REVIEW BY FORT BEND COUNTY COMMISSIONERS COURT

On this_	27	day of	APRIL	,	2010	, before the Fort Bend
Commiss	ioners Co	urt cam	e on to be	heard and	reviewed	l the accompanying notice
of <u>CRAVE</u>	NS SERV	ICES, IN				
Job Locat	ion GAINE	S RD, ELDF	IDGE RD, SUC	GARLAND HOV	VELL, SUGAR	LAND BLOSSOM, KEEGANS BAYOU
Dated 0	4/16/10	BOND	NO <u>.02402</u>	2518	Per	rmit No. <u>83748</u>
						ct to, "A Revised Order
						Repair of Buried Cables,
Conduits	, and Pole	e Lines, l	n, Under,	Across or A	Along Roa	ds, Streets, Highways, and
Drainage	Ditches i	in Fort E	end Coun	ty, Texas, I	Jnder the	Jurisdiction of the
Commiss	ioners Co	ourt of F	ort Bend C	County, Tex	kas," as pa	ssed by the Commissioners
Court of l	Fort Bend	l County	, Texas, da	ite the <u>3rd</u>	day of <u>Au</u> g	gust, 1987, recorded in
						s Court of Fort Bend County,
						vith Article 1436a, Vernon's
Texas Civ	il Statue:	s. Upon l	Motion of	Commissio	oner <u>//</u> h	seconded, seconded
by Comm	issioner_	Mor	rison	, duly p	out and ca	rried, it is ORDERED,
						urpose is hereby
acknowle	edged by	the Com	missioner	rs Court of	Fort Bend	l County, Texas, and that said
notice be	placed o	n recor	d accordin	g to the re	gulation o	order thereof.
Notes:						
						nust be kept on the job site
				es ground:	s for job sl	hutdown.
2. W			required			
				f construct		
				_		y for final inspection
M	ail notice	s to:		dministrat		
				d County E	ngineerin	g
			P.O. Box 1			
				rg, Texas 7	7471	
	_	_	281-633-		1 . C	
	_	_	s one (1) y	ear from o	date of per	rmit if construction has not
co	mmence	d)	. /			
_	h/		//.		D	1 to Commission on Commi
By	/1 Yd	AN	u Aflge	m		d to Commissioners Court
Cou	inty Engir	veer	/ / /		and appr	
_	ν					d in Volume 4-22-10
Ву			- /3/		Minutes	of Commissioners Court.
Dra	unage Dis	strict En	gineer/Ma	ınager	Clark of	Commission one Court
						Commissioners Court
					-	rery From
(REVISED	5/30/08)				Depu	uty

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

BOND NO. 024022518

THE	STATE	OF'	TEXAS	

KNOW ALL MEN BY THESE PRESENTS:

COUNTY OF FORT BEND

Cravens Services, Inc. whose address is 11603 Windfern Rd., Suite C. Houston, TX 7706 Texas, hereinafter called the Principal, 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 (*) Richard Maxey officer residing in the State of Texas, authorized to accept service in all suits and actions brought within said State is $\binom{x}{x}$ and whose address is 12750 Merit Dr., Suite 710, Dallas, TX 75251 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 $\underline{\hspace{1cm}}(*)$ Dollars (\$_205.632.00) 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. (*)Two Hundred Five Thousand Six Hundred Thirty-Two & 00/100

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 12th day of April , 20 10.

Cravens Services, Inc.

<u>Liberty Mutual Insurance Company</u>

SURETY

Debbie L. Welsh, Attorney-in-Fact

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of Califor	nia		
County ofM	ARIN	× .	
personally app on the basis of name(s) is/are acknowledged his/her/their au signature(s) on	eared <u>Debbie</u> satisfactory evide subscribed to the to me that he/she thorized capacity the instrument the	Donna J. Frowd L. Welsh who ence to be the perso within instrument a /they.executed the s r(ies), and that by his ne person(s), or the ted, executed the in	o proved to me on(s) whose and same in s/her/ŧheir entity upon
California that		JURY under the law agraph is true and c	
(seal)	DONNA J. FROWD COMM. #1866131 NOTARY PUBLIC-CALIFORNIA MARIN COUNTY V. COMM. Frydras Ordana 22 2013	ture <u>Mnv</u>	From

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.

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

, each individually if there be more than one named, its true and lawful attorney-behalf as surety and as its act and deed, any and all undertakings, bonds, recognized the surety of th	gnizances and other surety obligations in the penal sum not exceeding DOLLARS (\$ 75,000,000.00***** each, and the
execution of such undertakings, bonds, recognizances and other surety obligated Company as if they had been duly signed by the president and attested by the se	ations, in pursuance of these presents, shall be as binding upon the cretary of the Company in their own proper persons.
That this power is made and executed pursuant to and by authority of the following	g By-law and Authorization:
chairman or the president may prescribe, shall appoint such attorneys execute, seal, acknowledge and deliver as surety any and all under attorneys-in-fact, subject to the limitations set forth in their respective	ndertakings. the chairman or the president, and subject to such limitations as the in-fact, as may be necessary to act in behalf of the Company to make, ertakings, bonds, recognizances and other surety obligations. Such powers of attorney, shall have full power to bind the Company by their the seal of the Company. When so executed such instruments shall be
By the following instrument the chairman or the president has authorized the office	er or other official named therein to appoint attorneys-in-fact:
Pursuant to Article XIII, Section 5 of the By-Laws, Garnet W. Elliott, authorized to appoint such attorneys-in-fact as may be necessary to a deliver as surety any and all undertakings, bonds, recognizances and continuous	Assistant Secretary of Liberty Mutual Insurance Company, is hereby act in behalf of the Company to make, execute, seal, acknowledge 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 a Liberty Mutual Insurance Company has been affixed thereto in Plymouth Meeting 2009	authorized officer or official of the Company and the corporate seal of pennsylvania this 15th day of October
	LIBERTY MUTUAL INSURANCE COMPANY
	By Count W. Clitt
COMMONWEALTH OF PENNSYLVANIA ss	Garnet W. Elliott, Assistant Secretary
COUNTY OF MONTGOMERY	
On this 15th day of October , 2009 , before me, a Notary Publ that he is an Assistant Secretary of Liberty Mutual Insurance Company; that he Power of Attorney and affixed the corporate seal of Liberty Mutual Insurance Seal of Liberty Mutual	e knows the seal of said corporation; and that he executed the above
IN TESTIMONY WHEREOF, Lhave hereunto subscribed my name and affixed n	ny notarial seal at Plymouth Meeting, Pennsylvania, on the day and year
COMMONWEALTH OF PENNSYLVANIA Notarial's Real Transport Patrialis Neal Notarial's Neal Notarial	The fitter
Plymouth Twp., Montgomery County My Commission Expires March 28, 2013	Teresa Pastella, Notary Public
CERTIFICATE WSYLVANIC Member, Pennsylvania Association of Notaries	
I, the undersigned, Assistant Secretary of Liberty Mutual Insurance Company, do is a full, true and correct copy, is in full force and effect on the date of this certification power of attorney is an Assistant Secretary specially authorized by the characteristic of the By-laws of Liberty Mutual Insurance Company.	ficate; and I do further certify that the officer or official who executed the
This certificate and the above power of attorney may be signed by facsimile following vote of the board of directors of Liberty Mutual Insurance Company at a	or mechanically reproduced signatures under and by authority of the ameeting duly called and held on the 12th day of March, 1980.
VOTED that the facsimile or mechanically reproduced signature of certified copy of any power of attorney issued by the company in conwith the same force and effect as though manually affixed.	any assistant secretary of the company, wherever appearing upon a nection with surety bonds, shall be valid and binding upon the company
IN TESTIMONY WHEREOF, I have hereunto subscribed my name and affixed the April	he corporate seal of the said company, thisday or
	By david / Lang David M. Carey, Assignant Secretary

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

County" a		duit, and/or Pole Line activity in Fort Bend been reviewed and the notice conforms to Court of Fort Bend County, Texas.
X	(1) Complete Application Form.	
		reet, and/or drainage ditch affected.
	X b. Vicinity map sho	·
	c. Plans and specif	_
	(2) Bond:	
	District Attorney,	pproval when applicable.
	Perpetual bond c	ırrently posted.
	No	
	Amount	
	X Performance bon	d submitted.
	No. <u>024022518</u>	TO TRACE D.
	Amount <u>\$205,63</u>	2.00
	Cashier's Check.	
	No	
	Amount	100
	(3) Verbal permission given for e	mergencies, to start construction
	before approved in Commissi	oner's Court.
	Precinct Engineer Acknowled	gment Date
	Precinct Commissioner Acknowledge	wledgment Date
	_ (4) Adam Ward	
	Drainage District Approval v	hen applicable

Johnny Ortega CEM/ Permit Administrator

04/16/2010

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

PERMIT No	S JOB NO.	r. No. 3				
BOND No. (02402251					
		\bigcap	- 6	^^~	T 10	
proposes to	e is hereby given that lay, construct, main ong roads, streets, fil	ntain and/or re	pair cable.	ပ်ပြေ - conduit and/o es in Fort Bend	r pole line	, in, under, follows:
	In, Under, o	or Across Road	s and/or Dre	inage Ditches		
Road or Ditch Name	: Distance & Direction : Nearest Inter	section :	Length of Crossing		of Construc acked: Driv	
raines Rd	1. of 012 Rich 2500 feat		70	<u>, X.</u>		. X
Eldridge Dr	Nofold Ric	t :	103	<u>, X , </u>		: X
Eldridge Dr L. Hwy 6.	1200 fet	rpwong 59	198	<u>: X : </u>		<u>, X</u>
		ig Roads and/o	r Drainage C	itches		
Road or Ditch Name		Direction From ntersection	: To :		: Distance	
Kreegans Bo		Bidnmond		ridgePKWY	. 3a7	/
	,00 +	#	*	1 15		
***	**************************************	C	:			****y839;436
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		General De	escription			
Cables, Condult Ditches in Fort County: Texas."	t to "A Revised Order ts, and/or Pole Lines, Bend County, Texas, " as passed by Comm ecorded to Volume 63	In, Under, Acros Under the Juri Issloners Court	s, or Along sdiction of I of Fort Bent	Roads, Streets, he Commission County Texas	Highways e ers Court o dated the	nd Drainage f Fort Bend ard day of
						end County.
Toxas.		ine in advance of	fetart of cone	Injetion and		end County,
Toxas.		urs in advance of construction is c				end County,
Tokas. Written notices i		construction is c Bend County Eng	omplete and			end County,
Texas. Written notices a Mail to: Pen P.O.	2) when mit Administrator/Fort	construction is c Bend County Eng , TX 77471. Ite grounds for jo	omplete and gineering ob shut down	ready for final (r		end County,
Texas. Written notices a Mail to: Pen P.O.	2) when mit Administrator/Fort Box 1449, Rosenberg	construction is c Bend County Eng , TX 77471. Ite grounds for jo	omplete and gineering	ready for final li		end County,
Written notices a Mail to: Pen P.O Violation of requ Does proj	2) when mit Administrator/Fort Box 1449, Rosenberg uirements shall constitu	construction is c Bend County Eng , TX 77471. Ite grounds for jo	omplete and gineering ob shut down	Augus	spection. Securice	end County,
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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

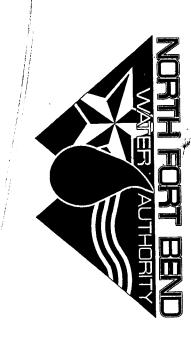
proposes to lay, across or along re	construct, maintain pads, streets, highwa	and/or repair cab ws and drainage di	le, condu tches in F	iit and <i>l</i> ort Ben	or pole id Count	line, in v. as fol	, unde lows:
	· · · · · · · · · · · · · · · · · · ·	ross Roads and/or					
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KEY MAP NOS 527 V. 528 S & T GIMS MAP NO 47530 & 4753b ZIP CODES 77478 AND 77083

VICINITY MAP

NORTH FORT BEND WATER AUTHORITY SEGMENT 1B

PROPOSED 48" WATER LINE IN CENTERPOINT EASEMENT FROM GAINES ROAD TO ELDRIDGE PARKWAY





LOCATION MAP

BOUNDARY

DIRECTORS

MELONY F. GAY, P.E. BRUCE FAY ROBERT DARDEN DAVID SPELL

PAT HEBERT PETER HOUGHTON ROBERT L PATTON

PRECINCI

(New Statewide Number Outside Houston 1-800-545-6005 ONE-CALL NOTIFICATION SYSTEM CALL BEFORE YOU DIG!!! (713) 223-4567

FORT BOND COUNTY ENGINÉES

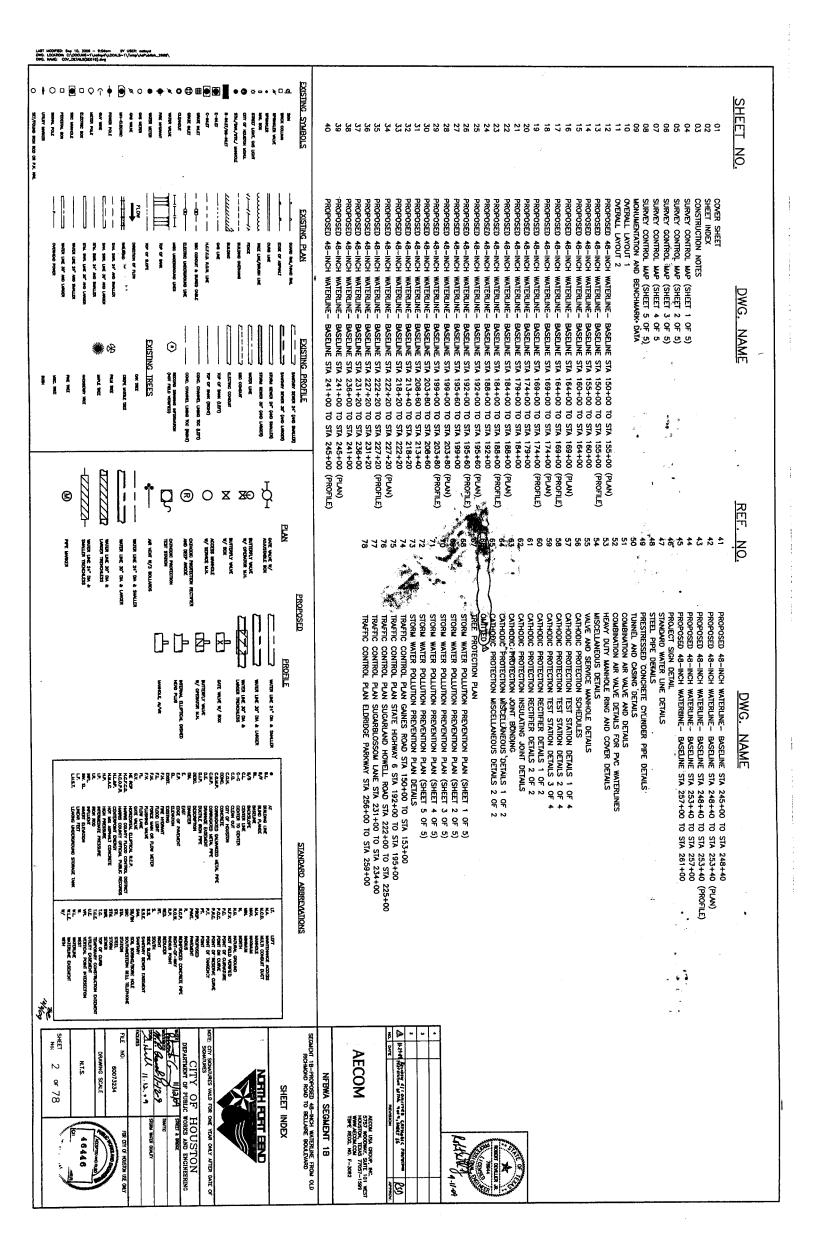
Contractor shalt notify the City of Houston Department of Public Works and Engineering, Engineering Construction Division (Telephone No. 832-395-4405) 48 hours before starting work on this project

Flood Insurance Rate Map Panel 820 & 840 of 1150 48C201C0820L & 48C201C0840L BFE Elevation: 72' to 78' I, <u>ROBERT DEVILLIER JR...</u> P.E., certify that this project is entirely located outside the area with 100-year flood

No known person wasemater work is involved ILMS NO: 09030591 LOG NO2009--0253

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WITH CREWARE AND/OR FLACE. CALL 1-800-344-8377 AT LDST 48 HOURS IN ADVANCE OF SECURING A FELD CHEST FOR BASILINE SLAWEY, HE SPECIFIC ON THE FROJECT LICONOM.

PLOT THE EXACT LOCATION OF THE SIC BURECO CHELL FACURES ON THE PLAN AND PROFILE SHEETS.

WARES COUNTY FLOOD CONTROL DISTRICT NOTES

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No. N.T.S. Ç 읶 78

SECHENT 18-PROPOSED 48-INCH WATERLINE FROM OLD RICHMOND ROAD TO BELLAIRE BOULEVARD CITY OF HOUSTON CITY SIGNATURES WALD FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES **AECOM** 60073234 CONSTRUCTION NOTES NFBWA SEGMENT 1B AECOM USA GROUP, INC.
5757 MOCOMAY, SUITE 101 WEST
HOUSTON, TEXAS 77057-1599
WWW.AECOM.COM F-3062
TBPE REDG, NO. F-3062 STORE WATER CHAPTER STREET & BREDGE *

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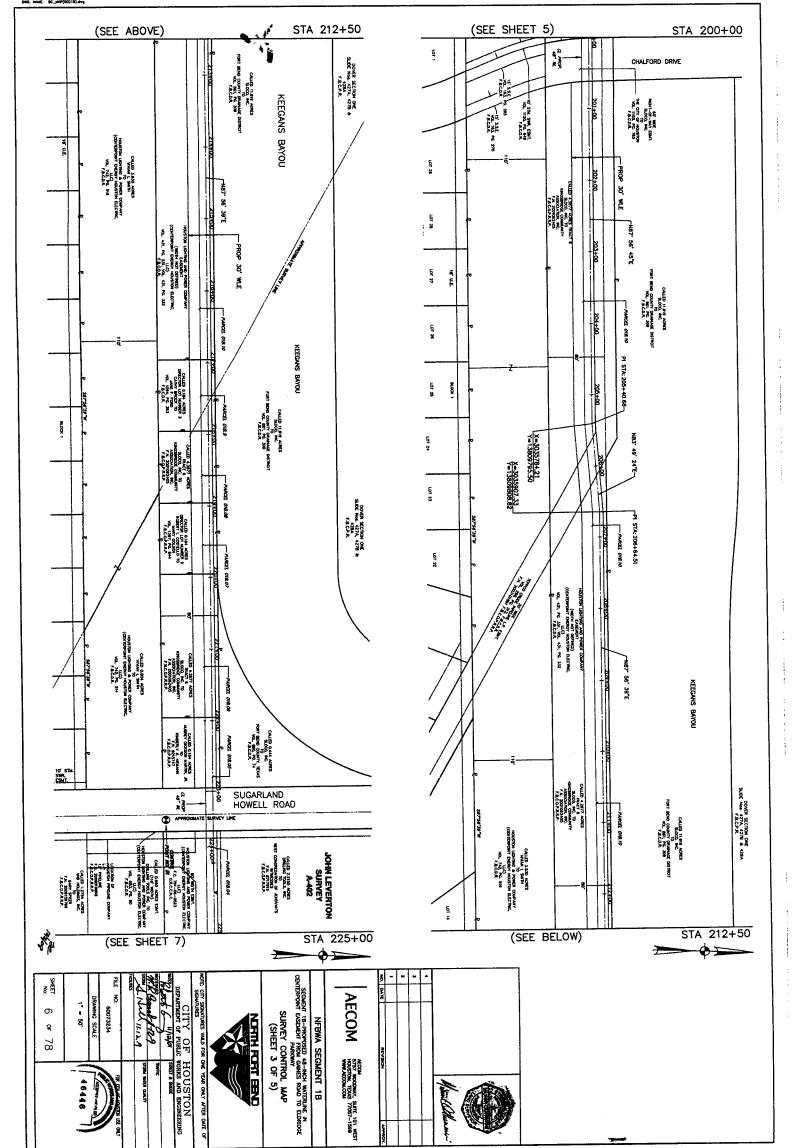
TO ARRANGE FOR LINES TO BE TURNED OFF OR MOVED. CALL CENTERPOINT AT 713-207-7777.

