



**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: 2017-11574

Applicant: PS Light Wave, Inc

Job Location Site: Waters Lake Boulevard, Missouri City, TX 77459

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 7th day of February, 2017, Upon Motion of Commissioner Meyers, seconded by Commissioner Patterson, duly put and carried, it is ORDERED, ADJUDGED AND DECREED that said notice of said above purpose is hereby acknowledged by the Commissioners Court of Fort Bend County, Texas, and that said notice be placed on record according to the regulation order thereof.

Signature

Presented to Commissioners Court and approved.

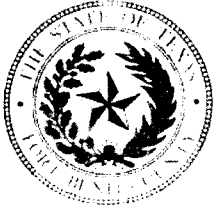
By: Charles O. Ay
for County Engineer

Date Recorded 2-14-17 Comm. Court No. 15L

Clerk of Commissioners Court

By: N/A
Drainage District Engineer/Manager

By: Sandy Wilho
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: 2017-11574

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. 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

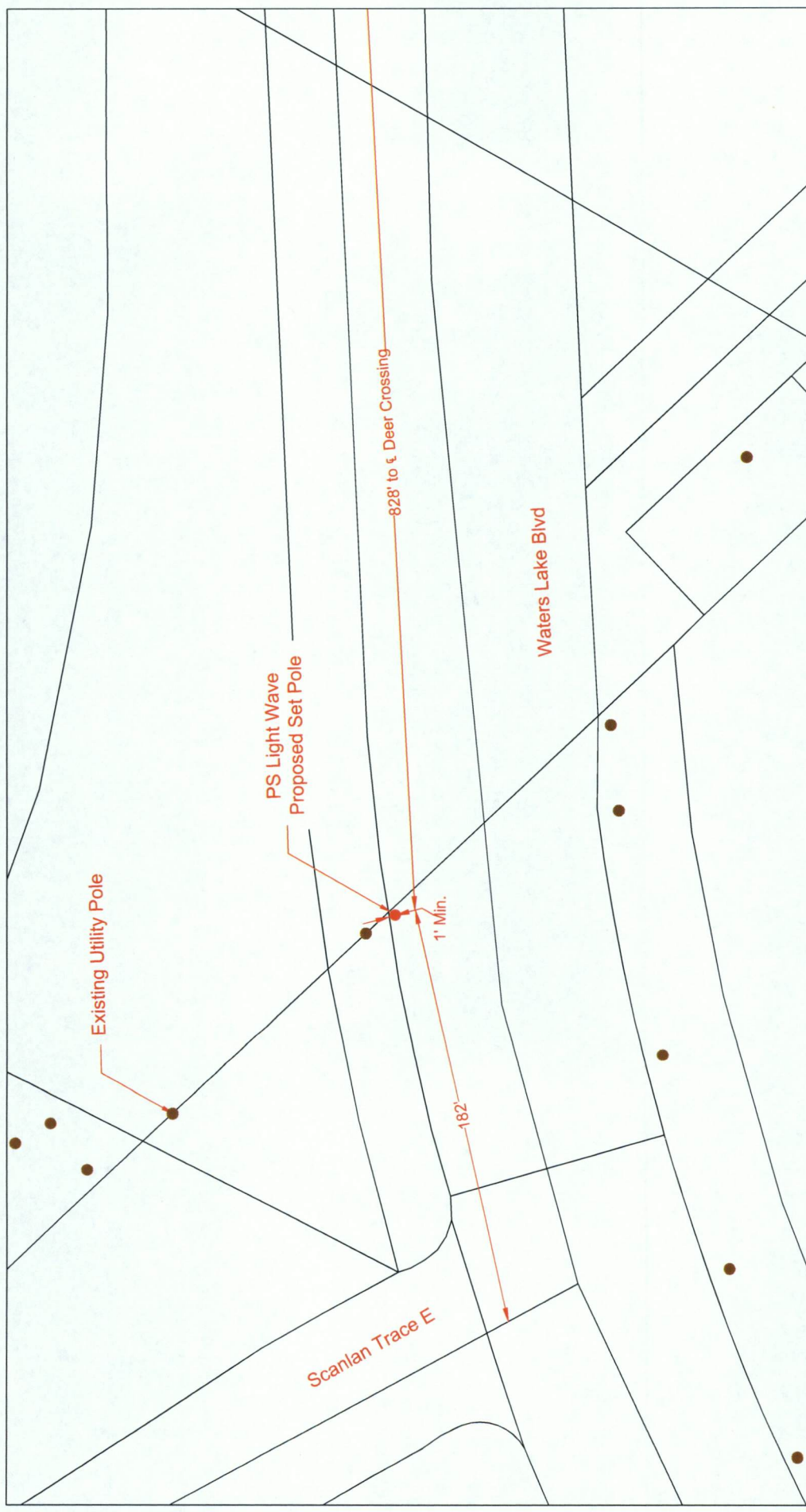
We have reviewed this project and agree it meets minimum requirements.

