



**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

Right of Way Permit

Commercial Driveway Permit

Permit No: 2017-17488

Applicant: AT&T Texas/Black & Veatch

Job Location Site: 16202 Paso Dobble Drive, Houston, TX 77083

Bond No. **Date of Bond:** 11/28/2017 **Amount:** \$50,000.00

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


Notes:

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

On this 2nd day of January, 2018, Upon Motion of Commissioner _____, seconded by Commissioner _____, duly put and carried, it is ORDERED, ADJUDGED AND DECREED that said notice of said above purpose is hereby acknowledged by the Commissioners Court of Fort Bend County, Texas, and that said notice be placed on record according to the regulation order thereof.

Signature

Presented to Commissioners Court and approved.

By: 
County Engineer

Date Recorded _____ Comm. Court No. _____

By: N/A
Drainage District Engineer/Manager

Clerk of Commissioners Court

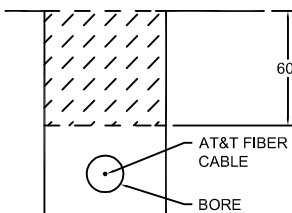
By: _____
Deputy

BLACK & VEATCH

DESIGN ENGINEER CONTACT:
CHRISTOPHER ZUCK
BLACK & VEATCH
(913) 458-2368
ZUCKC@BV.COM

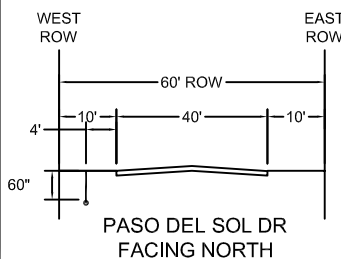
FORT BEND COUNTY
PERMIT #
SHOWN ON PRINT #

DESIGN SUMMARY:
-BORE 133' WEST FROM PED TO POLE.
-BORE 38' NORTH FROM PI TO POLE.
-BORE 113' SOUTH FROM PED TO POLE.



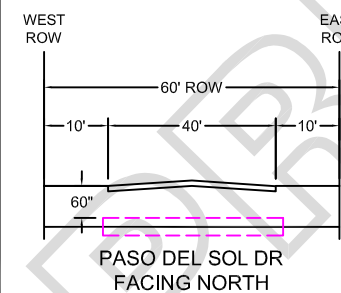
BORE DETAIL

NTS



TYPICAL CROSS-SECTION

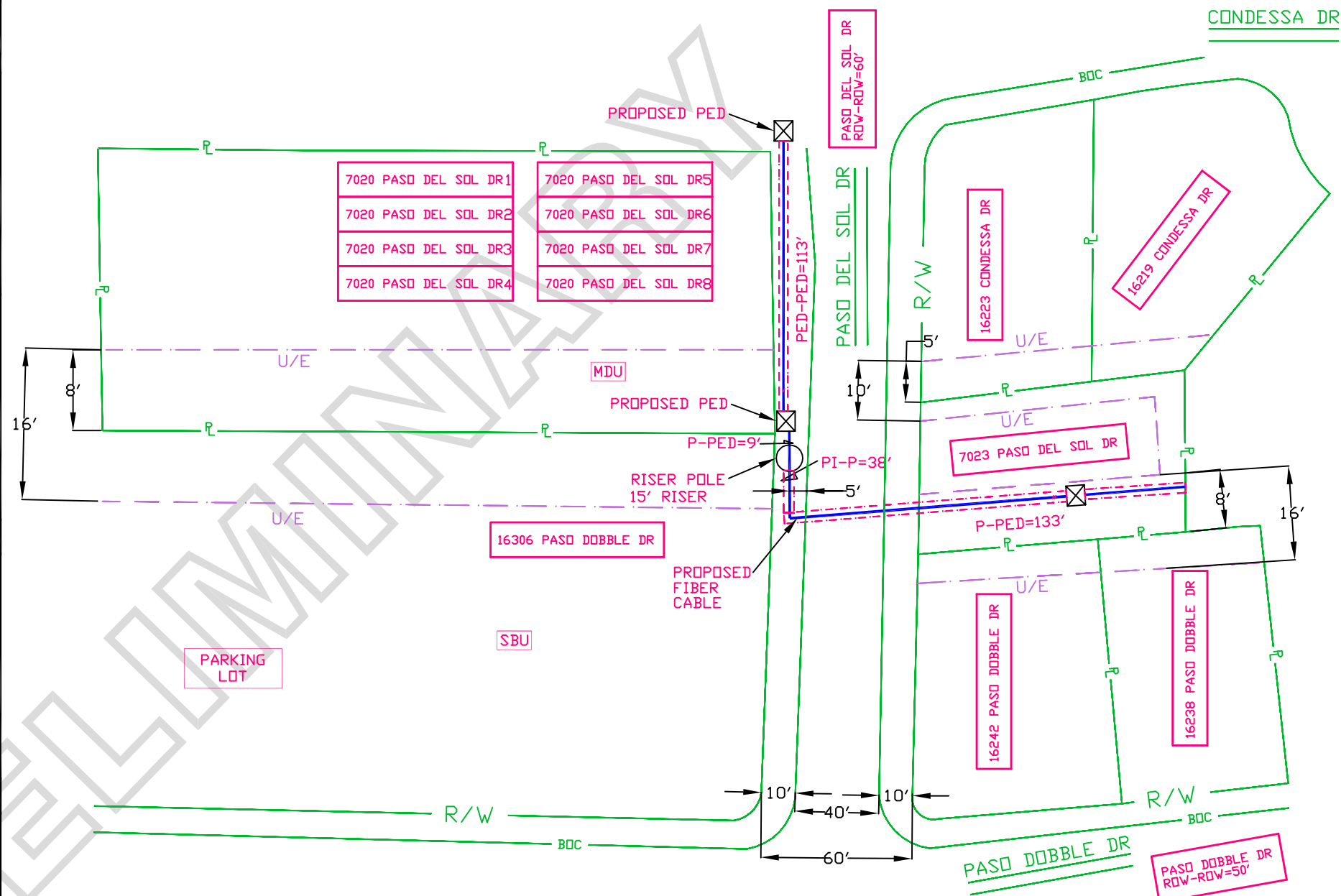
NTS



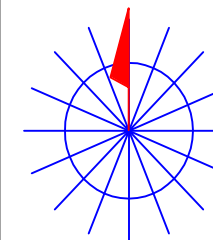
TYPICAL BORE CROSS-SECTION

NTS

FORT BEND COUNTY NOTIFICATION



SPECIAL CIRCUITS N
6203 FORWARDED N
PERMIT REQUIRED Y



NORTH ARROW

OPERATING RANGE OF JOB STEPS

TASK _____ TO _____

MFRC

TRANSMISSION ZONE
RZ 0 CZ 0 TAPER CODE 1180LB

CAUTION HIGH VOLTAGE
KV 0.00 AERIAL N BURIED Y

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 A00XB8V

TOT.PRINTS 0 PRINT NO. 100
NPA/NNX: 281-498 PRT:281498

EXCH. ALIEF
TAX DIST. FG113
GEO LOC. W85498

ENGR. RH DRAWN AP
TELEPHONE NO. (281) 224-8741

REC. REF.
MAP REF. 527K
SCALE NONE
ISSUE DATE
PROJ TITLE LIGHTGIG-1180LB-DIST-AF
REV. NUMBER

DATE REV.

--Proprietary--

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

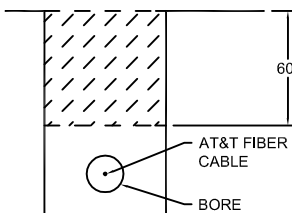


BLACK & VEATCH

DESIGN ENGINEER CONTACT:
CHRISTOPHER ZUCK
BLACK & VEATCH
(913) 458-2368
ZUCKC@BV.COM

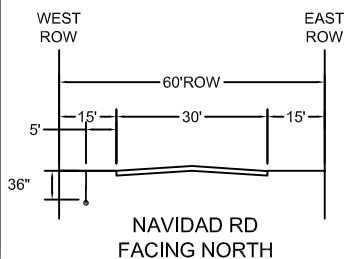
FORT BEND COUNTY
PERMIT #
SHOWN ON PRINT #

DESIGN SUMMARY:
-PLACE (1) PFP CABINET ON (1)
55"X50"X4" POUR IN PLACE
CONCRETE PAD.
-BORE 260' SOUTH FROM PFP
TO PI.