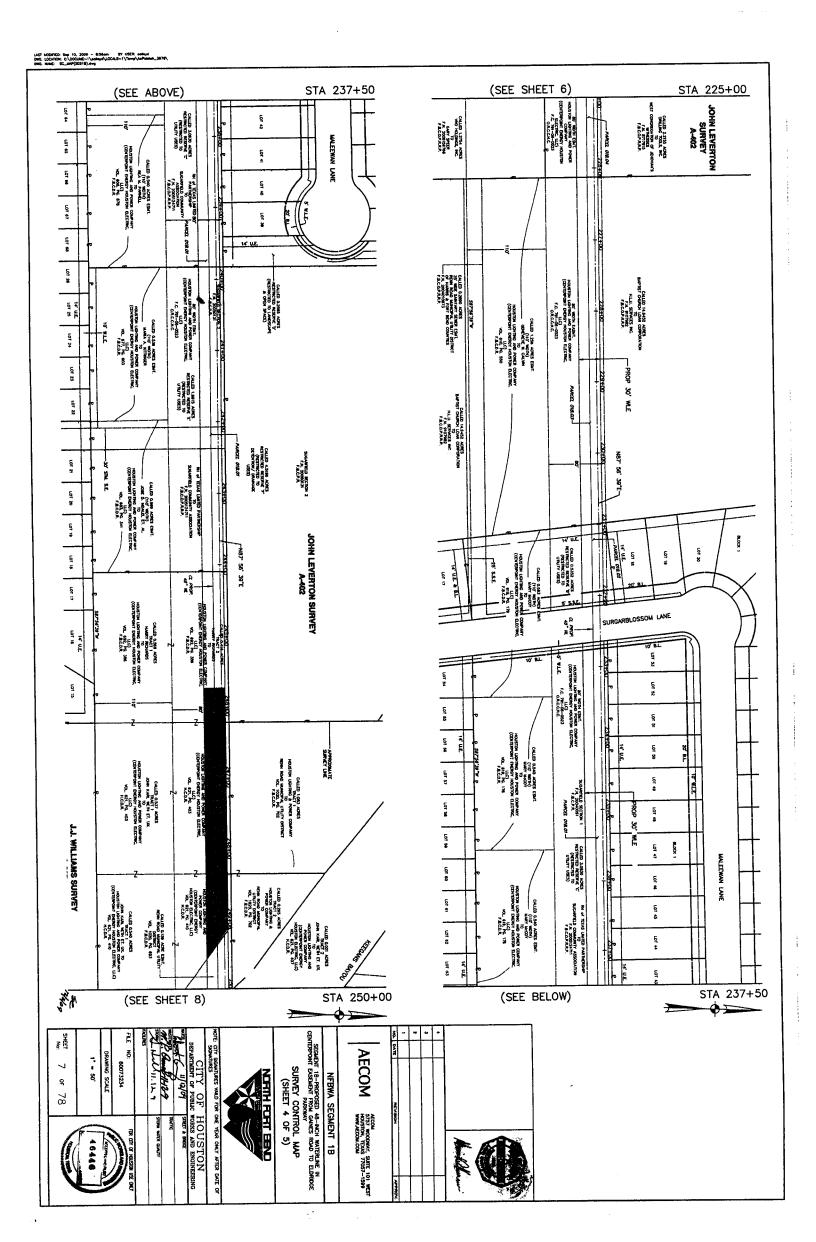
NOTICE:
AT LEAST 48 HOURS BEFORE EXCAVATING IN STREET RO, W. OR EASELIENTS CALL LONE STAR NOTIFISCATION CENTER, (713) 223-4587 OR 1-800-669-8344

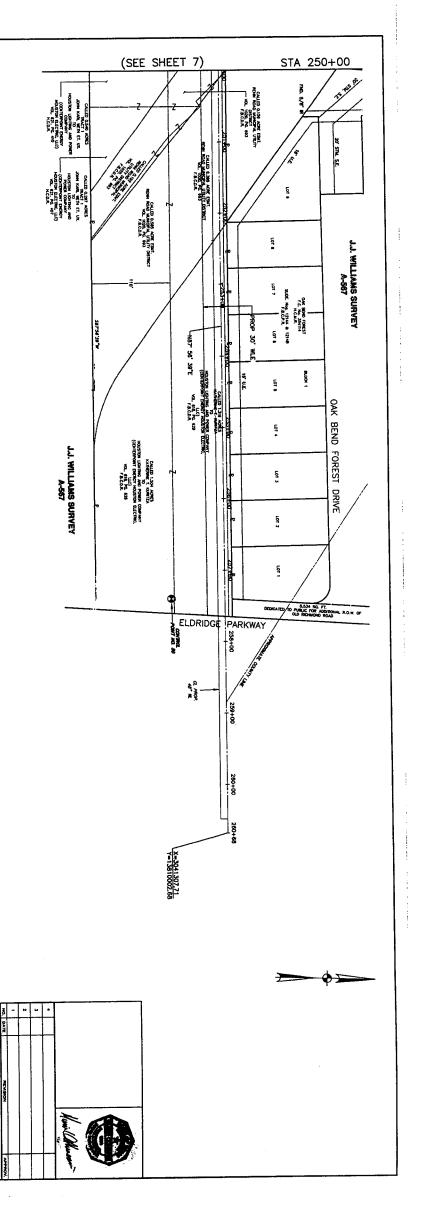
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PRIVATE UTILITY LINES SHOWN







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60073234 DRAWING SCALE NFBWA SEGMENT 1B

SECURDIT 1B-PROPOSED 48-MCH WITEFLUE N
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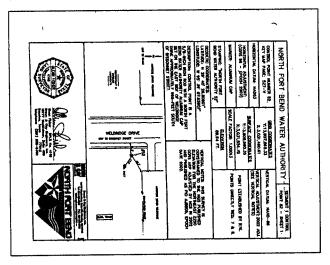
AECOM 5757 WOODWAY, SUITE 101 WEST HOUSTON, TEXAS 77057-1599 WWW.AECOM.COM

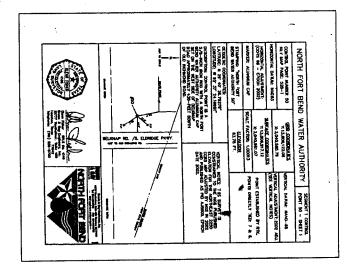
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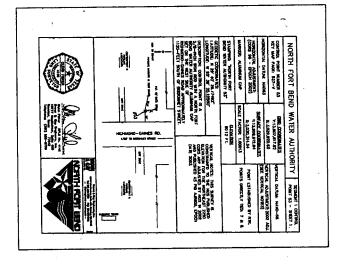
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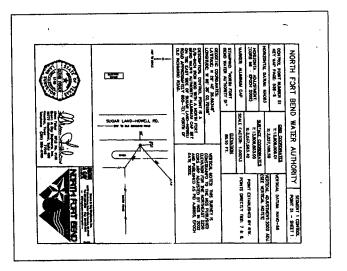
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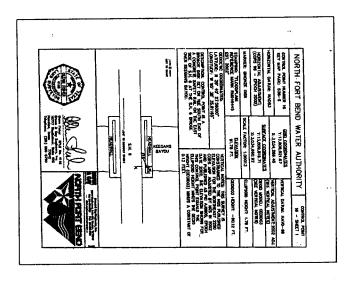
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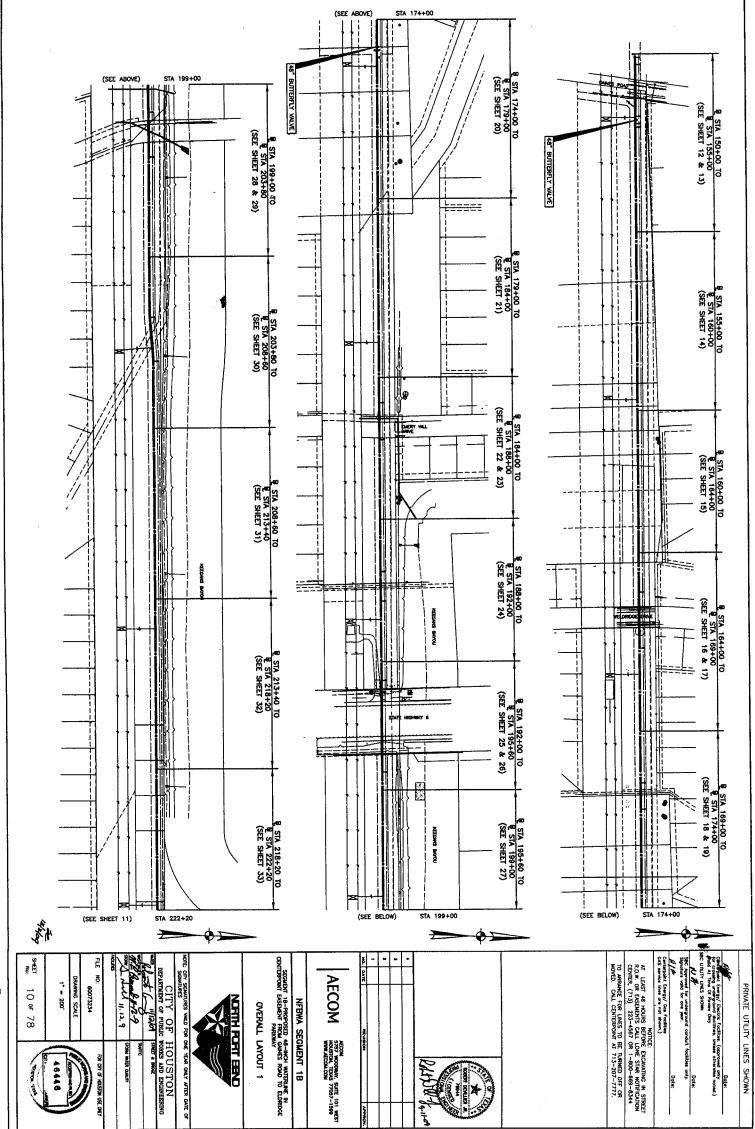


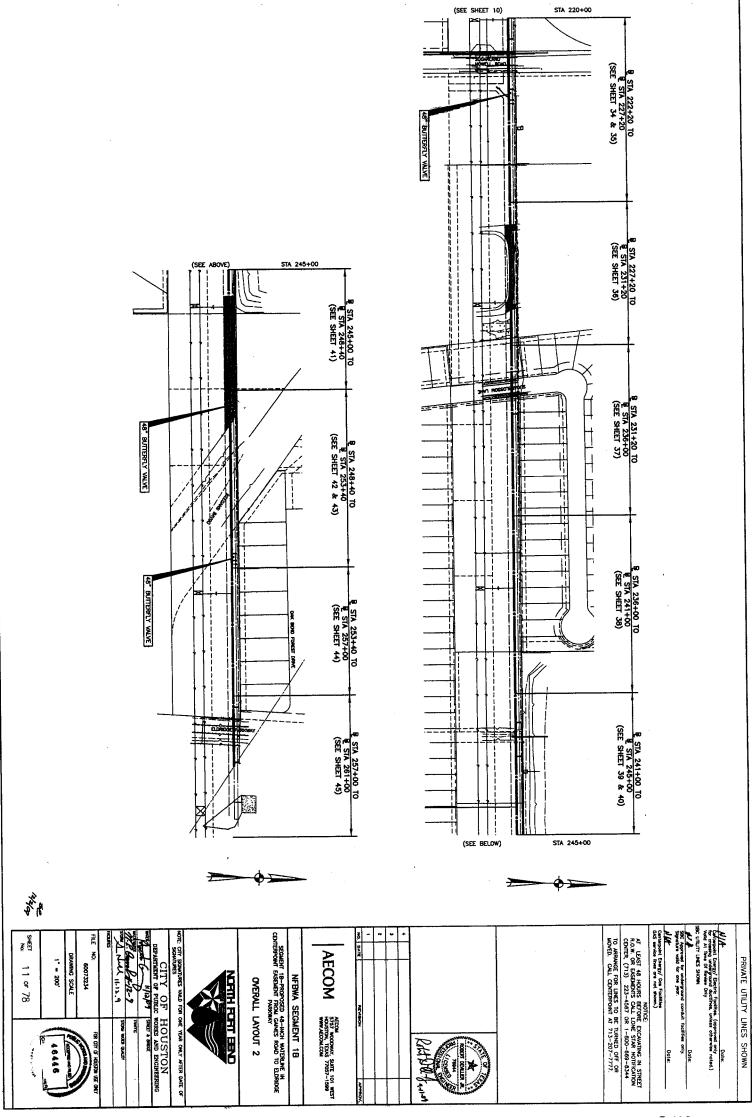


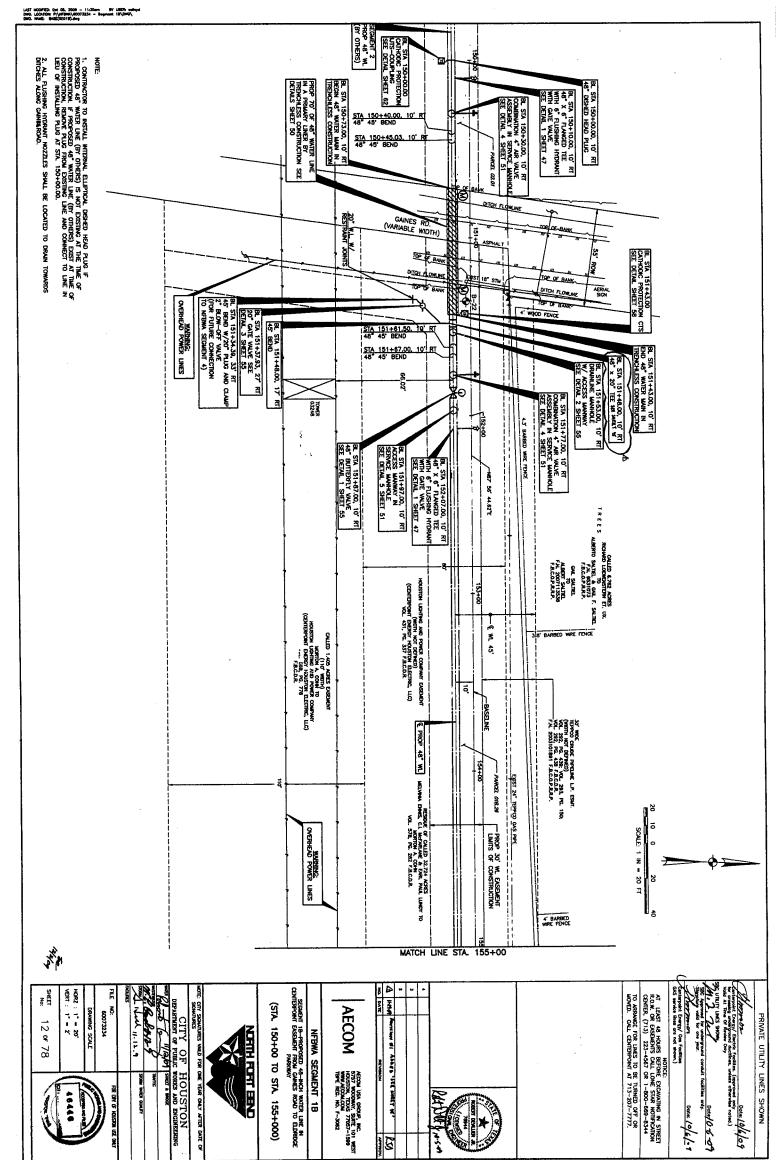


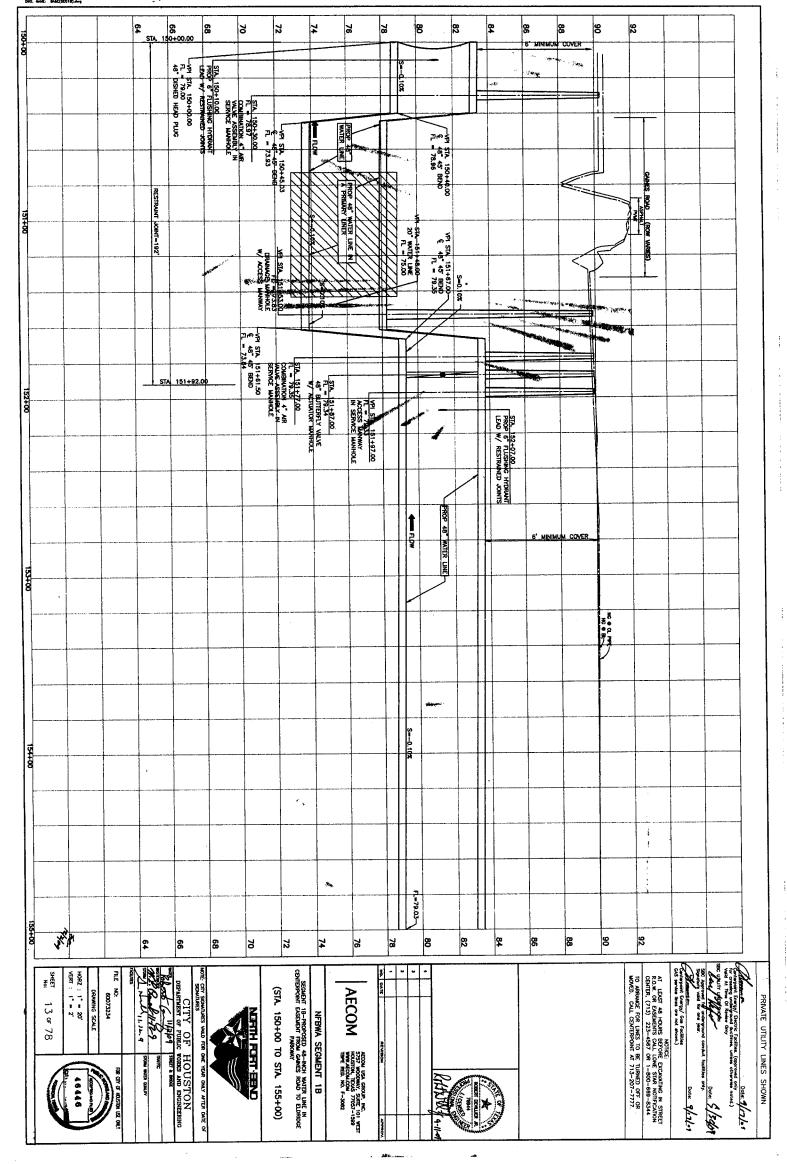
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PRIVATE UTILITY LINES SHOWN

