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

REVIEW BY FORT BEND COUNTY COMMISSIONERS COURT

[X] **Right of Way Permit**

[ ] **Commercial Driveway Permit**

Permit No: 2017-13296

Applicant: **PS Light Wave, Inc.**

Job Location Site: **16510 Bissonnet Street, 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 inconsistant with Chapter 181, Vernon's Texas Statutes and Codes Annoted.

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 May, 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

By: Charles O. Dy
for County Engineer

By: N/A
Drainage District Engineer/Manager

Presented to Commissioners Court and approved.

Date Recorded 5-8-2017 Comm. Court No. 9I

Clerk of Commissioners Court

By: Linda Wills
Deputy

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

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

[X] **Right of Way Permit**

[ ] **Commercial Driveway Permit**

Permit No: 2017-13296

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:

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

(2) BOND:

- [ ] County Attorney, approval when applicable.
- [X] Perpetual bond currently posted. Bond No: [redacted] Amount: $50,000.00
- [ ] Performance bond submitted. Bond No: Amount:
- [ ] Cashier's Check Check No: Amount:

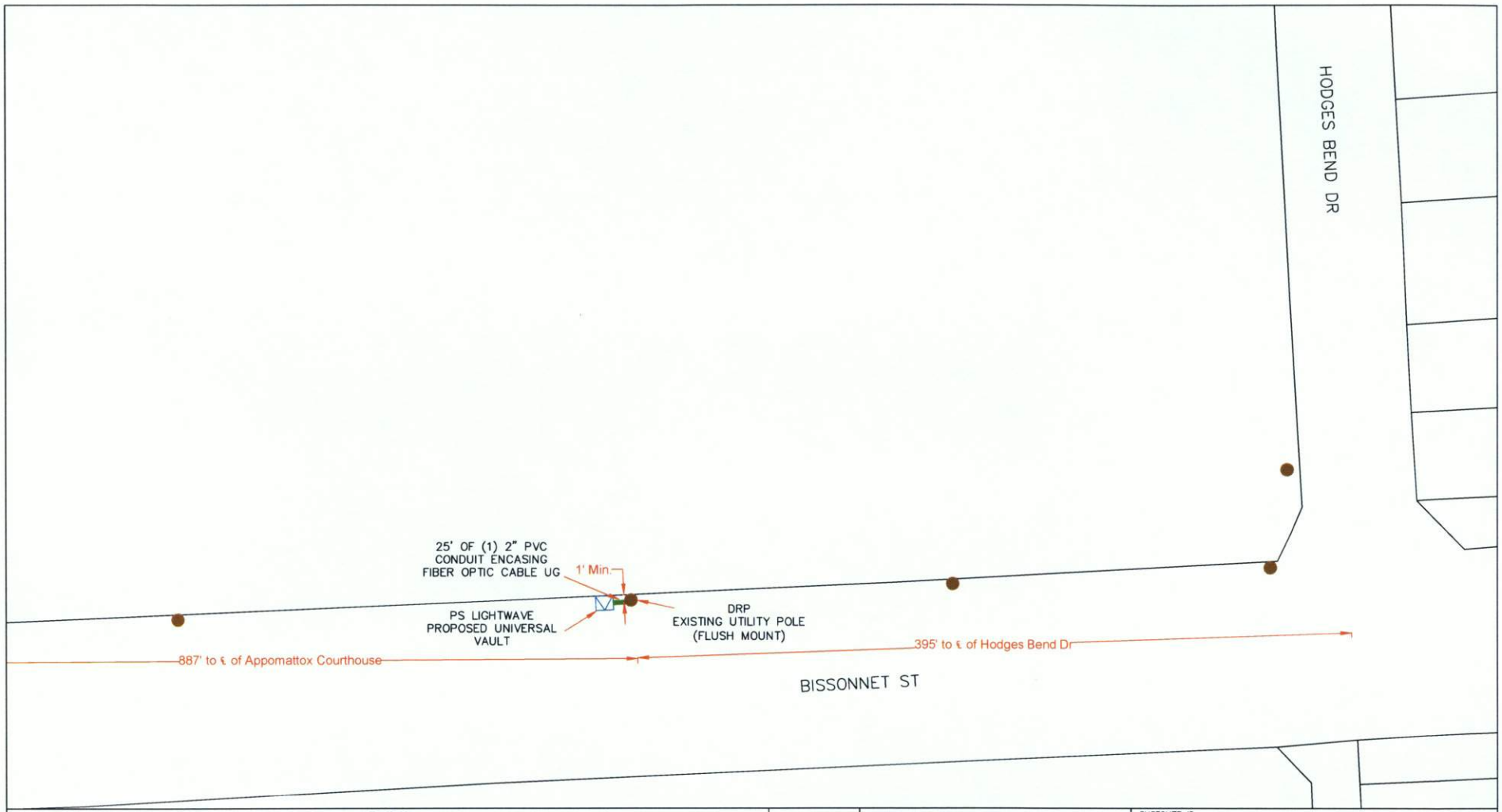
(3) DRAINAGE DISTRICT APPROVAL (WHEN APPLICABLE):

