**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: 2018-18732

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

**Job Location Site:** **Gaston Road, Katy, TX 77494**

**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 day of , , 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: Rick J Staigle, PE, PTOE
County Engineer

By: N/A
Drainage District Engineer/Manager

Presented to Commissioners Court and approved.

Date Recorded 4-5-2018 Comm. Court No. 12E

Clerk of Commissioners Court

By: Linda Willis
Deputy

4/5/2018 Original sent to Rick Staigle, Engineering dept.

**Fort Bend County**
**Engineering Department**
301 Jackson Suite 401
Richmond, Texas 77469
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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: 2018-18732

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.**

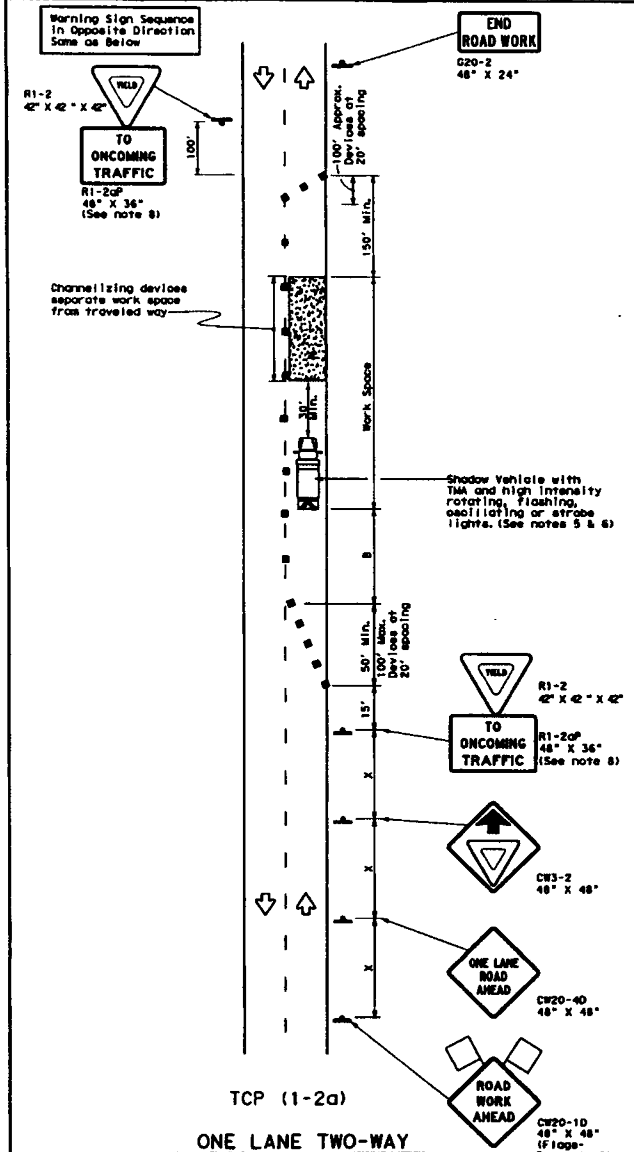
Rick J Staigle, PE, PTOE

Permit Administrator

3/23/2018

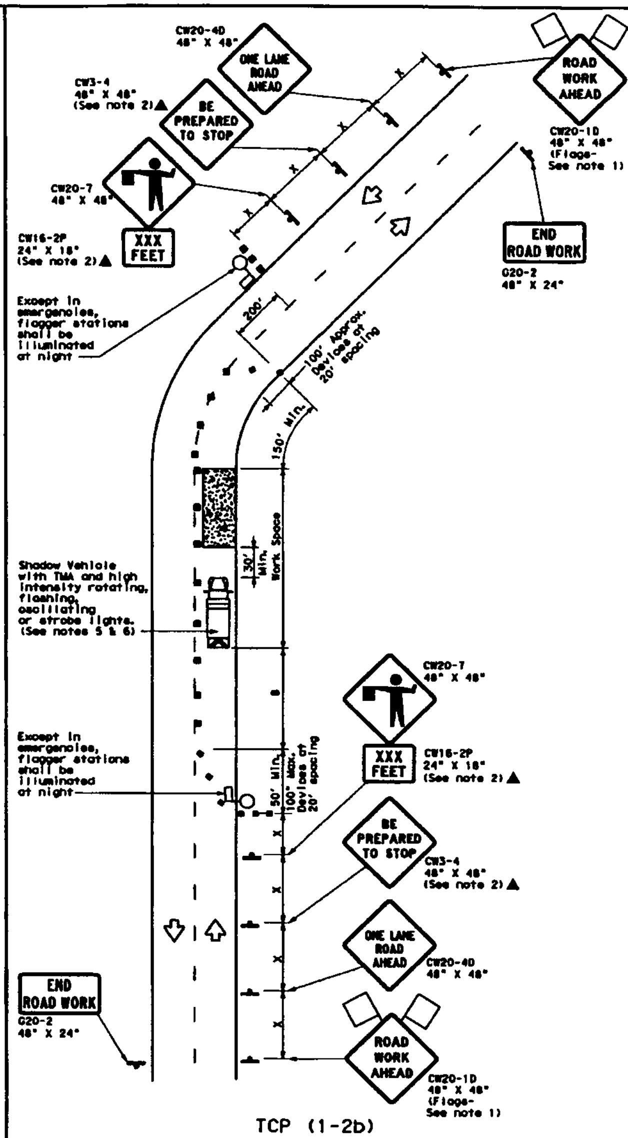
Date

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 conversion of this standard to other formats or for incorrect results or damages resulting from its use.




