

## 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

| X    | Right of Way Permit       |
|------|---------------------------|
|      | Commercial Driveway Permi |
| Dorr | nit No: 2018-21686        |

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. Amount: \$50,000.00 Perpetual bond currently Bond No: posted. Performance bond submitted. Bond No: Amount: Cashier's Check Check No: Amount:

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

6/25/2018

Permit Administrator

Date

Date

(3) DRAINAGE DISTRICT APPROVAL (WHEN APPLICABLE):

**Drainage District Approval** 



### REVIEW BY FORT BEND COUNTY COMMISSIONERS COURT

# Fort Bend County Engineering Department 301 Jackson Suite 401

Richmond, Texas 77469 281.633.7500 Permits@fortbendcountytx.gov

| Х    | Right of Way Permit               |
|------|-----------------------------------|
|      | <b>Commercial Driveway Permit</b> |
| Perr | nit No: 2018-21686                |

| Appl                           | icant:                                  | Crown  | Castle NG Central LLC  |   |  |  |       |
|--------------------------------|---|--|--|---|--|--|-------|
| Job I                          | Locat                                   | ion Site:  | 17500 W. Grand Parkway   | S., Sugar land  | d, TX 77479  |  |       |
| Bond                           | d No.                                   |  | Date of Bond:  | 5/12/2014   | _Amount:   | \$50,000.00  |       |
| Layin<br>Road<br>Comr<br>Texas | g, Cor<br>s, Stre<br>missio<br>s, of th | nstruction,<br>eets, Highv<br>ners Court<br>ne Minutes | Maintenance, and Repair of vays, and Drainage Ditches to Fort Bend County, Texas | of Buried Cables<br>in Fort Bend Co<br>s," as passed by<br>irt of Fort Bend | s, Conduits, and<br>ounty, Texas, Ur<br>the Commission<br>County, Texas, | ubject to, "The Order Regulating to Pole Lines, In, Under, Across or Ander the Jurisdiction of the oners Court of Fort Bend County, to the extent that such order is n | Along |
| Note: 1. 2. 3.                 | Evid<br>grou<br>Writ                    | unds for jo<br>eten notice<br>a. 4<br>b. V             | b shutdown.<br>es are required:<br>18 hours in advance of cons                   | truction start u<br>eted and ready<br>rnmentOnline.c                        | p, and<br>for final inspec<br>org portal.                                | o site and failure to do so constitu<br>etion, submit notification to Permi  |       |
| Comr<br>notic                  | missio<br>e of sa                       | ner<br>aid above                                       |  | ly put and carriedged by the Co   | ed, it is ORDERI<br>ommissioners C                                       | , seconded by ED, ADJUDGED AND DECREED tha ourt of Fort Bend County, Texas, a  |       |
| <b>Signa</b><br>By:            |   | nty Enginee  | Eghten.  |   |  | issioners Court and approved Comm. Court No  | _     |
| Ву:                            | N/A                                     | , ,  |  | Clerk<br>By:  | c of Commission  | ners Court   |       |
|                                | Drair                                   | nage Distri  | ct Engineer/Manager  |   | Deputy   |  |       |

 From:
 Gary Gehbauer

 To:
 Velasquez, Courtney

 Cc:
 Garza, Sandy

Subject: RE: Fibernet Direct - HDPE Innerduct and Fiber under W. Grand Pkwy S along north ROW I-69 (in Sugar Land)

**Date:** Friday, June 22, 2018 2:39:57 PM

Good afternoon Courtney,

Yes, I did speak to them. They did incorporate what I was looking for. This should be good to go from the toll road authority.

Have a good weekend.

Gary Gehbauer, PE BGE 10777 Westheimer, Suite 400 Houston, Texas 77042 (281)558-8700 voice (281)558-9706 fax ggehbauer@bgeinc.com

**From:** Velasquez, Courtney [mailto:Courtney.Velasquez@fortbendcountytx.gov]

**Sent:** Friday, June 22, 2018 2:36 PM

**To:** Gary Gehbauer < GGehbauer @bgeinc.com >

Cc: Garza, Sandy <Sandy.Garza@fortbendcountytx.gov>

Subject: FW: Fibernet Direct - HDPE Innerduct and Fiber under W. Grand Pkwy S along north ROW I-

69 (in Sugar Land)

Hi Gary,

Please see the information highlighted below. I have attached their site plan. If you would please confirm that they have complied with everything you have requested so that I can process this permit.

Thank you,

Courtney Velasquez
Clerk III
Fort Bend County Engineering

301 Jackson St., Suite 401 | Richmond, TX 77469

Email: <u>Courtney.Velasquez@fortbendcountytx.gov</u>

Phone: 281-633-7516

From: Garza, Sandy

**Sent:** Friday, June 22, 2018 11:04 AM

To: Randy Watkins

Subject: RE: Fibernet Direct - HDPE Innerduct and Fiber under W. Grand Pkwy S along north ROW I-69

(in Sugar Land)

Thank you!

From: Randy Watkins [mailto:FCS.Randy@outlook.com]

**Sent:** Friday, June 22, 2018 10:54 AM **To:** Garza, Sandy; Larry Anderson

Cc: Permits

Subject: RE: Fibernet Direct - HDPE Innerduct and Fiber under W. Grand Pkwy S along north ROW I-69

(in Sugar Land)

Sandy Garza,

I submitted the revised permit for the proposed fiber crossing at W. Grand Parkway S. and Southwest Freeway on the Fort Bend County permit site.

The application number is APP-23947 and the address is 17500 W. Grand Pkwy. S.

Larry and I spoke to Gary Gehbauer yesterday and reviewed his comments. After looking at the permit again ,he said the proposed was at 90 degrees. We have added his other requested notes.

If you have any questions, please give me a call.

Thank you,

Randy Watkins FiberComm Services, LLC 713-376-6012

**From:** Garza, Sandy < <u>Sandy.Garza@fortbendcountytx.gov</u>>

**Sent:** Wednesday, June 20, 2018 2:57 PM

**To:** Randy Watkins < <a href="mailto:FCS.Randy@outlook.com">FC\_S@live.com</a>>; Larry Anderson < <a href="mailto:FC\_S@live.com">FC\_S@live.com</a>>

**Cc:** Permits < <u>Permits@fortbendcountytx.gov</u>>

**Subject:** FW: Fibernet Direct - HDPE Innerduct and Fiber under W. Grand Pkwy S along north ROW I-

69 (in Sugar Land)

Randy or Larry,

Please see below for comments from the FBTRA. After all comments have been addressed, you can upload the final drawings into our online permit application. This will be routed back to Gary or Phil with the FBTRA for final comments/no objection before proceeding with processing the permit and sending to Commissioners Court for approval.

Additional information regarding the permit process and the "customer portal" can be found here: <a href="https://www.fortbendcountytx.gov/government/departments/county-services/engineering/permits/working-in-right-of-ways-drainage-ditches">https://www.fortbendcountytx.gov/government/departments/county-services/engineering/permits/working-in-right-of-ways-drainage-ditches</a>).

Please also continue to work with City of Sugar Land to acquire any necessary permits through their

office.