Drainage District Approval _____ Date _____

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

Charles O. Ay
Permit Administrator

4/24/17
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	EMT — 1.25" EMT	EXISTING UTILITY POLE
UG — 1(4") HDPE W/ 3(1.25")HDPE	R/W — RIGHT-OF-WAY	PROPOSED PSLW VAULT (24"x36"24")
FLEX INNERDUCT (INSIDE)	EOP — EDGE-OF-PAVEMENT	EXISTING VAULT
AIR — AERIAL FIBER OPTIC CABLE	FENCE	PULLBOX
CAT5 — CAT5 CABLE	RACK LOCATION	MDF LOCATION

SCALE: 1"=50'
PAGE: 1
OF: 3

PURE SPEED LIGHTWAVE

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

CUSTOMER ID: JOB# 0616-692 PLW
CUSTOMER: Notice of Proposed Utility Installation
ADDRESS: 16510 Bissonnet st
CITY/ZIP: Houston, TX 77083 | COUNTY: Fort Bend
TENANTS: | # OF FLOORS: | DWG#: | KEY MAP: 527T
WO#: 93548 | JOB#: 0616-692 | DRAWN BY: GG | DATE: 04/10/17
APPROVED BY: | 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	EMT — 1.25" EMT	EXISTING UTILITY POLE
UG — 1(4") HDPE W/ 3(1.25")HDPE	R/W — RIGHT-OF-WAY	PROPOSED PSLW VAULT (24"x36"24")
FLEX INNERDUCT (INSIDE)	EOP — EDGE-OF-PAVEMENT	EXISTING VAULT
AIR — AERIAL FIBER OPTIC CABLE	FENCE	PULLBOX
CAT5 — CAT5 CABLE	RACK LOCATION	MDF LOCATION

