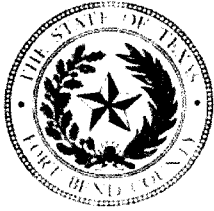


By: Andre Willis
Deputy



**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@fortbendcountytexas.gov

☒ Right of Way Permit
☐ Commercial Driveway Permit
Permit No: 2017-11943

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

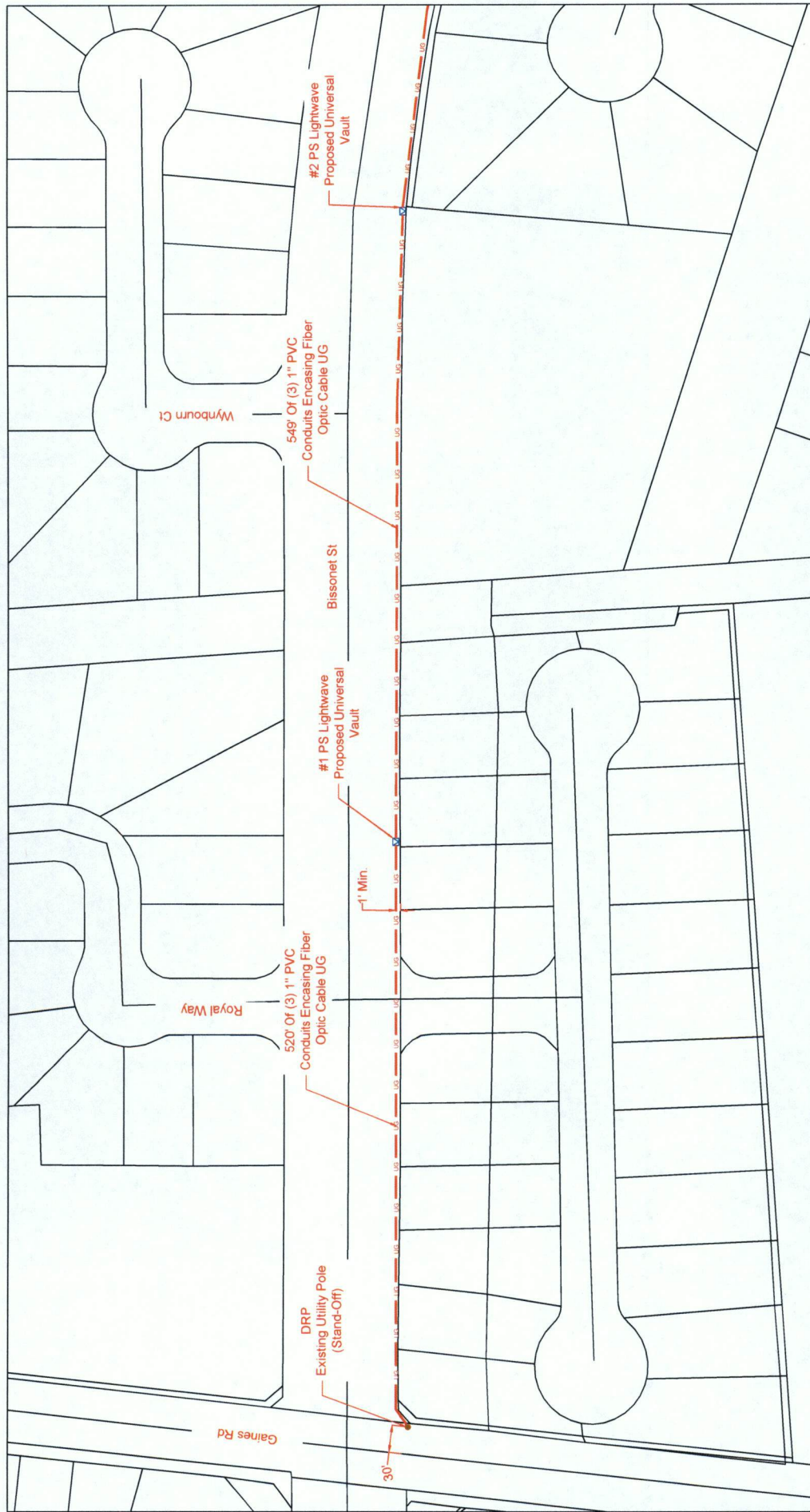
Date

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

Charles O. Ay

Permit Administrator

2/21/17
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	EXISTING UTILITY POLE
UG	1(4") HDPE W/ 3(1.25") HDPE	R/W	PROPOSED PSLW VAULT (24"x36"x24")
---	FLEX INNERDUCT	RIGHT-OF-WAY	EXISTING VAULT
---	AERIAL FIBER OPTIC CABLE	EDGE-OF-PAVEMENT	PULLBOX
CAT5	CAT5 CABLE	FENCE	MDF LOCATION