Thank you,
Sandy Garza
Development Assistant
Fort Bend County Engineering
301 Jackson Street, 4<sup>th</sup> Floor
Richmond, TX 77469
281-633-7518 (direct line)
Casandra.Garza@fortbendcountytx.gov
Website: www.fortbendcountytx.gov

From: Gary Gehbauer [mailto:GGehbauer@bgeinc.com]

Sent: Wednesday, June 20, 2018 12:08 PM

To: Garza, Sandy

Cc: Phil Martin (philmartin@mikestoneassociates.com); John Fletcher

(JohnFletcher@mikestoneassociates.com)

**Subject:** RE: Fibernet Direct - HDPE Innerduct and Fiber under W. Grand Pkwy S along north ROW I-69 (in Sugar Land)

Sandy,

I don't believe I have seen this before. Comments below.

- The crossing or the Grand Parkway must be at a 90 degree angle; not skewed as shown in the drawing.
- Depth note on page 6 of 7: Due to future bridge and/or retaining wall construction, the line must be at least 10 feet below the frontage road elevation.
- The line may have to be relocated if future construction conflicts with this location
- Need locations of bore pits and/or equipment crew locations within Grand Parkway right of way.
- Include FBTRA permit requirements (attached).

Thanks,

Gary

Gary Gehbauer, PE BGE 10777 Westheimer, Suite 400 Houston, Texas 77042 (281)558-8700 voice (281)558-9706 fax ggehbauer@bgeinc.com

**From:** Garza, Sandy [mailto:Sandy.Garza@fortbendcountytx.gov]

**Sent:** Wednesday, June 20, 2018 11:12 AM **To:** Gary Gehbauer < <u>GGehbauer@bgeinc.com</u>>

Subject: FW: Fibernet Direct - HDPE Innerduct and Fiber under W. Grand Pkwy S along north ROW I-

69 (in Sugar Land)

Gary,

Any comments on this attached plan set? I don't know if they have submitted for permit yet; I had trouble finding it in our system if they did.

Thank you,
Sandy Garza
Development Assistant
Fort Bend County Engineering
301 Jackson Street, 4<sup>th</sup> Floor
Richmond, TX 77469
281-633-7518 (direct line)
Casandra.Garza@fortbendcountytx.gov
Website: www.fortbendcountytx.gov

From: Randy Watkins [mailto:FCS.Randy@outlook.com]

Sent: Wednesday, June 20, 2018 9:29 AM

**To:** Garza, Sandy **Cc:** Larry Anderson

Subject: RE: Fibernet Direct - HDPE Innerduct and Fiber under W. Grand Pkwy S along north ROW I-69

(in Sugar Land)

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Sandy Garza,

Per your request, I have attached a PDF file for the SH 99 (W. Grand Pkwy. S.) permit.

If you have any questions, please give me a call.

Thank you,

Randy Watkins FiberComm Services, LLC 713-376-6012

**From:** Larry Anderson < FC\_S@live.com> **Sent:** Tuesday, June 19, 2018 5:06 PM

**To:** Randy Watkins < <a href="mailto:FCS.Randy@outlook.com">FCS.Randy@outlook.com</a>>

Subject: FW: Fibernet Direct - HDPE Innerduct and Fiber under W. Grand Pkwy S along north ROW I-

69 (in Sugar Land)

From: Garza, Sandy < Sandy. Garza@fortbendcountytx.gov>

**Sent:** Tuesday, June 19, 2018 4:27 PM

To: FC S@live.com

Subject: Fibernet Direct - HDPE Innerduct and Fiber under W. Grand Pkwy S along north ROW I-69

(in Sugar Land)

Mr. Anderson,

Fort Bend County has received two projects for ROW permits from your office. The one referenced above is wholly within the City of Sugar Land, but since it is along the Toll Road, it will still need a FBC ROW permit. I typically send these over to the FBTRA for review, but I'm having trouble scanning the document due to the multiple folds. Can you please send over a digital copy so I can forward over for review?

The project number at the top was HO 01006A-Span 336 – SH 99.

Thank you,
Sandy Garza
Development Assistant
Fort Bend County Engineering
301 Jackson Street, 4<sup>th</sup> Floor
Richmond, TX 77469
281-633-7518 (direct line)
Casandra.Garza@fortbendcountytx.gov
Website: www.fortbendcountytx.gov

Report This Message as Spam to FBCIT

Report This Message as Phishing to FBCIT

### Attach the message to the E-Mail

Right-Click the Spam/Phish message (not the text) copy and paste into the body of the new message. Should show as an envelope under attachments.

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# **Fort Bend County Notice of Construction in Right-of-Way**

HO 01006A-Span 336 - SH 99

PROPOSED BORED HDPE INNERDUCT AND FIBER TO BE PLACED UNDER W. GRAND PARKWAY S. (SH 99) ALONG THE NORTH R.O.W. **OF SOUTHWEST FREEWAY (I-69)** 

MAP AREA LOCATION:

A - LOC: HO 01006A /

167787-FLANAGAN

A - ADDRESS: 14000 1/5 UNIVERSITY

BLVD. Z LOC:

HO 01006A /

108867-GREATWOOD

Z - ADDRESS: 1720 CRAB RIVER RD



### SITE LOCATION

KEY MAP: 607 G

### FBTRA NOTES:

READ SHEETS 1 THRU 4 OF THE FORT BEND TOLL ROAD **AUTHORITY PERMIT** REQUIREMENTS PRIOR TO THE START OF CONSTRUCTION.

THE FBTRA PERMIT REQUIREMENT SHEETS ARE TO BE ATTACHED TO THIS PERMIT AT ALL TIMES.