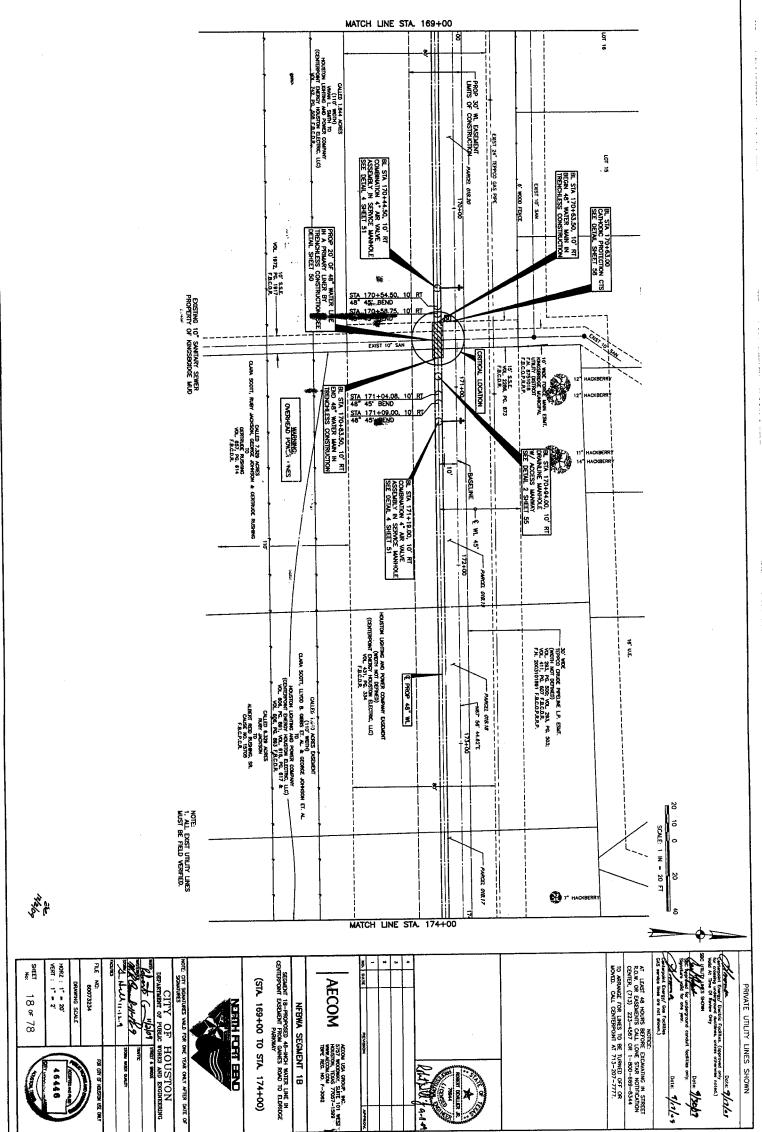
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HOUSTON, ITCAS 77057-1599
WWW.AEDOM.COM
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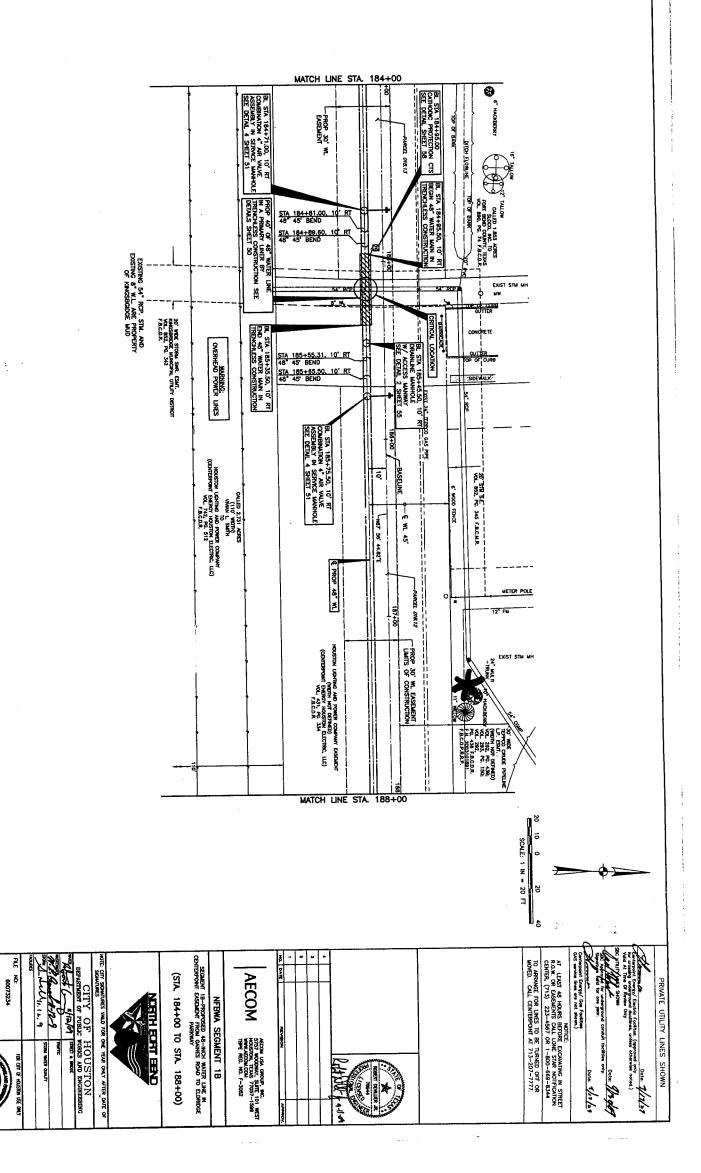
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PRIVATE UTILITY LINES SHOWN





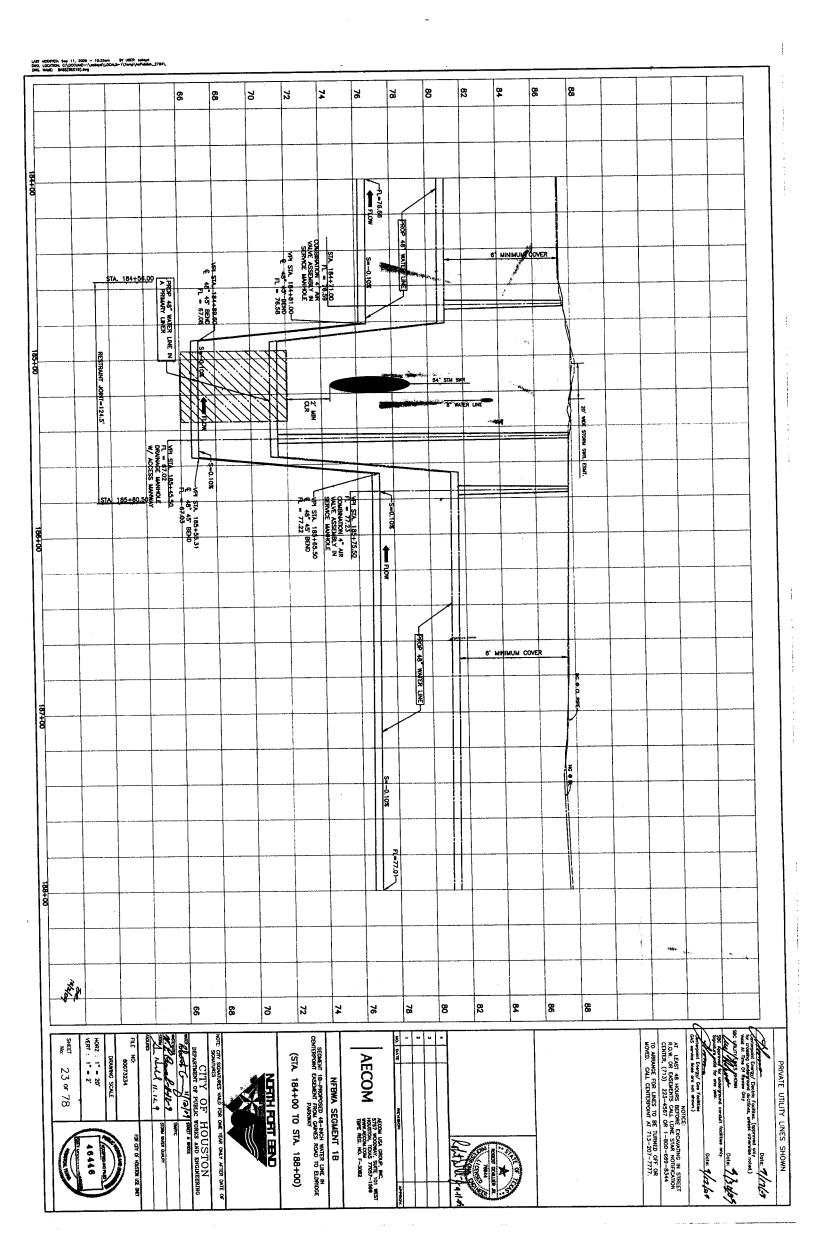
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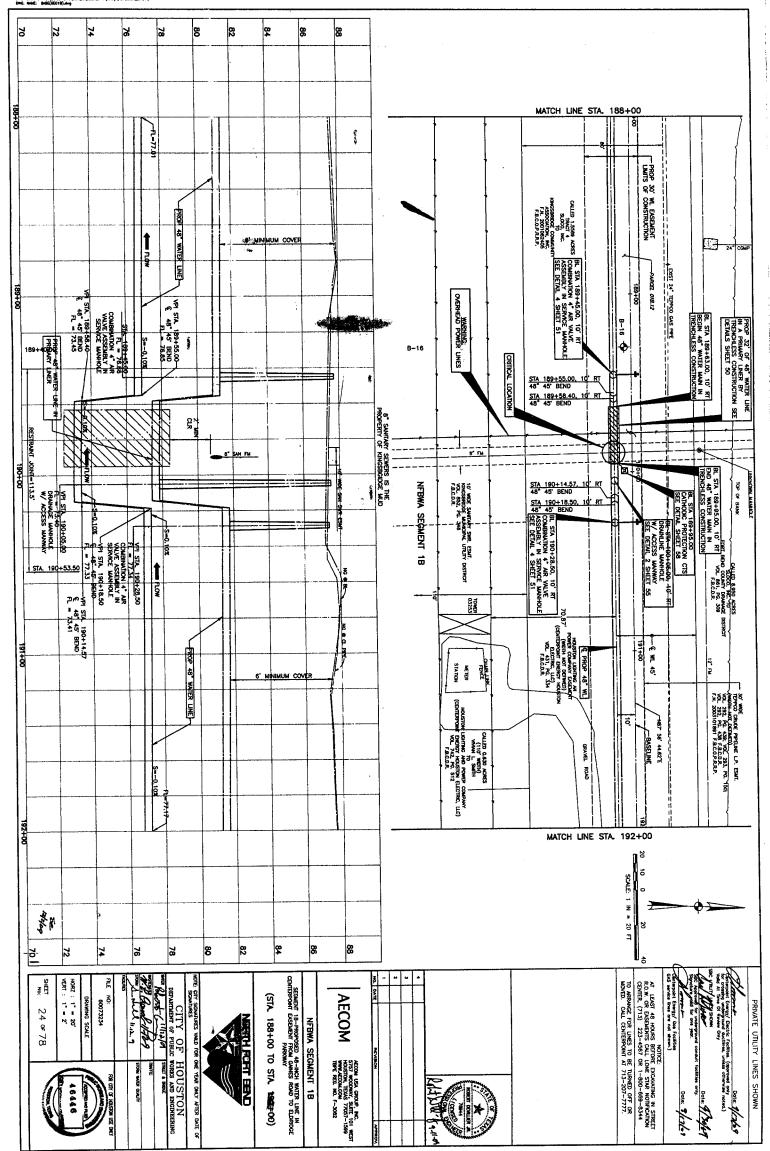
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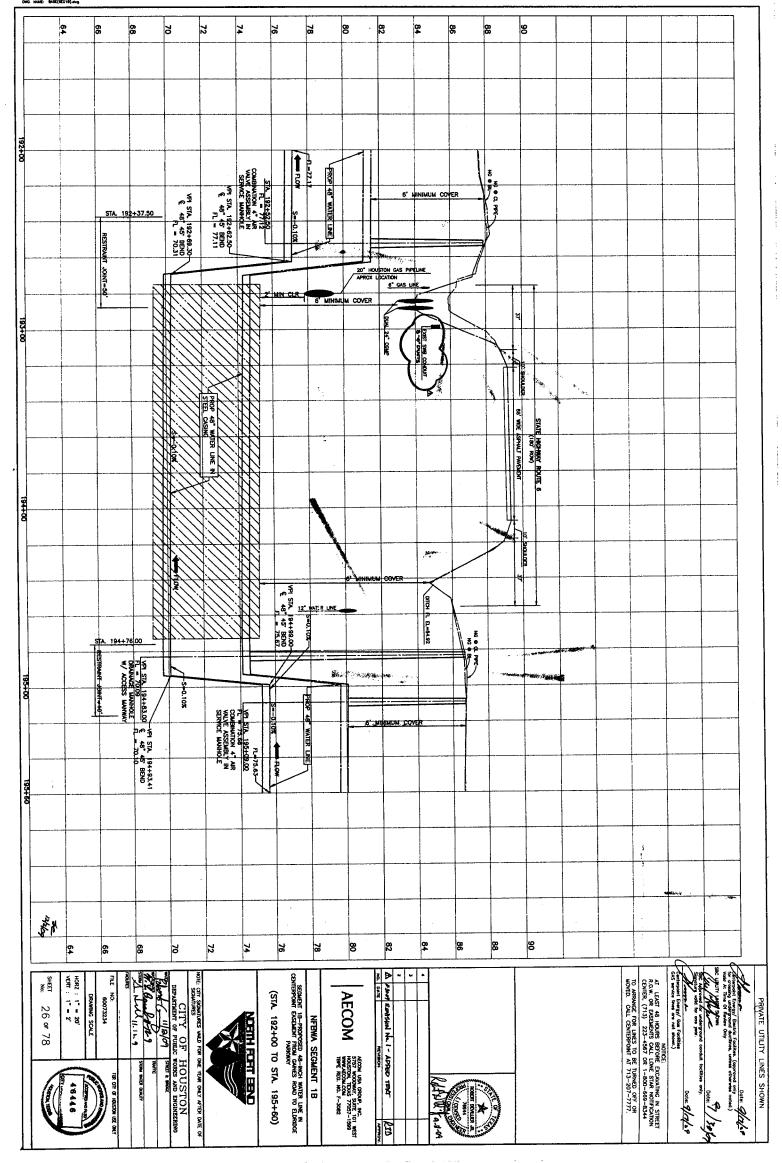
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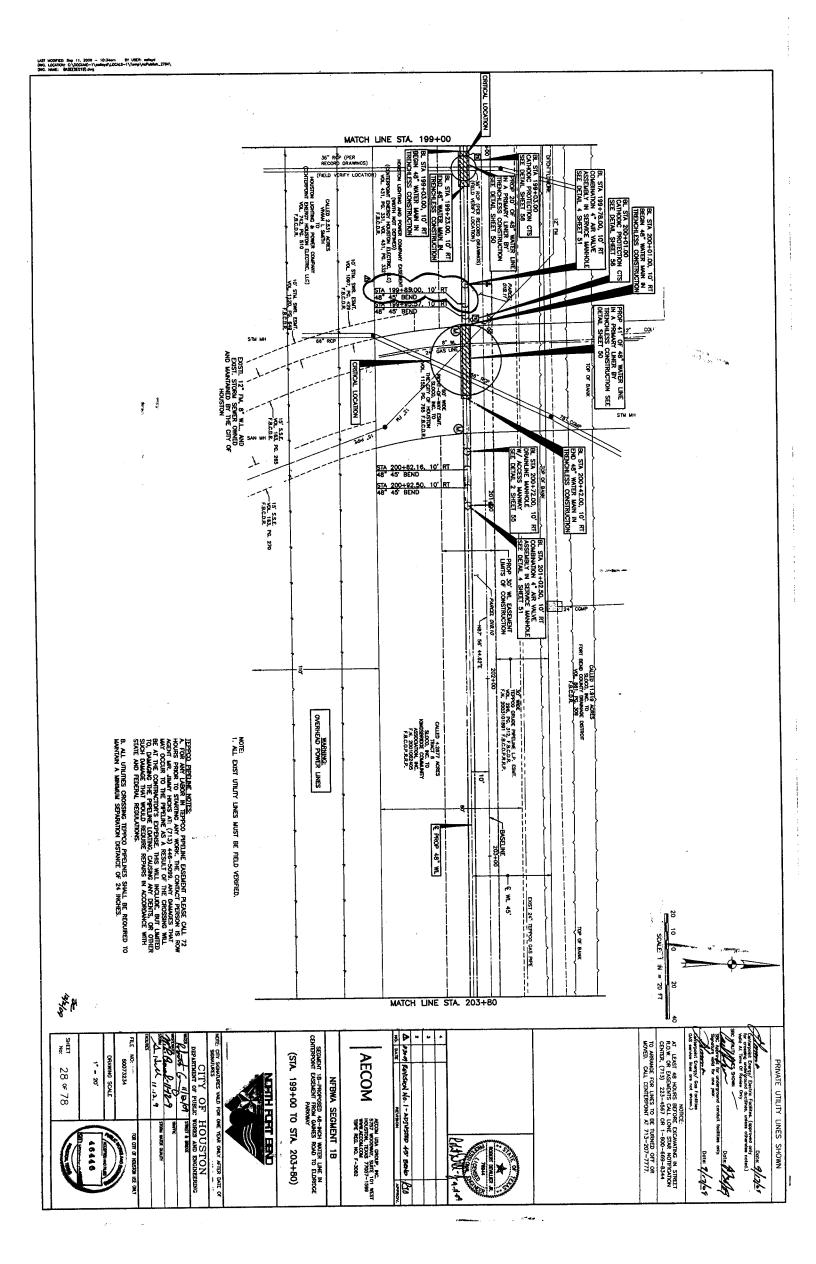
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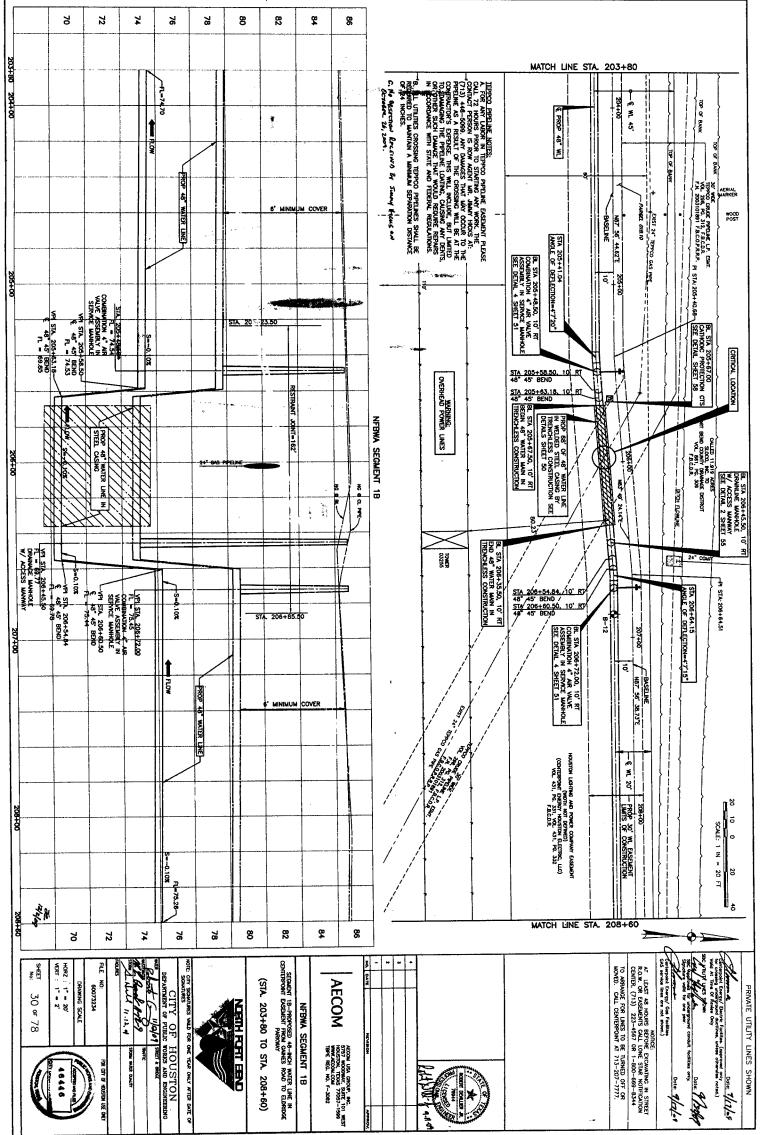


