

# REVIEW BY FORT BEND COUNTY COMMISSIONERS COURT

# Fort Bend County Engineering Department 301 Jackson Suite 401

301 Jackson Suite 401 Richmond, Texas 77469 281.633.7500 Permits@fortbendcountytx.gov

	X Right of Way	Permit			
	Commercial	Priveway Permit			
	Permit No: 2018-23	-			
	1 311111111111				
Applicant: MCI MetroAccess Transmisson Services,Corp/Golden Field Services					
Job I	Location Site: Trammel Fresno Road, Missouri,	TX 77489			
Bono	Date of Bond: 5/1/2	2017 Amount:\$50,000.00			
Layin Road Comi Texas	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.				
1. 2. 3. 4.	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.				
	and it is the responsibility of the applicant to acqu	me an other necessary permits.			
Commotic		d carried, it is ORDERED, ADJUDGED AND DECREED that said the Commissioners Court of Fort Bend County, Texas, and			
Signa	ature / / /	Presented to Commissioners Court and approved.			
Ву:	County Engineer	Date Recorded 11-16-2018 Comm. Court No. 14C			
	county Engineer /				
Ву:	N/A	Clerk of Commissioners Court  By:			
	Drainage District Engineer/Manager	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

	nt of Way Permit nmercial Driveway Pe	ermit
Permit No	2018-23448	
The following "Notice of Proposed Cable, Cond attachments have been reviewed and the notic of Fort Bend County, Texas.		
(1) COMPLETE APPLICATION FORM:		
X a. Name of road, street, and/or	drainage ditch affect	ed.
x b. Vicinity map showing course	of directions	
X c. Plans and specifications		
(2) BOND:		
County Attorney, approval when applicable.	n 	
X Perpetual bond currently posted.	Bond No:	Amount: \$50,000.00
Performance bond submitted.	Bond No:	Amount:
Cashier's Check	Check No:	Amount:
(3) DRAINAGE DISTRICT APPROVAL (WHE	N APPLICABLE):	
Drainage District Approval	- /	Date
We have reviewed this project and agree it n	neets minimum requ	irements.
La Esta		11/2/2018
Permit Administrator		Date

# MCImetro ACCESS TRANSMISSION SERVICES CORPORATION

# OUTSIDE PLANT CONSTRUCTION FIBER OPTIC CABLE ROUTE

# ECC FIBER BUILD: 1706ANAY.014 MISSOURI CITY TO TRAMMELS MISSOURI CITY, TX

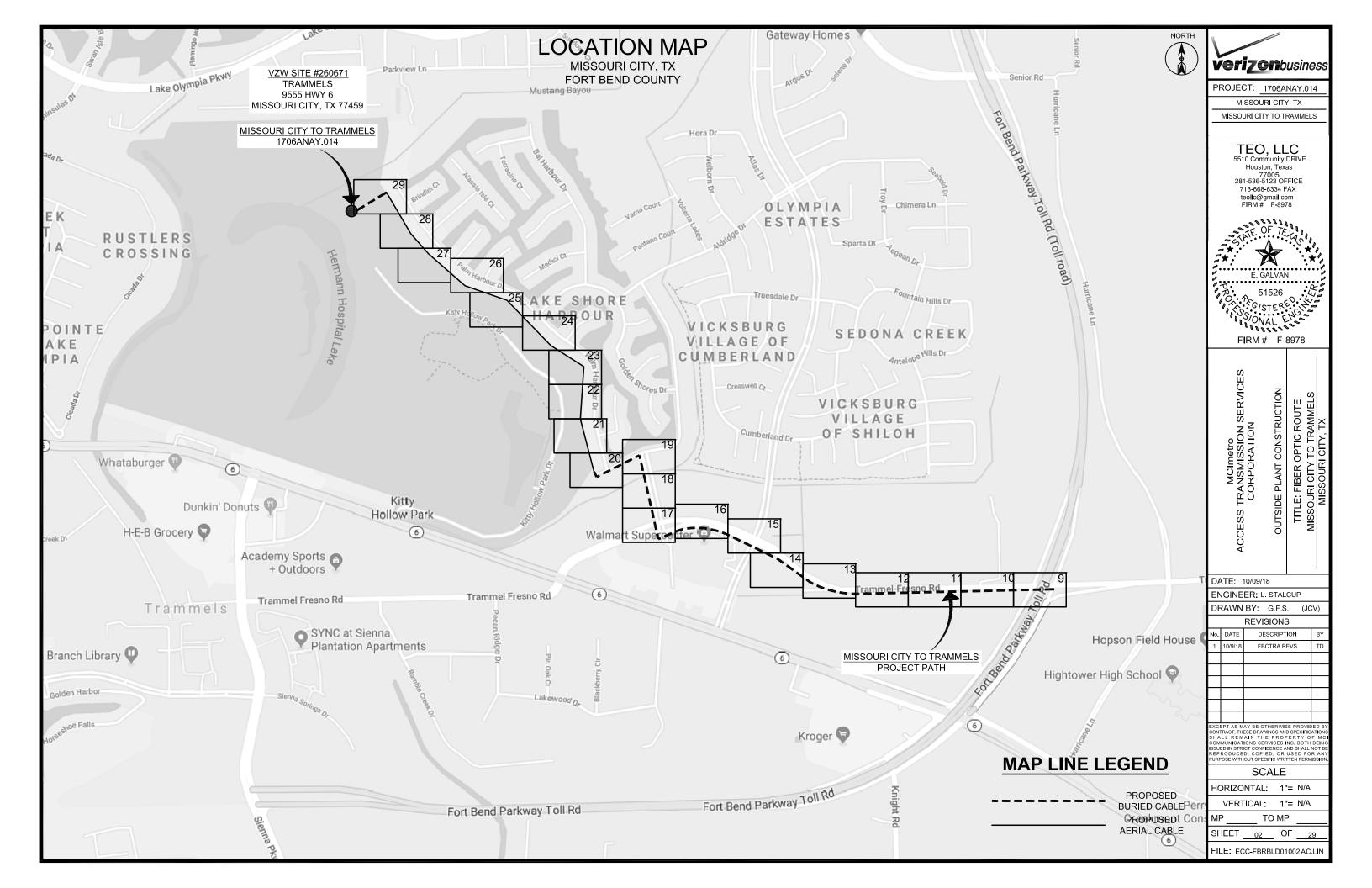
SITE CODE: HODATX

PROJECT STATUS: CONSTRUCTION

DATE: 10/09/18



TEO, LLC
5510 Community DRIVE
Houston, Texas
77005
281-536-5123 OFFICE
713-668-6334 FAX
teollc@gmail.com
FIRM # F-8978



# **CONTACT SHEET**

MCI

PROJECT ENGINEER:

PROJECT MANAGER:

PROJECT COORDINATOR:

**OUTSIDE PLANT CONSTRUCTION:** 

CONSTRUCTION CONTRACTOR: ERVIN CABLE CONSTRUCTION 1-844-322-2524 CONSTRUCTION MANAGER: AURELIO MALLAMANCE (270) 349-0337 PROJECT COORDINATOR: BARRY PHILLIPS (918) 688-4168

AGENT: MANAGER:

COORDINATOR: MANAGER:

PROGRAM MANAGER: LIGHTWAVE ENGINEER: CIVIL ENGINEER: TERMINAL CONST. REP.: SPLICING MANAGER: TSO MANAGER:

PRESIDENT:

#### **ENGINEERING CONTRACTOR**

GOLDEN FIELD SERVICES: 10830 EAST 45TH ST. STE. 405 TULSA, OK 74146

OFFICE: FAX:

(918) 610-0014 (918) 610-0016

OFFICE: (918) 610-0014 JERRY JEFFRIES, SR. (918) 638-3317

E-MAIL JLJEFFRIES@GOLDENFIELDSERVICES.COM

PROJECT MANAGER: LARRY STALCUP OFFICE: (918) 610-0014 (918) 633-2198 CELL: E-MAIL LSTALCUP@GOLDENFIELDSERVICES.COM

NAME OF FIRM: PROJECT COORDINATOR: PROJECT SUPERINTENDENT: **RAILROADS** 

UNION PACIFIC RAILROAD

DANIEL PETERS

(402) 544-8620

1-800-545-6005

UTILITIES

MCI UTILITY LOCATE 1-800-624-9675

TEXAS ONE CALL SYSTEM (UTILITY LOCATES)

NON MEMBERS:

**CITY GOVERNMENT** 

CITY OF HOUSTON
- SANITARY SEWER

- TRAFFIC - ROAD & BRIDGE - STORM QUALITY

MIKE NOWROOZI (832) 394-9123 SAM HABIBI (832) 394-9124 NAEEM HUSAIN (832) 394-9128 RICK KOVACICH (832) 394-9132 ZIA MOHAMMADI (832) 394-9134 ROBERTO GOMEZ (832) 394-9160 BILL CROUCH (832) 394-9161

#### **COUNTY GOVERNMENT**

HARRIS COUNTY

#### STATE GOVERNMENT

#### FEDERAL GOVERNMENT

N/A

**OTHER** N/A



PROJECT: 1706ANAY.014

MISSOURI CITY TX

MISSOURI CITY TO TRAMMELS

TEO, LLC 5510 Community DRIVE Houston, Texas

77005 281-536-5123 OFFICE 713-668-6334 FAX teollc@gmail.com FIRM# F-8978



F**I**RM # F-8978

MCImetro ACCESS TRANSMISSION SERVICES CORPORATION OUTSIDE PLANT CONSTRUCTION OPTIC ROUTE
Y TO TRAMMELS
RI CITY, TX TITLE: FIBER OF AISSOURI CITY TO MISSOURI C

DATE: 10/09/18

ENGINEER: L. STALCUP

DRAWN BY G.F.S. (JCV)

REVISIONS				
No.	DATE	DESCRIPTION	BY	
1	10/9/18	FBCTRA REVS	TD	

EXCEPT AS MAY BE OTHERWISE PROVIDED BY CONTRACT, THESE DRAWINGS AND SPECIFICATION SHALL REMAIN THE PROPERTY OF MC COMMUNICATIONS SERVICES INC. BOTH BEINN ISSUED IN STRICT CONFIDENCE AND SHALL NOT BI REPRODUCED. COPIED, OR USED FOR AN EVALUATION OF THE PROPERTY OF THE PR

SCALE HORIZONTAL: 1"= N/A VERTICAL: 1"= N/A TO MP

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# **GENERAL NOTES / CLARIFICATION NOTES**

#### **GENERAL NOTES**

- 1. VERIZON BUSINESS COMPRISES THE FOLLOWING OPERATING ENTITIES:
  - MCI COMMUNICATIONS SERVICES, INC.
  - MCI METRO COMMUNICATIONS SERVICES, INC.
  - MCI METRO ACCESS TRANSMISSION SERVICES OF VIRGINIA, INC.
  - MCI METRO ACCESS TRANSMISSION SERVICES OF MASSACHUSETTS, INC.
  - METROPOLITAN FIBER SYSTEMS OF NEW YORK, INC.
- ALL WORK TO BE PERFORMED IN STRICT ACCORDANCE WITH THE APPLICABLE CODES OR REQUIREMENTS OF ANY REGULATING GOVERNMENTAL AGENCY, VERIZON BUSINESS AND THE RIGHT-OF-WAY GRANTOR.
- LOCATIONS OF SOME OF THE PHYSICAL FEATURES WERE OBTAINED FROM DATED RAILROAD EVALUATION MAPS OR OTHER DRAWINGS AND MAY NOT BE AS SHOWN OR DEPICTED ON THESE DRAWINGS.
- 4. UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE RECORDS AND FIELD OBSERVATIONS BUT ARE NOT NECESSARILY EXACT. THEREFORE, UTILITY LOCATIONS WILL BE VERIFIED AT LEAST 100 FEET IN ADVANCE OF TRENCHING OR PLOWING, SO THAT CHANGES IN CABLE PLACEMENT CAN BE MADE IN THE EVENT OF CONFLICT.
- ALL KNOWN BURIED OBSTRUCTIONS ARE SHOWN ON THE CONSTRUCTION DRAWINGS. ANY AND ALL OTHERS ENCOUNTERED ARE ALSO THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE, PROTECT AND REPAIR IF DAMAGED.
- 6. ANY AND ALL IMPROVEMENTS, SUCH AS ASPHALT OR CONCRETE PAVEMENT, CURBS, GUTTERS, WALKS, DRAINAGE DITCHES, EMBANKMENTS, SHRUBS, TREES, GRASS SOD, ETC., IF DAMAGED, SHALL BE RESTORED TO ORIGINAL CONDITION.
- EQUIPMENT TYPES SPECIFIED HEREIN (IE: "BACKHOE", SWAMP PLOW" ETC.) ARE SUGGESTIONS ONLY AND ARE
  NOT INTENDED AS REQUIREMENTS. CONTRACTOR WILL BE NOTIFIED AS TO EXPECTATIONS.
- 8. SHORING OF BORE PITS AND TRENCHES IN ACCORDANCE WITH OSHA REGULATIONS IS MANDATORY.
- BURIED CABLE MARKERS WILL BE PLACED AT ALL UNDERGROUND UTILITY LOCATIONS AND ALL OTHER LOCATIONS IN ACCORDANCE WITH THE CONSTRUCTION DRAWINGS AND THE OUTSIDE PLANT HANDBOOK.
- 10. ALL 4" ID CONDUIT WILL BE SCHEDULE 40 (EG.: PVC OR GSP/BSP), OR AS SPECIFIED.
- UNDERGROUND CONDUIT WILL BE PLACED AT 48" MINIMUM COVER UNLESS OTHERWISE SPECIFIED ON THE CONSTRUCTION DRAWINGS.

#### **CLARIFICATION NOTES**

1.
2.
3.
4.
5.
6.
7.

- 1. STATION
- 2. LOCATION
- 3. CLARIFICATION NO. AND MINIMUM COVER
- 4. QUANTITY LINEAR FOOTAGE/SQUARE FOOTAGE, SIZE OF MANHOLE/HANDHOLE SIZE OF PULL/SPLICE BOX, DIMENSION OF WALL, HEIGHT/CLASS/TYPE OF POLE
- 5. TYPICAL DRAWING NO. AND TYPICAL DETAIL DRAWING NUMBER
- 6. PLANT ACCOUNTING CODE
- 7. SPECIFIED CONDUIT, HANDHOLE/MANHOLE NO., SPECIFIED PURPOSE AND MATERIAL, BRIDGE NO. AND RAILROAD STATION, MATERIAL, POLE NO.

#### ADDENDUM NOTES

#### **CLARIFICATION NOTES (CONTINUED)**

100	110	JACK AND DRY BORE CONDUIT(S)
000	040	DI ACE CONDUIT
200	210	PLACE CONDUIT
	212	PLACE HIGH DENSITY POLYETHYLENE (HDPE)
	213	ROCK ADDER
	214	SLURRY BACKFILL ADDER
	215	EXPOSE CONDUIT
	216	EXPOSE CONDUIT AND RELOCATE
	217	EXPOSE CONDUIT AND REPLACE/SUBSTITUTE
	218	EXPOSE AND REMOVE CONDUIT
	219	EXPOSE AND REMOVE CONDUIT (ABANDONED)
	220	CONCRETE ENCASE
	221	REMOVE CONCRETE ENCASEMENT
	222	REMOVE CONCRETE CAP
	240	PLACE HANDHOLE
	244	REMOVE EXISTING HANDHOLE
	245	RELOCATE HANHOLE
	246	REPLACE/SUBSTITUTE HANDHOLE
	247	EXCAVATE SPLICE PIT
	250	PLACE MANHOLE
	252	REMOVE EXISTING MANHOLE
	255	RELOCATE PRECAST MANHOLE
	256	REPLACE/SUBSTITUTE PRECAST MANHOLE
	180	CONSTRUCT WALL
	270	REMOVE AND RESTORE ASPHALT
	280	REMOVE AND RESTORE CONCRETE
	281	REMOVE AND RESTORE SIDEWALK
	282	REMOVE AND RESTORE CURBING
300	310	ATTACH CONDUIT TO WALL OR STRUCTURE
	315	DETACH CONDUIT FROM WALL OR STRUCTURE
	320	CORE BORE
	330	ATTACH PULL/SPLICE BOX TO WALL OR STRUCTURE
400	410	PULL CABLE
	411	PULL THROUGH DUCT (INNERDUCT)
	415	REMOVE CABLE FROM CONDUIT
	420	REPOSITION ACTIVE CABLE SLACK
500	510	DIRECT BURY CABLE
	515	EXPOSE DIRECT BURIED CABLE
	516	EXPOSE DIRECT BURIED CABLE AND RELOCATE
	517	REMOVE AND DISPOSE OF CABLE
	520	PLACE AERIAL CABLE
	525	RELOCATE AERIAL CABLE
	518	DELASH AERIAL CABLE
	527	RELASH AERIAL CABLE
	528	REMOVE AERIAL CABLE
	530	PLACE POLE/PUSH BRACE
	535	REMOVE POLE/PUSH BRACE
600	610	JETTING CONDUIT
	620	EMBEDMENT PLOW
	630	DIRECTIONAL BORE
700	740	DI ACE DUDIED CADI E MADIZEDO AND CIONO ANDOCA
700	710	PLACE BURIED CABLE MARKERS AND SIGNS/MWCOM
		WATER CROSSING SIGNS
	711	PLACE ISOLATOR/PROTECTION SYSTEM AT EXISTING
	713	HANDHOLES/MANHOLES
	712	REMOVE BURIED CABLE MARKER POST/HARDWARE
	714	REMOVE CONCRETE BURIED CABLE MARKER POST



PROJECT: 1706ANAY.014

MISSOURI CITY, TX

MISSOURI CITY TO TRAMMELS

TEO, LLC

5510 Community DRIVE Houston, Texas 77005 281-536-5123 OFFICE 713-668-6334 FAX

teollc@gmail.com FIRM # F-8978



F**I**RM# F-8978

ACCESS TRANSMISSION SERVICES
CORPORATION
OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC ROUTE
MISSOLIRI CITY TO TRAMMELS

DATE: 10/09/18

ENGINEER: L. STALCUP

DRAWN BY: G.F.S. (JCV)

REVISIONS

No.	DATE	DESCRIPTION	Β\
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#### MCI OUTSIDE PLANT FOCUS