### PERMITS REQUIRED /CONTACTS

FORT BEND COUNTY

CARMEN ESCOBAR, CFM FORT BEND COUNTY ENGINEERING 281-633-7503

### DRAWING LIST

FT. BEND COUNTY PERMIT FORM

EBTRA PERMIT REQUIREMENT SHEET

FBTRA PERMIT REQUIREMENT SHEET 2

FBTRA PERMIT REQUIREMENT SHEET 4

COVER SHEET GENERAL NOTES

PROJECT SHEET 13 10. PROJECT SHEET 13A (AERIAL IMAGE)
11. PROFILE SHEET 1

12. TXDOT R.O.W. SHEET 1

13. TRAFFIC CONTROL SHEET 1

14. TRAFFIC CONTROL SHEET 2 15. TRAFFIC CONTROL SHEET 3

. TRAFFIC CONTROL SHEET 4

#### **DESIGN CONTRACTOR:**

Design Co: FiberComm Services, LLC

Designer: Larry Anderson

713-726-1928

### CONTRACTOR NOTE



### **GENERAL NOTES**

### **GENERAL NOTES:**

- 1. CONTRACTOR MUST OBTAIN LOCATES PRIOR TO DISTURBING THE GROUND.
- 2. THE CONTRACTOR SHALL CONTACT A MEMBER OF TEXAS ONE CALL SYSTEM A MIN. OF 48 HOURS BEFORE DIGGING. YOU ONLY NEED TO CONTACT ONE CENTER. THAT CENTER WILL RELAY THE INFORMATION TO THE OTHER TWO CENTERS.
- TEXAS ONE CALL 713-223-4567 OR 1-800-245-4545
- TESS (TEXAS EXCAVATION SAFETY SYSTEM) 811
- LONE STAR NOTIFICATION SYSTEM 800-669-8344 OR 713-223-4567
- REMINDER: ANY UNDERGROUND FACILITY OWNERS WHO ARE NOT MEMBERS OF TEXAS ONE CALL, TESS OR LONESTAR
- 3. NOTIFICATION CENTERS IN THE STATE OF TEXAS, MUST BE CONTACTED DIRECTLY BY THE ORIGINATOR OF THE LOCATION REQUEST.
- 4. CONTRACTOR MUST HAVE A COPY OF THE APPROVED PERMIT FROM THE APPROPRIATE AGENCY ON THE JOBSITE AT ALL TIMES.
- 5. THE CONTRACTOR SHALL VERIFY THE ROAD R.O.W. AND EASEMENTS PROIR TO COMMENCING WORK. NO FACILITIES SHOULD BE PLACED ON PRIVATE PROPERTY UNLESS OTHERWISE SPECIFIED.
- 6. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL UNDERGROUND FACILITIES BEFORE COMMENCING WORK AND AGREE TO BE FULLY RESPONSIBLE FOR ALL DAMAGES CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ALL UNDERGROUND FACILITIES.
- 7. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES TO EXISTING WATER, WASTEWATER AND STORM DRAINAGE LINES. DAMAGES SHALL BE REPAIRED IN ACCORDANCE WITH THE MUNICIPALITY AGENCY (STATE, COUNTY, OR CITY), DEPARTMENT OF PUBLIC WORKS AND ENGINEERING'S STANDARD CONSTRUCTION SPECIFICATIONS FOR WASTEWATER COLLECTION SYSTEMS, WATER LINES, STORM DRAINAGE, AND STREET PAVING AND STREET PAVING AND STRUCTION DETAILS FOR WASTEWATER COLLECTION S SYSTEMS, WATER LINES, STORM DRAINAGE, AND STREET PAVING REFERENCED ABOVE, AT NO ADDITIONAL COST.
- 8. MOST CITIES AND MUD'S ARE NOT PART OF A ONE CALL SYSTEM. IT IS THE RESPONSIBILITY OF THE CONSTRUCTION CONTRACTOR TO NOTIFY THESE AGENCIES PRIOR TO CONSTRUCTION.
- 9. ALL CABLE WILL BE PLACED AT STANDARD MINIMUM DEPTH. (CROWN CASTLE FIBER STANDARD IS 48" DEEP UNLESS OTHERWISE DIRECTED BY A CROWN CASTLE FIBER REPRESENTATIVE OR SPECIFIED ON THE DRAWING.)
- 10. NO MORE TRENCH OPENED AT ONE TIME THAN CAN BE BACKFILLED AND COMPACTED IN 10" LIFTS AT THE END OF EACH DAY. ( NO TRENCH LEFT OPENED OVERNIGHT )
- 11. ALL EXCESS EXCAVATION TO BE REMOVED FROM THE ROAD RIGHT-OF-WAY AT THE END OF EACH DAY.
- 12. ADEQUATE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION AND ANY DRAINAGE DITCH OR STRUCTURE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO EXISTING CONDITIONS OR BETTER.
- 13. ROAD MUST BE KEPT OPEN TO TRAFFIC AND CONTRACTOR MUST PROVIDE ADEQUATE FLAGMEN, SIGNALS, ETC., TO PROVIDE COMPLETE SAFETY TO THE PUBLIC. IF IT BECOMES NECESSARY FOR EQUIPMENT TO OPERATE ON A PORTION OF THE PAVEMENT, PRECAUTIONS MUST BE TAKEN TO PREVENT ANY DAMAGE WHATSOEVER TO THE PAVEMENT.
- 14. CONDITION OF ROAD UPON COMPLETION OF JOB SHALL BE AS GOOD OR BETTER THAN PRIOR TO STARTING
- 15. CONTRACTOR SHALL COMPLY WITH LATEST EDITION OF OSHA REGULATIONS AND THE STATE OF TEXAS LAWS CONCERNING EXCAVATION.
- 16. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PROTECT ROOT SYSTEMS OF SHRUBS, PLANTS, AND TREES ALONG THE AREA OF EXCAVATION.
- 17. NO CONSTRUCTION ON PRIVATE PROPERTY WILL COMMENCE UNTIL RIGHT OF ENTRY OR EASEMENT IS GRANTED.
- 18. CONTRACTOR SHALL NOT EXCEED THE PURCHASE ORDER VALUE WITHOUT AUTHORIZATION IN WRITING FROM THE APPROPRIATE CROWN CASTLE FIBER REPRESENTATIVE ANY LANDSCAPING WILL BE REPLACED TO EQUAL OR BETTER THAN THAT WHICH EXISTED PRIOR TO WORK.
- 19. PROJECT SITE WILL BE PROPERLY SECURED PRIOR TO THE END OF EACH DAY.
- 20. ALL WORK IS TO BE IN ACCORDANCE WITH THE STANDARDS OF ALL AUTHORITIES HAVING JURISDICTION IN THE WORK ZONE.
- 21. CONTRACTORS ARE ADVISED TO CONTACT CROWN CASTLE FIBER FOR ANY ADDITIONAL INFORMATION OR CLARIFICATION CONCERNING SCOPE OF WORK OR THE REQUIREMENTS NECESSARY FOR PROJECT COMPLETION.
- 22. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, QUANTITIES AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION. IF A SIGNIFICANT CHANGE TO THE RUNNING LINE IS NEEDED, PLEASE CONTACT YOUR CROWN CASTLE FIBER REPRESENTATIVE BEFORE PROCEEDING.
- 23. BEFORE CONSTRUCTION BEGINS, CONTRACTOR SHALL TAKE APPROPRIATE PRECAUTIONS TO AVOID ANY POTENTIAL OBSTRUCTIONS PRIOR TO PROCEEDING WITH WORK.
- 24. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PROTECT ROOT SYSTEMS OF SHRUBS, PLANTS, AND TREES ALONG THE AREA OF EXCAVATION.
- 25. CONTRACTOR WILL COMPLETE ALL WORK PER "CROWN CASTLE FIBER" CONSTRUCTION SPECIFICATIONS.
- 26. CONTRACTOR SHALL MAINTAIN A SET OF REDLINE DRAWINGS RECORDING AS-BUILT CONDITIONS DURING CONSTRUCTION. THESE REDLINE MARKED UP DRAWINGS WILL BE SUBMITTED TO THE DESIGN CONSULTANT WHO WILL MAKE THE CHANGES ON THE AS-BUILT RECORD DRAWINGS.
- 27. RIGHT-OF-WAY WILL BE RESTORED TO EQUAL OR BETTER CONDITION WHEN CONSTRUCTION IS COMPLETE.

| ABBR.  | DESCRIPTION               |
|--------|---------------------------|
|        |                           |
| B.O.   | BUILDING OWNED            |
| B.O.C. | BUILDING OWNED CONDUIT    |
| EOC    | EDGE OF CURB              |
| EMT    | ELECTIC METALLIC TUBING   |
| EOP    | EDGE OF PAVEMENT          |
| FDP    | FIBER DISTRIBUTION PANEL  |
| FF     | FINISHED FLOOR            |
| FMC    | FLEXIBLE METALLIC CONDUIT |
| GRC    | GALVANIZED RIGID CONDUIT  |
| HDPE   | HIGH DENSITY POLYETHYLENE |
| HH     | HANDHOLE                  |
| JB     | JUNCTION BOX              |
| MH     | MANHOLE                   |
| PB     | PULLBOX                   |
| PL     | PROPERTY LINE             |
| PVC    | POLYVINYL CHLORIDE        |
| ROW    | RIGHT OF WAY              |
| SP     | SPLICE PANEL              |
| STA.   | STATION                   |
| S/W    | SIDEWALK                  |

DECODIDATION

### FBTRA NOTES:

READ SHEETS 1 THRU 4 OF THE FORT BEND TOLL ROAD AUTHORITY PERMIT REQUIREMENTS PRIOR TO THE START OF CONSTRUCTION.

