS ONLY
USF # 5 @ 1', EACH WAY 16" MIN. AP. LENGTH
CR # 4 @ 20" EACH WAY 22" MIN. AP. LENGTH
POLYOL 6" STABILIZED SUBGRADE IN
PAVE-WAY CUTTING.

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

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

MASS
Dept of Socy Hlth
10
STREET & PARADE

IN43-C

7-10-68
J. J. J.
SIC 20
FACULTY

LE NO:

FOR CITY OF HOUSTON USE ONLY

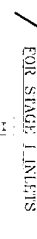
1000

07-01-06

WATER

Sheet
No. 42 of 43

5/17/16



43 of 43