Charles O. Ay

Permit Administrator

1/31/17

Date



LEGEND

UG	3(1") HDPE W/ F.O. CABLE	PROPOSED CONDUIT	PSLW SET POLE
UG	3(1.25") HDPE W/ F.O. CABLE	EXISTING CONDUIT	EXISTING SET POLE
UG	1(2") HDPE W/ F.O. CABLE	1.25" EMT	EXISTING UTILITY POLE
UG	1(4") HDPE W/ 3(1.25") HDPE	R/W	PROPOSED PSLW VAULT (24"x36"x24")
UG	FLEX INNERDUCT	RIGHT-OF-WAY	EXISTING VAULT
AIR	AERIAL FIBER OPTIC CABLE	EDGE-OF-PAVEMENT	PULLBOX
CATS5	CATS5 CABLE	FENCE	MDF LOCATION

CUSTOMER ID: JOB# 0616-843

CUSTOMER: Notice Of Proposed Utility Installation

ADDRESS: Waters Lake Blvd

CITY/ZIP: Missouri City, TX 77459

COUNTY: Fort Bend

REVISION#1: Rev#1

REVISION#2: Rev#2

REVISION#3: Rev#3

REVISION#4: Rev#4

DATE: Rev#1 Date

DATE: Rev#2 Date

DATE: Rev#3 Date

DATE: Rev#4 Date

SCALE: 1"=40'