SCALE: 1"=50'
PAGE: 2
OF: 3

PURE SPEED LIGHTWAVE

PROPRIETARY INFORMATION - PROPERTY OF PS LIGHTWAVE

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

CUSTOMER ID: JOB# 0616-692 PLW

CUSTOMER: Notice of Proposed Utility Installation

ADDRESS: 16510 Bissonnet st

CITY/ZIP: Houston, TX 77083 | COUNTY: Fort Bend

TENANTS: | # OF FLOORS: | DWG#: | KEY MAP: 527T

WO#: 93548 | JOB#: 0616-692 | DRAWN BY: GG | DATE: 04/10/17

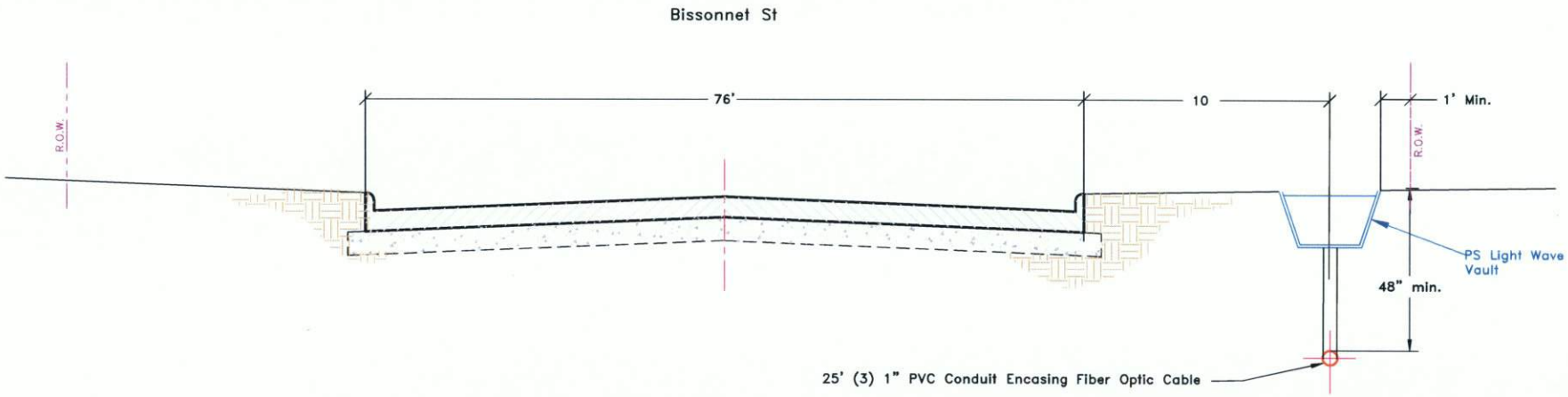
APPROVED BY: | DATE:

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

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	EMT — 1.25" EMT	EXISTING UTILITY POLE
UG — 1(4") HDPE W/ 3(1.25")HDPE	R/W — RIGHT-OF-WAY	PROPOSED PSLW VAULT (24"x36"24")
FLEX INNERDUCT	EOP — EDGE-OF-PAVEMENT	EXISTING VAULT
AIR — AERIAL FIBER OPTIC CABLE	FENCE	PULLBOX
CAT5 — CAT5 CABLE	RACK LOCATION	MDF LOCATION

SCALE: N.T.S
PAGE: 3
OF: 3

PURE SPEED LIGHTWAVE

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

Job# JOB# 0616-838 PLW

Description: Notice of Proposed Utility Installation

ADDRESS: 16403 Lexington Blvd

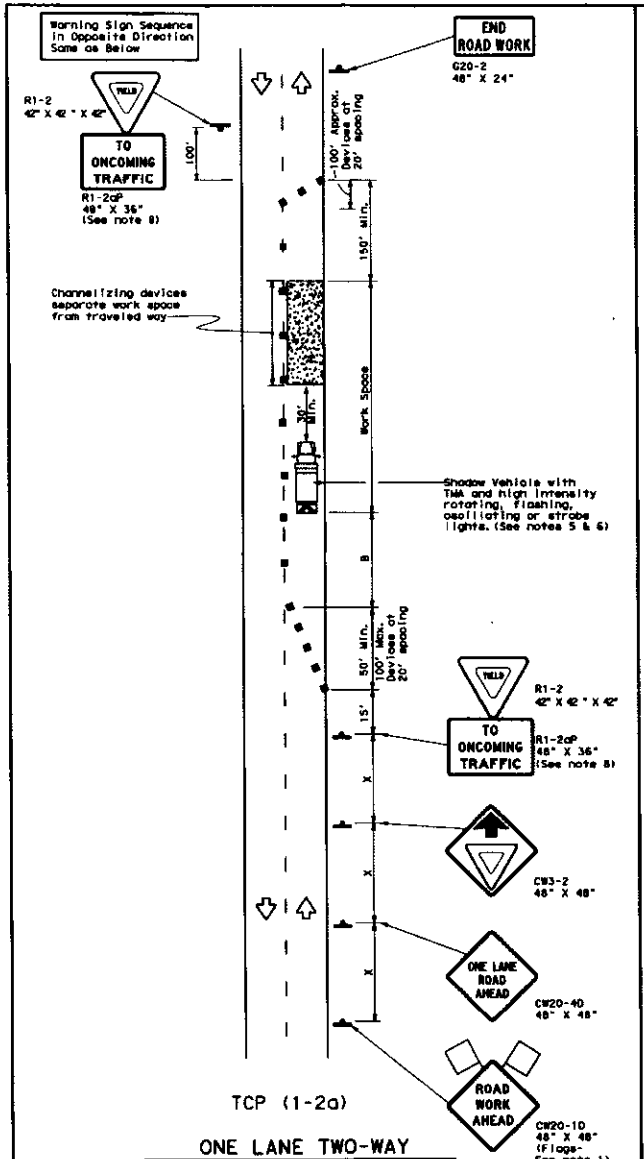
CITY/ZIP: Sugar Land , TX 77479 | COUNTY: Fort Bend