#### FIBER OPTIC CABLE UNCOVERING SYSTEM

- THE TITLE OF THIS PROGRAM, F.O.C.U.S., AN ACRONYM FOR "FIBER OPTIC CABLE UNCOVERING SYSTEM," WAS SELECTED TO REMIND EVERYONE INVOLVED WITH WORKING NEAR MCI'S ACTIVE FIBER OPTIC SYSTEMS TO FOCUS ON PROTECTING THE FACILITIES. IF, DURING THE COURSE OF THE PROJECT, YOU NOTICE ANY ACTIVITY WHICH MAY JEOPARDIZE THE MCI OSP FACILITIES, IT IS YOUR DUTY TO STOP THE WORK AND RE-F.O.C.U.S.
- F.O.C.U.S. RULES MUST BE FOLLOWED ON ALL MCI PROJECTS INVOLVING WORK ON OR NEAR MCI OSP FACILITIES. SAFETY IS MCI'S NUMBER ONE PRIORITY; EVERYONE MUST REFRAIN FROM UNSAFE AND IMPROPER PRACTICES.
- 3. REVIEW OF F.O.C.U.S. IS MANDATORY AT EVERY PRE-BID, PRE-CONSRUCTION SITE MEETING AND DAILY TAILGATE MEETING. F.O.C.U.S. DISCUSSION MUST INCLUDE SITE-SPECIFIC HISTORY, UNIQUE PROBLEMS, FACILITY CONFIGURATIONS THAT MAY BE ENCOUNTERED, AND PAST ERRORS. "THOSE WHO DO NOT LEARN FROM HISTORY ARE DOOMED TO REPEAT IT." DO NOT LET THIS HAPPEN TO YOU.
- 4. ANY WORK NEAR OR REQUIRING HANDLING OF MCI OUTSIDE PLANT FACILITIES CAN ONLY BE PERFORMED WITH AN MCI EMPLOYEE OR CONTRACT REPRESENTATIVE PRESENT -- THIS MEANS OUT OF HIS OR HER VEHICLE AND DIRECTLY MONITORING THE WORK. THE REPRESENTATIVE MUST HAVE A PROPERLY OPERATING CABLE LOCATOR CHECKED FOR ACCURACY EVERY DAY PRIOR TO COMMENCEMENT OF WORK (COMPARISON OF LINE AND DEPTH READINGS TO ACTUAL LINE AND DEPTH OF THE CABLE).
- 5. LOCATE AND POTHOLE REQUIREMENTS:
  - PRIOR TO ANY EXCAVATION, THE MCI EMPLOYEE OR CONTRACT REPRESENTATIVE MUST VERIFY THE INITIAL LOCATE MARKS COMPLETED BY MCI OPERATIONS. DO NOT TRUST LOCATE RESULTS COMPLETED BY OTHERS THE MCI OR CONTRACT REPRESENTATIVE MUST LOCATE THE CABLE RUNNING LINE BY MAKING AT LEAST ONE PASS IN EACH DIRECTION. LOCATE RESULTS MUST THEN BE COMPARED WITH PREVIOUS MARKS AND THE AS-BUILTS.
  - IF THE PROPOSED WORK INVOLVES DIGGING OR EXCAVATING WITHIN 3 FEET OF THE CABLE, THE CABLE ROUTE WILL BE MARKED CONTINUALLY WITH ORANGE PAINT AND SUPPLEMENTED BY MARKER FLAGS PLACED EVERY 10 FT. THE EXCAVATION CONTRACTOR MUST POTHOLE (ALL POTHOLES MUST BE COMPLETED BY HAND DIGGING OR VACUUM EXCAVATION) A MINIMUM OF EVERY 15 FT., THEN EXPOSE THE ENTIRE LENGTH OF THE CABLE BY HAND DIGGING OR VACUUM EXCAVATION.
  - IF THE PROPOSED WORK INVOLVES DIGGING OR EXCAVATING WITHIN 5 FEET (BUT NOT CLOSER THAN 3 FEET) OF THE CABLE, THE CABLE ROUTE WILL BE MARKED CONTINUALLY WITH ORANGE PAINT AND SUPPLEMENTED BY MARKER FLAGS PLACED EVERY 10 FT. THE EXCAVATION CONTRACTOR MUST POTHOLE THE CABLE A MINIMUM OF EVERY 15 FT.
  - IF THE PROPOSED WORK INVOLVES DIGGING OR EXCAVATING WITHIN 5 FEET (BUT NOT CLOSER THAN 3 FEET) OF THE CABLE, THE CABLE ROUTE WILL BE MARKED CONTINUALLY WITH ORANGE PAINT AND SUPPLEMENTED BY MARKER FLAGS PLACED EVERY 10 FT. THE EXCAVATION CONTRACTOR MUST POTHOLE THE CABLE A MINIMUM OF EVERY 15 FT.
  - THE CABLE WILL ALSO BE POTHOLED AT ANY CHANGE IN THE RUNNING LINE OF MORE THAN 1 FT.
     IN ANY DIRECTION, ANYTIME THE ACCURACY OF THE ELECTRONIC LOCATE IS QUESTIONED, OR
     THE MARKED RUNNING LINE DOES NOT MATCH THE AS-BUILTS.
- 6. EXPOSING REQUIREMENTS:
  - NO MECHANICAL EXCAVATION WITHIN 3 FT. OF OSP FACILITIES WILL BE ALLOWED UNLESS THE FACILITIES HAVE FIRST BEEN PROPERLY LOCATED, POTHOLED, POSITIVELY IDENTIFIED, CONTINUOUSLY EXPOSED BY HAND DIGGING OR VACUUM EXCAVATION, AND THE FACILITES ARE CLEARLY VISIBLE.
  - IN ADDITION, MECHANICAL EXCAVATION WITHIN 3 FT. OF OSP FACILITIES REQUIRES ON-SITE PRIOR APPROVAL FROM MCI'S EMPLOYEE OR CONTRACT REPRESENTATIVE.
- PLEASE REFER TO THE LATEST EDITION OF THE MCI OSP HANDBOOK FOR ADDITIONAL DETAILS. KNOW IT AND FOLLOW IT.

#### MCI OUTSIDE PLANT CONSTRUCTION GENERAL REQUIREMENTS

- ALL FEDERAL, STATE AND LOCAL SAFETY REGULATIONS MUST BE FOLLOWED WITHOUT EXCEPTION.
- PERSONAL PROTECTIVE EQUIPMENT APPROPRIATE FOR THE SPECIFIC WORK SITE SHALL BE USED AT ALL TIMES. AT A MINIMUM, HARD HAT, SAFETY SHOES/STEEL-TOED BOOTS, AND FLORESCENT ORANGE OR GREEN WORK VEST ARE REQUIRED UPON ENTERING ANY MCI WORK SITE.
- USE OF INTOXICANTS, DRUGS, INHALANTS OR ANY OTHER SUBSTANCES THAT MAY IMPAIR ALERTNESS ARE STRICTLY PROHIBITED.
- \* CONTRACTORS ARE NOT ALLOWED TO CUT ANY CABLE. CABLES SCHEDULED FOR REMOVAL WILL BE CUT BY MCI OPERATIONS PERSONNEL, AND ONLY AFTER VERIFICATION THAT ALL TRAFFIC HAS BEEN OFF-LOADED.
- \* EXTREME CAUTION MUST BE USED AT ALL TIMES WHEN WORKING ON OR NEAR ACTIVE CABLES. AN MCI EMPLOYEE OR CONTRACT REPRESENTATIVE MUST APPROVE AND BE PRESENT PRIOR TO AND DURING ALL CABLE HANDLING ACTIVITIES.
- \* TOOLS AND EQUIPMENT SPECIFICALLY DESIGNED FOR THE JOB AT HAND ARE REQUIRED. USE THE PROPER TOOL FOR THE JOB.
- CONDUIT WORK INVOLVING ACTIVE CABLES REQUIRES SPECIALIZED TOOLS SPECIFICALLY DESIGNED TO ACCESS DUCTS WITH ACTIVE CABLES.
- PROTECTING MCI FACILITIES IS EXTREMELY IMPORTANT; HOWEVER, SAFETY REGARDING YOURSELF AND OTHERS IS THE MOST IMPORTANT PART OF ANY PROJECT.



PROJECT: 1706ANAY.014

MISSOURI CITY, TX

MISSOURI CITY TO TRAMMELS

TEO, LLC 5510 Community DRIVE Houston, Texas 77005 281-536-5123 OFFICE

713-668-6334 FAX



FIRM # F-8978

ACCESS TRANSMISSION SERVICES
CORPORATION
OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC ROUTE
MISSOURI CITY TO TRAMMELS
MISSOURI CITY TO TRAMMELS

DATE: 10/09/18

ENGINEER: L. STALCUP

DRAWN BY: G.F.S. (JCV)

REVISIONS

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No.	DATE	DESCRIPTION	BY		
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SCALE

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VERTICAL: 1"= N/A

MP TO MP

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FILE: ECC-FBRBLD01004BC.LIN

# **CLARIFICATION SUMMARY SHEET** PROJECT SPECIFIC

PROJECT CLARIFICATION SUMMARY			
DESCRIPTION	QUANTITY	UNIT	
PLACE (30"x60"x30") HANDHOLE	14	EA	
PLACE 1-2" HDPE (SDR 11) CONDUIT	7,075	LF	
PULL 1-144F CABLE (7,075' IN NEW CONDUIT, 860' IN EXISTING, 50' IN RISERS & 1230' IN COILS)	9,215	LF	
ATTACH (25') 2" U-GUARD RISER	2	EA	
(PLACE) DOWN GUY & ANCHOR	4	EA	
PLACE 1-6M AERIAL STRAND (INCLUDES ALL HARDWARE, LOOP EQUIPMENT, & 191' IN GUYS)	4,069	LF	
LASH 1-144F CABLE (500' CABLE IN SLACK LOOPS)	5,278	LF	
PLACE (BURIED CABLE) MARKER	14	EA	



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MCImetro ACCESS TRANSMISSION SERVICES CORPORATION OUTSIDE PLANT CONSTRUCTION

DATE: 10/09/18

ENGINEER: L. STALCUP

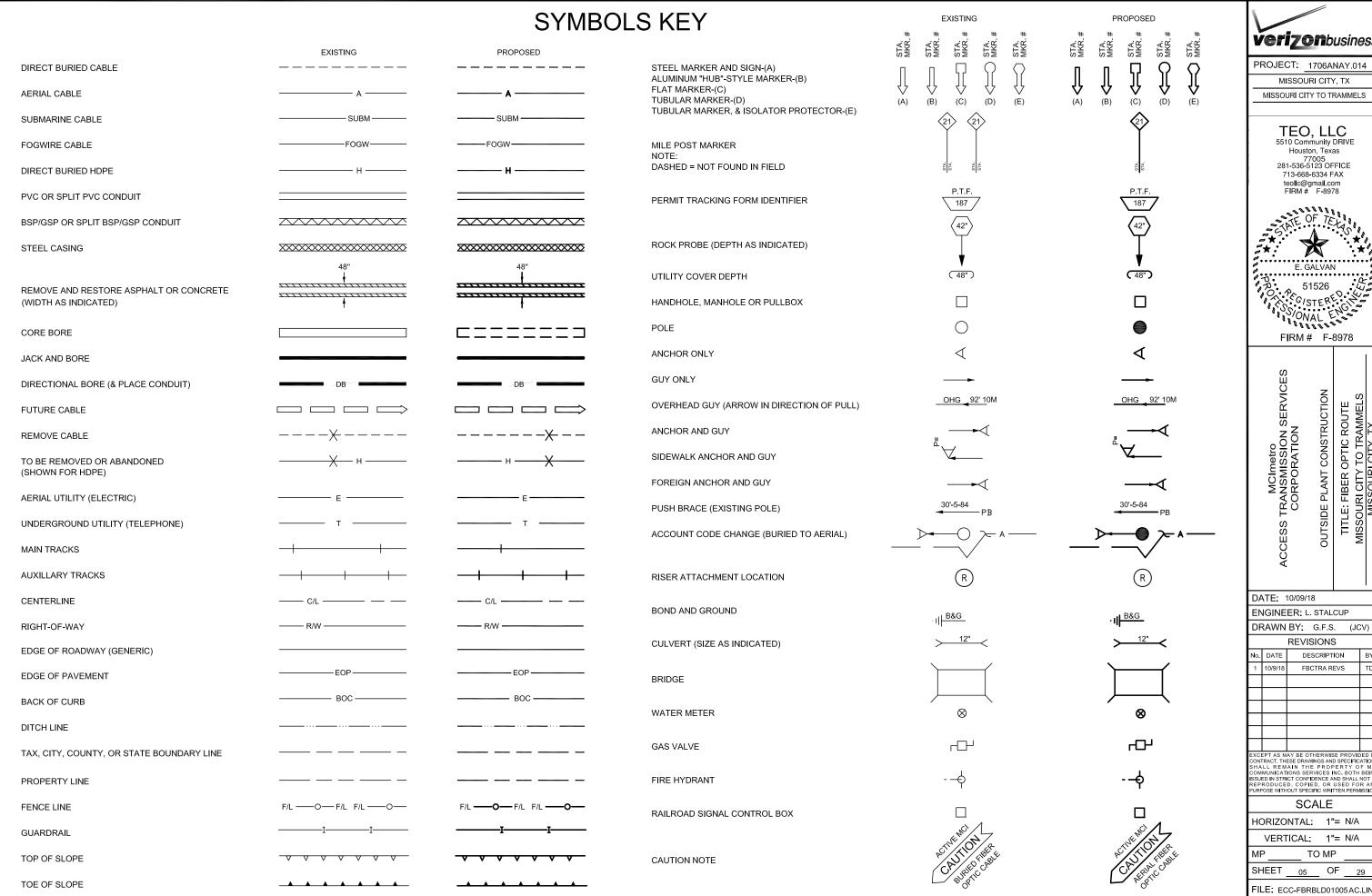
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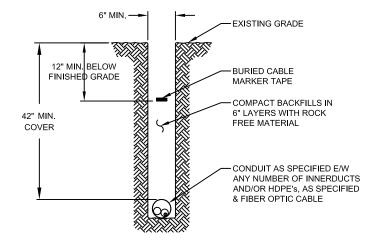
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# **CONSTRUCTION DETAILS**

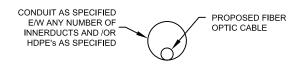
#### TYPICAL DETAIL"A"

#### TRENCH & PLACE CONDUIT



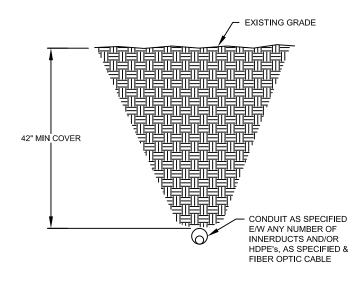
#### TYPICAL DETAIL "B"

#### CROSS SECTION OF PROPOSED HDPE



#### TYPICAL DETAIL "C"

# DIRECTIONAL BORE CROSS SECTION FOR CONDUIT





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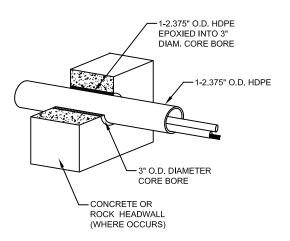
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#### TYPICAL DETAIL "D"

#### 3" CORE BORE



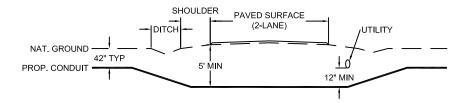
#### NOTE:

EPOXY GROUT IS USED AT BOTH ENDS OF CORE BORE TO SEAL GAP BETWEEN 2.375" CONDUIT AND PVC SLEEVE.

## TYPICAL CROSSING PROFILE DETAILS: UNDERGROUND

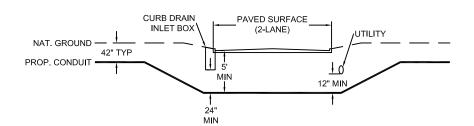
#### TYPICAL DETAIL "A"

TWO LANE - ASPHALT ROAD - NO CURB



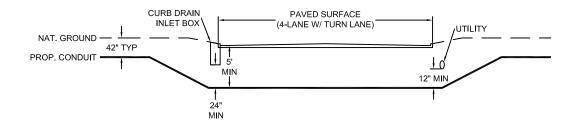
#### TYPICAL DETAIL "B"

TWO LANE - CURBED ROAD



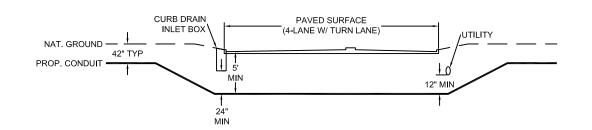
#### TYPICAL DETAIL "C"

FOUR LANE (W/ TURN LANE) - CURBED ROAD - NO MEDIAN



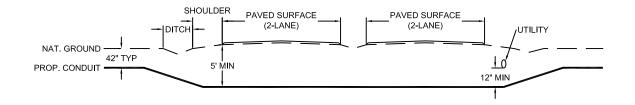
#### TYPICAL DETAIL "D

FOUR LANE (W/ TURN LANE) - CURBED ROAD - WITH MEDIAN



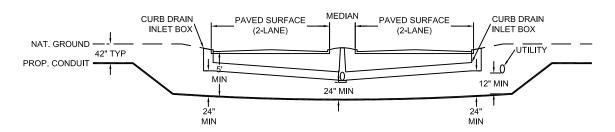
#### TYPICAL DETAIL "E"

4 LANE - SPLIT ASPHALT ROAD - NO CURB



#### TYPICAL DETAIL "F"

4 LANE - SPLIT CURBED ROAD





PROJECT: 1706ANAY.014

MISSOURI CITY, TX

MISSOURI CITY TO TRAMMELS

TEO, LLC

5510 Community DRIVE Houston, Texas 77005 281-536-5123 OFFICE 713-668-6334 FAX teollc@gmail.com FIRM# F-8978



FIRM # F-8978

MCImetro ACCESS TRANSMISSION SERVICES CORPORATION OUTSIDE PLANT CONSTRUCTION

DATE: 10/09/18

ENGINEER: L. STALCUP

DRAWN BY: G.F.S. (JCV)

**REVISIONS** lo. DATE DESCRIPTION FBCTRA REVS

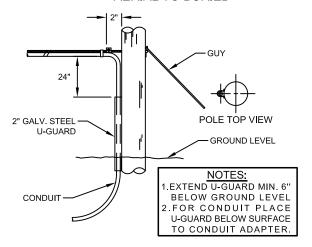
SCALE HORIZONTAL: 1"= N/A VERTICAL: 1"= N/A TO MP OF SHEET 6A

FILE: ECC-FBRBLD01006BC.LIN

## GENERAL AERIAL CONSTRUCTION DETAILS

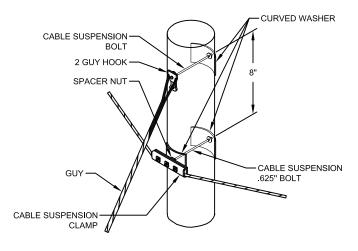
#### TYPICAL DETAIL "A"

#### POLE ARRANGEMENT FOR **AERIAL TO BURIED**



#### TYPICAL DETAIL "D"

#### SUSPENSION STRAND - PULL TOWARD POLE - LESS THAN 5 FEET



#### TYPICAL DETAIL "G"

JOINING 045 LASHING WIRE



#### FORMING WIRE OVER STUD OF CLAMP

REMOVE ANY SLACK IN THE LASHING WIRE BY MAINTAINING A PULL ON THE WIRE AND TAPPING THE STRAND SHARPLY. THEN FORM THE WIRE OVER THE STUD AND TIGHTEN THE NUT. CUT THE FREE END OF THE LASHING WIRE OFF 0.75" BEYOND THE END OF THE CLAMP.