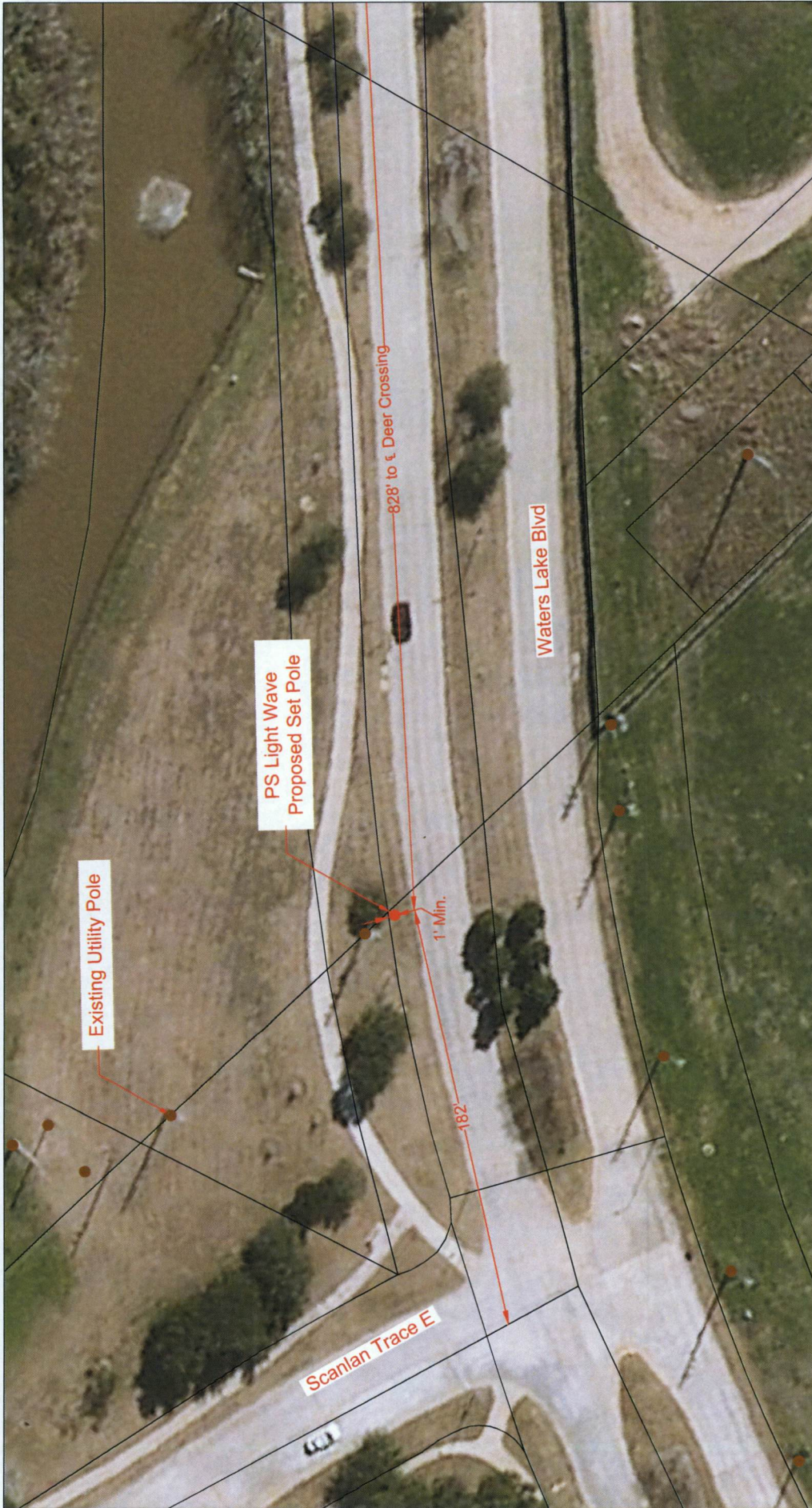
PAGE: 1

OF: 3

PS LIGHTWAVE
PROPRIETARY INFORMATION - PROPERTY OF PSLIGHTWAVE

APPROVED BY:

DATE:



Existing Utility Pole

PS Light Wave
Proposed Set Pole

828' to Deer Crossing

1' Min.

182'

Waters Lake Blvd

Scanlan Trace E

		CUSTOMER ID: JOB# 0616-843	
PROPRIETARY INFORMATION - PROPERTY OF PS LIGHTWAVE		CUSTOMER: Notice of Proposed Utility Installation	
ADDRESS: Waters Lake Blvd		CITY/ZIP: Missouri City, TX 77459	
COUNTY: Fort Bend		DWG#:	
DATE: Rev#1 Date		# OF FLOORS:	
DATE: Rev#2 Date		JOB#: 0616-843	
DATE: Rev#3 Date		DRAWN BY: P.E.	
DATE: Rev#4 Date		DATE: 01/16/17	
APPROVED BY:		DATE:	