THE FBTRA PERMIT
REQUIREMENT SHEETS ARE TO
BE ATTACHED TO THIS PERMIT
AT ALL TIMES.

### APWA STANDARD

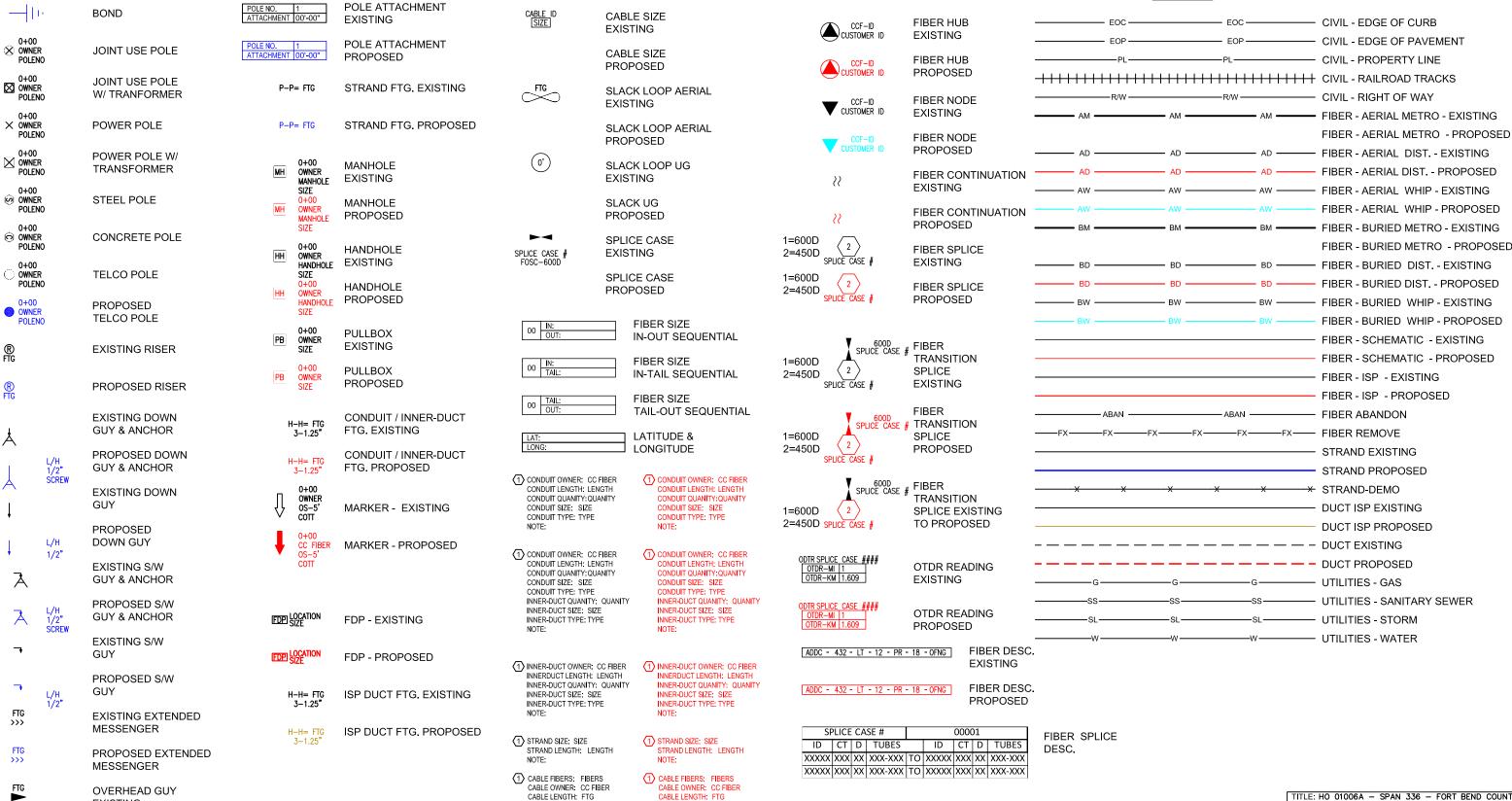
COLOR CODE FOR TEMPORARY MARKING OF UNDERGROUND FACILITIES:

RED = ELECTRIC POWERLINES, CABLES, CONDUIT, AND LIGHTING CABLES
YELLOW = GAS, OIL, STEAM, PETROLEUM, OR GASEOUS MATERIAL
ORANGE = COMMUNICATION, ALARM, OR SIGNAL LINES, CABLES, OR CONDUIT
BLUE = POTABLE WATER
GREEN = SEWER AND DRAIN LINES
PURPLE = RECLAIMED WATER, IRRIGATION, AND SLURRY
PINK = TEMPORARY SURVEY MARKINGS
WHITE = PROPOSED EXCAVATION



| TITLE: HO 01006A - SPAN 336 - FORT BEND COUNTY<br>VzWSpan336_1720 CRAB RVER RD_B-5289-028_ED_18 |          |                  |           |
|---|----------|------------------|-----------|
| LOC:<br>FORT BEND COUNTY  |          |                  |           |
| CV#:  |          |                  |           |
| PM: Ronnie Shorthose 346-206-5092   |          |                  |           |
| DWG: Fort Bend County - HO 01006A-Span 336 - 9  |          |                  | n 336 – S |
| DRAWING   | DATE     | ENG DESIGI       | V         |
| ORIGINAL  | 06/22/18 | FCS              |           |
| Rev#1 N/A N/A   |          |                  |           |
| AS-BUILT N/A N/A  |          |                  |           |
|   | CRO      | <b>WN</b>  FIBER | PAGE: 7   |
| $\mathcal{O}$   | CAS'     | TLE              | OF: 16    |
| PROPRIETARY INFORMATION OF CROWN CASTLE FIBER   |          |                  | E FIBER   |

