

## REVIEW BY FORT BEND COUNTY COMMISSIONERS COURT

#### Fort Bend County Engineering Department 301 Jackson Suite 401

Richmond, Texas 77469 281.633.7500 Permits@fortbendcountytx.gov

		ay Permit
	Commercial	al Driveway Permit
	Permit No: 2018-2	-22259
Applica	ant: AT&T Texas/Black & Veatch	
Job Lo	cation Site: 5034 Vancouver Boulevard, Ric	ichmond, TX 77469
Rond N	No. Date of Bond: 11/2	/28/2017 Amount: \$50,000.00
Bond N	Date of Bolid. 11/2	20/2017 Amount. \$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Laying, Roads, S Commis Texas, o	Construction, Maintenance, and Repair of Burie Streets, Highways, and Drainage Ditches in Fort ssioners Court of Fort Bend County, Texas," as p	Bend County property subject to, "The Order Regulating the led Cables, Conduits, and Pole Lines, In, Under, Across or Along t Bend County, Texas, Under the Jurisdiction of the passed by the Commissioners Court of Fort Bend County, Fort Bend County, Texas, to the extent that such order is not as and Codes Annoted.
2. V	grounds for job shutdown. Written notices are required: a. 48 hours in advance of construction	and ready for final inspection, submit notification to Permit ntOnline.org portal.
Commis notice o		and carried, it is ORDERED, ADJUDGED AND DECREED that sa by the Commissioners Court of Fort Bend County, Texas, and
Signatu	ire / /	Presented to Commissioners Court and approved.
Ву: _	San Eghten	Date Recorded 8-17-29 Comm. Court No. 10A
	County Engineer	Clerk of Commissioners Court  By:



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

## **Fort Bend County**

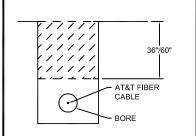
Engineering Department 301 Jackson Suite 401 Richmond, Texas 77469 281.633.7500 Permits@fortbendcountytx.gov

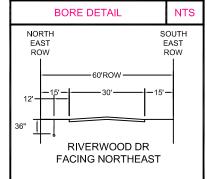
The state of the s	Right of Way Permit		
	Commercial Driveway P	ermit	
P	ermit No: 2018-22259		
		activity in Fort Bend County" and accompa priate regulations set by Commissioner's C	
(1) COMPLETE APPLICATION FORM:			
χ a. Name of road, stree	t, and/or drainage ditch affec	ted.	
X b. Vicinity map showing	g course of directions		
X c. Plans and specification	ons		
(2) BOND:			
County Attorney, approapplicable.	oval when		
X Perpetual bond current posted.	Bond No:	Amount: \$50,000.00	
Performance bond sub	mitted. Bond No:	Amount:	
Cashier's Check	Check No:	Amount:	
(3) DRAINAGE DISTRICT APPROVA	AL (WHEN APPLICABLE):		
Drainage District Approval		Date	
We have reviewed this project and a	gree it meets minimum requ	uirements.	
Lan Eghten		8/6/2018	
Permit Administrator		Date	

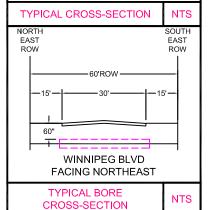
DESIGN ENGINEER CONTACT:
AARON GREWING
BLACK & VEATCH
(469) 914-4150
GREWINGA@BV.COM

FORT BEND COUNTY PERMIT # SHOWN ON PRINT 3, 4, 5

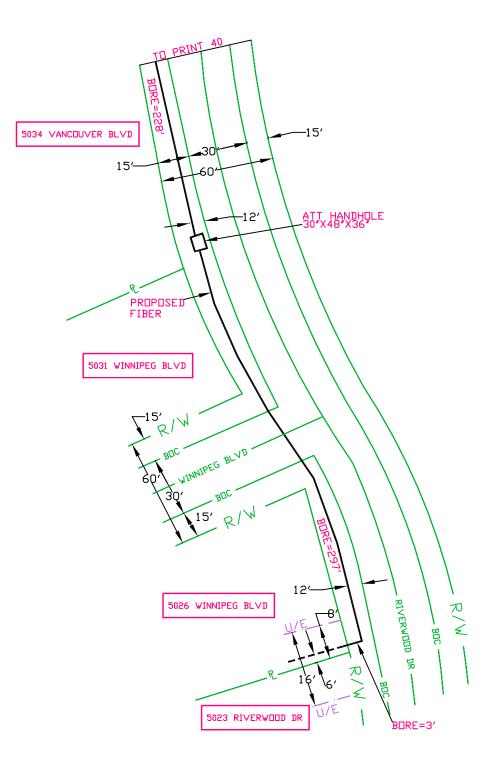
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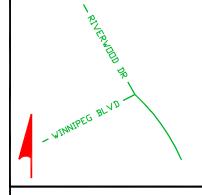




#### FORT BEND COUNTY NOTIFICATION



 $-- \mbox{Proprietary} --$  Not for use or disclosure outside the AT&T companies except under written agreement.



APPROXIMATE LOCATION MAP

WORK DONE IN FORT BEND COUNTY RIGHT OF WAY - PRINT FOR INFORMATIONAL PURPOSES ONLY SPECIAL CIRCUITS

6203 FORWARDED PERMIT

**REQUIRED** 

NORTH ARROW

OPERATING RANGE OF JOB STEPS

TASK \_\_\_\_\_ TO \_\_\_\_

MFRC

TRANSMISSION ZONE

RZ 0 CZ 0 TAPER CODE 1604PA

CAUTION HIGH VOLTAGE KV 0,00 AERIAL N BURIED N

HIGHWAY PERMIT NO.

Utility CO REP NAME REP TEL NO.

| REP\_TEL\_NO. | POLE\_CONTACTS (+)<mark>0</mark> (-)<mark>0</mark>

Utility CO REP NAME REP TEL NO.

