

**REVIEW BY FORT BEND COUNTY
COMMISSIONERS COURT**

**Fort Bend County
Engineering Department**
301 Jackson Suite 401
Richmond, Texas 77469
281.633.7500
Permits@fortbendcountytexas.gov

☒ Right of Way Permit
☐ Commercial Driveway Permit
Permit No: 2017-13072

Applicant: PS Light Wave, Inc.

Job Location Site: Williwaw Drive, Houston, TX 77083

Bond No. [REDACTED] **Date of Bond:** 12/13/2016 **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 25th day of April, 2017, Upon Motion of Commissioner Meyers, seconded by Commissioner Morales, 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

By: Charles O. Ay
County Engineer

N/A

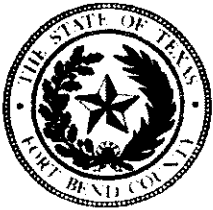
By: _____
Drainage District Engineer/Manager

Presented to Commissioners Court and approved.

Date Recorded 5-2-2017 Comm. Court No. 13M

Clerk of Commissioners Court

By: Arinda W. Ellis
Deputy



**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

- ☒ Right of Way Permit
☐ Commercial Driveway Permit

Permit No: 2017-13072

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

(1) COMPLETE APPLICATION FORM:

- ☒ a. Name of road, street, and/or drainage ditch affected.
☒ b. Vicinity map showing course of directions
☒ c. Plans and specifications

(2) BOND:

- ☐ County Attorney, approval when applicable.
- ☒ Perpetual bond currently posted. Bond No: [REDACTED] Amount: \$50,000.00
- ☐ Performance bond submitted. Bond No: _____ Amount: _____
- ☐ Cashier's Check Check No: _____ Amount: _____

(3) DRAINAGE DISTRICT APPROVAL (WHEN APPLICABLE):

Drainage District Approval

Date

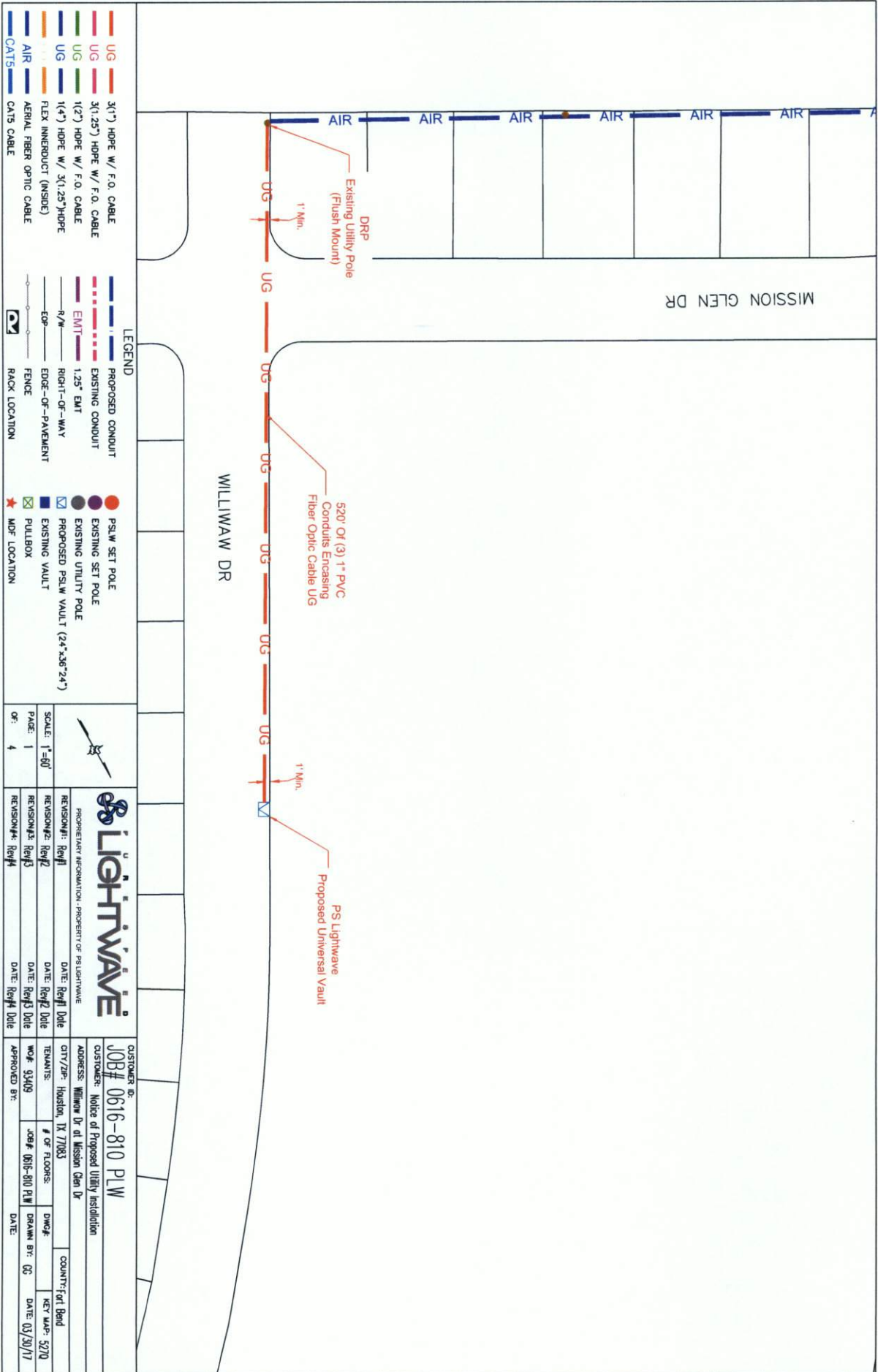
We have reviewed this project and agree it meets minimum requirements.

Chandy O. Al

Permit Administrator

4/17/17

Date





LEGEND

UG	3/1" HOPE W/ F.O. CABLE	PROPOSED CONDUIT	PSLW SET POLE
UG	3/1.25" HOPE W/ F.O. CABLE	EXISTING CONDUIT	EXISTING SET POLE
UG	1/2" HOPE W/ F.O. CABLE	EMT 1.25" EMT	EXISTING UTILITY POLE
UG	1/4" HOPE W/ 3/1.25" HOPE	R/W	PROPOSED PSLW VAULT (24"x36"x24")
UG	FLEX INNERDUCT (INSIDE)	EDGE-OF-WAY	EXISTING VAULT
AIR	AERIAL FIBER OPTIC CABLE	EDGE-OF-PAVEMENT	PULLBOX
CATS	CATS CABLE	FENCE	MDF LOCATION

PROJECT INFORMATION - PROPERTY OF PS LIGHTWAVE

REVISION#1: Rev1	DATE: Rev1 Date	CITY/ZIP: Houston, TX 77063	COUNTY: Fort Bend
REVISION#2: Rev2	DATE: Rev2 Date	TELEPHONE: 94409	KEY MAP: 5270
REVISION#3: Rev3	DATE: Rev3 Date	JOB# 0616-810 PLW	DRAWN BY: GS
REVISION#4: Rev4	DATE: Rev4 Date	APPROVED BY:	DATE: 03/30/17