### **LEGEND**



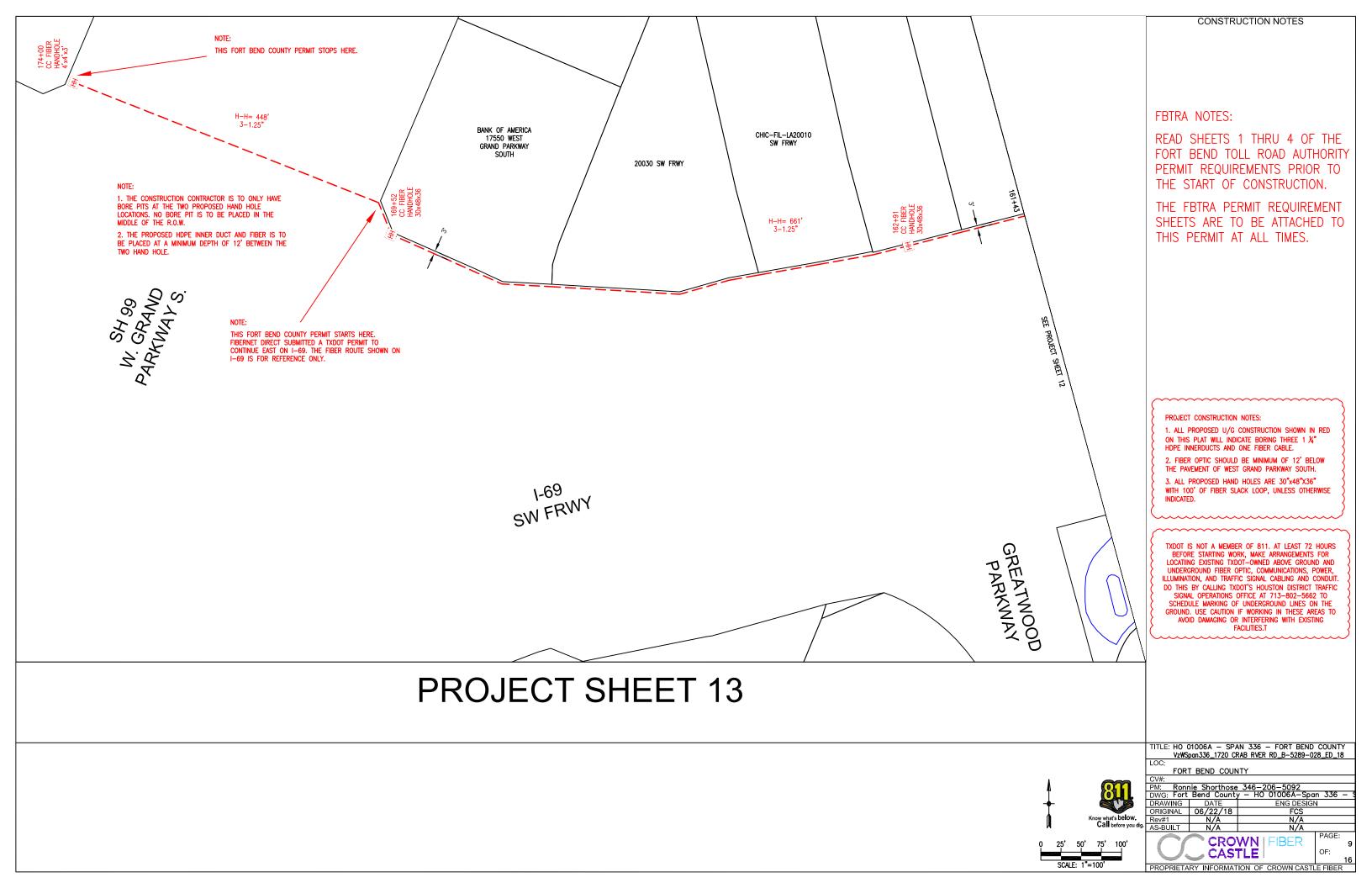
**EXISTING** 

OVERHEAD GUY PROPOSED



**LINETYPES** 

|   | TITLE: HO 01006A - SPAN 336 - FORT BEND COUNTY |          |          |  |
|---|--|----------|----------|--|
|   | pan336_1720 CF                                 | <u> </u> | 28_ED_18 |  |
| LOC:  |  |          |          |  |
| FOR   | T BEND COUN                                    | ITY      |          |  |
| CV#:  |  |          |          |  |
| PM: Ronr  | PM: Ronnie Shorthose 346-206-5092              |          |          |  |
| DWG: Fort Bend County - HO 01006A-Span 336 - \$ |  |          |          |  |
| DRAWING   | DRAWING DATE ENG DESIGN                        |          |          |  |
| ORIGINAL 06/22/18 FCS                           |  | FCS      |          |  |
| Rev#1 N/A N/A                                   |  |          |          |  |
| AS-BUILT  | AS-BUILT N/A N/A                               |          |          |  |
| PAGE:   |  |          |          |  |
| CROWN   FIBER   PAGE. 8                         |  |          |          |  |
| CASTLE OF:                                      |  |          |          |  |
| 16  |  |          |          |  |
| PROPRIETARY INFORMATION OF CROWN CASTLE FIBER   |  |          |          |  |





### FBTRA NOTES:

READ SHEETS 1 THRU 4 OF THE FORT BEND TOLL ROAD AUTHORITY PERMIT REQUIREMENTS PRIOR TO THE START OF CONSTRUCTION.

THE FBTRA PERMIT REQUIREMENT SHEETS ARE TO BE ATTACHED TO THIS PERMIT AT ALL TIMES.

#### ROJECT CONSTRUCTION NOTES:

1. ALL PROPOSED U/G CONSTRUCTION SHOWN IN RED ON THIS PLAT WILL INDICATE BORING THREE 1 1/4" HDPE INNERDUCTS AND ONE FIBER CABLE.

2. FIBER OPTIC SHOULD BE MINIMUM OF 12' BELOW THE PAVEMENT OF WEST GRAND PARKWAY SOUTH.

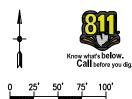
3. ALL PROPOSED HAND HOLES ARE 30"x48"X36" WITH 100" OF FIBER SLACK LOOP, UNLESS OTHERWISE INDICATED.

TXDOT IS NOT A MEMBER OF 811. AT LEAST 72 HOURS BEFORE STARTING WORK, MAKE ARRANGEMENTS FOR LOCATINING EXISTING TXDOT-OWNED ABOVE GROUND AND UNDERGROUND FIBER OPTIC, COMMUNICATIONS, POWER, ILLUMINATION, AND TRAFFIC SIGNAL CABLING AND CONDUIT. DO THIS BY CALLING TXDOT'S HOUSTON DISTRICT TRAFFIC SIGNAL OPERATIONS OFFICE AT 713-802-5662 TO SCHEDULE MARKING OF UNDERGROUND LINES ON THE GROUND. USE CAUTION IF WORKING IN THESE AREAS TO AVOID DAMAGING OR INTERFERING WITH EXISTING FACILITIES.T

#### NOTE:

EXISTING PARCELS & RIGHT OF WAY ARE
BASED ON F.B.C.A.D. GIS MAP. AERIAL
IMAGES ARE FROM BING MAPS. THE
AERIAL IMAGE WITH THE DESIGN IS FOR
REFERENCE ONLY. THE CONTRACTOR SHALL
VERIFY THE ROAD RIGHT OF WAY AND
EASEMENTS PRIOR TO COMMENCING WORK.