POLE CONTACTS (+) 0

0 (-)0

Utility CO REP NAME REP TEL NO.

POLE CONTACTS (+)

(-) <mark>0</mark>

PRINT NO.39

### PROJECT NO A01A6ZD

TOT.PRINTS 49

NPA/NNX: 281-232 PRT:281232

EXCH. RICH-ROSE

TAX DIST. FG051
GEO LOC. W89232

ENGR. CTB

DRAWN<mark>CG</mark>

TELEPHONE NO. (713) 943-4935

REC. REF. MAP REF. 605E

SCALE NONE

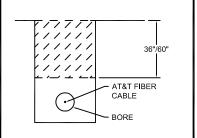
ISSUE DATE

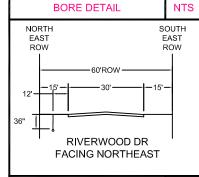
PROJ TITLE LIGHTGIG-1604PA-DIST-RR

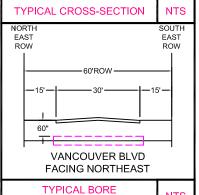
DESIGN ENGINEER CONTACT:
AARON GREWING
BLACK & VEATCH
(469) 914-4150
GREWINGA@BV.COM

FORT BEND COUNTY PERMIT # SHOWN ON PRINT 20, 21

DESIGN SUMMARY: -BORE AND PLACE FIBER

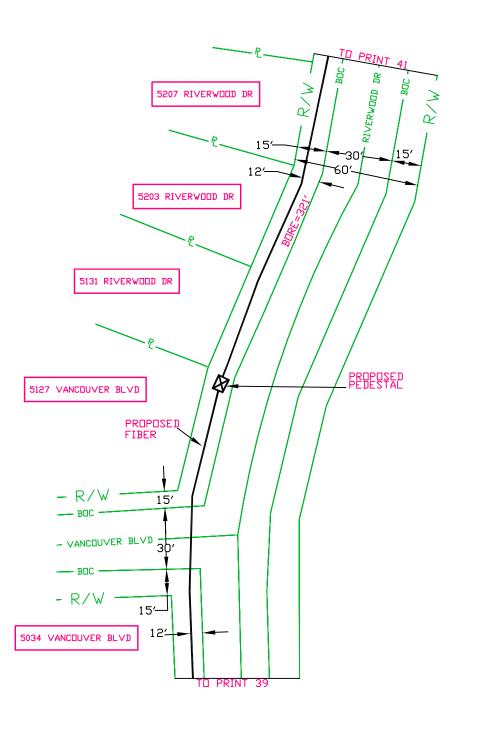


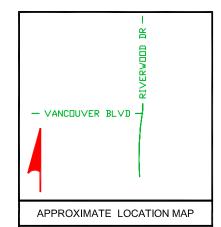




**CROSS-SECTION** 

#### FORT BEND COUNTY NOTIFICATION





WORK DONE IN FORT BEND COUNTY RIGHT OF WAY - PRINT FOR INFORMATIONAL PURPOSES ONLY SPECIAL
CIRCUITS

6203
FORWARDED

PERMIT
REQUIRED

OPERATING RANGE

	*
//-	_ / `
NORTH	ARROW

OPERATING RANGE OF JOB STEPS

TASK \_\_\_\_\_ TO \_\_\_\_

MFRC

TRANSMISSION ZONE
RZ 0 CZ 0 TAPER CODE 1604PA

CAUTION HIGH VOLTAGE

KV 0.00 AERIAL N BURIED N

HIGHWAY PERMIT NO.

Utility CO
REP NAME
REP TEL NO.
POLE CONTACTS (+) 0 (-) 0

Utility CO
REP NAME
REP TEL NO.
POLE CONTACTS (+) 0 (-) 0

Utility CO
REP NAME
REP TEL NO.
POLE CONTACTS (+) 0 (-) 0

### PROJECT NO A01A6ZD

TOT.PRINTS 49 PRINT NO. 40 PRT:281232 PRT:281232 PXCH. RICH-RDSE TAX DIST. FG051 GEO LOC. W89232

ENGR. CTB DRAWNCG
TELEPHONE NO. (713) 943-4935

REC. REF.
MAP REF. 605E
SCALE NONE
ISSUE DATE

PROJ TITLE LIGHTGIG-1604PA-DIST-RR

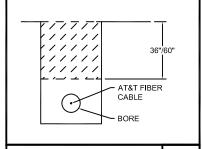
REV. NUMBER DATE REV.

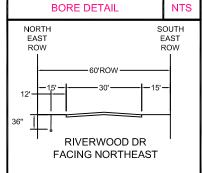
 $-- Propriet {\tt ary--}\\ {\tt Not for use or disclosure outside the AT&T companies except under written agreement.}$ 

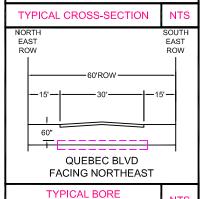
DESIGN ENGINEER CONTACT:
AARON GREWING
BLACK & VEATCH
(469) 914-4150
GREWINGA@BV.COM

