

**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: 2017-12908

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

**Job Location Site:** Thompson Ferry Rd, 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 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  
for County Engineer

N/A

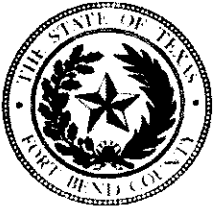
By: \_\_\_\_\_  
Drainage District Engineer/Manager

Presented to Commissioners Court and approved.

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

Clerk of Commissioners Court

By: Aronda Willes  
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: 2017-12908

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

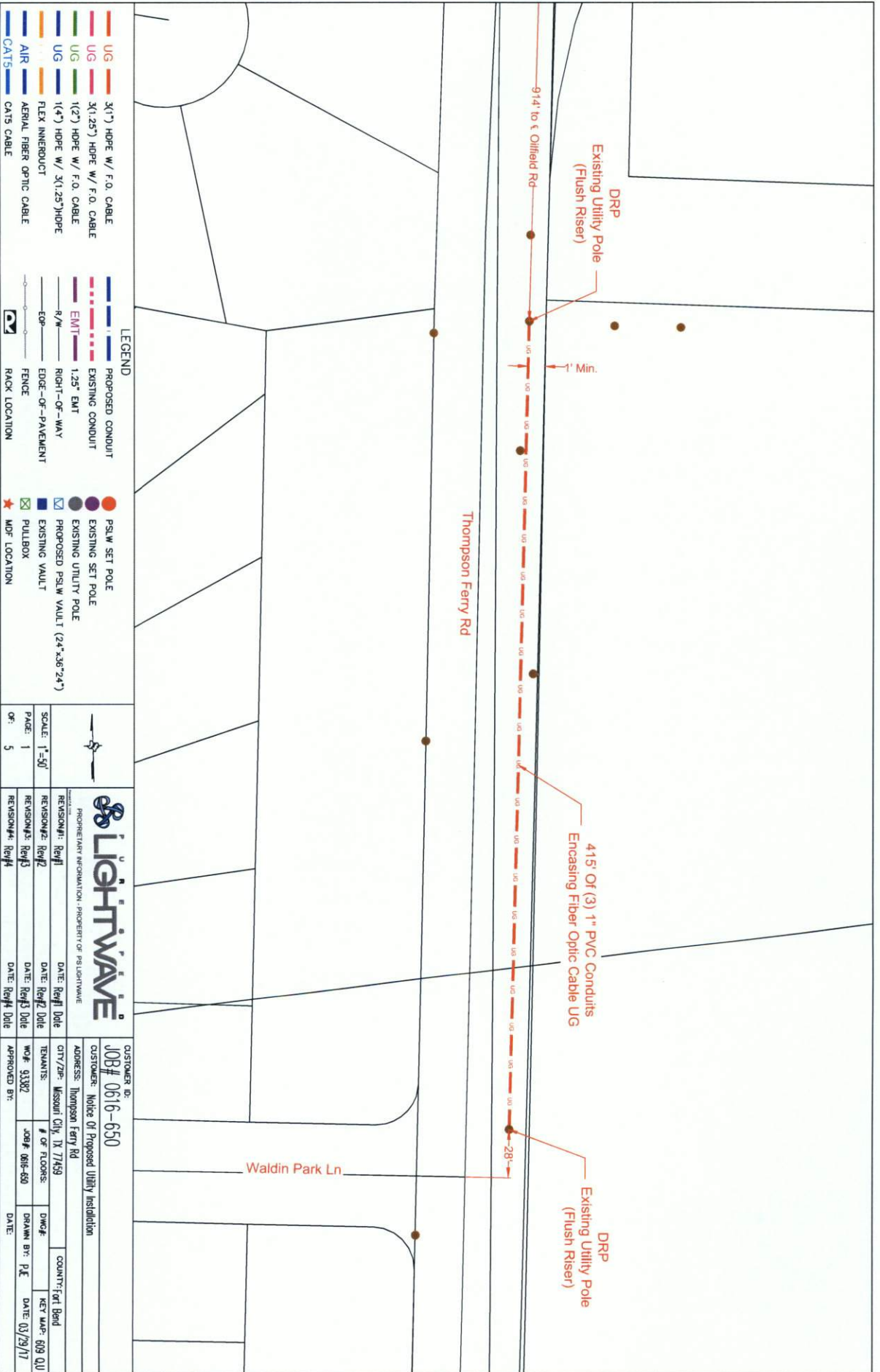
\_\_\_\_\_  
Date

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

*Charles O. Ay*

\_\_\_\_\_  
Permit Administrator

*4/17/17*  
\_\_\_\_\_  
Date

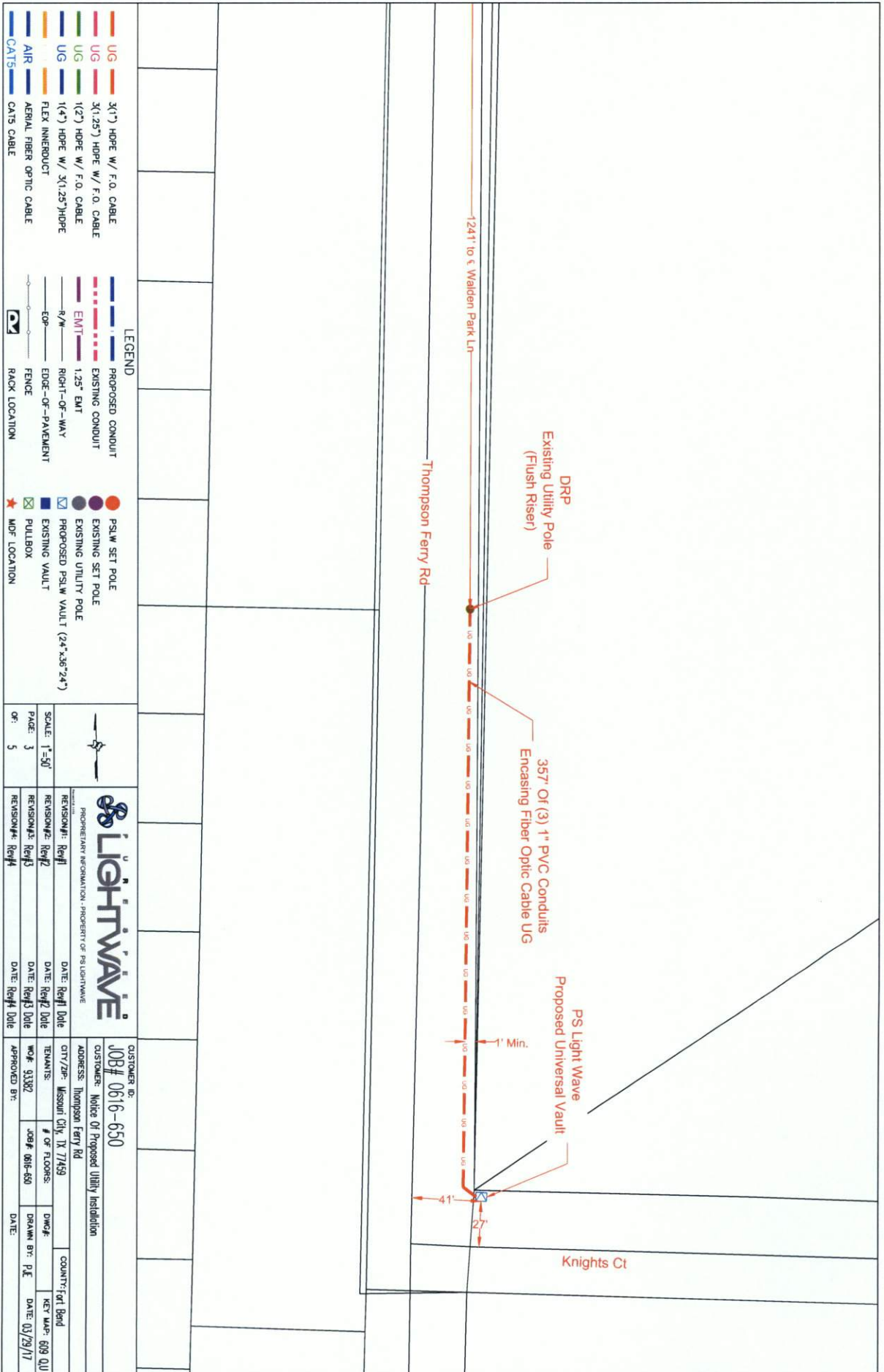






UG	3(1") HOPE W/ F.O. CABLE	PROPOSED CONDUIT
UG	3(1.25") HOPE W/ F.O. CABLE	EXISTING CONDUIT
UG	1(2") HOPE W/ F.O. CABLE	1.25" EMT