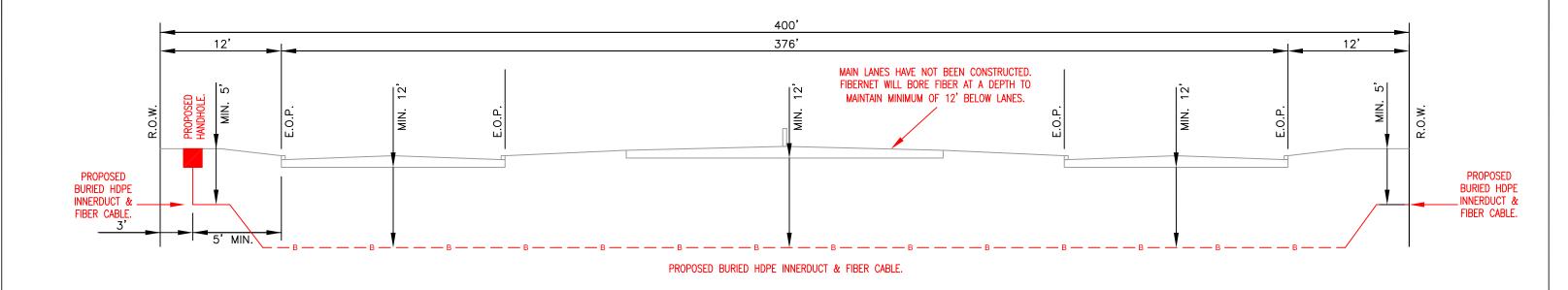
### PROJECT SHEET 13A - AERIAL IMAGE FOR REFERENCE ONLY



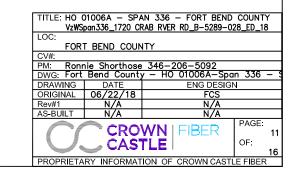
TITLE: HO 01006A - SPAN 336 - FORT BEND COUNTY VzWSpan336\_1720 CRAB RVER RD\_B-5289-028\_ED\_18

FORT BEND COUNTY

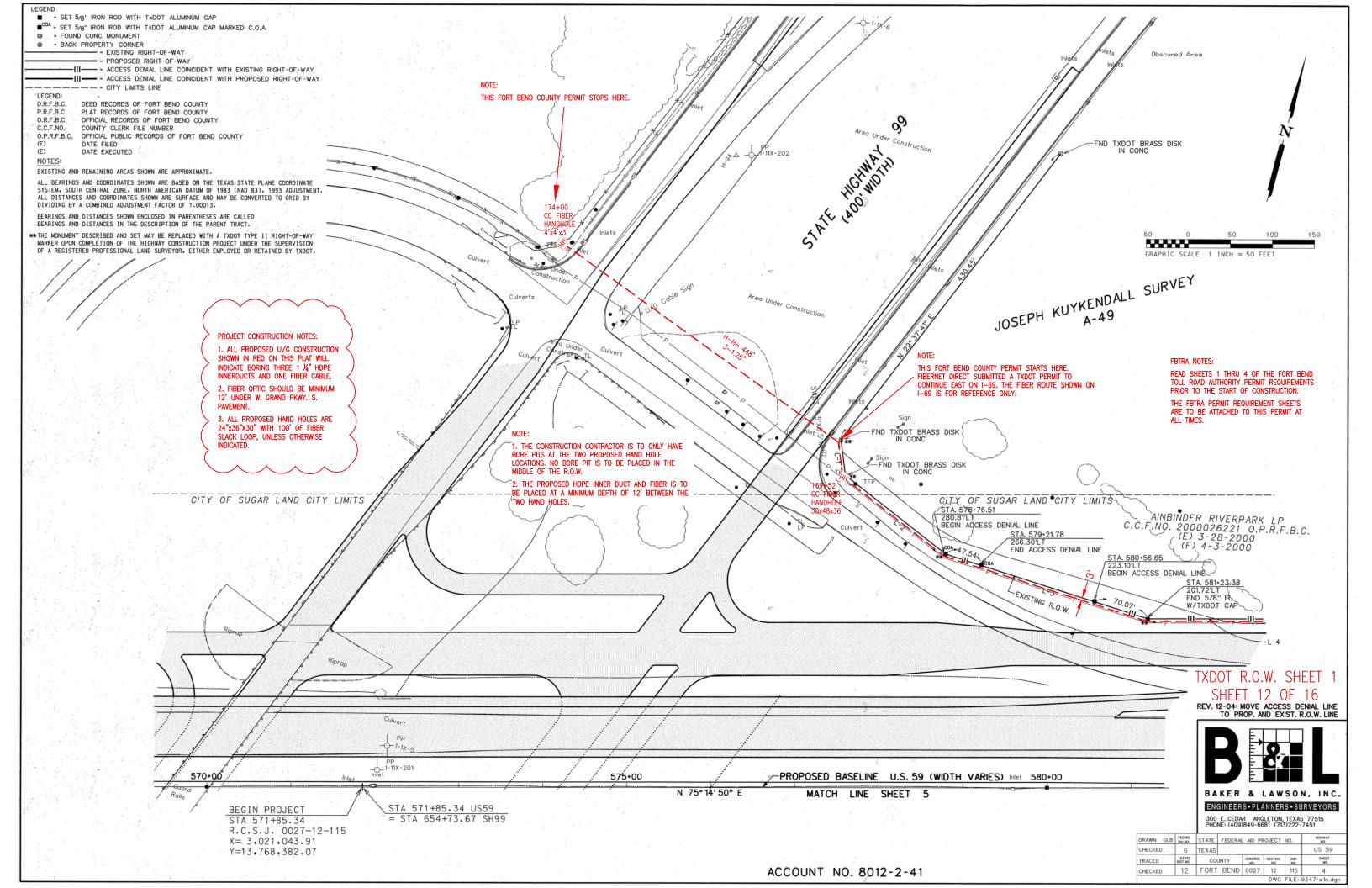
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SH 99 (W. GRAND PKWY.S.) AT SOUTHWEST FREEWAY (I-69) LOOKING NORTHEAST