FORT BEND COUNTY PERMIT # SHOWN ON PRINT 21, 32

DESIGN SUMMARY: -BORE AND PLACE FIBER

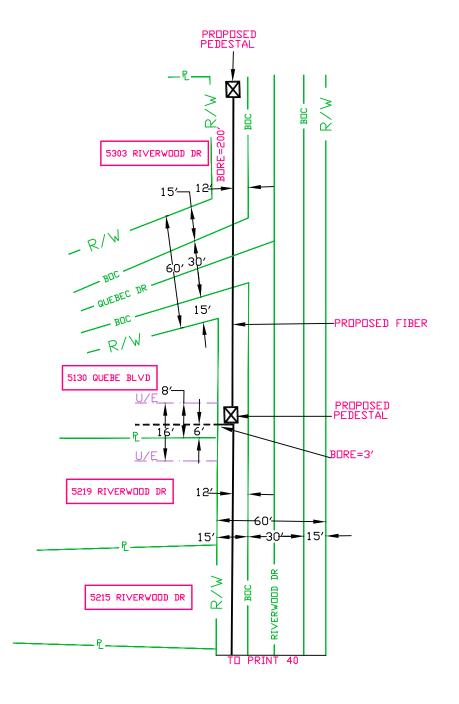






**CROSS-SECTION** 

#### FORT BEND COUNTY NOTIFICATION



QUEBEC DR

WINDERSTRIP

WINDERSTRIP

APPROXIMATE LOCATION MAP

WORK DONE IN FORT BEND COUNTY RIGHT OF WAY - PRINT FOR INFORMATIONAL PURPOSES ONLY SPECIAL
CIRCUITS N
6203
FORWARDED N
PERMIT
REQUIRED NORTH ARROW

OPERATING RANGE OF JOB STEPS

TASK \_\_\_\_\_ TO \_\_\_\_

MFRC

RZ O CZ O TAPER CODE 1604PA

TRANSMISSION ZONE

CAUTION HIGH VOLTAGE KV 0.00 AERIAL N BURIED N

HIGHWAY PERMIT NO.

Utility CO
REP NAME
REP TEL NO.
POLE CONTACTS (+) 0 (-) 0

Utility CO
REP NAME
REP TEL NO.
POLE CONTACTS (+) 0 (-) 0

Utility CO

Utility CO
REP NAME
REP TEL NO.
POLE CONTACTS (+) 0 (-) 0

## PROJECT NO A01A6ZD

TOT.PRINTS 49 PRINT NO. 41
NPA/NNX: 281-232 PRT:281232
EXCH. RICH-RUSE
TAX DIST. FG051
GEO LOC. W89232
ENGR. CTB DRAWNCG

TELEPHONE NO. (713) 943-4935
REC. REF.

MAP REF. 605E SCALE NONE ISSUE DATE

PROJ TITLE LIGHTGIG-1604PA-DIST-RR

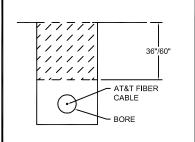
REV. NUMBER DATE REV.

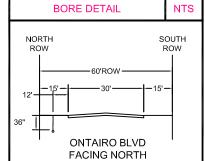
-- Proprietary-- Not for use or disclosure outside the AT&T companies except under written agreement.

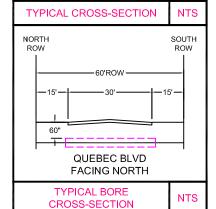
DESIGN ENGINEER CONTACT: AARON GREWING **BLACK & VEATCH** (469) 914-4150 GRÈWIŃGA@BV.COM

FORT BEND COUNTY PERMIT # SHOWN ON PRINT 26, 27

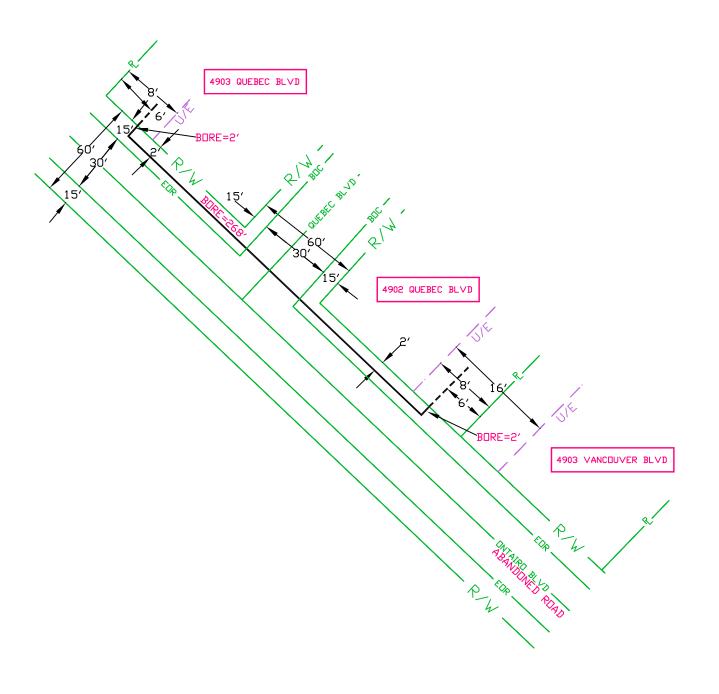
DESIGN SUMMARY: -BORE AND PLACE FIBER



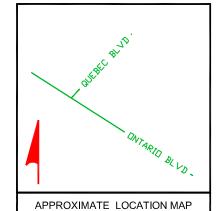




#### FORT BEND COUNTY NOTIFICATION



 $-- Propriet \\ \text{ary--} \\ \text{Not for use or disclosure outside the AT&T companies except under written agreement.} \\$ 

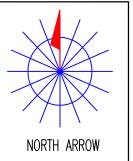


WORK DONE IN FORT BEND COUNTY RIGHT OF WAY - PRINT FOR INFORMATIONAL PURPOSES ONLY

**CIRCUITS** 

6203 **FORWARDED** 

**PERMIT REQUIRED** 



OPERATING RANGE OF JOB STEPS

TO \_\_\_\_ TASK \_\_\_\_

MFRC

TRANSMISSION ZONE

TAPER CODE 1604PA RZ 0

CAUTION HIGH VOLTAGE BURIED N aerial N KV 0,00

HIGHWAY PERMIT NO.

Utility CO REP NAME REP TEL NO.

POLE CONTACTS (+)0  $(-)_{0}$ 

Utility CO
REP NAME
REP TEL NO.
POLE CONTACTS (+) 0

 $(-)_{0}$ 

Utility CO REP NAME REP TEL NO.