Lightwave
PROPRIETARY INFORMATION - PROPERTY OF PSLIGHTWAVE

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: 1"=80'
PAGE: 1 OF: 7

CUSTOMER ID: JOB# 0616-842 PLW

CUSTOMER: Notice of Proposed Utility Installation

ADDRESS: Bissonnet St

CITY/ZIP: Houston, TX 77083

TENANTS: # OF FLOORS: DWG#:

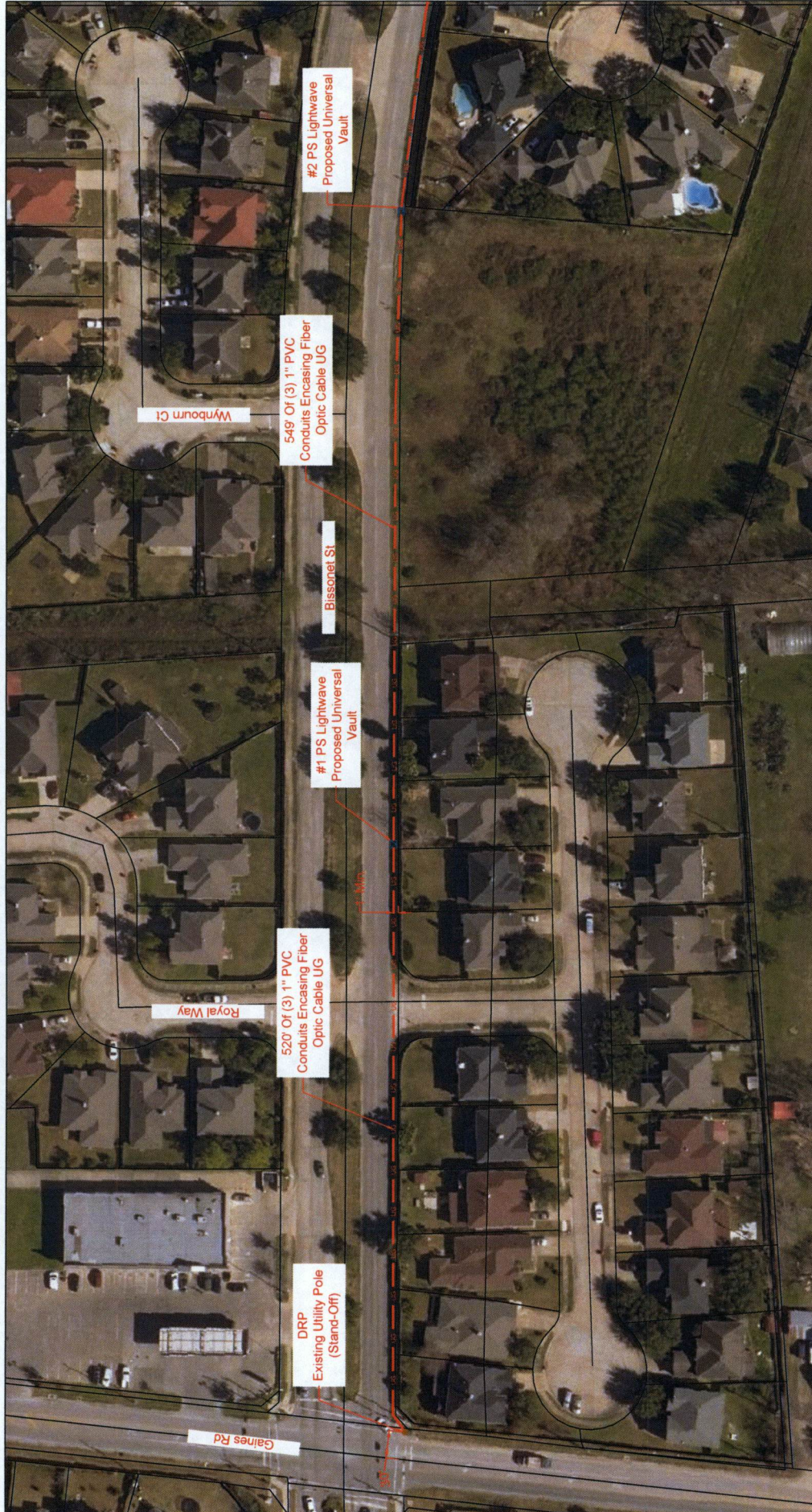
WOF: 91471

DATE: 02/07/17

APPROVED BY: DATE:

KEY MAP: 527V

COUNTY: Fort Bend



LEGEND

UG	3(1") HOPE W/ F.O. CABLE	PSLW SET POLE
UG	3(1.25") HOPE W/ F.O. CABLE	EXISTING SET POLE
UG	1(2") HOPE W/ F.O. CABLE	EXISTING UTILITY POLE
UG	1(4") HOPE W/ 3(1.25")HOPE	PROPOSED PSLW VAULT (24"x36"x24")
UG	FLEX INNERDUCT	EXISTING VAULT
AIR	AERIAL FIBER OPTIC CABLE	PULLBOX
CAT5	CAT5 CABLE	MDF LOCATION