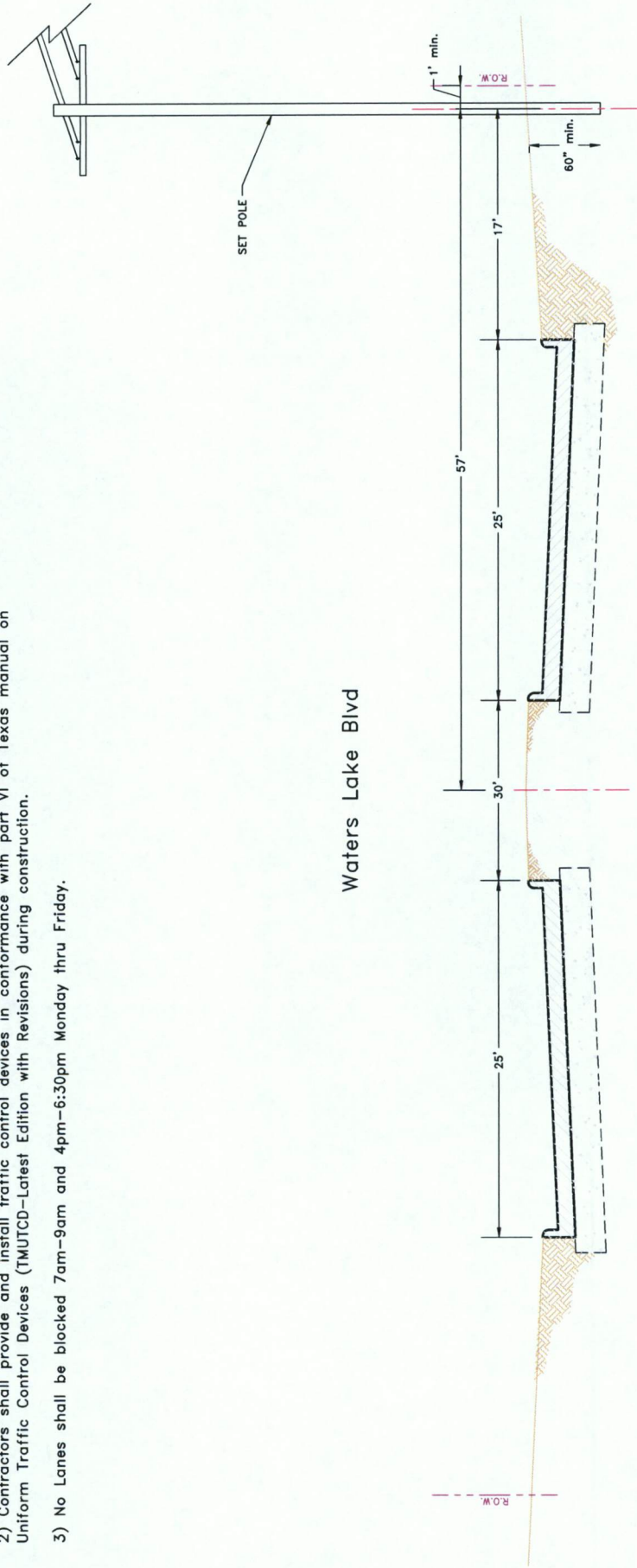
SCALE: 1"=40' PAGE: 2 OF: 3	REVISION#1: Rev#1 REVISION#2: Rev#2 REVISION#3: Rev#3 REVISION#4: Rev#4
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PROPOSED CONDUIT EXISTING CONDUIT 1.25" EMT R/W EDGE-OF-PAVEMENT FENCE RACK LOCATION	PSLW SET POLE EXISTING SET POLE EXISTING UTILITY POLE PROPOSED PSLW VAULT (24"x36"x24") EXISTING VAULT PULLBOX MDF LOCATION
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3(1") HDPE W/ F.O. CABLE 3(1.25") HDPE W/ F.O. CABLE 1(2") HDPE W/ F.O. CABLE 1(4") HDPE W/ 3(1.25")HOPE FLEX INNERDUCT AIR CAT5	PROPOSED CONDUIT EXISTING CONDUIT 1.25" EMT R/W EDGE-OF-PAVEMENT FENCE RACK LOCATION
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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.