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

| Symbol | Description | Symbol | Description |
|---|---|---|---|
| | 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 ** | | | Suggested Maximum Spacing of Channelizing Devices | | Minimum Sign Spacing "X" Distance | Suggested Longitudinal Buffer Space "B" | Stopping Sight Distance |
|---|---|---|---|---|---|---|---|---|---|
| | | 10' Offset | 11' Offset | 12' Offset | On a Taper | On a Tangent | | | |
| 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

©TxDOT December 1985

| DN: TxDOT | CK: TxDOT | DW: TxDOT | CK: TxDOT |
|---|---|---|---|

REVISIONS
4-90 1-12
2-94
1-97
4-98

| CONT | SECT | JOB | HIGHWAY |
|---|---|---|---|
| DIST | COUNTY | | SHEET NO. |

152

DATE:
FILE:

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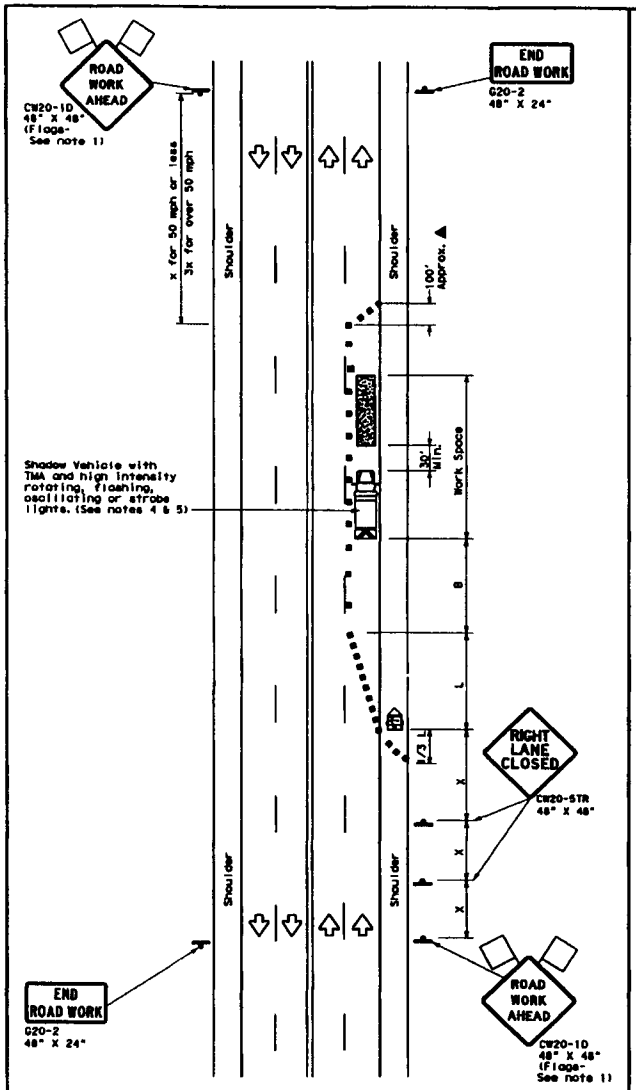
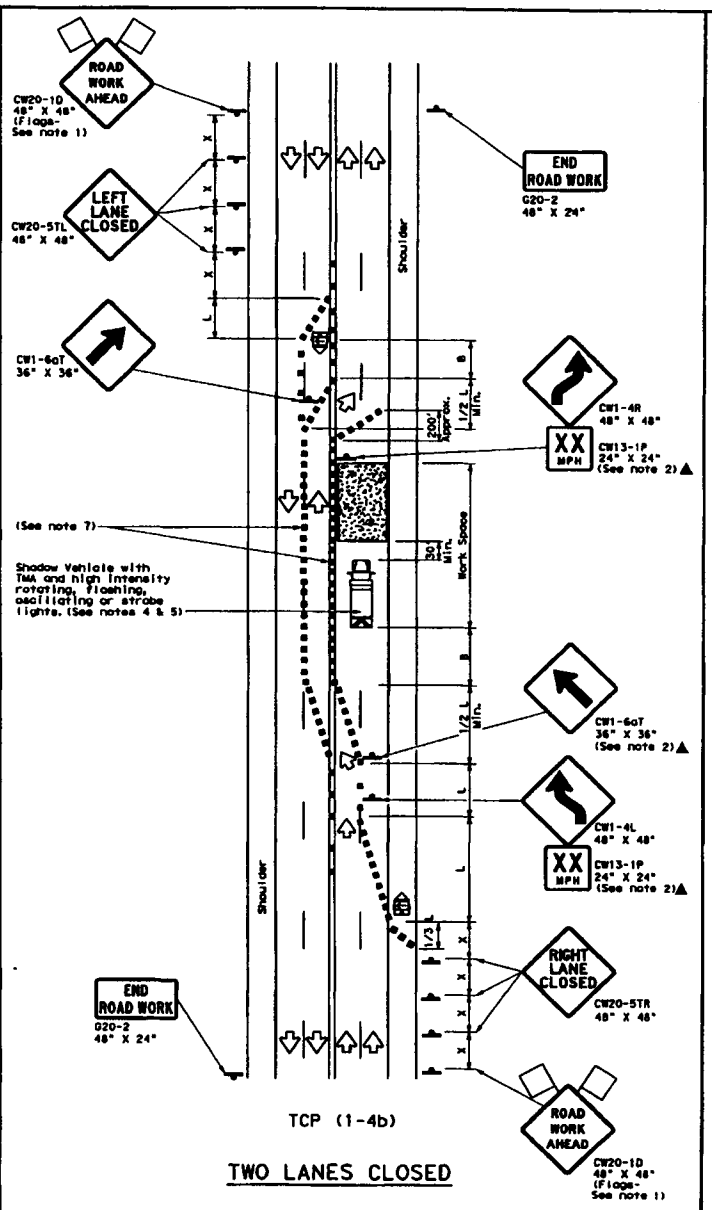
DATE:
FILE:




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 area 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, 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, 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

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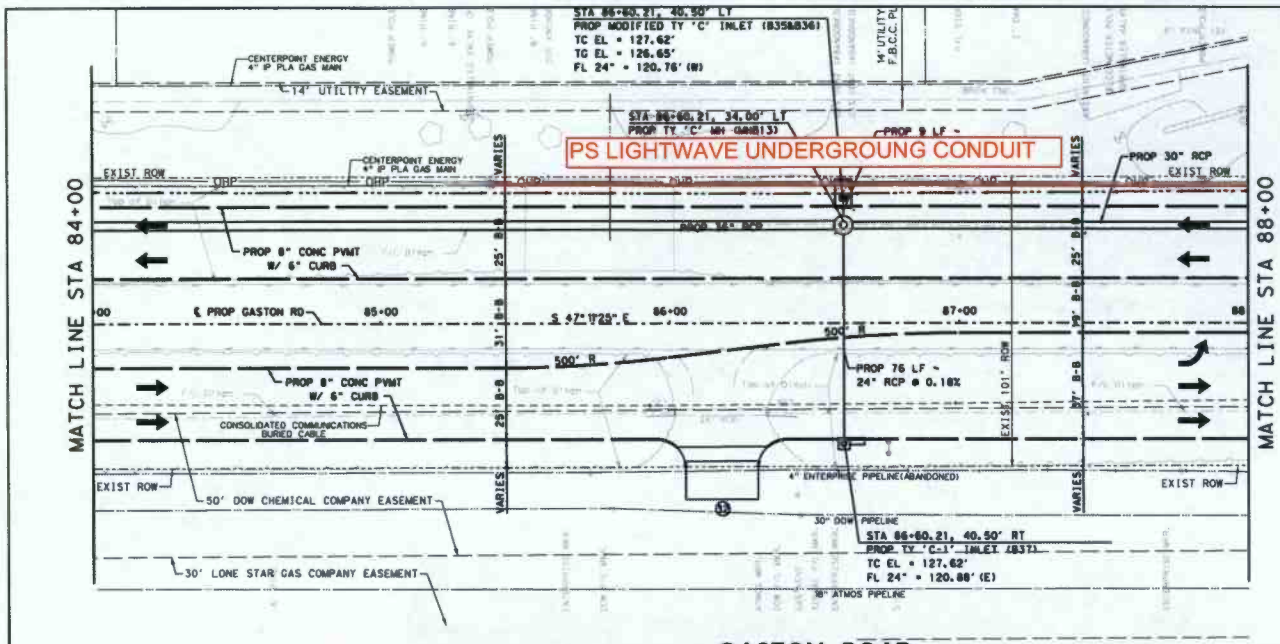
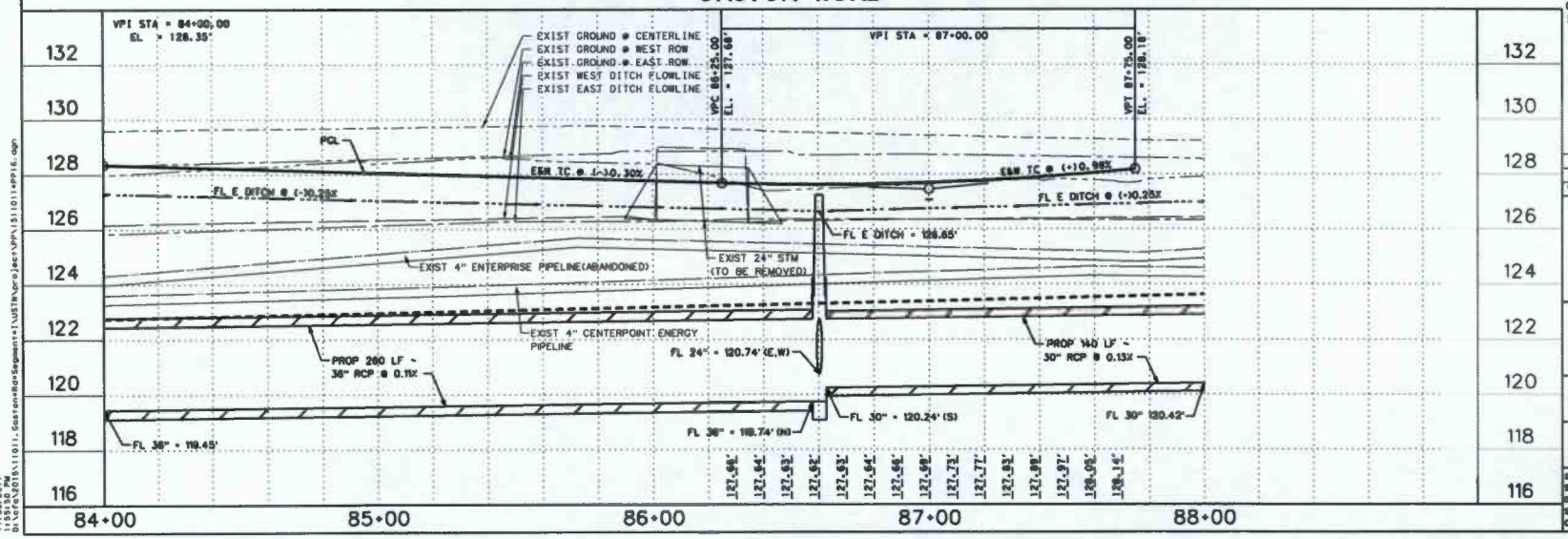
| REVISIONS | DIST | COUNTY | SHEET NO. |
|---|---|---|---|
| 2-94 1-12 | | | |
| 8-95 | | | |
| 1-97 | | | |
| 4-98 | | | |