POLE CONTACTS (+)

PROJECT NO A01A6ZD

TOT.PRINTS 49

PRINT NO. 42 NPA/NNX: 281-232 PRT:281232

 $(-)_{0}$ 

EXCH. RICH-ROSE

TAX DIST. FG051

GEO LOC. W89232

ENGR. CTB DRAWNCG

TELEPHONE NO. (713) 943-4935

REC. REF. MAP REF. 605E

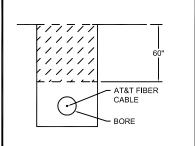
SCALE NONE ISSUE DATE

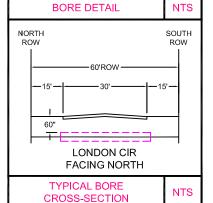
PROJ TITLE LIGHTGIG-1604PA-DIST-RR

DESIGN ENGINEER CONTACT: AARON GREWING **BLACK & VEATCH** (469) 914-4150 GRÈWIŃGA@BV.COM

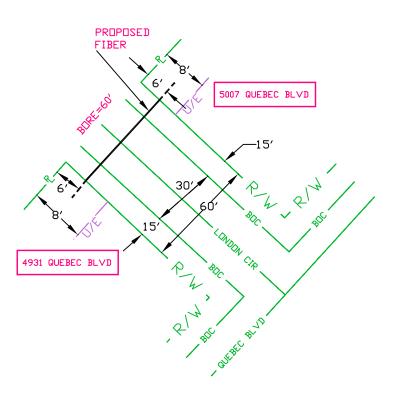
FORT BEND COUNTY PERMIT # SHOWN ON PRINT 27 & 28

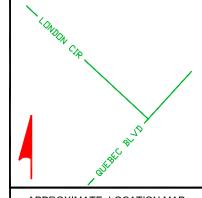
DESIGN SUMMARY: -BORE AND PLACE FIBER





### FORT BEND COUNTY NOTIFICATION





APPROXIMATE LOCATION MAP

WORK DONE IN FORT BEND COUNTY RIGHT OF WAY - PRINT FOR INFORMATIONAL PURPOSES ONLY

**CIRCUITS** 

6203 FORWARDED **PERMIT** 

**REQUIRED** 

NORTH ARROW

OPERATING RANGE OF JOB STEPS

TASK \_\_\_\_ TO \_\_\_\_

MFRC

TRANSMISSION ZONE

RZ 0 TAPER CODE 1604PA

CAUTION HIGH VOLTAGE

BURIED N aerial N KV 0,00

HIGHWAY PERMIT NO.

Utility CO REP NAME REP TEL NO.

POLE CONTACTS (+)0  $(-)_{0}$ 

Utility CO REP NAME REP TEL NO.

POLE CONTACTS (+)0

 $(-)_{0}$ 

 $(-)_{0}$ 

Utility CO
REP NAME
REP TEL NO.
POLE CONTACTS (+) 0

PROJECT NO A01A6ZD

TOT.PRINTS 49 PRINT NO. 43 PRT:281232 NPA/NNX: 281-232

EXCH. RICH-ROSE

TAX DIST. FG051

GEO LOC. W89232

ENGR. CTB DRAWNCG

TELEPHONE NO. (713) 943-4935

REC. REF. MAP REF. 605E

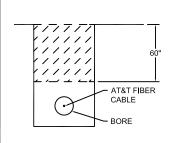
SCALE NONE ISSUE DATE

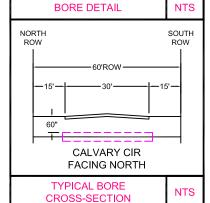
PROJ TITLE LIGHTGIG-1604PA-DIST-RR

DESIGN ENGINEER CONTACT: AARON GREWING **BLACK & VEATCH** (469) 914-4150 GRÈWINGA@BV.COM

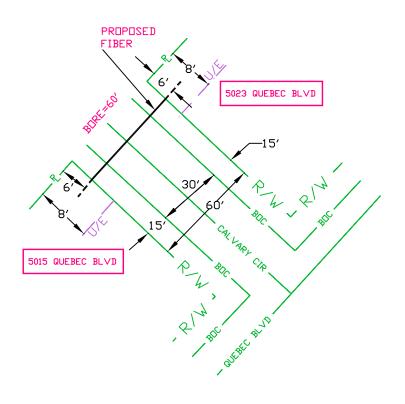
FORT BEND COUNTY PERMIT # SHOWN ON PRINT 28

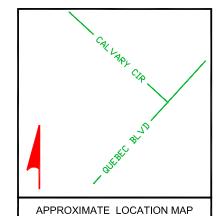
DESIGN SUMMARY: -BORE AND PLACE FIBER





### FORT BEND COUNTY NOTIFICATION





WORK DONE IN FORT BEND COUNTY RIGHT OF WAY - PRINT FOR INFORMATIONAL PURPOSES ONLY

**CIRCUITS** 

6203 FORWARDED **PERMIT** 

**REQUIRED** 

NORTH ARROW

OPERATING RANGE OF JOB STEPS

TASK \_\_\_\_ TO \_\_\_\_

MFRC

TRANSMISSION ZONE

RZ 0 TAPER CODE 1604PA

> CAUTION HIGH VOLTAGE BURIED N

aerial N KV 0.00

HIGHWAY PERMIT NO.

Utility CO REP NAME REP TEL NO.

POLE CONTACTS (+)0  $(-)_{0}$ 

Utility CO
REP NAME
REP TEL NO.
POLE CONTACTS (+) 0

 $(-)_{0}$ 

Utility CO REP NAME REP TEL NO.