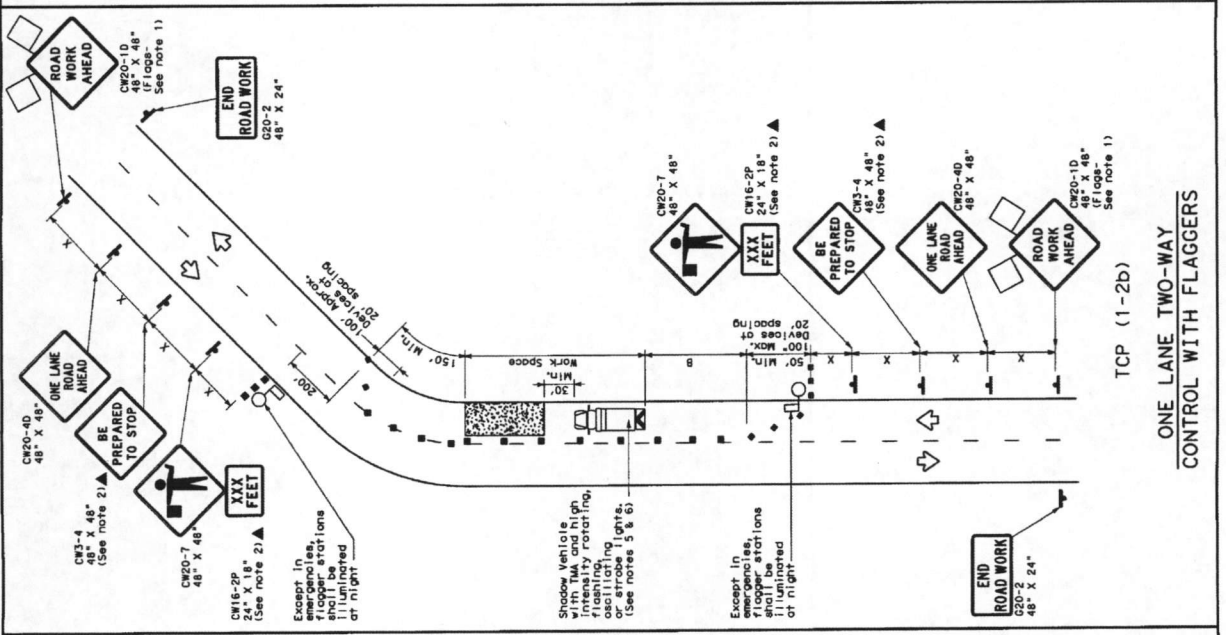
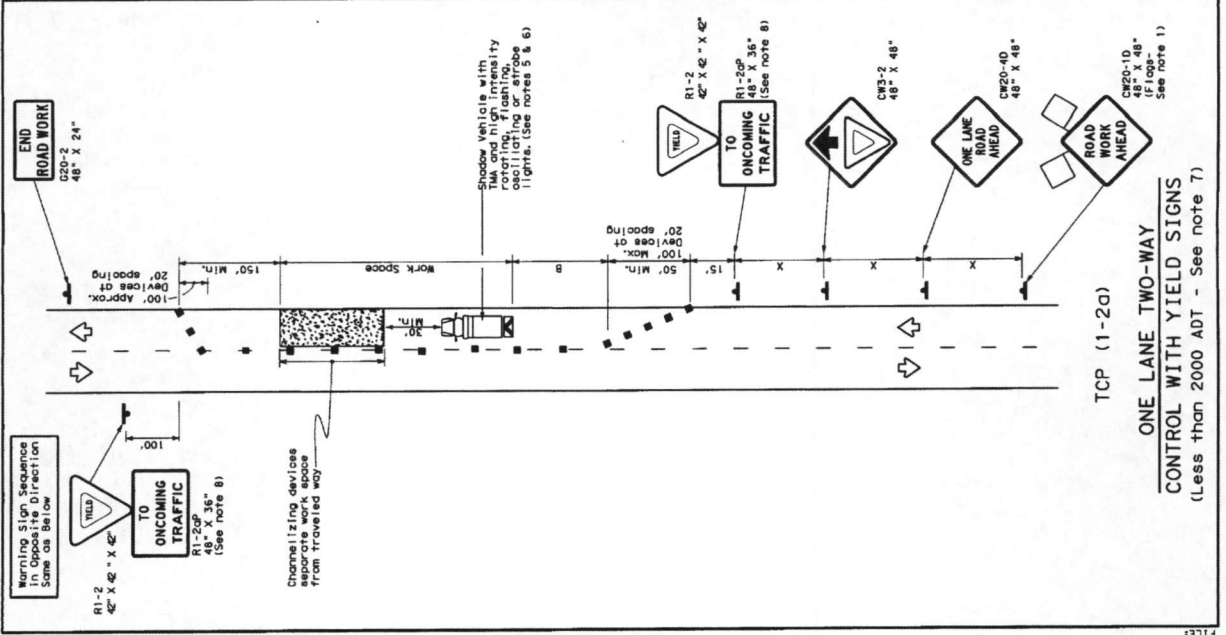
Waters Lake Blvd

		Job# 0616-843 Description: Notice Of Proposed Utility Installation ADDRESS: Waters Lake Blvd CITY/ZIP: Missouri City, TX 77459 COUNTY: Fort Bend	
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: 3	# OF FLOORS: DWG#: JOB#: 0616-843 DRAWN BY: PE DATE: 01/16/17	APPROVED BY:	