### **PROFILE SHEET 1**



### PERMIT REQUIREMENTS (May 2018)

# FORT BEND GRAND PARKWAY TOLL ROAD AUTHORITY AND FORT BEND COUNTY TOLL ROAD AUTHORITY (collectively known as FBTRA)

- A preconstruction meeting with Authority's staff will be required before commencing work.
   Contact Phil Martin with FBTRA at (713) 574-5261 office; (832) 907-5726 cell), or philmartin@fbctra.com to schedule the meeting.
- All work within the right-of-way shall be performed in accordance with TxDOT standards and specifications as to the installation and materials used. All materials and mix designs to be placed in TxDOT right-of-way must be obtained from TxDOT approved sources and be of approved TxDOT or FBTRA mix designs.
- At least five (5) working days prior to any excavation, permittee shall request the location of all
  underground utilities within the work area by calling 811, and contacting local municipalities, utility
  districts, school districts, or any other utility owners. Do not perform underground work on the
  project until FBTRA owned facilities have been located and marked. Use caution when working in
  these areas to avoid damaging or interfering with existing facilities. Permittee shall be responsible
  for relocating and/or adjusting any utilities within the work area.
- Any work with in the toll road right of way requires a traffic control plan (TCP); even if lanes are not affected. Utility borings that don't require equipment or personnel within the right of way do not require TCP.
- This permit is subject to a separate traffic control plan being approved by the Authority's Engineer. All work must follow the TxDOT Traffic Control Plan Standards, Latest Revision, or if approved, Typical Applications shown in the Texas Manual on Uniform Traffic Control Devices, Latest Revision, Chapter 6-H. The advanced warning signage shown on standards BC (1)-14 thru BC (12)-14 will be required. It is mutually agreed and understood that the implementation and maintenance of the traffic control plan shall be the responsibility of the Permittee. Contractor is required to supply all sub-contractors with a copy of this permit and approved traffic control plan. The person in charge for permittee/contractor on the job site shall have a copy of the permit and approved Traffic Control Plan (TCP) at all times.
- No lane closures permitted during peak hours without authorization from the Authority. Peak hours are weekdays from 5am to 9am, and 3pm to 7pm. No lane closures on holidays or holiday weekends.
- Designate in writing, a Contractor's Responsible Person (CRP) and an alternate to be the representative of the Contractor who is responsible for taking or directing corrective measures regarding the traffic control. The CRP or alternate must be accessible by phone 24 hr. per day and able to respond when notified. The CRP and alternate must comply with the requirements of TxDOT Specification, Section 7.2.6.5., "Training."
- Flaggers must be courteous and able to effectively communicate with the public. When directing traffic, flaggers must dress appropriately, wear high-visibility safety apparel, use flags, signs, stop-slow paddles, and other hand-signaling devices, and follow the flagging procedures in the TMUTCD. Comply with the requirements of TxDOT Specification Section 7.2.6.5., "Training."

- Workers involved with traffic control, including the maintenance of the traffic control, must comply with the requirements of TxDOT Specification, Section 7.2.6.5., "Training."
- Provide a copy of the certification of completion to the Engineer, except in the case of Contractordeveloped Training. Ensure the certification of completion includes the following:
  - name of provider and course title,
  - name of participant,
  - date of completion, and
  - date of expiration.

For Contractor developed-Training, maintain a log of attendees. Make the log available upon request. Ensure the log is legible and includes the following:

- print name and signature of participant,
- name and title of trainer, and
- date of training.
- The Permittee shall coordinate the sequence of construction and traffic control plan with any adjacent construction or maintenance projects. No overnight lane closures will be permitted, unless otherwise approved by the Authority's Engineer.
- Work performed within the waterways, such as rivers, creeks, bayous, and drainage ditches, is subject to the concurrence of appropriate regulatory agencies.
- The Permittee certifies that its drainage system meets all storm water quality criteria of the County and/or City where the permit is located.
- All excavations within the right-of-way shall be backfilled according to the TxDOT Standard Specifications for Construction and Maintenance of Highways, Streets, and Bridges (SPECS), Item 400, as currently amended. All surplus material shall be removed from the right-of-way, and the excavation finished flush with surrounding natural ground.
- In no event will an edge drop-off be permitted during the hours of darkness. If the Contractor is
  unable to complete a section before the end of the work day, base material capable of vehicle
  support shall be pulled back to the existing edge on a 4:1 or flatter slope, to provide for driver and
  pedestrian safety.
- The Contractor shall not create a dirt nuisance or safety hazard in any roadway. The pavement shall be cleaned daily.
- All exposed dirt surfaces shall be fully block sodded, unless otherwise approved by the Authority's Engineer. A slope of 4:1, or flatter, shall be required on the ditch front slope. Sod/grass shall be watered until roots have established into soil.
- No valves, meter boxes, cleanouts, ground boxes, handholes, manhole covers, etc. will be
  allowed in the pavement. These appurtenances shall be relocated elsewhere within the right-ofway, unless otherwise approved by the Authority's Engineer.
- The Texas Universal Triangular Slip Base Sign Supports shall be required for all signage within the right-of-way. Proposed signs, or those which require relocation, shall be done in accordance with the following TxDOT standards: SMD (GEN)-08, SMD (SLIP-1)-08, SMD (SLIP-2)-08, and SMD (SLIP-3)-08.
- All work zone pavement markings shall meet the requirements of TxDOT Specification, Item 662.
   All permanent pavement markings shall meet the requirements of TxDOT Specification, Item 666, and be placed in accordance with the following standards: PM (1)-12, PM (2)-12, PM (3)-12, and

*PM* (4)-12. All raised pavement markers shall meet the requirements of TxDOT Specification, Item 672.

- Existing pavement markings shall be removed according to the requirements of TxDOT Specification, Item 677, or to the satisfaction of the Authority's Engineer. All pavement surfaces shall be cleaned and prepared in accordance with TxDOT Specification, Item 678.
- The Contractor shall employ at his/her expense, an approved commercial testing laboratory to perform testing on materials (such as concrete, base, lime, and asphalt). Sample and test concrete in accordance with TxDOT Specifications. Certified reports of all test results shall be submitted to the Authority's Engineer. Make at least one set of test specimens for each element cast each day. Cure these specimens under the same conditions as the portion of the structure involved for all stages of construction. Ensure safe handling, curing, and storage of all test specimens.
- Should the existing roadway pavement or other feature be damaged, the permittee shall make repairs as specified by the Authority's Engineer.
- Inlet depressions in concrete pavement must be removed to prevent ponding in the pavement.
- All storm sewer and culvert pipes used shall be Reinforced Concrete Pipe (RCP).
- Culvert crossings within the 30-foot clear zone (parallel culverts) shall be required to have minimum 6:1 sloping ends known as Safety End Treatments (SETs). The culvert shall have sufficient length to allow the 6:1 slope to be achieved from the top edge of pavement to the flowline at the bottom end of the SET. Culverts that exceed 50' in length shall have a junction box for clean out as specified by the Authority's Engineer.
- Culverts larger than single 33-inch diameter, double 30-inch diameter, or three or more 12-inch diameter shall require safety pipe runners.
- Riprap or stabilizing material shall be provided and installed by grantee at time of construction as directed by Area Engineer.
- Full-depth saw cut shall be made to facilitate removal of the concrete within the limits of the required full-depth cuts. Concrete adjacent to the patch shall not be spalled or fractured by the removal procedure.
- Work areas that have been disturbed must be returned to the original condition and may be required to place grass sod and continual watering until roots are established.
- Placement or removal of beautification on right of way shall be under the direction of the Authority, at the permittees expense. This includes but not limited to landscape, bushes, trees, etc.
- The Grantee certifies that its storm water runoff to the right of way (Authority's/County/State) shall
  not be contaminated by any industrial processes or significant pollutants, and the
  Authority/County/State shall not be held liable for any pollutants entering the right of way through
  storm water connections.
- Grantee shall meet all Americans with Disabilities Act (ADA) and Texas Department of Licensing Regulation (TDLR) requirements for items including but not limited to sidewalks and wheelchair ramps.