TENANTS: | # OF FLOORS: | DWG#: | KEY MAP: 608B

WO#: 90328 | JOB#: 0616-838 | DRAWN BY: GG | DATE: 02/03/17

APPROVED BY: | DATE:

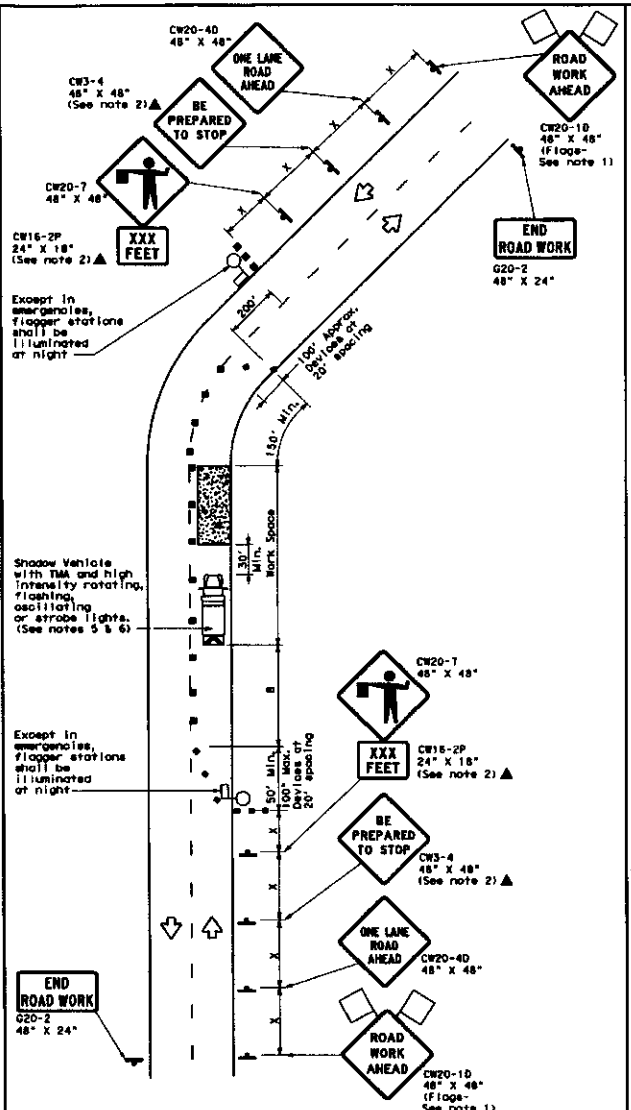
DATE:
FILE:



TCP (1-2a)

ONE LANE TWO-WAY CONTROL WITH YIELD SIGNS

(Less than 2000 ADT - See note 7)



TCP (1-2b)

ONE LANE TWO-WAY CONTROL WITH FLAGGERS

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 ** 10' Offset	11' Offset	12' Offset	Suggested Maximum Spacing of Channelizing Devices On a Taper	On a Tangent	Minimum Sign Spacing "X" Distance	Suggested Longitudinal Buffer Space "B"	Stopping Sight Distance
30	$L=\frac{WS^2}{60}$	150'	165'	180'	30'	60'	120'	90'	200'
35		205'	225'	245'	35'	70'	160'	120'	250'
40		265'	295'	320'	40'	80'	240'	155'	305'
45	L=WS	450'	495'	540'	45'	90'	320'	195'	360'
50		500'	550'	600'	50'	100'	400'	240'	425'
55		550'	605'	660'	55'	110'	500'	295'	495'
60		600'	660'	720'	60'	120'	600'	350'	570'
65		650'	715'	780'	65'	130'	700'	410'	645'
70		700'	770'	840'	70'	140'	800'	475'	730'
75		750'	825'	900'	75'	150'	900'	540'	820'