LEGEND

	3(1") PVC W/ F.O. CABLE		PSLW SET POLE
	3(1.25") PVC W/ F.O. CABLE		EXISTING SET POLE
	1(2") PVC W/ F.O. CABLE		EXISTING UTILITY POLE
	1(4") HDPE W/ 3(1.25")PVC		PROPOSED PSLW VAULT (24"x36"x24")
	FLEX INNERDUCT		EXISTING VAULT
	AIR		PULLBOX
	AERIAL FIBER OPTIC CABLE		MDF LOCATION
	CATS CABLE		PROPOSED PSLW VAULT (24"x36"x24")
			EXISTING VAULT
			PULLBOX
			MDF LOCATION

DISCLAIMER: The use of this standard is governed by the "Take Notice or Responsibility" for the contractor. The use of this standard to other formats or for incorrect results or damages resulting from its use. Kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the contractor. DATE: FILE:



LEGEND

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

Posted Speed	Minimum Distance	Suggested Spacing of Channelizing Devices	Minimum Spacing of Channelizing Devices	Suggested Maximum Spacing of Channelizing Devices	Stopping Distance
30	10'	11'	12'	90'	200'
35	150'	185'	190'	120'	250'
40	225'	245'	250'	150'	300'
45	300'	320'	325'	180'	350'
50	375'	400'	405'	210'	400'
55	450'	480'	485'	240'	450'
60	525'	560'	565'	270'	500'
65	600'	640'	645'	300'	550'
70	675'	720'	725'	330'	600'
75	750'	800'	805'	360'	650'

* Conventional Roads Only
** Limited to emergency situations

L = Length of Lane (FT) Width or Offset (FT) S = Posted Speed (MPH)

TYPICAL USAGE

MOBILE	SURVEY	STATIONARY	INTERMEDIATE	LONG TERM
✓	✓	✓	✓	✓

GENERAL NOTES

- Flage attached to signs where shown are REQUIRED, except those denoted with the triangle symbol may be omitted when stored elsewhere in the plans, or for routine maintenance.
- The CW3-4 "BE PREPARED TO STOP" sign may be installed after the CW20-40 "ONE LANE ROAD AHEAD" sign, but proper sign spacing shall be maintained.
- Sign spacing may be increased or an additional CW20-10 "ROAD WORK AHEAD" sign may be placed 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 shall be used to protect the work area.
- Additional Shadow Vehicles with TMA shall be positioned off the paved surface, next to those shown in order to protect wider work spaces.

TCP (1-2a)

- R1-2 "YIELD" sign traffic control may be used on projects with approaches that have adequate sight distance. For projects in urban areas, work spaces should be no longer than one half city block. In rural areas on roadways with less than 2000 ADT, work spaces should be no longer than 200 feet.
- Including TRAFFIC" plaque shall be placed on a support at a 7 foot minimum mounting height.

TCP (1-2b)

- Flaggers should use heavy-duty radios or other methods of communication to control traffic.
- Length of work spaces should be based on the ability of flaggers to communicate.
- If the work space is located near a horizontal or vertical curve, the buffer distance should be increased in order to maintain adequate stopping sight distance to the flagger and a queue of stopped vehicles. (See table above).
- Flaggers may be omitted when a pilot car is leading traffic and approved by the Engineer.
- Flaggers should use 24" STOP/SLOW plaques to control traffic. Flage should be limited to emergency situations.