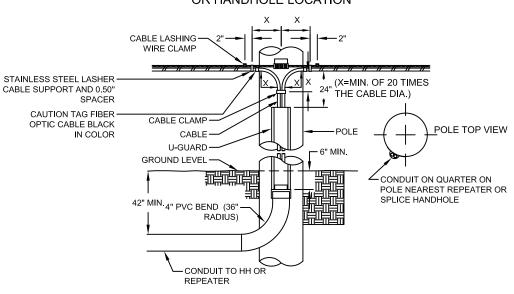


AROUND STRAND

FORM THE LASHING WIRE AROUND THE STRAND AND PLACE IT BELOW THE STUD AND BETWEEN THE SECOND WASHER AND STUD SHOULDER

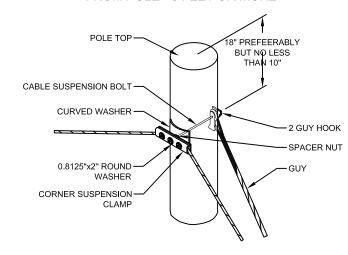
#### TYPICAL DETAIL "B"

#### POLE ARRANGEMENT FOR REPEATER OR HANDHOLE LOCATION



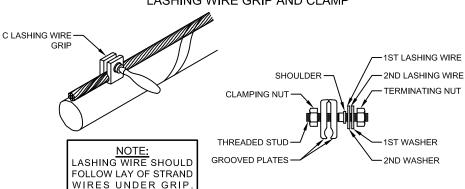
#### TYPICAL DETAIL "E"

#### SUSPENSION STRAND - PULL AWAY FROM POLE - 5 FEET OR MORE



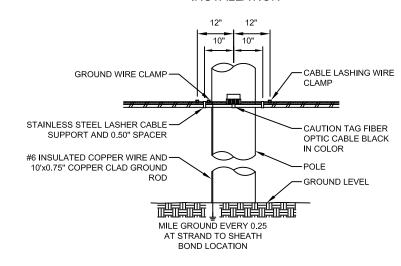
#### TYPICAL DETAIL "H"

#### LASHING WIRE GRIP AND CLAMP



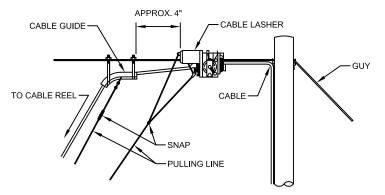
#### TYPICAL DETAIL "C"

#### TYPICAL CABLE & HARDWARE INSTALLATION



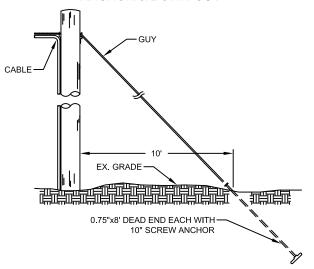
#### TYPICAL DETAIL "F"

#### TYPICAL ARRANGEMENT OF CABLE LASHER AND CABLE GUIDE



#### TYPICAL DETAIL "I"

#### **ANCHOR & DOWN GUY**





TEO, LLC 5510 Community DRIVE Houston, Texas 77005 281-536-5123 OFFICE 713-668-6334 FAX teolic@gmail.com FIRM# F-8978 GISTERE STATE OF THE STATE OF T

FIRM # F-8978

MCImetro TRANSMISSION SERVICES CORPORATION CONSTRUCTION OUTSIDE PLANT ACCESS

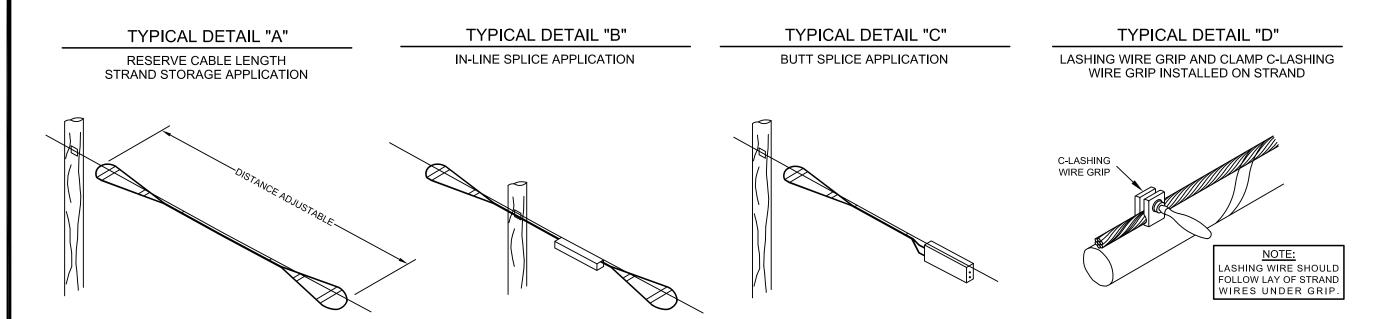
DATE: 10/09/18 ENGINEER L STALCUP DRAWN BY GFS (JCV) **REVISIONS** 

lo.	DATE	DESCRIPTION	BY
1	10/9/18	FBCTRA REVS	TD

XCEPT AS MAY BE OTHERWISE PROVIDED B CONTRACT. THESE DRAWINGS AND SPECIFICATION OF MAY AND A STATE OF MAY COMMUNICATIONS SERVICES INC. BOTH BEIN SUBED IN STRICT CONFIDENCE AND SHALL NOT BEPRODUCED, COPIED, OR USED FOR AN URPOSE WITHOUT SPECIFIC WRITTEN PERMISSION

SCALE						
HORIZO	NTAL:	1"=	N/A			
VERT	ICAL:	1"=	N/A			
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SHEET	6B	OF	29			
FILE: ECC-FBRBLD01006BC.LIN						

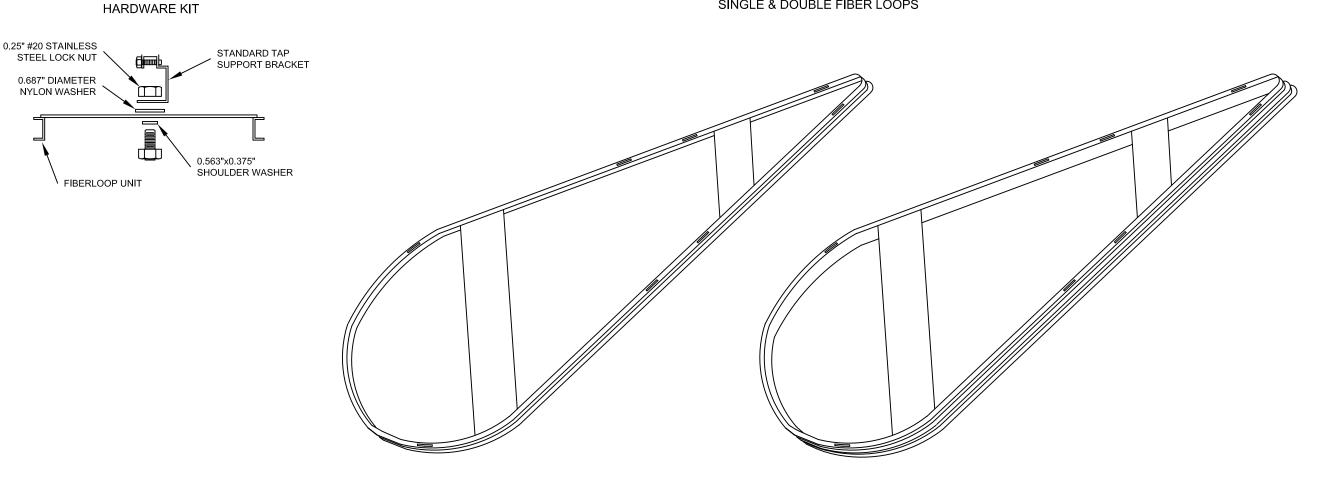
# **AERIAL IN-LINE SLACK STORAGE DETAILS**



TYPICAL DETAIL "E"



SINGLE & DOUBLE FIBER LOOPS





PROJECT: 1706ANAY.014

MISSOURI CITY, TX

MISSOURI CITY TO TRAMMELS

TEO, LLC 5510 Community DRIVE Houston, Texas 77005 281-536-5123 OFFICE 713-668-6334 FAX



FIRM# F-8978

MCImetro ACCESS TRANSMISSION SERVICES CORPORATION OUTSIDE PLANT CONSTRUCTION

DATE: 10/09/18

ENGINEER: L. STALCUP

DRAWN BY: G.F.S. (JCV)

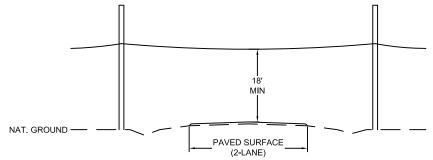
	REVISIONS					
No.	DATE	DESCRIPTION	BY			
1	10/9/18	FBCTRA REVS	TD			

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VERT	1"=	N/A	
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SHEET	6C	OF	29

FILE: ECC-FBRBLD01006CC.LIN

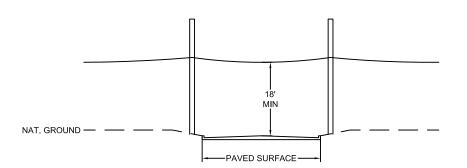
# TYPICAL CROSSING PROFILE DETAILS: AERIAL

# TYPICAL DETAIL "A" TWO LANE - ASPHALT ROAD - NO CURB



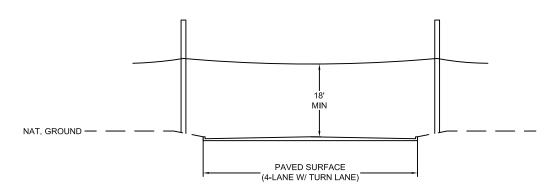
## TYPICAL DETAIL "B"

TWO LANE - CURBED ROAD



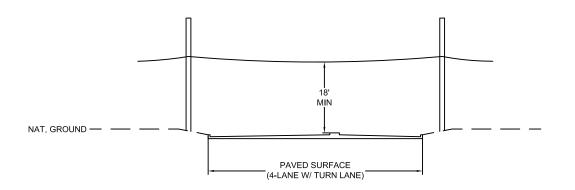
#### TYPICAL DETAIL "C"

FOUR LANE (W/ TURN LANE) - CURBED ROAD - NO MEDIAN



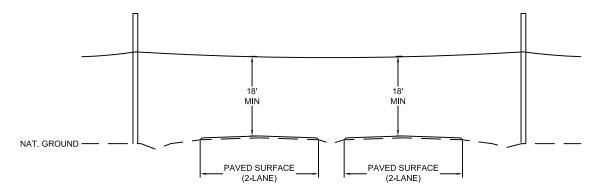
#### TYPICAL DETAIL "D

FOUR LANE (W/ TURN LANE) - CURBED ROAD - WITH MEDIAN



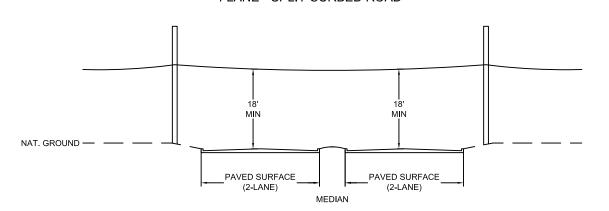
#### TYPICAL DETAIL "E"

4 LANE - SPLIT ASPHALT ROAD - NO CURB



#### TYPICAL DETAIL "F"

4 LANE - SPLIT CURBED ROAD





PROJECT: 1706ANAY.014

MISSOURI CITY, TX

MISSOURI CITY TO TRAMMELS

TEO, LLC 5510 Community DRIVE Houston, Texas 77005 281-536-5123 OFFICE 713-668-6334 FAX



FIRM# F-8978

MCImetro ACCESS TRANSMISSION SERVICES CORPORATION OUTSIDE PLANT CONSTRUCTION

DATE: 10/09/18

ENGINEER: L. STALCUP

DRAWN BY: G.F.S. (JCV)

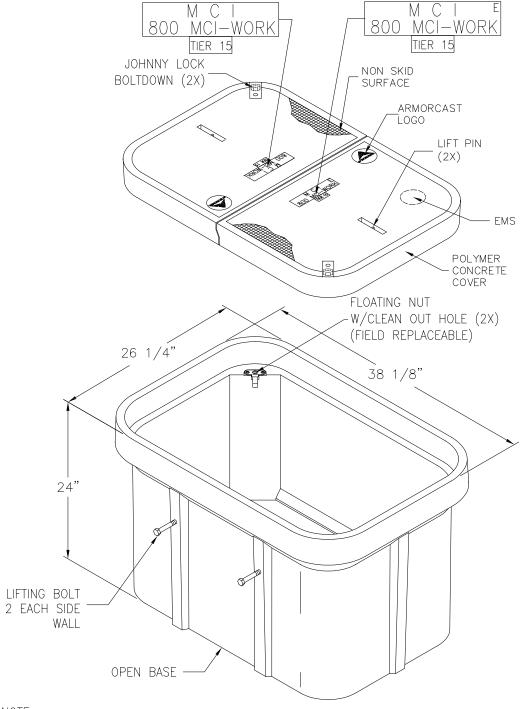
REVISIONS

No.	DATE	DESCRIPTION	BY
1	10/9/18	FBCTRA REVS	TD
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SHEET	6D	OF	29
	CC-FBRBL		

# 24" x 36" x 24" POLYMER CONCRETE BOX ASSEMBLY



NOTE:
BOX AND COVER ASSEMBLY MEET
ANSI/SCTE 77 TIER 15 LOADING

13230 Saticoy Street,
North Hollywood, CA 91605

(818) 982-3600

ARMORCIST® PRODUCTS COMPANY

THE INFORMATION IN THIS DRAWING IS CONFIDENTIAL. THE DRAWING IS NOT TO BE REPRODUCED OR ITS CONTENTS DIVULGED IN ANY WAY WHATSOEVER EXCEPT WITH THE PRIOR WRITTEN APPROVAL OF ARMORCAST PRODUCTS COMPANY. IT IS THE PROPERTY OF AND MUST BE RETURNED TO ARMORCAST PRODUCTS COMPANY, 13230 SATICOY

STREET, NORTH HOLLYWOOD, CALIFORNIA 91605."

PART DESCRIPTION

24" X 36" X 24" POLYMER CONCRETE BOX ASSEMBLY

CUSTOMER

VERIZON

OA 10/17 NONE

ITER 15

APROV.
WS 10/17 POLYMER CONCRETE

A6001974TAPMC14



PROJECT: 1706ANAY.014

MISSOURI CITY, TX

MISSOURI CITY TO TRAMMELS

TEO, LLC 5510 Community DRIVE Houston, Texas

77005 281-536-5123 OFFICE 713-668-6334 FAX teollo@gmail.com



FIRM# F-8978

ACCESS TRANSMISSION SERVICES
CORPORATION
OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC ROUTE

DATE: 10/09/18

DRAWN BY: G.F.S. (JCV)

EXCEPT AS MAY BE OTHERWISE PROVIDED B CONTRACT, THESE DRAWINGS AND SPECIFICATION SHALL REMAIN THE PROPERTY OF MA COMMUNICATIONS SERVICES INC. BOTH SERVICES WE SHALL NOT BE RESERVED SHALL NOT BE REMEDIATED SERVITHOUT SPECIFIC WRITTEN PERMISSION

 SCALE

 HORIZONTAL:
 1"= N/A

 VERTICAL:
 1"= N/A

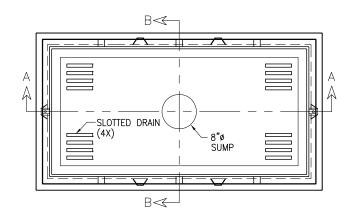
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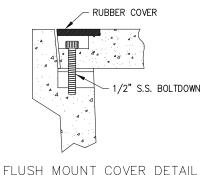
FILE: ECC-FBRBLD01007AC.LIN

# 30" x 60" x 30" 30K STANDARD HANDHOLE DETAILS

#### **DETAIL "A"** LOCKING DEVICE **CROSS SECTION**



#### **DETAIL "B" FLUSH MOUNT COVER DETAIL**



36 1/8"

33 3/8"

SECTION B-B

#### DETAIL "C" EXPLODED ISOMETRIC DETAIL

COVER

ARMORCAST

LOGO

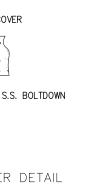
FLUSH MOUNT POLYMER CONCRETE-

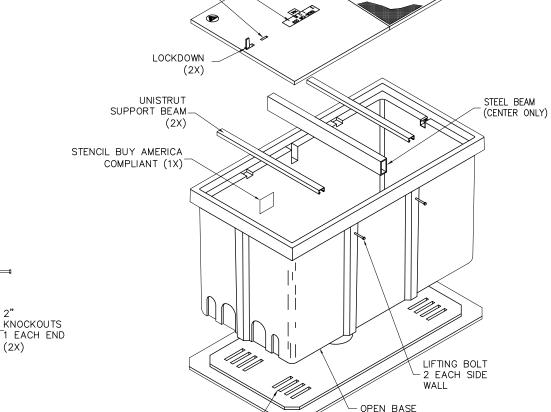
NON-SKID SURFACE

EMS MARKER (1X)

SEE DETAIL A

SEE DETAIL B





# 66 1/8" 63 3/8" \_ 1 3/4" 30" 18" 59" SECTION A-A



#### SEALED PLASTIC BAG PLACED INSIDE VAULT TO CONTAIN

ITEM QTY

JOHNNY LOCK KEY

3 1/2"

4 1/2"

(4X)

KNOCKOÚTS-

2 1/2"

KNOCKOÚTS

1 EACH END (2X)

2 EACH END

S.S. JOHNNY BOLTS W/FLAT WASHER.

SHRINK WRAP COVERS TO FRAME FOR PACKAGING.

### **30K STANDARD HANDHOLE**

DRAIN (4X)-

30"x60"x30" POLYMER CONCRETE FLUSH MOUNT ASSEMBLY MEETS SCTE/ANSI 77-TIER 22 LOADING CRITERIA ADDITIONAL REQUIREMENTS: **DESIGNED LOAD: 30,000 LBS** MINIMUM FAILURE LOAD: 45,000 LBS

POLYMER CONCRETE



PROJECT: 1706ANAY.014

MISSOURI CITY, TX

MISSOURI CITY TO TRAMMELS

TEO, LLC

5510 Community DRIVE Houston, Texas 77005 281-536-5123 OFFICE 713-668-6334 FAX teolic@gmail.com FIRM# F-8978



FIRM # F-8978

MCImetro ACCESS TRANSMISSION SERVICES CORPORATION OUTSIDE PLANT CONSTRUCTION TIC ROUTE OPTIC

DATE: 10/09/18

ENGINEER: L. STALCUP

DRAWN BY: G.F.S. (JCV)

REVISIONS									
No.	No. DATE DESCRIPTION BY								
1	10/9/18	FBCTRA REVS	TD						

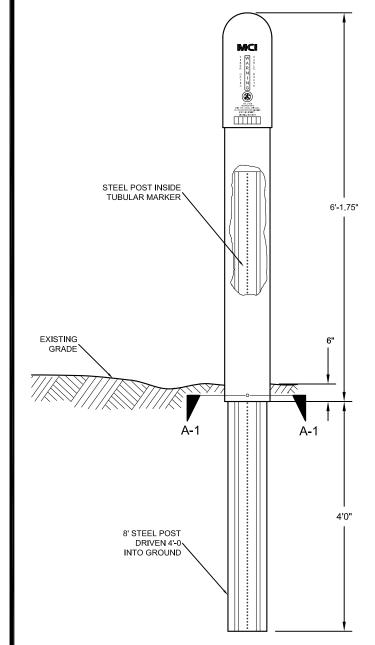
NTRACT, THESE DRAWINGS AND SPECIFICATION AND SPECIFICATION AND SPECIFICATION OF THE PROPERTY OF MEMORIA TO THE SERVICES INC. BOTH BE SUED IN STRICT CONFIDENCE AND SHALL NOT PRODUCED, COPIED, OR USED FOR A POSE WITHOUT SPECIFIC WRITTEN PERMISSION

SCALE HORIZONTAL: 1"= N/A VERTICAL: 1"= N/A TO MP SHEET <u>07A</u> OF FILE: ECC-FBRBLD01007 AC.LIN

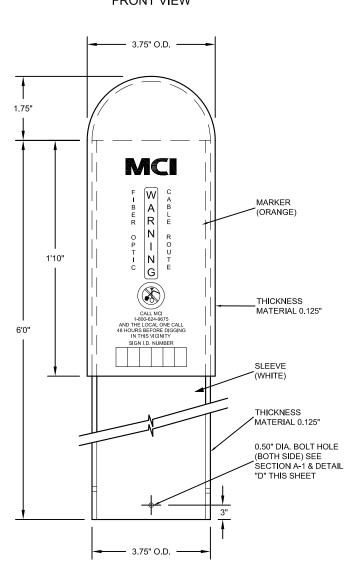
# **TUBULAR MARKER DETAILS**

DETAIL "A"