UG	1(4") HOPE W/ 3(1.25")HOPE	R/W
AIR	FLEX INNERDUCT	EDGE-OF-PAVEMENT
AIR	AERIAL FIBER OPTIC CABLE	FENCE
CATS	CATS CABLE	RACK LOCATION

SCALE: 1"=50'	REVISION#1: Rev#1	DATE: Rev#1 Date	CUSTOMER ID: JOB# 0616-650
PAGE: 2	REVISION#2: Rev#2	DATE: Rev#2 Date	CUSTOMER: Notice Of Proposed Utility Installation
OF: 5	REVISION#3: Rev#3	DATE: Rev#3 Date	ADDRESS: Thompson Ferry Rd
	REVISION#4: Rev#4	DATE: Rev#4 Date	CITY/ZIP: Missouri City, TX 77459
			TENANTS:
			WOF: 93382
			JOB#: 0616-650
			APPROVED BY:
			DATE: 03/29/17
			COUNTY: Fort Bend
			KEY MAP: 009 Q.U



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

LEGEND	SCALE: 1"=50'	REVISION#1: Rev#1	DATE: Rev#1 Date	CUSTOMER ID: JOB# 0616-650
		REVISION#2: Rev#2	DATE: Rev#2 Date	CUSTOMER: Notice Of Proposed Utility Installation
		REVISION#3: Rev#3	DATE: Rev#3 Date	ADDRESS: Thompson Ferry Rd
		REVISION#4: Rev#4	DATE: Rev#4 Date	CITY/ZIP: Missouri City, TX 77459
				TENANTS:
				WFO# 93382
				JOE# 0616-650
				DRAWN BY: P.E.
				DATE: 03/29/17



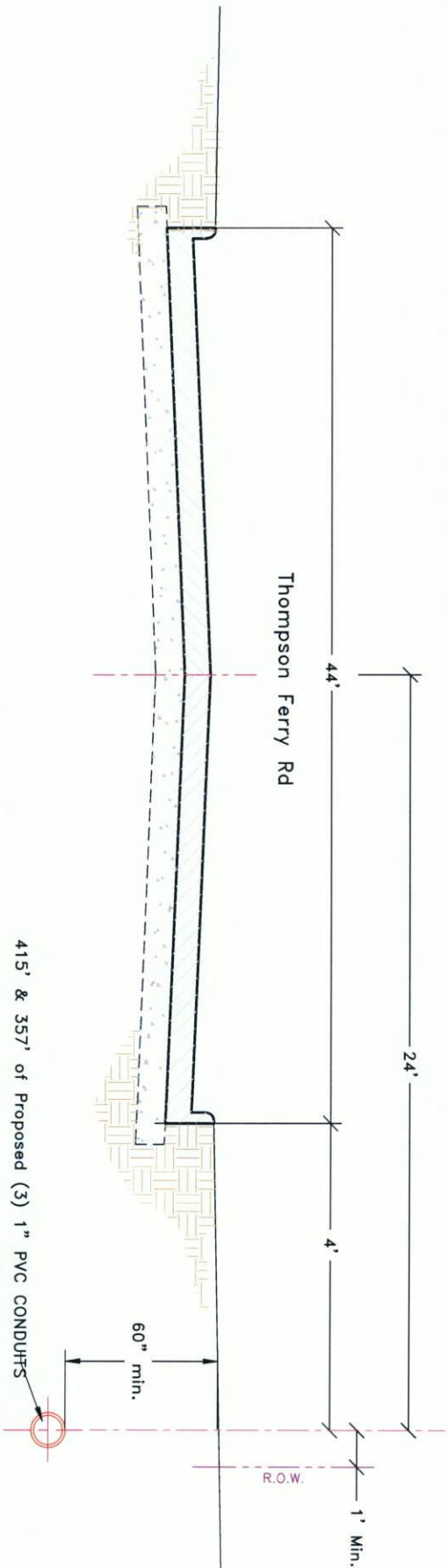


LEGEND	
UG	30\" HOPE W/ F.O. CABLE
UG	30,25\" HOPE W/ F.O. CABLE
UG	12\" HOPE W/ F.O. CABLE
UG	16\" HOPE W/ 30,25\" HOPE
UG	FLEX INNERDUCT
AIR	AERIAL FIBER OPTIC CABLE
CATS	CATS CABLE
---	PROPOSED CONDUIT
---	EXISTING CONDUIT
---	1.25\" EMT
---	R/W
---	RIGHT-OF-WAY
---	EDGE-OF-PAVEMENT
---	FENCE
---	RACK LOCATION
●	PSLW SET POLE
●	EXISTING SET POLE
●	EXISTING UTILITY POLE
●	PROPOSED PSLW VAULT (24'x36'24')
■	EXISTING VAULT
■	PULLBOX
★	MOF LOCATION

SCALE: 1\"=50'	
PAGE: 4	
OF: 5	
PS 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# 0616-650	
CUSTOMER: Notice Of Proposed Utility Installation	
ADDRESS: Thompson Ferry Rd	
CITY/ZIP: Missouri City, TX 77459	COUNTY: Fort Bend
REMARKS: # OF FLOORS:	DWG#:
MO# 93382	JOB# 0616-650
APPROVED BY:	DRAWN BY: P.E.
DATE:	DATE: 03/29/17

**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.

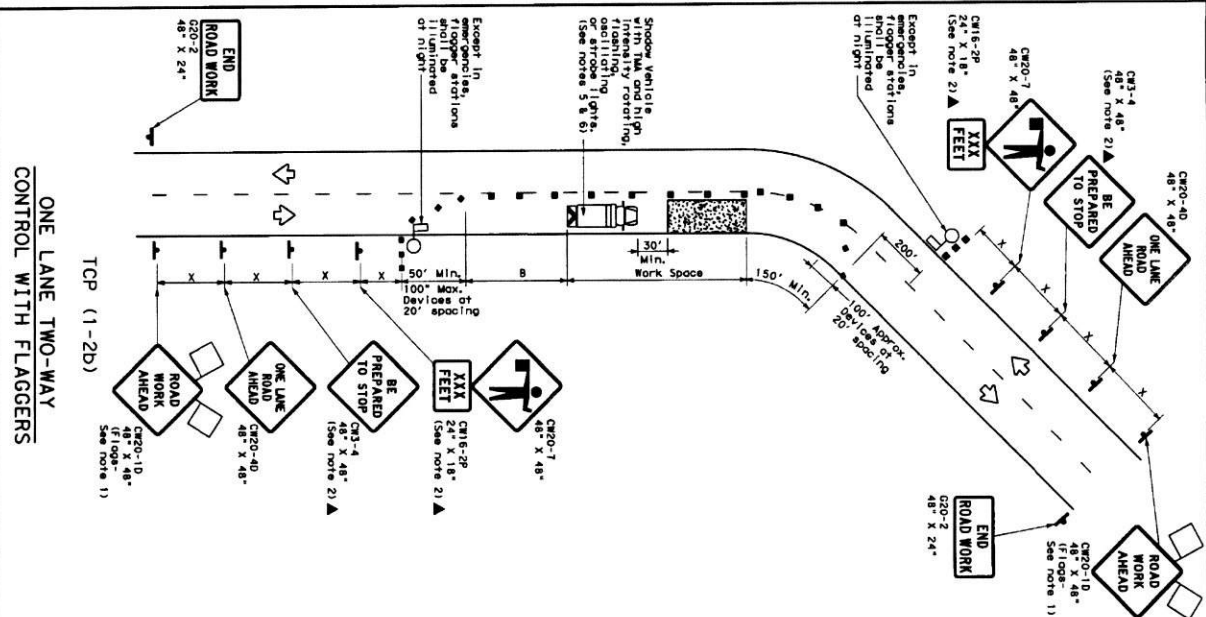
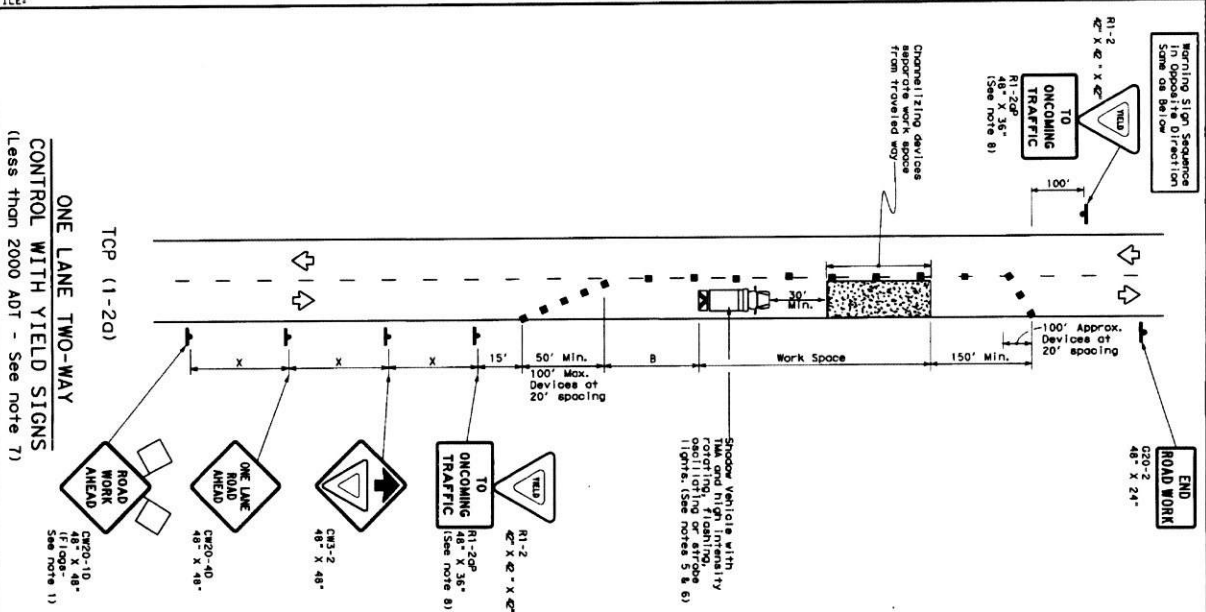


LEGEND	
UG	3(1") PVC W/ F.O. CABLE
UG	3(1.25") PVC W/ F.O. CABLE
UG	1(2") PVC W/ F.O. CABLE
UG	1(4") HDPE W/ 3(1.25") PVC
UG	FLEX INNERDUCT
AIR	AERIAL FIBER OPTIC CABLE
CATS	CATS CABLE
---	PROPOSED CONDUIT
---	EXISTING CONDUIT
---	1.25" EMT
---	R/W
---	RIGHT-OF-WAY
---	EDGE-OF-PAVEMENT
---	FENCE
---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

SCALE: N=1/8"	REVISION#1: Rev#1	DATE: Rev#1 Date	Job# 0616-650
PAGE: 5	REVISION#2: Rev#2	DATE: Rev#2 Date	Description: Notice of Proposed Utility Installation
OF: 5	REVISION#3: Rev#3	DATE: Rev#3 Date	Address: Thompson Ferry Rd
	REVISION#4: Rev#4	DATE: Rev#4 Date	CITY/Zip: Missouri City, TX 77459
			TENANTS:
			WOC# 31382
			Job# 0616-650
			APPROVED BY:
			DATE: 03/29/17
			COUNTY: Fort Bend
			KEY MAP: 609 Q10



DATE:  
FILE:



LEGEND	
	Type 3 Barricade
	Heavy Mork Vehicle
	Trailer Mounted Flooting Arrow Board
	Sign
	Flag
	Channelizing Device
	Truck Mounted Attenuator (TMA)
	Portable Changeable Message Sign (PCMS)
	Traffic Flow
	Flag

Formulas	Minimum Taper Length	Scopoped Maximum Channelizing Taper	Minimum Sight Buffer Distance	Scopoped Sight Buffer Distance
* 10' or less	12'	60'	90'	90'
* 10' to 12'	12'	60'	120'	90'
* 12' to 15'	15'	70'	160'	120'
* 15' to 20'	20'	80'	240'	250'
* 20' to 25'	25'	90'	320'	350'
* 25' to 30'	30'	90'	350'	360'
* 30' to 35'	35'	100'	400'	425'
* 35' to 40'	40'	100'	400'	425'
* 40' to 45'	45'	90'	350'	350'
* 45' to 50'	50'	100'	400'	425'
* 50' to 55'	55'	110'	500'	295'
* 55' to 60'	60'	120'	600'	350'
* 60' to 65'	65'	130'	700'	410'
* 65' to 70'	70'	140'	800'	475'
* 70' to 75'	75'	150'	900'	540'
* 75' to 80'	80'	160'	1000'	610'
* 80' to 85'	85'	170'	1100'	680'
* 85' to 90'	90'	180'	1200'	750'
* 90' to 95'	95'	190'	1300'	820'
* 95' to 100'	100'	200'	1400'	890'
* 100' to 105'	105'	210'	1500'	960'
* 105' to 110'	110'	220'	1600'	1030'
* 110' to 115'	115'	230'	1700'	1100'
* 115' to 120'	120'	240'	1800'	1170'
* 120' to 125'	125'	250'	1900'	1240'
* 125' to 130'	130'	260'	2000'	1310'
* 130' to 135'	135'	270'	2100'	1380'
* 135' to 140'	140'	280'	2200'	1450'
* 140' to 145'	145'	290'	2300'	1520'
* 145' to 150'	150'	300'	2400'	1590'
* 150' to 155'	155'	310'	2500'	1660'
* 155' to 160'	160'	320'	2600'	1730'
* 160' to 165'	165'	330'	2700'	1800'
* 165' to 170'	170'	340'	2800'	1870'
* 170' to 175'	175'	350'	2900'	1940'
* 175' to 180'	180'	360'	3000'	2010'
* 180' to 185'	185'	370'	3100'	2080'
* 185' to 190'	190'	380'	3200'	2150'
* 190' to 195'	195'	390'	3300'	2220'
* 195' to 200'	200'	400'	3400'	2290'
* 200' to 205'	205'	410'	3500'	2360'
* 205' to 210'	210'	420'	3600'	2430'
* 210' to 215'	215'	430'	3700'	2500'
* 215' to 220'	220'	440'	3800'	2570'
* 220' to 225'	225'	450'	3900'	2640'
* 225' to 230'	230'	460'	4000'	2710'
* 230' to 235'	235'	470'	4100'	2780'
* 235' to 240'	240'	480'	4200'	2850'
* 240' to 245'	245'	490'	4300'	2920'
* 245' to 250'	250'	500'	4400'	2990'
* 250' to 255'	255'	510'	4500'	3060'
* 255' to 260'	260'	520'	4600'	3130'
* 260' to 265'	265'	530'	4700'	3200'
* 265' to 270'	270'	540'	4800'	3270'
* 270' to 275'	275'	550'	4900'	3340'
* 275' to 280'	280'	560'	5000'	3410'
* 280' to 285'	285'	570'	5100'	3480'
* 285' to 290'	290'	580'	5200'	3550'
* 290' to 295'	295'	590'	5300'	3620'
* 295' to 300'	300'	600'	5400'	3690'
* 300' to 305'	305'	610'	5500'	3760'
* 305' to 310'	310'	620'	5600'	3830'
* 310' to 315'	315'	630'	5700'	3900'
* 315' to 320'	320'	640'	5800'	3970'
* 320' to 325'	325'	650'	5900'	4040'
* 325' to 330'	330'	660'	6000'	4110'
* 330' to 335'	335'	670'	6100'	4180'
* 335' to 340'	340'	680'	6200'	4250'
* 340' to 345'	345'	690'	6300'	4320'
* 345' to 350'	350'	700'	6400'	4390'
* 350' to 355'	355'	710'	6500'	4460'
* 355' to 360'	360'	720'	6600'	4530'
* 360' to 365'	365'	730'	6700'	4600'
* 365' to 370'	370'	740'	6800'	4670'
* 370' to 375'	375'	750'	6900'	4740'
* 375' to 380'	380'	760'	7000'	4810'
* 380' to 385'	385'	770'	7100'	4880'
* 385' to 390'	390'	780'	7200'	4950'
* 390' to 395'	395'	790'	7300'	5020'
* 395' to 400'	400'	800'	7400'	5090'
* 400' to 405'	405'	810'	7500'	5160'
* 405' to 410'	410'	820'	7600'	5230'
* 410' to 415'	415'	830'	7700'	5300'
* 415' to 420'	420'	840'	7800'	5370'
* 420' to 425'	425'	850'	7900'	5440'
* 425' to 430'	430'	860'	8000'	5510'
* 430' to 435'	435'	870'	8100'	5580'
* 435' to 440'	440'	880'	8200'	5650'
* 440' to 445'	445'	890'	8300'	5720'
* 445' to 450'	450'	900'	8400'	5790'
* 450' to 455'	455'	910'	8500'	5860'
* 455' to 460'	460'	920'	8600'	5930'
* 460' to 465'	465'	930'	8700'	6000'
* 465' to 470'	470'	940'	8800'	6070'
* 470' to 475'	475'	950'	8900'	6140'
* 475' to 480'	480'	960'	9000'	6210'
* 480' to 485'	485'	970'	9100'	6280'
* 485' to 490'	490'	980'	9200'	6350'
* 490' to 495'	495'	990'	9300'	6420'
* 495' to 500'	500'	1000'	9400'	6490'
* 500' to 505'	505'	1010'	9500'	6560'
* 505' to 510'	510'	1020'	9600'	6630'
* 510' to 515'	515'	1030'	9700'	6700'
* 515' to 520'	520'	1040'	9800'	6770'
* 520' to 525'	525'	1050'	9900'	6840'
* 525' to 530'	530'	1060'	10000'	6910'
* 530' to 535'	535'	1070'	10100'	6980'
* 535' to 540'	540'	1080'	10200'	7050'
* 540' to 545'	545'	1090'	10300'	7120'
* 545' to 550'	550'	1100'	10400'	7190'
* 550' to 555'	555'	1110'	10500'	7260'
* 555' to 560'	560'	1120'	10600'	7330'
* 560' to 565'	565'	1130'	10700'	7400'
* 565' to 570'	570'	1140'	10800'	7470'
* 570' to 575'	575'	1150'	10900'	7540'
* 575' to 580'	580'	1160'	11000'	7610'
* 580' to 585'	585'	1170'	11100'	7680'
* 585' to 590'	590'	1180'	11200'	7750'
* 590' to 595'	595'	1190'	11300'	7820'
* 595' to 600'	600'	1200'	11400'	7890'
* 600' to 605'	605'	1210'	11500'	7960'
* 605' to 610'	610'	1220'	11600'	8030'
* 610' to 615'	615'	1230'	11700'	8100'
* 615' to 620'	620'	1240'	11800'	8170'
* 620' to 625'	625'	1250'	11900'	8240'
* 625' to 630'	630'	1260'	12000'	8310'
* 630' to 635'	635'	1270'	12100'	8380'
* 635' to 640'	640'	1280'	12200'	8450'
* 640' to 645'	645'	1290'	12300'	8520'
* 645' to 650'	650'	1300'	12400'	8590'
* 650' to 655'	655'	1310'	12500'	8660'
* 655' to 660'	660'	1320'	12600'	8730'
* 660' to 665'	665'	1330'	12700'	8800'
* 665' to 670'	670'	1340'	12800'	8870'
* 670' to 675'	675'	1350'	12900'	8940'
* 675' to 680'	680'	1360'	13000'	9010'
* 680' to 685'	685'	1370'	13100'	9080'
* 685' to 690'	690'	1380'	13200'	9150'
* 690' to 695'	695'	1390'	13300'	9220'
* 695' to 700'	700'	1400'	13400'	9290'
* 700' to 705'	705'	1410'	13500'	9360'
* 705' to 710'	710'	1420'	13600'	9430'
* 710' to 715'	715'	1430'	13700'	9500'
* 715' to 720'	720'	1440'	13800'	9570'
* 720' to 725'	725'	1450'	13900'	9640'
* 725' to 730'	730'	1460'	14000'	9710'
* 730' to 735'	735'	1470'	14100'	9780'
* 735' to 740'	740'	1480'	14200'	9850'
* 740' to 745'	745'	1490'	14300'	9920'
* 745' to 750'	750'	1500'	14400'	9990'
* 750' to 755'	755'	1510'	14500'	10060'
* 755' to 760'	760'	1520'	14600'	10130'
* 760' to 765'	765'	1530'	14700'	10200'
* 765' to 770'	770'	1540'	14800'	10270'
* 770' to 775'	775'	1550'	14900'	10340'
* 775' to 780'	780'	1560'	15000'	10410'
* 780' to 785'	785'	1570'	15100'	10480'
* 785' to 790'	790'	1580'	15200'	10550'
* 790' to 795'	795'	1590'	15300'	10620'
* 795' to 800'	800'	1600'	15400'	10690'
* 800' to 805'	805'	1610'	15500'	10760'
* 805' to 810'	810'	1620'	15600'	10830'
* 810' to 815'	815'	1630'	15700'	10900'
* 815' to 820'	820'	1640'	15800'	10970'
* 820' to 825'	825'	1650'	15900'	11040'
* 825' to 830'	830'	1660'	16000'	11110'
* 830' to 835'	835'	1670'	16100'	11180'
* 835' to 840'	840'	1680'	16200'	11250'
* 840' to 845'	845'	1690'	16300'	11320'
* 845' to 850'	850'	1700'	16400'	11390'
* 850' to 855'	855'	1710'	16500'	11460'
* 855' to 860'	860'	1720'	16600'	11530'
* 860' to 865'	865'	1730'	16700'	11600'
* 865' to 870'	870'	1740'	16800'	11670'
* 870' to 875'	875'	1750'	16900'	11740'
* 875' to 880'	880'	1760'	17000'	11810'
* 880' to 885'	885'	1770'	17100'	11880'
* 885' to 890'	890'	1780'	17200'	11950'
* 890' to 895'	895'	1790'	17300'	12020'
* 895' to 900'	900'	1800'	17400'	12090'
* 900' to 905'	905'	1810'	17500'	12160'
* 905' to 910'	910'	1820'	17600'	12230'
* 910' to 915'	915'	1830'	17700'	12300'
* 915' to 920'	920'	1840'	17800'	12370'
* 920' to 925'	925'	1850'	17900'	12440'
* 925' to 930'	930'	1860'	18000'	12510'
* 930' to 935'	935'	1870'	18100'	12580'
* 935' to 940'	940'	1880'	18200'	12650'
* 940' to 945'	945'	1890'	18300'	12720'
* 945' to 950'	950'	1900'	18400'	12790'
* 950' to 955'	955'	1910'	18500'	12860'
* 955' to 960'	960'	1920'	18600'	12930'
* 960' to 965'	965'	1930'	18700'	13000'
* 965' to 970'	970'	1940'	18800'	13070'
* 970' to 975'	975'	1950'	18900'	13140'
* 975' to 980'	980'	1960'	19000'	13210'
* 980' to 985'	985'	1970'	19100'	13280'
* 985' to 990'	990'	1980'	19200'	13350'
* 990' to 995'	995'	1990'	19300'	13420'
* 995' to 1000'	1000'	2000'	19400'	13490'