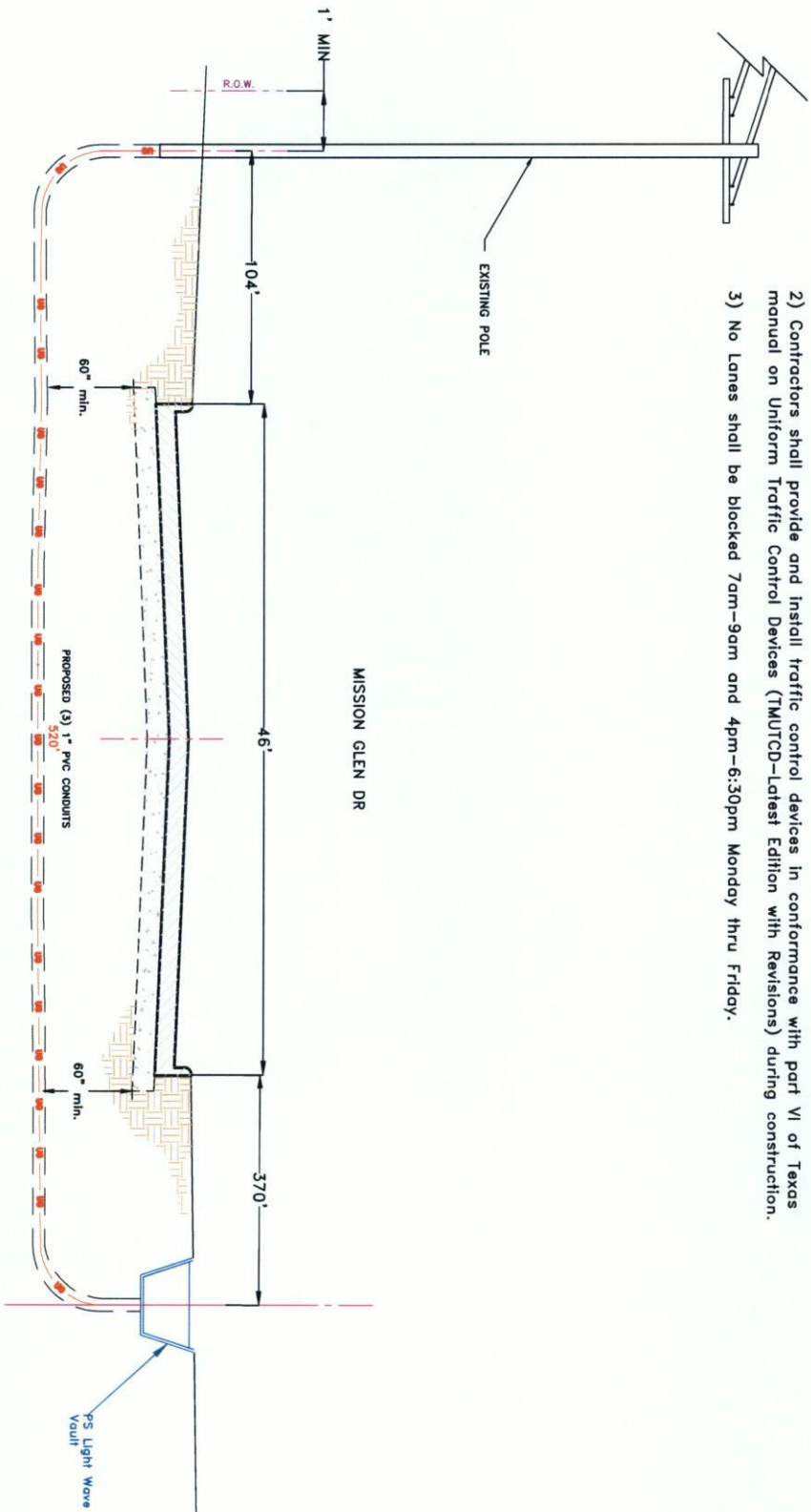
CUSTOMER ID: JOB# 0616-810 PLW

CUSTOMER: Notice of Proposed Utility Installation

ADDRESS: Willimaw Dr at Mission Glen Dr

General Notes:

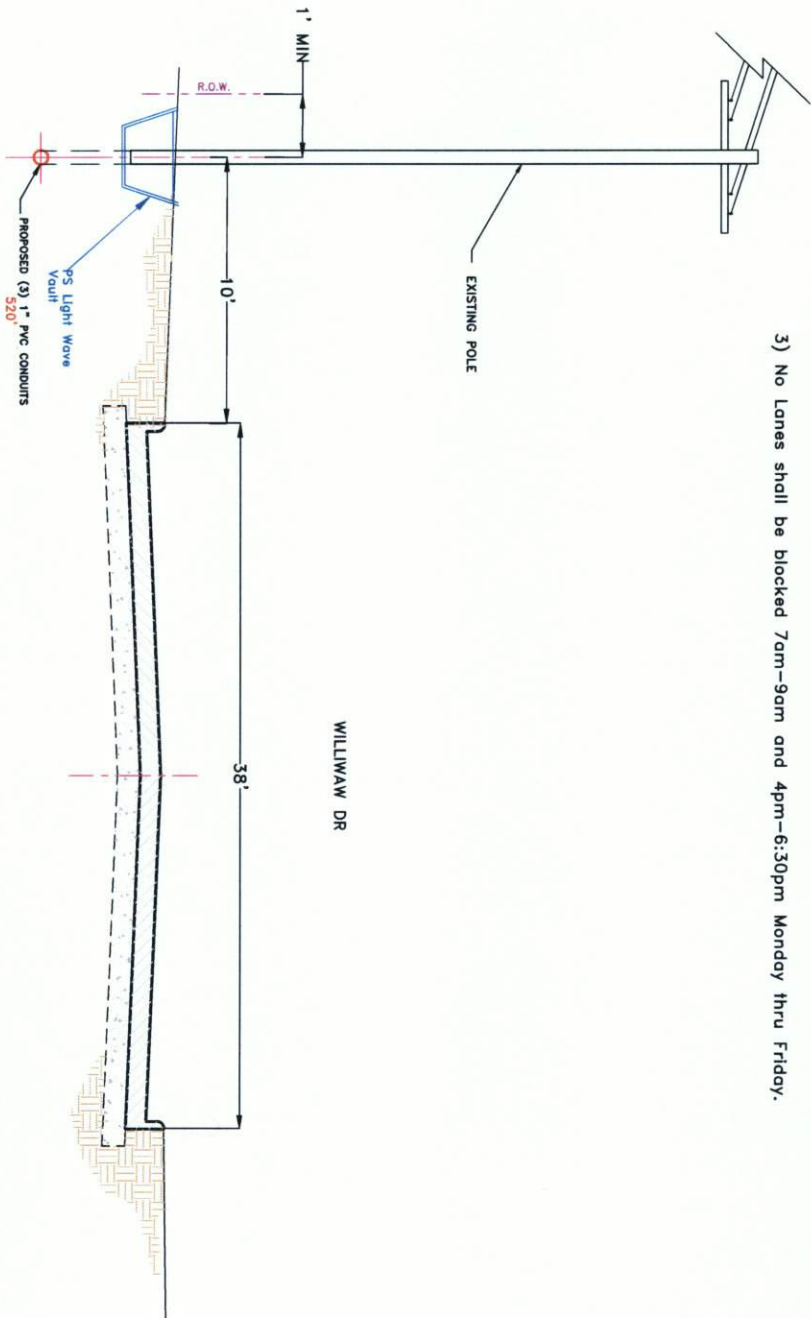
- 1) Surface to be restored to its original condition in compliance with Fort Bend County Standards.
- 2) Contractors shall provide and install traffic control devices in conformance with part VI of Texas manual on Uniform Traffic Control Devices (TMUTCD—Latest Edition with Revisions) during construction.
- 3) No Lanes shall be blocked 7am–9am and 4pm–6:30pm Monday thru Friday.



LEGEND		Job#	
UG	3(1") HDPE w/ F.O. CABLE	0616-810	PLW
UG	3(1.25") HDPE w/ F.O. CABLE	Description: Notice of Proposed Utility Installation	
UG	1(2") HDPE w/ F.O. CABLE	Address: Willow Dr at Mission Glen Dr	
UG	1(4") HDPE w/ 3(1.25") HDPE	City/Zip: Houston, TX 77063	
AIR	FLEX INNERDUCT	County: Fort Bend	
AIR	AERIAL FIBER OPTIC CABLE	WOP: 33409	
CATS	CATS CABLE	Job# 0616-810 PLW DRAWN BY: GZ	
		DATE: 03/30/17	
		APPROVED BY:	
		DATE:	
		REVISION#1: Rev#1	
		DATE: Rev#1 Date	
		REVISION#2: Rev#2	
		DATE: Rev#2 Date	
		REVISION#3: Rev#3	
		DATE: Rev#3 Date	
		REVISION#4: Rev#4	
		DATE: Rev#4 Date	
		SCALE: N.T.S.	
		PAGE: 3	
		OF: 4	
		PROPRIETARY INFORMATION: PROPERTY OF PS LIGHTWAVE	