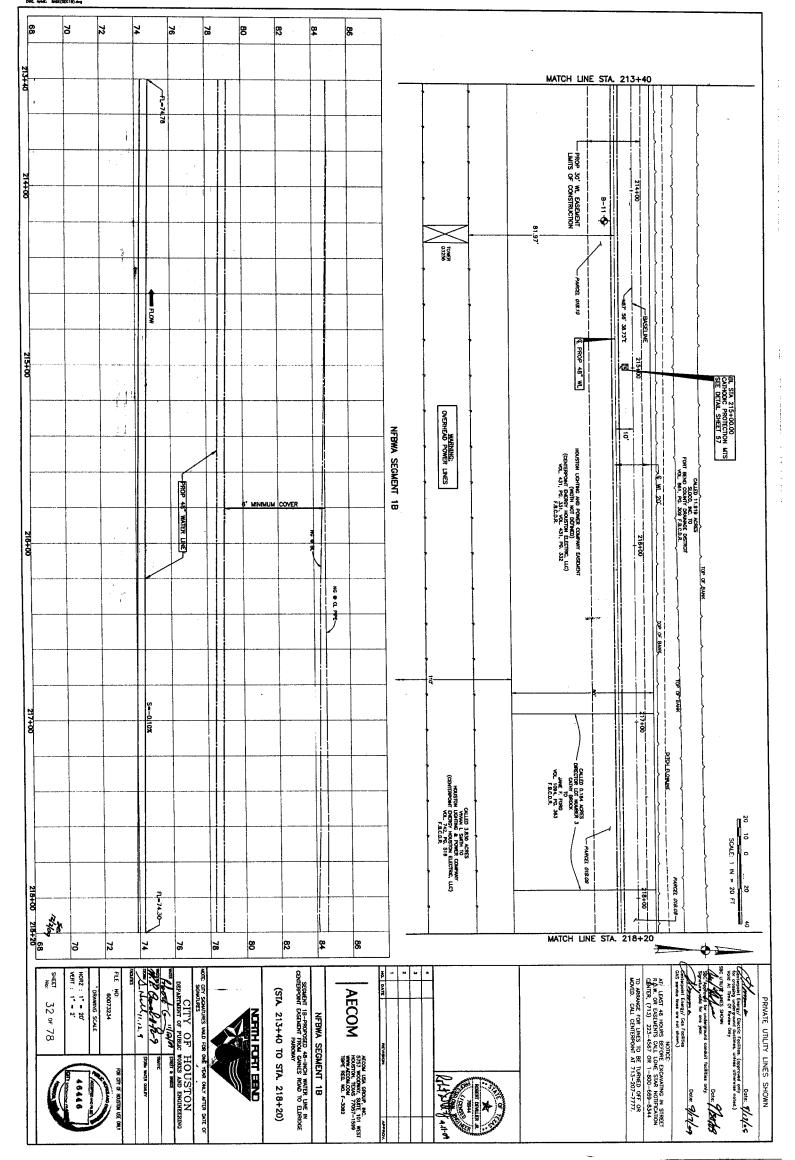
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-			,	PROP 48" WATER LINE			IINIMUM C	OVER	8. • R		NFBWA SEGMENT 18	-	UNES			46" W.]	H87 56 3673℃ 10'	BASELINE	
			S=-0.10X										CHIED GROW LOSES WHAN I SAME COLUED GROW LOSES CHIED GROW LOSES CHIED GROW LOSES		SLOCA, P.C. (HASSEDOR, COMMINT PLESSOROMINS PLESSOROMINS PLESSOROMINS PLESSOR	CALED 4,2877 ACRES	€ M. 20.	+	
			S 4.	4									ļ		CALLED 0.184 ACRES AUBREY DICKSON MARTIN, KIMBERLY K. HEJAAN F.M. 9215747 F.B.C.O.P.F	PROP 30' WL EASEMENT		PARCE DIBOS	CALED 0.444 ACRES SUCCO, NR.C.
333			Fl=73,90										OUZS7		MATCH	LINE ST	A. 222+	20	- B8
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No: JJ & /O	7.7 or	FILE NO: 60073234 DRAWING SCALE	SUPPLY THE SUPPLY OF THE SUPPL	NOLSHOOT STORY OF ALL A CLICK AND A CLICK	NOTE: CITY SIGNATURES WALD FOR ONE SIGNATURES		(SIA 218+20 10 SIA 222	SEGMENT 18-PROPOSED 48-INCH WATER LINE IN CENTERPOINT EXSENT FROM GAMES ROAD TO ELDRIGGE PARKWY	NFBWA SEGMENT 1B	AECOM 1959	HOLIDATE NEWSON	No 6					TO ARRANGE FOR LINES TO BE MOVED. CALL CENTERPOINT AT	AT LEAST 48 HOURS BEFORE EXCAVATING IN STREET ROW, OR EXECUTION CLICK STAR NOTIFICATION CENTER, (713) 223-4557 OR 1-800-669-8344	Date 1/1/2-5 The common Dartic (restina, undeas share are notes) Year are Time of Reimon (appropriate origina, undeas share are notes) Time of Reimon (appropriate origina) Time of Reimon (appropriate origina) The Appropriate for underground conduit haddess only. The Appropriate for underground conduit haddess only. The Appropriate original for the first original
		ERR CITY OF HOLDSTON LASS ONLY	N MANDS OTHER	OUSTON RS AND ENGINEERING TA BROOK	YEAR ONLY AFTER DATE OF		SIA ZZZ+ZO)	WES ROAD TO ELDRIDGE	ENT 18	AECOM USA GROUP, INC. 5757 MOCOMMY, SUITE 101 WEST HOUSTON, TEXAS 57057-1599 WWW.AECOM.COM TIBPE REG. NO. F-3082	APPROV.		BLAND TANK	* Security of the second secon			713-207-7777.	CXCAVATING IN STREET IE STAR NOTIFICATION 1-800-669-8344	Date 9/71/-5 net, urbasi citizerile nated.) Date 1/74/-5 Conduit fodities only Date 9/71/-5 Conduit fodities only

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ACCOM USA CROUP, INC.
5757 WOODWAY, SURTE 101 WEST
HOUSTON, TEAS 77057-1599
WWY_ACCOM_COM
TBPE REG. NO. F-3082

SEGMENT 18-PROPOSED 48-INCH WATER LINE IN CENTERPOINT EASEMENT FROM GAINES ROAD TO ELDRIDGE PARKWAY

NFBWA SEGMENT 1B

(STA 222+20 TO STA 227+20)

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FOR CITY OF HOUSTON USE ON

CITY SIGNATURES WALD FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

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Dote: SBC Approved for underground conduit facilities only. Separature valid for one year.

Date:

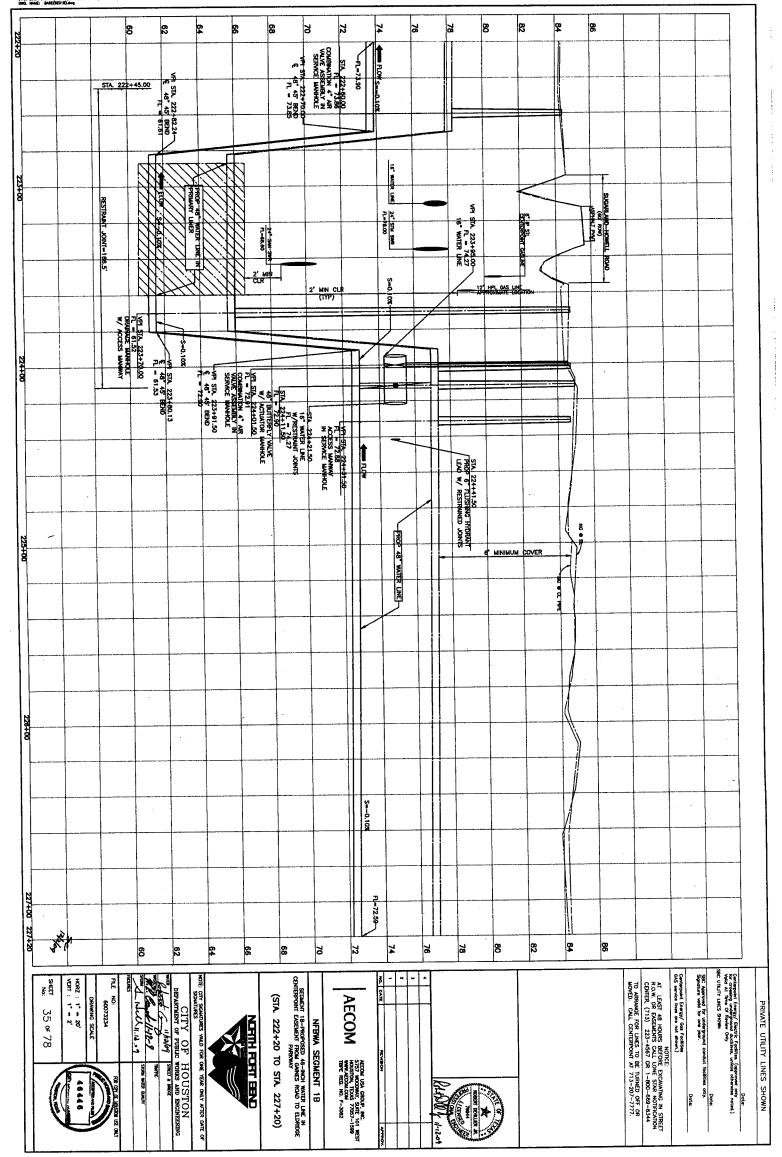
3C UTILITY LINES SHOWN

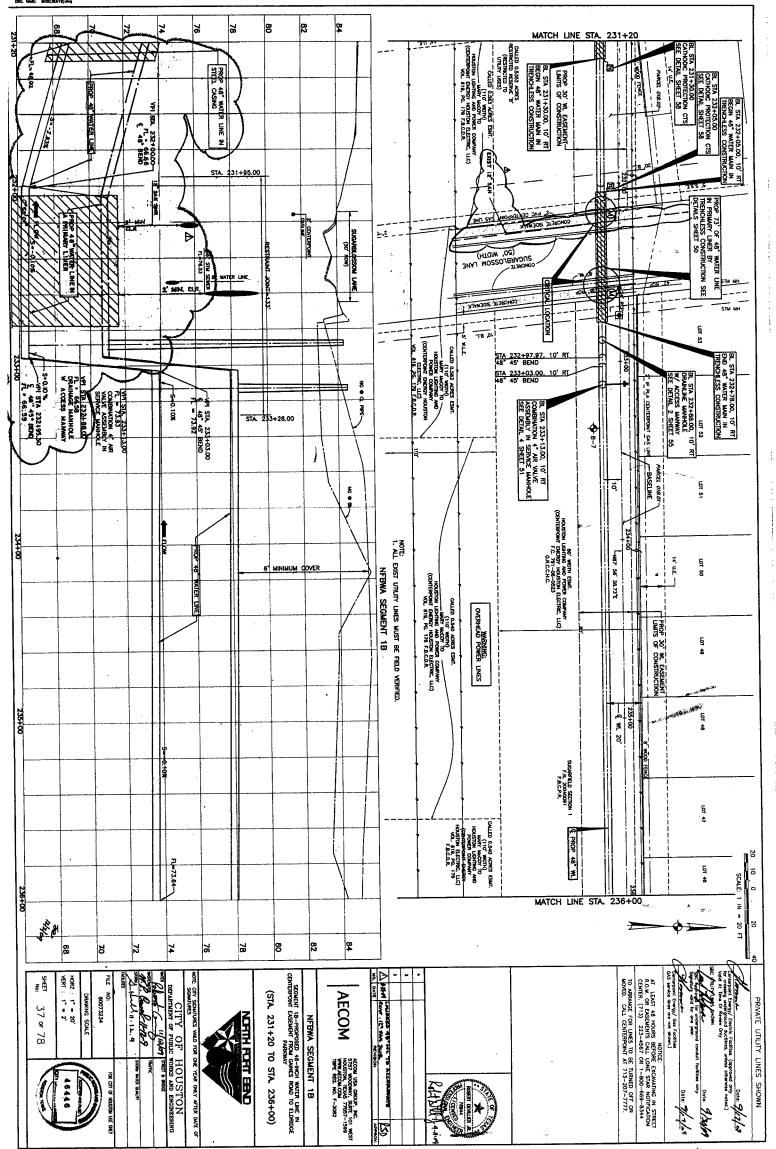
Centerpoint Energy/ Electric Focilities. (approved only for crossing underground ductifies, unless otherwise noted.) Yolid At Time Of Review Only

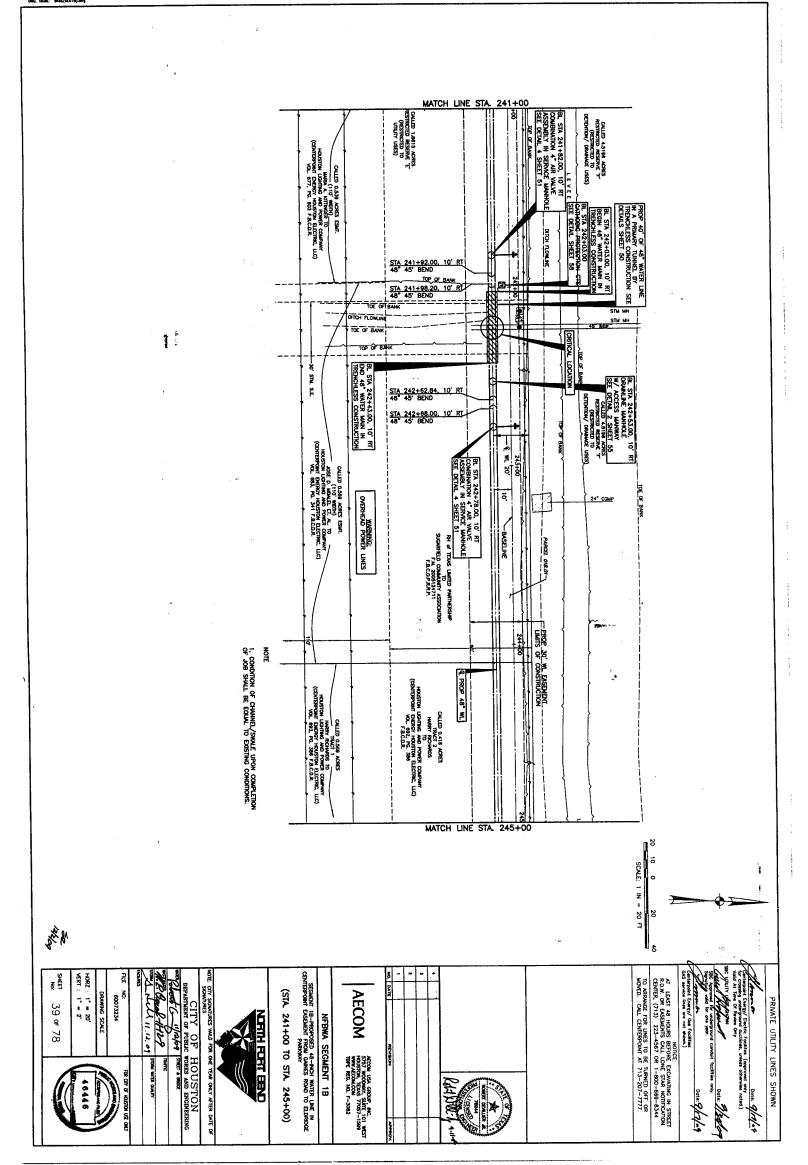
PRIVATE UTILITY LINES SHOWN

Canterpoint Energy/ Gas Focilities GAS service lines are not shown.)