| DIST | CONT | SECT | JOB | HIGHWAY |
|---|---|---|---|---|
| | | | | |

154




## GASTON ROAD




NOTES:

1. SEE GEOMETRICS LAYOUT SHEETS FOR PAVING DIMENSIONS AND LIMITS.
2. SEE DEMOLITION PLAN SHEETS FOR REMOVAL LIMITS OF EXISTING ITEMS.
3. SEE STORM SEWER LATERALS FOR PROPOSED STORM SEWER LEADS AND CONNECTIONS.
4. SEE DRIVEWAY SUMMARY SHEET FOR DRIVEWAY AND TEMPORARY CONSTRUCTION EASEMENT INFORMATION.

STATE OF TEXAS
ARNOLD SALDHI
89552
LICENSED PROFESSIONAL ENGINEER
11-30-2017

| No. | Date | Revisions | Apr. |
|---|---|---|---|
| | | | |

CobbFendley
TBPELS Firm Registration No. 2313
TBPLS Firm Registration No. 10087
13430 Northwest Freeway, Suite 1100
Houston, Texas 77040
713.462.3242 | fax 713.462.3262
www.cobbfendley.com

GASTON ROAD
KATY FLEWELLEN ROAD TO GREENBUSCH ROAD

GASTON ROAD
PLAN AND PROFILE
STA 84+00 TO STA 88+00

| | | | |
|---|---|---|---|
| SUBMITTED: | MS | DESIGNED BY: | DV |
| SCALE: | 1" = 40' | CC'D BY: | |
| DATE: | 11/30/2017 | SHEET NO 46 OF 241 SHEETS | |
| SURVEY BY: | MEISSER | | |
| CF JOB NO: | 1911-011 | | |