POLE CONTACTS (+)

 $(-)_{0}$ 

### PROJECT NO A01A6ZD

TOT.PRINTS 49 NPA/NNX: 281-232

PRINT NO. 44 PRT:281232

EXCH. RICH-ROSE

TAX DIST. FG051

GEO LOC. W89232

ENGR. CTB DRAWNCG

TELEPHONE NO. (713) 943-4935

REC. REF. MAP REF. 605E

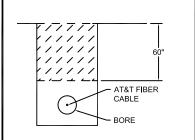
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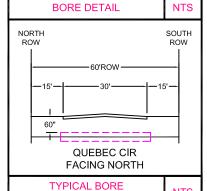
PROJ TITLE LIGHTGIG-1604PA-DIST-RR

DESIGN ENGINEER CONTACT: AARON GREWING BLACK & VEATCH (469) 914-4150 GRÈWINGA@BV.COM

FORT BEND COUNTY PERMIT # SHOWN ON PRINT 28 AND 29

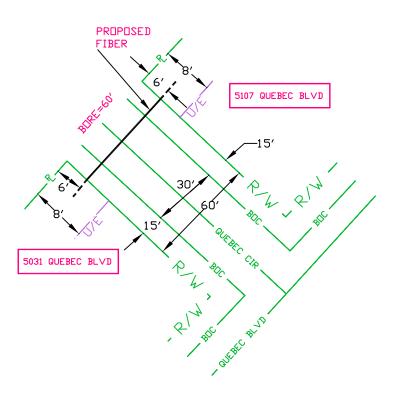
DESIGN SUMMARY: -BORE AND PLACE FIBER

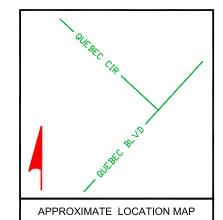




**CROSS-SECTION** 

### FORT BEND COUNTY NOTIFICATION





WORK DONE IN FORT BEND COUNTY RIGHT OF WAY - PRINT FOR INFORMATIONAL PURPOSES ONLY

**CIRCUITS** 

6203 FORWARDED **PERMIT** 

**REQUIRED** 

NORTH ARROW

OPERATING RANGE OF JOB STEPS

TASK \_\_\_\_ TO \_\_\_\_

MFRC

RZ 0

TRANSMISSION ZONE

TAPER CODE 1604PA

CAUTION HIGH VOLTAGE BURIED N

aerial N KV 0.00

HIGHWAY PERMIT NO.

Utility CO REP NAME REP TEL NO.

POLE CONTACTS (+)0  $(-)_{0}$ 

Utility CO REP NAME REP TEL NO.

POLE CONTACTS (+)0

 $(-)_{0}$ 

Utility CO REP NAME REP TEL NO.

POLE CONTACTS (+)