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

TYPICAL USAGE	
1	1000000
2	1000000
3	1000000
4	1000000
5	1000000
6	1000000
7	1000000
8	1000000
9	1000000
10	1000000
11	1000000
12	1000000
13	1000000
14	1000000
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16	1000000
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	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
MOBILE	✓	✓		

## GENERAL NOTES

1. The C-320-40, REPAVED, 1050P sign may be installed after the C-320-40 "ONE LANE" sign is installed.
2. A Road Closed sign (R-10) and a No Left Turn sign (R-10) may be installed after the triangle speed sign may be installed when needed elsewhere in the plaza, or for right-of-way maintenance work, when approved by the Engineer.
3. The C-320-40, REPAVED, 1050P sign may be installed after the C-320-40 "ONE LANE" sign is installed.
4. Stop signs may be installed on an optional C-320-40 "ROAD WORK AHEAD" sign may be used if advance warning of road of the stop sign or R-12 "YIELD" sign is less than 1500 feet.
5. A Shadow Vehicle with a TMA should be used without delay; it can be positioned 30 to 100 feet in advance of the area of work or assembly and may be offsetting the performance of the work.
6. The TMA should be used in the plaza, and the TMA should be positioned 30 to 100 feet in advance of the area of work or assembly.
7. The TMA should be used in the plaza, and the TMA should be positioned 30 to 100 feet in advance of the area of work or assembly.
8. Additional Shadow Vehicles with TMA may be positioned off the paved surface, next to the TMA when in order to protect other work spaces.

## ICP (1-20)

1. **R1-2** - "TILE" sign traffic control may be used on projects with approaches that have distances a slight distance, or projects in urban areas, work zones should be no longer than one half city block. In rural areas on roadways with less than 2000 A.D.T., work zones should be no longer than 400 feet.
2. **R1-2** - "TILE" sign with **R1-2a** - "CLOSING TRAFFIC" plaques shall be used on a support or a T or Y road alignment mounting the sign.

## 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 driver's distance and a glance of stopped vehicles (see text 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.

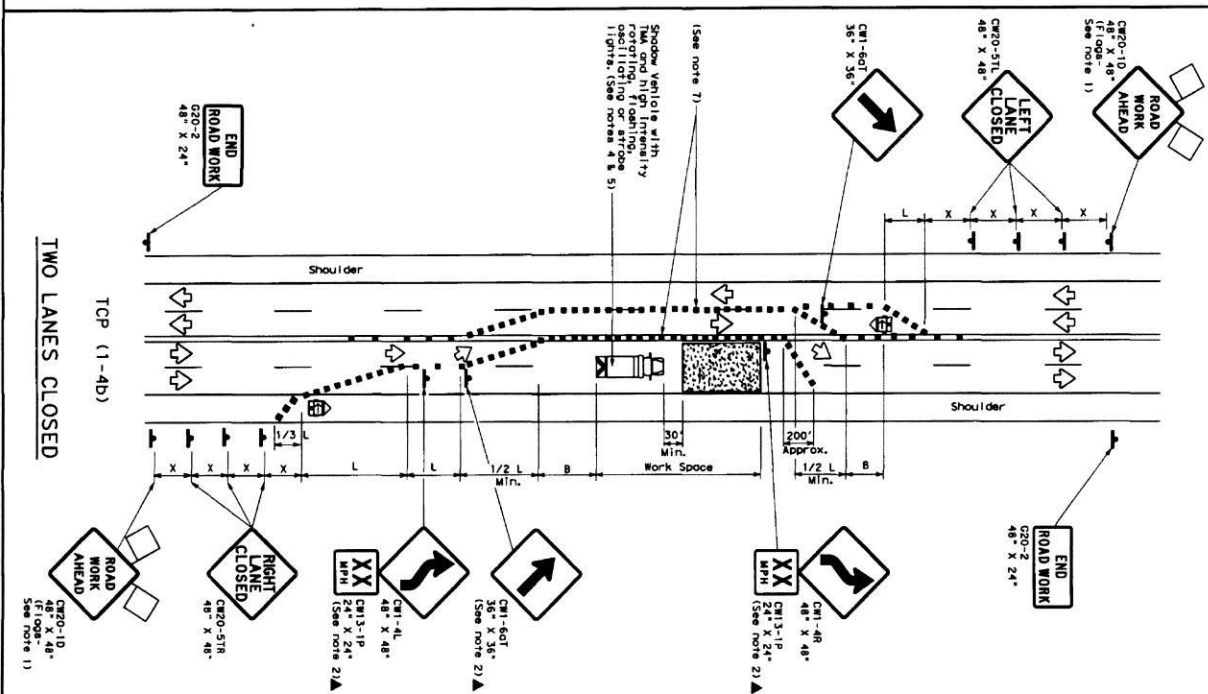
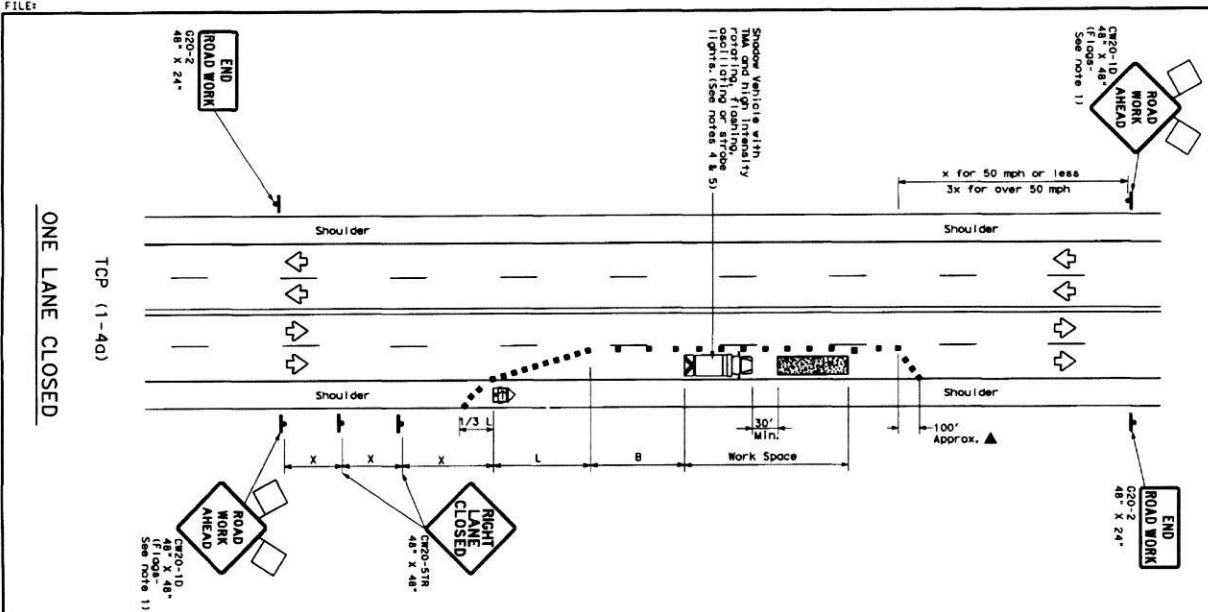
**Texas Department of Transportation**  
Traffic Operations Division