AT LEST 48 HOURS BEFORE EXCAVATING IN STREET ROW, OR EXCELENTS OLL LONE STAR MOTHOLATION CENTER, (713) 223-4567 OR 1-800-680-8344
TO ARRANGE FOR MUESS TO BE IMPRED OFF OR MORED. OALL CENTERPORT AT 713-207-7777.







PRIVATE UTILITY LINES SHOWN

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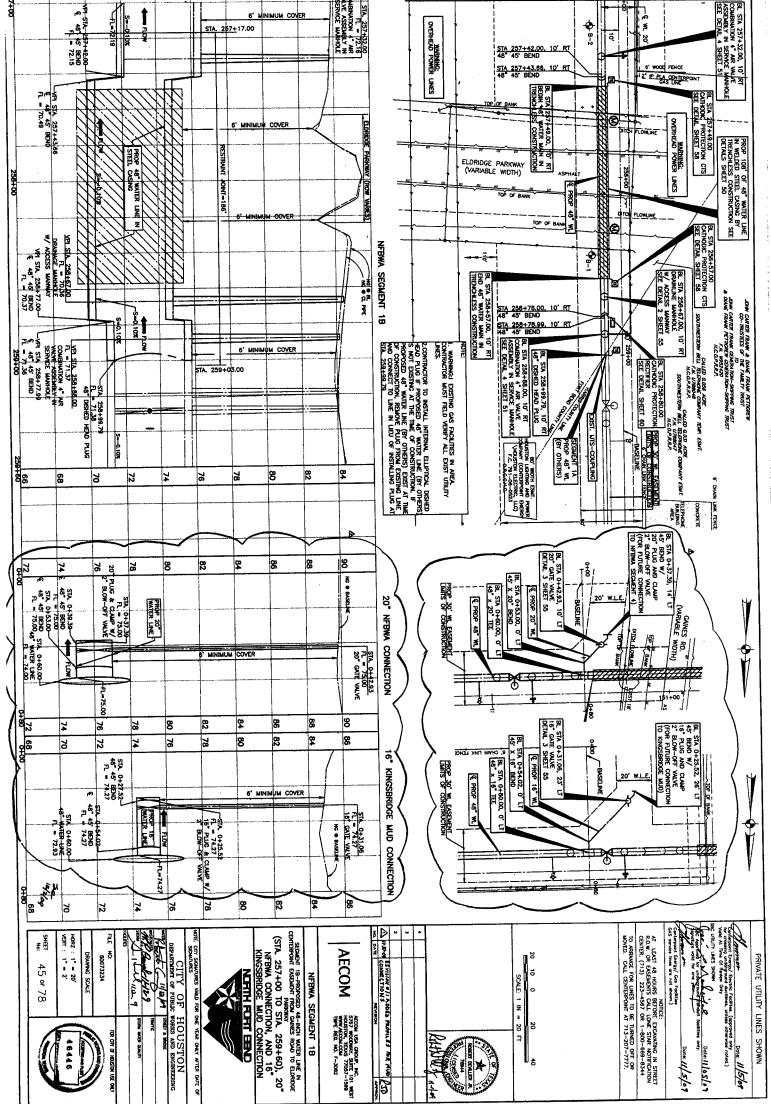
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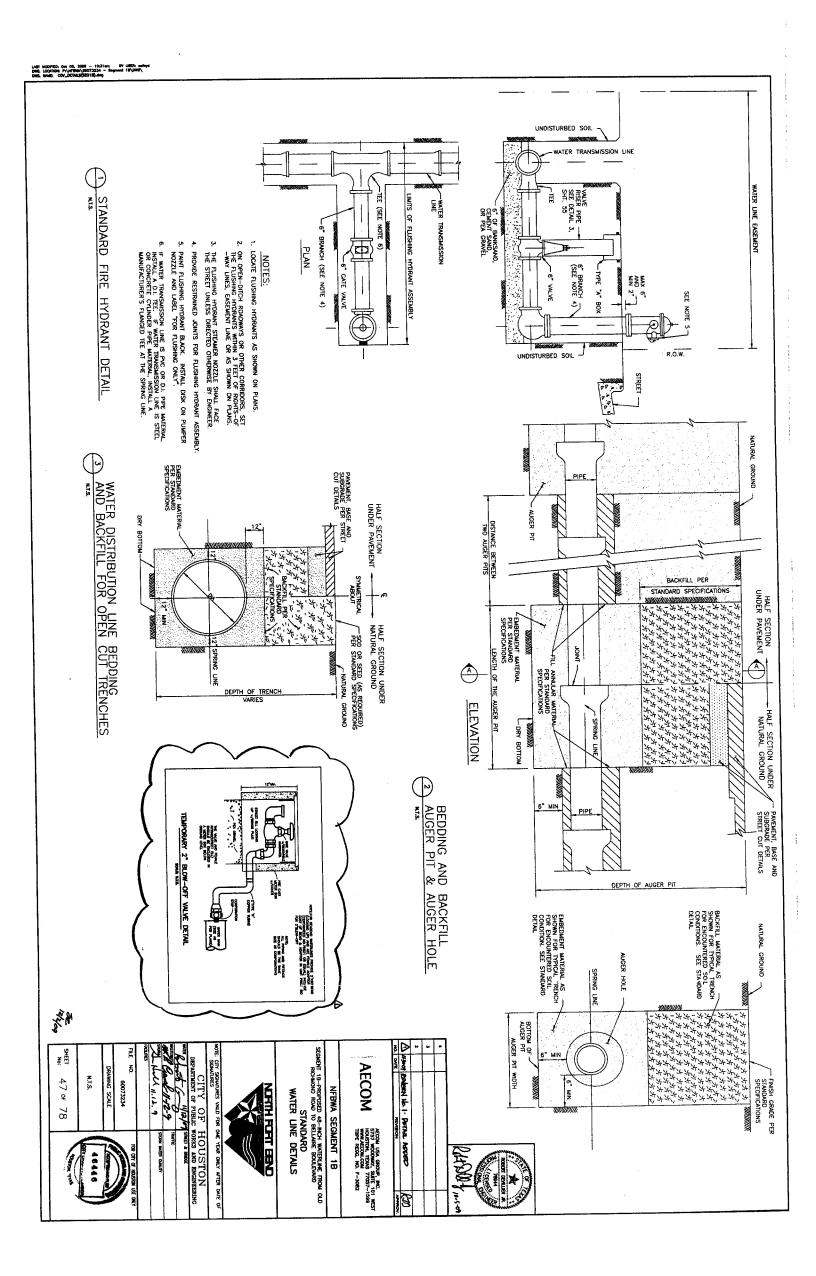
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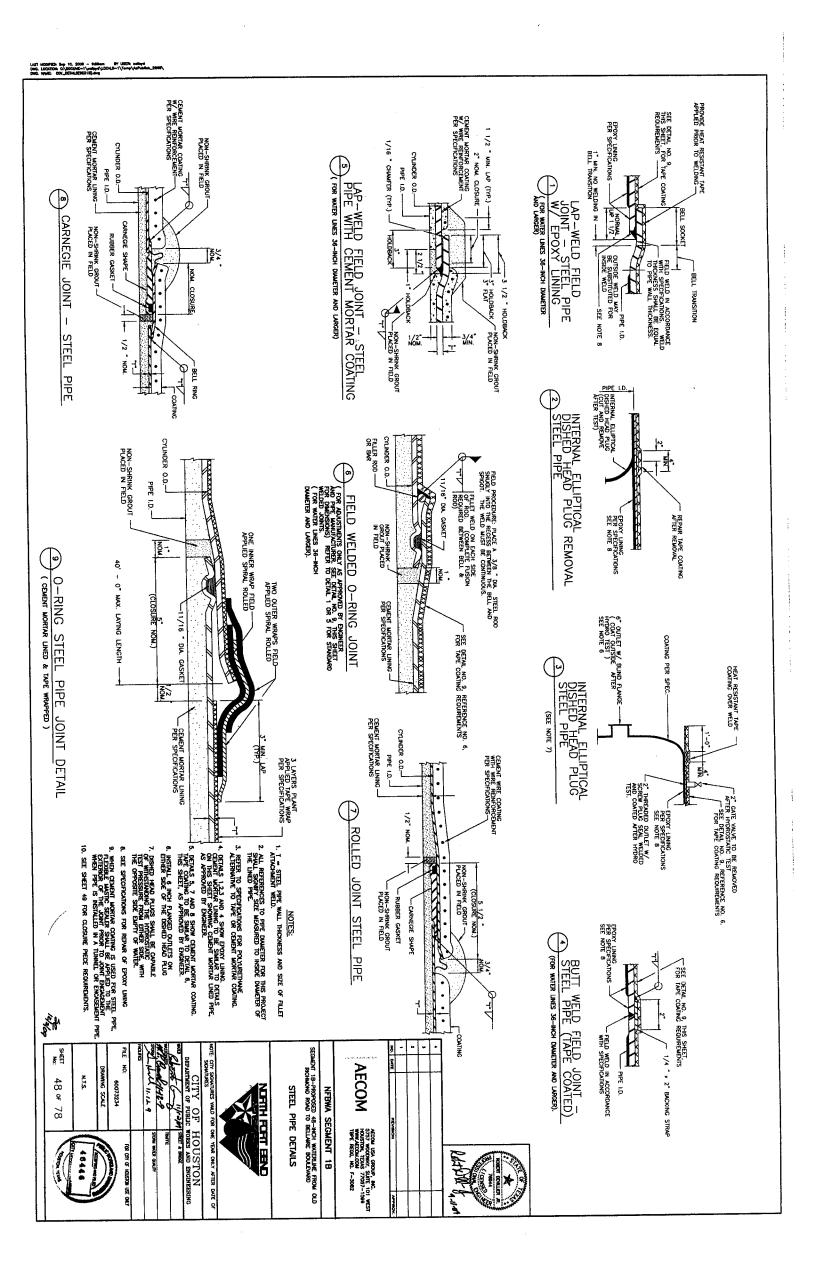
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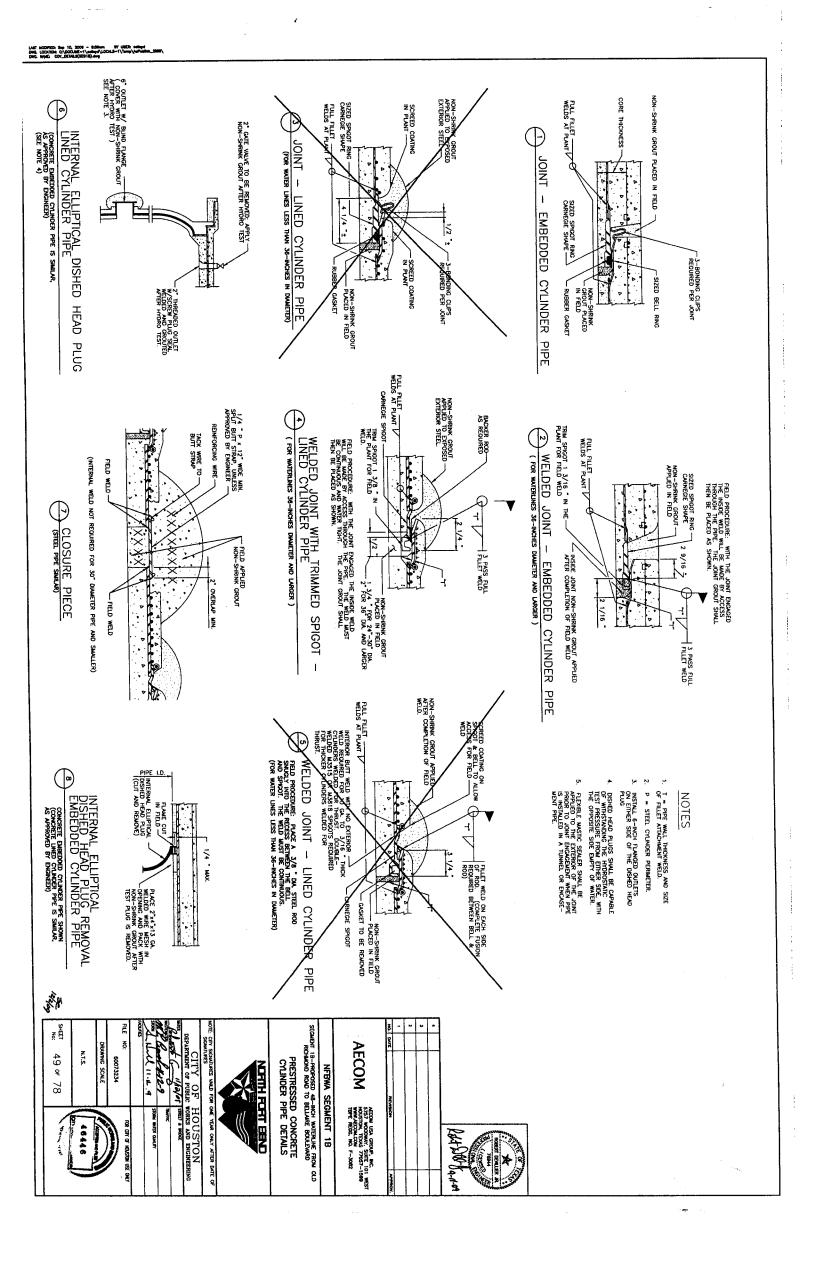
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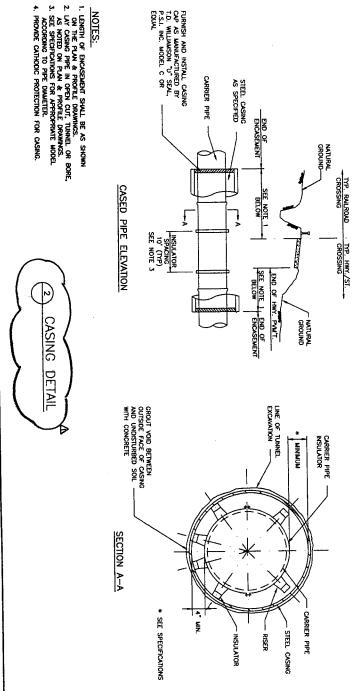
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NOTES:



CITY OF HOUSTON CITY SIGNATURES VALLD FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

STORM WATER CHARACTE

2. MINNUM CLEARANCES SHOWN ON THE PLAN & PROFILE DRAWNINGS ARE TO THE O.D. OF TUNNEL LINER. ADJUST PROFILE AS REQUIRED TO MAINTAIN CLEARANCES IDENTIFIED. NO SEPARATE PAY. 3. CONTRACTOR TO PROMDE SUBMITTAL OF THE TUNNEL LINER DESIGN SIGNED AND SEALED BY A PROFESSIONAL ENGINEER. 4. PROVIDE CATHODIC PROTECTION FOR LINER. 1. DETAIL IS FOR PRESTRESSED CONCRETE CYLINDER PIPE (STEEL PIPE ALTERNATE SIMILAR). SUPPORT TO BE PROVIDED BY CONTRACTOR SEE SPECIFICATIONS * MINIMUM

PIPE MUST BE ISOLATED FROM LINER OR METAL SUPPORTS/WEDGES A MINIMUM OF 4 INCHES

CONCRETE INVERT

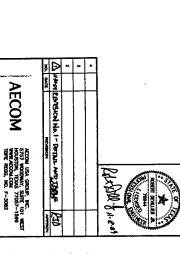
TUNNEL PRIMARY LINER SEE NOTE 3

MINIMOM

PRESSURE GROUT BEHIND TUNNEL LINER

PERMANENT JACKS OR WEDGES, AS DESIGNED BY CONTRACTOR

TUNNEL DETAIL



SECMENT 18-PROPOSED 48-INCH WATERLINE FROM OLD RICHMOND ROAD TO BELLARE BOULEVARD

TUNNEL AND CASING DETAILS NFBWA SEGMENT 1B

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2	_	NOTES:			ŧ			(N) [D	DIAMETER	WATERLINE		
LINERPLATE	DIAMETER OF			STEEL	₹	BAR-WRAPPED	P C C C		MATERIAL	Bdld		MINIM
S TWO FLANGE AND NORM	DIAMETER OF LINER PLATE IS AT NEUTRAL AXIS.			68 / 0.1048	68 / 0.1048	68 / 0.1048	72/0.1345	(SEE NOTE 2)	2-FLANGE LINER PLATE	DIA (IN) / WALL TH		MINIMUM TURNEL LINER / CASING SIZE AND THINKNESS
2 LINER PLATE IS TWO FLANGE AND NORMINALLY Z-INCH CORRUGATION BY G-INCH PROF	C ASS.			68 / 0.1345	68 / 0.1345	68 / 0.1345	72 / 0.1345		4-FLANGE UNER PLATE	DIA (IN) / WALL THICKNESS (IN) (NOTE 1)		3 SIZE AND THINKNESS
ST SHOW PROF				66 / 0.3125	68 / 0.3125	66 / 0.3125	/8 / 0.3125	THICKNESS	WALL	CASING LD. /		
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Water Main Diameter

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Valve Size Air Valve & Types

APCO*Model 148 38

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30" - 36" š

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A F 3" AN VALVE IS CHALLD FOR ON THE FAM. AN POOR I SOLD AN WAR-AN 170 OR I SOLD AN WAR-AN TO THE PROPER AND APPLICAMENTS AND IN E. 2" IN DIMETER SHALL BE 3" IN DIMETER AND SHALL BE CONSTRUCTED OF THE SAME MATCHAL AND CLASS.

VERBY THAT LOCATION OF SCREEN IS 1 FOOT ABOVE 100-YEAR FLOOD PLAIN ELEVATION OR 4 FEET ABOVE NATURAL GROUND WHICHEVER IS

7. FOR PANEJEM REPAR, SEE SHET SA EXCHANGING RECORM. BOOTHL MO PANEJEM REPARE DELINE, THE APPROVED SEET OF ACCESS MARKINGS TO MACHINE SEET OF ACCESS MARKINGS TO THE APPROVED FOR MACHINE APPROVED FOUND.

6. IF 4" AR WAYE S CHALD FOR ON THE PAW AND PROFILE SHICE." THEN PROFILE SHICE." ALL OTHER PROFILE SHICE AS SHOWN TO BE AND SHALE BE CONSTRUCTED IN THE SHIE MATERIAL AND CLASS.