 $(-)_{0}$ 

### PROJECT NO A01A6ZD

TOT.PRINTS 49 NPA/NNX: 281-232

PRINT NO. 45 PRT:281232

EXCH. RICH-ROSE

TAX DIST. FG051

GEO LOC. W89232

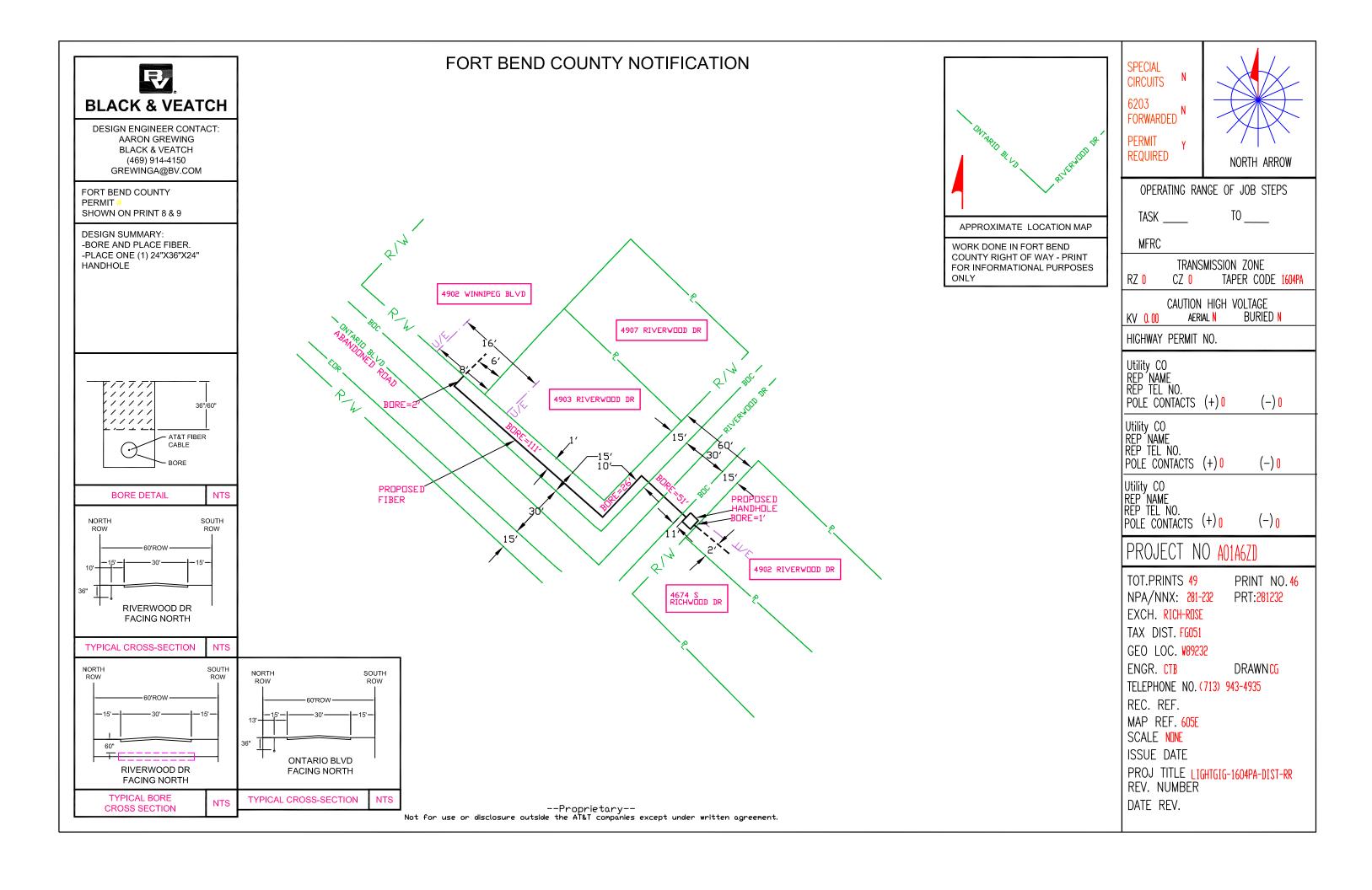
ENGR. CTB DRAWNCG

TELEPHONE NO. (713) 943-4935

REC. REF. MAP REF. 605E

SCALE NONE ISSUE DATE

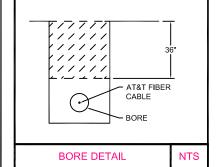
PROJ TITLE LIGHTGIG-1604PA-DIST-RR



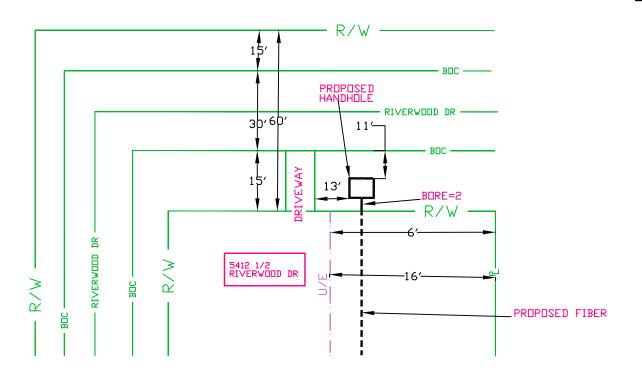
DESIGN ENGINEER CONTACT:
AARON GREWING
BLACK & VEATCH
(469) 914-4150
GREWINGA@BV.COM

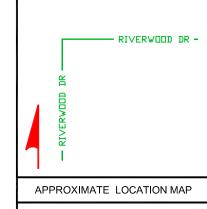
FORT BEND COUNTY PERMIT # SHOWN ON PRINT 16

DESIGN SUMMARY: -BORE AND PLACE FIBER. -PLACE ONE (1) 24"X36"X24" HANDHOLE



### FORT BEND COUNTY NOTIFICATION





WORK DONE IN FORT BEND COUNTY RIGHT OF WAY - PRINT FOR INFORMATIONAL PURPOSES ONLY SPECIAL CIRCUITS N
6203
FORWARDED N
PERMIT Y
REQUIRED NORTH ARROW

OPERATING RANGE OF JOB STEPS

TASK \_\_\_\_\_ TO \_\_\_\_

MFRC

TRANSMISSION ZONE
RZ 0 CZ 0 TAPER CODE 1604PA

CAUTION HIGH VOLTAGE
KV 0.00 AERIAL N BURIED N

HIGHWAY PERMIT NO.

Utility CO
REP NAME
REP TEL NO.
POLE CONTACTS (+) 0 (-) 0

Utility CO
REP NAME
REP TEL NO.
POLE CONTACTS (+) 0 (-) 0

Utility CO
REP NAME
REP TEL NO.
POLE CONTACTS (+) 0 (-) 0

### PROJECT NO A01A6ZD

TOT.PRINTS 49 PRINT NO.47
NPA/NNX: 281-232 PRT:281232
EXCH. RICH-ROSE
TAX DIST. FG051
GEO LOC. W89232
ENGR. CTB DRAWNCG
TELEPHONE NO. (713) 943-4935
REC. REF.

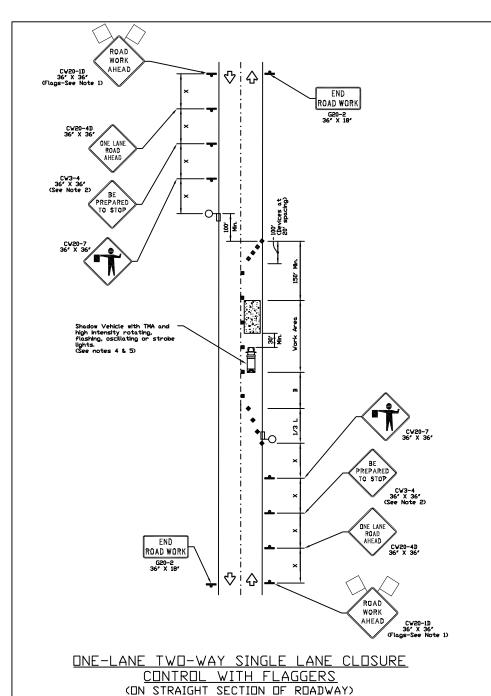
MAP REF. 605E 605F SCALE NONE

ISSUE DATE

PROJ TITLE LIGHTGIG-1604PA-DIST-RR

REV. NUMBER DATE REV.

--Proprietary--Not for use or disclosure outside the AT&T companies except under written agreement.