INSTALLATION VIEW

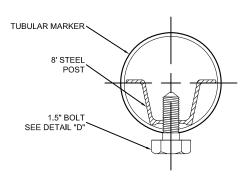


DETAIL "B"
FRONT VIEW



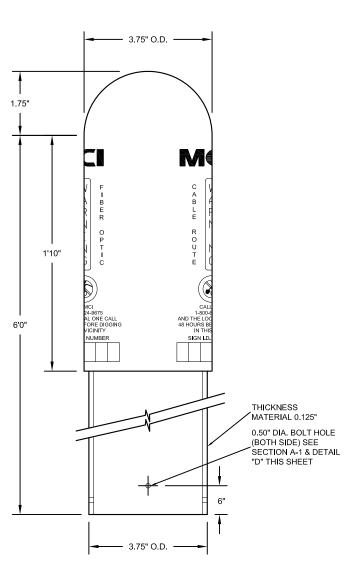
#### SECTION A-1

TUBULAR MARKER



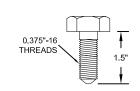
DETAIL "C"

SIDE VIEW



DETAIL "D"

1.5" BOLT





PROJECT: 1706ANAY.014

MISSOURI CITY, TX

MISSOURI CITY, TX

MISSOURI CITY TO TRAMMELS

\_\_\_\_

TEO, LLC 5510 Community DRIVE Houston, Texas 77005 281-536-5123 OFFICE 713-668-6334 FAX



FIRM # F-8978

ACCESS TRANSMISSION SERVICES
CORPORATION
OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC ROUTE

DATE: 10/09/18

ENGINEER: L. STALCUP

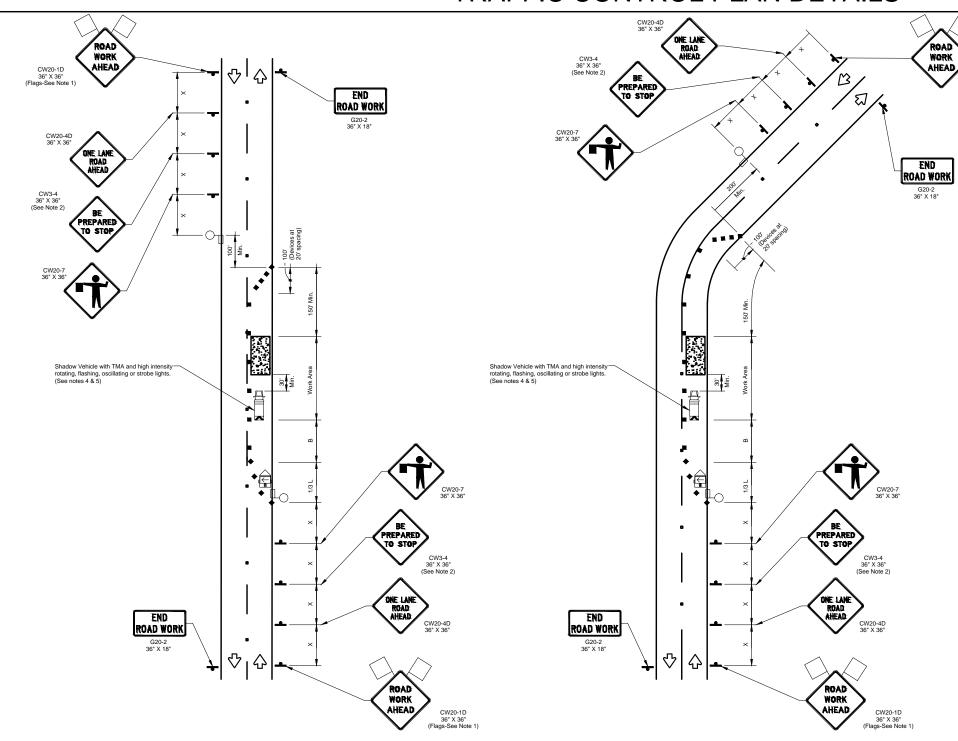
DRAWN BY: G.F.S. (JCV)

	REVISIONS						
Vo.	DATE	DESCRIPTION	BY				
1	10/9/18	FBCTRA REVS	TD				

EXCEPT AS MAY BE OTHERWISE PROVIDED BY CONTRACT, THESE DRAWINGS AND SPECIFICATION SHALL REMAIN THE PROPERTY OF MC COMMUNICATIONS SERVICES INC. BOTH BEINN SUBON IN STRICT COMPIDENCE AND SHALL NOT BIREPRODUCED. COPIED, OR USED FOR AN USED FOR AN USED FOR MITTEN PERMISSION WITTEN PERMISSION

SCALE						
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MP	то	MP				
SHEET	8	OF	29			
FILE: EC	CC-FBRBL	.D0100	8AC.LIN			

# TRAFFIC CONTROL PLAN DETAILS



ONE-LANE TWO-WAY SINGLE LANE CLOSURE **CONTROL WITH FLAGGERS** (ON CURVED SECTION OF ROADWAY)

NO.	REVISIONS	DATE	NAME
1	UPDATED DEPARTMENT NAME & GENERAL NOTES	4/16/15	BSH
$\triangle$			
$\overline{\Lambda}$			

ONE-LANE TWO-WAY SINGLE LANE CLOSURE

**CONTROL WITH FLAGGERS** 

(ON STRAIGHT SECTION OF ROADWAY)

FORT BEND COUNTY ENGINEERING DEPARTMENT



TEO, LLC 77005 281-536-5123 OFFICE 713-668-6334 FAX



#### TRAFFIC CONTROL PLAN SECTION SHALL BE COMPLETED BY ENGINEER

ROADWAY	POSTED SPEED	TAPER LENGTH	CHANN DEV	CING ELIZING ICES	SIGN SPACING	BUFFER SPACE
			TAPER	TANGENT		
X30X	30 MPH	180'	30'	60'	120'	90'
X35X	35 MPH	245'	35'	70'	160'	120'
X40X	40 MPH	320'	40'	80'	240'	155'
X45X	45 MPH	540'	45'	90'	320'	195'
X50X	50 MPH	600'	50'	100'	400'	240'
X55X	55 MPH	660'	55'	110'	500'	295'

LEGEND							
	Type 3 Barricade	8 8	Channelizing Devices				
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)				
	Trailer Mounted Flashing Arrow Board	M	Portable Changeable Message Sign (PCMS)				
-	Sign	\frac{1}{2}	Traffic Flow				
$\triangle$	Flag	10	Flagger				

Posted Speed	Formula	Ö	Minimum esirable Lengths "I	L"	Suggested I Spacir Channe Devi	ng of elizing	Minimum Sign Spacing "X"	Suggested Longitudinal Buffer Space
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent	Distance	"B"
30	ws <sup>2</sup>	150'	165'	180'	30'	60'	120'	90'
35	L= WS	205'	225'	245'	35'	70'	160'	120'
40	60	265'	295'	320'	40'	80'	240'	155'
45		450'	495'	540'	45'	90'	320'	195'
50		500'	550'	600'	50'	100'	400'	240'
55	I=WS	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'

\*\* Taper lengths have been rounded off.

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

#### GENERAL NOTES

- Flags attached to signs where shown are OPTIONAL.
   All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol are OPTIONAL.
- Inactive work vehicles or other equipment should be parked near the right-of-way line and not parked on the pawed shoulder.
   A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the
- 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 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.

  5. Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown in order to protect wider work spaces.

  6. Contractor 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.

  7. No lanes shall be blocked from 7 am to Sam and 4pm to 5:30pm Monday thru Friday.

  8. Off duty police officers/flaggers are required to direct traffic when applicable.

  9. If project is within 400 feet from a signalized intersection, the Contractor shall contact FORT BEND COUNTY Engineering Department, Traffic Signal Maintenance at (713) 881-3210 five (5) days prior to the start of construction.

1706ANAY.014 MISSOURI CITY TO TRAMMELS

39

SHEET NO: 8A **/**[XX

ERVIN CABLE CONSTRUCTION

verizonbusiness
DRO IECT: 4706ANAY 044

PROJECT:	1706ANAY.014		
MISSO	URI CITY, TX		
MISSOURI C	ITY TO TRAMMELS		

MCImetro CCESS TRANSMISSION SERVICES CORPORATION	OUTSIDE PLANT CONSTRUCTION	TITLE: FIBER OPTIC ROUTE	MISSOURI CITY TO TRAMMELS

DATE: 9/7/18

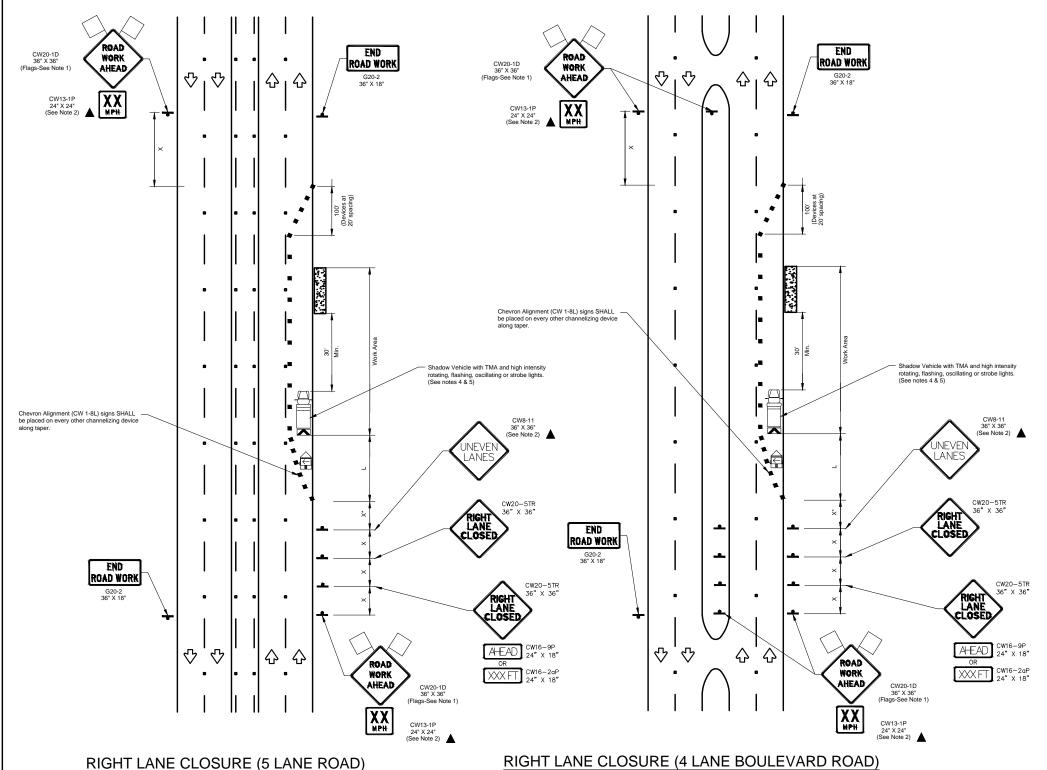
ENGINEER: L. STALCUP DRAWN BY: G.F.S. (JCV)

> **REVISIONS** DESCRIPTION

SCALE								
HORIZONTAI	L: 1"=	N/A						
VERTICAL	.: 1"=	N/A						
MP	TO MP							
SHEET 8A	OF	29						

FILE: ECC-FBRBLD01008BC.LIN

# TRAFFIC CONTROL PLAN DETAILS



#### TRAFFIC CONTROL PLAN SECTION SHALL BE COMPLETED BY ENGINEER

,						
ROADWAY	POSTED SPEED	TAPER LENGTH	SPACING CHANNELIZING DEVICES		SIGN SPACING	BUFFER SPACE
			TAPER	TANGENT		
X30X	30 MPH	180'	30'	60'	120'	90'
X35X	35 MPH	245'	35'	70'	160'	120'
X40X	40 MPH	320'	40'	80'	240'	155'
X45X	45 MPH	540'	45'	90'	320'	195'
X50X	50 MPH	600'	50'	100'	400'	240'
X55X	55 MPH	660'	55'	110'	500'	295'

	LEGEND						
	Type 3 Barricade	8 8	Channelizing Devices				
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)				
	Trailer Mounted Flashing Arrow Board	M	Portable Changeable Message Sign (PCMS)				
•	Sign	\ <del>\</del>	Traffic Flow				
$\overline{\triangle}$	Flag	Lo	Flagger				

Posted Speed	Formula	Ö	Minimum Desirable Lengths "I	L"	Suggested N Spacin Channe Devi	ig of elizing	Minimum Sign Spacing "X"	Suggested Longitudinal Buffer Space "B"
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent	Distance	
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35	L= WS 60	205'	225'	245'	35'	70'	160'	120'
40	60	265'	295'	320'	40'	80'	240'	155'
45		450'	495'	540'	45'	90'	320'	195'
50		500'	550'	600'	50'	100'	400'	240'
55	I=WS	550'	605'	660'	55'	110'	500'	295'
60	1	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)

#### **GENERAL NOTES**

- Flags attached to signs where shown are OPTIONAL.

  All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol are
- 2. All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol are OPTIONAL.
  3. Inactive work vehicles or other equipment should be parked near the right-of-way line and not parked on the paved shoulder.
  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 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.
  5. Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown in order to protect wider work spaces.
  6. Additional Shadow Vehicles with TMAs may be incompared to protect or the tother work of the part VI of Texas Manual on Uniform Traffic Control Devices (TMUTCD Latest edition with revisions) during construction.
  7. No lanes shall be blocked from 7am to 9am and 4pm to 6:30pm Monday thru Friday.
  8. Off duty police officers/flaggers are required to direct traffic when applicable.

- Off duty police officers/flaggers are required to direct traffic when applicable.
   If project is within 400 feet from a signalized intersection, the Contractor shall contact FORT BEND COUNTY Engineering Department, Traffic Signal Maintenance at (713) 881-3210 five (5) days prior to the start of construction.

verizonbusiness	

PROJECT: 1706ANAY.014 MISSOURI CITY, TX MISSOURI CITY TO TRAMMELS

> MCImetro TRANSMISSION SERVICES CORPORATION E FIBER OPTIC ROUTE URI CITY TO TRAMMELS HISSOURI CITY, TX OUTSIDE PLANT CONSTRUCTION

DATE: 9/7/18

ACCESS

ENGINEER: L. STALCUP

DRAWN BY: G.F.S.

**REVISIONS** 

No.	DATE	DESCRIPTION	В

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SCALE HORIZONTAL: 1"= N/A VERTICAL: 1"= N/A TO MP

FILE: ECC-FBRBLD01008CC.LIN

OF

SHEET 8B

PROJECT TITL	<sup>E:</sup> 1706ANAY.014 MISSOURI CITY TO TR	AMMELS
DRAWN BY: GFS	ERVIN CABLE CONSTRUCTION	HCED STANDARD
CK'D BY: GFS	SHEET DESCRIPTION: TRAFFIC CONTROL PLAN (RIGHT LANE CLOSURE)	41
SCALE: N.T.S.		SHEET NO:
DATE:	APPROVED BY:	8B <b>/</b> [XX]

REVISIONS DATE NAME JPDATED DEPARTMENT NAME & GENERAL NOTES 4/16/15 BSH

FORT BEND COUNTY ENGINEERING DEPARTMENT



TEO, LLC 5510 Community DRIVE Houston, Texas 77005 281-536-5123 OFFICE 713-668-6334 FAX teollc@gmail.com FIRM # F-8978

# 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. 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 Contractor-developed 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 Authorityi 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-of-way, 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.



PROJECT: 1706ANAY.014

MISSOURI CITY, TX

MISSOURI CITY TO TRAMMELS

TEO, LLC 5510 Community DRIVE Houston, Texas

77005 281-536-5123 OFFICE 713-668-6334 FAX teollc@gmail.com FIRM # F-8978



FIRM # F-8978

MCImetro
ACCESS TRANSMISSION SERVICES
CORPORATION
OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC ROUTE
MISSOURI CITY TO TRAMMELS
MISSOURI CITY, TX

DATE: 10/09/18

ENGINEER: L. STALCUP

DRAWN BY: G.F.S. (JCV)

DEVISION

REVISIONS				
	No.	DATE	DESCRIPTION	BY
	1	10/9/18	FBCTRA REVS	TD

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 SCALE

 HORIZONTAL:
 1"= N/A

 VERTICAL:
 1"= N/A

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 SHEET 8A OF 29

FILE: ECC-FBRBLD01008AC.LIN

#### PERMIT REQUIREMENTS (May 2018) FORT BEND GRAND PARKWAY TOLL ROAD AUTHORITY AND FORT BEND COUNTY TOLL ROAD AUTHORITY

(collectively known as FBTRA)

- Grantee shall obtain overall environmental clearance with all appropriate regulatory gencies 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 http://www.dot.state.tx.us/business/standardplanfiles.htm Houston District http://www.dot.state.tx.us/hou/specinfo/specs.htm 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 s hall begin until this approval has been granted.



PROJECT: 1706ANAY.014

MISSOURI CITY, TX

MISSOURI CITY TO TRAMMELS

#### TEO, LLC

5510 Community DRIVE Houston, Texas 77005 281-536-5123 OFFICE 713-668-6334 FAX



MCImetro ACCESS TRANSMISSION SERVICES CORPORATION OUTSIDE PLANT CONSTRUCTION

DATE: 10/09/18

ENGINEER: L. STALCUP

DRAWN BY G.F.S. (JCV)

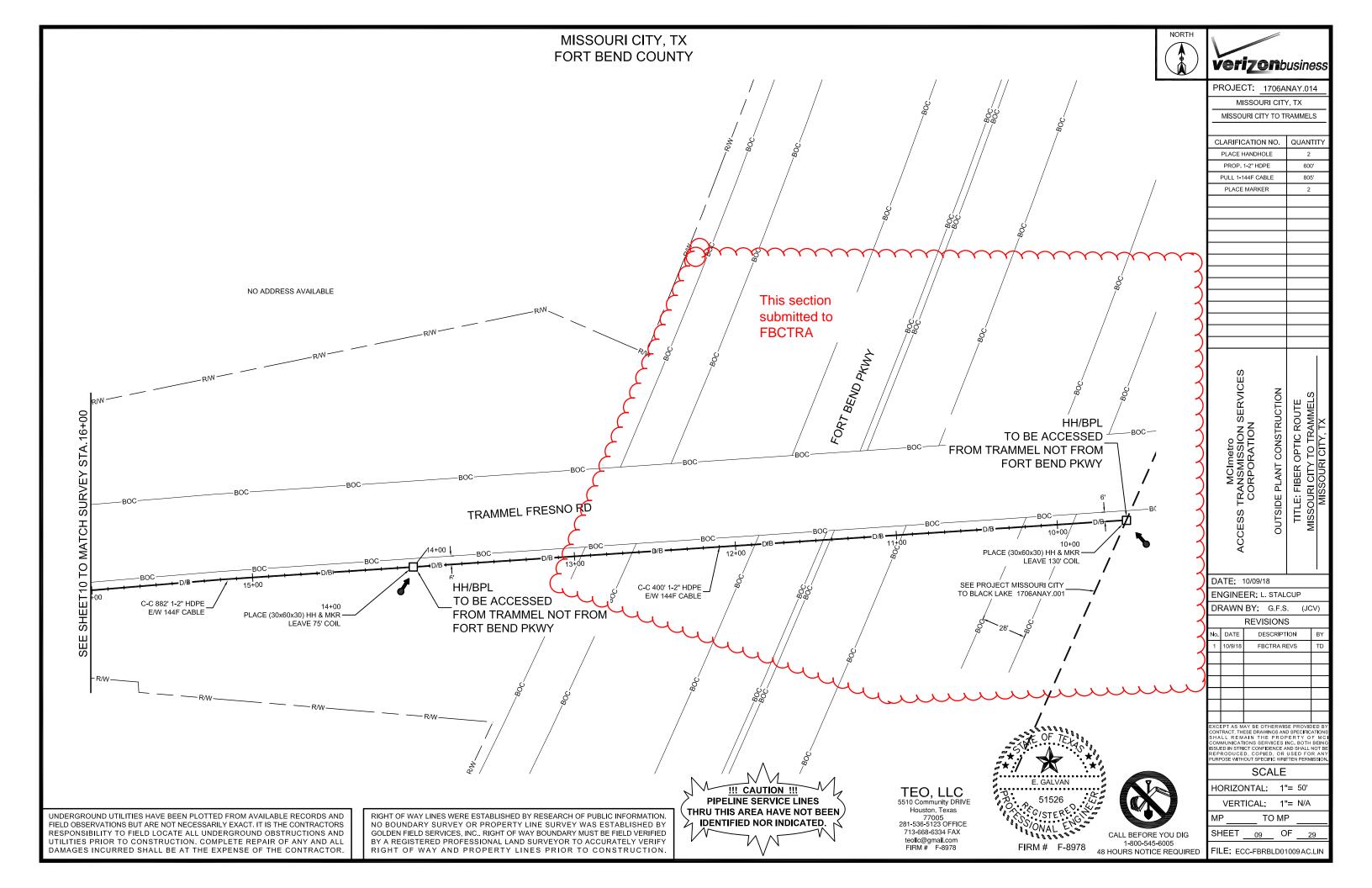
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PROJECT: 1706ANAY.014