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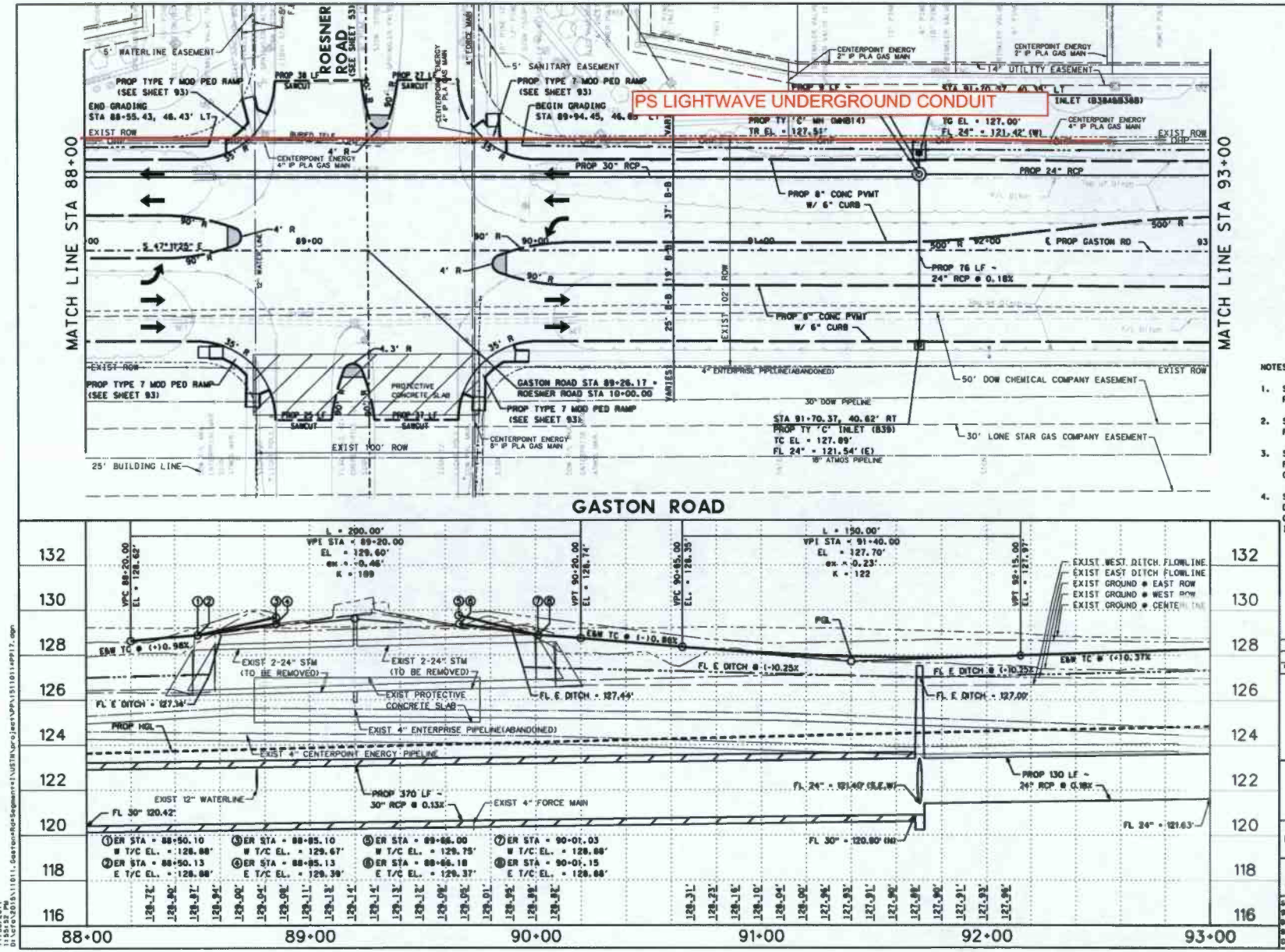


NOTES:

1. SEE GEOMETRICS LAYOUT SHEETS FOR PAVING DIMENSIONS AND LIMITS.
2. SEE DEMOLITION PLAN SHEETS FOR REMOVAL LIMITS OF EXISTING ITEMS.
3. SEE STORM SEWER LATERALS FOR PROPOSED STORM SEWER LEADS AND CONNECTIONS.
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11-30-2017

| No. | Date | Revisions | Appr. |
|---|---|---|---|

CobbFendley

GASTON ROAD
KATY FLEWELLEN ROAD TO GREENBUSCH ROAD

GASTON ROAD
PLAN AND PROFILE
STA 88+00 TO STA 93+00

SUBMITTED: MB DESIGNED BY: DV
SCALE: 1" = 40' DC'D BY:
DATE: 11/30/2017 SHEET NO 47 OF 241 SHEETS
SURVEY BY: WEISSER
CF JOB NO: 1511-011