* Conventional Roads Only
** Taper lengths have been rounded off.
L=Length of Taper(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

1. Flags attached to signs where shown are REQUIRED.
2. All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated elsewhere in the plans, or for routine maintenance work, when approved by the Engineer.
3. The CW3-4 "BE PREPARED TO STOP" sign may be installed after the CW20-4D "ONE LANE ROAD AHEAD" sign, but proper sign spacing shall be maintained.
4. Sign spacing may be increased or an additional CW20-1D "ROAD WORK AHEAD" sign may be used if advance warning ahead of the flagger or R1-2 "YIELD" sign is less than 1500 feet.
5. 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.
6. Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown in order to protect wider work spaces.

TCP (1-2a)

7. 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 400 feet.
8. R1-2 "YIELD" sign with R1-2aP "TO ONCOMING TRAFFIC" plaque shall be placed on a support at a 7 foot 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 should be increased in order to maintain adequate stopping sight distance to the flagger and a queue of stopped vehicles (see table above).
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 limited to emergency situations.

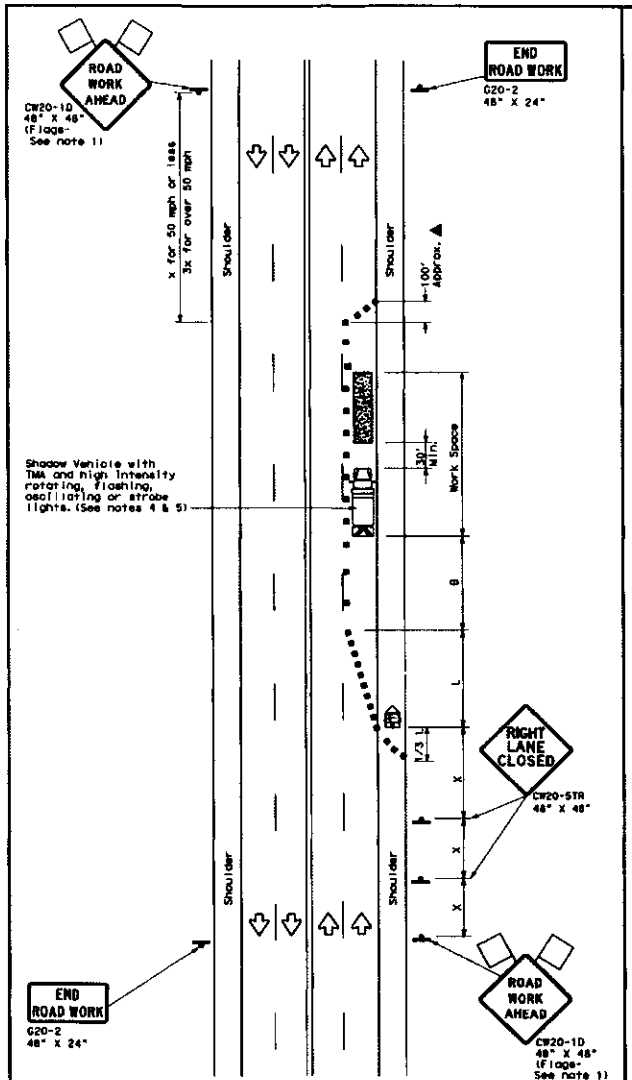
For construction or maintenance contract work, specific project requirements for shadow vehicles can be found in the project GENERAL NOTES for Item 502, Barricades, Signs and Traffic Handling.