PROPOSED CONDUIT

PROPOSED CONDUIT	1.25" EMT	EDGE-OF-PAVEMENT
EXISTING CONDUIT	R/W	FENCE
1.25" EMT	EDGE-OF-PAVEMENT	RACK LOCATION

PSLW SET POLE

PSLW SET POLE	EXISTING SET POLE	EXISTING UTILITY POLE
EXISTING SET POLE	PROPOSED PSLW VAULT (24"x36"x24")	EXISTING VAULT
EXISTING UTILITY POLE	PULLBOX	MDF LOCATION

EXISTING VAULT

EXISTING VAULT	PULLBOX	MDF LOCATION
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SCALE: 1"=80'

PAGE: 2

OF: 7

REVISIONS:

REVISION#	DATE	REVISION
1	06/16/17	REVISED
2	06/16/17	REVISED
3	06/16/17	REVISED
4	06/16/17	REVISED

CUSTOMER ID: JOB# 0616-842 PLW

CUSTOMER: Notice of Proposed Utility Installation

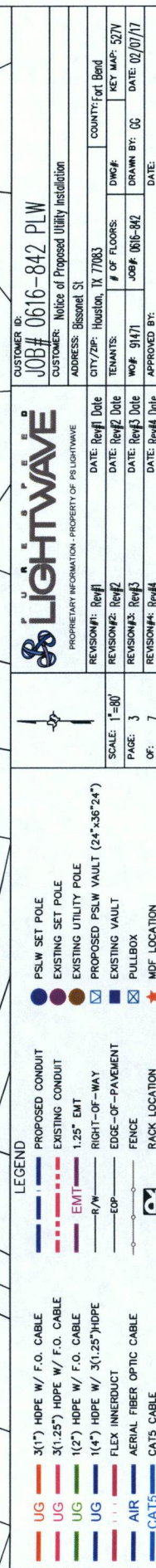
ADDRESS: Bissonet St

CITY/ZIP: Houston, TX 77063

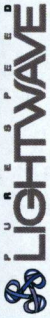
COUNTY: Fort Bend

KEY MAP: 32V

DATE: 02/07/17







PROPRIETARY INFORMATION - PROPERTY OF PSLW

CUSTOMER ID: JOB# 0616-842 PLW

CUSTOMER: Notice of Proposed Utility Installation

ADDRESS: Bissonet St

CITY/ZIP: Houston, TX 77083

COUNTY: Fort Bend

DATE: Rev#1 Date

DATE: Rev#2 Date

DATE: Rev#3 Date

DATE: Rev#4 Date

SCALE: 1"=80'

PAGE: 4

OF: 7

PSLW SET POLE

EXISTING SET POLE

EXISTING UTILITY POLE

PROPOSED PSLW VAULT (24"x36"x24")

EXISTING VAULT

PULLBOX

MDF LOCATION

LEGEND

UG 3(1") HDPE W/ F.O. CABLE

UG 3(1.25") HDPE W/ F.O. CABLE

UG 1(2") HDPE W/ F.O. CABLE

UG 1(4") HDPE W/ 3(0.25") HDPE

FLEX INNERDUCT

AIR AERIAL FIBER OPTIC CABLE

CAT5 CAT5 CABLE

PROPOSED CONDUIT

EXISTING CONDUIT

1.25" EMT

R/W

EDGE-OF-PAVEMENT

FENCE

RACK LOCATION

REVISION#1: Rev#1

REVISION#2: Rev#2

REVISION#3: Rev#3

REVISION#4: Rev#4

TENANTS: # OF FLOORS: DWG#

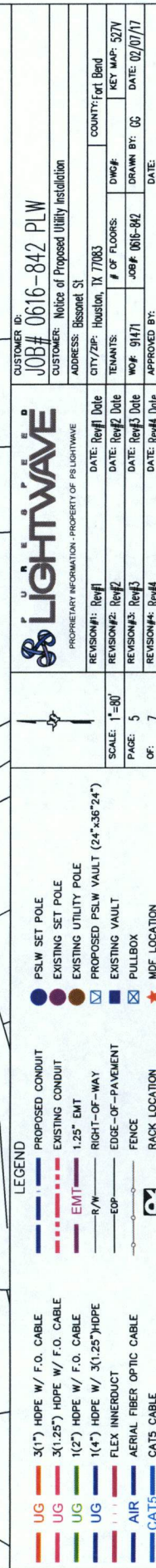
WOF: 91471

JOB# 0616-842

DRAWN BY: CG

DATE: 02/07/17

APPROVED BY:



UNPUBLISHED
LIGHTWAVE
 PROPRIETARY INFORMATION - PROPERTY OF PSLIGHTWAVE

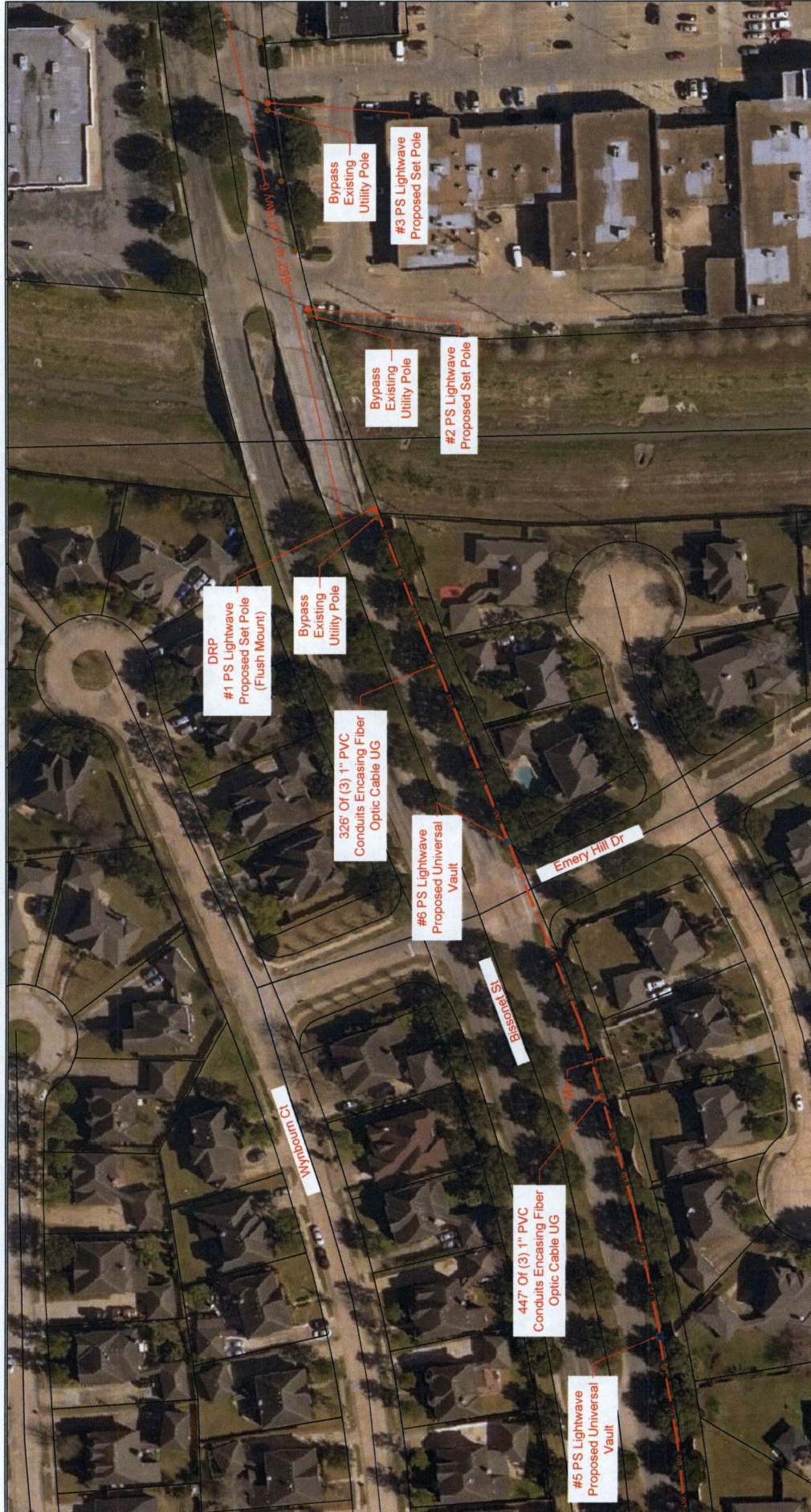
SCALE: 1"=80'	PAGE: 5
	OF: 7

- PSLW SET POLE
- EXISTING SET POLE
- EXISTING UTILITY POLE
- PROPOSED PSLW VAULT (24"x36"x24")
- ▢ EXISTING VAULT
- ▢ PULLBOX
- ★ MDF LOCATION

LEGEND

	PROPOSED CONDUIT
	EXISTING CONDUIT
	1.25" EMT
	R/W
	EQP
	FENCE
	RACK LOCATION

UG	3(1") HDPE W/ F.O. CABLE
UG	3(1.25") HDPE W/ F.O. CABLE
UG	1(2") HDPE W/ F.O. CABLE
UG	1(4") HDPE W/ 3(1.25")HDPE
---	FLEX INNERDUCT
AIR	AERIAL FIBER OPTIC CABLE
CAT5	CATS FIBER



PROPRIETARY INFORMATION - PROPERTY OF PS LIGHTWAVE

SCALE: 1"=80'

PAGE: 6

OF: 7

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")
AIR	FLEX INNERDUCT	EDGE-OF-PAVEMENT	EXISTING VAULT
CAT5	AERIAL FIBER OPTIC CABLE	FENCE	PULLBOX
	CAT5 CABLE	RACK LOCATION	MDF LOCATION