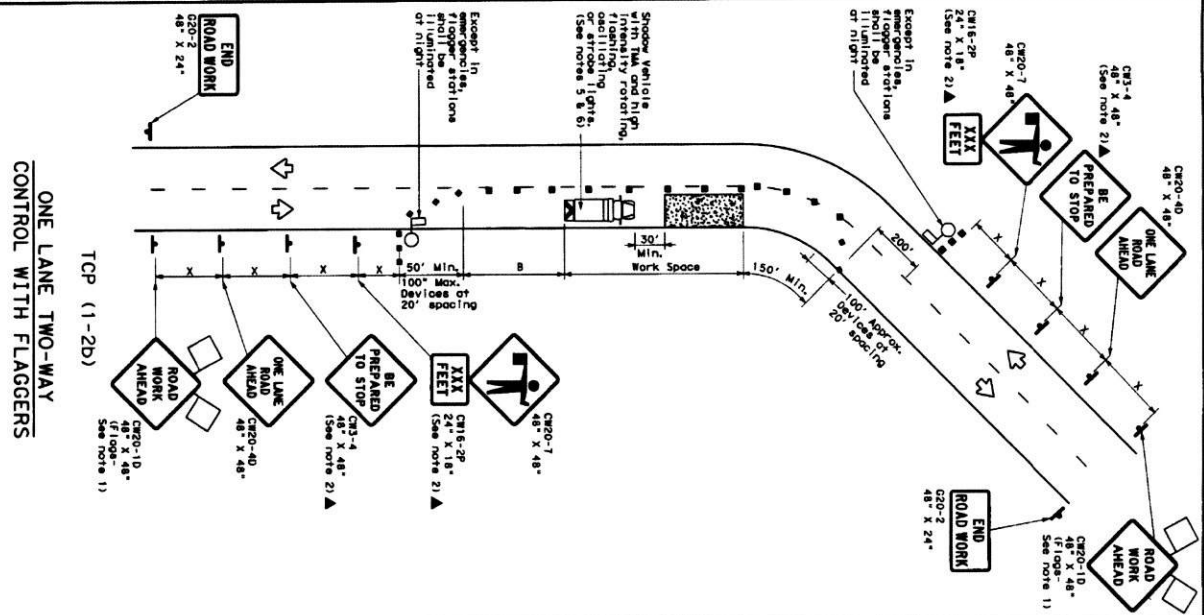
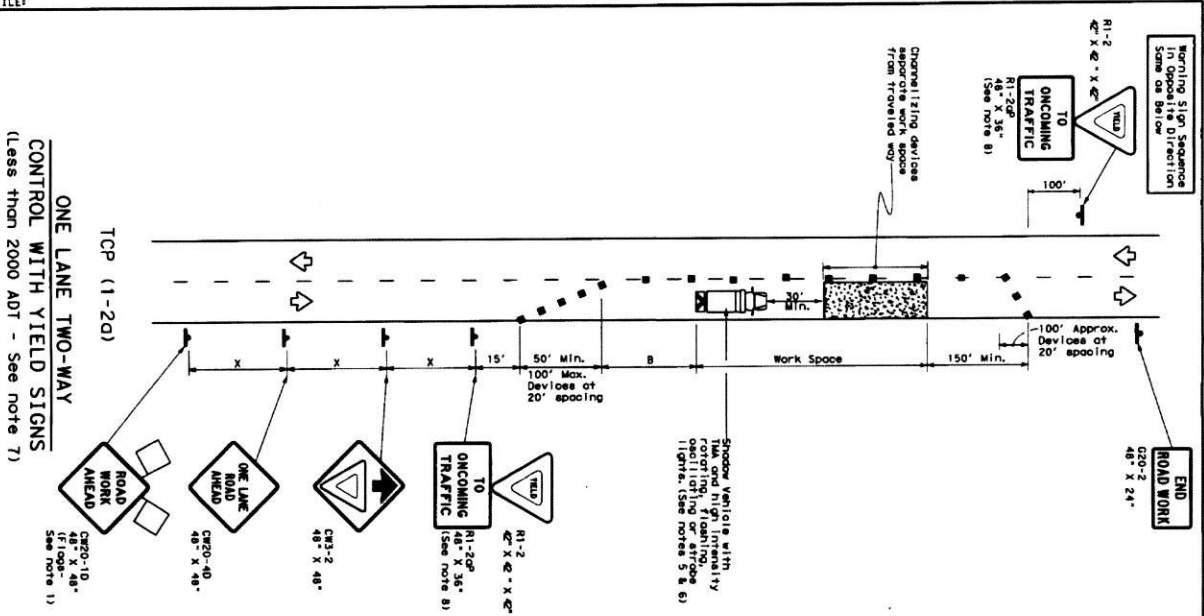
General Notes:










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AIR	FLEX INNERDUCT	EDGE-OF-PAVEMENT	EXISTING VAULT
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CATS	CATS CABLE	RACK LOCATION	MDT LOCATION

		Job# 0616-810 PLW	
SCALE: N.T.S.		Description: Notice of Proposed Utility Installation	
REVISION#1: Rev1		ADDRESS: Willow Dr at Mission Glen Dr	
REVISION#2: Rev2		CITY/Zip: Houston, TX 77063	
REVISION#3: Rev3		COUNTY: Fort Bend	
REVISION#4: Rev4		DATE: 03/20/17	
DATE: Rev1 Date		DATE: Rev2 Date	
DATE: Rev3 Date		DATE: Rev4 Date	
DATE: Rev5 Date		DATE: Rev6 Date	
DATE: Rev7 Date		DATE: Rev8 Date	
DATE: Rev9 Date		DATE: Rev10 Date	
DATE: Rev11 Date		DATE: Rev12 Date	
DATE: Rev13 Date		DATE: Rev14 Date	
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DATE: Rev93 Date		DATE: Rev94 Date	
DATE: Rev95 Date		DATE: Rev96 Date	
DATE: Rev97 Date		DATE: Rev98 Date	
DATE: Rev99 Date		DATE: Rev100 Date	



LEGEND	
	Type 3 Bertha/loads
	Heavy Work Vehicle
	Traffic Mounted Flashing Arrow Board
	Sign
	Flow
	Traffic Mounted Attenuator (TMA)
	Portable Changeable Traffic Signal (PCTS)
	Traffic Flow
	Flagger

[illegible]

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

GENERAL NOTES

1. Flange attached to signs where shown or REQUIRED.
2. All traffic control devices illustrated are REQUIRED, except those denoted with the maintenance "X", when approved by the Engineer.
3. The C&E "BE PREPARED TO STOP" sign may be installed after the C&E-40 "ONE LANE ROAD AHEAD" sign, but proper advance spacing shall be maintained.
4. The "ROAD NARROWING AHEAD" sign may be used if the road narrows to less than 1500 feet.
5. If used for narrowing ahead of the Stop or R-1-2 "YIELD" sign it shall be positioned 50 to 100 feet in advance of the stop or yield sign.
6. In the case of the area of grade separation without adversely affecting the performance or safety of the intersection, the "AHEAD OF GRADE SEPARATION" sign may be positioned 50 to 100 feet in advance of the traffic control to remain in place.
7. Signs 3 and 4, or other conditioning devices may be substituted for the Stop Sign and TWA.
8. Additional Stop Sign vehicles with TWA may be positioned off the paved surface, next to the signs shown in order to protect all work's exposed.

ICP (1-20)

7. R1-2 "YIELD" sign/traffic control may be used on projects with approaches that have adequate sight distances. For projects in urban areas, work zones should be no longer than one half city block. In rural areas on roadways with less than 2000 ADT, work zones should be no longer than 400 feet.
8. R1-2 "YIELD" sign with R1-2a "ONCOMING TRAFFIC" plaque shall be placed on a support of 6 feet minimum mounting height.

TCP (1-2b)

9. Flaggers should use two-way radios or other methods of communication to control traffic.
10. Length of work space should be based on the ability of flaggers to communicate.
11. If the work space is located near a horizontal or vertical curve, the buffer distances and the use of stop signs or advance warning signs should be based on the ability of the driver of stopped vehicles to determine stopping sight distances to the flaggers.
12. Channelizing devices on the center line may be omitted when a pilot car is leading traffic and approved by the engineer.
13. Flaggers should use 24" STOP/SLOW paddles to control traffic. Flags should be utilized in emergency situations.