5. REFER TO PLAN AND PROFILE SHEETS FOR TYPES AND LOCATIONS OF COMBINATION AIR VALVES.

1. PROVIDE RAM—NEX OR APPROVED EQUAL BETWEEN PRECAST SEGMENTS OF THE MANHOLE. PROVIDE AN APPROVED PETROLEUM BASED TAPE ENCAPSULATING ALL BOLTS IN MANHOLES & VALILIS

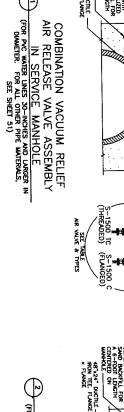
S. E.E. FILE NO: A 44 % CITY OF HOUSTON DEPARTMENT OF PUBLIC WORKS AND ENGINEERING CITY SICHATURES WALD FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES DRAWING SCALE N.T.S. 52 or 78 aline? 60073234 ALTHRIO ACTIVIA PRIORS STOCK & CENTS FOR CITY OF HOUSION US 16446

SEGMENT 18-PROPOSED 48-INCH WATERLINE FROM OLD RICHMOND ROAD TO BELLARE BOULEVARD COMBINATION AIR VALVE
DETAILS FOR
PVC WATERLINES

AECOM NFBWA SEGMENT 1B AECOM USA GROUP, INC.
5757 WOODWAY, SUITE 101 WEST
HOUSTON, TEAKS 77057-1569
WWW.AECOM.COM
TIBPE RECG, INC. F-3082

A DESCRIPTION OF THE PROPERTY OF THE PROPERTY

ACCESS MANWAY IN
SERVICE MANHOLE
(FOR PAC WATER LINES 30-NICHES AND LARGER IN
DAMETER. FOR ALL OTHER PIPE MATERIALS,
SEE SHEET 51)



FILL TRENCH WITH CEMENT STABILIZED SAND BACKFILL FOR A 6 FOOT LENGTH CENTERED ON MANHOLE

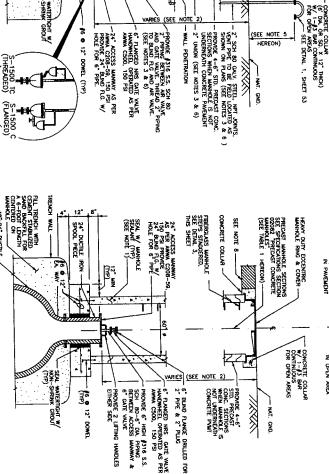
TRENCH WALL -

EA WAY

NON-SHRINK GROUT

#6 @ 12" DOWEL (TYP)

SPOOL PIECE



APCO #145C-2" COMBINATION AIR VALVE,
3/8 " ORIFICE W/2" SCH BO RISER AND
VENT PIPE (SEE NOTES 3 & 6) PROVIDE 6" HIGH #316 S.S. SCH 80-6" PIPING BETWEEN ACCESS MANWAY & 6" GATE VALVE, PROVIDE 6" FLANGE.

FIBERGLASS MANHOLE STEPS — STAGGERED, SEE DETAIL 3, THIS SHEET

CONCRETE COLLAR --

SEE NOTE 8-

(SEE TABLE I HEREON)-

HEAVY DUTY ECCENTRIC HANHOLE RING & COVER : PRECAST MANHOLE SECTIONS
SEE SPECIFICATIONS SEC.
12082 PRECAST CONCRETE
12082 PRECAST CONCRETE

HALF SECTION FOR HANNHOLE IN PAVEMENT

HALF SECTION FOR WANHOLE IN OPEN AREA

HALF SECTION FOR MANHOLE IN PAVEMENT

FOR MANHOLE IN OPEN AREA

2" x 90" BEND, NPT (SEE NOTES 3 & 6)-

- WALL PENETRATION

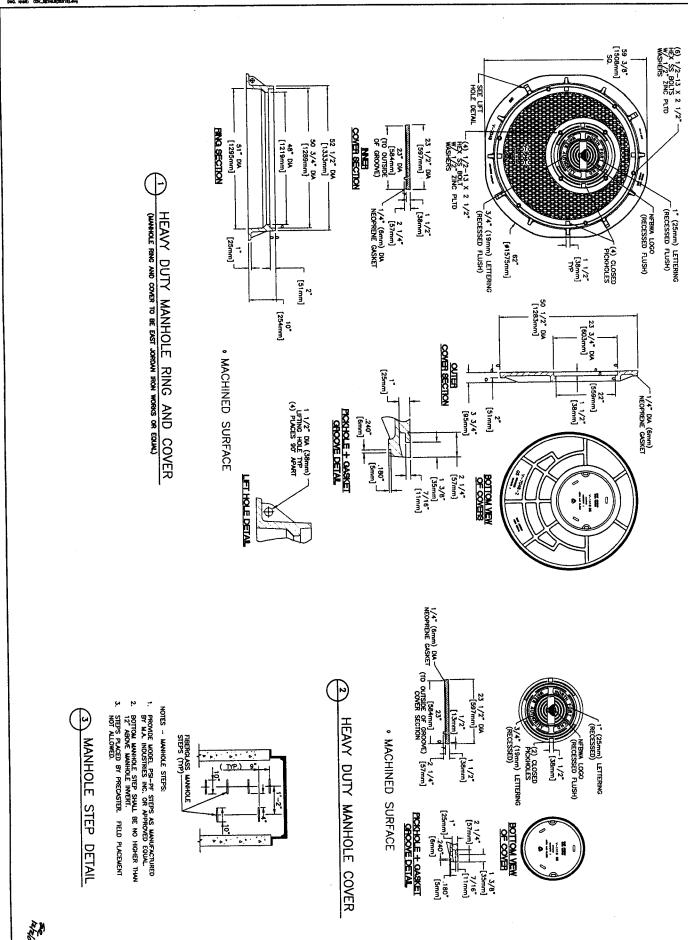
SEAL W/ MANHOLE SEALANT --(TYP) (SEE NOTE 1) 12" MIN

(36. |¥ |•

PROVIDE 2 LIFTING HANDLES -

1. PROVIDE MODEL PSI-PF STEPS AS UMNUFACTURED BY MA. INDUSTRES INC. OR APPROVED EQUAL.
2. BOTTOM MAYOLE STEP SMALL BE NO HIGHER THAN 12" ABOVE MAYHOLE INVERT. NOTES - MANHOLE STEPS: MANHOLE STEP DETAIL FIBERGLASS MANHOLE STEPS (TYP)

额额



SEGMENT 18-PROPOSED 48-INCH WATERLINE FROM OLD RICHMOND ROAD TO BELLAURE BOULEVARD

NFBWA SEGMENT 1B

HEAVY DUTY MANHOLE RING AND COVER DETAILS

AECOM

AECOM USA GROUP, INC.
5737 WCODWAY, SUITE 101 WEST
HOUSTON, ITEMAS 77057-1599
WWW.AECOM.COM F-3082
TBPE REGG, NO. F-3082

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CITY SIGNATURES VALUE FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

CITY OF HOUSTON ENGINEERING

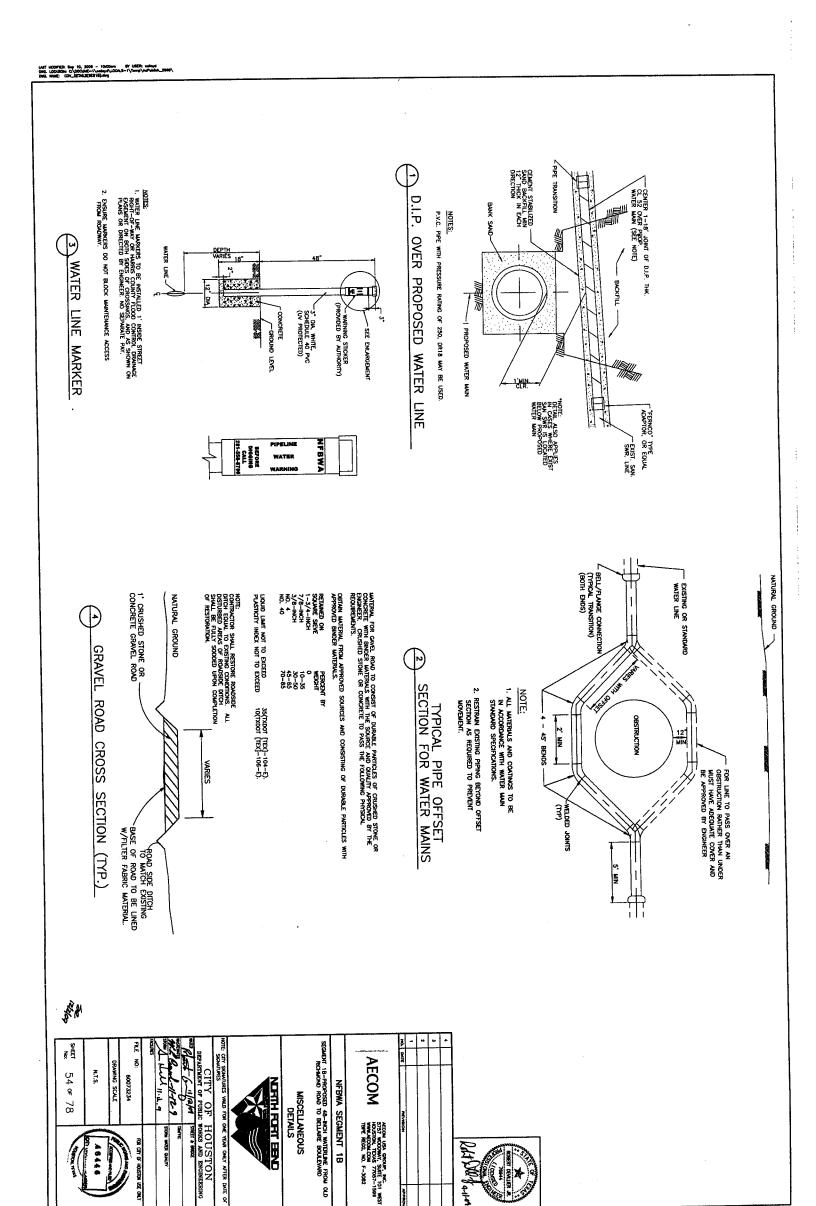
ALTHID AGINM PROSS STREET & BROCK



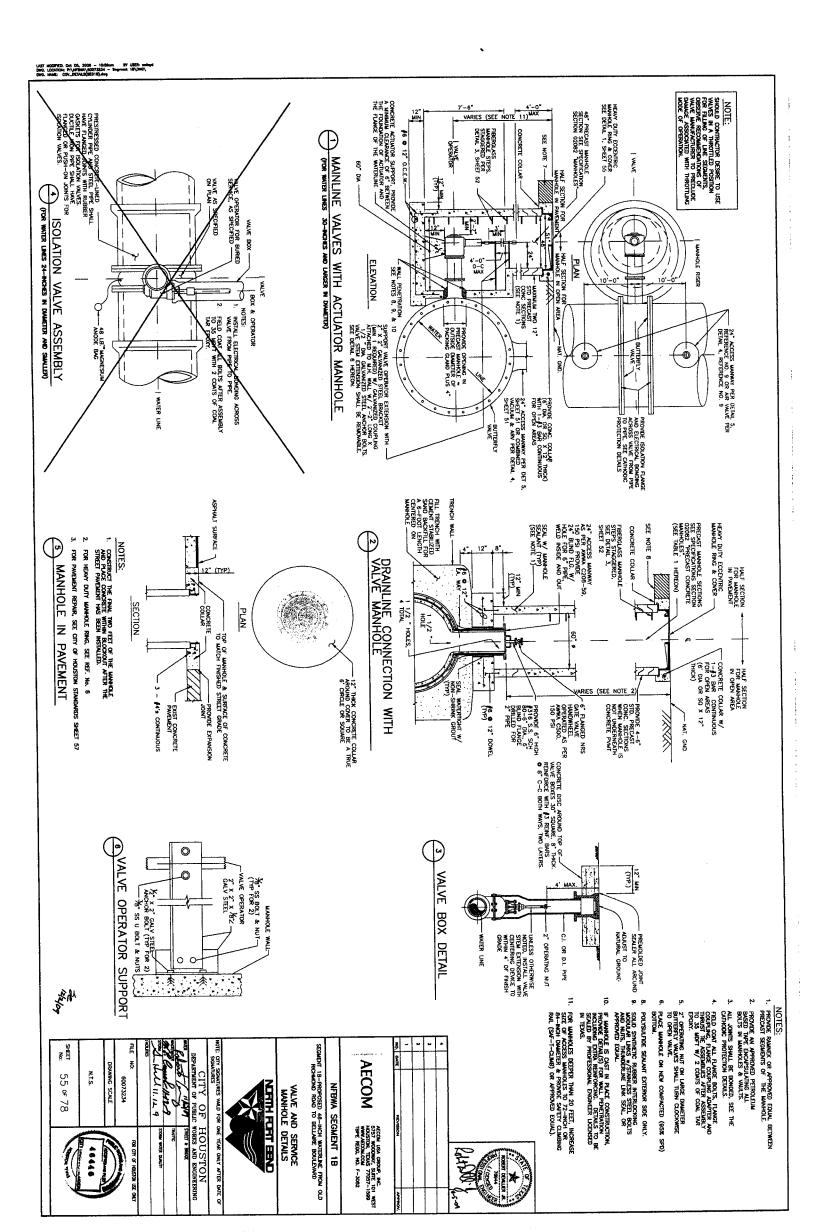
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TEST STATION SCHEDULE

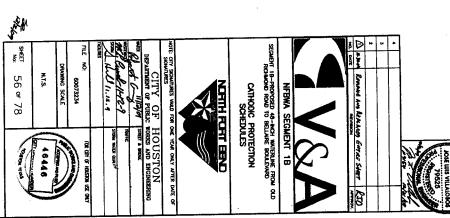
- Bond identical pipe materials for electrical continuity. If the pipe materials are not identical, install a dielectric insulating joint and an insulating joint test station at the connection to the 48-inch NFWA Segment 2 pipeline. If the pipe materials are identical, NFBWA should notify V&A to recalculate the cathodic protection requirements.
- recalculate the cathodic protection requirements. install a dielectric insulating joint and an insulating joint test station at the connection to the 48-inch NFWA Segment 1A pipeline. If the pipe materialsNFBWA should notify V&A to Bond identical pipe materials for electrical continuity. If the pipe materials are not identical,

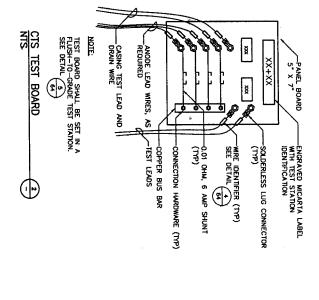
RECTIFIER SCHEDULE

		Size	•	Anodes	des	Anode Well		
Dine Material	Station	Voits	Amps	Number	Туре	Depth (Feet)	Structure	Details
Laboration and L	L							
Steet Pipe with Bonded Dielectric			1	,	:		Age Water	Š
Coating	196+00	24	œ	3	3	8	100	١
Mortar-Coated Steel Pipe and Bar-	2 00+961			,	!		1	ŝ
Wanned Steel Cylinder Pine	258+80	8	8	œ	Ą	ē	40 AAGIGE	7
A transfer occur of many 1 And								

GENERAL NOTES

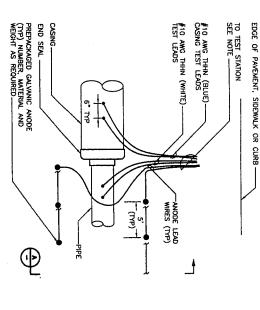
- THE LOCATIONS FOR RECTIFIERS, ANODES AND TEST STATIONS INDICATED ON THE SITE PLANS ARE APPROXIMATE. FIELD LOCATE AND MARK THE FINAL LOCATIONS FOR DISTRICT APPROVAL.
- 2. PROTECT EXISTING TEST STATIONS AND EXISTING ANODE WIRES. DAMAGE TO EXISTING WIRES, ANODES, TEST STATIONS OR STRUCTURES SHALL BE REPLACED BY THE CONTRACTOR. UNAPPROVED CABLE SPUCES ARE NOT ALLOWED.

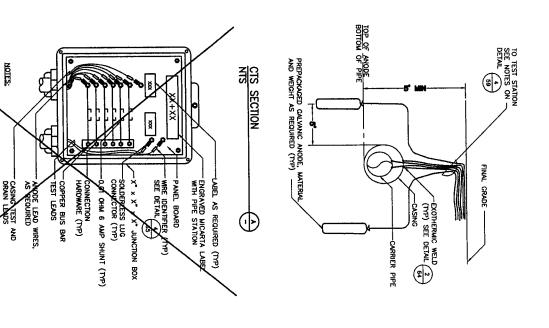




CASING TEST STATION (CTS) PLAN (-)

1. IF TEST STATION IS FLUSH MOUNTED, REFER TO DETATIL $\frac{5}{64}$





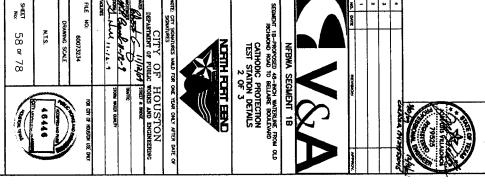


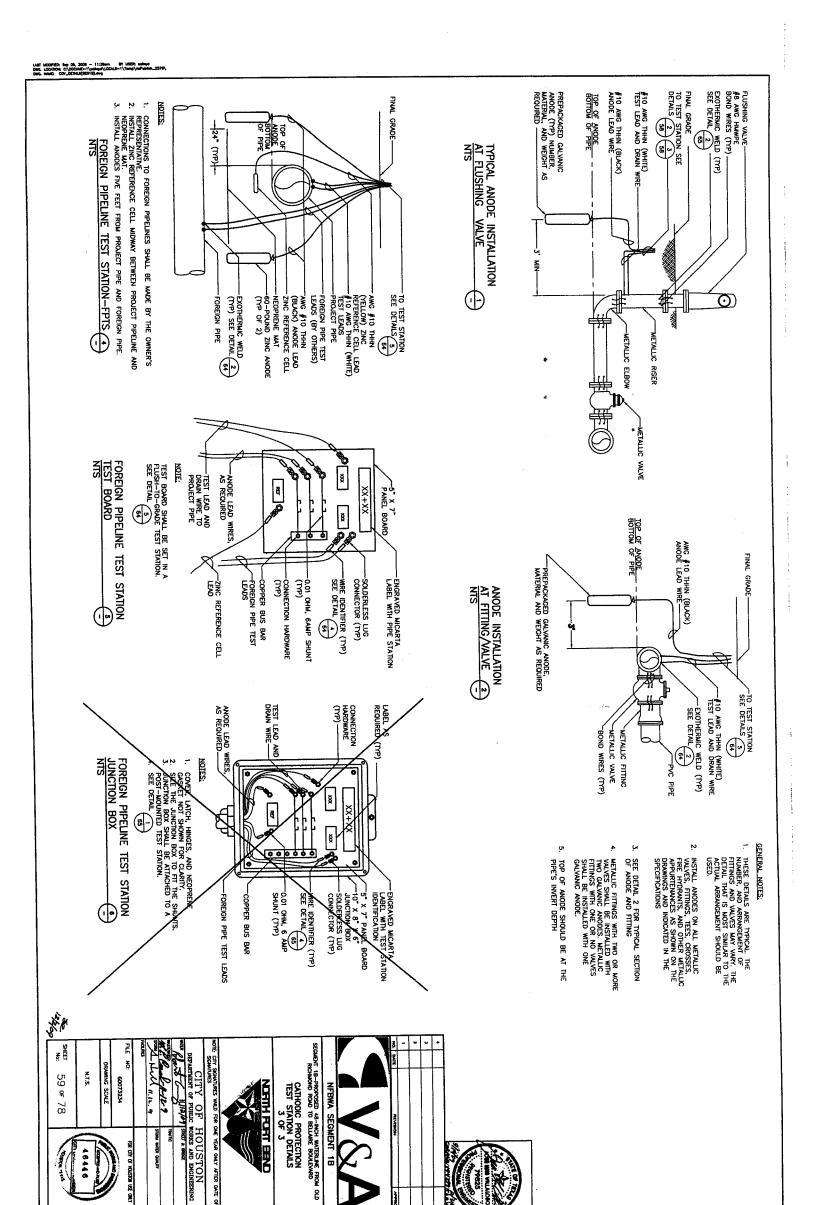
1. COVER LATCH, HINGES, AND NEOPRENE CASET NOT SHOWN FOR CLARITY.
2. SIZE THE JUNCTION BOX TO FIT THE SHUNTS.
3. JUNCTION BOX SHALL BE ATTACHED TO A SEE DEFAIL 1