Texas Department of Transportation
Traffic Operations Division

TRAFFIC CONTROL PLAN ONE-LANE TWO-WAY TRAFFIC CONTROL

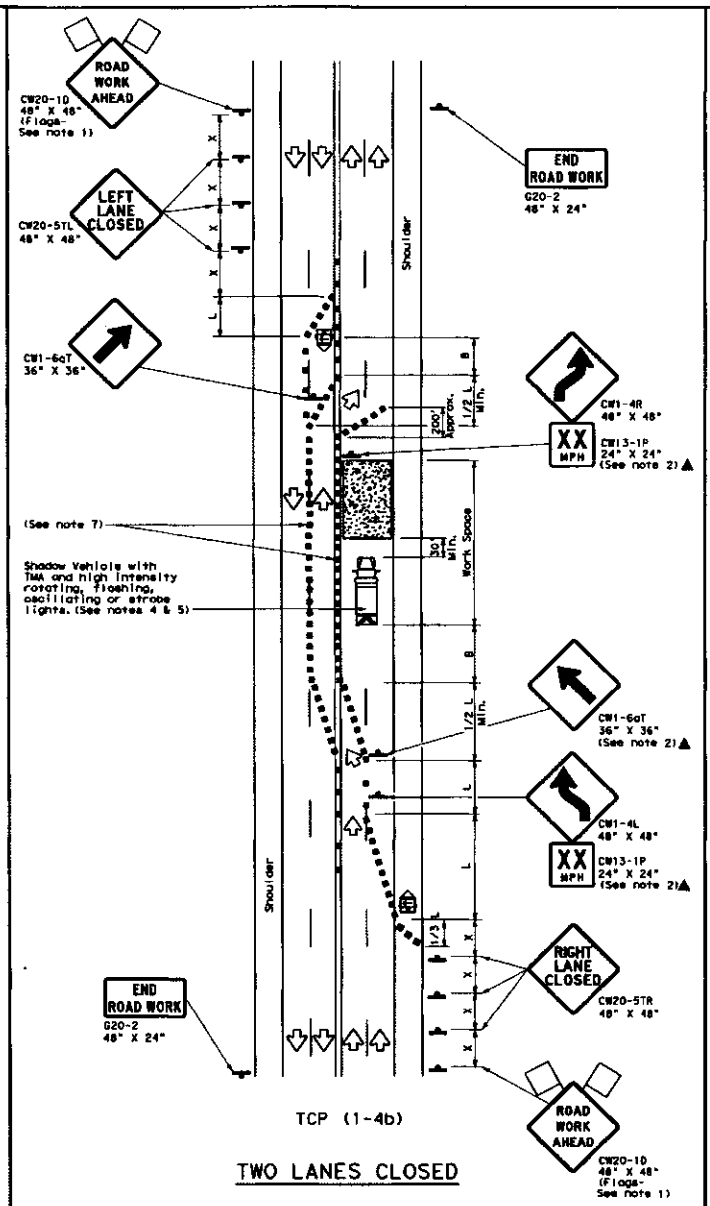
TCP(1-2)-12

REVISIONS		DIST	COUNTY	SHEET NO.
4-90	1-12			
2-94				
1-97				
4-98				



TCP (1-4a)

ONE LANE CLOSED



TCP (1-4b)

TWO LANES CLOSED

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

Posted Speed *	Formula	Minimum Desirable Taper Lengths ** 10' Offset	11' Offset	12' Offset	Suggested Maximum Spacing of Channelizing Devices On a Taper	On a Tangent	Minimum Sign Spacing "X" Distance	Suggested Longitudinal Buffer Space "B"
30	$L=\frac{WS^2}{60}$	150'	165'	180'	30'	60'	120'	90'
35		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'	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 Speed(MPH)

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

GENERAL NOTES

1. Flags attached to signs where shown are REQUIRED.
2. All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated elsewhere in the plans, or for routine maintenance work, when approved by the Engineer.
3. The CW20-1D "ROAD WORK AHEAD" sign may be repeated if the visibility of the work zone is less than 1500 feet.
4. 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.
5. Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown in order to protect wider work spaces.

TCP (1-4a)

6. If this TCP is used for a left lane closure , CW20-5TL "LEFT LANE CLOSED" signs shall be used and channelizing devices shall be placed on the centerline where needed to protect the work space from opposing traffic with the arrow panel placed in the closed lane near the end of the merging taper.

TCP (1-4b)

7. 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, or 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.

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

Texas Department of Transportation
Traffic Operations Division

TRAFFIC CONTROL PLAN
LANE CLOSURES ON MULTILANE CONVENTIONAL ROADS

TCP(1-4)-12

DATE:
FILE:

REVISIONS			
2-94	1-12		
8-95			
1-97			
4-98			

DIST	COUNTY	SHEET NO.

154