CUSTOMER ID: JOB# 0616-842 PLW

CUSTOMER: Notice of Proposed Utility Installation

ADDRESS: Bessonet St

CITY/ZIP: Houston, TX 77063

DATE: Rev#1 Date

DATE: Rev#2 Date

DATE: Rev#3 Date

DATE: Rev#4 Date

REVISION#1: Rev#1

REVISION#2: Rev#2

REVISION#3: Rev#3

REVISION#4: Rev#4

APPROVED BY: DATE

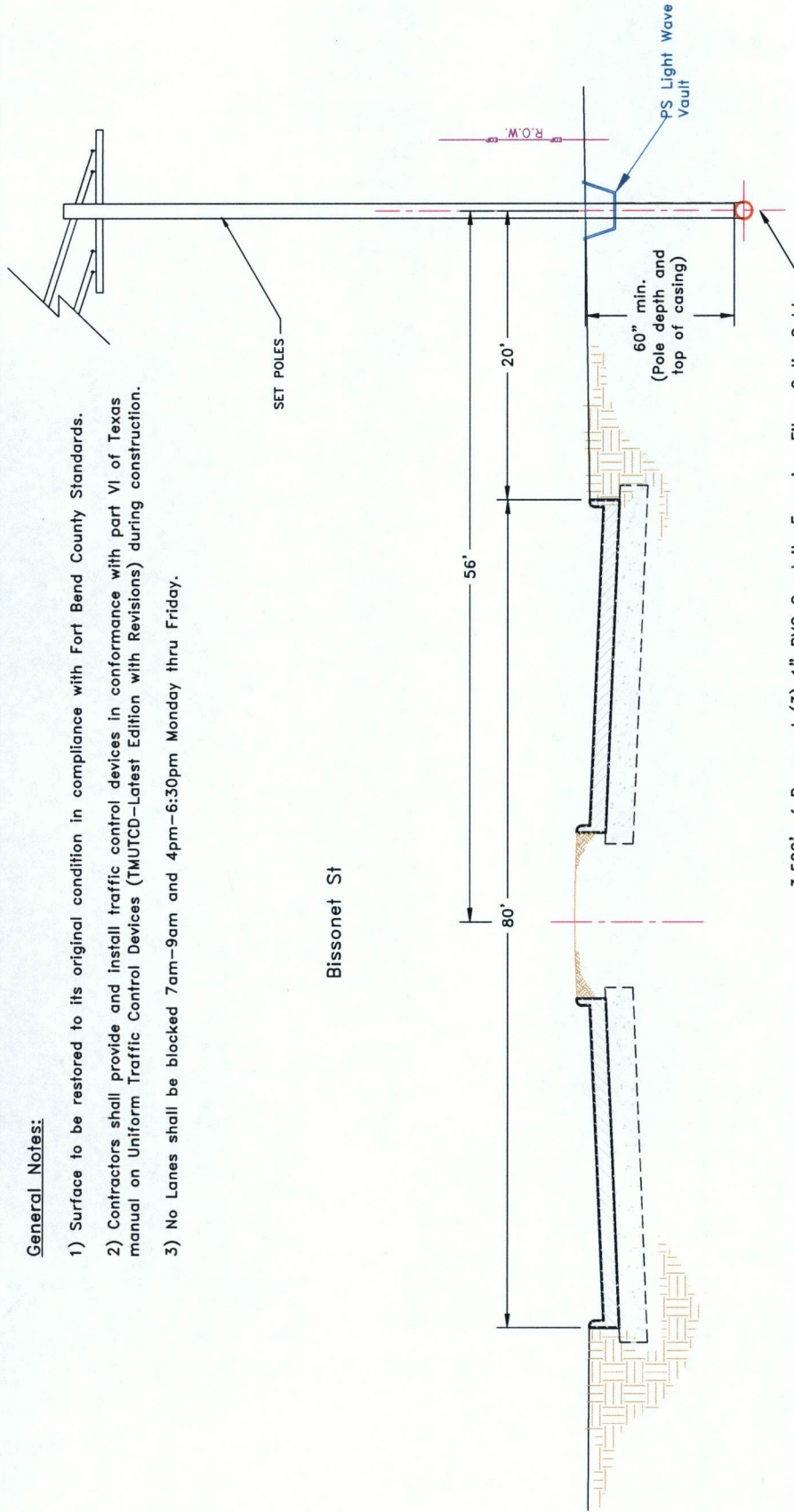
DRAWN BY: DATE

KEY MAP: 527N

DATE: 02/07/17

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.