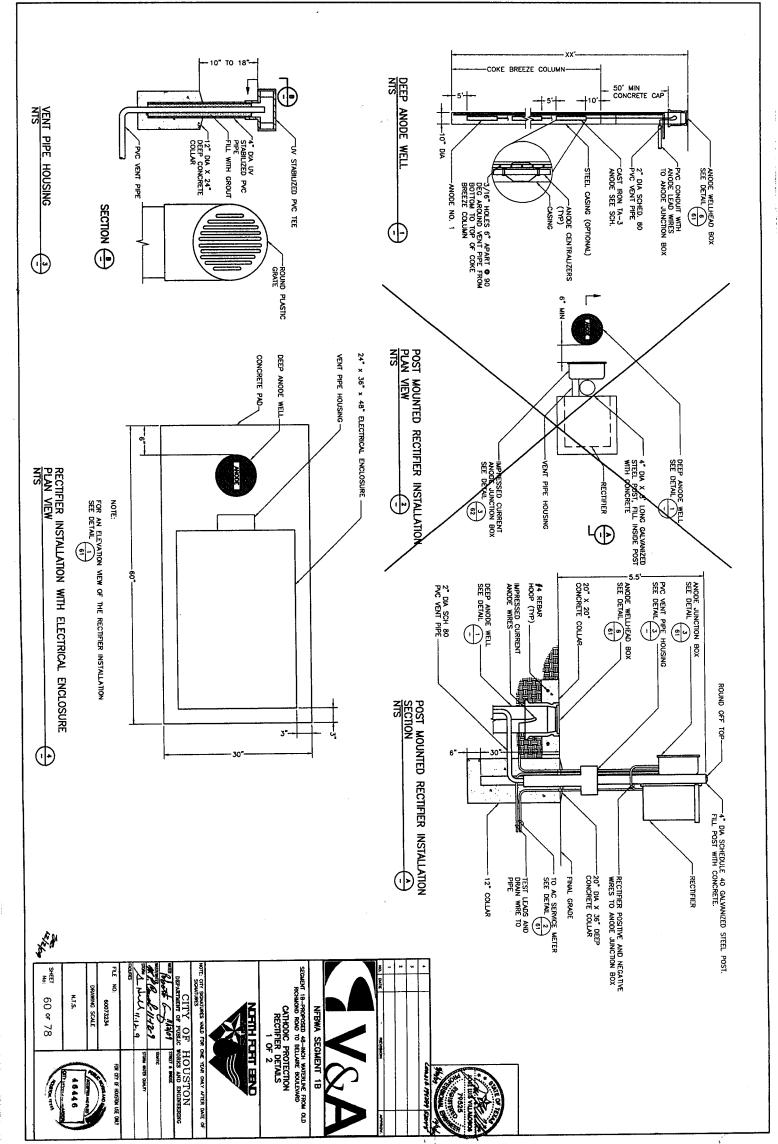
CTS JUNCTION BOX

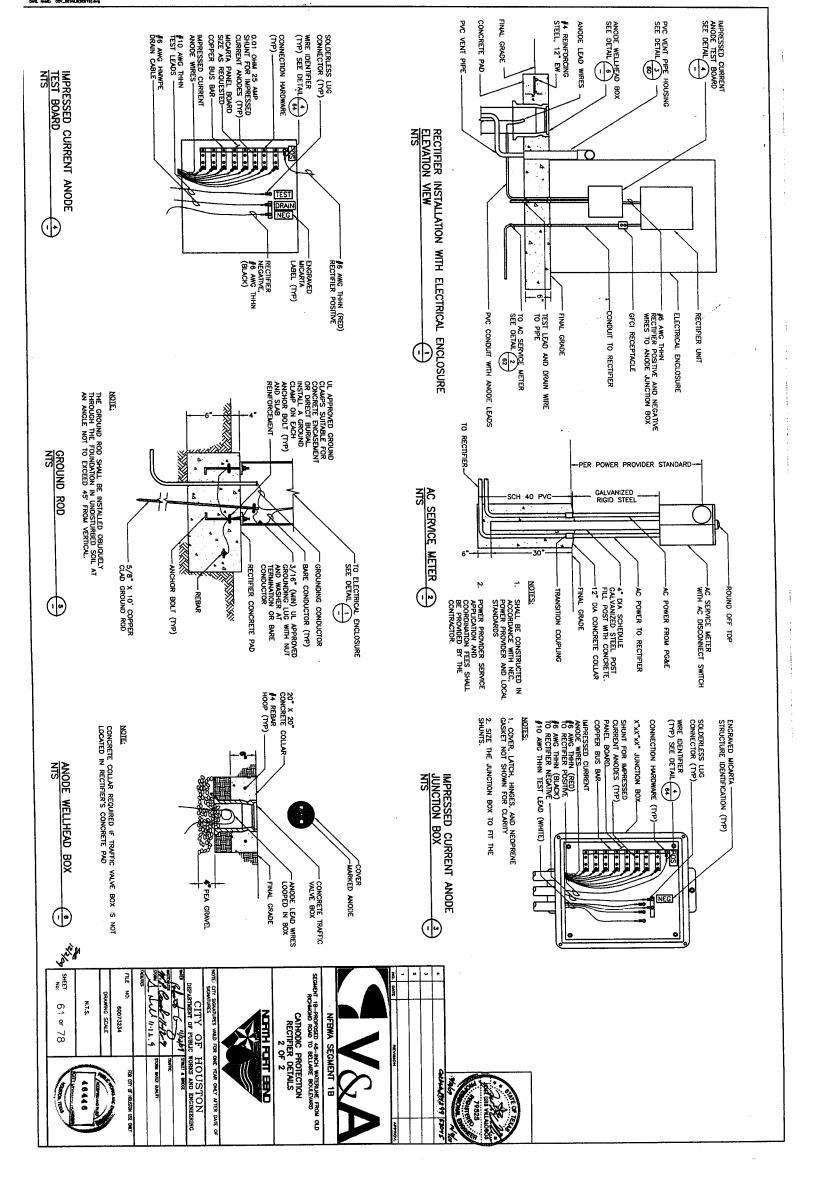
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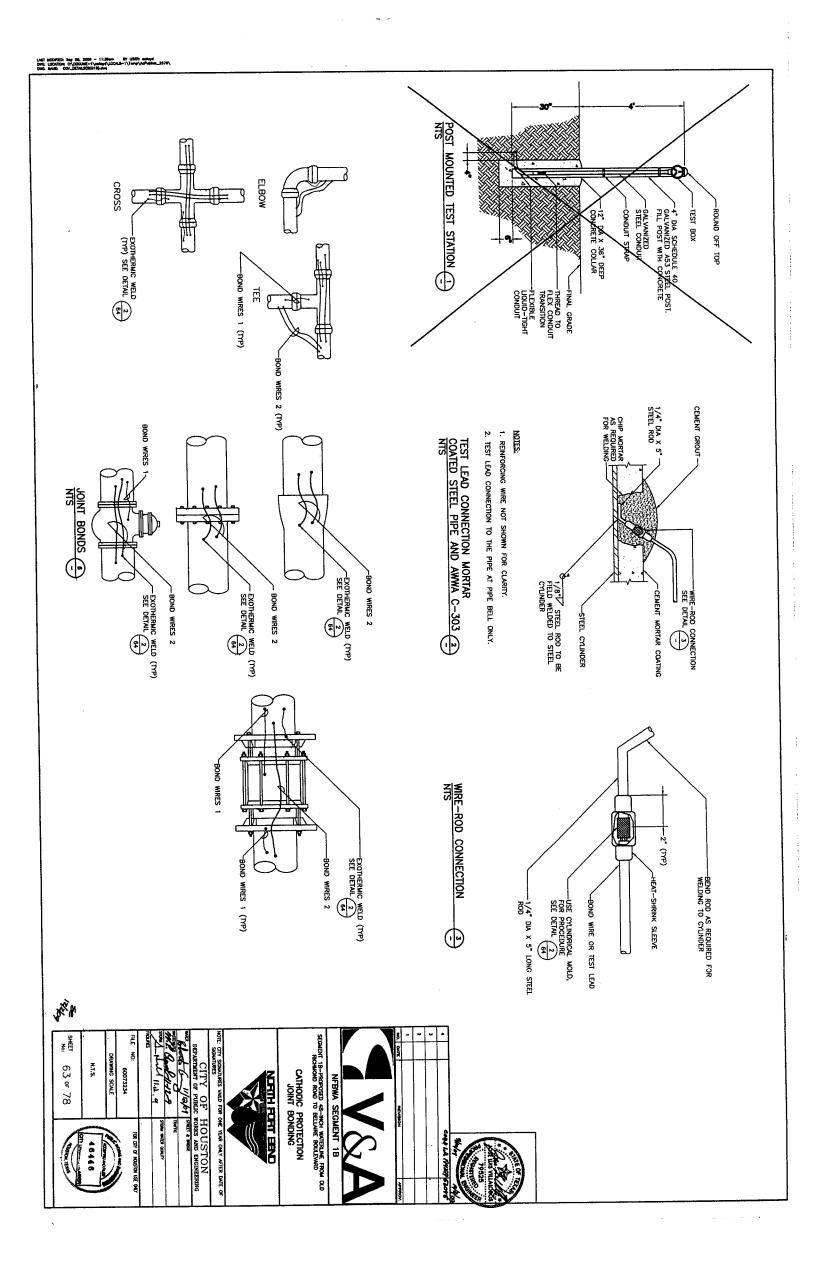
NOTES:











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SEGMENT 18-PROPOSED 48-INCH WATERLINE FROM OLD RICHMOND ROAD TO BELLAIRE BOULEVARD

NFBWA SEGMENT 1B

CATHODIC PROTECTION MISCELLANEOUS DETAILS 1 OF 2

CITY OF HOUSTON DESCRIPTION OF YOUR OWN AFTS! DATE OF SOMMINGE.

SECURIZED OF PUBLIC WORKS AND ENGINEERING DEPARTMENT OF PUBLIC WORKS AND ENGINEERING DEPARTMENT OF PUBLIC WORKS.

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-ADJUSTABLY LINKED RUBBER SEAL (TYP) -WEED RING (TYP)

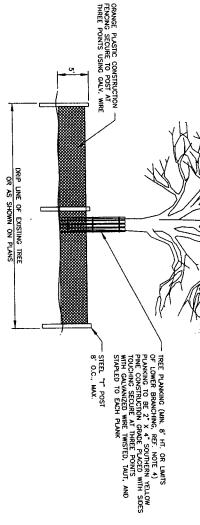
NFBWA SEGMENT 18

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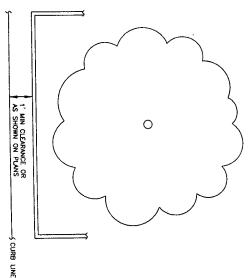
AUTHYD ACIDMA FRBDAS

FOR CITY OF HOUSTON USE ONLY

TREE PROTECTION DETAIL



TREE PROTECTION DETAIL



5. ALL GRADING WITHIN PROTECTED ROOT ZONE AREAS SWALL BE DONE BY HAND TO MINIMIZE ROOT DAMAGE AND SOIL COMPACTION. PRIOR TO GRADING, RELOCATE PROTECTIVE FEBLING TO 2 FEET BEHIND THE GRADE CHANGE AREA. GRADE SMALL REMAIN UNCHANGED WHERE POSSIBLE.

6. ANY ROOT SEVERED BY CONSTRUCTION ACTIVITY SMALL BE PRINCED FLUSH WITH THE SOIL. BACKFILL ROOT MEDS WITH GOOD QUALITY TOP SOIL AS BOOM AS POSSIBLE. IF EXPOSED ROOT MEDS ARE NOT ABOUT ARTISM. IN A BACKFILLED WITHIN 2 DAYS, COVER THEM WITH ORGANIC MATERIAL IN AMAINED WHICH REDUCES SOIL TEMPERATURE AND MINIMIZES DRYING OF THE ROOT DUE TO EMPORATION.

TREES IMPACTED BY CONSTRUCTION ACTIVITIES SHALL BE WATERED THOROLUSHLY ONCE A WEEK DURING PERIODS OF HOT AND/OR DRY WEATHER, THEE CROWNS SHALL BE SPRACED WITH WATER PERIODICALLY TO REDUCE DUST ACCUMULATION ON THE LEAVES.

PRUNING SHALL BE PROVIDED BY THE CONTRACTOR TO PROVIDE CLEARANCE FOR STRUCTURES OR CONSTRUCTION ACTIVITIES. PRUNING SHALL TAKE PLOCE BEFORE CONSTRUCTION BEGINS, ONLY WITH PROOF APPROVAL FROM AUTHORITY'S ENGINEER. ALL PRUNING MUST BE CONFE. ACCORDING TO RECOGNIZED, APPROVED STANDARDS OF THE INUSTRY REFERENCE THE MAR PRUNING STANDARDS), AND BY AN EXPERIENCED AND QUALIFIED ARBORIST WHOSE PRIMARY BUSINESS IS TREE CARE.

OF THE AUTHORITY'S ENGINEER.

12. AS SOON AS 4" WIDE X 24" DEEP TRENCH IS CUT, EXPOSED ROOTS SHALL BE HAND CUT TO CREATE CLEM ROOT CUTS. AS SOON AS HAND CUTS ARE COMPLETE, BACKFILL TRENCH WITH A SANDY LOAM TOPSOIL PLACED IN 6" LIFTS, AND COMPACTED AS REQUIRED BY SPECIFICATIONS.

PRESERVATION TREE

1. ALL TREES SHOWN ON THE TREE PRESERVATION PLANS WITH $\widehat{\square}$ SHALL BE PROTECTED THROUGHOUT CONSTRUCTION WITH TREE PROTECTION.

2. TREE PROTECTION FENCING SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF ANY SITE PREPARATION WORK (CLEARING, GRUBBING OR GRADING).

3. FENCING SHALL BE LOCATED AS SHOWN ON DRAWNINGS, OR COMPLETELY SURROUND THE TREE OR CLUSTERS OF TREES AND WILL BE LOCATED AT THE OUTERMOST LIMITS OF THE TREE BRAWCHES (ORPLINE). THE DRIPLINE STHE 'ROOT ZONE'. WITHIN THE LIMITS OF FENCING, THE CONTRACTOR SHALL PREVENT THE FOLLOWING FROM OCCURRING WITHOUT PROPA WRITTEN AUTHORIZATION FROM THE OWNER'S REPRESENTATIVE:

A SOIL COMPACTION IN THE ROOT ZONE AREA RESULTING FROM VEHICULAR TRAFFIC OR STORAGE OF EQUIPMENT OR MATERIALS.

B. ROOT ZONE DISTURBANCES DUE TO GRADE CHANGES (GREATER THAN 3" CUT OR FILL) OR TRENCHING NOT REVIEWED OR AUTHORIZED.

C. WOUNDS TO EXPOSED ROOTS, TRUNK, OR LIMBS BY MECHANICAL EQUIPMENT.

D. OTHER ACTIVITIES DETRIMENTAL TO TREES SUCH AS CHEMICAL STORAGE, CONCRETE TRUCK CLEANING, AND FIRES.

WHERE EXCEPTIONS RESULT IN A FENCE BEING CLOSER THAN 4 FEET TO A TRUNK, PROTECT THE TRUNK WITH STRAPPED—ON PLANKING TO 4 HEGERT OF 8" (OR TO THE LUMTS OF THE LOWER BRANCHING) AS INDICATED ON TREE PROTECTION PLANS.

SE A SERVICE AND A SERVICE AND

NO LANDSCAPE TOPSOIL DRESSING GREATER THAN 3" MAXIMUM SHALL BE PERMITTED WITHIN THE DRIPLINE OF TREES. NO PERMANENT SOIL OR MULCH IS PERMITTED ON THE ROOT FLARE OF ANY TREE.

10. PROVIDE CORRECTIVE PRUNING AT THE COMPLETION OF CONSTRUCTION TO REMOVE ANY BROKEN OR DAMAGED LIMES, UNDER THE DIRECTION

11. IF REQUIRED , ROOT PRUNE BY TRENCHING A CLEAN 4" WIDE X 24" DEEP CUT BETWEEN THE DISTURBED AND UNDISTURBED ROOT ZONES WITH RERGATION TRENCHER TO MINIMIZE DAMAGE TO REMAINING ROOTS. MARK AND REVIEW TRENCH LINE WITH AUTHORITY'S ENGINEER PRIOR TO TRENCHING.

13. IN AREAS WHERE LIME STABILIZATION ABUTS OR ENCROACHES UPON ROOT ZONES, AND WHERE ROOT PRUNNIC IS CALLED FOR, INSTALL 10-MIL. PLASTIC SHEETING TO FULL DEPTH OF ROOT PRUNING TRENCH AND 6" OWER TOP. CUT AND REMOVE EXPOSED PLASTIC AT COMPLETION OF WORK.