Texas Department of Transportation
Traffic Operations Division

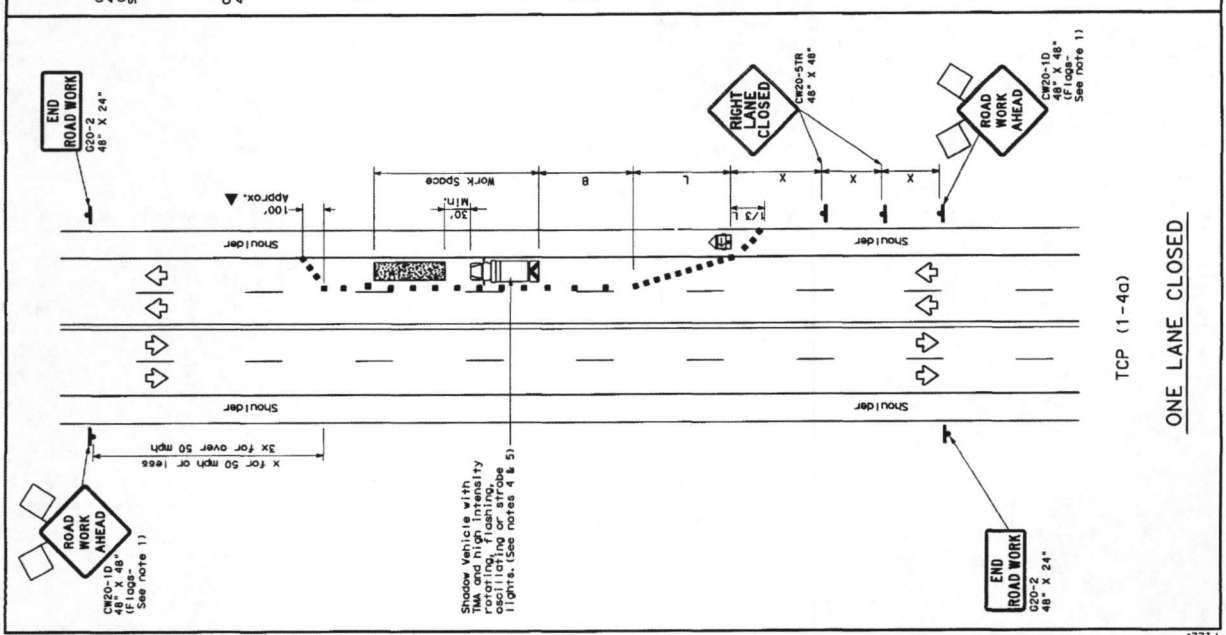
TRAFFIC CONTROL PLAN
ONE-LANE TWO-WAY
TRAFFIC CONTROL

TCP (1-2)-12

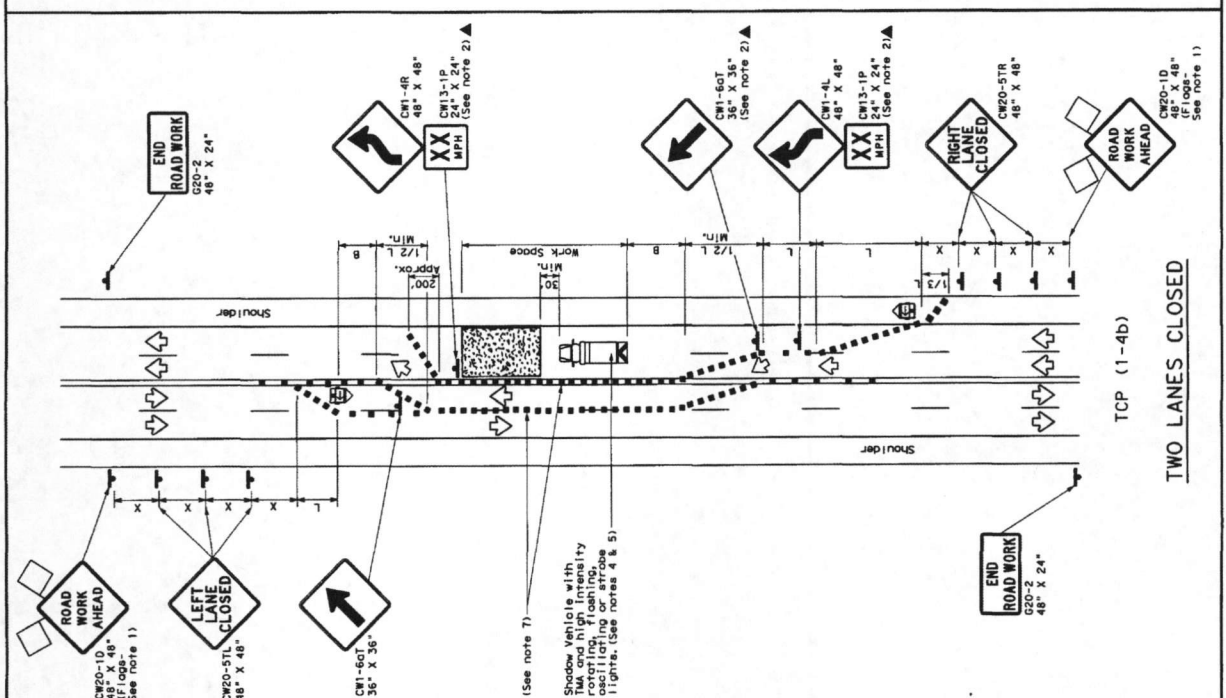
4-90	1-12	10/1000	10/1000	10/1000	10/1000
REVISED	DATE	BY	CHKD	APPD	ISSUED
1-12	1-12				
REVISED	DATE	BY	CHKD	APPD	ISSUED
1-12	1-12				