MISSOURI CITY, TX

MISSOURI CITY TO TRAMMELS

ACCESS TRANSMISSION SERVICES
CORPORATION
CORPORATION
CORPORATION
CORPORATION
OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC ROUTE
MISSOURI CITY TO TRAMMELS
MISSOURI CITY TX
MISS

DATE: 10/09/18

ENGINEER: L. STALCUP

DRAWN BY: G.F.S. (JCV)

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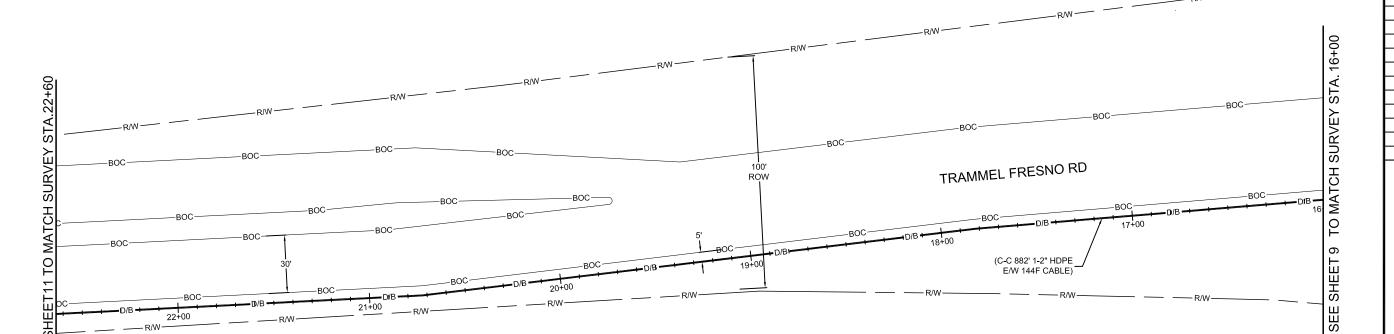
SHEET 10 OF 2

CALL BEFORE YOU DIG

1-800-545-6005

48 HOURS NOTICE REQUIRED

FILE: ECC-FBRBLD01010AC.LIN



NO ADDRESS AVAILABLE

!!! CAUTION !!!
PIPELINE SERVICE LINES
THRU THIS AREA HAVE NOT BEEN
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UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE RECORDS AND FIELD OBSERVATIONS BUT ARE NOT NECESSARILY EXACT. IT IS THE CONTRACTORS RESPONSIBILITY TO FIELD LOCATE ALL UNDERGROUND OBSTRUCTIONS AND UTILITIES PRIOR TO CONSTRUCTION. COMPLETE REPAIR OF ANY AND ALL DAMAGES INCURRED SHALL BE AT THE EXPENSE OF THE CONTRACTOR.

RIGHT OF WAY LINES WERE ESTABLISHED BY RESEARCH OF PUBLIC INFORMATION. NO BOUNDARY SURVEY OR PROPERTY LINE SURVEY WAS ESTABLISHED BY GOLDEN FIELD SERVICES, INC.. RIGHT OF WAY BOUNDARY MUST BE FIELD VERIFIED BY A REGISTERED PROFESSIONAL LAND SURVEYOR TO ACCURATELY VERIFY RIGHT OF WAY AND PROPERTY LINES PRIOR TO CONSTRUCTION.





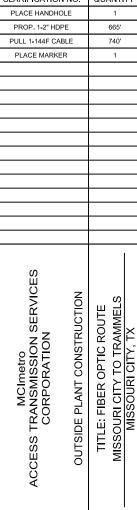
PROJECT: 1706ANAY.014

MISSOURI CITY, TX

MISSOURI CITY TO TRAMMELS

CLARIFICATION NO. QUANTITY

PLACE HANDHOLE 1



DATE: 10/09/18

ENGINEER: L. STALCUP

DRAWN BY: G.F.S. (JCV)

REVISIONS
DATE DESCRIPTION

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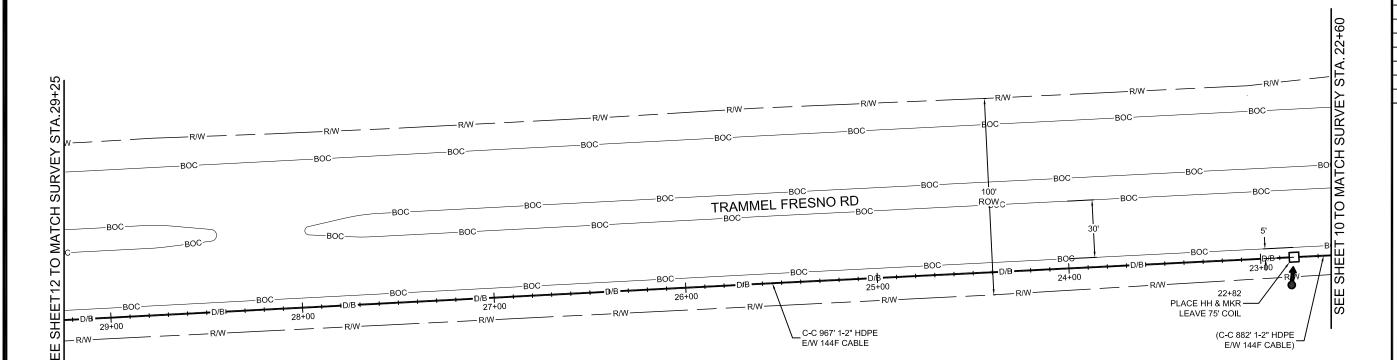
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1-800-545-6005 48 HOURS NOTICE REQUIRED FILE: ECC-FBRBLD01011AC.LIN

CALL BEFORE YOU DIG



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32+00

-PLACE HH & MKR

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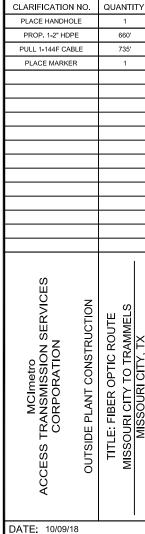
(C-C 967' 1-2" HDPE

E/W 144F CABLE)





PROJECT: 1706ANAY.014 MISSOURI CITY, TX MISSOURI CITY TO TRAMMELS



ENGINEER: L. STALCUP DRAWN BY: G.F.S. (JCV)

REVISIONS

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!!! CAUTION !!! PIPELINE SERVICE LINES THRU THIS AREA HAVE NOT BEEN IDENTIFIED NOR INDICATED.

30+00

UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE RECORDS AND FIELD OBSERVATIONS BUT ARE NOT NECESSARILY EXACT. IT IS THE CONTRACTORS RESPONSIBILITY TO FIELD LOCATE ALL UNDERGROUND OBSTRUCTIONS AND UTILITIES PRIOR TO CONSTRUCTION. COMPLETE REPAIR OF ANY AND ALL DAMAGES INCURRED SHALL BE AT THE EXPENSE OF THE CONTRACTOR.

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RIGHT OF WAY LINES WERE ESTABLISHED BY RESEARCH OF PUBLIC INFORMATION. NO BOUNDARY SURVEY OR PROPERTY LINE SURVEY WAS ESTABLISHED BY GOLDEN FIELD SERVICES, INC.. RIGHT OF WAY BOUNDARY MUST BE FIELD VERIFIED BY A REGISTERED PROFESSIONAL LAND SURVEYOR TO ACCURATELY VERIFY RIGHT OF WAY AND PROPERTY LINES PRIOR TO CONSTRUCTION

TRAMMEL FRESNO RD

34+00

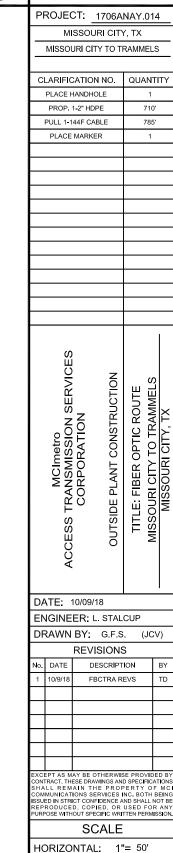
\_C-C 965' 1-2" HDPE E/W 144F CABLE

33+00

NO ADDRESS AVAILABLE







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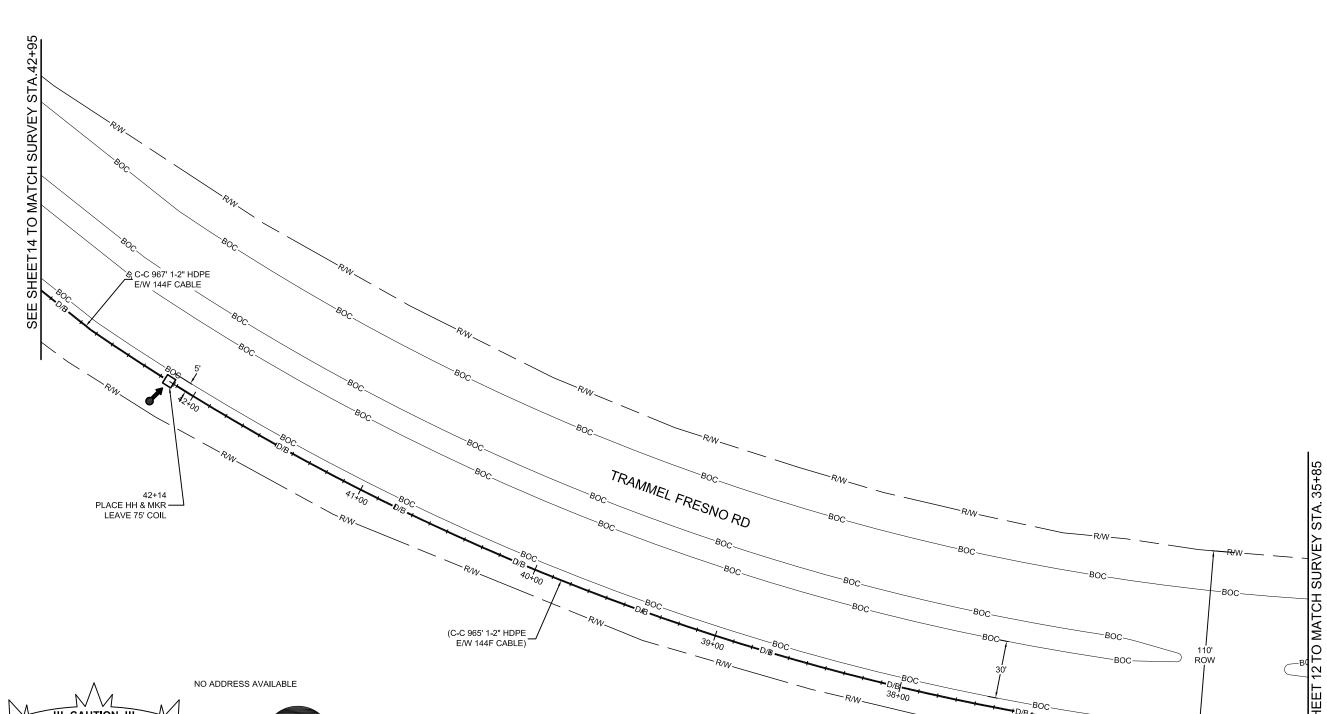
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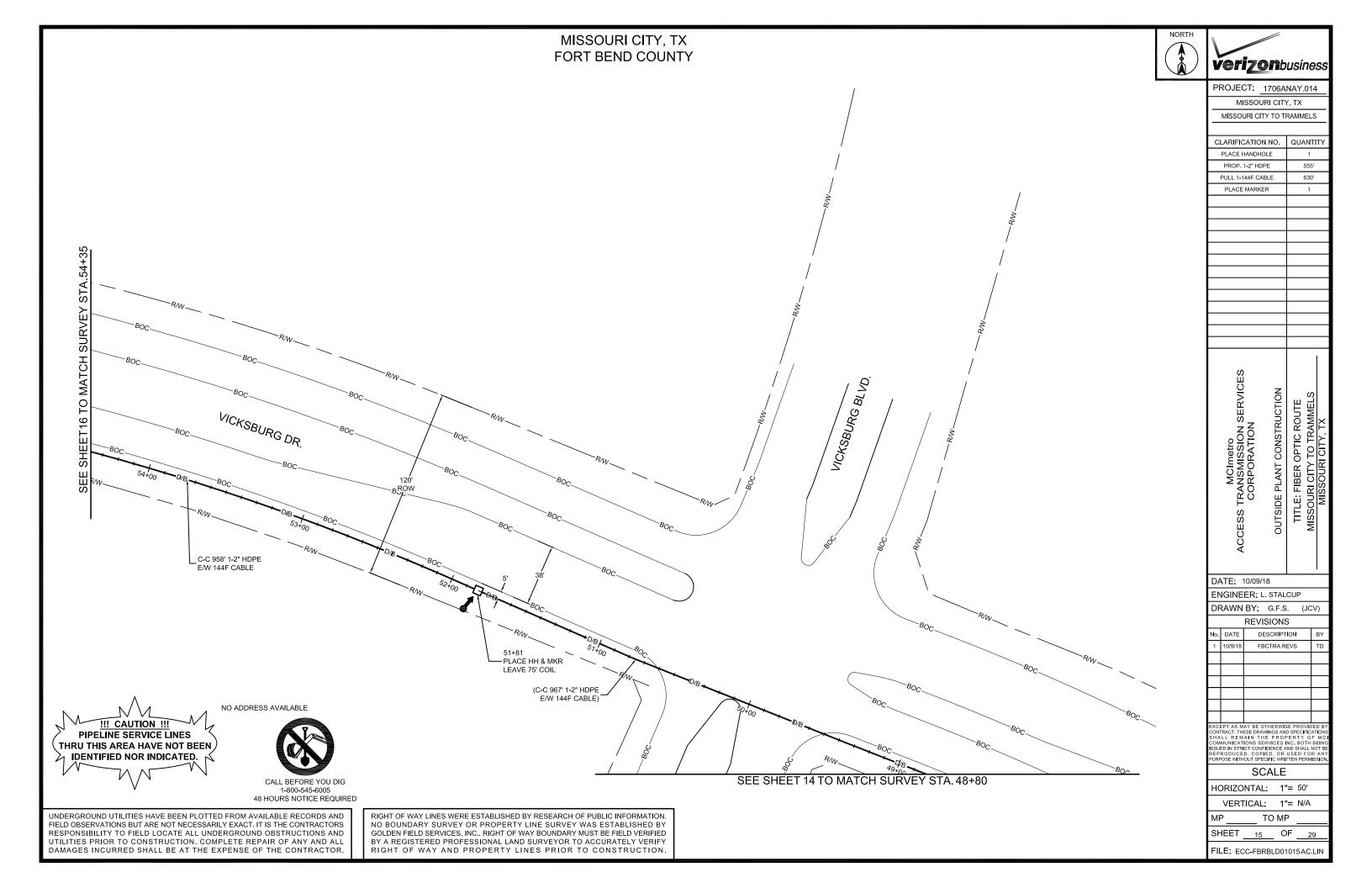


CALL BEFORE YOU DIG 1-800-545-6005 48 HOURS NOTICE REQUIRED

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## MISSOURI CITY, TX FORT BEND COUNTY **verizon**business SEE SHEET15 TO MATCH SURVEY STA.48+80 PROJECT: 1706ANAY.014 MISSOURI CITY, TX MISSOURI CITY TO TRAMMELS TRAMMEL FRESNORD CLARIFICATION NO. QUANTITY PROP. 1-2" HDPE PULL 1-144F CABLE (C-C 967' 1-2" HDPE E/W 144F CABLE) MCImetro ACCESS TRANSMISSION SERVICES CORPORATION OUTSIDE PLANT CONSTRUCTION TITLE: FIBER OPTIC ROUTE ISSOURI CITY TO TRAMMEL MISSOURI CITY, TX DATE: 10/09/18 ENGINEER: L. STALCUP DRAWN BY: G.F.S. (JCV) **REVISIONS** NO ADDRESS AVAILABLE o. DATE DESCRIPTION FBCTRA REVS SCALE !!! CAUTION !!! HORIZONTAL: 1"= 50" PIPELINE SERVICE LINES VERTICAL: 1"= N/A THRU THIS AREA HAVE NOT BEEN IDENTIFIED NOR INDICATED. UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE RECORDS AND FIELD OBSERVATIONS BUT ARE NOT NECESSARILY EXACT. IT IS THE CONTRACTORS RESPONSIBILITY TO FIELD LOCATE ALL UNDERGROUND OBSTRUCTIONS AND RIGHT OF WAY LINES WERE ESTABLISHED BY RESEARCH OF PUBLIC INFORMATION. NO BOUNDARY SURVEY OR PROPERTY LINE SURVEY WAS ESTABLISHED BY GOLDEN FIELD SERVICES, INC.. RIGHT OF WAY BOUNDARY MUST BE FIELD VERIFIED TO MP SHEET OF CALL BEFORE YOU DIG 14 UTILITIES PRIOR TO CONSTRUCTION. COMPLETE REPAIR OF ANY AND ALL DAMAGES INCURRED SHALL BE AT THE EXPENSE OF THE CONTRACTOR. BY A REGISTERED PROFESSIONAL LAND SURVEYOR TO ACCURATELY VERIFY 1-800-545-6005 RIGHT OF WAY AND PROPERTY LINES PRIOR TO CONSTRUCTION FILE: ECC-FBRBLD01014AC.LIN 48 HOURS NOTICE REQUIRED







PROJECT: 1706ANAY.014

MISSOURI CITY, TX MISSOURI CITY TO TRAMMELS CLARIFICATION NO. QUANTITY PROP. 1-2" HDPE PULL 1-144F CABLE MCImetro ACCESS TRANSMISSION SERVICES CORPORATION OUTSIDE PLANT CONSTRUCTION DATE: 10/09/18 ENGINEER: L. STALCUP DRAWN BY: G.F.S. (JCV) REVISIONS DESCRIPTION

DATE DESCRIPTION E 10/9/18 FBCTRA REVS 1

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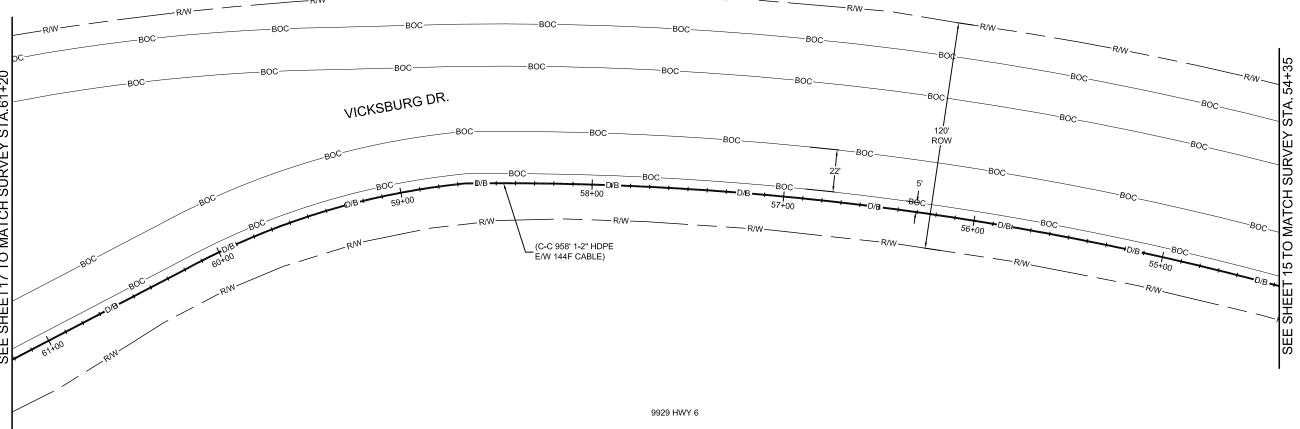
CALL BEFORE YOU DIG
1-800-545-6005
48 HOURS NOTICE REQUIRED

FILE: ECC-FBRBLD01016 AC.LIN

!!! CAUTION !!!