- Grantee shall obtain overall environmental clearance with all appropriate regulatory agencies prior to beginning construction. Approval of this request by the Authority/County does not relieve the Grantee or its agents of this obligation.
- Work performed on railroad right-of-way or easements controlled by others is subject to the concurrence of the owner of said properties. Approval of this request by the Authority/County does not relieve the Grantee of this obligation.
- The complete permit package including TCP shall be on the project site at all times and available for review by Authority/County representatives.
- Upon completion of work, submit CADD/Microstation files and pdf of Record Drawings to Phil Martin with FBTRA.
- The Permittee shall indemnify and save harmless the Authority, County and State from any and all damages or losses that may develop due to this project.
- All TxDOT standards are available online for free download:

Statewide <a href="http://www.dot.state.tx.us/business/standardplanfiles.htm">http://www.dot.state.tx.us/business/standardplanfiles.htm</a>
Houston District <a href="http://www.dot.state.tx.us/hou/specinfo/specs.htm">http://www.dot.state.tx.us/hou/specinfo/specs.htm</a>

#### Additional requirements for utilities:

- Contact Phil Martin with FBTRA at (713) 574-5261 office; (832) 907-5726 cell), or philmartin@fbctra.com, at least 48 hours prior to starting work within toll road right of way.
- Access to SH 99/Grand Parkway or Fort Bend Parkway must be coordinated with FBTRA prior to work
- All work must meet TxDOT/State of Texas utility accommodation requirements
- Markers must be placed at the right of way line for all underground utilities. Markers must indicate
  owners name and contact information.
- Utility owner must provide owner's responsible person's name and contact information (not contractor's contact information). Owner's responsible person must be available 24 hours/day – 7 days/week for emergency contact.
- Bore pits within the right of way must be protected during non-work hours.
- Borings must be cased from right of way line to right of way line, unless other approval is received from the Authority

### The Authority will assist as follows:

- 1. Provide inspection of construction.
- 2. This permit issued subject to a traffic control plan, which will be prepared, signed/sealed by permittees agent, will approved by the Authority's Engineer. No work within the right of way shall begin until this approval has been granted.

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### Notes for Figure 6H-1—Typical Application 1 Work Beyond the Shoulder

#### Guidance:

1. If the work space is in the median of a divided highway, an advance warning sign should also be placed on the left side of the directional roadway.

#### Option:

- 2. The ROAD WORK AHEAD sign may be replaced with other appropriate signs such as the SHOULDER WORK sign. The SHOULDER WORK sign may be used for work adjacent to the shoulder.
- 3. The ROAD WORK AHEAD sign may be omitted where the work space is behind a barrier, more than 24 inches behind the curb, or 15 feet or more from the edge of any roadway.
- 4. For short-term, short duration or mobile operation, all signs and channelizing devices may be eliminated if a vehicle with activated high-intensity rotating, flashing, oscillating, or strobe lights is used.
- 5. Vehicle hazard warning signals may be used to supplement high-intensity rotating, flashing, oscillating, or strobe lights.

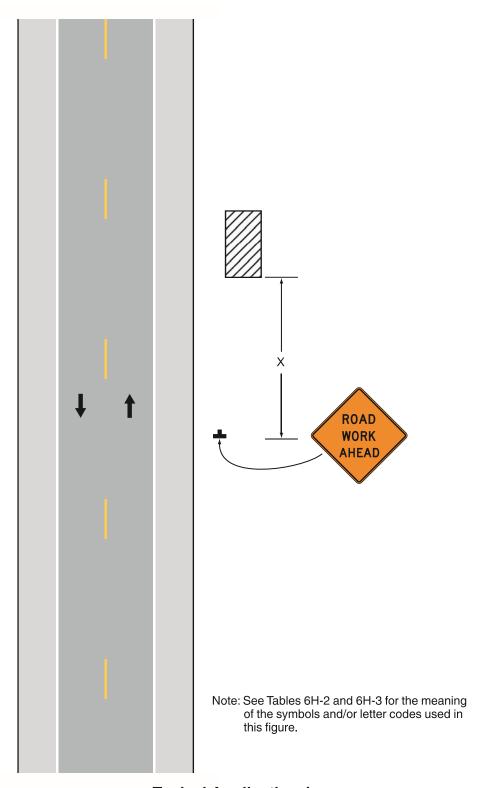
### **Standard:**

6. Vehicle hazard warning signals shall not be used instead of the vehicle's high-intensity rotating, flashing, oscillating, or strobe lights.

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Figure 6H-1. Work Beyond the Shoulder (TA-1)



**Typical Application 1** 

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### Notes for Figure 6H-3—Typical Application 3 Work on the Shoulders

#### Guidance:

1. A SHOULDER WORK sign should be placed on the left side of the roadway for a divided or one-way street only if the left shoulder is affected.

### Option:

- 2. The Workers symbol signs may be used instead of SHOULDER WORK signs.
- 3. The SHOULDER WORK AHEAD sign on an intersecting roadway may be omitted where drivers emerging from that roadway will encounter another advance warning sign prior to this activity area.
- 4. For short duration operations of 60 minutes or less, all signs and channelizing devices may be eliminated if a vehicle with activated high-intensity rotating, flashing, oscillating, or strobe lights is used.
- 5. Vehicle hazard warning signals may be used to supplement high-intensity rotating, flashing, oscillating, or strobe lights.

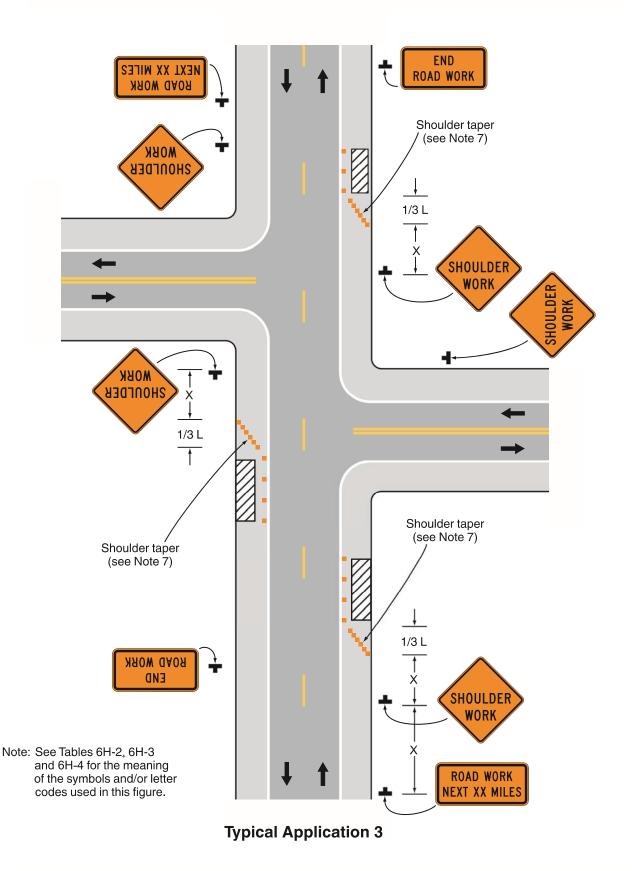
#### Standard:

- 6. Vehicle hazard warning signals shall not be used instead of the vehicle's high-intensity rotating, flashing, oscillating, or strobe lights.
- 7. When paved shoulders having a width of 8 feet or more are closed, at least one advance warning sign shall be used. In addition, channelizing devices shall be used to close the shoulder in advance to delineate the beginning of the work space and direct vehicular traffic to remain within the traveled way.

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Figure 6H-3. Work on the Shoulders (TA-3)



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