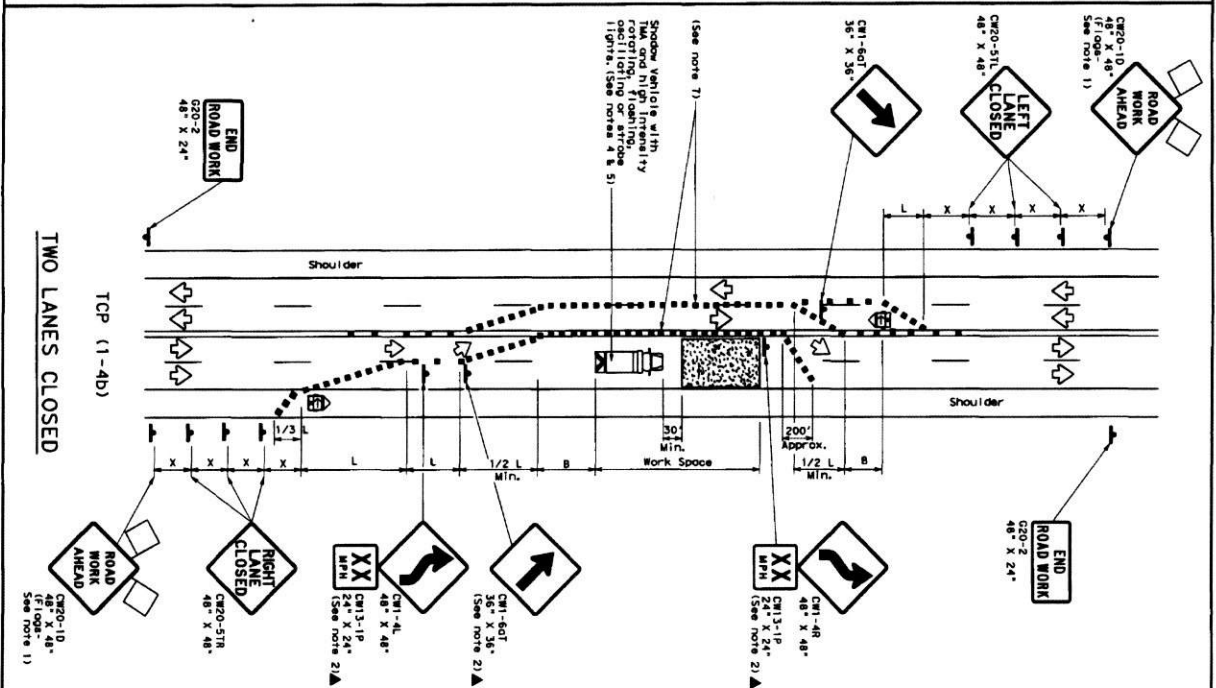
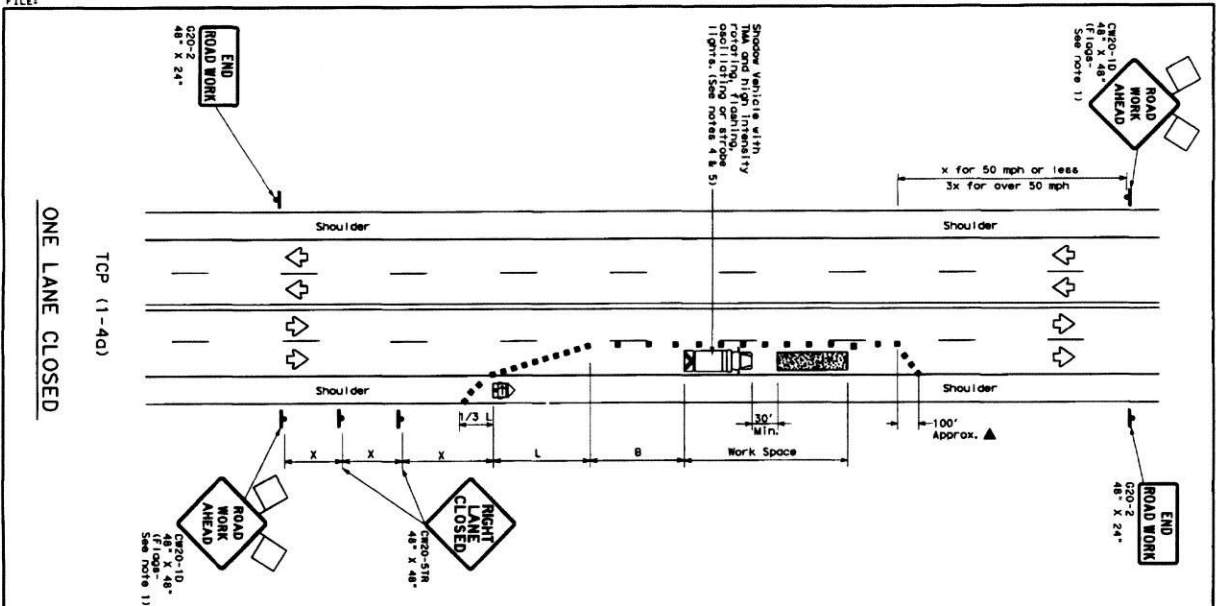
For construction or maintenance contract work, specific project requirements for shadow vehicles can be found in the project GENERAL NOTES for Item 502, Barrier Codes, Signs and Traffic Handling.