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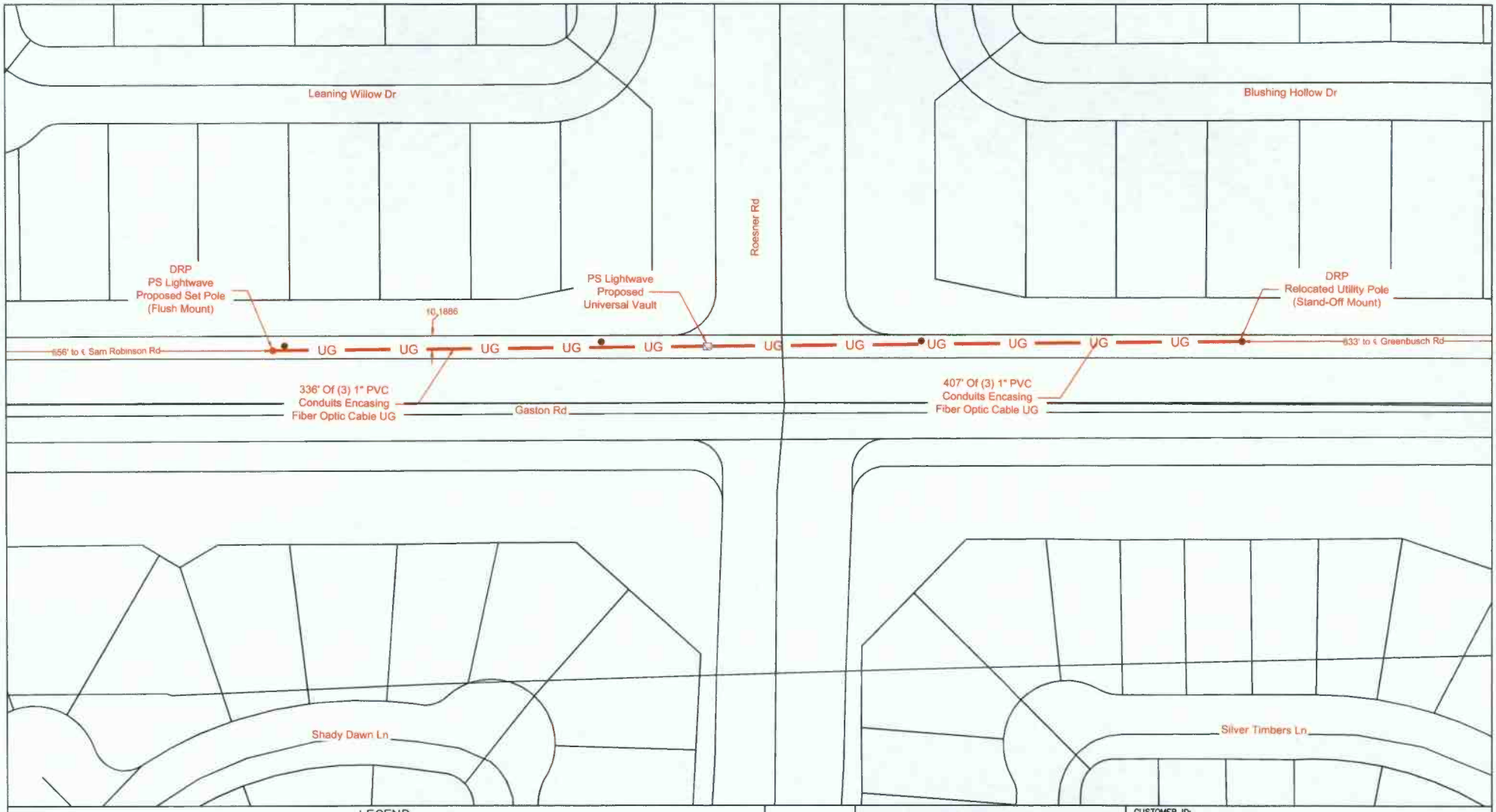



## LEGEND

| | | | | | |
|---|---|---|---|---|---|
| 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: 1"=70'
PAGE: 1
OF: 4

PURE SPEED LIGHTWAVE

PROPRIETARY INFORMATION - PROPERTY OF PS LIGHTWAVE

| | |
|---|---|
| REVISION#1: PJE | DATE: 3/14/2018 |
| 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# M0218-7834

CUSTOMER: Notice Of Proposed Utility Installation

ADDRESS: Gaston Rd

CITY/ZIP: Katy TX 77494 | COUNTY: Fort Bend

TENANTS: | # OF FLOORS: | DWG#: | KEY MAP: 484 U

WO#: 100911 | JOB#: M0218-7834 | DRAWN BY: PJE | DATE: 02/13/2018

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 | EOP EDGE-OF-PAVEMENT | EXISTING VAULT |
| AIR | AERIAL FIBER OPTIC CABLE | FENCE | PULLBOX |
| CAT5 | CAT5 CABLE | RACK LOCATION | MDF LOCATION |

SCALE: 1"=70'
PAGE: 2
OF: 4

PURE SPEED LIGHTWAVE

PROPRIETARY INFORMATION - PROPERTY OF PS LIGHTWAVE

| | | | |
|---|---|---|---|
| REVISION#1: PJE | DATE: 3/14/2018 | | |
| 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# M0218-7834