### TRAFFIC CONTROL PLAN SECTION SHALL BE COMPLETED BY ENGINEER

ı								
	RDADWAY	POSTED	TAPER LENGTH	CHANNE	CING LIZING ICES	SIGN SPACING	BUFFER SPACE	
ı		5, 223		TAPER	TANGENT			
	RIVERWOOD DR	30′	165′	30′	60′	120′	90`	
	WINNIPEG BLVD	30′	165′	30′	60′	120′	90′	
	VANCOUVER BLVD	30′	165′	30′	60′	120′	90′	
	QUEBEC BLVD	30′	165′	30′	60′	120′	90′	
	LONDON CIR	30′	165′	30′	60′	120′	90′	

LEGEND							
~~~	Type 3 Barricade		Channelizing Devices				
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)				
Ê	Trailer Mounted Flashing Arrow Board		Portable Changeable Message Sign (PCMS)				
4	Sign	♦	Traffic Flow				
$\overline{\alpha}$	Flag	ПО	Flagger				

Posted Speed	Formula	I	Minimum Desirable Taper Lengths "L" # #		Spac Chann	ed Maximum ing of nelizing ices	Minimum Sign Spacing "X"	Suggested Longitudinal Buffer Spac	
		10' Offset	11' Offset	12' Offset	□n a Taper	On a Tangent	Distance	'B'	
30	_ vs²	150′	165′	180′	30′	60′	120′	90'	
35	L= WS	205′	225′	245'	35`	70′	160′	120′	
40	60	265'	295′	320′	40'	80′	240'	155′	
45		450′	495′	540′	45′	90,	320′	195′	
50		500°	550°	600'	50′	100'	400°	240'	
55	L=WS	550′	605′	660′	55 <b>ʻ</b>	110'	500°	295'	
60		600'	660'	720′	60°	120'	600′	350′	
65		650′	715′	780′	65′	130′	700′	410′	
70		700'	770′	840'	70°	140′	800'	475′	
75		750′	825′	900'	75′	150′	900′	540′	

\* Conventional Roads Only

\*\* Taper lengths have been rounded off.

L=Length of Taper(FT) W=Width of Offset(FT) S=Posted Spe

#### GENERAL NOTES

PROJECT TITLE:

- GENERAL NOTES

  1. Flags attached to signs where shown are DPTIONAL.
  2. All traffic control devices illustrated are REQUIRED, except those denoted with the tringle symbol are DPTIONAL.
  3. right-of-way line and not parked in the paved shoulder.
  4. A Shadow Vehicle with a TMA should be used anytheir t can be positioned 30 to 100 feet in advance of the area of cree exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to renain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA. Additional Shadow Vehicles with TMAs may be positioned off the paved structure of the state of th

L							
	NO.	REVISIONS	DATE	NAME			FOR INTERIM REVIEW ONLY
	Λ	UPDATED DEPARTMENT NAME & GENERAL NOTES	4/16/15	BSH	FORT REND COLINTY		DOCUMENT INCOMPLETE:
					FURI DENU CUUNII		NOT INTENDED FOR CONSTRUCTION, BIDDING, OR PERMIT PURPOSES
					ENCINEERING DEPARTMENT		
					ENGINEERING DEPARTMENT		ENGINEER: NAME P.E. SERIAL No. NUMBER
Г							DATE: / /

11100201 1111	<b>-</b>	
DRAWN BY: BSH		HCED STANDARD
CK'D BY: BSH	SHEET DESCRIPTION: TRAFFIC CONTROL PLAN (ONE-LANE, TWO-WAY OPERATION)	39
SCALE: N.T.S.		SHEET NO:
DATE: 6/26/14	APPROVED BY:	/

**SPECIAL** CIRCUITS 6203 FORWARDED PERMIT REQUIRED NORTH ARROW

OPERATING	RANGE	0F	J0B	STEPS	
TASK		Ţ	o		
MFRC					
TRA	ANSMISS	ION	70N	F	

TAPER CODE 1604PA

CAUTION HIGH VOLTAGE BURIED N aerial <mark>N</mark> KV 0.00

HIGHWAY PERMIT NO.

RZ 0

Utility CO		
REP NAME		
Utility CO REP NAME REP TEL NO. POLE CONTACTS	(+) <mark>(</mark>	(-) <mark>0</mark>

Utility CO REP NAME REP TEL NO.  $(-)_{0}$ POLE CONTACTS (+)

Utility CO REP NAME REP TEL NO. POLE CONTACTS (+)  $(-)_{0}$ 

### PROJECT NO A01A6ZD

TOT.PRINTS 49 PRINT NO. 48 NPA/NNX: 281-232 PRT:281232

EXCH. RICH-ROSE TAX DIST. FG051

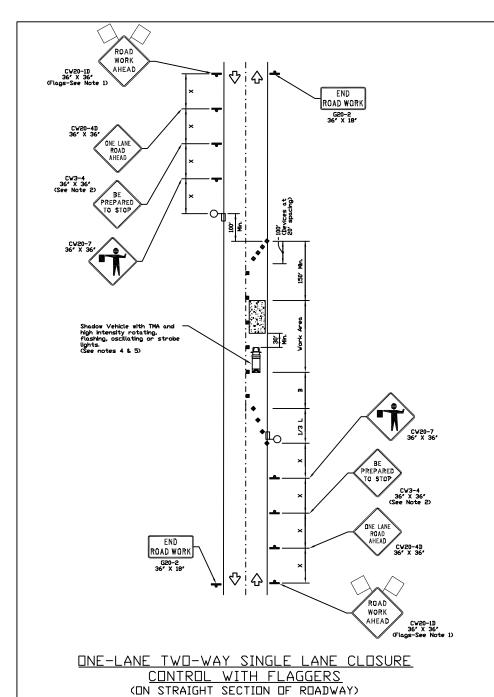
GEO LOC. W89232

ENGR. CTB DRAWNCG TELEPHONE NO. (713) 943-4935

REC. REF. MAP REF.

SCALE NONE ISSUE DATE

PROJ TITLE LIGHTGIG-1604PA-DIST-RR



DATE NAME

REVISIONS

UPDATED DEPARTMENT NAME & GENERAL NOTES 4/16/15 BSH

RDADWAY	POSTED	TAPER LENGTH	CHANNE	CING LIZING ICES	SIGN SPACING	BUFFER SPACE	
	G, LL2		TAPER	TANGENT		G. 1.02	
CALVARY CIR	30′	165′	30′	60′	120′	90′	
QUEBEC CIR	30′	165′	30′	60′	120′	90′	
	·		·			·	

	LEGE	ND	
	Type 3 Barricade	••	Channelizing Devices
口中	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)
Ê	Trailer Mounted Flashing Arrow Board	<b>(3)</b>	Portable Changeable Message Sign (PCMS)
4	Sign	♡	Traffic Flow
Q	Flag	Ф	Flagger

Posted Speed	Formula	Minimum Desirable Taper Lengths "L" * *			Spac Chann	ed Maximur ing of nelizing ices	Minimum Sign Spacing "X"	Suggested Longitudinal Buffer Space	