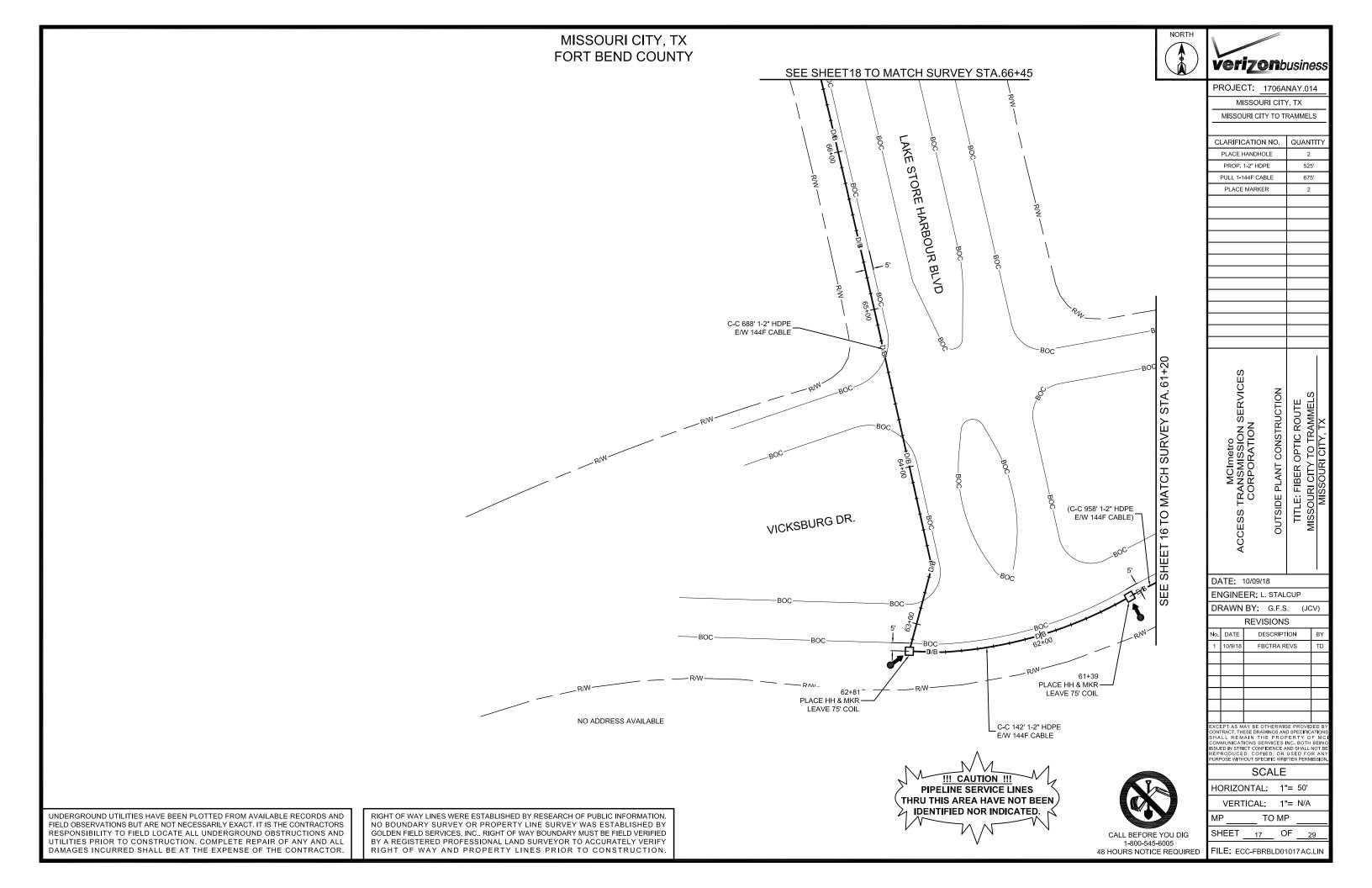
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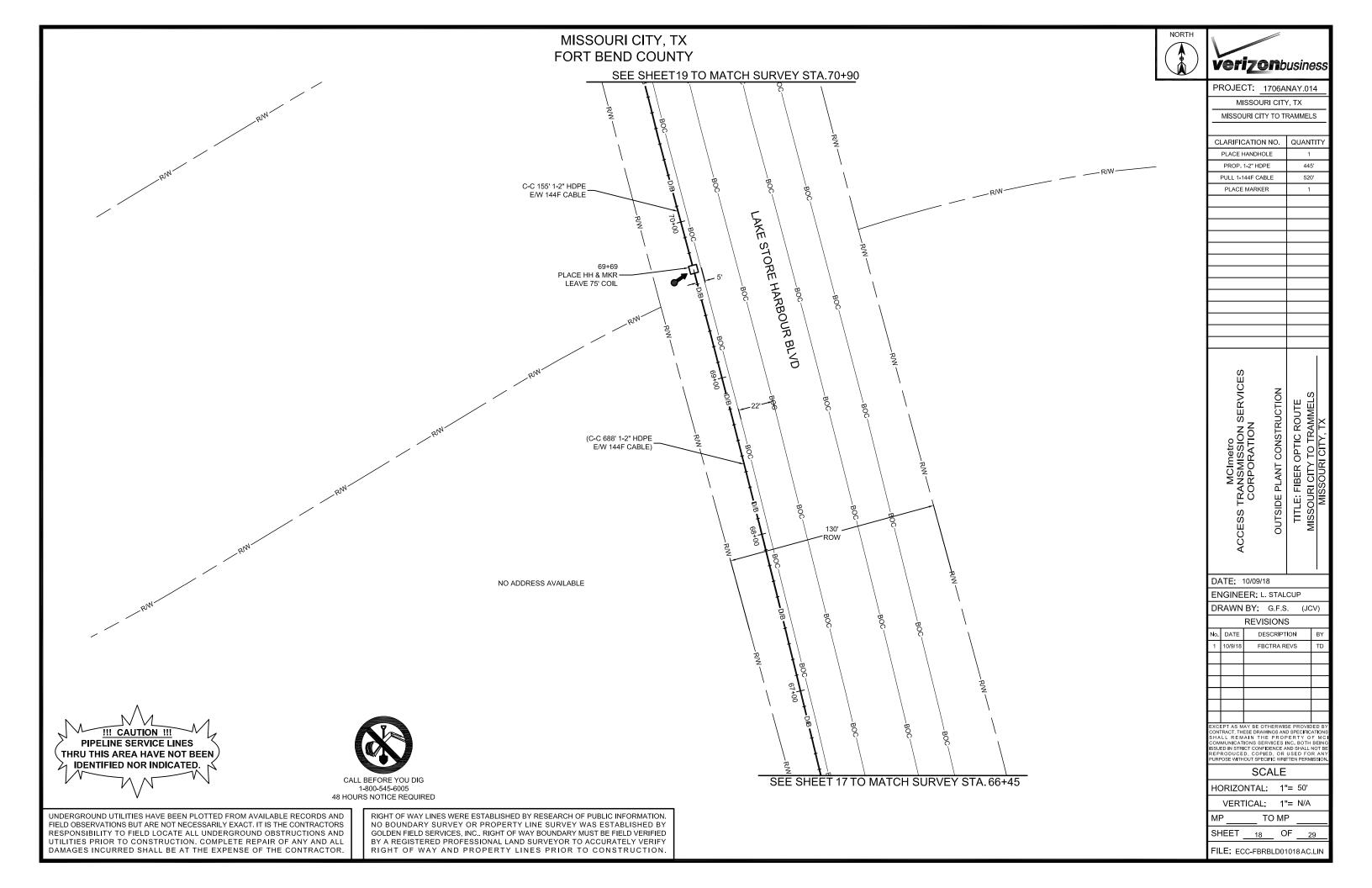
THRU THIS AREA HAVE NOT BEEN IDENTIFIED NOR INDICATED.



UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE RECORDS AND FIELD OBSERVATIONS BUT ARE NOT NECESSARILY EXACT. IT IS THE CONTRACTORS RESPONSIBILITY TO FIELD LOCATE ALL UNDERGROUND OBSTRUCTIONS AND UTILITIES PRIOR TO CONSTRUCTION. COMPLETE REPAIR OF ANY AND ALL DAMAGES INCURRED SHALL BE AT THE EXPENSE OF THE CONTRACTOR.

RIGHT OF WAY LINES WERE ESTABLISHED BY RESEARCH OF PUBLIC INFORMATION. NO BOUNDARY SURVEY OR PROPERTY LINE SURVEY WAS ESTABLISHED BY GOLDEN FIELD SERVICES, INC.. RIGHT OF WAY BOUNDARY MUST BE FIELD VERIFIED BY A REGISTERED PROFESSIONAL LAND SURVEYOR TO ACCURATELY VERIFY RIGHT OF WAY AND PROPERTY LINES PRIOR TO CONSTRUCTION.





# MISSOURI CITY, TX FORT BEND COUNTY 73+36 PLACE HH & MKR — LEAVE 75' COIL LAKE STORE ! C-C 212' 1-2" HDPE C-C 599' 1-2" HDPE NO ADDRESS AVAILABLE E/W 144F CABLE E/W 144F CABLE SHEI E HARBOUR BLVD 71+24 PLACE HH & MKR -LEAVE 75' COIL (C-C 155' 1-2" HDPE E/W 144F CABLE) !!! CAUTION !!! SEE SHEET 18 TO MATCH SURVEY STA. 70+90 PIPELINE SERVICE LINES THRU THIS AREA HAVE NOT BEEN IDENTIFIED NOR INDICATED. UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE RECORDS AND FIELD OBSERVATIONS BUT ARE NOT NECESSARILY EXACT. IT IS THE CONTRACTORS RESPONSIBILITY TO FIELD LOCATE ALL UNDERGROUND OBSTRUCTIONS AND UTILITIES PRIOR TO CONSTRUCTION. COMPLETE REPAIR OF ANY AND ALL DAMAGES INCURRED SHALL BE AT THE EXPENSE OF THE CONTRACTOR.





PROJECT: 1706ANAY 014 MISSOURI CITY, TX

MISSOURI CITY TO TRAMMELS

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MCImetro ACCESS TRANSMISSION SERVICES CORPORATION	OUTSIDE PLANT CONSTRUCTION	TITLE: FIBER OPTIC ROUTE	MISSOURI CITY TO TRAMMELS	>+ >+C all Cook
DATE: 10/09/	18			
ENCINEED	CTAL	CLID		

ENGINEER: L. STALCUP

DRAWN BY: G.F.S. (JCV) REVISIONS

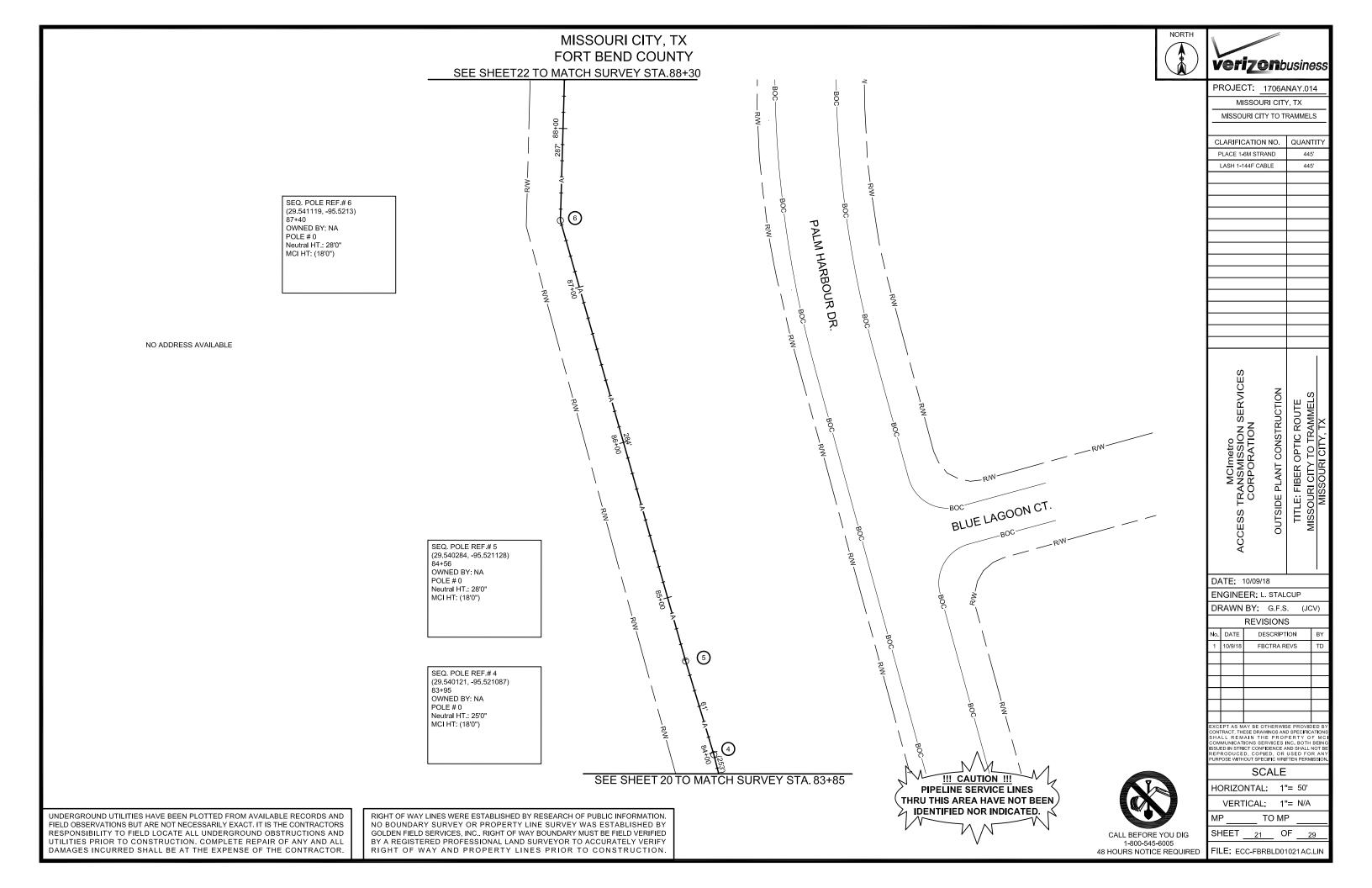
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1	10/9/18	FBCTRA REVS	TD

XCEPT AS MAY BE OTHERWISE PROVIDED BY ONTRACT. THESE DRAWINGS AND SPECIFICATION. HALL REMAIN THE PROPERTY OF MCOMMUNICATIONS SERVICES INC. BOTH BEIN SUED IN STRICT CONFIDENCE AND SHALL NOT BIEPRODUCED, COPIED, OR USED FOR AN URPOSE WITHOUT SPECIFIC WRITTEN PERMISSION

	SCALE
	HORIZONTAL: 1"= 50'
	VERTICAL: 1"= N/A
	MP TO MP
CALL BEFORE YOU DIG	SHEET 19 OF 29
1-800-545-6005 48 HOURS NOTICE REQUIRED	FILE: ECC-FBRBLD01019AC.LIN

RIGHT OF WAY LINES WERE ESTABLISHED BY RESEARCH OF PUBLIC INFORMATION. NO BOUNDARY SURVEY OR PROPERTY LINE SURVEY WAS ESTABLISHED BY GOLDEN FIELD SERVICES, INC.. RIGHT OF WAY BOUNDARY MUST BE FIELD VERIFIED BY A REGISTERED PROFESSIONAL LAND SURVEYOR TO ACCURATELY VERIFY RIGHT OF WAY AND PROPERTY LINES PRIOR TO CONSTRUCTION

#### MISSOURI CITY, TX FORT BEND COUNTY **verizon**business SEE SHEET21 TO MATCH SURVEY STA.83+85 PROJECT: 1706ANAY.014 MISSOURI CITY, TX MISSOURI CITY TO TRAMMELS CLARIFICATION NO. QUANTITY PLACE HANDHOLE PROP. 1-2" HDPE 430' PULL 1-144F CABLE PLACE 6M STRAND LASH 1-144F CABLE DOWN GUY & ANCHOR RISER: 2" U GUARD PLACE MARKER PALM HARBOUR [ SEQ. POLE REF.#3 (29.539442, -95.520915) OWNED BY: NA POLE#0 Power Riser HT.: 21'0" MCI HT: (17'0") NO ADDRESS AVAILABLE SEQ. POLE REF.#2 MCImetro ACCESS TRANSMISSION SERVICES CORPORATION (29.539343, -95.52087) OUTSIDE PLANT CONSTRUCTION OWNED BY: NA POLE # 0 OPTIC ROUTE 7 TO TRAMMELS Neutral HT.: 28'0" MCI HT: 18'0" (18'0") 3 PLACE DOWN SEQ. POLE REF.# 1 **GUY & ANCHOR** (29.539223, -95.520966) 80+50 OWNED BY: NA POLE # 0 Primary HT.: 32'0" 80+50 C-C 102' 1-2" HDPE MCI HT: (17'0") POWER POLE #1-E/W 144F CABLE ATTACH: U-GUARD RISER DATE: 10/09/18 ENGINEER: L. STALCUP DRAWN BY: G.F.S. (JCV) C-C 13' 1-2" HDPE (C-C 599' 1-2" HDPE E/W 144F CABLE **REVISIONS** E/W 144F CABLE) DATE DESCRIPTION FBCTRA REVS 80+37 PLACE HH & MKR -LEAVE 75' COIL PLACE HH & MKR LEAVE 75' COIL XCEPT AS MAY BE OTHERWISE PROVIDED E CONTRACT. THESE DRAWINGS AND SPECIFICATION HALL REMAIN THE PROPERTY OF MIN COMMUNICATIONS SERVICES INC. BOTH BEIN SUBJECT CONFIDENCE AND SHALL NOT EPRODUCED, COPIED, OR USED FOR AN URPOSE WITHOUT SPECIFIC WRITTEN PERMISSIO SCALE !!! CAUTION !!! HORIZONTAL: 1"= 50" PIPELINE SERVICE LINES VERTICAL: 1"= N/A THRU THIS AREA HAVE NOT BEEN UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE RECORDS AND FIELD OBSERVATIONS BUT ARE NOT NECESSARILY EXACT. IT IS THE CONTRACTORS RESPONSIBILITY TO FIELD LOCATE ALL UNDERGROUND OBSTRUCTIONS AND RIGHT OF WAY LINES WERE ESTABLISHED BY RESEARCH OF PUBLIC INFORMATION. NO BOUNDARY SURVEY OR PROPERTY LINE SURVEY WAS ESTABLISHED BY GOLDEN FIELD SERVICES, INC.. RIGHT OF WAY BOUNDARY MUST BE FIELD VERIFIED TO MP IDENTIFIED NOR INDICATED. SHEET OF CALL BEFORE YOU DIG UTILITIES PRIOR TO CONSTRUCTION. COMPLETE REPAIR OF ANY AND ALL BY A REGISTERED PROFESSIONAL LAND SURVEYOR TO ACCURATELY VERIFY 1-800-545-6005 DAMAGES INCURRED SHALL BE AT THE EXPENSE OF THE CONTRACTOR. RIGHT OF WAY AND PROPERTY LINES PRIOR TO CONSTRUCTION FILE: ECC-FBRBLD01020AC.LIN 48 HOURS NOTICE REQUIRED



SEE SHEET23 TO MATCH SURVEY STA.92+60



PROJECT: 1706ANAY.014

MISSOURI CITY, TX

MISSOURI CITY TO TRAMMELS

CLARIFICATION NO. QUANTITY PLACE 1-6M STRAND LASH 1-144F CABLE MCImetro ACCESS TRANSMISSION SERVICES CORPORATION OUTSIDE PLANT CONSTRUCTION

DATE: 10/09/18

ENGINEER: L. STALCUP

DRAWN BY: G.F.S. (JCV)

REVISIONS o. DATE DESCRIPTION FBCTRA REVS

SCALE

HORIZONTAL: 1"= 50" VERTICAL: 1"= N/A

TO MP

SHEET 22 OF FILE: ECC-FBRBLD01022AC.LIN

SEE SHEET 21 TO MATCH SURVEY STA. 88+30 RIGHT OF WAY LINES WERE ESTABLISHED BY RESEARCH OF PUBLIC INFORMATION. NO BOUNDARY SURVEY OR PROPERTY LINE SURVEY WAS ESTABLISHED BY GOLDEN FIELD SERVICES, INC.. RIGHT OF WAY BOUNDARY MUST BE FIELD VERIFIED BY A REGISTERED PROFESSIONAL LAND SURVEYOR TO ACCURATELY VERIFY RIGHT OF WAY AND PROPERTY LINES PRIOR TO CONSTRUCTION

SEQ. POLE REF.# 8 (29.542417, -95.521267) 92+42 OWNED BY: NA Power Riser HT.: 21'0" MCI HT: (17'0")

SEQ. POLE REF.#7 (29.541826, -95.521305) 90+27 OWNED BY: NA POLE#0 Neutral HT.: 28'0" MCI HT: (18'0")

NO ADDRESS AVAILABLE SLACK LOOP 89+00

PALM HARBOUR DR PLACE 100' 1-144F

!!! CAUTION !!! PIPELINE SERVICE LINES THRU THIS AREA HAVE NOT BEEN IDENTIFIED NOR INDICATED.