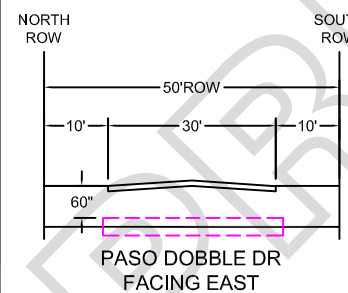
BORE DETAIL

NTS



TYPICAL CROSS-SECTION

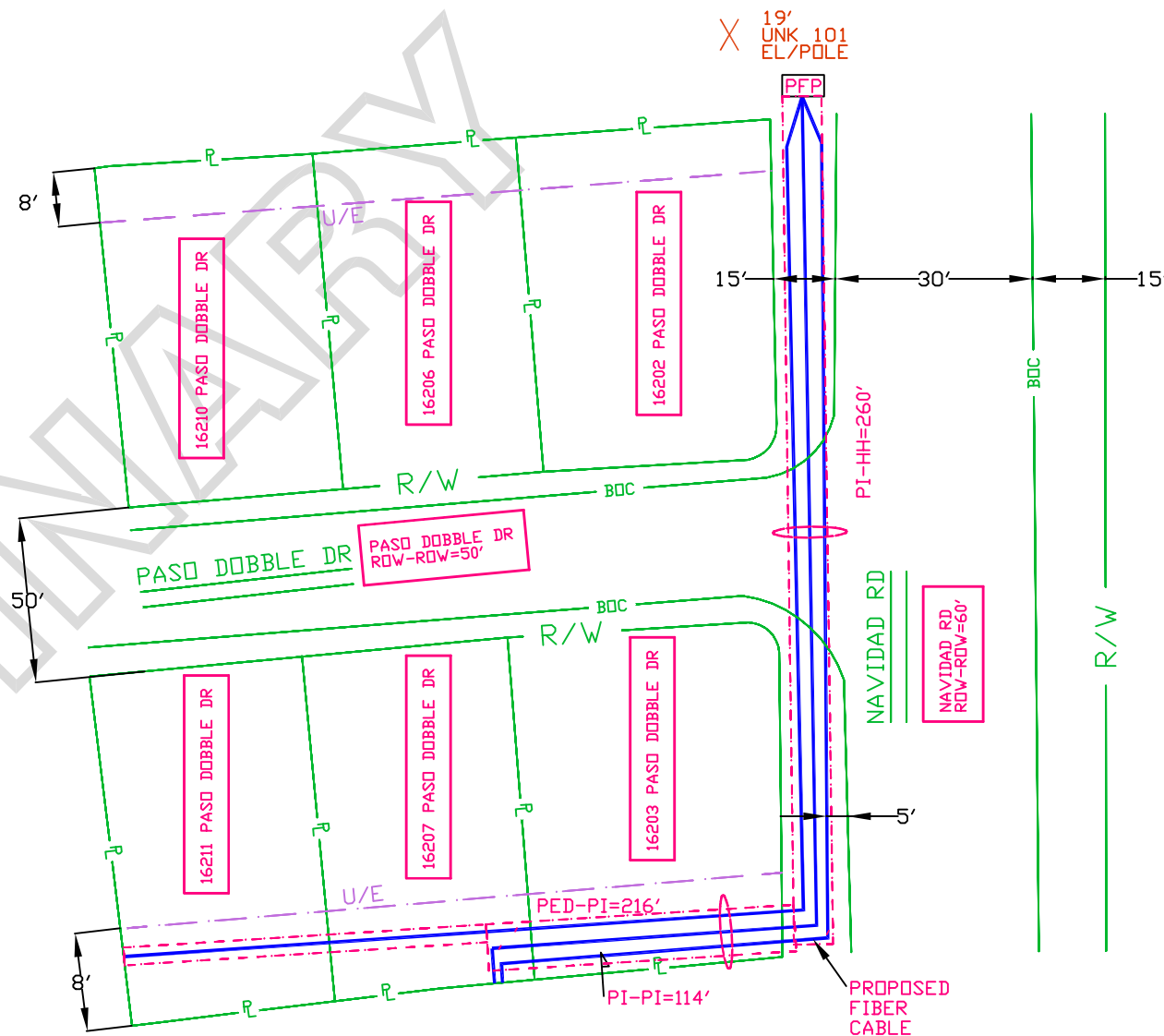
NTS



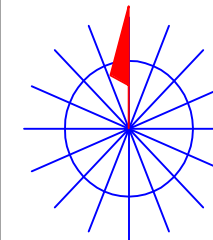
TYPICAL BORE
CROSS-SECTION

NTS

FORT BEND COUNTY NOTIFICATION



SPECIAL
CIRCUITS N
6203
FORWARDED N
PERMIT
REQUIRED Y



NORTH ARROW

OPERATING RANGE OF JOB STEPS

TASK _____ TO _____

MFRC

TRANSMISSION ZONE
RZ 0 CZ 0 TAPER CODE 1180LB

CAUTION HIGH VOLTAGE
KV 0.00 AERIAL N BURIED Y

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 A00XB8V

TOT.PRINTS 0 PRINT NO. 101

NPA/NNX: 281-498 PRT:281498

EXCH. ALIEF

TAX DIST. FG113

GEO LOC. W85498

ENGR. RH

DRAWN AP

TELEPHONE NO. (281) 224-8741

REC. REF.

MAP REF. 527F 527K

SCALE NONE

ISSUE DATE

PROJ TITLE LIGHTGIG-1180LB-DIST-AF

REV. NUMBER

DATE REV.

--Proprietary--

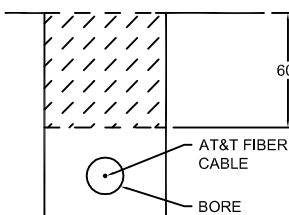
Not for use or disclosure outside the AT&T companies except under written agreement.

BLACK & VEATCH

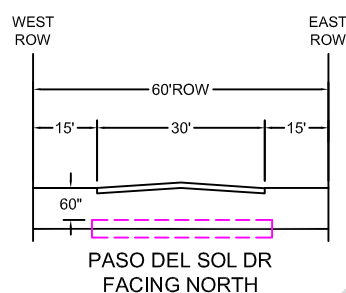
DESIGN ENGINEER CONTACT:
CHRISTOPHER ZUCK
BLACK & VEATCH
(913) 458-2368
ZUCKC@BV.COM

FORT BEND COUNTY
PERMIT #
SHOWN ON PRINT #

DESIGN SUMMARY:
-BORE 215' EAST FROM PED
TO PED.