Bissonet St

3,522' of Proposed (3) 1" PVC Conduits Encasing Fiber Optic Cable

UG 3(1") HDPE W/ F.O. CABLE UG 3(1.25") HDPE W/ F.O. CABLE UG 1(2") HDPE W/ F.O. CABLE UG 1(4") HDPE W/ 3(1.25") HDPE FLX FLEX INNERDUCT AIR AERIAL FIBER OPTIC CABLE CATS CAT5 CABLE										PSLW SET POLE EXISTING SET POLE EXISTING UTILITY POLE 1.25" EMT R/W RIGHT-OF-WAY EOP EDGE-OF-PAVEMENT FENCE RACK LOCATION										PROPOSED CONDUIT EXISTING CONDUIT EMT PROPOSED PSLW VAULT (24"x36"x24") EXISTING VAULT PULLBOX MDF LOCATION										LEGEND										PSLW SET POLE EXISTING SET POLE EXISTING UTILITY POLE 1.25" EMT R/W RIGHT-OF-WAY EOP EDGE-OF-PAVEMENT FENCE RACK LOCATION										PROPOSED CONDUIT EXISTING CONDUIT EMT PROPOSED PSLW VAULT (24"x36"x24") EXISTING VAULT PULLBOX MDF LOCATION										PSLW SET POLE EXISTING SET POLE EXISTING UTILITY POLE 1.25" EMT R/W RIGHT-OF-WAY EOP EDGE-OF-PAVEMENT FENCE RACK LOCATION										PROPOSED CONDUIT EXISTING CONDUIT EMT PROPOSED PSLW VAULT (24"x36"x24") EXISTING VAULT PULLBOX MDF LOCATION										PSLW SET POLE EXISTING SET POLE EXISTING UTILITY POLE 1.25" EMT R/W RIGHT-OF-WAY EOP EDGE-OF-PAVEMENT FENCE RACK 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Tested Speed m/s	Formula	Minimum Twist Length mm	Suggested Twisting Devices	Minimum Spooling Distance m	Supported Longitudinal Barrel Spool m
30	$L = WS^2$	150', 165', 180'	30'	30'	90'
35	$L = WS^2$	205', 225', 245'	35'	70'	120'
40	$L = WS^2$	265', 295', 320'	40'	80'	155'
45	$L = WS^2$	450', 495', 540'	45'	90'	195'
50	$L = WS^2$	550', 595', 660'	55'	110'	295'
55	$L = WS^2$	650', 660', 720'	60'	120'	350'
60	$L = WS^2$	650', 715', 780'	65'	130'	410'
65	$L = WS^2$	700', 770', 840'	70'	140'	475'
70	$L = WS^2$	750', 825', 900'	75'	150'	540'
75	$L = WS^2$	800', 875', 950'	80'	160'	605'

**Taper lengths have been rounded off.

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

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 CM-10-10 "ROAD WORK USED" sign may be replaced if the visibility of the work zone is less than 1500 feet.
4. A Shadow Vehicle with a TMS should be used anytime it can be positioned 200 to 300 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 TMS.
5. Additional Shadow Vehicles with TMS may be positioned off the paved surface, next to those shown in order to protect wider work zones.

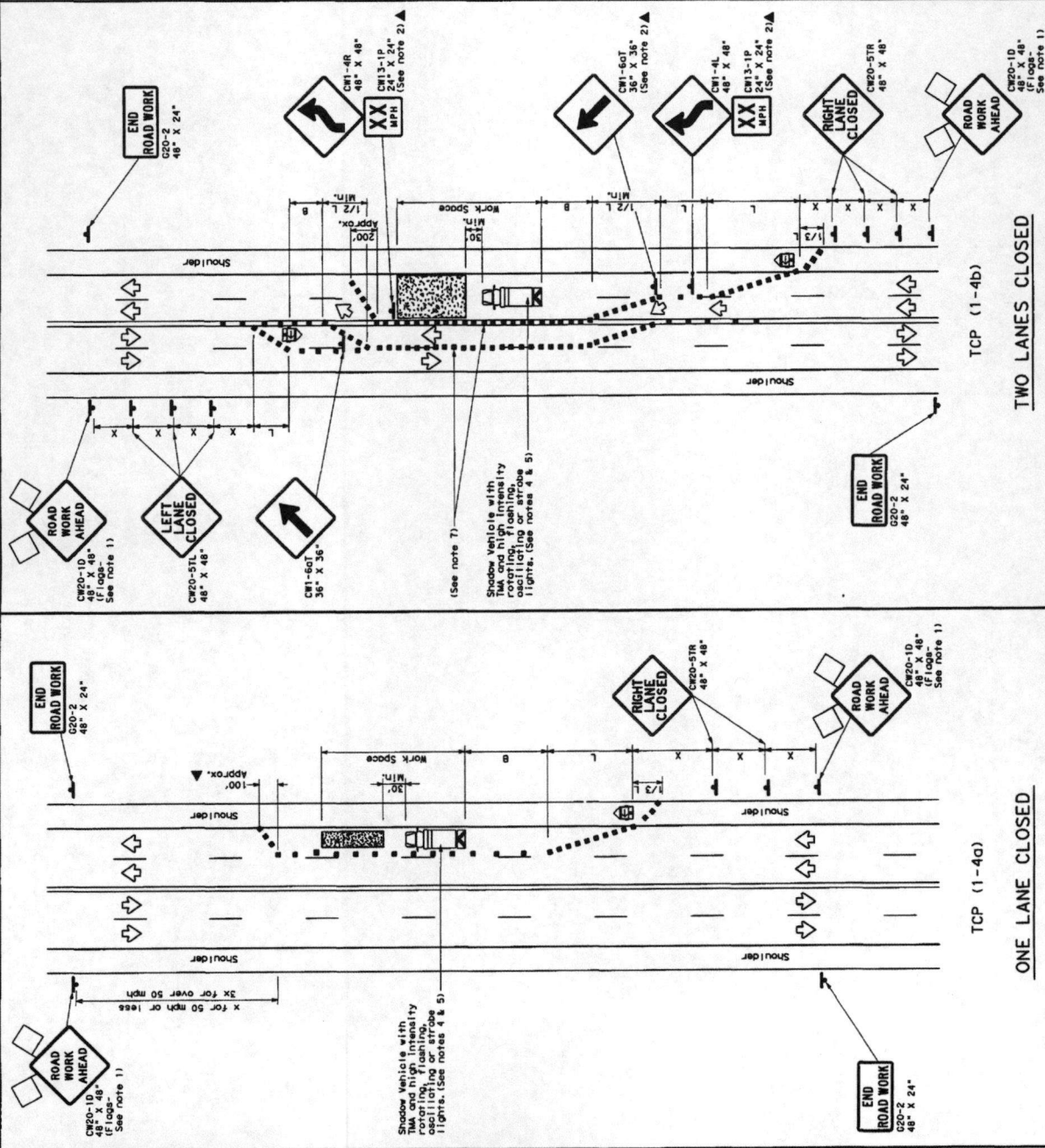
5. If this TCP is used for a left lane closure, CW20-5TL "LEFT LANE CLOSED" signs shall be used and channelizing devices shall be placed on the centerline where needed to protect the work space from opposing traffic with the arrow panel placed in the closed area near the end of the merge taper.