AECOM NFBWA SEGMENT 1B AECOM USA GROUP, INC. 5757 WOODWAY, SUITE 101 WEST HOUSTON, TEAS 77067-1598 WWW.AECOM.COM TIPE REDG, NO. F-3082

SEGMENT 18-PROPOSED 48-INCH WATERLINE FROM OLD RICHMOND ROAD TO BELLAIRE BOULEVARD

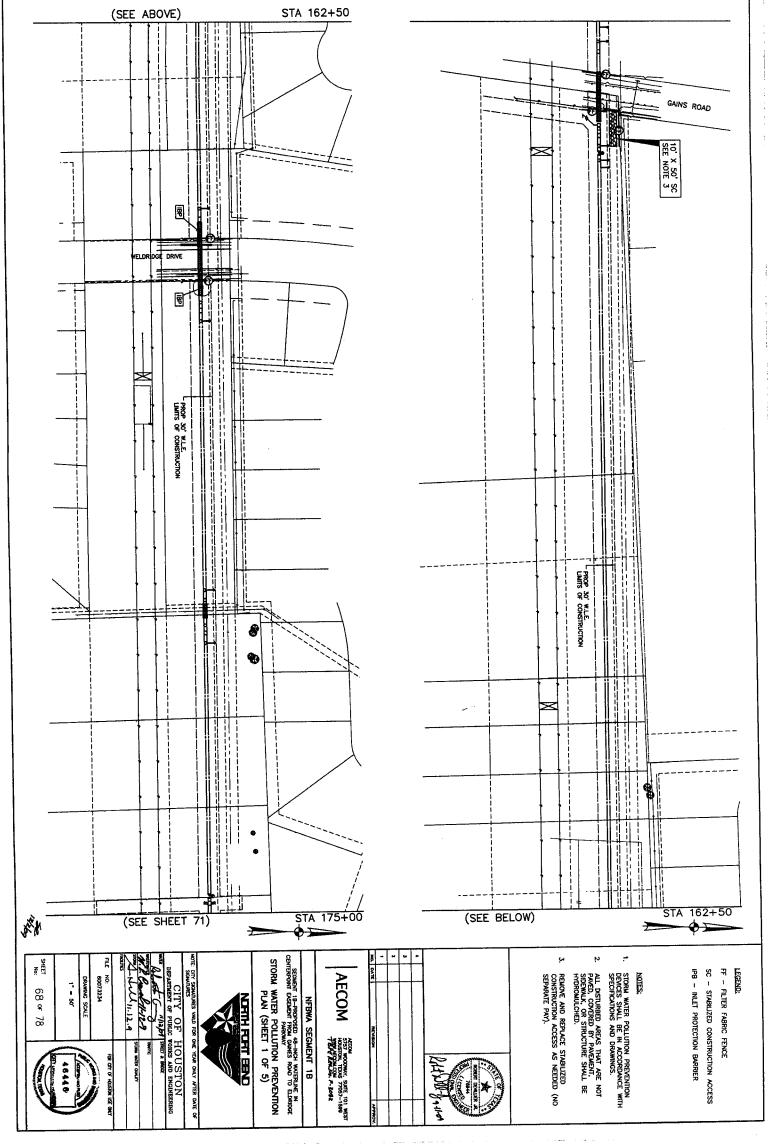
TREE PROTECTION PLAN

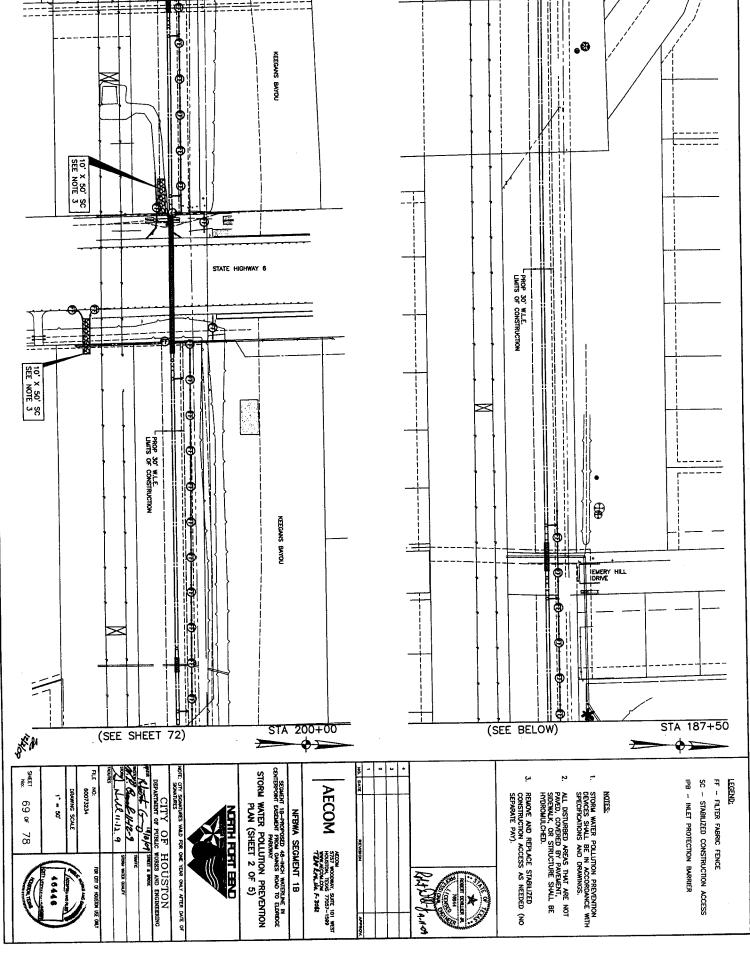
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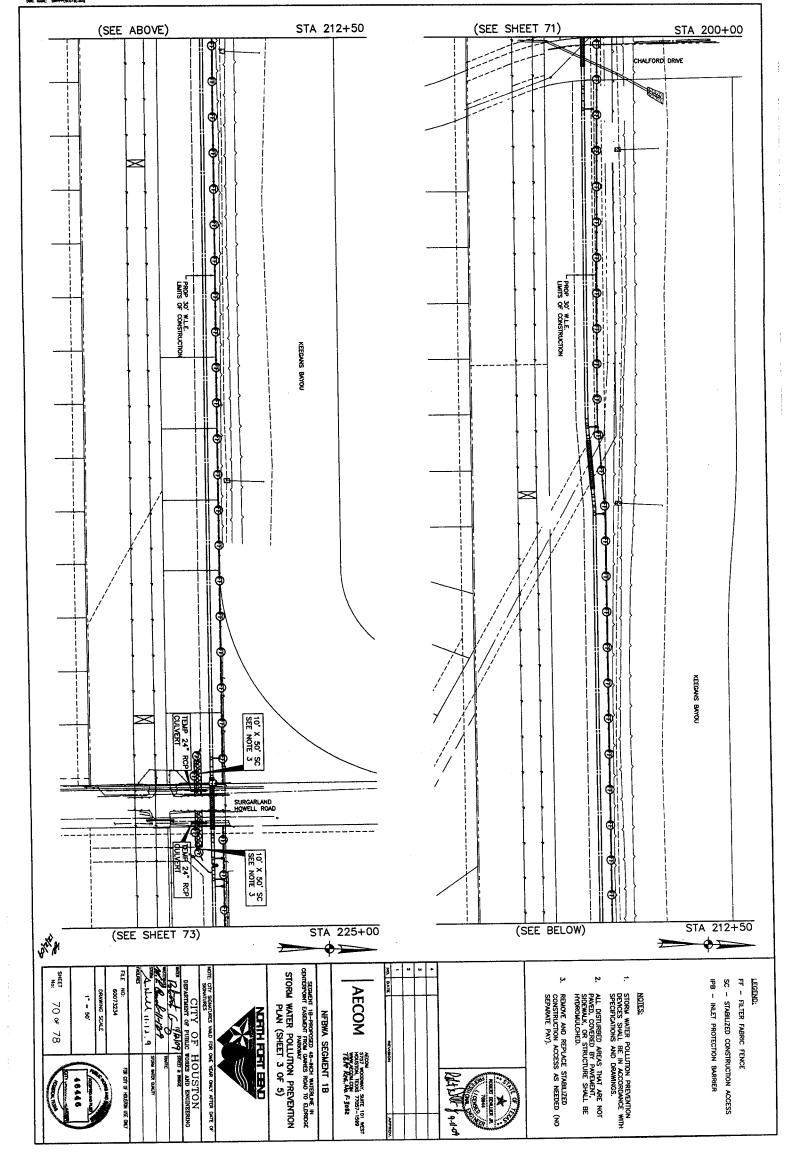


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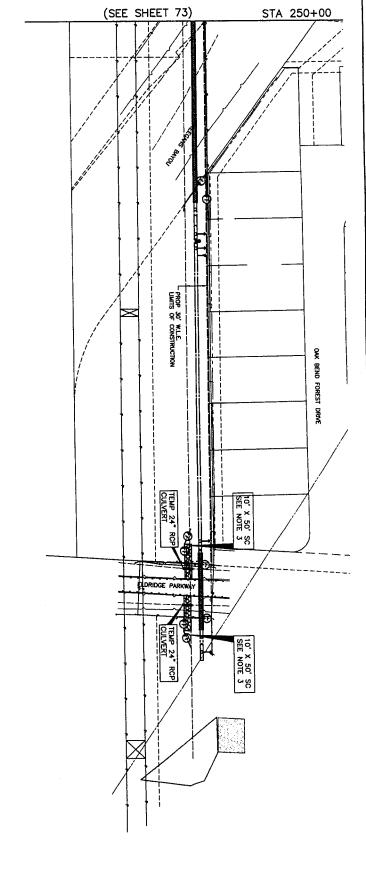




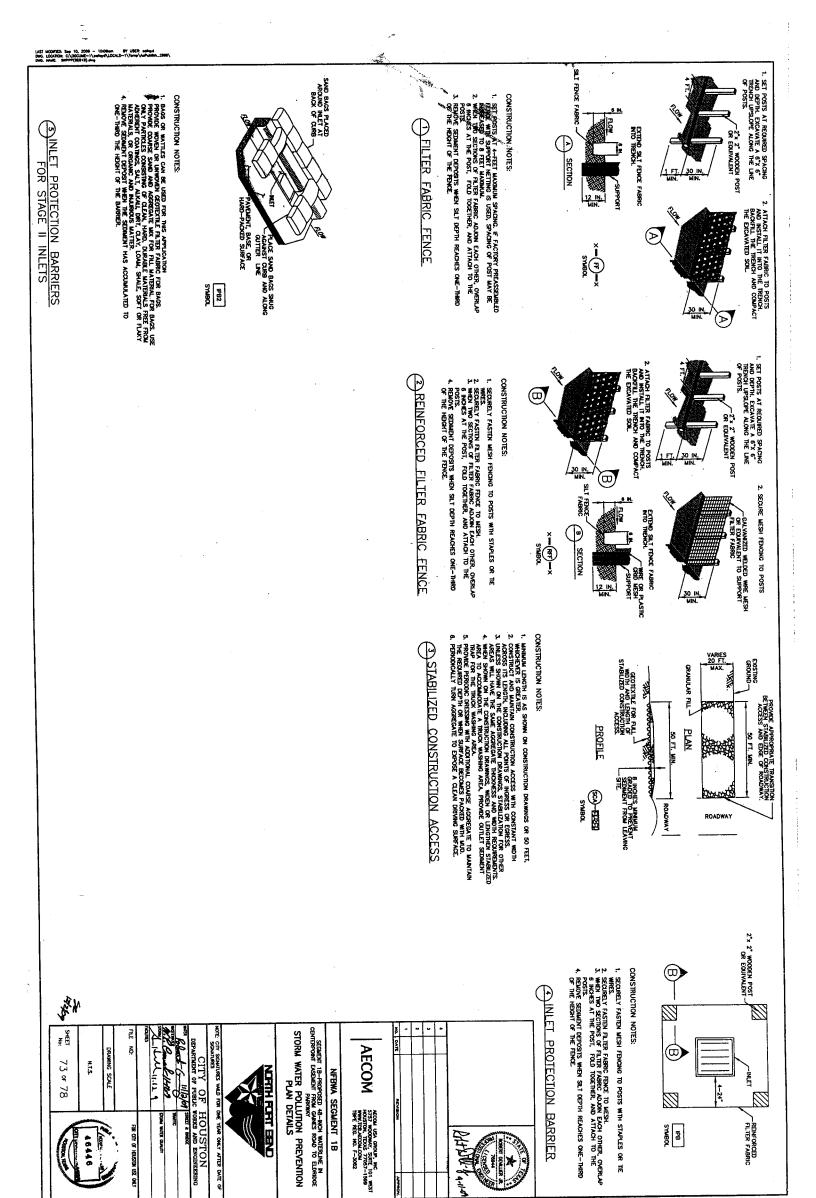


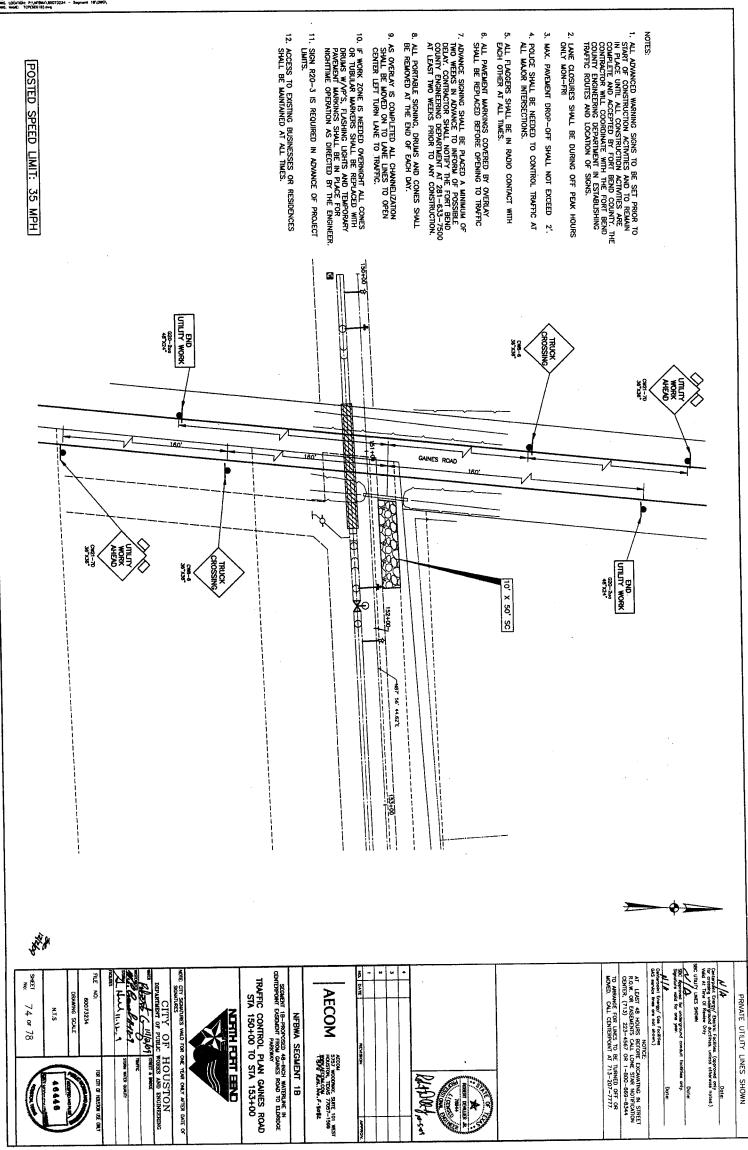


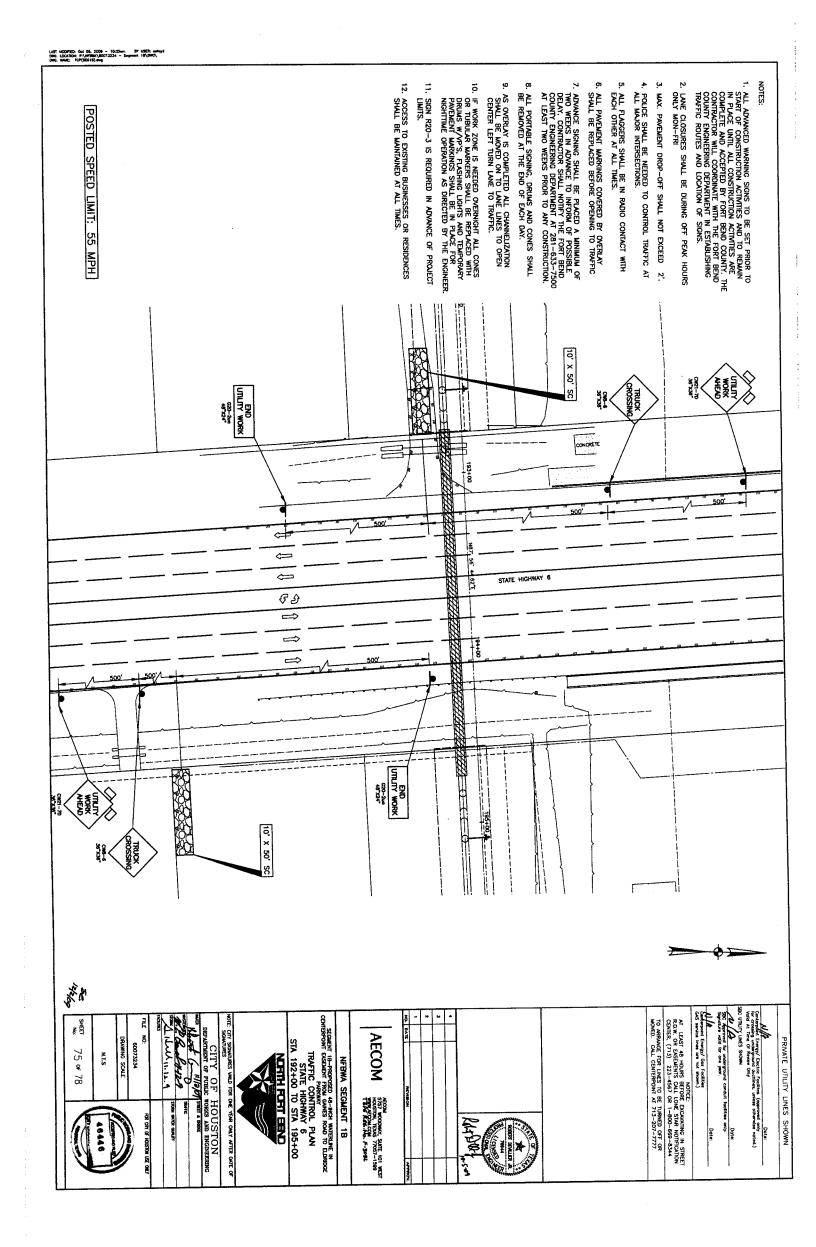




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5757 WOODWAY, SUITE 101 WEST
HOUSTON, TEXAS 77057-1599
WWY-AECOM-COM-F-3082
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