48 HOURS NOTICE REQUIRED

UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE RECORDS AND FIELD OBSERVATIONS BUT ARE NOT NECESSARILY EXACT. IT IS THE CONTRACTORS RESPONSIBILITY TO FIELD LOCATE ALL UNDERGROUND OBSTRUCTIONS AND UTILITIES PRIOR TO CONSTRUCTION. COMPLETE REPAIR OF ANY AND ALL DAMAGES INCURRED SHALL BE AT THE EXPENSE OF THE CONTRACTOR.

# MISSOURI CITY, TX FORT BEND COUNTY PALM HARBOUR DR. SHEET24 SEQ. POLE REF.# 12 (29.54328, -95.52195) 96+84 OWNED BY: NA POLE # 0 Primary HT.: 28'0" MCI HT: (18'0") PLACE DOWN GUY & ANCHOR SEQ. POLE REF.# 11 (29.542948, -95.521385) 94+60 OWNED BY: NA POLE # 0 Power Riser HT.: 21'0" MCI HT: (17'0") PLACE DOWN GUY & ANCHOR NO ADDRESS AVAILABLE SEQ. POLE REF.# 10 SEQ. POLE REF.# 9 (29.542679, -95.521255) (29.542892, -95.52127) (9) 93+38 OWNED BY: NA OWNED BY: NA POLE#0 Primary HT.: 30'0" MCI HT: (18'0") Neutral HT.: 28'0" MCI HT: (18'0") !!! CAUTION !!! SEE SHEET 22 TO MATCH SURVEY STA. 92+60 PIPELINE SERVICE LINES THRU THIS AREA HAVE NOT BEEN IDENTIFIED NOR INDICATED. UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE RECORDS AND FIELD OBSERVATIONS BUT ARE NOT NECESSARILY EXACT. IT IS THE CONTRACTORS RESPONSIBILITY TO FIELD LOCATE ALL UNDERGROUND OBSTRUCTIONS AND UTILITIES PRIOR TO CONSTRUCTION. COMPLETE REPAIR OF ANY AND ALL DAMAGES INCURRED SHALL BE AT THE EXPENSE OF THE CONTRACTOR. RIGHT OF WAY LINES WERE ESTABLISHED BY RESEARCH OF PUBLIC INFORMATION. NO BOUNDARY SURVEY OR PROPERTY LINE SURVEY WAS ESTABLISHED BY GOLDEN FIELD SERVICES, INC.. RIGHT OF WAY BOUNDARY MUST BE FIELD VERIFIED BY A REGISTERED PROFESSIONAL LAND SURVEYOR TO ACCURATELY VERIFY RIGHT OF WAY AND PROPERTY LINES PRIOR TO CONSTRUCTION





PROJECT: 1706ANAY.014 MISSOURI CITY, TX

MISSOURI CITY TO TRAMMELS

CLARIFICATION	NO.	QUA	ANT	ΙΤΥ
PLACE 1-6M STR	PLACE 1-6M STRAND		550'	
LASH 1-144F CAI	BLE		500'	
DOWN GUY & ANG	CHOR		2	
MCImetro ACCESS TRANSMISSION SERVICES CORPORATION	OUTSIDE PLANT CONSTRUCTION	TITLE: FIBER OPTIC ROUTE	MISSOURI CITY TO TRAMMELS	MISSOLIRI CITY TX
DATE: 10/09/1	18			
ENGINEER I	STAL	CUP		

ENGINEER: L. STALCUP

DRAWN BY: G.F.S. (JCV)

REVISIONS

NO.	DATE	DESCRIPTION	В
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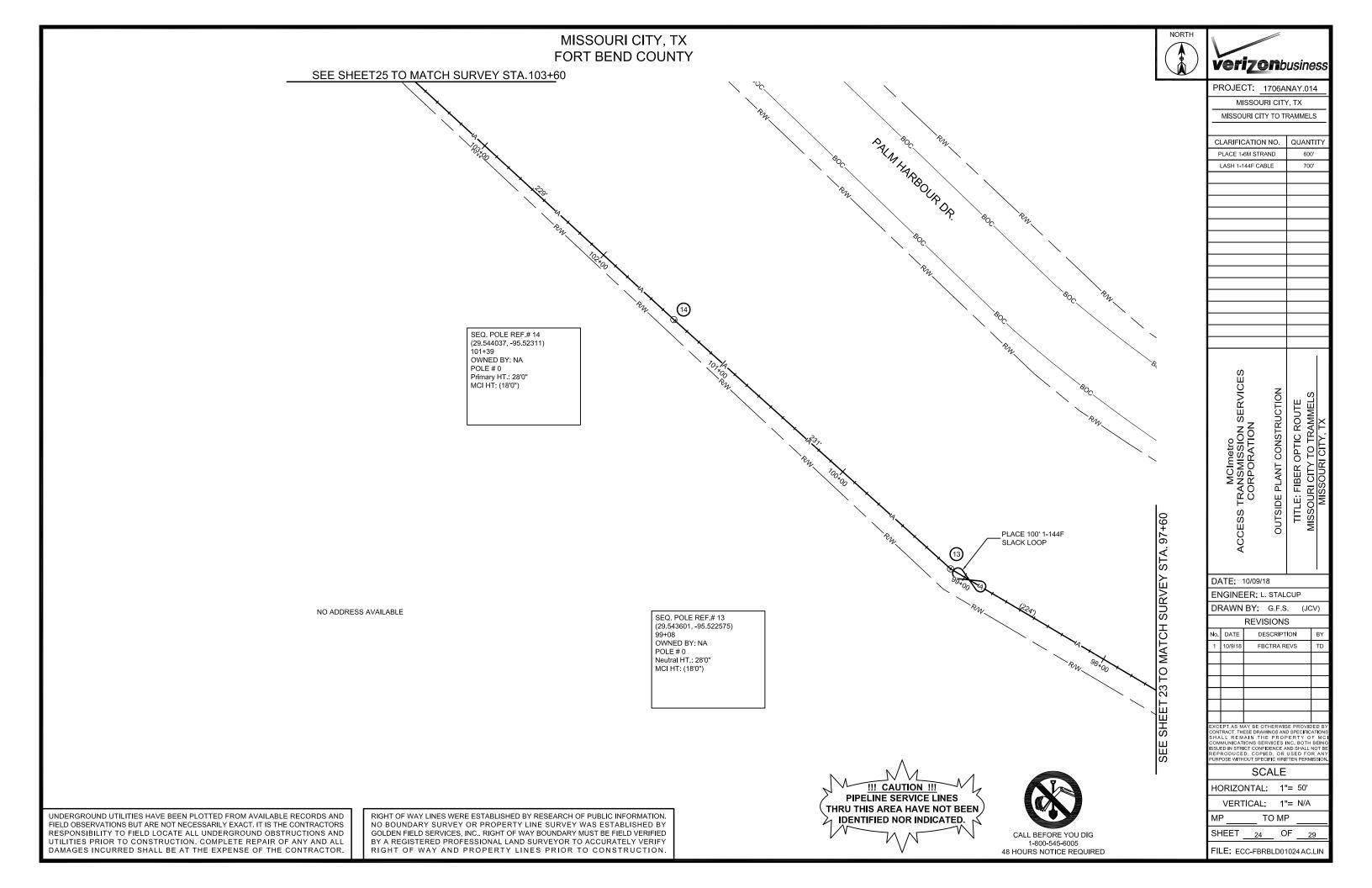
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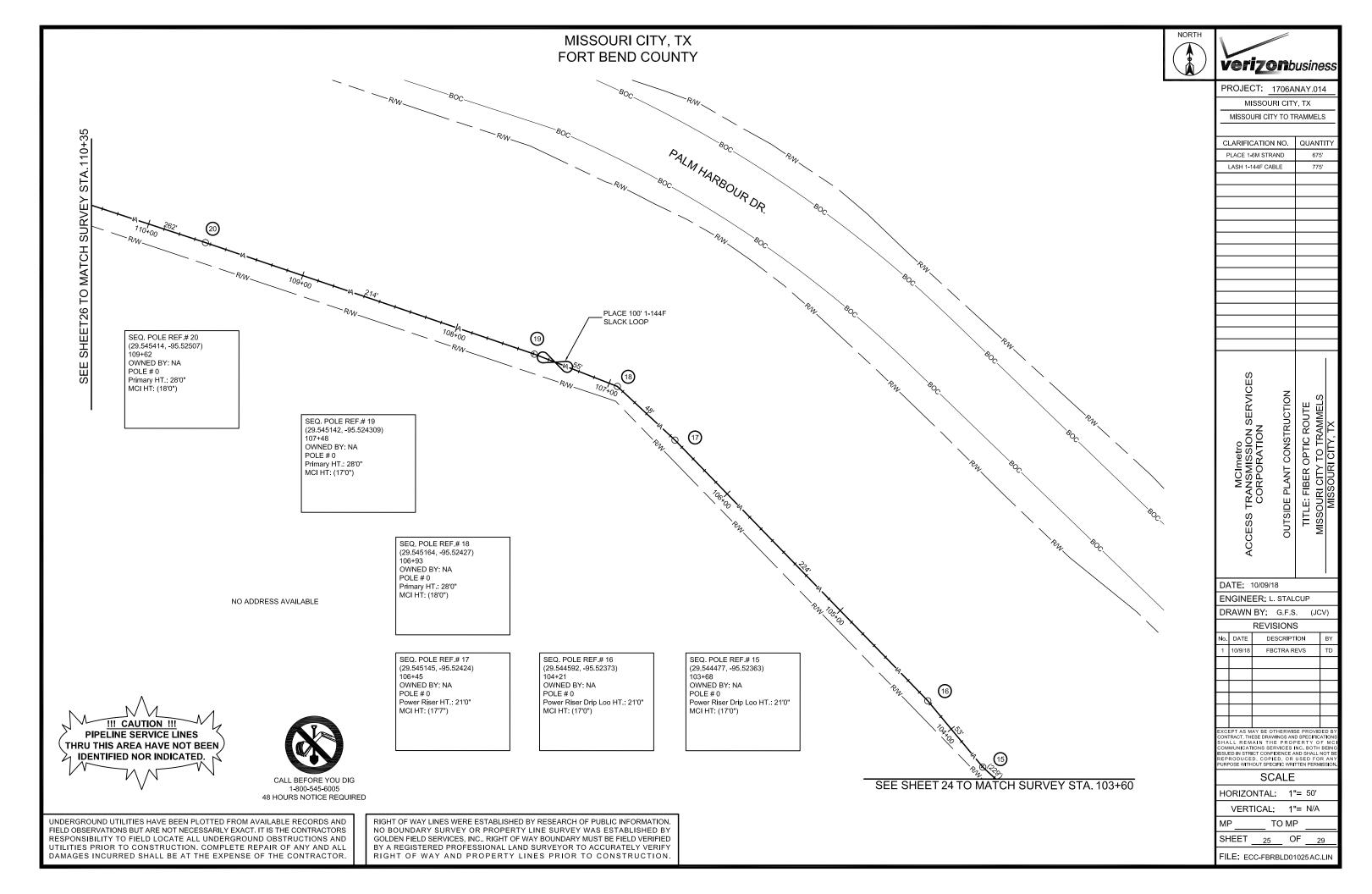
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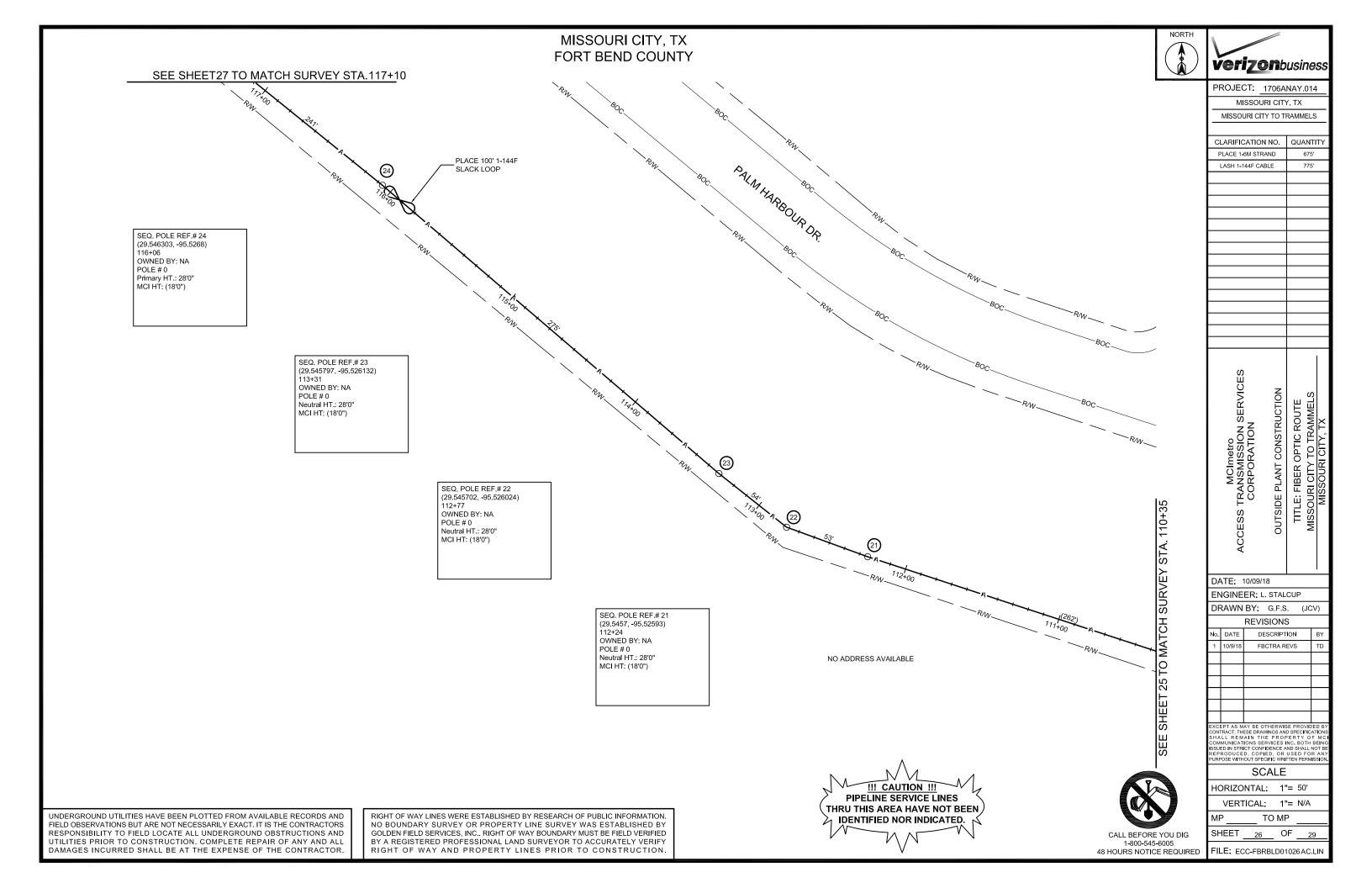
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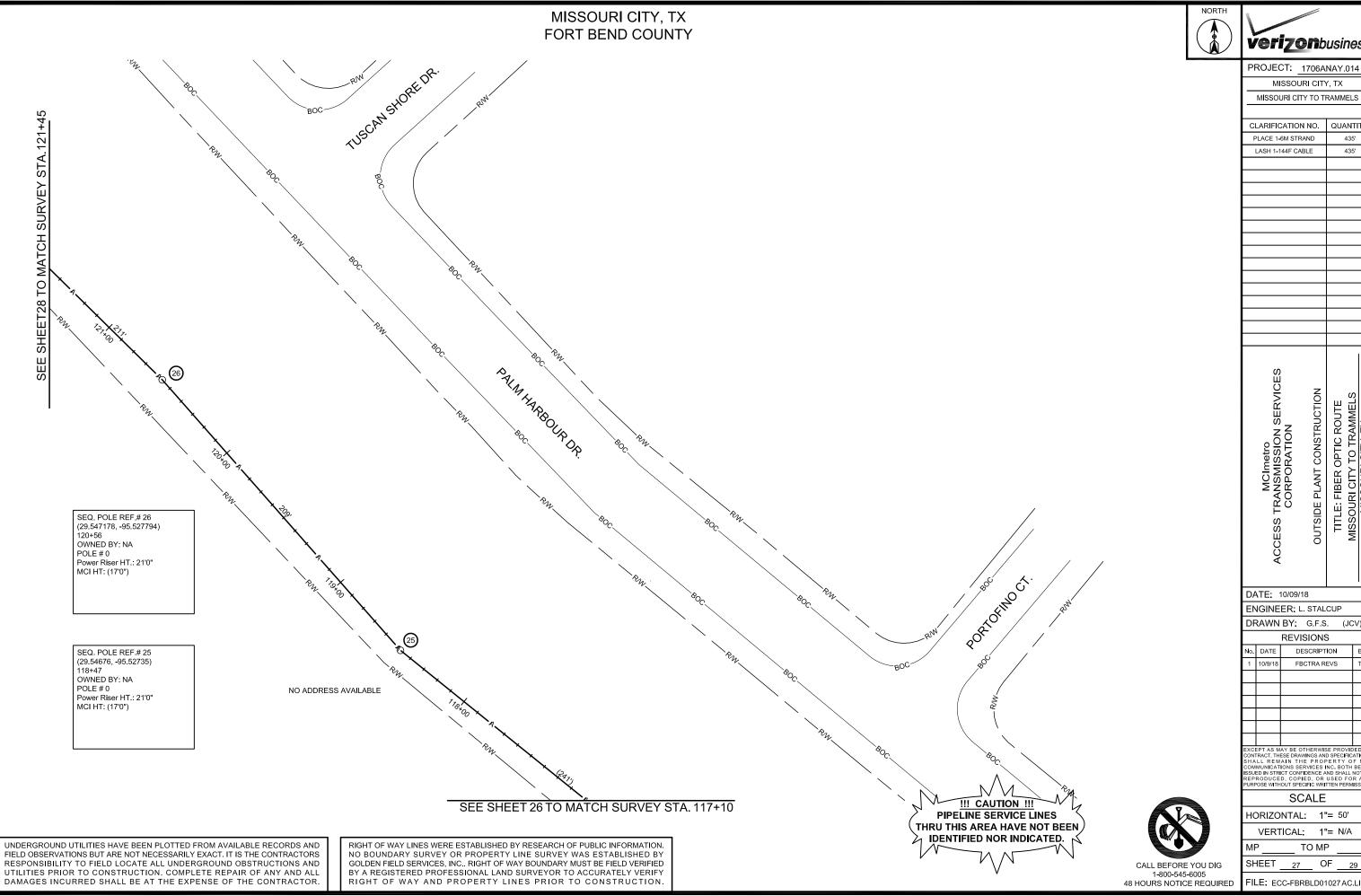
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**verizon**business