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, 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.

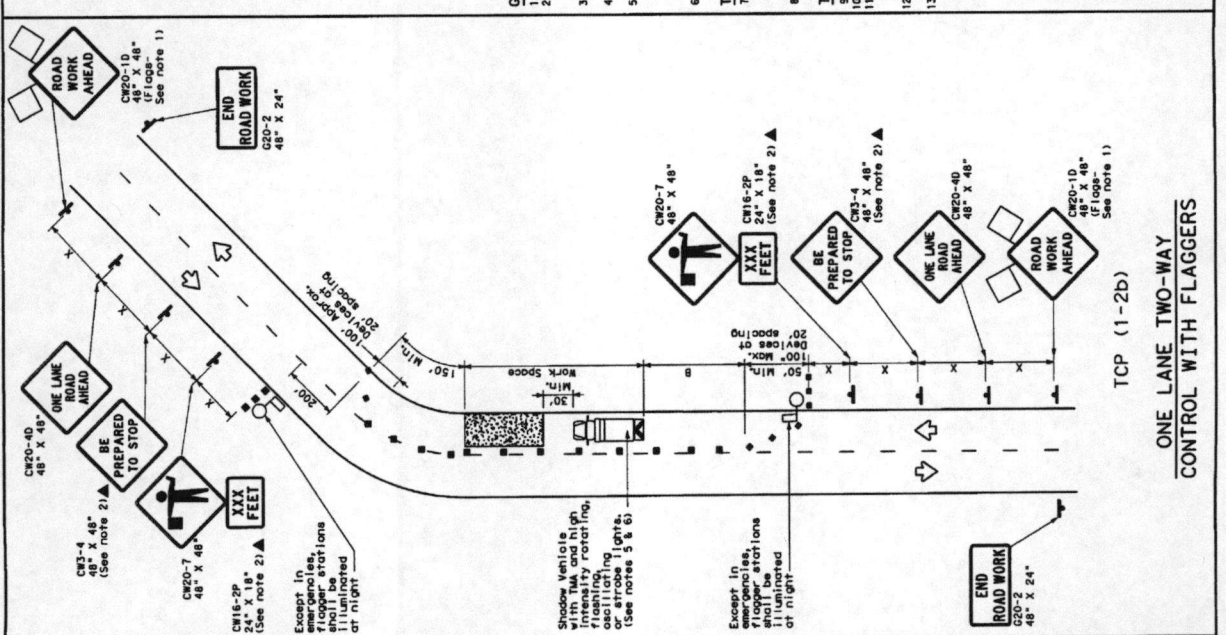
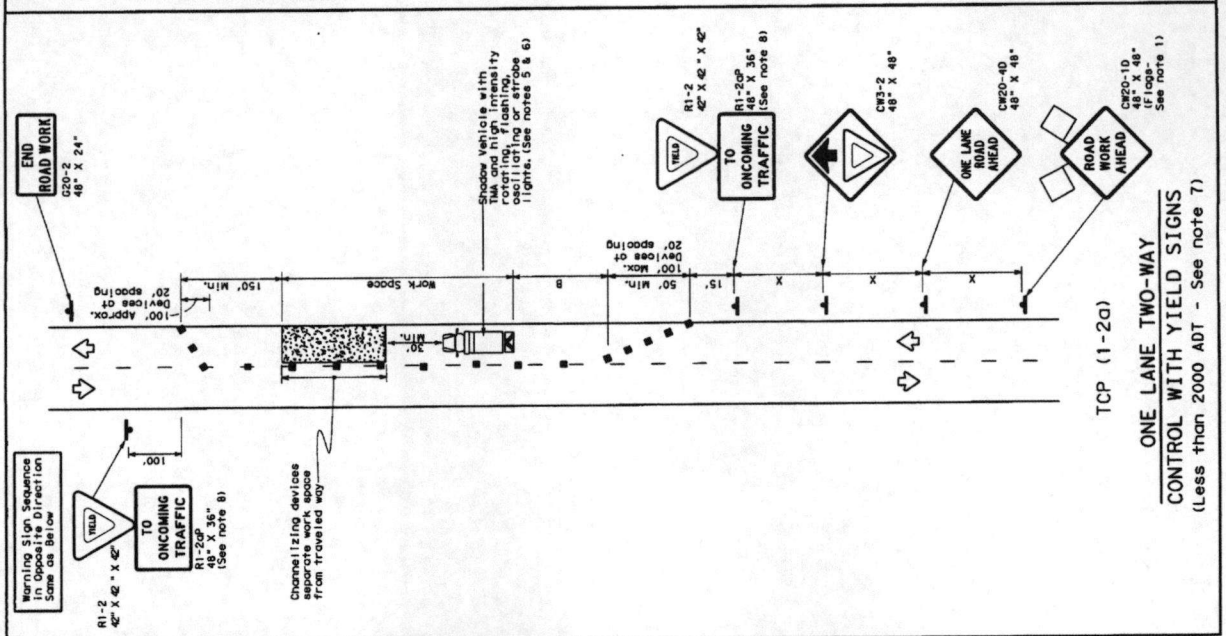
TRAFFIC CONTROL PLAN LANE CLOSURES ON MULTILANE CONVENTIONAL ROADS