CUSTOMER: Notice Of Proposed Utility Installation

ADDRESS: Gaston Rd

CITY/ZIP: Katy TX 77494 | COUNTY: Fort Bend

TENANTS: | # OF FLOORS: | DWG#: | KEY MAP: 484 U

WO#: 100911 | JOB#: M0218-7834 | DRAWN BY: PJE | DATE: 02/13/2018

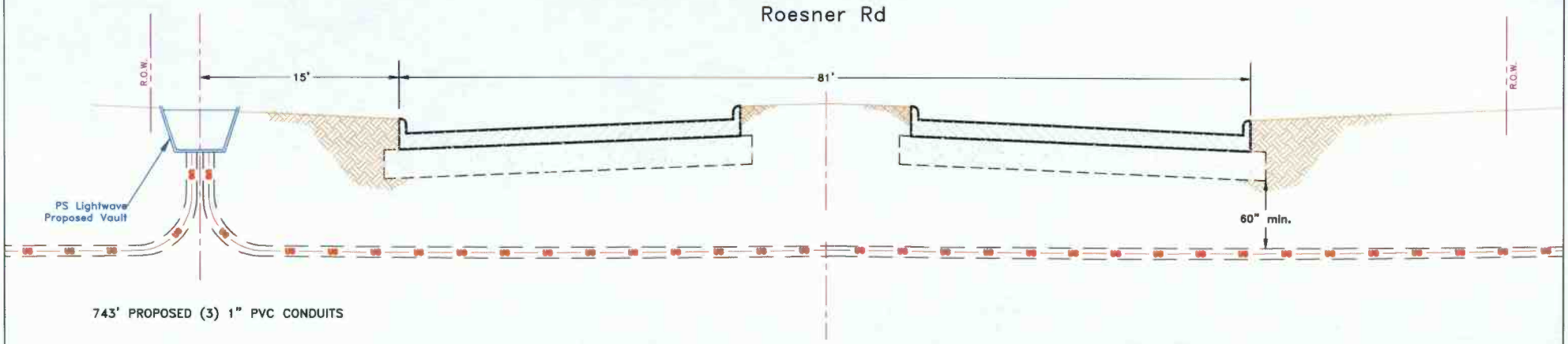
APPROVED BY: | DATE:

## General Notes:

1) Surface to be restored to its original condition in compliance with City of 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.




743' PROPOSED (3) 1" PVC CONDUITS

LEGEND

| | | | |
|---|---|---|---|
| UG | 3(1") PVC W/ F.O. CABLE | PROPOSED CONDUIT | PSLW SET POLE |
| UG | 3(1.25") PVC W/ F.O. CABLE | EXISTING CONDUIT | EXISTING SET POLE |
| UG | 1(2") PVC W/ F.O. CABLE | EMT 1.25" EMT | EXISTING UTILITY POLE |
| UG | 1(4") HDPE W/ 3(1.25")PVC | R/W RIGHT-OF-WAY | PROPOSED PSLW VAULT (24"x36"x24") |
| | FLEX INNERDUCT | EOP EDGE-OF-PAVEMENT | EXISTING VAULT |
| AIR | AERIAL FIBER OPTIC CABLE | FENCE | PULLBOX |
| CAT5 | CAT5 CABLE | RACK LOCATION | MDF LOCATION |

PURESPEED LIGHTWAVE

PROPRIETARY INFORMATION - PROPERTY OF PS LIGHTWAVE

| | | | |
|---|---|---|---|
| SCALE: N.T.S | REVISION#1: Rev#1 | DATE: Rev#1 Date | |
| PAGE: 3 | REVISION#2: Rev#2 | DATE: Rev#2 Date | |
| OF: 4 | REVISION#3: Rev#3 | DATE: Rev#3 Date | |
| | REVISION#4: Rev#4 | DATE: Rev#4 Date | |

| | | | |
|---|---|---|---|
| Job# Job# M0218-7834 | | | |
| Description: Notice Of Proposed Utility Installation | | | |
| ADDRESS: Gaston Rd | | | |
| CITY/ZIP: Katy TX 77494 | | | COUNTY: Fort Bend |
| TENANTS: | # OF FLOORS: | DWG#: | KEY MAP: 484 U |
| WO#: 100911 | JOB#: M0218-7834 | DRAWN BY: PJE | DATE: 02/13/2018 |
| APPROVED BY: | | DATE: | |

## General Notes:

1) Surface to be restored to its original condition in compliance with Fort Bend County Standards.