MISSOURI CITY, TX

MISSOURI CITY TO TRAMMELS

CLARIFICATION NO. QUANTITY PLACE 1-6M STRAND LASH 1-144F CABLE

OUTSIDE PLANT CONSTRUCTION

DATE: 10/09/18

DRAWN BY: G.F.S. (JCV) REVISIONS

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XCEPT AS MAY BE OTHERWISE PROVIDED E CONTRACT. THESE DRAWINGS AND SPECIFICATION HALL REMAIN THE PROPERTY OF MIN COMMUNICATIONS SERVICES INC. BOTH BEIN SUBJECT CONFIDENCE AND SHALL NOT EPRODUCED, COPIED, OR USED FOR AN URPOSE WITHOUT SPECIFIC WRITTEN PERMISSIO

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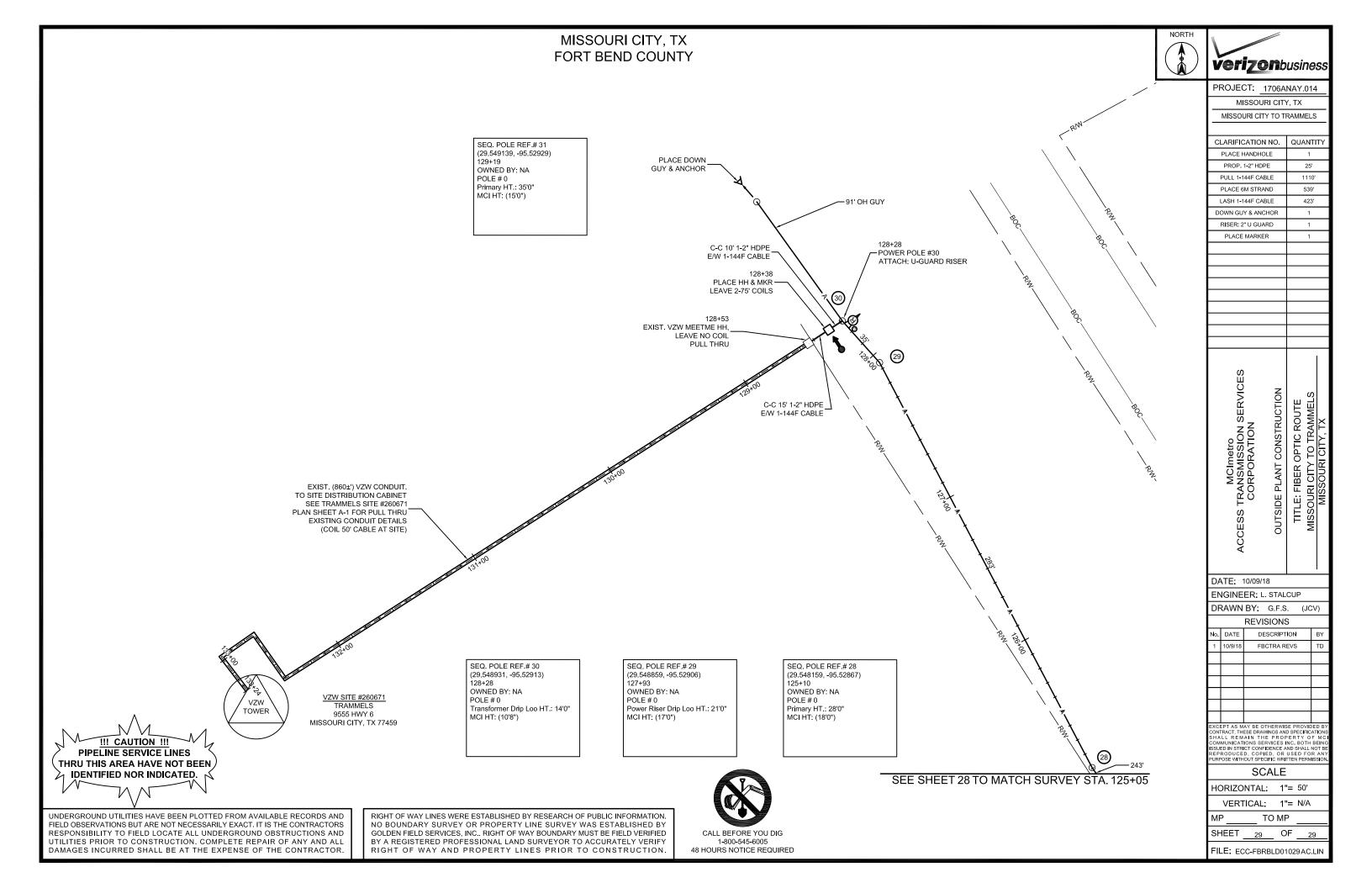
OF 27

FILE: ECC-FBRBLD01027AC.LIN

MISSOURI CITY, TX FORT BEND COUNTY **verizon**business SEE SHEET29 TO MATCH SURVEY STA.125+05 PROJECT: 1706ANAY.014 MISSOURI CITY, TX MISSOURI CITY TO TRAMMELS CLARIFICATION NO. PLACE 1-6M STRAND LASH 1-144F CABLE PLACE 100' 1-144F SLACK LOOP MCImetro ACCESS TRANSMISSION SERVICES CORPORATION OUTSIDE PLANT CONSTRUCTION SEQ. POLE REF.# 27 NO ADDRESS AVAILABLE (29.547596, -95.52825) 122+67 OWNED BY: NA POLE # 0 Primary HT.: 28'0" MCI HT: (18'0") STA. TO MATCH SURVEY DATE: 10/09/18 ENGINEER: L. STALCUP DRAWN BY GFS (JCV) REVISIONS o. DATE DESCRIPTION FBCTRA REVS SCALE !!! CAUTION !!! HORIZONTAL: 1"= 50" PIPELINE SERVICE LINES VERTICAL: 1"= N/A THRU THIS AREA HAVE NOT BEEN IDENTIFIED NOR INDICATED. UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE RECORDS AND RIGHT OF WAY LINES WERE ESTABLISHED BY RESEARCH OF PUBLIC INFORMATION. NO BOUNDARY SURVEY OR PROPERTY LINE SURVEY WAS ESTABLISHED BY GOLDEN FIELD SERVICES, INC.. RIGHT OF WAY BOUNDARY MUST BE FIELD VERIFIED TO MP FIELD OBSERVATIONS BUT ARE NOT NECESSARILY EXACT. IT IS THE CONTRACTORS RESPONSIBILITY TO FIELD LOCATE ALL UNDERGROUND OBSTRUCTIONS AND SHEET OF CALL BEFORE YOU DIG UTILITIES PRIOR TO CONSTRUCTION. COMPLETE REPAIR OF ANY AND ALL DAMAGES INCURRED SHALL BE AT THE EXPENSE OF THE CONTRACTOR. BY A REGISTERED PROFESSIONAL LAND SURVEYOR TO ACCURATELY VERIFY 1-800-545-6005 RIGHT OF WAY AND PROPERTY LINES PRIOR TO CONSTRUCTION FILE: ECC-FBRBLD01028AC.LIN 48 HOURS NOTICE REQUIRED

QUANTITY

TITLE: FIBER OPTIC ROUTE ISSOURI CITY TO TRAMMEL MISSOURI CITY, TX



### **Velasquez, Courtney**

From: Sent: Gary Gehbauer < GGehbauer@bgeinc.com> Wednesday, October 31, 2018 11:55 AM

To:

Velasquez, Courtney

Subject:

FW: Permit 2018-23448 Trammel Fresno

Attachments:

Missouri City to Trammels FTBC Plans.pdf

#### Hi Courtney,

I'm not sure if I responded back either. I was out of the office most of last week, so I apologize for the lateness with this one too. It looks like they incorporated our comments. No objections.

Can

Gary

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 < Courtney. Velasquez@fortbendcountytx.gov>

Sent: Tuesday, October 23, 2018 1:52 PM

To: Gary Gehbauer < GGehbauer @bgeinc.com>

Cc: Peterson, Jillian < Jillian.Peterson@fortbendcountytx.gov>; Eglinton, Sean < Sean.Eglinton@fortbendcountytx.gov>

Subject: FW: Permit 2018-23448 Trammel Fresno

Gary I think I let this one fall through the cracks. I sent the revised plans on 10/10 but I still have it as pending. Did I miss your reply on this one?

To refresh you on 9/18 you sent a list of items they needed to add or change they are at the very end of this email chain.

Please let me know.

From: Velasquez, Courtney

**Sent:** Wednesday, October 10, 2018 1:32 PM **To:** Gary Gehbauer < <u>GGehbauer@bgeinc.com</u>>

Cc: Peterson, Jillian < Jillian.Peterson@fortbendcountytx.gov >; Eglinton, Sean < Sean.Eglinton@fortbendcountytx.gov >;

'kcreekmore@goldenfieldservices.com' < kcreekmore@goldenfieldservices.com >; 'Angi Knisley'

<aknislev@goldenfieldservices.com>

Subject: disregard the previous on FW: Permit 2018-23448 Trammel Fresno

Gary, these are for the same permit I sent you revised plans for earlier. However this set is from Keith and it has one more page than the other set of plans I believe it is the TCP on page (16).

So these are probably the final plans for review.

Please disregard the previous email. I sent you this morning

From: Keith Creekmore < kcreekmore@goldenfieldservices.com >

Sent: Wednesday, October 10, 2018 12:43 PM

To: Velasquez, Courtney < Courtney. Velasquez@fortbendcountytx.gov >

Cc: 'brad.creekmore@yahoo.com' < brad.creekmore@yahoo.com'>; 'Barry Phillips (barrygphillips@gmail.com)'

<barrygphillips@gmail.com>

Subject: RE: Permit 2018-23448 Trammel Fresno

Courtney,

See attached MCI ECC Missouri City to Trammels FTBC revised plans. I was going to upload them in the system but they are still showing in review.

Thanks,

Keith

From: Velasquez, Courtney < <a href="mailto:Courtney.Velasquez@fortbendcountytx.gov">Courtney.Velasquez@fortbendcountytx.gov</a>>

Sent: Friday, October 05, 2018 9:27 AM

To: Keith Creekmore < kcreekmore@goldenfieldservices.com >

Subject: RE: Permit 2018-23448 Trammel Fresno

Perfect I just wanted to make sure you were not waiting on me and that I had not let this fall through the cracks.

Thank you

From: Keith Creekmore < kcreekmore@goldenfieldservices.com >

Sent: Friday, October 05, 2018 9:21 AM

**To:** Velasquez, Courtney < <u>Courtney.Velasquez@fortbendcountytx.gov</u>>; <u>marcus.armijo@verizon.com</u>; Warren Hardy (warren.hardy@ervincable.com) < <u>warren.hardy@ervincable.com</u>>

Cc: Ramirez, Jose < <u>Jose.Ramirez@fortbendcountytx.gov</u>>; Peterson, Jillian < <u>Jillian.Peterson@fortbendcountytx.gov</u>>; Eglinton, Sean < <u>Sean.Eglinton@fortbendcountytx.gov</u>>; Dalton, Maggie < <u>Maggie.Dalton@fortbendcountytx.gov</u>>; Gary Gehbauer < <u>GGehbauer@bgeinc.com</u>>; 'brad.creekmore@yahoo.com' < <u>brad.creekmore@yahoo.com</u>>; 'Barry Phillips (barrygphillips@gmail.com)' < <u>barrygphillips@gmail.com</u>>

Subject: RE: Permit 2018-23448 Trammel Fresno

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.

Courtney,

We are working on the revisions and will resubmit when completed.

Thanks, Keith

From: Velasquez, Courtney < Courtney. Velasquez@fortbendcountytx.gov>

Sent: Friday, October 05, 2018 9:12 AM

**To:** <u>marcus.armijo@verizon.com</u>; Keith Creekmore < <u>kcreekmore@goldenfieldservices.com</u>>; Warren Hardy (<u>warren.hardy@ervincable.com</u>) < <u>warren.hardy@ervincable.com</u>>

**Cc:** Ramirez, Jose < <u>Jose.Ramirez@fortbendcountytx.gov</u>>; Peterson, Jillian < <u>Jillian.Peterson@fortbendcountytx.gov</u>>; Eglinton, Sean < Sean.Eglinton@fortbendcountytx.gov>; Dalton, Maggie < <u>Maggie.Dalton@fortbendcountytx.gov</u>>; Gary

Gehbauer < GGehbauer @bgeinc.com>

Subject: RE: Permit 2018-23448 Trammel Fresno

Good morning,

I wanted to follow up on this permit. The last communication I have on it was the email I sent below on 9/18. The Parks department has replied that there will be no conflict so they have given their approval.

I wanted to make sure I had not missed a reply from you on this. Were you able to incorporate the comments below or do you have any questions.

Please let me know.

Thank you,

\*Updated platting fees will go into effect October 3<sup>rd</sup>, 2018

\*County Clerk plat recordation fees have changed and will go into effect November 1st, 2018

\*The County Clerk's office will be closed on Wednesday, October 24<sup>th</sup>. Plats approved and recorded on October 23<sup>rd</sup> will be available for pickup on the 25<sup>th</sup>.

# Courtney Velasquez Clerk III

Fort Bend County Engineering

301 Jackson St., Suite 401 | Richmond, TX 77469 Email: Courtney.Velasquez@fortbendcountytx.gov

Phone: 281-633-7516

From: Velasquez, Courtney

Sent: Tuesday, September 18, 2018 2:31 PM

To: marcus.armijo@verizon.com; 'kcreekmore@goldenfieldservices.com' < kcreekmore@goldenfieldservices.com'>;

Warren Hardy (warren.hardy@ervincable.com) < warren.hardy@ervincable.com>

**Cc:** Ramirez, Jose < <u>Jose.Ramirez@fortbendcountytx.gov</u>>; Peterson, Jillian < <u>Jillian.Peterson@fortbendcountytx.gov</u>>; Eglinton, Sean < <u>Sean.Eglinton@fortbendcountytx.gov</u>>; 'Gary

Gehbauer' < GGehbauer@bgeinc.com > Subject: Permit 2018-23448 Trammel Fresno

Good Afternoon,

I have comments on the above referenced permit application from the FBTRA. Please see below in yellow. Once you have addressed these comments please let me know.

We have also sent this application to the Parks department for the north section that enters into Kitty Hollow Park. I am currently waiting on their response and will let you know as soon as I hear anything.

If the following comments are incorporated, I believe this one will be okay because it crosses the toll road (not parallel/longitudinal) and can be accessed from Trammel Fresno. I had sent some comments via the toll road authority but here are the ones that I sent that need to be incorporated into the work:

- We need Keith to submit traffic control plans and bore pit information.
- Will the handhole locations be the bore locations?
- Also, the handholes are too close to the back of curb. Prefer that the handholes be outside of the toll road ROW but at least 6 feet behind the curb.
- Access to the handholes will not be permitted from the ramps. Access must be from Trammel Fresno

- What is the plan for fiber on the east side handhole? Will they go south towards SH 6 and Knight Rd?
- Include the FBTRA notes (attached)

Thank you

Courtney Velasquez
Clerk III
Fort Bend County Engineering
301 lackson St. Suite 401 | Pichmond T

301 Jackson St., Suite 401 | Richmond, TX 77469 Email: Courtney.Velasquez@fortbendcountytx.gov

Phone: 281-633-7516

## Velasquez, Courtney

From: Davis, Michel

Sent: Thursday, September 27, 2018 12:30 PM

**To:** Velasquez, Courtney

Cc: Dalton, Maggie; Peterson, Jillian; Eglinton, Sean; Ramirez, Jose Subject: RE: Permit 2018-23448 Trammel Fresno into Kitty Hollow Park

This project will not have any direct issues with the ongoing Kitty Hollow Park activities.

**Thanks** 

From: Velasquez, Courtney

Sent: Wednesday, September 26, 2018 9:36 AM

To: Davis, Michel < Michel. Davis@fortbendcountytx.gov>

Cc: Dalton, Maggie < Maggie. Dalton@fortbendcountytx.gov>; Peterson, Jillian < Jillian. Peterson@fortbendcountytx.gov>;

Eglinton, Sean <Sean.Eglinton@fortbendcountytx.gov>; Ramirez, Jose <Jose.Ramirez@fortbendcountytx.gov>

Subject: RE: Permit 2018-23448 Trammel Fresno into Kitty Hollow Park

Good Morning,

I wanted to follow up with you on this permit application we received on 9/18/18. If you will please review the attached site plan and let me know if it is ok for us to approve this permit. Because they want to go into Kitty Hollow Park we wanted to run it by you first.

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: Velasquez, Courtney

Sent: Tuesday, September 18, 2018 1:36 PM

To: Davis, Michel < Michel. Davis@fortbendcountytx.gov>

Cc: Dalton, Maggie < Maggie.Dalton@fortbendcountytx.gov>; Peterson, Jillian.Peterson@fortbendcountytx.gov>;

Eglinton, Sean < Sean. Eglinton@fortbendcountytx.gov>; Ramirez, Jose < Jose.Ramirez@fortbendcountytx.gov>

Subject: Permit 2018-23448 Trammel Fresno into Kitty Hollow Park

Hello,

I am reaching out to you in referenced to a permit application we have received here from MCI, they are proposing to following:

"Proposed buried and aerial fiber optic cable installation entering FTBC ROW on the Southwest corner of Fort Bend Pkwy and Trammel Fresno Rd. then continue West to the Southwest corner of Vicksburg Dr. and Lake Shore Village Dr then continue North"

It appear that part of their site plan has them going into Kitty Hollow Park at the north end near Brandisi Ct and Palm Harbour Dr. I have attached the site plan and a clip below for your reference. Before we put this permit request through I wanted to get an ok from your department.

Please advise.



Thank you,

Courtney Velasquez Clerk III Fort Bend County Engineering

301 Jackson St., Suite 401 | Richmond, TX 77469 Email: <a href="mailto:Courtney.Velasquez@fortbendcountytx.gov">Courtney.Velasquez@fortbendcountytx.gov</a>

Phone: 281-633-7516