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent	Distance	'B'	
30	2	150′	165′	180′	30′	60′	120′	90′	
35	L= <u>WS<sup>2</sup></u>	205'	225'	245'	35′	70′	160′	120′	
40		265'	295′	320′	40'	80′	240'	155′	
45	L=WS	450′	495′	540′	45′	90,	320′	195′	
50		500°	550′	600'	50′	100'	400′	240'	
55		550′	605′	660′	55 <b>ʻ</b>	110'	500°	295′	
60		600'	660'	720′	60°	120'	600′	350′	
65		650′	715′	780′	65′	130′	700′	410′	
70	l	700'	770′	840'	70°	140′	800'	475′	
75	l	750′	825'	900'	75′	150′	900′	540′	

\* Conventional Roads Only

\*\* Taper lengths have been rounded off. L=Length of Taper(FT) W=Width of Offset(FT) S=Posted Spe

FOR INTERIM REVIEW ONLY

PROJECT THE	E:	
DRAWN BY: BSH		HCED STANDARD
CK'D BY: BSH	SHEET DESCRIPTION: TRAFFIC CONTROL PLAN (ONE-LANE, TWO-WAY OPERATION)	39
SCALE: N.T.S.		SHEET NO
DATE: 6/26/14	APPROVED BY:	/

TRAFFIC CONTROL PLAN SECTION SHALL BE COMPLETED BY ENGINEER

RDADWAY	ALVARY CIR 30' 165' 30' 60' 120' (		CHANNELIZING			BUFFER SPACE	
		OI FIOL					
CALVARY CIR	30′	165′	30′	60′	120′	90′	
QUEBEC CIR	30′	165′	30′	60′	120′	90′	

		_Ip	Heavy Work Vehicle Trailer Mounted Flashing Arrow Board Sign							Truck Mounted Attenuator (TMA)			
										Portable Changeable Message Sign (PCMS)			
		4						♡	Traffk	Flow			
	•	$\overline{\alpha}$	Fl	Flag				ц	Flagger	Flagger			
					Minimum		6		al Masslesse				
osted Speed #		Formula		Desirable			Spaci	ed Maximur Ing of Nelizing Ices	Minimum Sign Spacing "X"	Suggested Longitudinal Buffer Space		ļ	
				10' Offset	11' Offset	12' Offset		In a aper	On a Tangent	Distance	'B'		

#### GENERAL NOTES

GENERAL NOTES

1. Flags attached to signs where shown are OPTIONAL.

2. All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol are DPTIONAL.

3. Inactive work vehicles or other equipment should be parked near the right-of-way line and not parked on the paved shoulder.

4. A Shadow Vehicle with a TMA should be used enrythen it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to renain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA. Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown in order to protect wider work spaces. Contractor shall provide and install traffic control devices in Control to 150 control traffic.

8. Length of work space should be based on the ability of flaggers to convunicate.

18 the work space is located near horizontal or vertical curve, the

to control traffic.

6. Length of work space should be based on the ability of flaggers to consunicate.

9. If the work space is located near horizontal or vertical curve, the buffer distances should be increased in order to maintain adequate stopping sight distances to the flogger and a queue of stopped vehicles (see table above).

10. Charnelling devices on the center-line may be onlitted when a pilot car is leading traffic and approved by the Engineer.

11. Flaggers should use 24' STUP-SILW paddles to control traffic. Flags should be limited to energency situations.

12. No lanes shall be blocked from 7am to 9am and 4pm to 6:30pm Monday thru Friday.

13. Off duty like within 400 feet from a signalized intersection, the contractor shall contact tharfis County Engineering Department, Traffic Signal Maintenance at (713) 881-3210 five (5) days prior to the start of construction.

 $-- Propriet \\ \text{ary--} \\ \text{Not for use or disclosure outside the AT&T companies except under written agreement.} \\$ 

FORT BEND COUNTY

ENGINEERING DEPARTMENT

**SPECIAL** CIRCUITS

> 6203 FORWARDED

PERMIT **REQUIRED** 



OPERATING RANGE OF JOB STEPS

TO \_\_\_\_ TASK \_\_\_\_

MFRC

RZ 0

TRANSMISSION ZONE CZ 0 TAPER CODE 1604PA

CAUTION HIGH VOLTAGE

aerial N BURIED N KV 0.00

HIGHWAY PERMIT NO.

Utility CO REP NAME REP TEL NO.

POLE CONTACTS (+) (-) 0

Utility CO REP NAME REP TEL NO.  $(-)_{0}$ POLE CONTACTS (+)

Utility CO REP NAME REP TEL NO. POLE CONTACTS (+)  $(-)_{0}$ 

PROJECT NO A01A6ZD

TOT.PRINTS 49 PRINT NO. 49

NPA/NNX: 281-232 PRT:281232 EXCH. RICH-ROSE

TAX DIST. FG051 GEO LOC. W89232

ENGR. CTB DRAWNCG

TELEPHONE NO. (713) 943-4935

REC. REF. MAP REF.

SCALE NONE ISSUE DATE

PROJ TITLE LIGHTGIG-1604PA-DIST-RR