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DATE: FILE: DISCLAIMER: The use of this standard is governed by the Texas Engineering Practice Act. No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the correctness or completeness of this standard or for incorrect results or damages resulting from its use.



TCP (1-4c)
ONE LANE CLOSED



TCP (1-4b)
TWO LANES CLOSED

LEGEND

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

Table 1: Recommended Spacing of Channelizing Devices

Recommended Speed, mph	Minimum Taper Length, ft	Suggested Maximum Spacing of Channelizing Devices, ft	Minimum Spacing of Heavy Work Vehicle, ft	Minimum Spacing of Trailer Mounted Flashing Arrow Board, ft	Minimum Spacing of Flag, ft
30	150'	165'	180'	30'	60'
35	205'	225'	245'	35'	70'
40	265'	295'	320'	40'	80'
45	450'	495'	540'	45'	90'
50	500'	550'	600'	50'	100'
55	550'	605'	660'	55'	110'
60	600'	660'	720'	60'	120'
65	650'	715'	780'	65'	130'
70	700'	770'	840'	70'	140'
75	750'	825'	900'	75'	150'
80	800'	880'	960'	80'	160'
85	850'	935'	1020'	85'	170'
90	900'	990'	1080'	90'	180'
95	950'	1045'	1140'	95'	190'
100	1000'	1100'	1200'	100'	200'
105	1050'	1155'	1260'	105'	210'
110	1100'	1210'	1320'	110'	220'
115	1150'	1265'	1380'	115'	230'
120	1200'	1320'	1440'	120'	240'
125	1250'	1375'	1500'	125'	250'
130	1300'	1430'	1560'	130'	260'
135	1350'	1485'	1620'	135'	270'
140	1400'	1540'	1680'	140'	280'
145	1450'	1595'	1740'	145'	290'
150	1500'	1650'	1800'	150'	300'

Table 2: Typical Usage

Mobile	Short Term Stationary	Intermediate Term Stationary	Long Term Stationary
✓	✓	✓	✓

GENERAL NOTES

- Flare attached to sign where shown are REQUIRED.
- All traffic control devices illustrated are REQUIRED, except those denoted as optional. All devices shall be approved by the Engineer.
- The CR20-10 "ROAD WORK AHEAD" sign may be replaced if the following conditions are met:
 - 1. Visibility of the work zone is less than 1500 feet.
 - 2. A shadow vehicle with a TMA should be used anytime it can be positioned in the work zone.
 - 3. The performance or quality of the work, if workers are to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
 - 4. This may be positioned off the paved surface, next to those shown in order to protect other work areas.
- TCP (1-4g)
 - 1. This TCP is used for a left lane closure.
 - 2. This TCP is used for a right lane closure.
 - 3. This TCP is used for a center lane closure.
 - 4. This TCP is used for a center lane closure with a center line where needed to protect the work area from opposing traffic with the arrow panel placed in the closed lane near the end of the tapering taper.
- TCP (1-4b)
 - 1. Where traffic is directed over a yellow centerline, channelizing devices which separate two-way traffic should be spaced on tapers at 20' or 15' if posted speeds are 35 mph or slower, and for tangent sections, at 1/2S where S is the speed in mph. This tighter device spacing is intended for the areas of conflicting markings, not the entire work zone.

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

Texas Department of Transportation
Traffic Operations Division

TRAFFIC CONTROL PLAN
LANE CLOSURES ON MULTILANE
CONVENTIONAL ROADS

TCP (1-4) - 12

DATE	1-11	BY	1-11
REVISED		DATE	
BY		DATE	
BY		DATE	
BY		DATE	
BY		DATE	

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For construction or maintenance contract work, the use of shadow vehicles can be found in the GENERAL NOTES for Item 502, Barricades, Signs and Traffic Handing.