**TRAFFIC CONTROL PLAN**  
**ONE-LANE TWO-WAY**  
**TRAFFIC CONTROL**

	DECISIONS	PER THOBT	CAT THOBT	PER THOBT	CAT THOBT
4-90		CNN	SCTV	JOB	NILMANY
2-84					
1-87		BUS		COUNTRY	
4-96					SPELL NO.
152					



DATE:  
FILE:



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

Ported Sized #	Formula	Ultimate Taper Lengths **	On a Taper Devices	On a Taper Distance	Minimum Sign Spacing Buffer "s.	Suggested Sign Spacing "s.
30		10" 11" 12"	On a Taper Devices	On a Taper Distance		
30	WS2	150" 165" 180"	30"	60"	120"	90"
35	WS2	205" 225" 245"	35"	70"	160"	120"
40	L = 50	265" 295" 320"	40"	80"	240"	150"
45		300" 350" 540"	45"	90"	320"	195"
50		450" 450" 600"	50"	100"	400"	240"
55	L = WS	550" 605" 660"	55"	110"	500"	285"
60		600" 660" 720"	60"	120"	600"	330"
65		650" 715" 780"	65"	130"	700"	410"
70		700" 770" 840"	70"	140"	800"	415"
75		750" 825" 900"	75"	150"	900"	540"

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

L-LENGTH OF LOPEL (F1) M-MIDTH OF UTB66T (F1) S-POSTED SPEED (MPH)

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

### GENERAL NOTES

1. Flights assigned to a signa were shown on a REDBLOC, except those devoted to the control of the "air" traffic.
  2. With traffic control devices (interlocked or REDBLOC) in the plan, the "air" traffic was shown on a REDBLOC, when approved by the Engineer.
  3. The "RED-TO-ROAD" signa sign may be repeated if the:
    - a. A Stopway Vehicle with a TAA should be used anytime it is not positioned 30 to 100 feet in advance of the end of crew approach; without obstructing the performance or quality of the work; if workers are no longer in the work area.
    - b. A Stopway Vehicle with a TAA should be used anytime it is not positioned 30 to 100 feet in advance of the end of crew approach; without obstructing the performance or quality of the work; if workers are no longer in the work area.
  4. A Stopway Vehicle with a TAA may be positioned off the paved surface and on the shoulder in order to prevent lost work space.
- ICP (1-140)
1. If this ICP is used for a short lane plan, "RED-311, 1-157, LANE CLOSED" signa shall be used on advance warning signa shall be placed on the shoulder where needed to protect the work space from opposing traffic within the work point placed in the closed lane near the end of the limiting taper.
- ICP (1-14b)
1. Where Traffic is directed over a shallow centerline, channelizing devices shall be placed at 20' intervals along the centerline for 20' or 15' where it is the speed in mph. This lighter device spacing is intended for the areas of conflicting methods, not the entire work zone.

ICP (1-4g)

6. If this TDP is used for a left lane closure, CRO-51L "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 support two-way traffic should be spaced on tapered 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.

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

**Texas Department of Transportation**  
Traffic Operations Division

**TRAFFIC CONTROL PLAN**  
**LANE CLOSURES ON MULTILANE**  
**CONVENTIONAL ROADS**

TCP (1-4)-1

[illegible]