TCP(1-4)-12

(C) 1-700T	December 1985	JAN 700ST	CAR TRUCKS	OWN TRUCK?	CAR TRUCK?
	<i>revisions</i>				HIGHWAY
	1-12	CONF.	SHEET	JOB	
	2-94 8-96 1-97 4-98	EJECT		COUNTRY	SHEET NO.
	5, 4				



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LEGEND

Channelizing Device	Channelizing Device
Truck Mounted Attenuator (TMA)	Truck Mounted Attenuator (TMA)
Portable Changeable Message Sign (PCMS)	Portable Changeable Message Sign (PCMS)
Traffic Flow	Traffic Flow
Flagger	Flagger

POSTED SPEED

Postage	Formula	Minimum	Maximum	Minimum	Maximum	Stopping
Speed		Distance	Distance	Distance	Distance	Distance
30	$S^2/60$	150'	180'	120'	120'	200'
35	$S^2/60$	180'	210'	150'	150'	250'
40	$S^2/60$	210'	240'	180'	180'	300'
45	$S^2/60$	240'	270'	210'	210'	350'
50	$S^2/60$	270'	300'	240'	240'	400'
55	$S^2/60$	300'	330'	270'	270'	450'
60	$S^2/60$	330'	360'	300'	300'	500'
65	$S^2/60$	360'	390'	330'	330'	550'
70	$S^2/60$	390'	420'	360'	360'	600'
75	$S^2/60$	420'	450'	390'	390'	650'

TYPICAL USAGE

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

GENERAL NOTES

1. Flagg attached to signs where shown are REQUIRED.
2. All traffic control devices illustrated are REQUIRED, except those denoted with the word "OPTIONAL".
3. The 35-4 "BE PREPARED TO STOP" sign may be installed after the 48-40 "ONE LANE ROAD AHEAD" sign, but proper sign spacing shall be maintained.
4. Sign spacing may be increased or an additional 48-40 "ONE LANE ROAD AHEAD" sign may be used to increase the sight distance to the work zone.
5. A Shadow Vehicle with a TMA should be used on any 35-4 "BE PREPARED TO STOP" sign. The shadow vehicle should be positioned 30 to 100 feet in front of the work zone. If workers are no longer present but road or work conditions require the use of the work zone, the shadow vehicle should be positioned 30 to 100 feet in front of the work zone.
6. Additional Shadow Vehicles with TMA may be positioned off the paved surface, next to those shown in order to protect wider work spaces.
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 one half city block.
8. R1-2 "YIELD" sign with R1-2a "TO ONCOMING TRAFFIC" plaque shall be placed on a support at a 7 foot minimum mounting height.
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 distance should be increased in order to maintain adequate stopping sight distance to the flagger.
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. Flagg should be limited to emergency situations.

TEXAS DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN

ONE-LANE TWO-WAY

TRAFFIC CONTROL

TCP (1-2)-12

DATE	BY	FOR	PROJECT	SECTION
1-12	1-12	1-12	1-12	1-12
1-12	1-12	1-12	1-12	1-12
1-12	1-12	1-12	1-12	1-12