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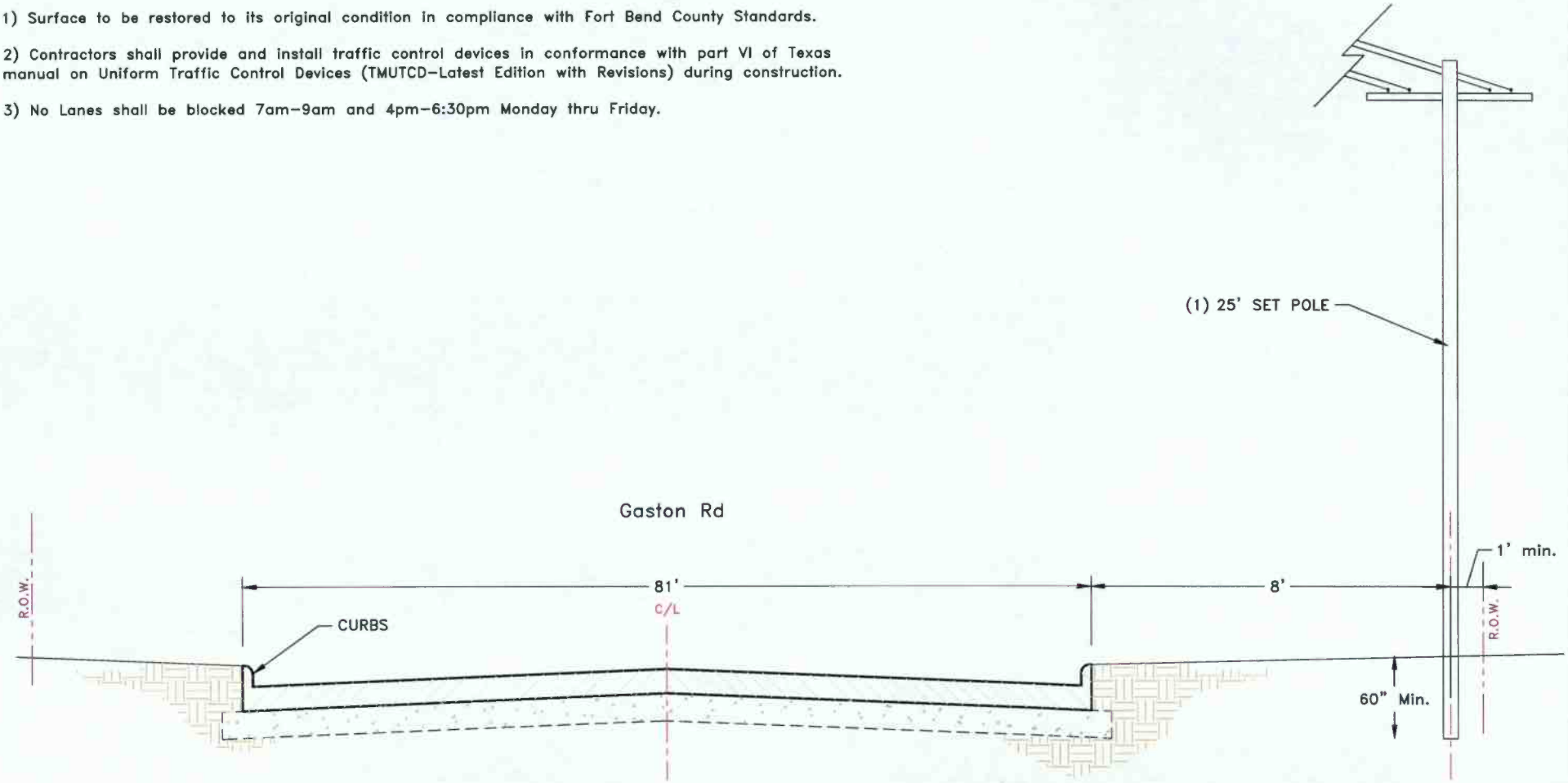
3) No Lanes shall be blocked 7am–9am and 4pm–6:30pm Monday thru Friday.




LEGEND

| | | | |
|---|---|---|---|
| UG | 3(1") PVC W/ F.O. CABLE | PROPOSED CONDUIT | PSLW SET POLE |
| UG | 3(1.25") PVC W/ F.O. CABLE | EXISTING CONDUIT | EXISTING SET POLE |
| UG | 1(2") PVC W/ F.O. CABLE | EMT 1.25" EMT | EXISTING UTILITY POLE |
| UG | 1(4") HDPE W/ 3(1.25")PVC | R/W RIGHT-OF-WAY | PROPOSED PSLW VAULT (24"x36"x24") |
| | 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: 4
OF: 4

PURESPEED LIGHTWAVE
PROPRIETARY INFORMATION - PROPERTY OF PS LIGHTWAVE

| | | | |
|---|---|---|---|
| REVISION#1: PJE | DATE: 3/14/2018 | | |
| REVISION#2: Rev#2 | DATE: Rev#2 Date | | |
| REVISION#3: Rev#3 | DATE: Rev#3 Date | | |
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Job# Job# M0218-7834
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ADDRESS: Gaston Rd
CITY/ZIP: Katy, TX 77494 COUNTY: Fort Bend
TENANTS: # OF FLOORS: DWG#: KEY MAP: 484 U
WO#: 100911 JOB#: M0218-7834 DRAWN BY: PJE DATE: 02/13/2018
APPROVED BY: DATE: