

**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: 2017-14930

Applicant: Windstream Sugar Land, Inc.

Job Location Site: Northbound Grand Parkway over the Brazos River, Sugar Land, TX 11111

Bond No. ***** **Date of Bond:** 6/23/2009 **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 1st day of August, 2017, Upon Motion of Commissioner Myers, seconded by Commissioner McRae, 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

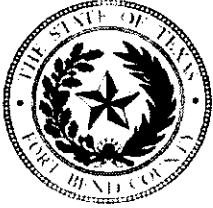
Presented to Commissioners Court and approved.

By: Charles O. Ay
for County Engineer

Date Recorded 8-4-2017 Comm. Court No. 9H

N/A
By: _____
Drainage District Engineer/Manager

Clerk of Commissioners Court
By: Randy 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: 2017-14930

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. Al

Permit Administrator

7/24/17
Date



EMERGENCY FIBER OVER BRAZOS RIVER



WINDSTREAM

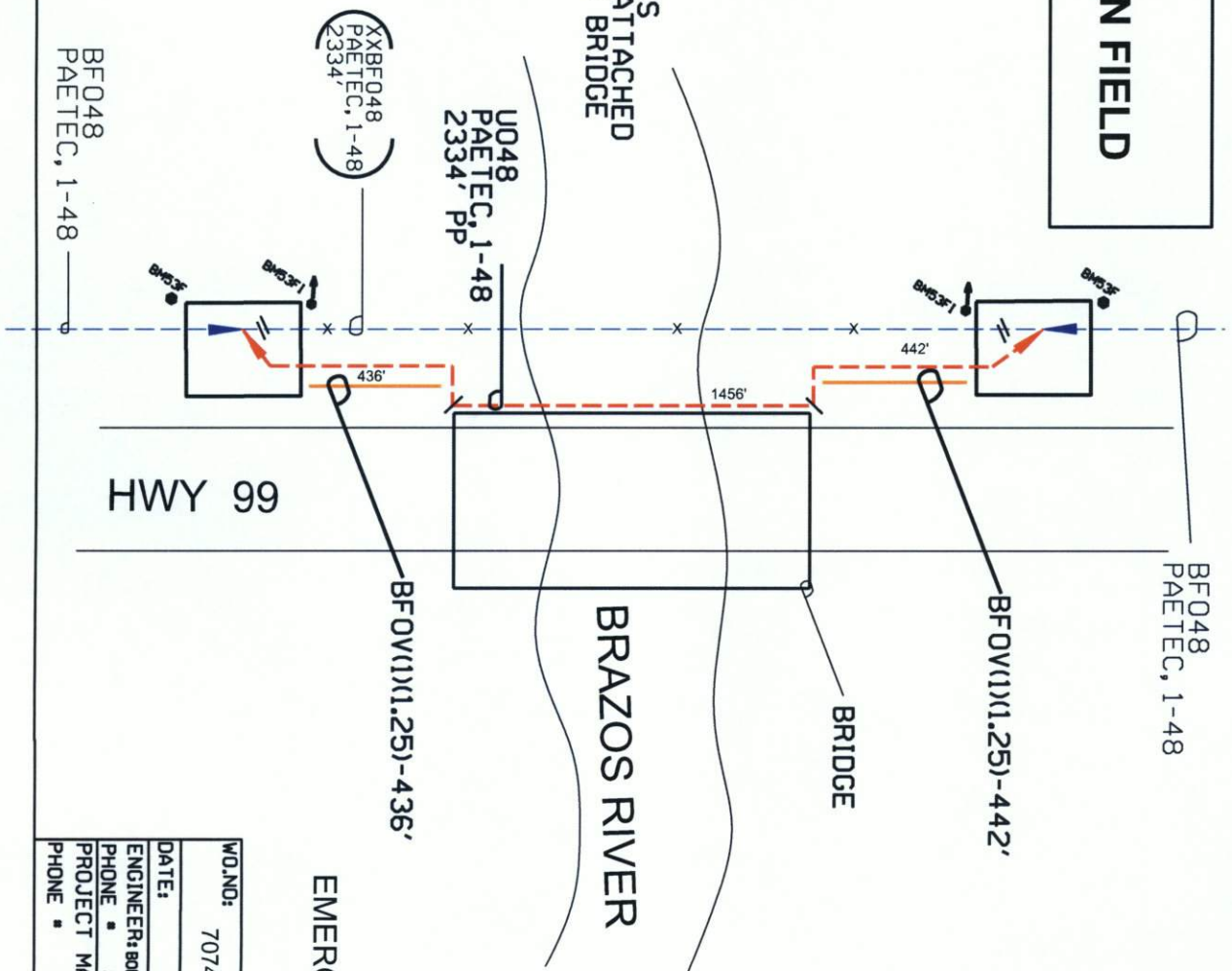
| | | | | | |
|------------------|-------------------|------------|-----------|-----------------|--------|
| WO.NO: | 707463091 | EXCHANGE: | SUGARLAND | CUT SHEET REQ. | NO |
| DATE: | REVISION: 1 | DISTRICT: | SOUTH | PERMIT REQ. | NO |
| ENGINEER: | BOBBY SOMMERFIELD | REV. DATE: | | MOP REQ. | NO |
| PHONE: | 281-383-8344 | | | JOINT WORK REQ. | NO |
| PROJECT MANAGER: | PETE MACEJEWski | | | | |
| PHONE: | 281-490-9353 | | | SHEET | 1 OF 2 |

NOTE:
COMPLETED IN FIELD

**NOTE:
COMPLETED IN FIELD**



**NOTE:
NEW FIBER IS
TEMPORARY ATTACHED
TO EXISTING BRIDGE**



- BHF(36X60X36)T-2
- U048-2334
- BM53F-2
- BM53FI-2
- BM2-2
- WH01(B)-51
- H01-48
- FIBER SPLICER(OT)-17
- FIBER SPLICER TRUCK-17
- LABORER(OT)-90
- BACKHDE+TRUCK+TRAILER-16
- HU0(48)3M-2
- HU0(144)LABOR ONLY)-1
- BFOV(1)(1.25)-878
- WHBFO-3

EMERGENCY FIBER OVER BRAZOS RIVER



WINDSTREAM

| | | | | | |
|----------------------------|--|----------------------------------|--|--------------------|--|
| WO.NO: 707463091 | | EXCHANGE: SUGARLAND | | CUT SHEET REQ. NO | |
| DATE: | | DISTRICT: SOUTH | | PERMIT REQ. NO | |
| ENGINEER: BOBBY SOMMERFELD | | REV. DATE: | | MOP REQ. NO | |
| PHONE: 281-393-8344 | | PROJECT MANAGER: PETE MACEJEWski | | JOINT WORK REQ. NO | |
| PHONE: | | 281-490-9353 | | SHEET 2 OF 2 | |

BF048
PAETEC, 1-48

BF048
PAETEC, 1-48

U048
PAETEC, 1-48
2334' PP

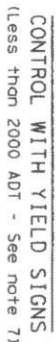
BFOV(1)(1.25)-436'

BFOV(1)(1.25)-442'

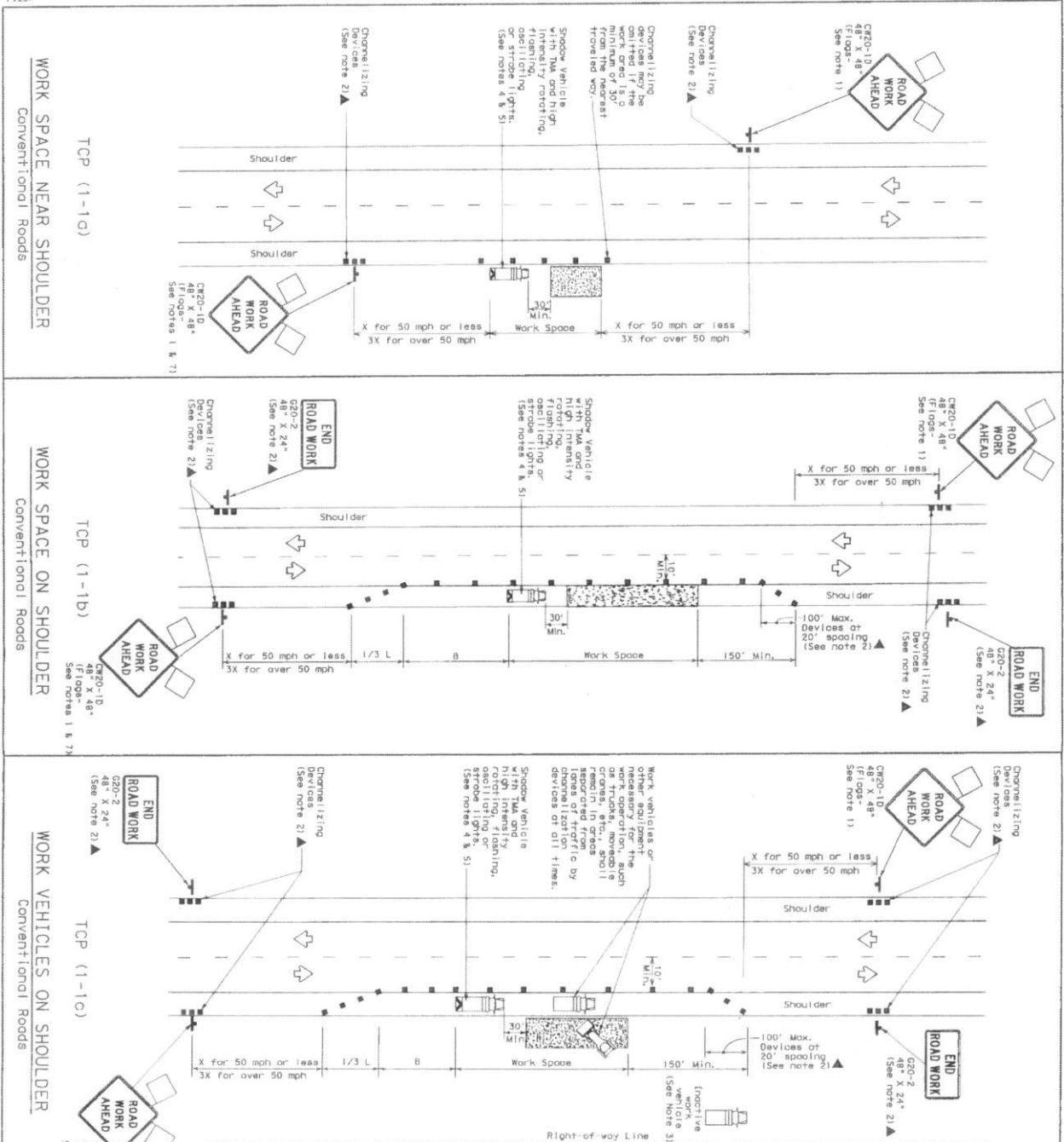
BRIDGE











BRAZOS RIVER

HWY 99



DATE: _____
FILE: _____



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

| Ported Formulas | Desirable Tower Lengths | Suggested Mean Channel Firing Distances | Minimum Signal Buffer Distances | Suggested Firing Buffer Distances |
|--------------------|----------------------------|---|--|--|
| * 30 | 10' 11' 12' | 50' 60' | 120' | 90' |
| WS | 150', 165', 180' | 30' | 50' | 120' |
| WS | 205', 225', 245' | 35' | 70' | 120' |
| WS | 265', 295', 320' | 40' | 80' | 140' |
| WS | 450', 485', 510' | 45' | 90' | 155' |
| WS | 550', 590', 600' | 50' | 100' | 195' |
| WS | 650', 660', 680' | 55' | 110' | 245' |
| WS | 750', 760', 780' | 60' | 120' | 285' |
| WS | 850', 860', 880' | 65' | 130' | 350' |
| WS | 950', 960', 980' | 70' | 140' | 410' |
| WS | 1050', 1060', 1080' | 75' | 150' | 475' |
| WS | 1150', 1160', 1180' | 80' | 160' | 540' |

Length of Taper (FT) Width of Offset (FT) Speed (MPH)

GENERAL NOTES

- [illegible]

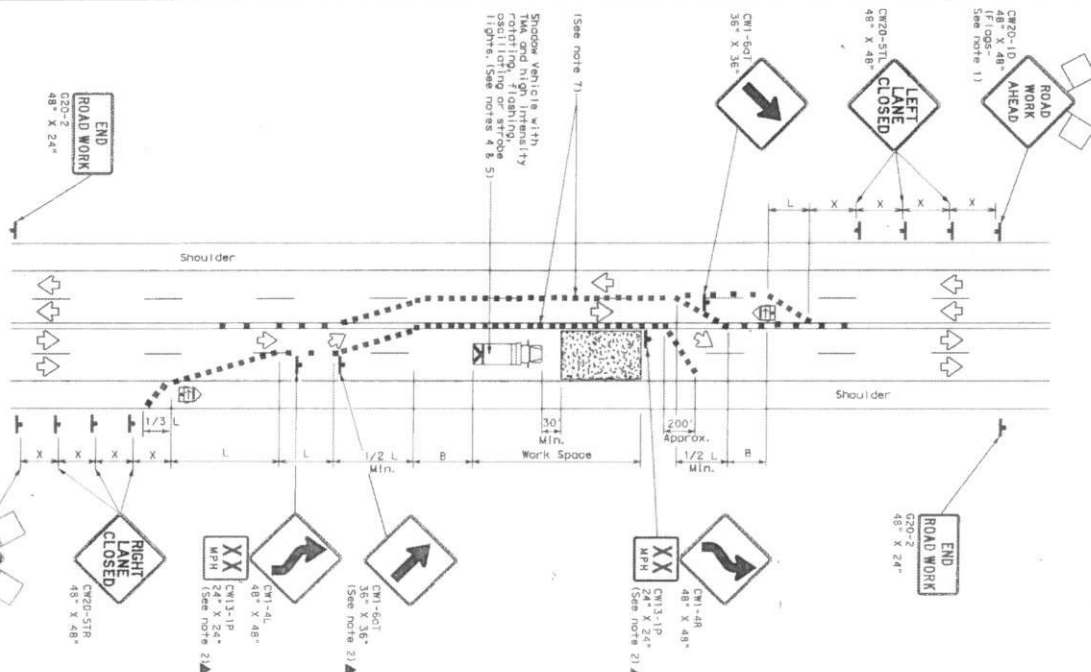
for construction or maintenance contract work, specific project requirements for shadow vehicles can be found in the project GENERAL NOTES for Item 502, Baricodes, Signs and Traffic Handling.

TRAFFIC CONTROL PLAN CONVENTIONAL ROAD SHOULDER WORK

 Texas Department of Transportation
Traffic Operations Division

TCP (1-1)-12

| ② 100T Discorder 1985 | | Disc | | Tape | | CD | |
|-----------------------|------|------|-----|------|------|----|------|
| Revisions | | CMR | MC7 | CA | TA01 | TR | TR01 |
| 2-84 | 2-12 | | | | | | |
| 8-85 | | | | | | | |
| 1-87 | | | | | | | |
| 4-88 | | | | | | | |



| Coated Steel Sheet * | Formula | 10' to 15' | 15' to 20' | On a Daisies | On a Daisies | Suggested Maximum Channel Zincing | Minimum Sight Sensing Buffer Distance | Suggested Maximum Channel Zincing | Suggested Maximum Channel Zincing |
|-------------------------------|--------------|------------------|------------------|-----------------|-----------------|--|---|--|--|
| 30 | W_{30}^2 | 150 | 155 | 180 | 30' | 60" | 120' | 90' | 120' |
| 35 | W_{35}^2 | 205 | 225 | 245 | 35' | 70" | 160' | 120' | 120' |
| 40 | W_{40}^2 | 265 | 295 | 320 | 40' | 80" | 240' | 155' | 155' |
| 45 | | 450 | 495 | 540 | 45' | 90" | 320' | 195' | 195' |
| 50 | | 500 | 550 | 600 | 50' | 100 | 400' | 240' | 240' |
| 55 | $L = W_{55}$ | 550 | 605 | 660 | 55' | 110' | 500' | 285' | 285' |
| 60 | | 600 | 660 | 720 | 60' | 120' | 600' | 350' | 350' |
| 65 | | 650 | 715 | 780 | 65' | 130' | 700' | 415' | 415' |
| 70 | | 700 | 770 | 840 | 70' | 140' | 800' | 475' | 475' |
| 75 | | 750 | 825 | 900 | 75' | 150' | 900' | 540' | 540' |

L=Length of Taper (FT) W=Width of Offset (FT) S=Posted Speed (MPH)

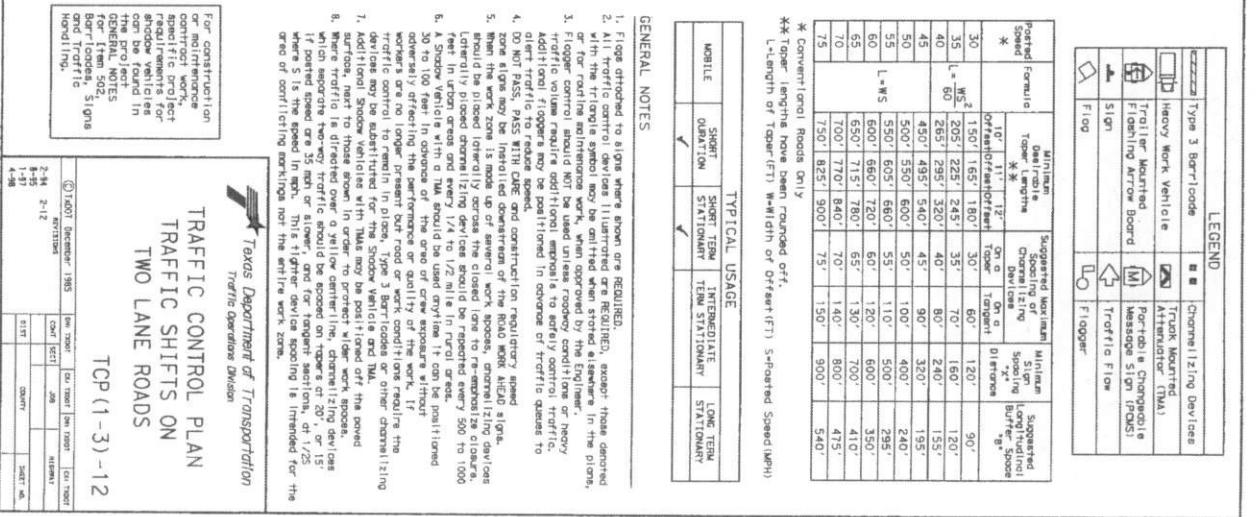
GENERAL NOTES

5. If this TCP is used for a left lane closure, "CROSS-TRAFFIC LEFT LANE CLOSED" signs should be placed at the entrance to the work zone. The signs should be placed on the right side of the road, facing the traffic approaching the work zone. The signs should be placed on the right side of the road, facing the traffic approaching the work zone.
6. If this TCP is used for a right lane closure, "CROSS-TRAFFIC RIGHT LANE CLOSED" signs should be placed at the entrance to the work zone. The signs should be placed on the left side of the road, facing the traffic approaching the work zone. The signs should be placed on the left side of the road, facing the traffic approaching the work zone.

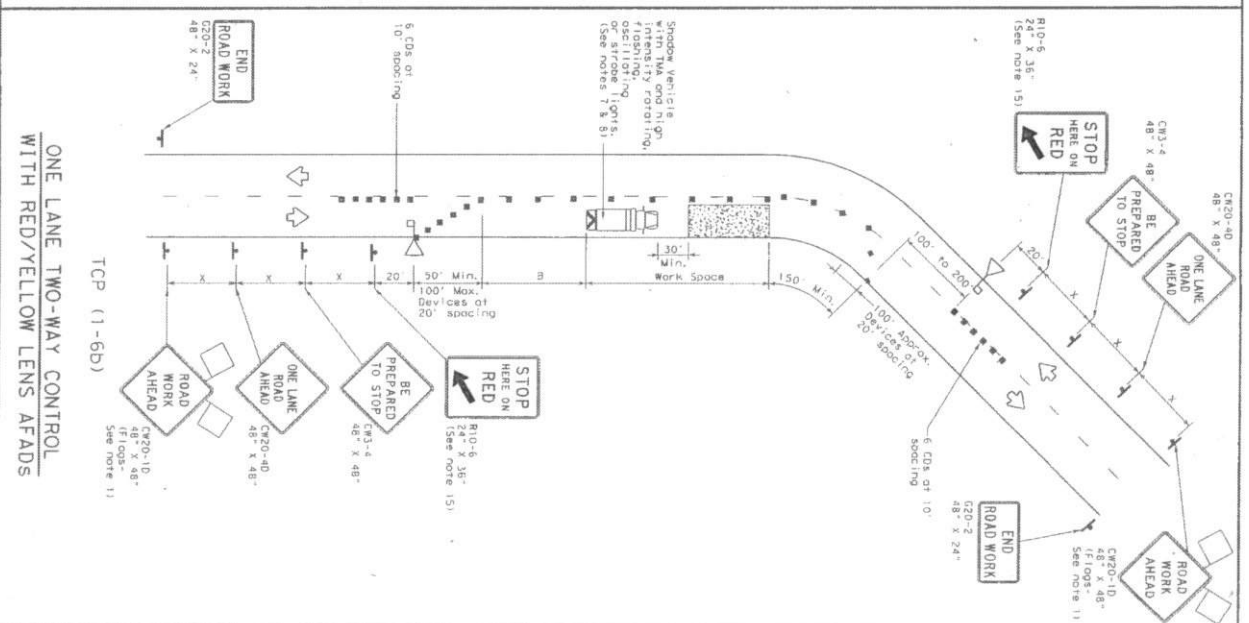
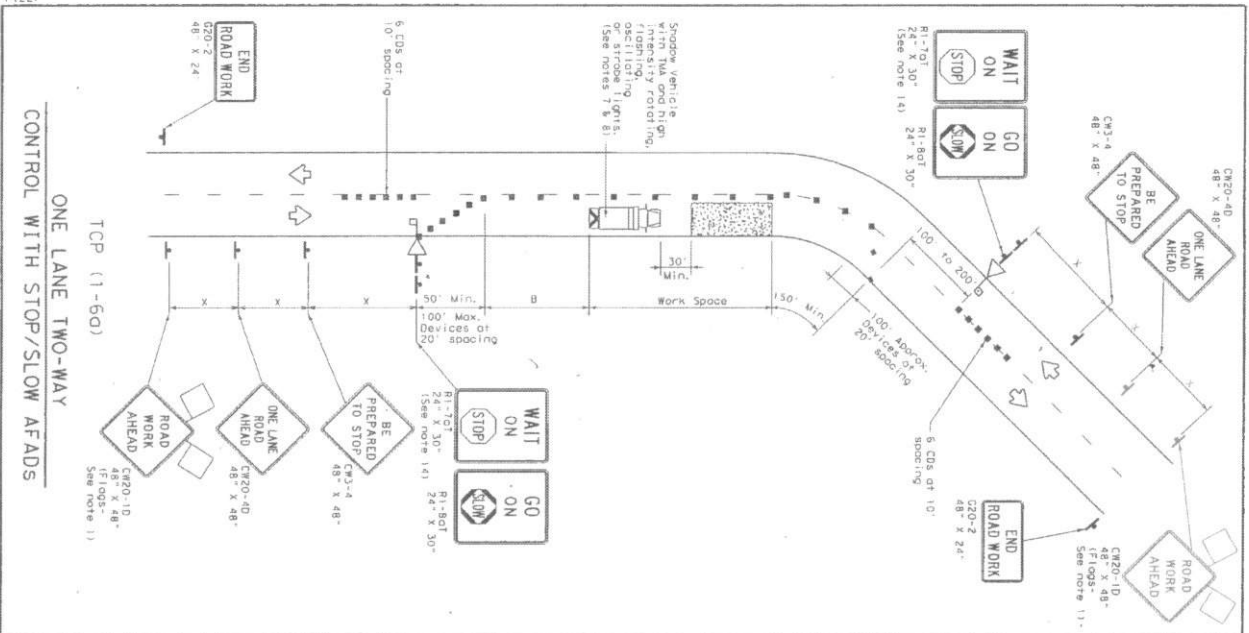
TRAFFIC CONTROL PLAN LANE CLOSURES ON MULTILANE CONVENTIONAL ROADS

| | | | | | | | |
|-----------------------|------------|-----------|----------|-----------|-----------|--|--|
| ① INDEX December 1985 | | | | | | | |
| | REVISED | | | | | | |
| 2-84 | | | | | | | |
| 8-85 | | | | | | | |
| 1-87 | | | | | | | |
| 4-86 | | | | | | | |
| | GM TRUCK | CAL TRUCK | SA TRUCK | CAL TRUCK | | | |
| | GMF SELECT | JOB | | | HIGWAY | | |
| | 0187 | | | | | | |
| | | CONCRETE | | | SELECT JO | | |
| 154 | | | | | | | |

DATE: _____
FILE: _____



(DATE)
FILE:



| LEGEND | |
|--------|--------------------------------|
| | Chromalizing Devices (CDs) |
| | Truck Mounted Attenuator (TMA) |
| | Automated Flagging Device |
| | Message Sign (MS) |
| | Traffic Flow |
| | Flagger |

| Sign | Minimum Spacing or Distance | Minimum Spacing or Distance | Minimum Spacing or Distance |
|------|-----------------------------|-----------------------------|-----------------------------|
| 1 | 10' | 11' | 12' |
| 2 | 10' | 11' | 12' |
| 3 | 10' | 11' | 12' |
| 4 | 10' | 11' | 12' |
| 5 | 10' | 11' | 12' |
| 6 | 10' | 11' | 12' |
| 7 | 10' | 11' | 12' |
| 8 | 10' | 11' | 12' |
| 9 | 10' | 11' | 12' |
| 10 | 10' | 11' | 12' |
| 11 | 10' | 11' | 12' |
| 12 | 10' | 11' | 12' |
| 13 | 10' | 11' | 12' |
| 14 | 10' | 11' | 12' |
| 15 | 10' | 11' | 12' |
| 16 | 10' | 11' | 12' |
| 17 | 10' | 11' | 12' |
| 18 | 10' | 11' | 12' |
| 19 | 10' | 11' | 12' |
| 20 | 10' | 11' | 12' |
| 21 | 10' | 11' | 12' |
| 22 | 10' | 11' | 12' |
| 23 | 10' | 11' | 12' |
| 24 | 10' | 11' | 12' |
| 25 | 10' | 11' | 12' |
| 26 | 10' | 11' | 12' |
| 27 | 10' | 11' | 12' |
| 28 | 10' | 11' | 12' |
| 29 | 10' | 11' | 12' |
| 30 | 10' | 11' | 12' |
| 31 | 10' | 11' | 12' |
| 32 | 10' | 11' | 12' |
| 33 | 10' | 11' | 12' |
| 34 | 10' | 11' | 12' |
| 35 | 10' | 11' | 12' |
| 36 | 10' | 11' | 12' |
| 37 | 10' | 11' | 12' |
| 38 | 10' | 11' | 12' |
| 39 | 10' | 11' | 12' |
| 40 | 10' | 11' | 12' |
| 41 | 10' | 11' | 12' |
| 42 | 10' | 11' | 12' |
| 43 | 10' | 11' | 12' |
| 44 | 10' | 11' | 12' |
| 45 | 10' | 11' | 12' |
| 46 | 10' | 11' | 12' |
| 47 | 10' | 11' | 12' |
| 48 | 10' | 11' | 12' |
| 49 | 10' | 11' | 12' |
| 50 | 10' | 11' | 12' |
| 51 | 10' | 11' | 12' |
| 52 | 10' | 11' | 12' |
| 53 | 10' | 11' | 12' |
| 54 | 10' | 11' | 12' |
| 55 | 10' | 11' | 12' |
| 56 | 10' | 11' | 12' |
| 57 | 10' | 11' | 12' |
| 58 | 10' | 11' | 12' |
| 59 | 10' | 11' | 12' |
| 60 | 10' | 11' | 12' |
| 61 | 10' | 11' | 12' |
| 62 | 10' | 11' | 12' |
| 63 | 10' | 11' | 12' |
| 64 | 10' | 11' | 12' |
| 65 | 10' | 11' | 12' |
| 66 | 10' | 11' | 12' |
| 67 | 10' | 11' | 12' |
| 68 | 10' | 11' | 12' |
| 69 | 10' | 11' | 12' |
| 70 | 10' | 11' | 12' |
| 71 | 10' | 11' | 12' |
| 72 | 10' | 11' | 12' |
| 73 | 10' | 11' | 12' |
| 74 | 10' | 11' | 12' |
| 75 | 10' | 11' | 12' |

GENERAL NOTES

1. Flaggers attached to signs where shown are required.
2. AHEAD signs only be used in situations where there is one lane of approaching traffic in the direction to be controlled.
3. AHEAD signs shall be provided to each AHEAD location for approaching traffic.
4. Each AHEAD sign shall be operated by a qualified/certified flagger. Flaggers operating AHEAD signs shall not leave them unattended while they are in use.
5. One flagger may operate two AHEAD signs only when the flagger has an unobstructed view of the approaching traffic in both directions.
6. When a flagger is operating two AHEAD signs, the flagger shall be positioned in the center of the road, facing the approaching traffic.
7. AHEAD signs shall be equipped with green, white, or orange or fluorescent red/orange flag attached to the end of the pole arm. The flag shall be a minimum of 16" square.
8. A shadow vehicle with a TMA should be used during the day. It can be positioned 50' to 100' behind the AHEAD sign. The shadow vehicle should be equipped with a TMA and a red/orange flag attached to the end of the pole arm. The flag shall be a minimum of 16" square.
9. A shadow vehicle with a TMA should be used during the day. It can be positioned 50' to 100' behind the AHEAD sign. The shadow vehicle should be equipped with a TMA and a red/orange flag attached to the end of the pole arm. The flag shall be a minimum of 16" square.
10. Flaggers should use two-way radios or other methods of communication to control traffic.
11. Length of work space should be based on the ability of flaggers to communicate.
12. If the work space is located near a horizontal or vertical curve, the buffer distance should be increased in order to maintain stopping sight distance to the AHEAD.
13. Traffic and observed by the Engineer.
14. The R1-101 "WAIT ON STOP" sign and the R1-102 "GO ON STOP" sign shall be installed at the AHEAD location on approach lanes or they may be located on the R1-101 "STOP" sign. They shall not obscure the face of the STOP/SLOW AHEAD sign.
15. The length of the AHEAD sign shall be 16' or less.

For construction or maintenance contract work, specific project requirements shall be stated in the project description. Signs and traffic flow shall be as shown.

TRAFFIC CONTROL PLAN
AUTOMATED FLAGGER ASSISTANCE DEVICES (AFADS)
TCP (1-6) -12




| Postcode Sample # | Formula | Adaptive Taper Lengths 10 ³ m | Suggested Max. num. Chosen Devices | Suggested Max. num. Sight Lines | Suggested Buffer Size B ² |
|-------------------------|---------------|---|---|--|---|
| 30 | $\frac{W}{2}$ | 150, 150, 180 | 30, 60 | 120 | 96 ² |
| 35 | $\frac{W}{2}$ | 205, 225, 245 | 35, 70 ² | 160 | 120 ² |
| 40 | $\frac{W}{2}$ | 265, 295, 320 | 40, 80 ² | 240 | 155 ² |
| 45 | $\frac{W}{2}$ | 450, 495, 540 | 45, 90 ² | 320 | 195 ² |
| 50 | $\frac{W}{2}$ | 500, 550, 600 | 50, 100 ² | 400 | 240 ² |
| 55 | $\frac{W}{2}$ | 550, 605, 660 | 55, 110 ² | 500 | 295 ² |
| 60 | $\frac{W}{2}$ | 600, 660, 720 | 60, 120 ² | 600 | 360 ² |
| 65 | $\frac{W}{2}$ | 650, 715, 780 | 65, 130 ² | 700 | 410 ² |
| 70 | $\frac{W}{2}$ | 700, 770, 840 | 70, 140 ² | 800 | 475 ² |
| 75 | $\frac{W}{2}$ | 750, 825, 900 | 75, 150 ² | 900 | 540 ² |

L=Length of Taper (FT) W=Width of Offset (FT) S=Posted Speed (MPH)

TYPICAL USAGE

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

1. Flange control to signal where blown, or a REDUFRLO.
2. All traffic control devices illustrated are REDUFRLO, except these devices, which are not shown. These devices may be added as alternate devices in the plans, or for routine administration work, when approved by the Engineer.
3. Overlizing devices used to close lanes may be shop fabricated with the Chevron Alignment Sign placed on every other overlizing device. Alternatives may be attached to plastic drums as per C&G Standards.
4. Oscillating or strobe lights: A Strobe vehicle with TMA may be used if any item can be positioned 20 to 100 feet in advance of the area of work assurance without adversely affecting the performance or quality of the work. If workers are no longer present but road or barricades or other channelizing devices are still in place, Type 3 Barricades or other channelizing devices may be added for the Strobe vehicle and TMA.
5. Additional Strobe vehicle with TMA may be positioned in each closed lane, on the shoulder or off the closed barrels, next to those placed in order to protect a wider work area.

 Texas Department of Transportation
Traffic Operations Division

TRAFFIC CONTROL PLAN LANE CLOSURES FOR DIVIDED HIGHWAYS

TCP (1-5)-11