Texas Department of Transportation
Traffic Operations Division

TRAFFIC CONTROL PLAN
ONE-LANE TWO-WAY
TRAFFIC CONTROL

4-30	1-12	December 1985	REVIEWS
2-94			
1-87			
4-98			

DATE:
FILE:



LEGEND	
	Type 3 Bar-Code
	Heavy Work Vehicle
	Traffic Light Mounted Flashing Arrow Board
	Sign
	Flag
	Channelizing Device
	Traffic Mounted Attenuator (TMA)
	Portable Changeable Message Sign (PCMS)
	Traffic Flow
	Flagger

Ported Resonator Shape	Formula	Desired Taper Lengths mm	On a Taper Device	On a Flat Surface	Minimum Sight Buffer Distance mm	Suggested Tapered Sight Buffer Distance mm
30	M_1^2	10° 15' 12"	On a Taper Device	On a Flat Surface	120	90°
35	M_2^2	20° 25' 22"	35	70°	160	120°
40	M_3^2	28° 25' 32"	40	80°	240	155°
45		50° 45' 50"	45	90°	320	195°
50		55° 55' 60"	50	100°	400°	240°
55	$L = M_5$	55° 55' 60"	55	110°	500°	285°
60		60° 60' 120"	60	120°	600°	330°
65		65° 65' 175"	65	130°	700°	415°
70		70° 70' 220"	70°	140°	800°	475°
75		75° 75' 230"	75°	150°	900°	540°

* Conventional Roads Only
** Taper lengths have been rounded off.

L=Length of Tape (FT) W=Width of Offset (FT) S=Posted Speed (MPH)

TYPICAL USAGE				
MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
	✓	✓		

GENERAL NOTES

- [illegible]

ICP (1-49)

5. If this TOP is used for a left lane closure, CRD-51L, "LEFT LANE CLOSED" signs should be used and channelizing devices shall be placed on the centerline where needed to protect the work space from approaching traffic with the arrow panel placed in the closed lane near the end of the merging taper.

$$\frac{100}{100 - 40} = 1.67$$

7. where traffic is directed over a yellow centerline, channelizing devices which separate two-way traffic should be spaced on topers at 20' or 15' if posted speeds are 35 mph or slower, and for tangent sections, at 1/25 where S is the speed in mph. This tighter device spacing is intended for the areas of conflicting markings, not the entire work zone.

For construction or maintenance contract work, specific project requirements for shadow vehicles can be found in the project GENERAL NOTES for Item 502, Borrowed, Signs and Traffic Handling.

Texas Department of Transportation
Traffic Operations Division

TRAFFIC CONTROL PLAN
LANE CLOSURES ON MULTILANE
CONVENTIONAL ROADS

TCP (1-4)-12

① 1-800 296-6666 1985 REV. 1-12	NEW TRUCK		CUA TRUCK	OWN TRUCK	CUA TRUCK
	CNTR	DECK	COB	MIDWINTER	
			2000000		
	E137		M-DECK NO.		
2-84 8-85 1-87 4-88 1-84					