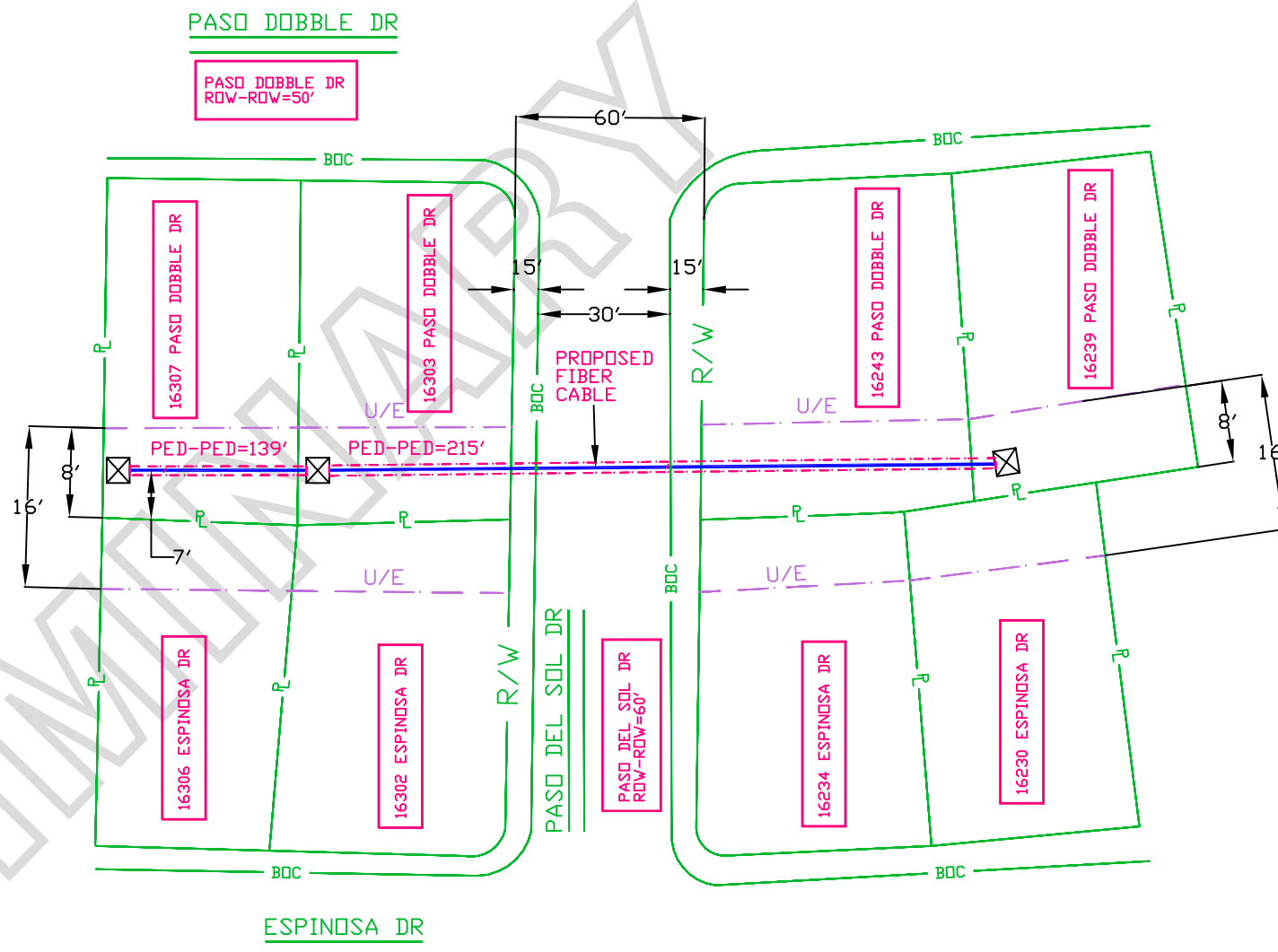


BORE DETAIL NTS

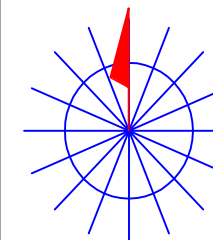


TYPICAL BORE CROSS-SECTION NTS

FORT BEND COUNTY NOTIFICATION



SPECIAL CIRCUITS N
6203 FORWARDED N
PERMIT REQUIRED Y



NORTH ARROW

OPERATING RANGE OF JOB STEPS

TASK _____ TO _____

MFRC

TRANSMISSION ZONE
RZ 0 CZ 0 TAPER CODE 1180LB

CAUTION HIGH VOLTAGE
KV 0.00 AERIAL N BURIED Y

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 A00XB8V

TOT.PRINTS 0 PRINT NO. 102
NPA/NNX: 281-498 PRT:281498

EXCH. ALIEF
TAX DIST. FG113
GEO LOC. W85498

ENGR. RH DRAWN AP
TELEPHONE NO. (281) 224-8741

REC. REF.
MAP REF. 527K
SCALE NONE

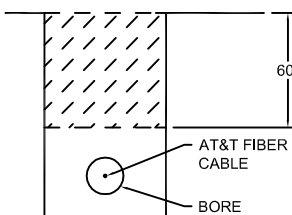
ISSUE DATE
PROJ TITLE LIGHTGIG-1180LB-DIST-AF
REV. NUMBER
DATE REV.

BLACK & VEATCH

DESIGN ENGINEER CONTACT:
CHRISTOPHER ZUCK
BLACK & VEATCH
(913) 458-2368
ZUCKC@BV.COM

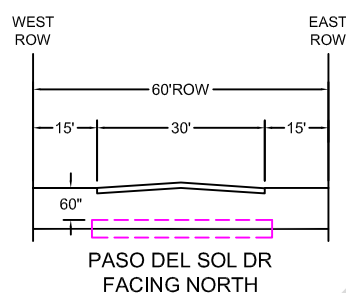
FORT BEND COUNTY
PERMIT #
SHOWN ON PRINT #

DESIGN SUMMARY:
-BORE 335' EAST FROM PED
TO PED.



BORE DETAIL

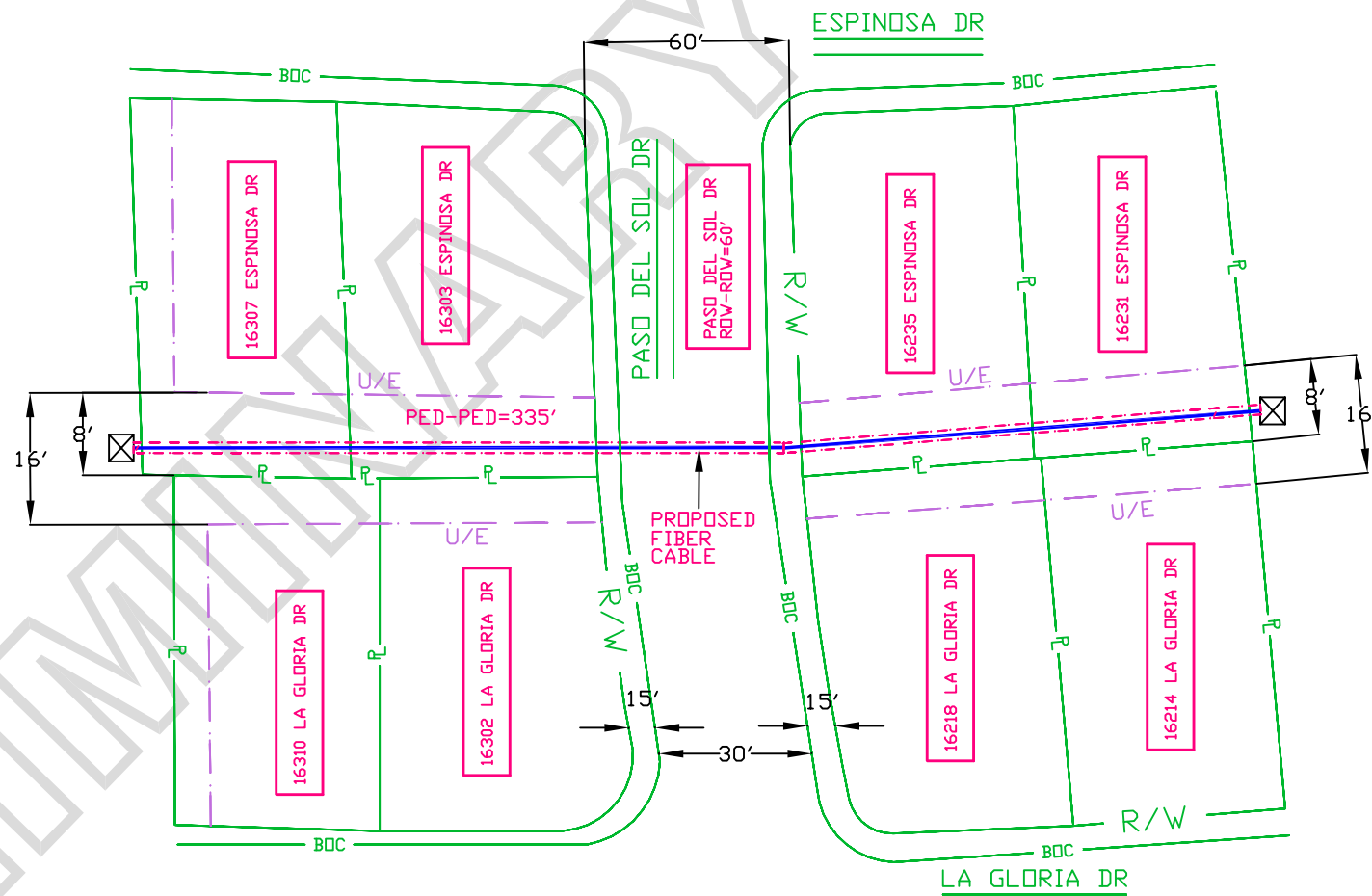
NTS



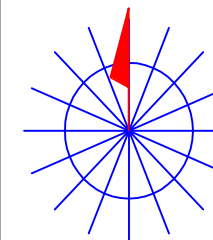
TYPICAL BORE
CROSS-SECTION

NTS

FORT BEND COUNTY NOTIFICATION



SPECIAL CIRCUITS N
6203 FORWARDED N
PERMIT REQUIRED Y



NORTH ARROW

OPERATING RANGE OF JOB STEPS

TASK _____ TO _____

MFRC

TRANSMISSION ZONE
RZ 0 CZ 0 TAPER CODE 1180LB

CAUTION HIGH VOLTAGE
KV 0.00 AERIAL N BURIED Y

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 A00XB8V

TOT.PRINTS 0 PRINT NO. 103
NPA/NNX: 281-498 PRT:281498

EXCH. ALIEF

TAX DIST. FG113

GEO LOC. W85498

ENGR. RH

DRAWN AP

TELEPHONE NO. (281) 224-8741

REC. REF.

MAP REF. 527K

SCALE NONE

ISSUE DATE

PROJ TITLE LIGHTGIG-1180LB-DIST-AF

REV. NUMBER

DATE REV.

--Proprietary--

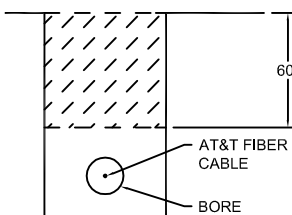
Not for use or disclosure outside the AT&T companies except under written agreement.

BLACK & VEATCH

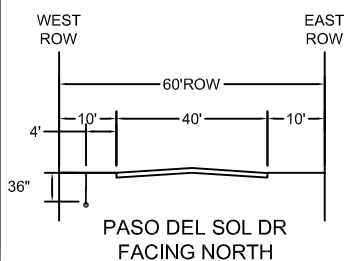
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FORT BEND COUNTY
PERMIT #
SHOWN ON PRINT #

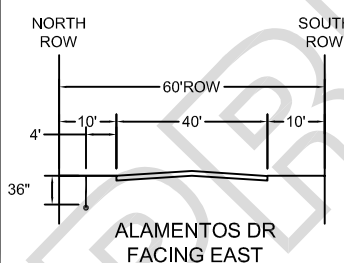
DESIGN SUMMARY:
-BORE 280' SOUTH FROM
PI TO PI.
-BORE 130' WEST FROM
HANDHOLE TO PED.
-BORE 123' NORTH FROM
PED TO PI.
-BORE 181' EAST FROM PI TO PI.
-BORE 110' NORTH FROM PI TO
HANDHOLE.



BORE DETAIL NTS

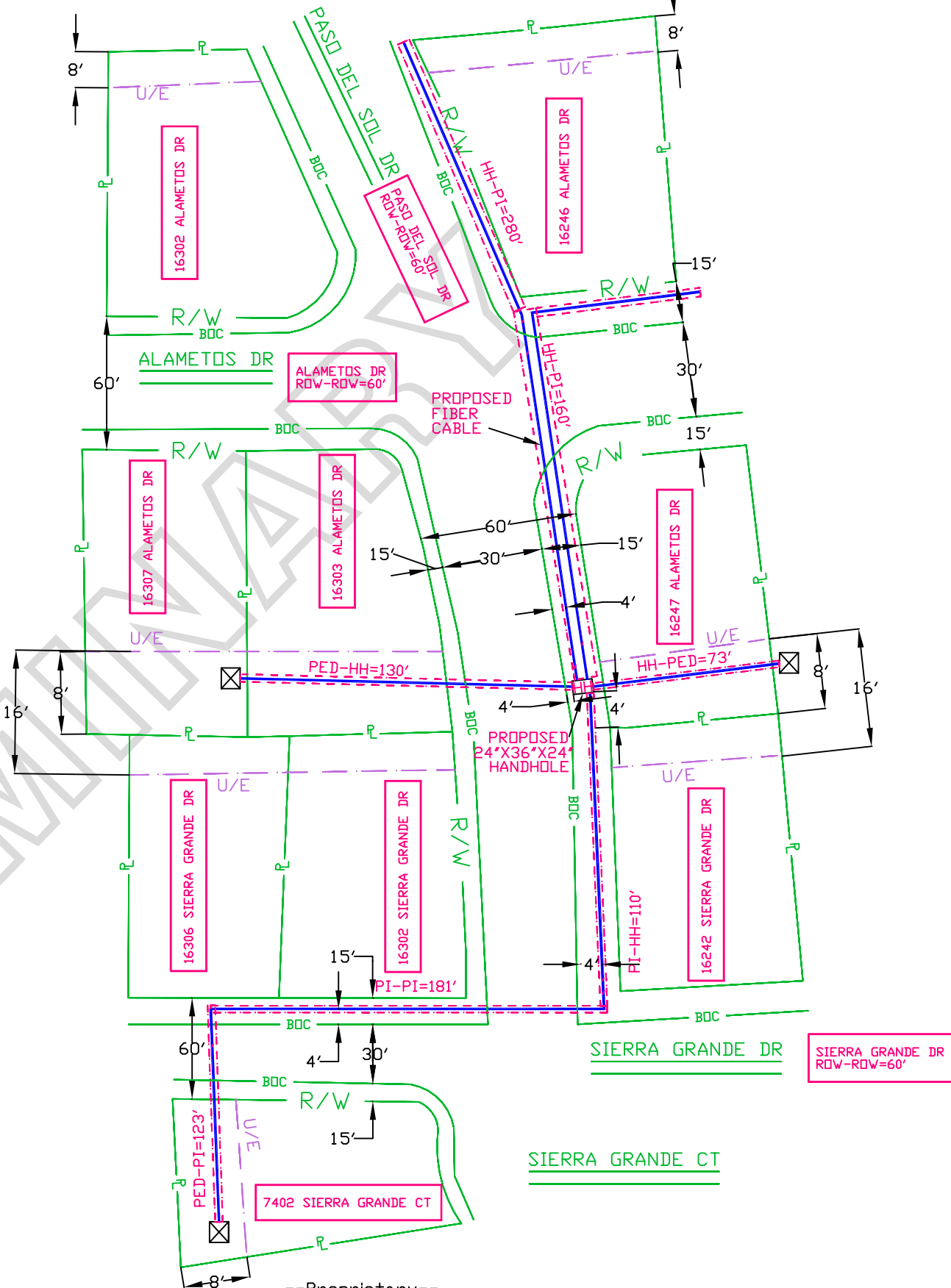


TYPICAL CROSS-SECTION NTS



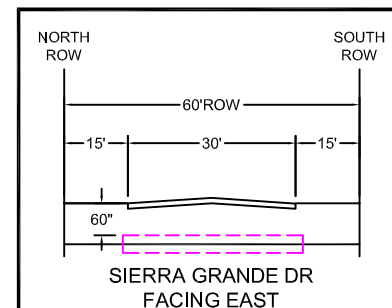
TYPICAL CROSS-SECTION NTS

FORT BEND COUNTY NOTIFICATION

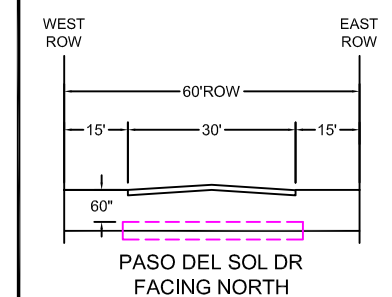


--Proprietary--

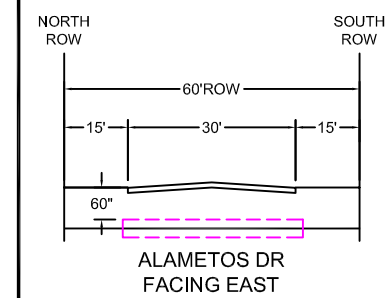
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TYPICAL BORE CROSS-SECTION NTS

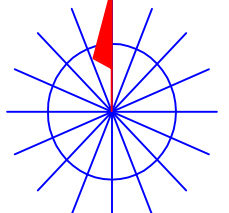


TYPICAL BORE CROSS-SECTION NTS



TYPICAL BORE CROSS-SECTION NTS

SPECIAL CIRCUITS N
6203 FORWARDED N
PERMIT REQUIRED Y



NORTH ARROW

OPERATING RANGE OF JOB STEPS
TASK _____ TO _____
MFRC

TRANSMISSION ZONE
RZ 0 CZ 0 TAPER CODE 1180LB

CAUTION HIGH VOLTAGE
KV 0.00 AERIAL N BURIED Y

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 A00XB8V

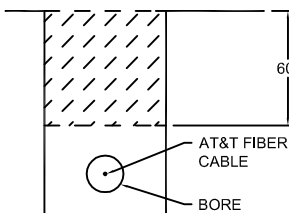
TOT.PRINTS 0 PRINT NO. 104
NPA/NNX: 281-498 PRT:281498
EXCH. ALIEF
TAX DIST. FG113
GEO LOC. W85498
ENGR. RH DRAWN AP
TELEPHONE NO. (281) 224-8741
REC. REF.
MAP REF. 527K
SCALE NONE
ISSUE DATE
PROJ TITLE LIGHTGIG-1180LB-DIST-AF
REV. NUMBER
DATE REV.

BLACK & VEATCH

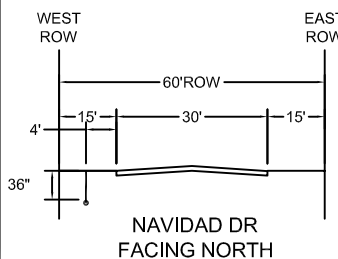
DESIGN ENGINEER CONTACT:
CHRISTOPHER ZUCK
BLACK & VEATCH
(913) 458-2368
ZUCKC@BV.COM

FORT BEND COUNTY
PERMIT #
SHOWN ON PRINT #

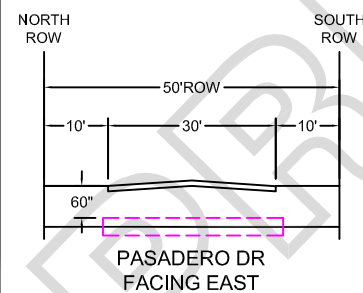
DESIGN SUMMARY:
-BORE 262' NORTH FROM
HANDHOLE TO PI.



BORE DETAIL NTS

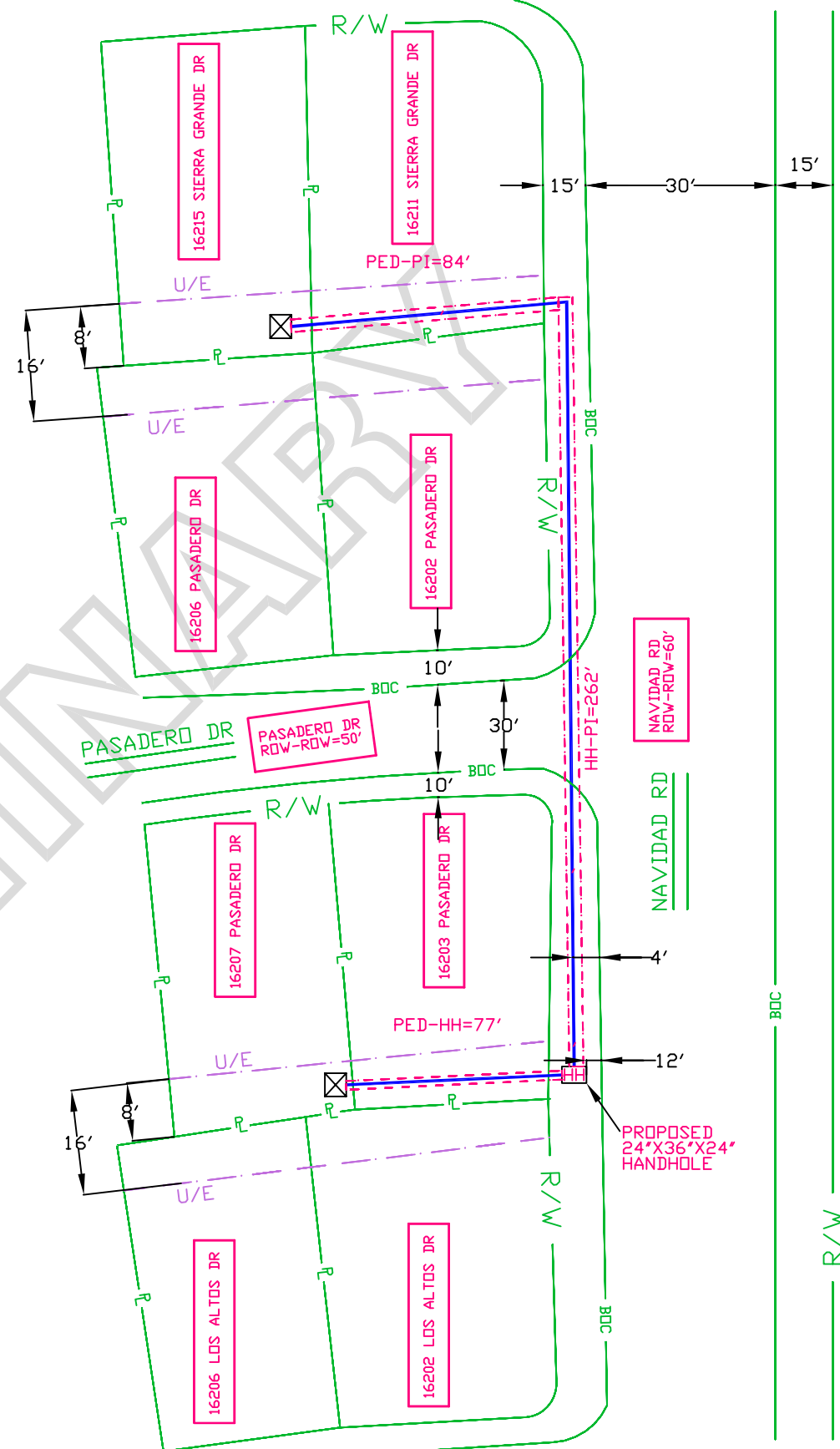


TYPICAL CROSS-SECTION NTS



TYPICAL BORE CROSS-SECTION NTS

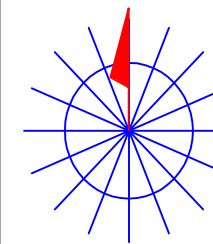
FORT BEND COUNTY NOTIFICATION



--Proprietary--

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SPECIAL CIRCUITS N
6203 FORWARDED N
PERMIT REQUIRED Y



NORTH ARROW

OPERATING RANGE OF JOB STEPS

TASK _____ TO _____

MFRC

TRANSMISSION ZONE
RZ 0 CZ 0 TAPER CODE 1180LB

CAUTION HIGH VOLTAGE
KV 0.00 AERIAL N BURIED Y

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 A00XB8V

TOT.PRINTS 0 PRINT NO. 105

NPA/NNX: 281-498 PRT:281498

EXCH. ALIEF

TAX DIST. FG113

GEO LOC. W85498

ENGR. RH DRAWN AP

TELEPHONE NO. (281) 224-8741

REC. REF.

MAP REF. 527L

SCALE NONE

ISSUE DATE

PROJ TITLE LIGHTGIG-1180LB-DIST-AF

REV. NUMBER

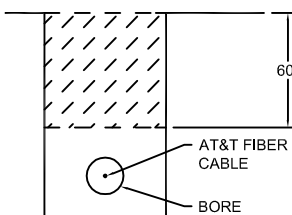
DATE REV.

BLACK & VEATCH

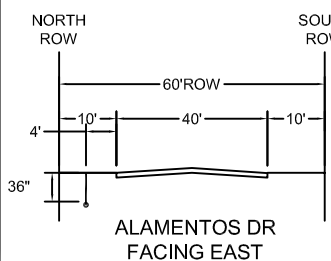
DESIGN ENGINEER CONTACT:
CHRISTOPHER ZUCK
BLACK & VEATCH
(913) 458-2368
ZUCKC@BV.COM

FORT BEND COUNTY
PERMIT #
SHOWN ON PRINT #

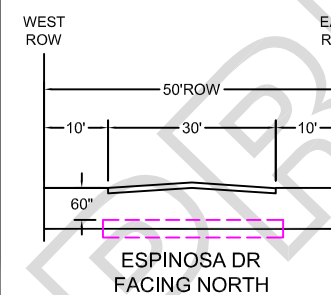
DESIGN SUMMARY:
-BORE 554' SOUTHWEST FROM
PI-PI.



BORE DETAIL NTS

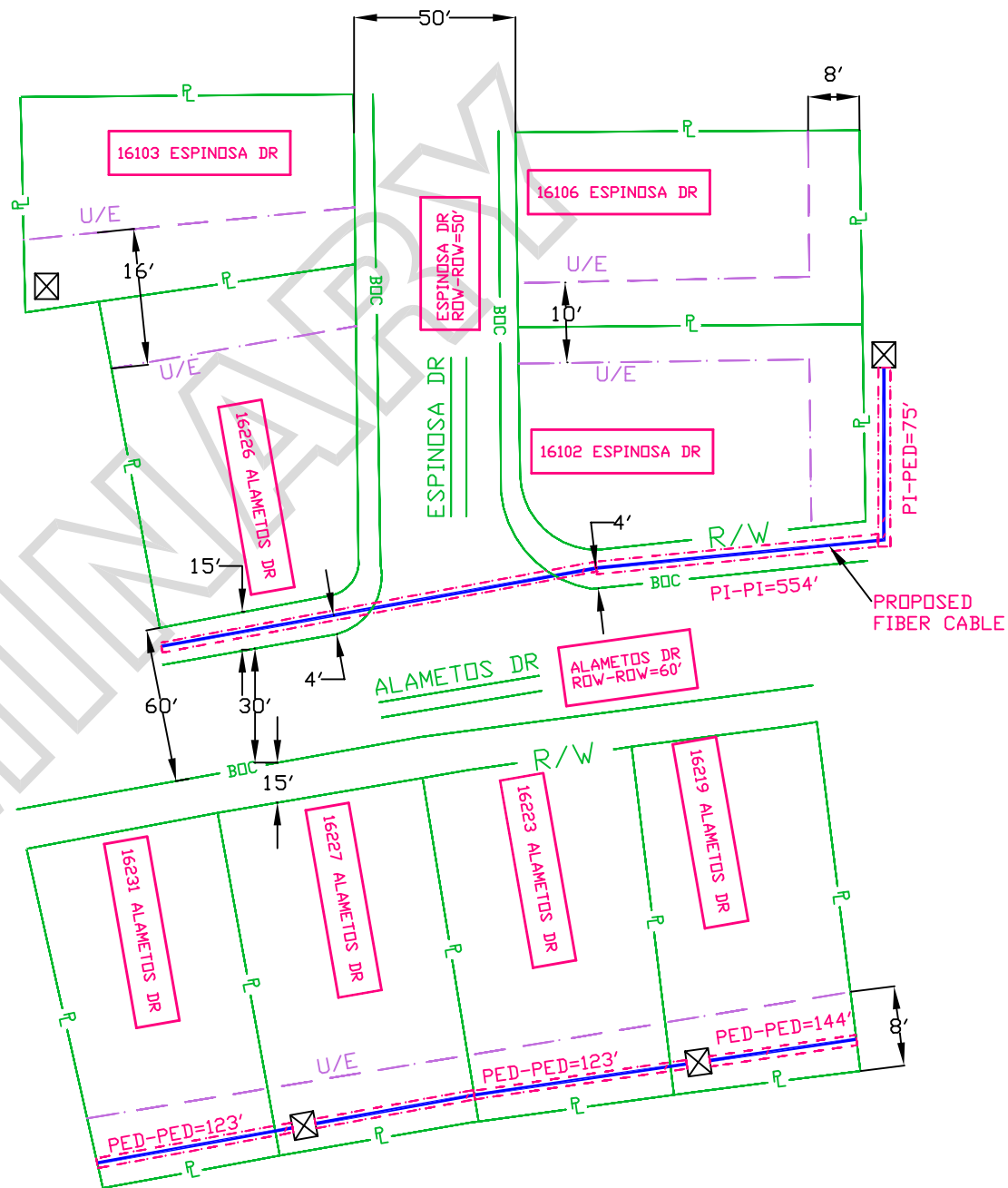


TYPICAL CROSS-SECTION NTS

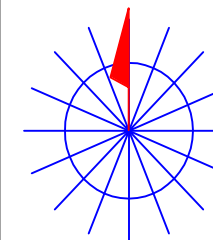


TYPICAL BORE CROSS-SECTION NTS

FORT BEND COUNTY NOTIFICATION



SPECIAL CIRCUITS N
6203 FORWARDED N
PERMIT REQUIRED Y



NORTH ARROW

OPERATING RANGE OF JOB STEPS

TASK _____ TO _____

MFRC

TRANSMISSION ZONE
RZ 0 CZ 0 TAPER CODE 1180LB

CAUTION HIGH VOLTAGE
KV 0.00 AERIAL N BURIED Y

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 A00XB8V

TOT.PRINTS 0 PRINT NO. 106
NPA/NNX: 281-498 PRT:281498

EXCH. ALIEF
TAX DIST. FG113
GEO LOC. W85498

ENGR. RH DRAWN AP
TELEPHONE NO. (281) 224-8741

REC. REF.
MAP REF. 527K
SCALE NONE

ISSUE DATE
PROJ TITLE LIGHTGIG-1180LB-DIST-AF
REV. NUMBER

DATE REV.

--Proprietary--

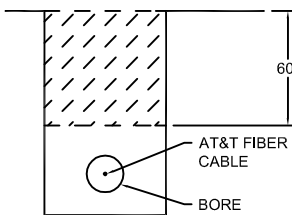
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BLACK & VEATCH

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ZUCKC@BV.COM

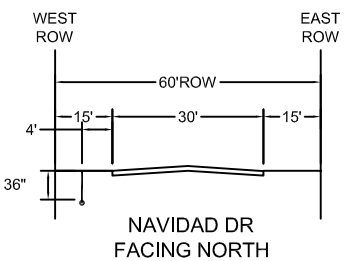
FORT BEND COUNTY
PERMIT #
SHOWN ON PRINT #

DESIGN SUMMARY:
-BORE 260' SOUTH FROM
HANDHOLE TO HANDHOLE.
-BORE 413' NORTHEAST FROM
PEDESTAL TO HANDHOLE.



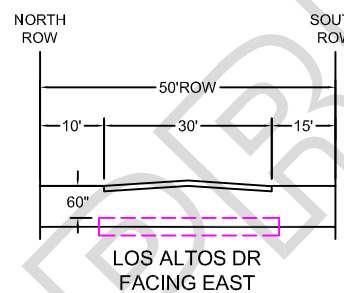
BORE DETAIL

NTS



TYPICAL CROSS-SECTION

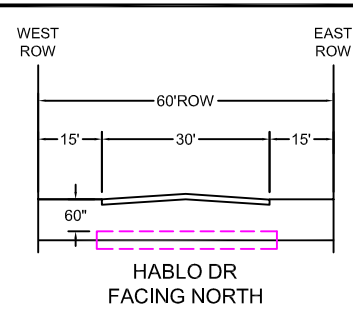
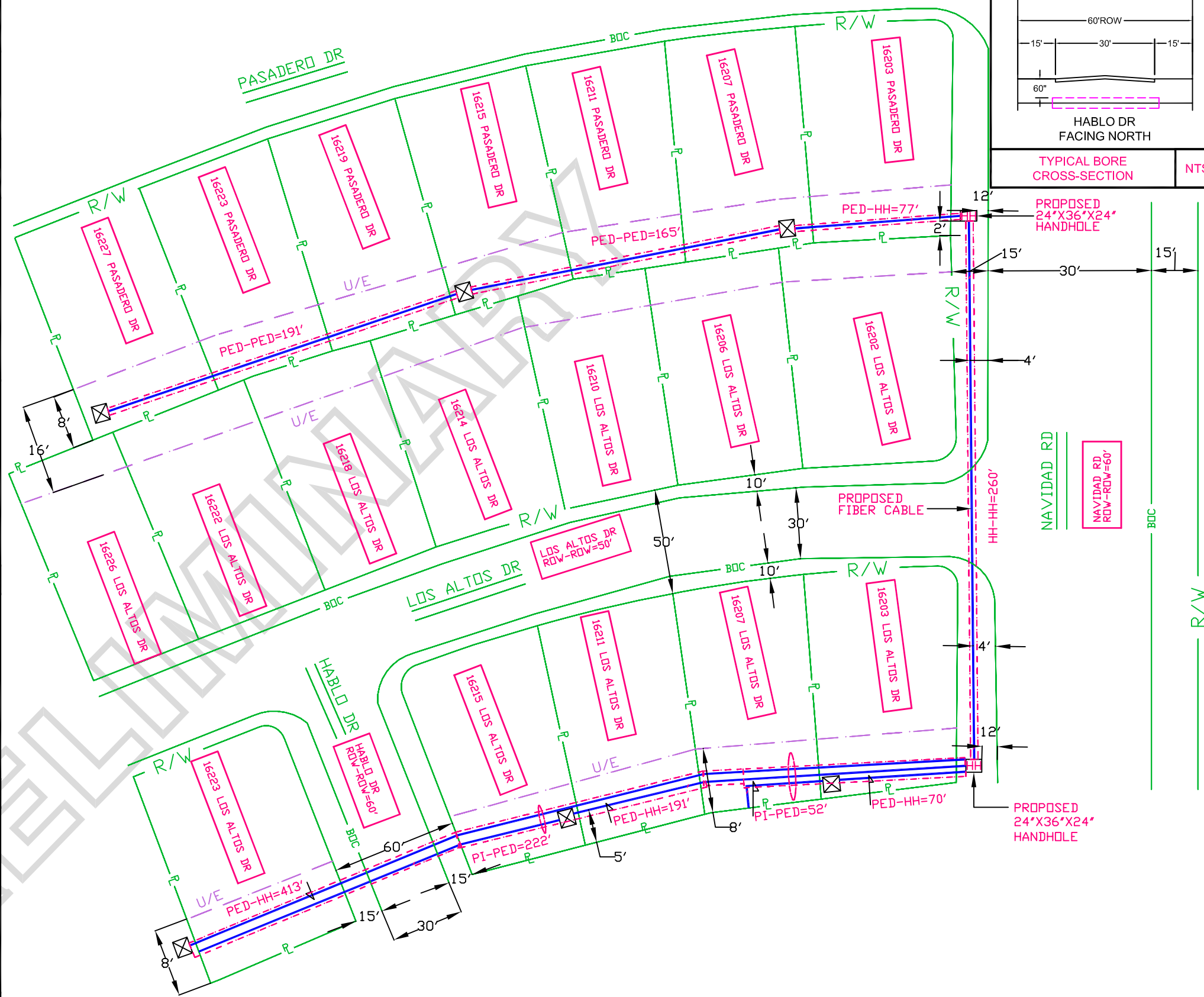
NTS



TYPICAL BORE CROSS-SECTION

NTS

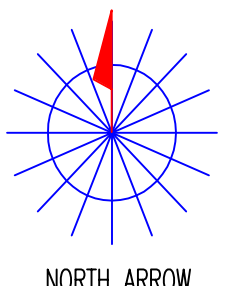
FORT BEND COUNTY NOTIFICATION



TYPICAL BORE CROSS-SECTION

NTS

SPECIAL CIRCUITS N
6203 FORWARDED N
PERMIT REQUIRED Y



OPERATING RANGE OF JOB STEPS

TASK _____ TO _____

MFRC

TRANSMISSION ZONE
RZ 0 CZ 0 TAPER CODE 1180LB

CAUTION HIGH VOLTAGE
KV 0.00 AERIAL N BURIED Y

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 A00XB8V

TOT.PRINTS 0 PRINT NO. 107
NPA/NNX: 281-498 PRT:281498
EXCH. ALIEF
TAX DIST. FG113
GEO LOC. W85498
ENGR. RH DRAWN AP
TELEPHONE NO. (281) 224-8741
REC. REF.
MAP REF. 527K 527L
SCALE NONE
ISSUE DATE
PROJ TITLE LIGHTGIG-1180LB-DIST-AF
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

ROADWAY	POSTED SPEED	TAPER LENGTH	SPACING CHANNELIZING DEVICES		SIGN SPACING	BUFFER SPACE
			TAPER	TANGENT		
NAVIDAD RD	30	165	30	60	120	90
PASO DEL SOL DR	30	165	30	60	120	90
ALAMETOS DR	30	165	30	60	120	90
PASO DOBBLE DR	30	165	30	60	120	90
SIERRA GRANDE DR	30	165	30	60	120	90

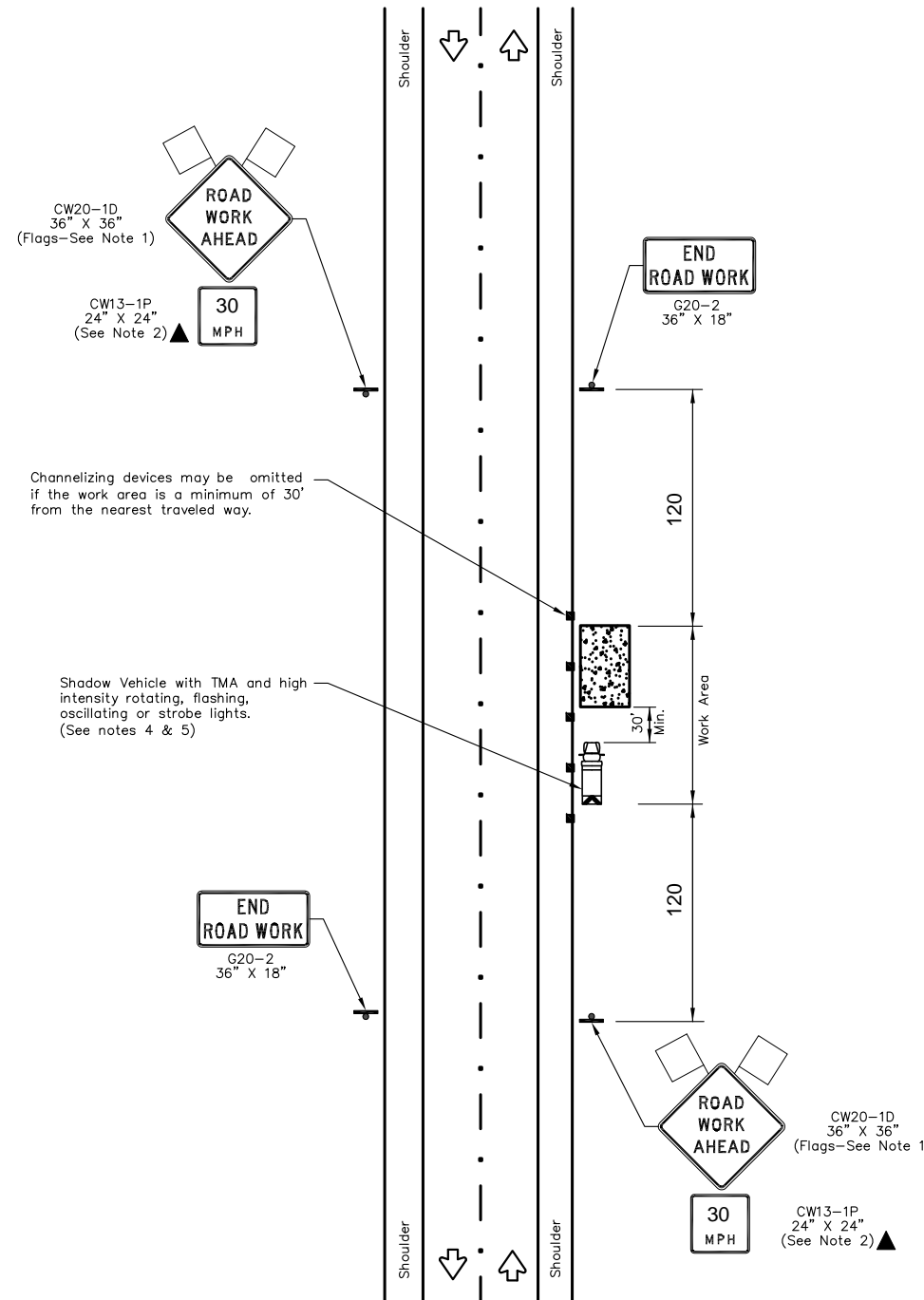
LEGEND			
	Type 3 Barricade		Channelizing Devices
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)
	Trailer Mounted Flashing Arrow Board		Portable Changeable Message Sign (PCMS)
	Sign		Traffic Flow
	Flag		Flagger

Posted Speed *	Formula	Minimum Desirable Taper Lengths "L"			Suggested Maximum Spacing of Channelizing Devices		Minimum Sign Spacing "X" Distance	Suggested Longitudinal Buffer Space "B"
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent		
30	$L = \frac{WS^2}{60}$	150'	165'	180'	30'	60'	120'	90'
35		205'	225'	245'	35'	70'	160'	120'
40	L=WS	265'	295'	320'	40'	80'	240'	155'
45		450'	495'	540'	45'	90'	320'	195'
50	L=WS	500'	550'	600'	50'	100'	400'	240'
55		550'	605'	660'	55'	110'	500'	295'
60	L=WS	600'	660'	720'	60'	120'	600'	350'
65		650'	715'	780'	65'	130'	700'	410'
70	L=WS	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 Speed(MPH)

GENERAL NOTES

- Flags attached to signs where shown are OPTIONAL.
- All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol are OPTIONAL.
- Inactive work vehicles or other equipment should be parked near the right-of-way line and not parked on the paved shoulder.
- A Shadow Vehicle with a TMA should be used anytime 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 remain 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 conformance with part VI of Texas Manual on Uniform Traffic Control Devices (TMUTCD - Latest edition with revisions) during construction.
- No lanes shall be blocked during construction.
- If project is within 400 feet from a signalized intersection, the Contractor shall contact Harris County Engineering Department, Traffic Signal Maintenance at (713) 881-3210 five (5) days prior to the start of construction.



WORK SPACE NEAR SHOULDER

NO.	REVISIONS	DATE	NAME
▲	UPDATED DEPARTMENT NAME & GENERAL NOTES	4/16/15	BSH
▲			
▲			
▲			

**FORT BEND COUNTY
ENGINEERING DEPARTMENT**

CONSULTANT
LOGO/INFORMATION

ENGINEERS
SEAL

PROJECT TITLE: AT&T LIGHTGIG ALIEF - 1180LB - A00X4MM	
DRAWN BY: BSH	HCED STANDARD
CK'D BY: VC	SHEET DESCRIPTION: TRAFFIC CONTROL PLAN (SHOULDER WORK)
SCALE: N.T.S.	38
DATE: 12/05/2017	APPROVED BY:
	SHEET NO: /

TRAFFIC CONTROL PLAN SECTION SHALL BE COMPLETED BY ENGINEER

ROADWAY	POSTED SPEED	TAPER LENGTH	SPACING CHANNELIZING DEVICES		SIGN SPACING	BUFFER SPACE
			TAPER	TANGENT		
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ESPINOSA DR	30	165	30	60	120	90
LOS ALTOS DR	30	165	30	60	120	90

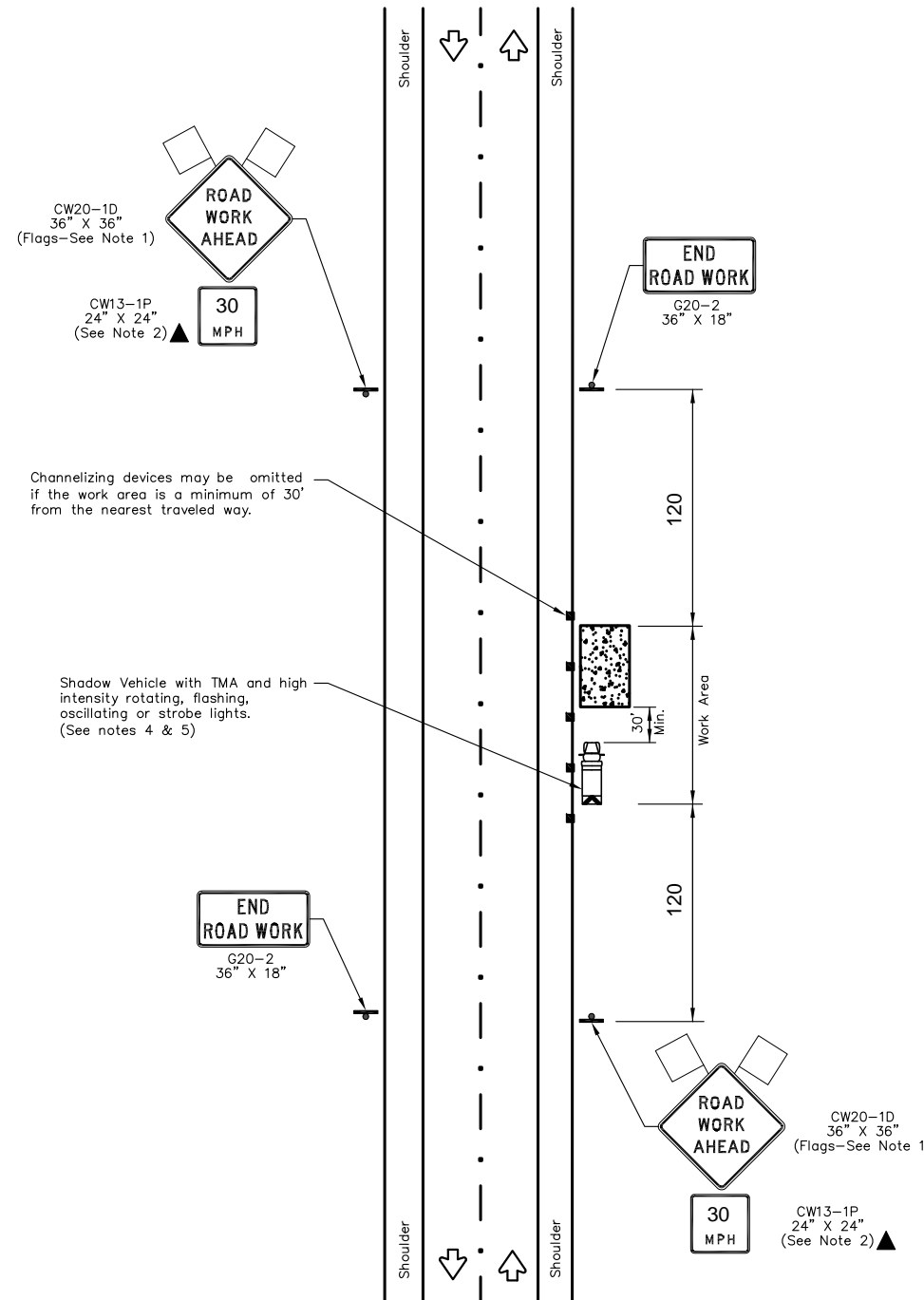
LEGEND			
	Type 3 Barricade		Channelizing Devices
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)
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Channelizing devices may be omitted if the work area is a minimum of 30' from the nearest traveled way.

Shadow Vehicle with TMA and high intensity rotating, flashing, oscillating or strobe lights. (See notes 4 & 5)

WORK SPACE NEAR SHOULDER

NO.	REVISIONS	DATE	NAME
▲	UPDATED DEPARTMENT NAME & GENERAL NOTES	4/16/15	BSH
▲			
▲			
▲			

**FORT BEND COUNTY
ENGINEERING DEPARTMENT**

CONSULTANT
LOGO/INFORMATION

ENGINEERS
SEAL

PROJECT TITLE: AT&T LIGHTGIG ALIEF - 1180LB - A00X4MM	
DRAWN BY: BSH	HCED STANDARD
CK'D BY: VC	SHEET DESCRIPTION: TRAFFIC CONTROL PLAN (SHOULDER WORK)
SCALE: N.T.S.	38
DATE: 12/05/2017	APPROVED BY:

SHEET NO: /