



**REVIEW BY FORT BEND COUNTY  
COMMISSIONERS COURT**

**Fort Bend County  
Engineering Department**  
301 Jackson Suite 401  
Richmond, Texas 77469  
281.633.7500  
Permits@fortbendcountytexas.gov

- ☒ Right of Way Permit  
☐ Commercial Driveway Permit

Permit No: 2018-23705

**Applicant:** MCI Metro Access Transmission Services, Corp./Verizon

**Job Location Site:** 2756 FM 723 , ROSENBERG, TX 77471

**Bond No.**                      **Date of Bond:** 5/1/2017 **Amount:** \$50,000.00

The above applicant came to make use of certain Fort Bend County property subject to, "The Order Regulating the Laying, Construction, Maintenance, and Repair of Buried Cables, Conduits, and Pole Lines, In, Under, Across or Along Roads, Streets, Highways, and Drainage Ditches in Fort Bend County, Texas, Under the Jurisdiction of the Commissioners Court of Fort Bend County, Texas," as passed by the Commissioners Court of Fort Bend County, Texas, of the Minutes of the Commissioners Court of Fort Bend County, Texas, to the extent that such order is not inconsistent with Chapter 181, Vernon's Texas Statutes and Codes Annotated.

**Notes:**

1. Evidence of review by the Commissioners Court must be kept on the job site and failure to do so constitutes grounds for job shutdown.
2. Written notices are required:
  - a. 48 hours in advance of construction start up, and
  - b. When construction is completed and ready for final inspection, submit notification to Permit Administrator thru MyGovernmentOnline.org portal.
3. This permit expires one (1) year from date of permit if construction has not commenced.
4. This permit applies to work performed within right-of-ways owned and maintained by Fort Bend County only, and it is the responsibility of the applicant to acquire all other necessary permits.

On this 6th day of November, 2018, Upon Motion of Commissioner Meyers, seconded by Commissioner Patterson, duly put and carried, it is ORDERED, ADJUDGED AND DECREED that said notice of said above purpose is hereby acknowledged by the Commissioners Court of Fort Bend County, Texas, and that said notice be placed on record according to the regulation order thereof.

**Signature**

By: Sean Eglinton

County Engineer

N/A

By:                     

Drainage District Engineer/Manager

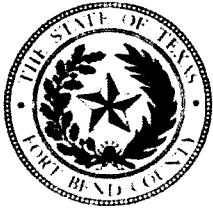
Presented to Commissioners Court and approved.

Date Recorded 11-9-2018 Comm. Court No. 12B

Clerk of Commissioners Court

By: Ainda Willes

Deputy



**PERMIT APPLICATION REVIEW FORM FOR  
CABLE, CONDUIT, AND POLE LINE ACTIVITY  
IN FORT BEND COUNTY**

**Fort Bend County  
Engineering Department**  
301 Jackson Suite 401  
Richmond, Texas 77469  
281.633.7500  
Permits@fortbendcountytx.gov

- ☒ Right of Way Permit  
☐ Commercial Driveway Permit

Permit No: 2018-23705

The following "Notice of Proposed Cable, Conduit, and/or Pole Line activity in Fort Bend County" and accompanying attachments have been reviewed and the notice conforms to appropriate regulations set by Commissioner's Court of Fort Bend County, Texas.

**(1) COMPLETE APPLICATION FORM:**

- ☒ a. Name of road, street, and/or drainage ditch affected.  
☒ b. Vicinity map showing course of directions  
☒ c. Plans and specifications

**(2) BOND:**

- ☐ County Attorney, approval when applicable.
- ☒ Perpetual bond currently posted.      Bond No: [REDACTED]      Amount: \$50,000.00
- ☐ Performance bond submitted.      Bond No: \_\_\_\_\_      Amount: \_\_\_\_\_
- ☐ Cashier's Check      Check No: \_\_\_\_\_      Amount: \_\_\_\_\_

**(3) DRAINAGE DISTRICT APPROVAL (WHEN APPLICABLE):**

\_\_\_\_\_  
Drainage District Approval

\_\_\_\_\_  
Date

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

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

10/29/2018

\_\_\_\_\_  
Date

MCImetro  
ACCESS TRANSMISSION SERVICES CORPORATION

OUTSIDE PLANT CONSTRUCTION  
FIBER OPTIC CABLE ROUTE

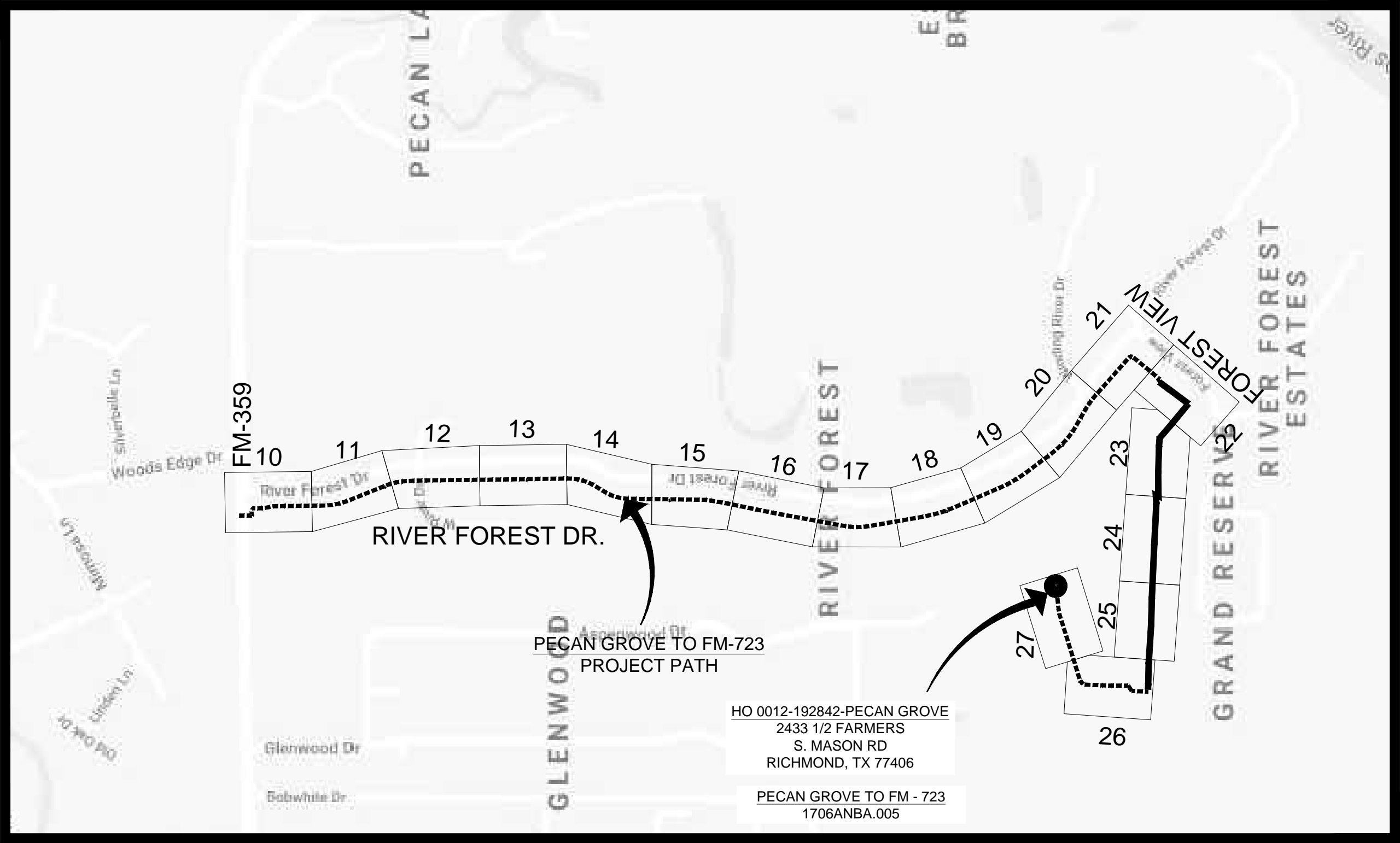
ECC FIBER BUILD: 1706ANBA.005  
PECAN GROVE TO FM-723  
RICHMOND, TX

SITE CODE: HODATX

PROJECT STATUS: CONSTRUCTION

DATE: 09/21/18

LOCATION MAP  
RICHMOND, TX  
FORT BEND COUNTY



MAP LINE LEGEND

- PROPOSED BURIED CABLE
- PROPOSED AERIAL CABLE

PROJECT: 1706ANBA.005  
RICHMOND, TX  
PEACAN GROVE TO FM - 723



MCI metro  
ACCESS TRANSMISSION SERVICES  
CORPORATION  
OUTSIDE PLANT CONSTRUCTION  
TITLE: FIBER OPTIC ROUTE  
PEACAN GROVE TO FM - 723  
RICHMOND, TX

DATE: 09/21/18  
ENGINEER: ECC  
DRAWN BY: T.P.G. (KIB)

REVISIONS			
No.	DATE	DESCRIPTION	BY
1.	-	-	-

EXCEPT AS MAY BE OTHERWISE PROVIDED BY CONTRACT, THESE DRAWINGS AND SPECIFICATIONS SHALL REMAIN THE PROPERTY OF MCI COMMUNICATIONS SERVICES INC. BOTH BEING ISSUED IN STRICT CONFIDENCE AND SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WITHOUT SPECIFIC WRITTEN PERMISSION.

SCALE  
HORIZONTAL: 1"= 50'  
VERTICAL: 1"= N/A  
MP \_\_\_\_\_ TO MP \_\_\_\_\_  
SHEET 2 OF 27  
FILE: 1706ANBA.005 02 A

CONTACT SHEET

MCI

PROJECT ENGINEER:

PROJECT MANAGER:

PROJECT COORDINATOR:

OUTSIDE PLANT CONSTRUCTION:

CONSTRUCTION CONTRACTOR:	ERVIN CABLE CONSTRUCTION	844-322-2524
CONSTRUCTION MANAGER:	AURELIO MALLAMANCE	270-349-0337

AGENT:

MANAGER:

COORDINATOR:

MANAGER:

PROGRAM MANAGER:

LIGHTWAVE ENGINEER:

CIVIL ENGINEER:

TERMINAL CONST. REP.:

SPLICING MANAGER:

TSO MANAGER:

ENGINEERING CONTRACTOR

RAILROADS

UNION PACIFIC RAILROAD	DANIEL PETERS	402-544-8620
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UTILITIES

MCI UTILITY LOCATE	1-800-624-9675
TEXAS ONE CALL SYSTEM (UTILITY LOCATES)	1-800-545-6005

NON MEMBERS:

CITY GOVERNMENT

RICHMOND PUBLIC WORKS DEPARTMENT  
600 MORTON STREET , RICHMOND TEXAS  
PUBLIC WORKS - 281-342-0559  
CITY ENGINEER – KELLY KALUZA

COUNTY GOVERNMENT

STATE GOVERNMENT

TEXAS DEPARTMENT OF TRANSPORTATION 7600 WASHINGTON AVE. HOUSTON TX, 77076 HOUSTON DISTRICT - PERMITS PERMIT COORDINATOR: TRICIA COLLETTE	OFFICE: (713) 802-5568 E-MAIL: TRICIA.COLLETTE@TXDOT.GOV
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FEDERAL GOVERNMENT

N/A

OTHER

N/A

PROJECT: 1706ANBA.005

RICHMOND, TX

PEACAN GROVE TO FM - 723



MCI metro ACCESS TRANSMISSION SERVICES CORPORATION	OUTSIDE PLANT CONSTRUCTION	TITLE: FIBER OPTIC ROUTE PEACAN GROVE TO FM - 723 RICHMOND, TX
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DATE: 09/21/18

ENGINEER: ECC

DRAWN BY: T.P.G. (KIB)

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SCALE

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VERTICAL: 1"= N/A

MP \_\_\_\_\_ TO MP \_\_\_\_\_

SHEET 3 OF 27

FILE: 1706ANBA.005 03 A

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.
2.

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.
3.

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.
5.

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.
7.

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.
9.

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.
11.

UNDERGROUND CONDUIT WILL BE PLACED AT 48" MINIMUM COVER UNLESS OTHERWISE SPECIFIED ON THE CONSTRUCTION DRAWINGS.

CLARIFICATION NOTES

1.

2.

3.

4.

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6.

7.

1.

2.

3.

4.

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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)
- 200

210

212

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PLACE CONDUIT

PLACE HIGH DENSITY POLYETHYLENE (HDPE)

ROCK ADDER

SLURRY BACKFILL ADDER

EXPOSE CONDUIT

EXPOSE CONDUIT AND RELOCATE

EXPOSE CONDUIT AND REPLACE/SUBSTITUTE

EXPOSE AND REMOVE CONDUIT

EXPOSE AND REMOVE CONDUIT (ABANDONED)

CONCRETE ENCASE

REMOVE CONCRETE ENCASEMENT

REMOVE CONCRETE CAP

PLACE HANDHOLE

REMOVE EXISTING HANDHOLE

RELOCATE HANHOLE

REPLACE/SUBSTITUTE HANDHOLE

EXCAVATE SPLICE PIT

PLACE MANHOLE

REMOVE EXISTING MANHOLE

RELOCATE PRECAST MANHOLE

REPLACE/SUBSTITUTE PRECAST MANHOLE

CONSTRUCT WALL

REMOVE AND RESTORE ASPHALT

REMOVE AND RESTORE CONCRETE

REMOVE AND RESTORE SIDEWALK

REMOVE AND RESTORE CURBING

300

310

315

320

330

ATTACH CONDUIT TO WALL OR STRUCTURE

DETACH CONDUIT FROM WALL OR STRUCTURE

CORE BORE

ATTACH PULL/SPLICE BOX TO WALL OR STRUCTURE

400

410

411

415

420

PULL CABLE

PULL THROUGH DUCT (INNERDUCT)

REMOVE CABLE FROM CONDUIT

REPOSITION ACTIVE CABLE SLACK

500

510

515

516

517

520

525

518

527

528

530

535

DIRECT BURY CABLE

EXPOSE DIRECT BURIED CABLE

EXPOSE DIRECT BURIED CABLE AND RELOCATE

REMOVE AND DISPOSE OF CABLE

PLACE AERIAL CABLE

RELOCATE AERIAL CABLE

DELASH AERIAL CABLE

RELASH AERIAL CABLE

REMOVE AERIAL CABLE

PLACE POLE/PUSH BRACE

REMOVE POLE/PUSH BRACE

600

610

620

630

JETTING CONDUIT

EMBEDMENT PLOW

DIRECTIONAL BORE

700

710

711

713

712

714

PLACE BURIED CABLE MARKERS AND SIGNS/MWCOM

WATER CROSSING SIGNS

PLACE ISOLATOR/PROTECTION SYSTEM AT EXISTING HANDHOLES/MANHOLE

REMOVE BURIED CABLE MARKER POST/HARDWARE

REMOVE CONCRETE BURIED CABLE MARKER POST

PROJECT: 1706ANBA.005

RICHMOND, TX

PEACAN GROVE TO FM - 723



MCI metro  
ACCESS TRANSMISSION SERVICES  
CORPORATION

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC ROUTE  
PEACAN GROVE TO FM - 723  
RICHMOND, TX

DATE: 09/21/18

ENGINEER: ECC

DRAWN BY: T.P.G. (KIB)

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SCALE

HORIZONTAL: 1"= 50'

VERTICAL: 1"= N/A

MP TO MP

SHEET 4 OF 27

FILE: 1706ANBA.005 04 A

SYMBOLS KEY

DIRECT BURIED CABLE

AERIAL CABLE

SUBMARINE CABLE

FOGWIRE CABLE

DIRECT BURIED HDPE

PVC OR SPLIT PVC CONDUIT

BSP/GSP OR SPLIT BSP/GSP CONDUIT

STEEL CASING

REMOVE AND RESTORE ASPHALT OR CONCRETE  
(WIDTH AS INDICATED)

CORE BORE

JACK AND BORE

DIRECTIONAL BORE (& PLACE CONDUIT)

FUTURE CABLE

REMOVE CABLE

TO BE REMOVED OR ABANDONED  
(SHOWN FOR HDPE)

AERIAL UTILITY (ELECTRIC)

UNDERGROUND UTILITY (TELEPHONE)

MAIN TRACKS

AUXILLARY TRACKS

CENTERLINE

RIGHT-OF-WAY

EDGE OF ROADWAY (GENERIC)

EDGE OF PAVEMENT

BACK OF CURB

DITCH LINE

TAX, CITY, COUNTY, OR STATE BOUNDARY LINE

PROPERTY LINE

FENCE LINE

GUARDRAIL

TOP OF SLOPE

TOE OF SLOPE

EXISTING

PROPOSED

STEEL MARKER AND SIGN-(A)  
ALUMINUM "HUB"-STYLE MARKER-(B)  
FLAT MARKER-(C)  
TUBULAR MARKER-(D)  
TUBULAR MARKER, & ISOLATOR PROTECTOR-(E)

MILE POST MARKER  
NOTE:  
DASHED = NOT FOUND IN FIELD

PERMIT TRACKING FORM IDENTIFIER

ROCK PROBE (DEPTH AS INDICATED)

UTILITY COVER DEPTH

HANDHOLE, MANHOLE OR PULLBOX

POLE

ANCHOR ONLY

GUY ONLY

OVERHEAD GUY (ARROW IN DIRECTION OF PULL)

ANCHOR AND GUY

SIDEWALK ANCHOR AND GUY

FOREIGN ANCHOR AND GUY

PUSH BRACE (EXISTING POLE)

ACCOUNT CODE CHANGE (BURIED TO AERIAL)

RISER ATTACHMENT LOCATION

BOND AND GROUND

CULVERT (SIZE AS INDICATED)

BRIDGE

WATER METER

GAS VALVE

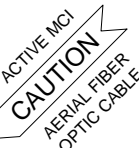
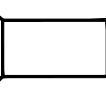
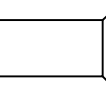
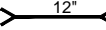
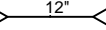
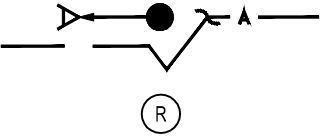
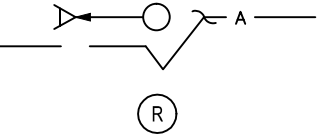
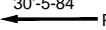
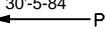
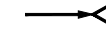
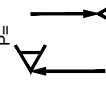
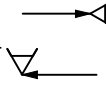
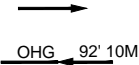
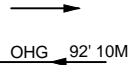
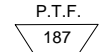
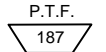
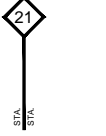
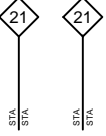
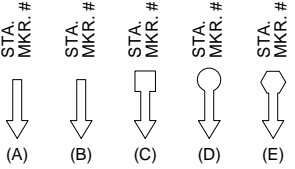
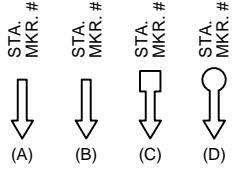
FIRE HYDRANT

RAILROAD SIGNAL CONTROL BOX

CAUTION NOTE

EXISTING

PROPOSED



PROJECT: 1706ANBA.005

RICHMOND, TX

PEACAN GROVE TO FM - 723



McImetro  
ACCESS TRANSMISSION SERVICES  
CORPORATION

OUTSIDE PLANT CONSTRUCTION  
TITLE: FIBER OPTIC ROUTE  
PEACAN GROVE TO FM - 723  
RICHMOND, TX

DATE: 09/21/18

ENGINEER: ECC

DRAWN BY: T.P.G. (KIB)

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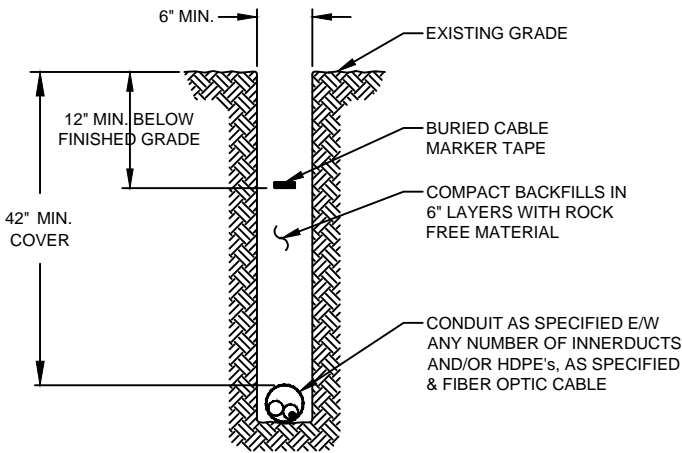
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SCALE	
HORIZONTAL:	1"= 50'
VERTICAL:	1"= N/A
MP	TO MP
SHEET	6 OF 27
FILE: 1706ANBA.005 06 A	

CONSTRUCTION DETAILS

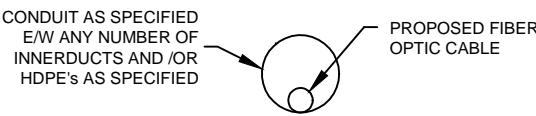
TYPICAL DETAIL "A"

TRENCH & PLACE CONDUIT



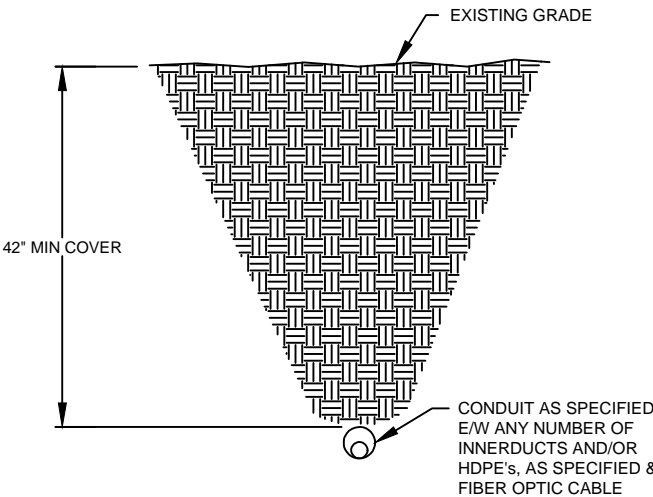
TYPICAL DETAIL "B"

CROSS SECTION OF PROPOSED HDPE



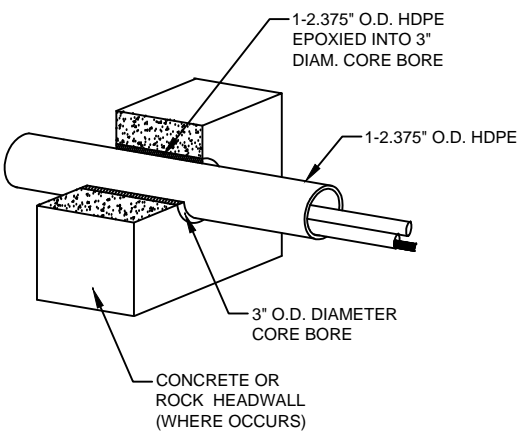
TYPICAL DETAIL "C"

DIRECTIONAL BORE CROSS SECTION FOR CONDUIT



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.

PROJECT: 1706ANBA.005

RICHMOND, TX

PEACAN GROVE TO FM - 723



McImetro  
ACCESS TRANSMISSION SERVICES  
CORPORATION

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC ROUTE

PEACAN GROVE TO FM - 723

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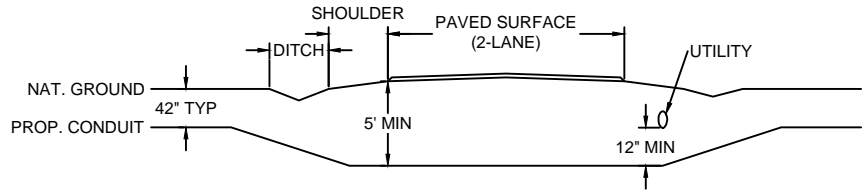
SCALE	
HORIZONTAL:	1"= 50'
VERTICAL:	1"= N/A
MP	TO MP
SHEET	7 OF 27
FILE: 1706ANBA.005 07 A	



# TYPICAL CROSSING PROFILE DETAILS: UNDERGROUND

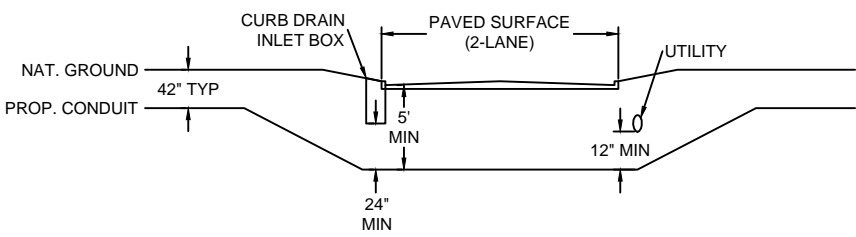
TYPICAL DETAIL "A"

TWO LANE - ASPHALT ROAD - NO CURB



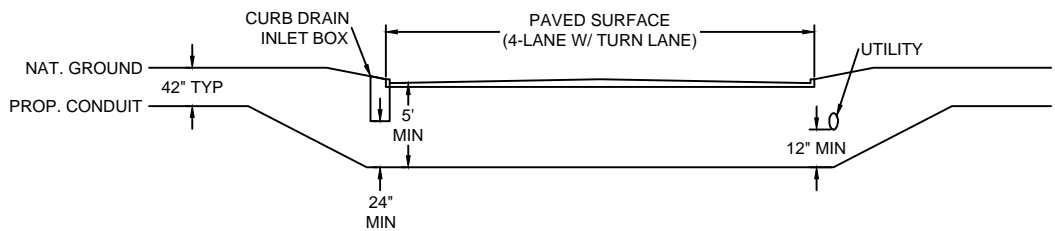
TYPICAL DETAIL "B"

TWO LANE - CURBED ROAD



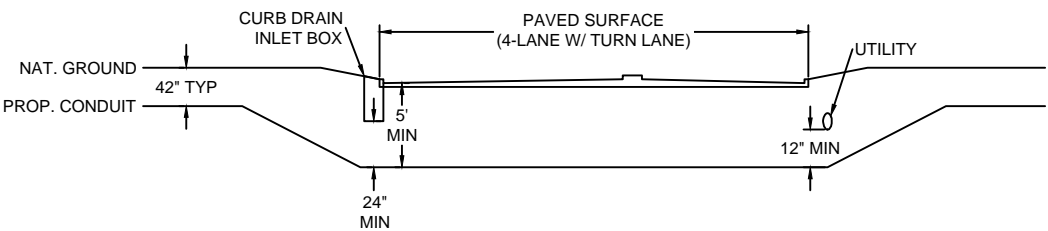
TYPICAL DETAIL "C"

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



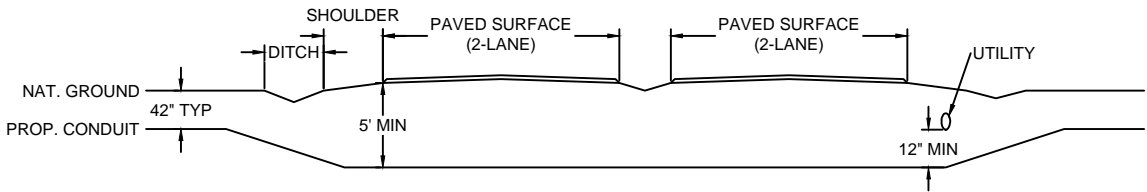
TYPICAL DETAIL "D"

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



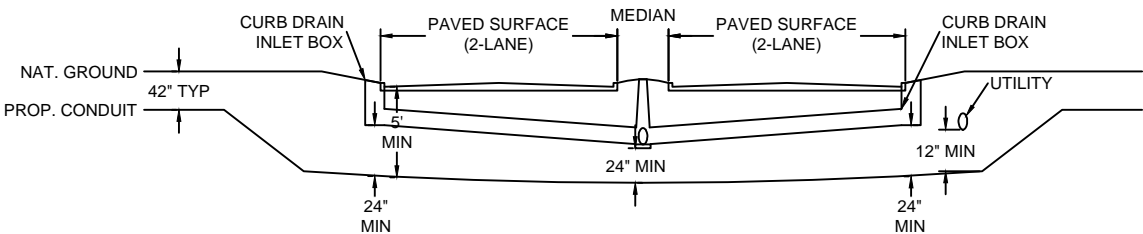
TYPICAL DETAIL "E"

4 LANE - SPLIT ASPHALT ROAD - NO CURB



TYPICAL DETAIL "F"

4 LANE - SPLIT CURBED ROAD



PROJECT: 1706ANBA.005

RICHMOND, TX

PEACAN GROVE TO FM - 723



McImetro  
ACCESS TRANSMISSION SERVICES  
CORPORATION

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC ROUTE

PEACAN GROVE TO FM - 723

RICHMOND, TX

DATE: 09/21/18

ENGINEER: ECC

DRAWN BY: T.P.G. (KIB)

REVISIONS

No.	DATE	DESCRIPTION	BY
1.	-	-	-

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SCALE

HORIZONTAL: 1"= 50'

VERTICAL: 1"= N/A

MP \_\_\_\_\_ TO MP \_\_\_\_\_

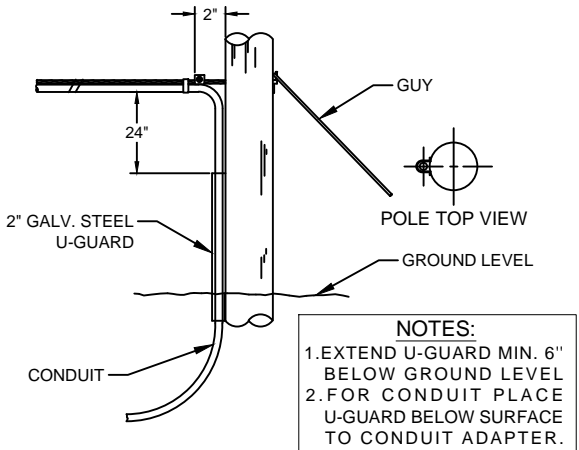
SHEET 7A OF 27

FILE: 1706ANBA.005 07AA

GENERAL AERIAL CONSTRUCTION DETAILS

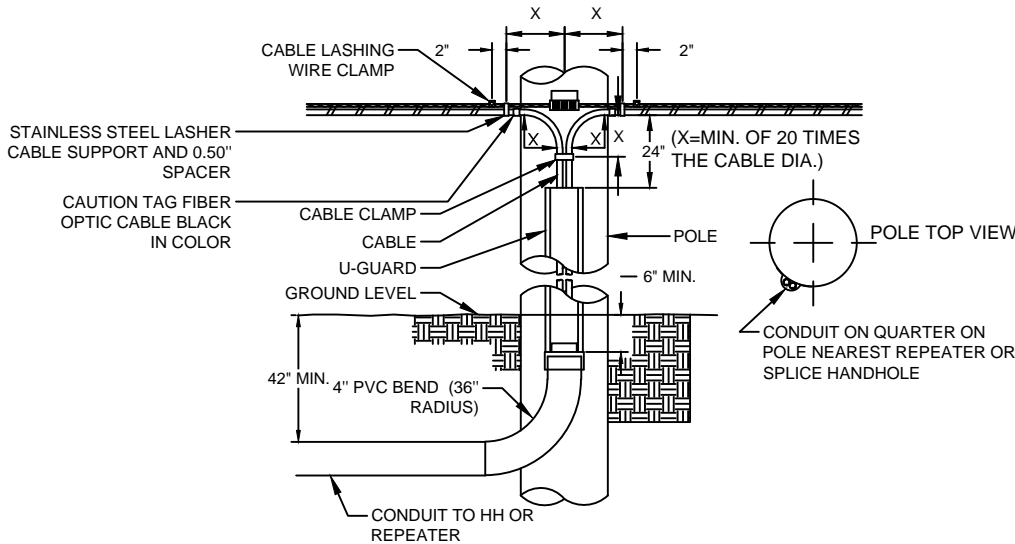
TYPICAL DETAIL "A"

POLE ARRANGEMENT FOR  
AERIAL TO BURIED



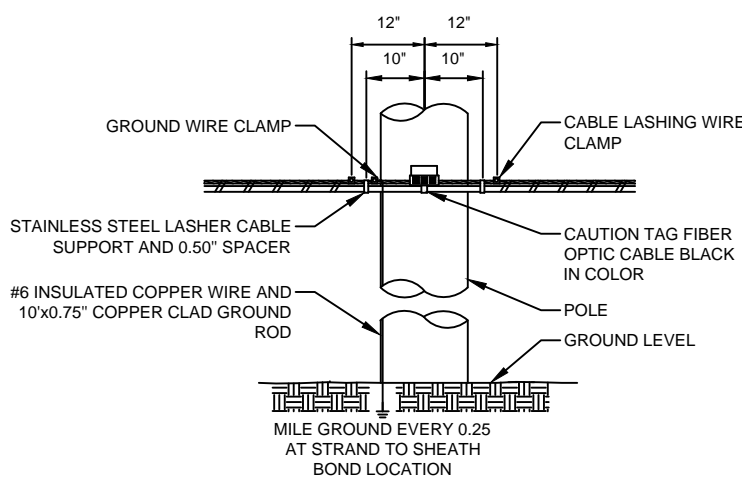
TYPICAL DETAIL "B"

POLE ARRANGEMENT FOR REPEATER  
OR HANDHOLE LOCATION



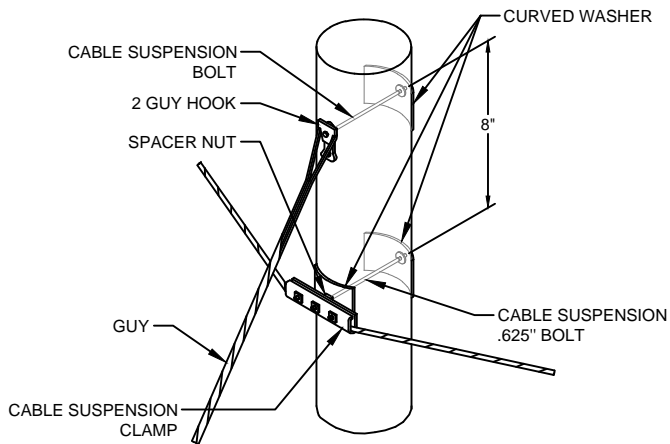
TYPICAL DETAIL "C"

TYPICAL CABLE & HARDWARE  
INSTALLATION



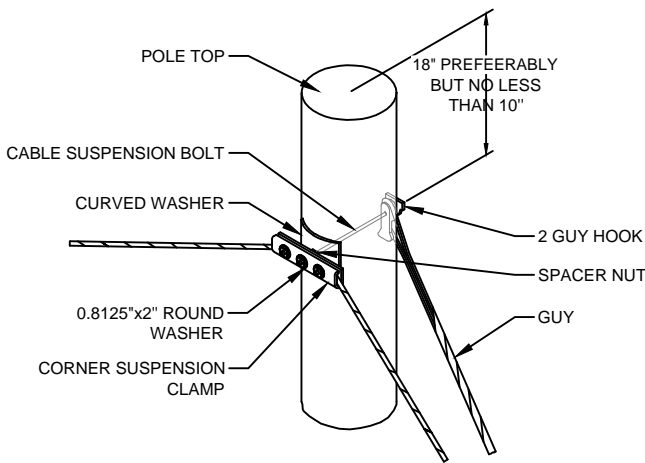
TYPICAL DETAIL "D"

SUSPENSION STRAND - PULL TOWARD  
POLE - LESS THAN 5 FEET



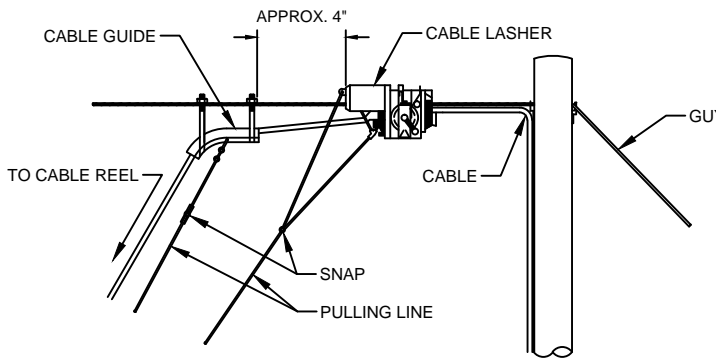
TYPICAL DETAIL "E"

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



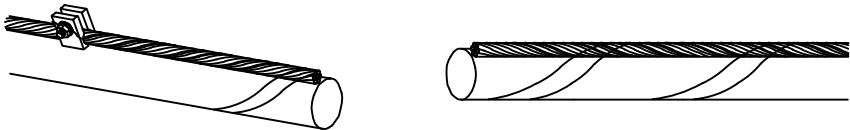
TYPICAL DETAIL "F"

TYPICAL ARRANGEMENT OF  
CABLE LASHER AND CABLE GUIDE



TYPICAL DETAIL "G"

JOINING 045 LASHING WIRE



FORMING WIRE OVER  
STUD OF CLAMP

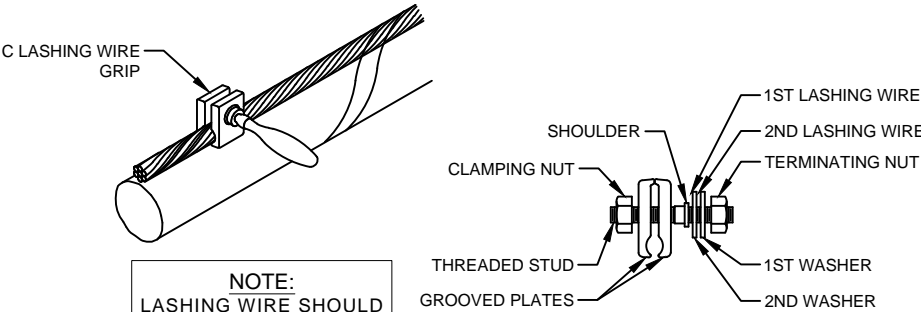
REMOVE ANY SLACK IN THE LASHING WIRE BY MAINTAINING A PULL ON THE WIRE AND TAPPING THE STRAND SHARPLY. THEN FORM THE WIRE OVER THE STUD AND TIGHTEN THE NUT. CUT THE FREE END OF THE LASHING WIRE OFF 0.75" BEYOND THE END OF THE CLAMP.

FORMING LASHING WIRE  
AROUND STRAND

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

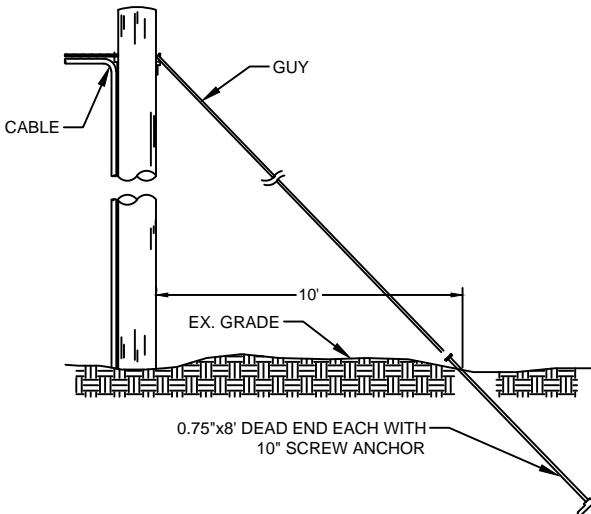
TYPICAL DETAIL "H"

LASHING WIRE GRIP AND CLAMP



TYPICAL DETAIL "I"

ANCHOR & DOWN GUY



PROJECT: 1706ANBA.005  
RICHMOND, TX  
PEACAN GROVE TO FM - 723



McImetro  
ACCESS TRANSMISSION SERVICES  
CORPORATION  
OUTSIDE PLANT CONSTRUCTION  
TITLE: FIBER OPTIC ROUTE  
PEACAN GROVE TO FM - 723  
RICHMOND, TX

DATE: 09/21/18  
ENGINEER: ECC  
DRAWN BY: T.P.G. (KIB)

REVISIONS			
No.	DATE	DESCRIPTION	BY
1.	-	-	-

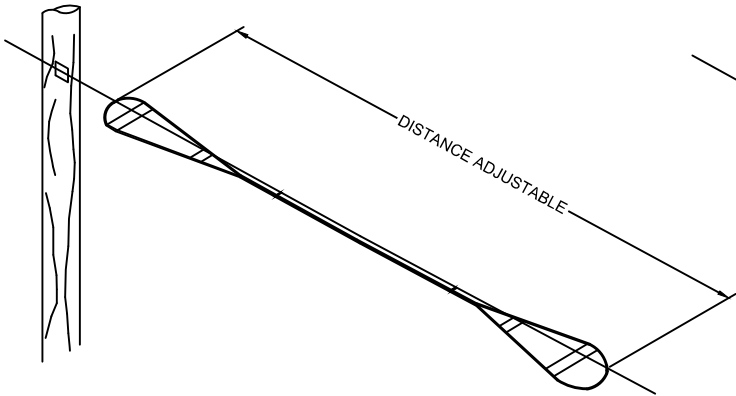
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SCALE  
HORIZONTAL: 1"= 50'  
VERTICAL: 1"= N/A  
MP \_\_\_\_\_ TO MP \_\_\_\_\_  
SHEET 7B OF 27  
FILE: 1706ANBA.005 07BA

AERIAL IN-LINE SLACK STORAGE DETAILS

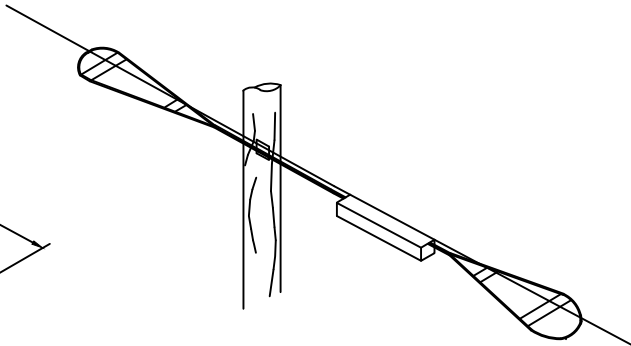
TYPICAL DETAIL "A"

RESERVE CABLE LENGTH  
STRAND STORAGE APPLICATION



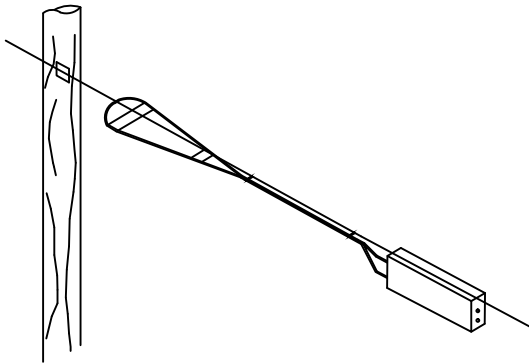
TYPICAL DETAIL "B"

IN-LINE SPLICE APPLICATION



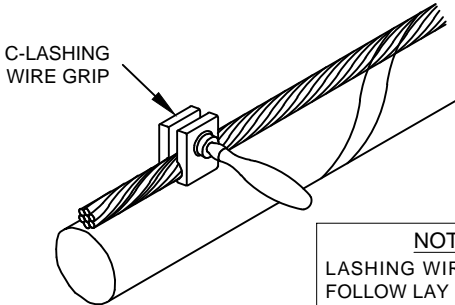
TYPICAL DETAIL "C"

BUTT SPLICE APPLICATION



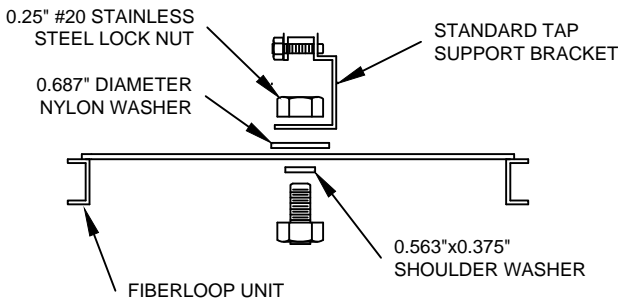
TYPICAL DETAIL "D"

LASHING WIRE GRIP AND CLAMP C-LASHING  
WIRE GRIP INSTALLED ON STRAND



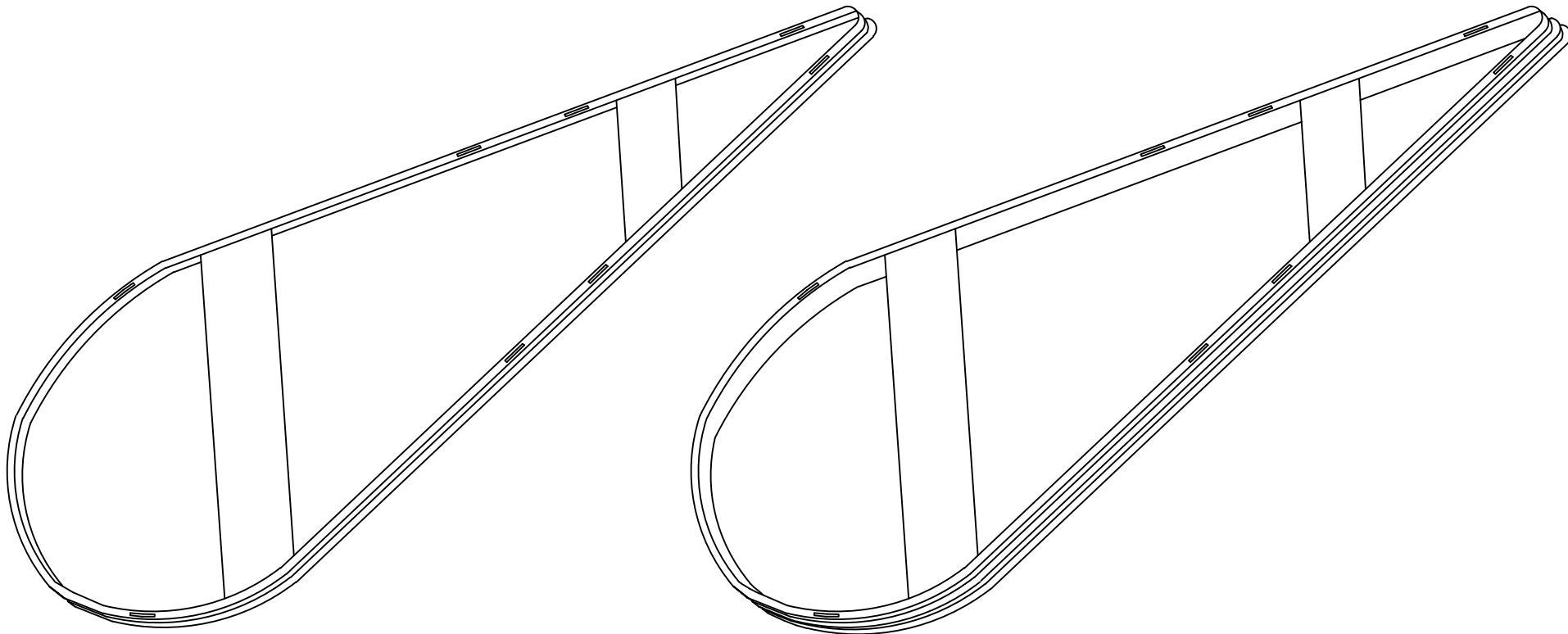
TYPICAL DETAIL "E"

HARDWARE KIT



TYPICAL DETAIL "F"

SINGLE & DOUBLE FIBER LOOPS



PROJECT: 1706ANBA.005

RICHMOND, TX

PEACAN GROVE TO FM - 723



McImetro  
ACCESS TRANSMISSION SERVICES  
CORPORATION

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC ROUTE

PEACAN GROVE TO FM - 723

RICHMOND, TX

DATE: 09/21/18

ENGINEER: ECC

DRAWN BY: T.P.G. (KIB)

REVISIONS			
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1.	-	-	-

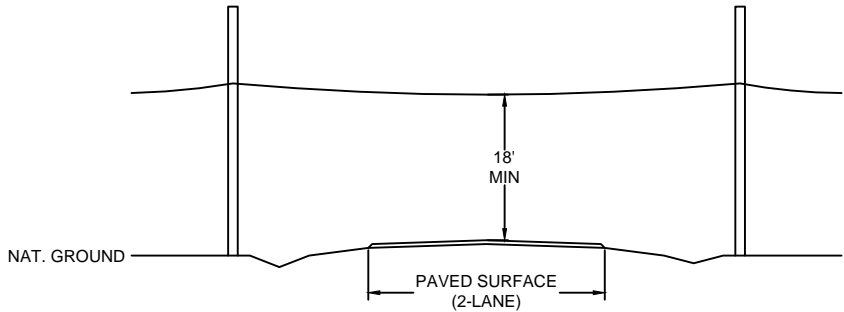
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SCALE	
HORIZONTAL:	1"= 50'
VERTICAL:	1"= N/A
MP	TO MP
SHEET 7C	OF 27
FILE: 1706ANBA.005 07CA	

TYPICAL CROSSING PROFILE DETAILS: AERIAL

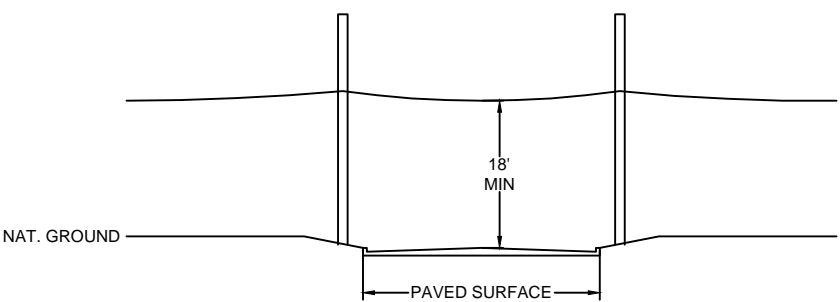
TYPICAL DETAIL "A"

TWO LANE - ASPHALT ROAD - NO CURB



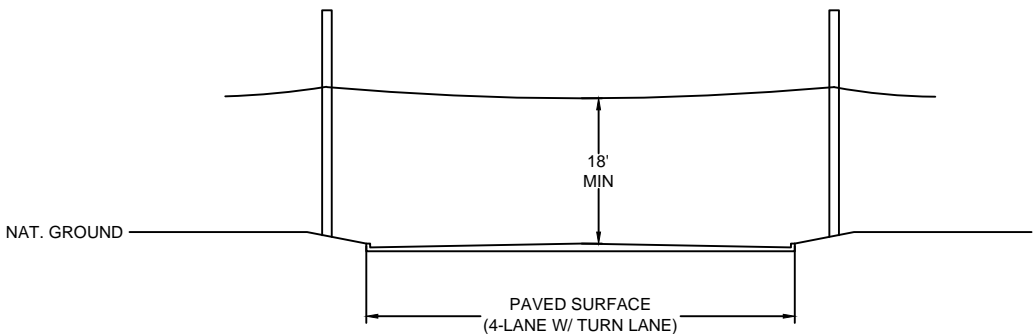
TYPICAL DETAIL "B"

TWO LANE - CURBED ROAD



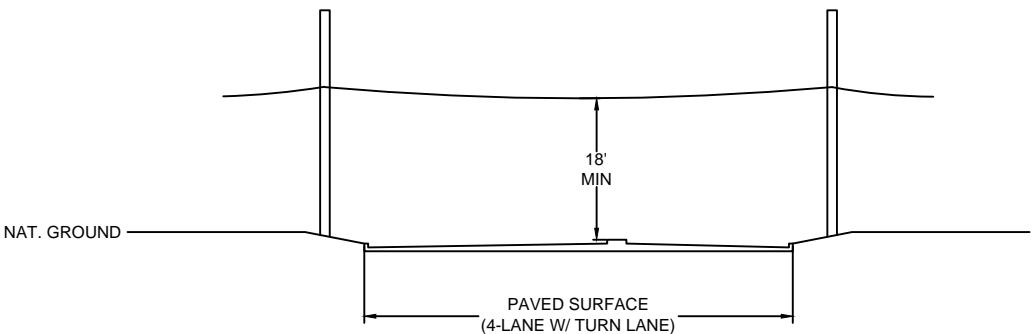
TYPICAL DETAIL "C"

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



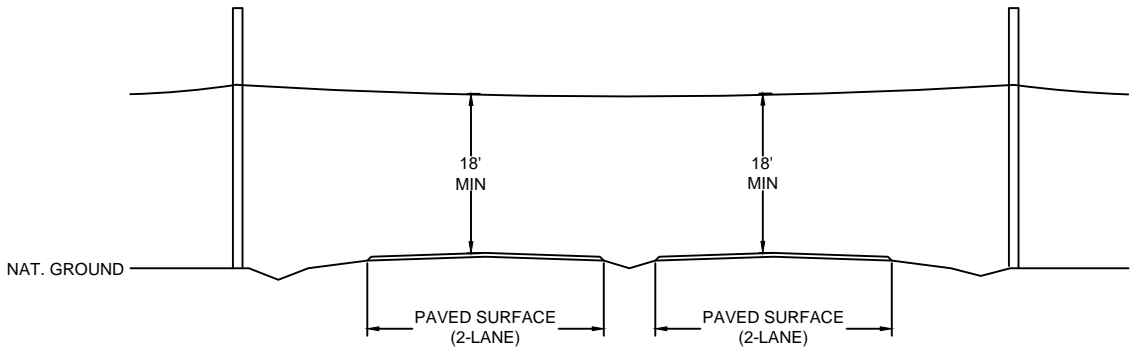
TYPICAL DETAIL "D"

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



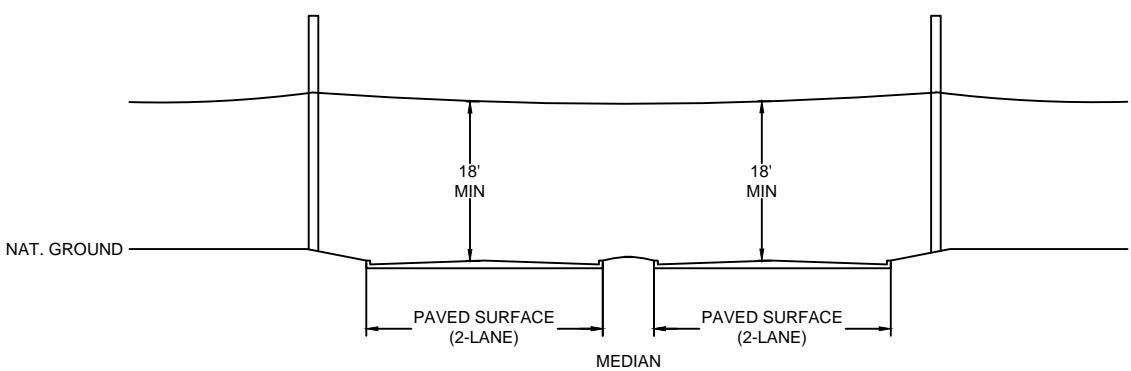
TYPICAL DETAIL "E"

4 LANE - SPLIT ASPHALT ROAD - NO CURB



TYPICAL DETAIL "F"

4 LANE - SPLIT CURBED ROAD



PROJECT: 1706ANBA.005

RICHMOND, TX

PEACAN GROVE TO FM - 723



McImetro  
ACCESS TRANSMISSION SERVICES  
CORPORATION

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC ROUTE

PEACAN GROVE TO FM - 723

RICHMOND, TX

DATE: 09/21/18

ENGINEER: ECC

DRAWN BY: T.P.G. (KIB)

REVISIONS			
No.	DATE	DESCRIPTION	BY
1.	-	-	-

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SCALE

HORIZONTAL: 1"= 50'

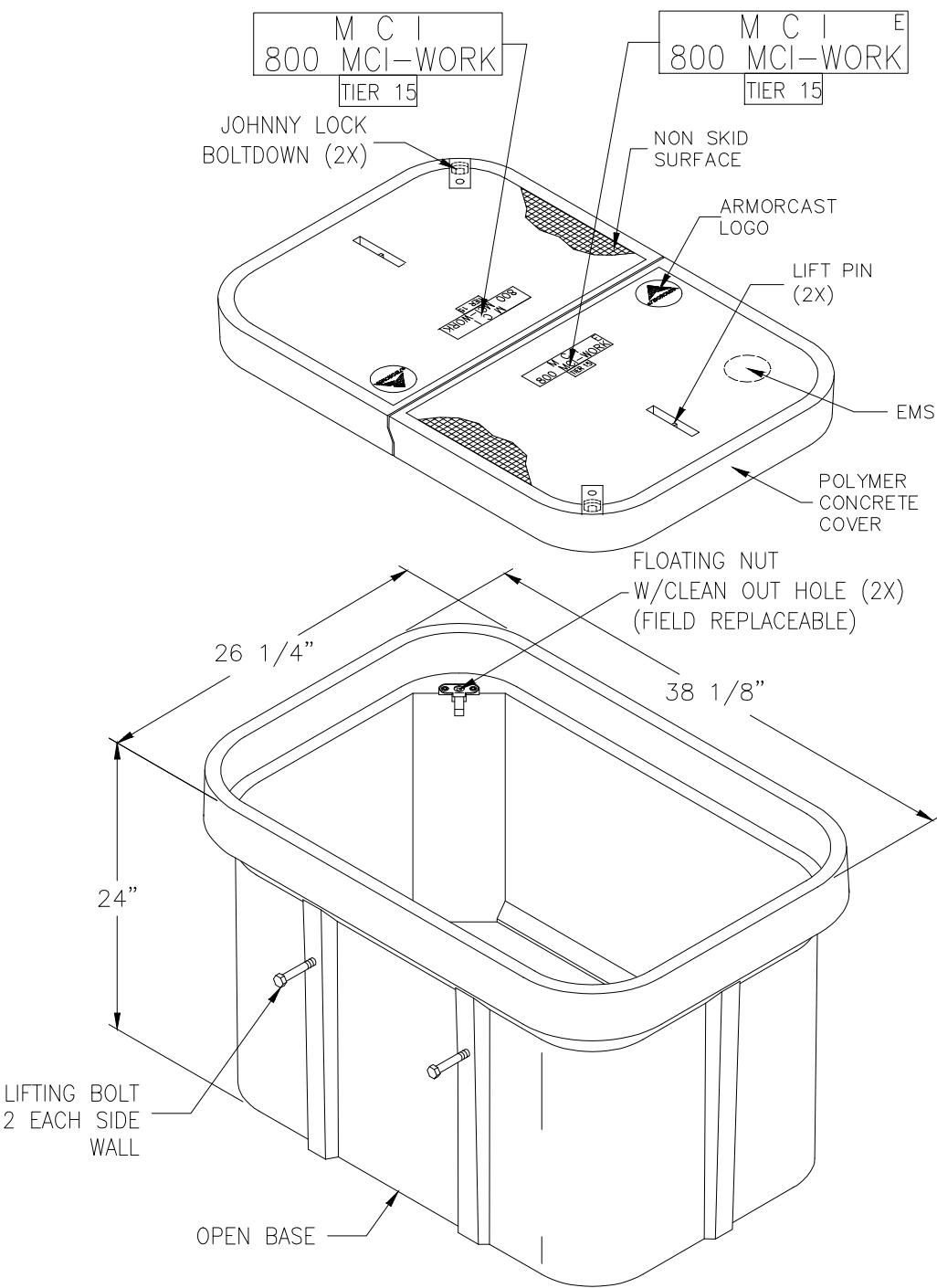
VERTICAL: 1"= N/A

MP \_\_\_\_\_ TO MP \_\_\_\_\_


SHEET 7D OF 27

FILE: 1706ANBA.005 07DA

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



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

FILE # A6-1974TAPMC14	 <b>ARMORCAST® PRODUCTS COMPANY</b> 13230 Satcoy Street, North Hollywood, CA 91605 (818) 982-3600	PART DESCRIPTION 24" X 36" X 24" POLYMER CONCRETE BOX ASSEMBLY			
		CUSTOMER VERIZON			
		DRAWN OA	DATE 10/17	SCALE NONE	MAX. LOAD TIER 15
		APPROV. WS	DATE 10/17	MATERIAL POLYMER CONCRETE	DRAWING NUMBER A6001974TAPMC14
		*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.*			

PROJECT: 1706ANBA.005  
RICHMOND, TX  
PEACAN GROVE TO FM - 723



MCI metro  
ACCESS TRANSMISSION SERVICES  
CORPORATION  
OUTSIDE PLANT CONSTRUCTION  
TITLE: FIBER OPTIC ROUTE  
PEACAN GROVE TO FM - 723  
RICHMOND, TX

DATE: 09/21/18  
ENGINEER: ECC  
DRAWN BY: T.P.G. (KIB)

REVISIONS			
No.	DATE	DESCRIPTION	BY
1.	-	-	-

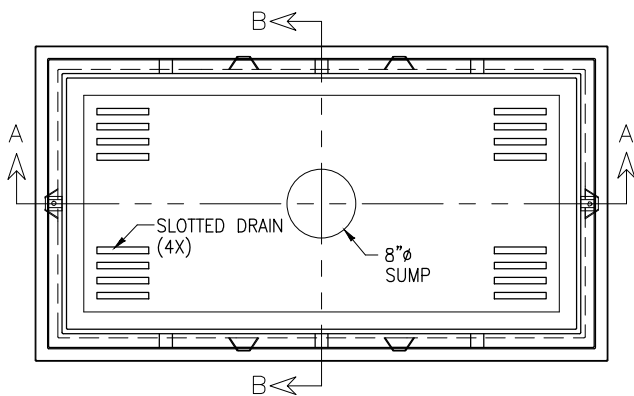
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SCALE  
HORIZONTAL: 1"= 50'  
VERTICAL: 1"= N/A  
MP \_\_\_\_\_ TO MP \_\_\_\_\_  
SHEET 8 OF 27  
FILE: 1706ANBA.005 08 A

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

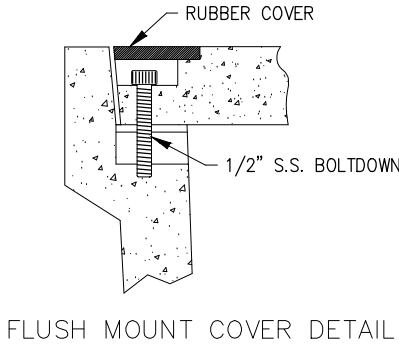
DETAIL "A"

LOCKING DEVICE  
CROSS SECTION



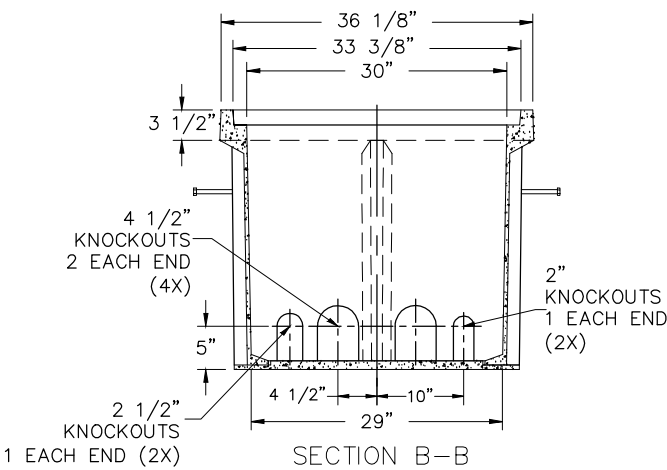
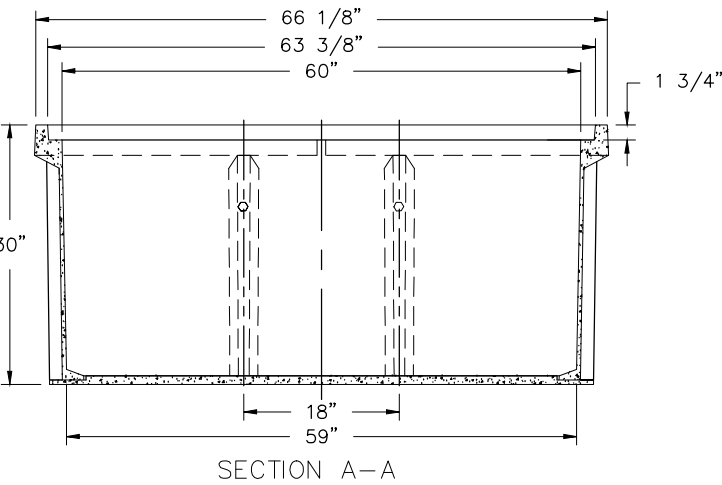
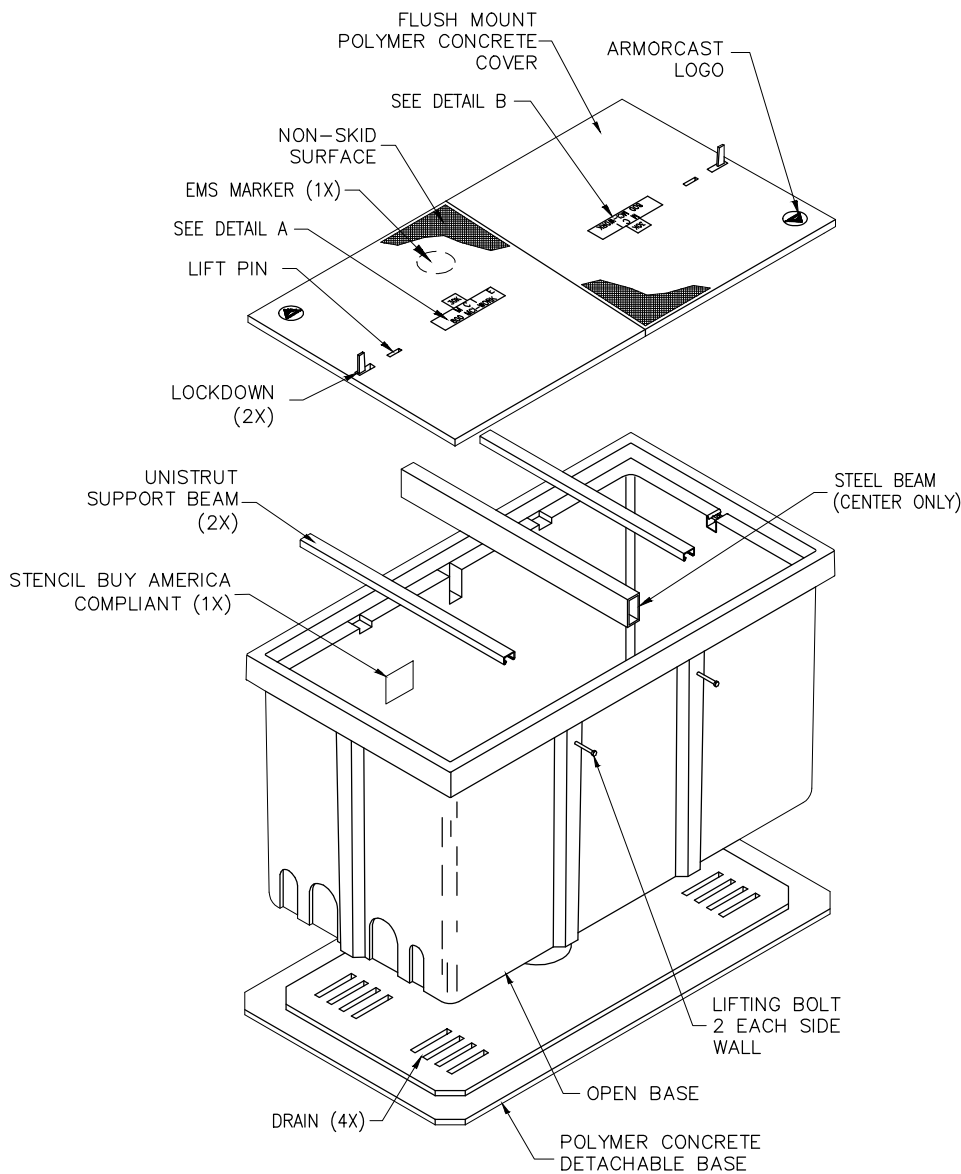
DETAIL "B"

FLUSH MOUNT  
COVER DETAIL



DETAIL "C"

EXPLODED ISOMETRIC DETAIL



30K  
M C I E  
800 MCI-WORK  
DETAIL A

30K  
M C I  
800 MCI-WORK  
DETAIL B

- SEALED PLASTIC BAG PLACED INSIDE VAULT TO CONTAIN
- | ITEM | QTY |  |
|------|-----|--|
| 1    | (1) | JOHNNY LOCK KEY                            |
| 2    | (2) | S.S. JOHNNY BOLTS W/FLAT WASHER.           |
| 3    |     | SHRINK WRAP COVERS TO FRAME FOR PACKAGING. |

**30K STANDARD HANDHOLE**  
**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**

PROJECT: 1706ANBA.005  
RICHMOND, TX  
PEACAN GROVE TO FM - 723



MCI metro  
ACCESS TRANSMISSION SERVICES  
CORPORATION  
OUTSIDE PLANT CONSTRUCTION  
TITLE: FIBER OPTIC ROUTE  
PEACAN GROVE TO FM - 723  
RICHMOND, TX

DATE: 09/21/18  
ENGINEER: ECC  
DRAWN BY: T.P.G. (KIB)

REVISIONS			
No.	DATE	DESCRIPTION	BY
1.	-	-	-

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CONTRACT, THESE DRAWINGS AND SPECIFICATIONS  
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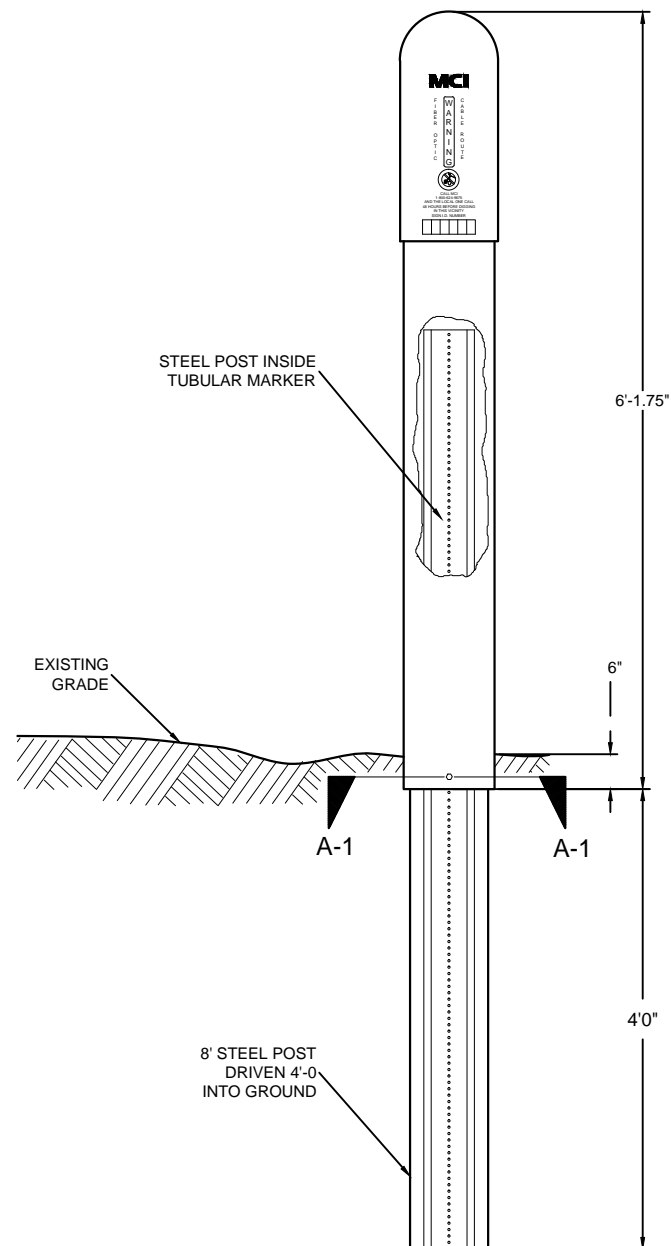
**SCALE**  
HORIZONTAL: 1"= 50'  
VERTICAL: 1"= N/A  
MP \_\_\_\_\_ TO MP \_\_\_\_\_  
SHEET 8A OF 27  
FILE: 1706ANBA.005 08AA

## TUBULAR MARKER DETAILS

DETAIL "A"

---

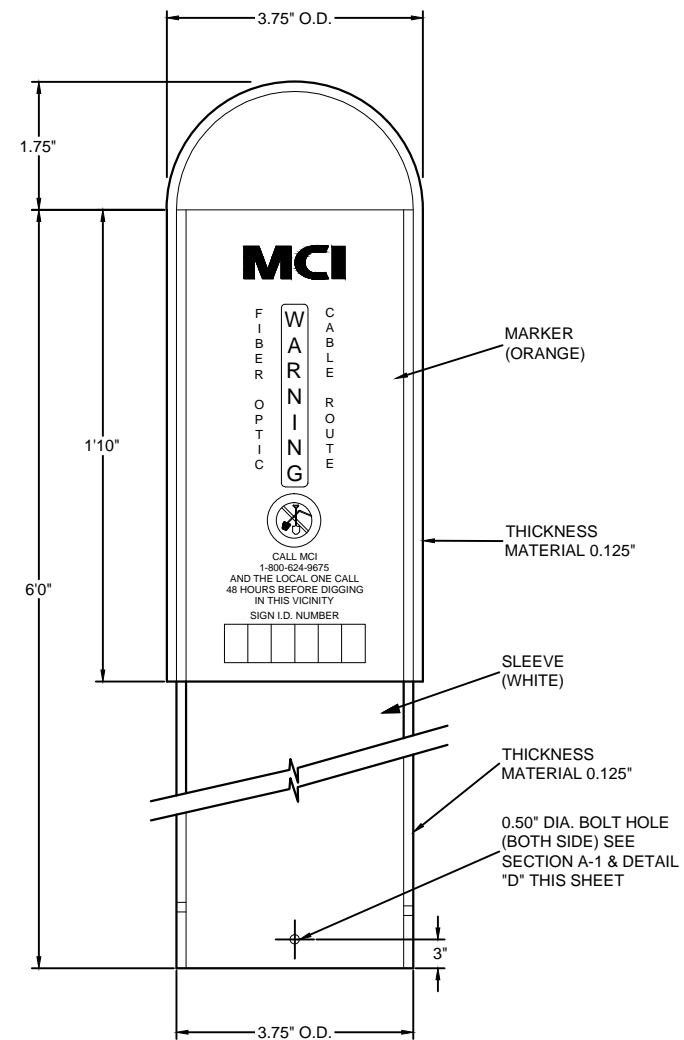
INSTALLATION VIEW



DETAIL "B"

---

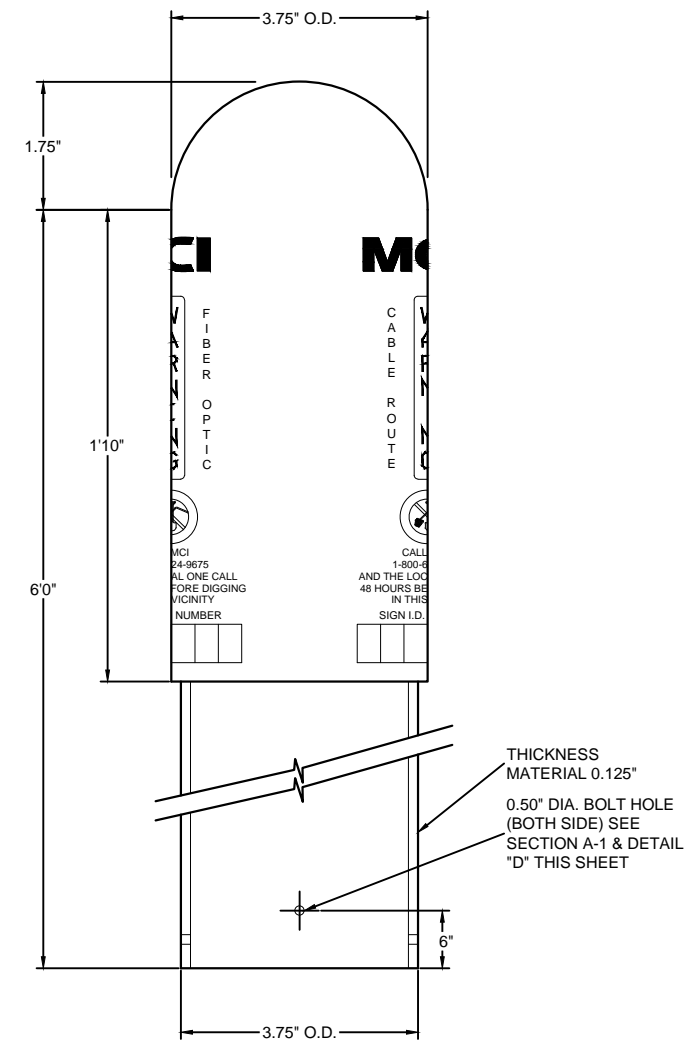
FRONT VIEW



DETAIL "C"

---

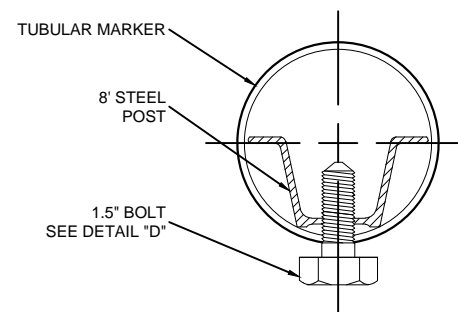
SIDE VIEW



SECTION A-1

---

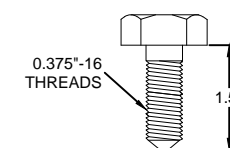
TUBULAR MARKER



DETAIL "D"

---

1.5" BOLT



PROJECT: 1706ANBA.005

RICHMOND, TX

PEACAN GROVE TO FM - 723



<p>MCImetro ACCESS TRANSMISSION SERVICES CORPORATION</p>	<p>OUTSIDE PLANT CONSTRUCTION</p>
<p>TITLE: FIBER OPTIC ROUTE PEACAN GROVE TO FM - 723 RICHMOND, TX</p>	

DATE: 09/21/18
ENGINEER: ECC
DRAWN BY: T.P.G. (KIB)

[illegible]

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SCALE

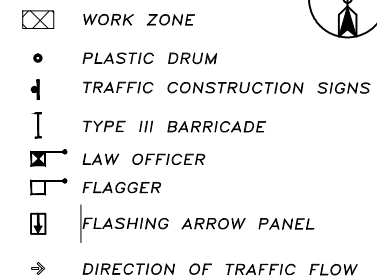
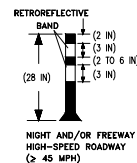
HORIZONTAL: 1"= 50'

VERTICAL: 1"= N/A

MP	TO MP
----	-------

SHEET 9 OF 27

FILE: 1706ANBA.005 09 A



PEACAN GROVE TO FM - 723



**RICHMOND, TX**

[illegible]

FILE: 1706ANBA.005 09AA

**NOTE:**  
SUBJECT TO NO PAVEMENT EXCAVATION.  
CONTRACTOR RESPONSIBLE TO KEEP SIDEWALK AREAS  
OPEN AT ALL TIMES DURING CONSTRUCTION.



NOTE:  
CONTRACTOR TO MAINTAIN 60" MIN. DEPTH CROSSING  
OF ROADWAYS, DRIVEWAYS, AND CULVERTS.

NOTE:  
MAINTAIN 4' MINIMUM  
SEPARATION FROM EOP/BOC.

RICHMOND, TX  
FORT BEND COUNTY

CAUTION !!!!  
CONTRACTOR TO LOCATE &  
VERIFY ALL EXISTING UTILITIES  
PRIOR TO CONSTRUCTION

CAUTION!!!  
EXIST. BURIED FIBER, TELEPHONE, CATV, GAS, ELECTRIC, WATER,  
SANITARY SEWER & STORM SEWER FACILITIES IN CONSTRUCTION AREA  
AND HAVE NOT BEEN FIELD LOCATED, CONTRACTOR TO VERIFY EXACT  
LOCATION AND DEPTH PRIOR TO ANY DIGGING AND/OR BORING.

NOTE:  
PROP. 4'X4' BORE PITS  
AT EACH HH LOCATION



PROJECT: 1706ANBA.005	
RICHMOND, TX	
PEACAN GROVE TO FM - 723	
CLARIFICATION NO.	QUANTITY
PLACE (24"X36"X24") HH	1
PLACE (17"X30"X36") HH	-
PROP. 1-2" HDPE	596'
PULL 1-144F (A) CABLE	746'
PULL 1-144F (DE) CABLE	-
PLACE 6M STRAND	-
LASH 1-144F CABLE	-
DOWN GUY & ANCHOR	-
RISER: 2" U GUARD	-
PLACE MARKER	1



MCI metro ACCESS TRANSMISSION SERVICES CORPORATION	OUTSIDE PLANT CONSTRUCTION	TITLE: FIBER OPTIC ROUTE PEACAN GROVE TO FM - 723 RICHMOND, TX

DATE: 09/21/18			
ENGINEER: ECC			
DRAWN BY: T.P.G. (KIB)			
REVISIONS			
No.	DATE	DESCRIPTION	BY
1.	-	-	-

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REPRODUCED, COPIED, OR USED FOR ANY  
PURPOSE WITHOUT SPECIFIC WRITTEN PERMISSION.

SCALE	
HORIZONTAL:	1"= 50'
VERTICAL:	1"= N/A
MP _____ TO MP _____	
SHEET 10 OF 27	
FILE: 1706ANBA.005 010	

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.

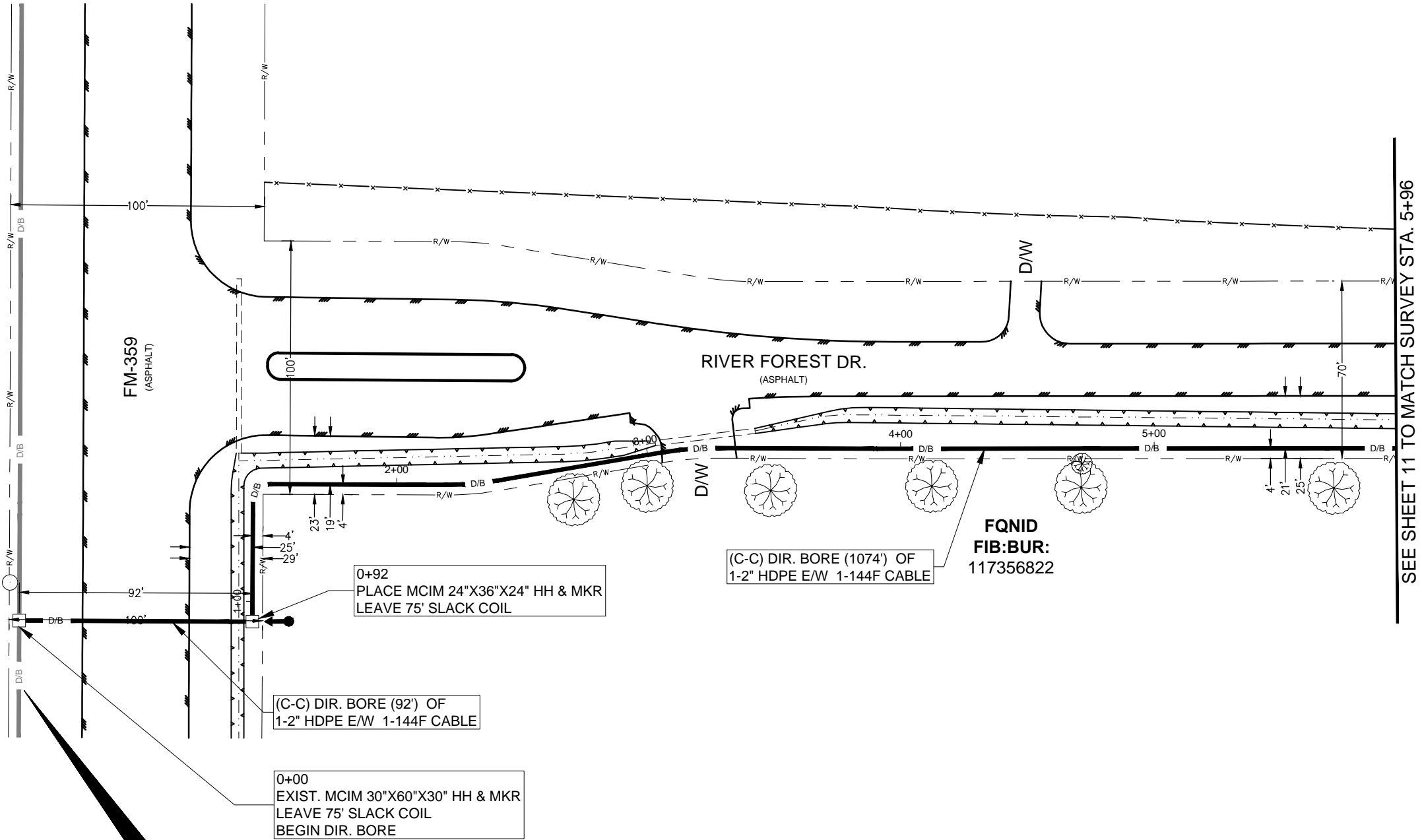
SEE PROJECT :  
PECANGROVE\_OVEREASY\_1706ANBE0005  
SHEET 38 OF 129 FOR BACKBONE TIE-IN

NOTE:  
THE CONTRACTOR SHALL FIELD VERIFY AND LOCATE  
ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION."

RIGHT OF WAY LINES WERE ESTABLISHED BY RESEARCH OF PUBLIC INFORMATION.  
NO BOUNDARY SURVEY OR PROPERTY LINE SURVEY WAS ESTABLISHED. 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.



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



NOTE:  
CONTRACTOR TO MAINTAIN 60" MIN. DEPTH CROSSING  
OF ROADWAYS, DRIVEWAYS, AND CULVERTS.

NOTE:  
MAINTAIN 4' MINIMUM  
SEPARATION FROM EOP/BOC.

RICHMOND, TX  
FORT BEND COUNTY

CAUTION !!!!  
CONTRACTOR TO LOCATE &  
VERIFY ALL EXISTING UTILITIES  
PRIOR TO CONSTRUCTION

CAUTION!!!  
EXIST. BURIED FIBER, TELEPHONE, CATV, GAS, ELECTRIC, WATER,  
SANITARY SEWER & STORM SEWER FACILITIES IN CONSTRUCTION AREA  
AND HAVE NOT BEEN FIELD LOCATED, CONTRACTOR TO VERIFY EXACT  
LOCATION AND DEPTH PRIOR TO ANY DIGGING AND/OR BORING.

NOTE:  
PROP. 4'X4' BORE PITS  
AT EACH HH LOCATION



PROJECT: 1706ANBA.005	
RICHMOND, TX	
PEACAN GROVE TO FM - 723	
CLARIFICATION NO.	QUANTITY
PLACE (24"X36"X24") HH	1
PLACE (17"X30"X36") HH	-
PROP. 1-2" HDPE	623'
PULL 1-144F (A) CABLE	698'
PULL 1-144F (DE) CABLE	-
PLACE 6M STRAND	-
LASH 1-144F CABLE	-
DOWN GUY & ANCHOR	-
RISER: 2" U GUARD	-
PLACE MARKER	1

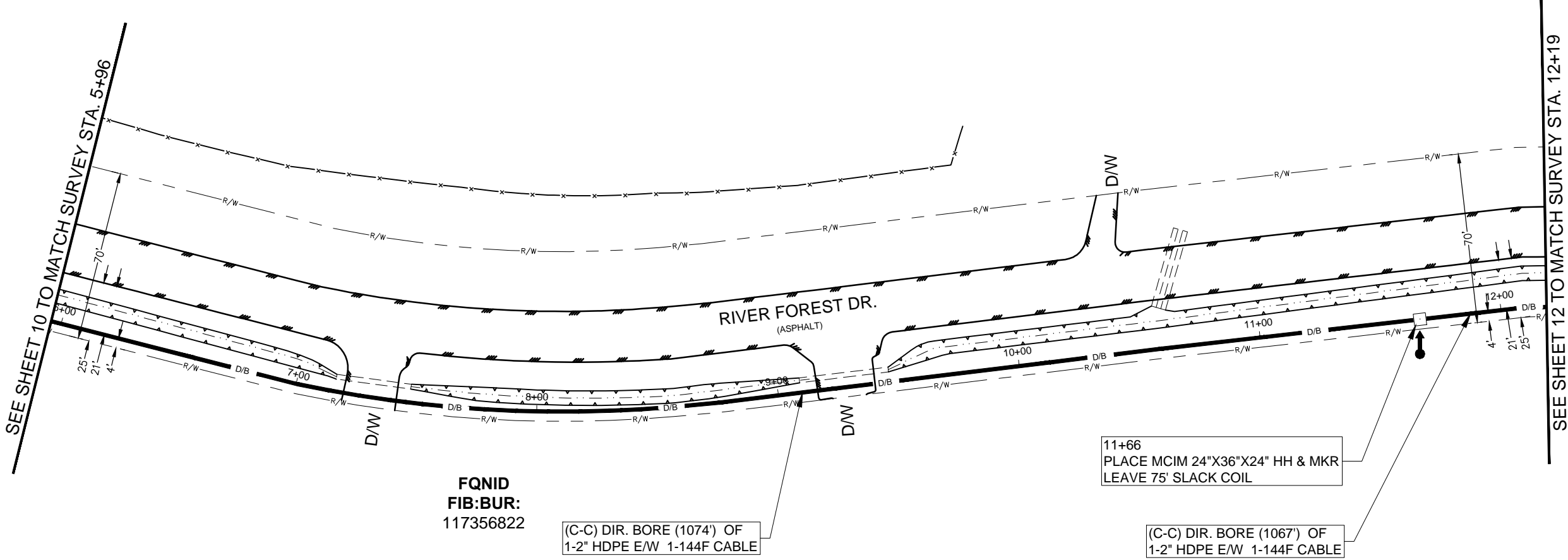


McImetro ACCESS TRANSMISSION SERVICES CORPORATION	OUTSIDE PLANT CONSTRUCTION	TITLE: FIBER OPTIC ROUTE PEACAN GROVE TO FM - 723 RICHMOND, TX

DATE: 09/21/18			
ENGINEER: ECC			
DRAWN BY: T.P.G. (KIB)			
REVISIONS			
No.	DATE	DESCRIPTION	BY
1.	-	-	-

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CONTRACT, THESE DRAWINGS AND SPECIFICATIONS  
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PURPOSE WITHOUT SPECIFIC WRITTEN PERMISSION.

SCALE	
HORIZONTAL:	1"= 50'
VERTICAL:	1"= N/A
MP	TO MP
SHEET	11 OF 27
FILE: 1706ANBA.005 011	



UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE RECORDS AND  
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UTILITIES PRIOR TO CONSTRUCTION. COMPLETE REPAIR OF ANY AND ALL  
DAMAGES INCURRED SHALL BE AT THE EXPENSE OF THE CONTRACTOR.

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ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION."

RIGHT OF WAY LINES WERE ESTABLISHED BY RESEARCH OF PUBLIC INFORMATION.  
NO BOUNDARY SURVEY OR PROPERTY LINE SURVEY WAS ESTABLISHED. 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.

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

NOTE:  
CONTRACTOR TO MAINTAIN 60" MIN. DEPTH CROSSING  
OF ROADWAYS, DRIVEWAYS, AND CULVERTS.

NOTE:  
MAINTAIN 4' MINIMUM  
SEPARATION FROM EOP/BOC.

RICHMOND, TX  
FORT BEND COUNTY

CAUTION !!!!  
CONTRACTOR TO LOCATE &  
VERIFY ALL EXISTING UTILITIES  
PRIOR TO CONSTRUCTION

CAUTION!!!  
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NOTE:  
PROP. 4'X4' BORE PITS  
AT EACH HH LOCATION



PROJECT: 1706ANBA.005	
RICHMOND, TX	
PEACAN GROVE TO FM - 723	
CLARIFICATION NO.	QUANTITY
PLACE (24"X36"X24") HH	-
PLACE (17"X30"X36") HH	-
PROP. 1-2" HDPE	663'
PULL 1-144F (A) CABLE	663'
PULL 1-144F (DE) CABLE	-
PLACE 6M STRAND	-
LASH 1-144F CABLE	-
DOWN GUY & ANCHOR	-
RISER: 2" U GUARD	-
PLACE MARKER	-

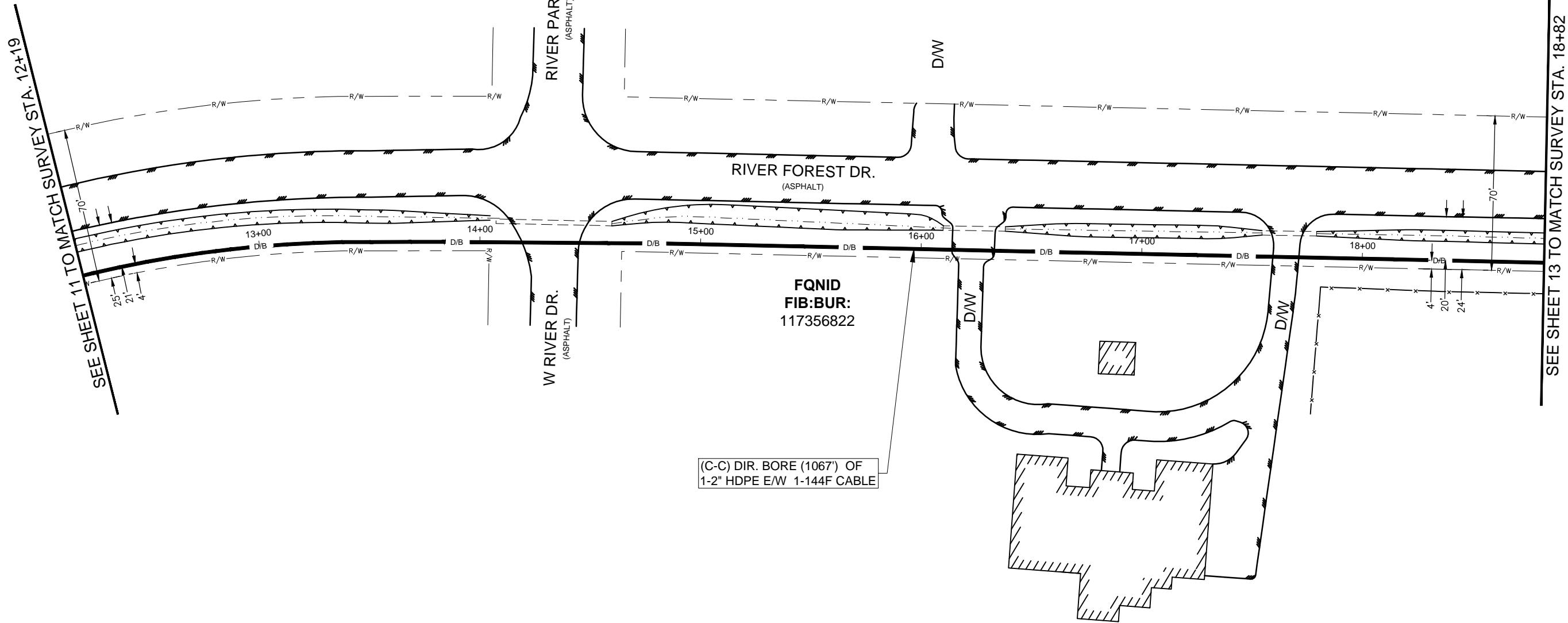


McMetro ACCESS TRANSMISSION SERVICES CORPORATION	OUTSIDE PLANT CONSTRUCTION	TITLE: FIBER OPTIC ROUTE PEACAN GROVE TO FM - 723 RICHMOND, TX

DATE: 09/21/18			
ENGINEER: ECC			
DRAWN BY: T.P.G. (KIB)			
REVISIONS			
No.	DATE	DESCRIPTION	BY
1.	-	-	-

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PURPOSE WITHOUT SPECIFIC WRITTEN PERMISSION.

SCALE	
HORIZONTAL:	1"= 50'
VERTICAL:	1"= N/A
MP _____ TO MP _____	
SHEET 12 OF 27	
FILE: 1706ANBA.005 012	



UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE RECORDS AND  
FIELD OBSERVATIONS BUT ARE NOT NECESSARILY EXACT. IT IS THE CONTRACTORS  
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TO CONSTRUCTION.

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

NOTE:  
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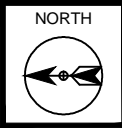
NOTE:  
MAINTAIN 4' MINIMUM  
SEPARATION FROM EOP/BOC.

RICHMOND, TX  
FORT BEND COUNTY

CAUTION !!!!  
CONTRACTOR TO LOCATE &  
VERIFY ALL EXISTING UTILITIES  
PRIOR TO CONSTRUCTION

CAUTION!!!  
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NOTE:  
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AT EACH HH LOCATION



PROJECT: 1706ANBA.005	
RICHMOND, TX	
PEACAN GROVE TO FM - 723	
CLARIFICATION NO.	QUANTITY
PLACE (24"X36"X24") HH	1
PLACE (17"X30"X36") HH	-
PROP. 1-2" HDPE	652'
PULL 1-144F (A) CABLE	727
PULL 1-144F (DE) CABLE	-
PLACE 6M STRAND	-
LASH 1-144F CABLE	-
DOWN GUY & ANCHOR	-
RISER: 2" U GUARD	-
PLACE MARKER	1

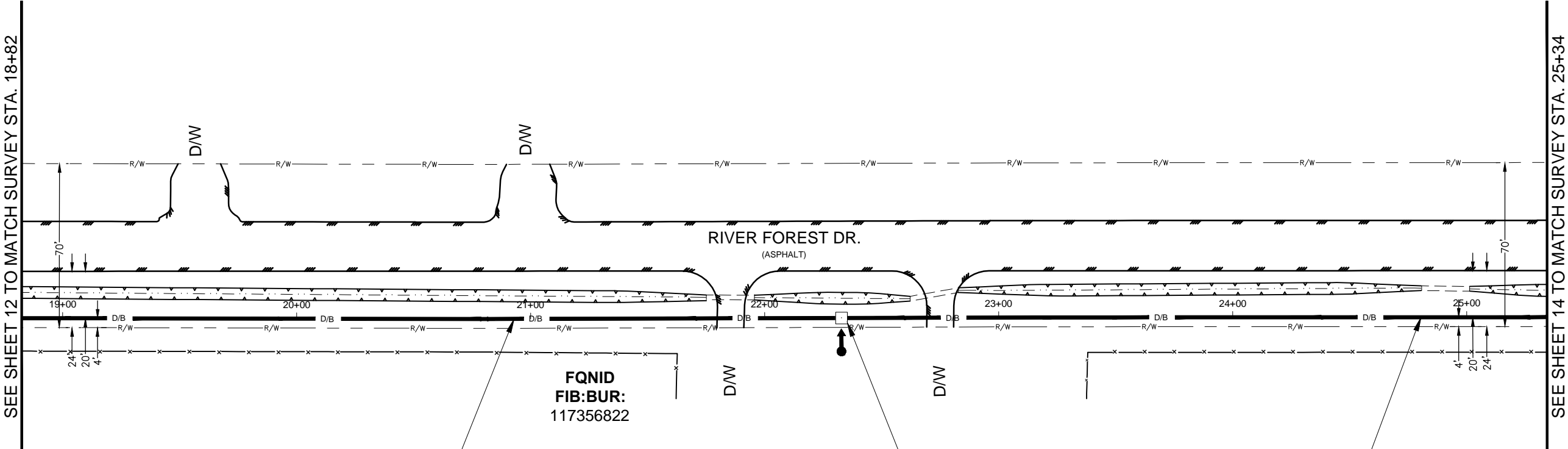


MCI metro ACCESS TRANSMISSION SERVICES CORPORATION	OUTSIDE PLANT CONSTRUCTION	TITLE: FIBER OPTIC ROUTE PEACAN GROVE TO FM - 723 RICHMOND, TX

DATE: 09/21/18			
ENGINEER: ECC			
DRAWN BY: T.P.G. (KIB)			
REVISIONS			
No.	DATE	DESCRIPTION	BY
1.	-	-	-

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SCALE	
HORIZONTAL:	1"= 50'
VERTICAL:	1"= N/A
MP _____ TO MP _____	
SHEET 13 OF 27	
FILE: 1706ANBA.005 013	



UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE RECORDS AND  
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RICHMOND, TX  
FORT BEND COUNTY

CAUTION !!!!  
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PRIOR TO CONSTRUCTION

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NOTE:  
PROP. 4'X4' BORE PITS  
AT EACH HH LOCATION

NORTH



PROJECT: 1706ANBA.005  
RICHMOND, TX  
PEACAN GROVE TO FM - 723

CLARIFICATION NO.	QUANTITY
PLACE (24"X36"X24") HH	-
PLACE (17"X30"X36") HH	-
PROP. 1-2" HDPE	669'
PULL 1-144F (A) CABLE	669'
PULL 1-144F (DE) CABLE	-
PLACE 6M STRAND	-
LASH 1-144F CABLE	-
DOWN GUY & ANCHOR	-
RISER: 2" U GUARD	-
PLACE MARKER	-



McImetro  
ACCESS TRANSMISSION SERVICES  
CORPORATION  
OUTSIDE PLANT CONSTRUCTION  
TITLE: FIBER OPTIC ROUTE  
PEACAN GROVE TO FM - 723  
RICHMOND, TX

DATE: 09/21/18  
ENGINEER: ECC  
DRAWN BY: T.P.G. (KIB)

REVISIONS			
No.	DATE	DESCRIPTION	BY
1.	-	-	-

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PURPOSE WITHOUT SPECIFIC WRITTEN PERMISSION.

SCALE

HORIZONTAL: 1"= 50'  
VERTICAL: 1"= N/A  
MP \_\_\_\_\_ TO MP \_\_\_\_\_  
SHEET 14 OF 27  
FILE: 1706ANBA.005 014

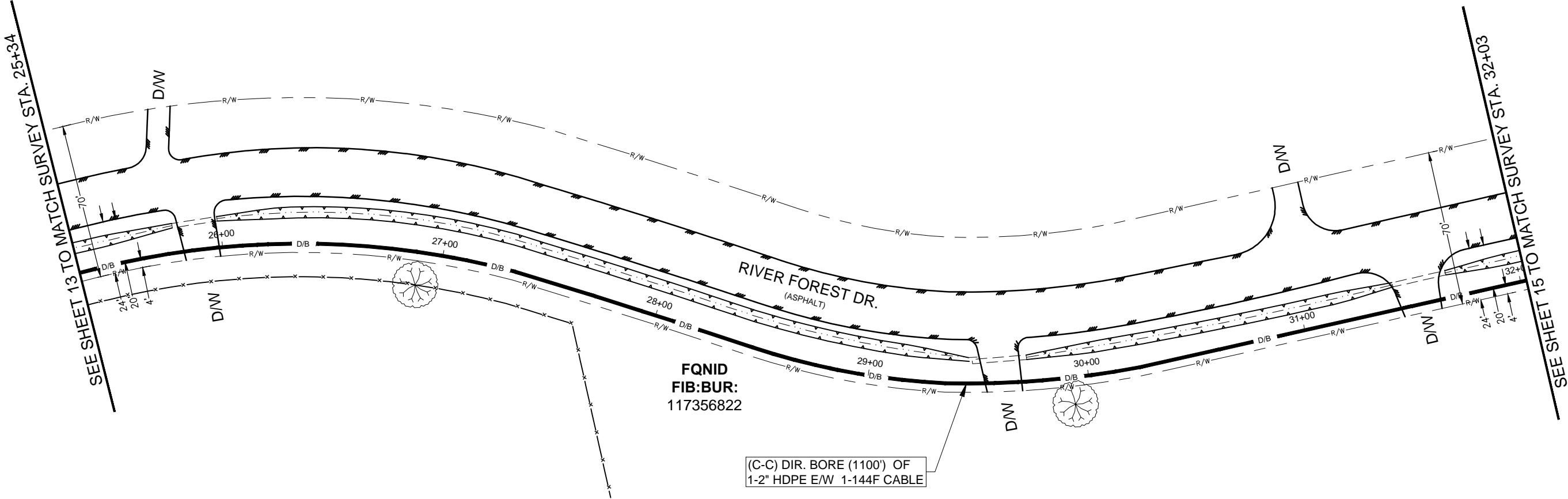
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NOTE:  
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RICHMOND, TX  
FORT BEND COUNTY

CAUTION !!!!  
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NOTE:  
PROP. 4'X4' BORE PITS  
AT EACH HH LOCATION

NORTH



PROJECT: 1706ANBA.005  
RICHMOND, TX  
PEACAN GROVE TO FM - 723

CLARIFICATION NO.	QUANTITY
PLACE (24"X36"X24") HH	1
PLACE (17"X30"X36") HH	-
PROP. 1-2" HDPE	605'
PULL 1-144F (A) CABLE	680'
PULL 1-144F (DE) CABLE	-
PLACE 6M STRAND	-
LASH 1-144F CABLE	-
DOWN GUY & ANCHOR	-
RISER: 2" U GUARD	-
PLACE MARKER	1



McImetro  
ACCESS TRANSMISSION SERVICES  
CORPORATION

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC ROUTE  
PEACAN GROVE TO FM - 723  
RICHMOND, TX

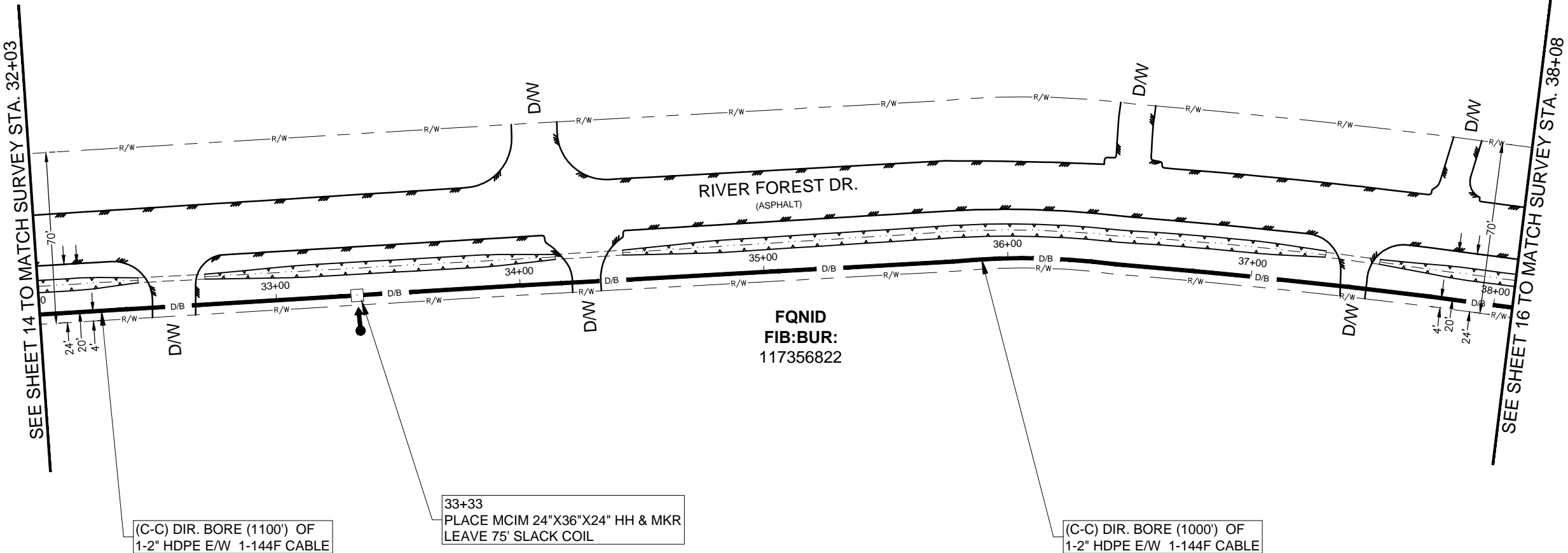
DATE: 09/21/18  
ENGINEER: ECC  
DRAWN BY: T.P.G. (KIB)

REVISIONS			
No.	DATE	DESCRIPTION	BY
1.	-	-	-

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SCALE

HORIZONTAL: 1"= 50'  
VERTICAL: 1"= N/A  
MP \_\_\_\_\_ TO MP \_\_\_\_\_  
SHEET 15 OF 27  
FILE: 1706ANBA.005 015



UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE RECORDS AND  
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CALL BEFORE YOU DIG  
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48 HOURS NOTICE REQUIRED

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NOTE:  
MAINTAIN 4' MINIMUM  
SEPARATION FROM EOP/BOC.

RICHMOND, TX  
FORT BEND COUNTY

CAUTION !!!!  
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PRIOR TO CONSTRUCTION

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NOTE:  
PROP. 4'X4' BORE PITS  
AT EACH HH LOCATION



PROJECT: 1706ANBA.005	
RICHMOND, TX	
PEACAN GROVE TO FM - 723	
CLARIFICATION NO.	QUANTITY
PLACE (24"X36"X24") HH	1
PLACE (17"X30"X36") HH	-
PROP. 1-2" HDPE	650'
PULL 1-144F (A) CABLE	725'
PULL 1-144F (DE) CABLE	-
PLACE 6M STRAND	-
LASH 1-144F CABLE	-
DOWN GUY & ANCHOR	-
RISER: 2" U GUARD	-
PLACE MARKER	1



MCI metro ACCESS TRANSMISSION SERVICES CORPORATION	OUTSIDE PLANT CONSTRUCTION
	TITLE: FIBER OPTIC ROUTE
	PEACAN GROVE TO FM - 723 RICHMOND, TX

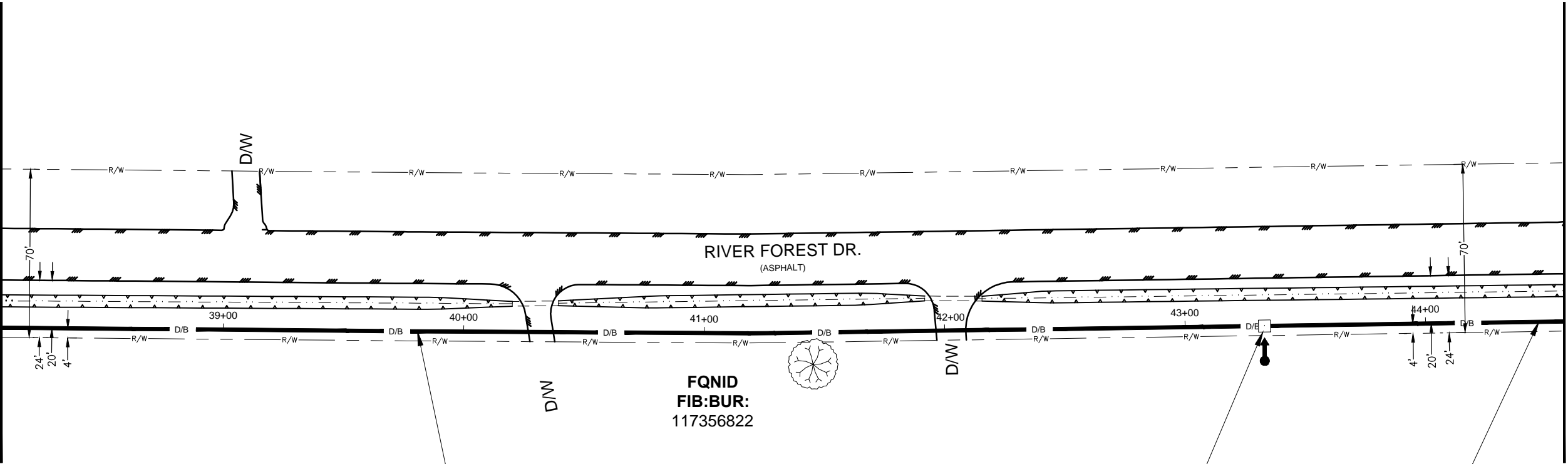
DATE: 09/21/18  
ENGINEER: ECC  
DRAWN BY: T.P.G. (KIB)

REVISIONS			
No.	DATE	DESCRIPTION	BY
1.	-	-	-

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SCALE	
HORIZONTAL:	1"= 50'
VERTICAL:	1"= N/A
MP _____	TO MP _____
SHEET _____	OF _____
FILE: 1706ANBA.005 016	

SEE SHEET 15 TO MATCH SURVEY STA. 38+08



SEE SHEET 17 TO MATCH SURVEY STA. 44+58

FQPID  
FIB: BUR:  
117356822

(C-C) DIR. BORE (1000') OF  
1-2" HDPE E/W 1-144F CABLE

43+33  
PLACE MCIM 24"X36"X24" HH & MKR  
LEAVE 75' SLACK COIL

(C-C) DIR. BORE (1110') OF  
1-2" HDPE E/W 1-144F CABLE

UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE RECORDS AND  
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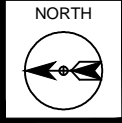
NOTE:  
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RICHMOND, TX  
FORT BEND COUNTY

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NOTE:  
PROP. 4'X4' BORE PITS  
AT EACH HH LOCATION



PROJECT: 1706ANBA.005	
RICHMOND, TX	
PEACAN GROVE TO FM - 723	
CLARIFICATION NO.	QUANTITY
PLACE (24"X36"X24") HH	-
PLACE (17"X30"X36") HH	-
PROP. 1-2" HDPE	598'
PULL 1-144F (A) CABLE	598'
PULL 1-144F (DE) CABLE	-
PLACE 6M STRAND	-
LASH 1-144F CABLE	-
DOWN GUY & ANCHOR	-
RISER: 2" U GUARD	-
PLACE MARKER	-

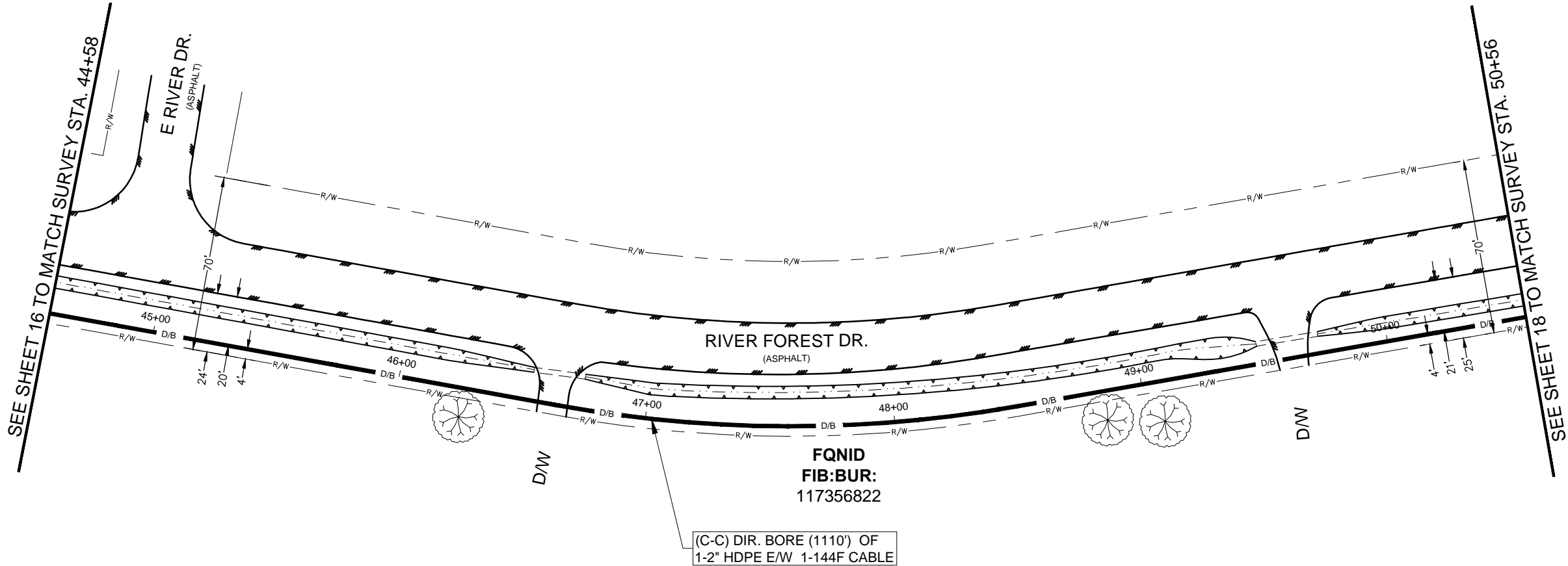


MCI metro ACCESS TRANSMISSION SERVICES CORPORATION	OUTSIDE PLANT CONSTRUCTION
	TITLE: FIBER OPTIC ROUTE
	PEACAN GROVE TO FM - 723 RICHMOND, TX

DATE: 09/21/18			
ENGINEER: ECC			
DRAWN BY: T.P.G. (KIB)			
REVISIONS			
No.	DATE	DESCRIPTION	BY
1.	-	-	-

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SCALE	
HORIZONTAL:	1"= 50'
VERTICAL:	1"= N/A
MP _____	TO MP _____
SHEET 17	OF 27
FILE: 1706ANBA.005 017	



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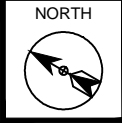
NOTE:  
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SEPARATION FROM EOP/BOC.

RICHMOND, TX  
FORT BEND COUNTY

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NOTE:  
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AT EACH HH LOCATION



PROJECT: 1706ANBA.005	
RICHMOND, TX	
PEACAN GROVE TO FM - 723	
CLARIFICATION NO.	QUANTITY
PLACE (24"X36"X24") HH	1
PLACE (17"X30"X36") HH	-
PROP. 1-2" HDPE	609'
PULL 1-144F (A) CABLE	684'
PULL 1-144F (DE) CABLE	-
PLACE 6M STRAND	-
LASH 1-144F CABLE	-
DOWN GUY & ANCHOR	-
RISER: 2" U GUARD	-
PLACE MARKER	1

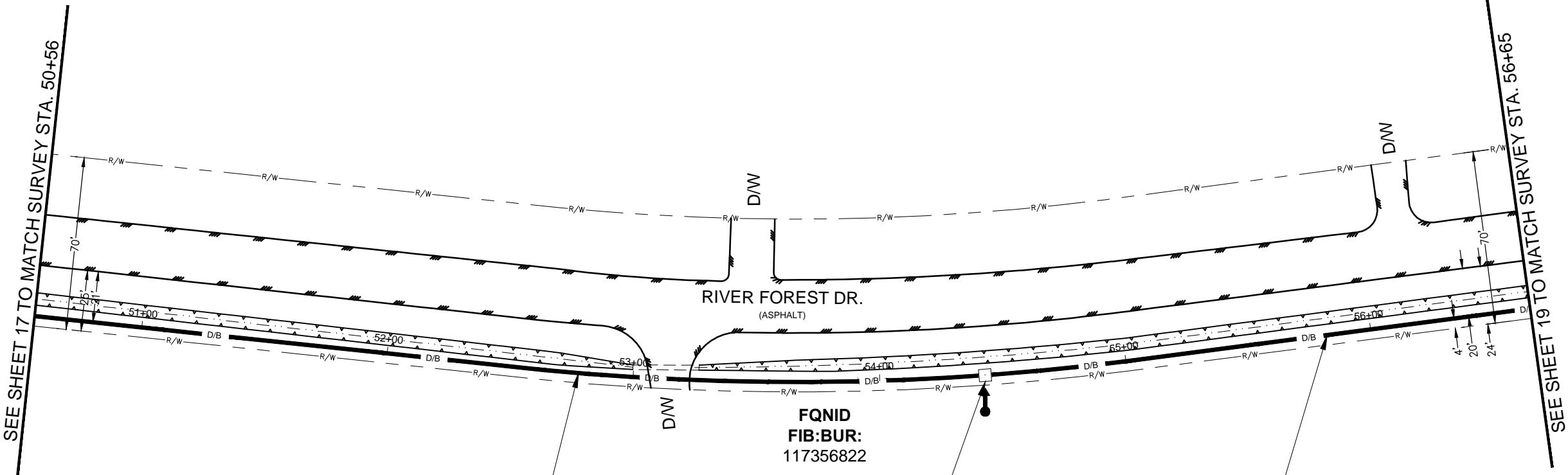


MCI metro ACCESS TRANSMISSION SERVICES CORPORATION	OUTSIDE PLANT CONSTRUCTION
	TITLE: FIBER OPTIC ROUTE
	PEACAN GROVE TO FM - 723 RICHMOND, TX

DATE: 09/21/18			
ENGINEER: ECC			
DRAWN BY: T.P.G. (KIB)			
REVISIONS			
No.	DATE	DESCRIPTION	BY
1.	-	-	-

EXCEPT AS MAY BE OTHERWISE PROVIDED BY  
CONTRACT, THESE DRAWINGS AND SPECIFICATIONS  
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ISSUED IN STRICT CONFIDENCE AND SHALL NOT BE  
REPRODUCED, COPIED, OR USED FOR ANY  
PURPOSE WITHOUT SPECIFIC WRITTEN PERMISSION.

SCALE	
HORIZONTAL:	1"= 50'
VERTICAL:	1"= N/A
MP _____	TO MP _____
SHEET 18	OF 27
FILE: 1706ANBA.005 018	



(C-C) DIR. BORE (1110') OF  
1-2" HDPE E/W 1-144F CABLE

54+43  
PLACE MCIM 24"X36"X24" HH & MKR  
LEAVE 75' SLACK COIL

(C-C) DIR. BORE (1000') OF  
1-2" HDPE E/W 1-144F CABLE

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.

NOTE:  
THE CONTRACTOR SHALL FIELD VERIFY AND LOCATE  
ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION."

RIGHT OF WAY LINES WERE ESTABLISHED BY RESEARCH OF PUBLIC INFORMATION.  
NO BOUNDARY SURVEY OR PROPERTY LINE SURVEY WAS ESTABLISHED. 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.

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

NOTE:  
CONTRACTOR TO MAINTAIN 60" MIN. DEPTH CROSSING  
OF ROADWAYS, DRIVEWAYS, AND CULVERTS.

NOTE:  
MAINTAIN 4" MINIMUM  
SEPARATION FROM EOP/BOC.

RICHMOND, TX  
FORT BEND COUNTY

CAUTION !!!!  
CONTRACTOR TO LOCATE &  
VERIFY ALL EXISTING UTILITIES  
PRIOR TO CONSTRUCTION

CAUTION!!!  
EXIST. BURIED FIBER, TELEPHONE, CATV, GAS, ELECTRIC, WATER,  
SANITARY SEWER & STORM SEWER FACILITIES IN CONSTRUCTION AREA  
AND HAVE NOT BEEN FIELD LOCATED, CONTRACTOR TO VERIFY EXACT  
LOCATION AND DEPTH PRIOR TO ANY DIGGING AND/OR BORING.

NOTE:  
PROP. 4'X4' BORE PITS  
AT EACH HH LOCATION

NORTH



PROJECT: 1706ANBA.005

RICHMOND, TX  
PEACAN GROVE TO FM - 723

CLARIFICATION NO.	QUANTITY
PLACE (24"X36"X24") HH	-
PLACE (17"X30"X36") HH	-
PROP. 1-2" HDPE	607'
PULL 1-144F (A) CABLE	607'
PULL 1-144F (DE) CABLE	-
PLACE 6M STRAND	-
LASH 1-144F CABLE	-
DOWN GUY & ANCHOR	-
RISER: 2" U GUARD	-
PLACE MARKER	-



McImetro  
ACCESS TRANSMISSION SERVICES  
CORPORATION

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC ROUTE  
PEACAN GROVE TO FM - 723  
RICHMOND, TX

DATE: 09/21/18

ENGINEER: ECC

DRAWN BY: T.P.G. (KIB)

REVISIONS			
No.	DATE	DESCRIPTION	BY
1.	-	-	-

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SCALE

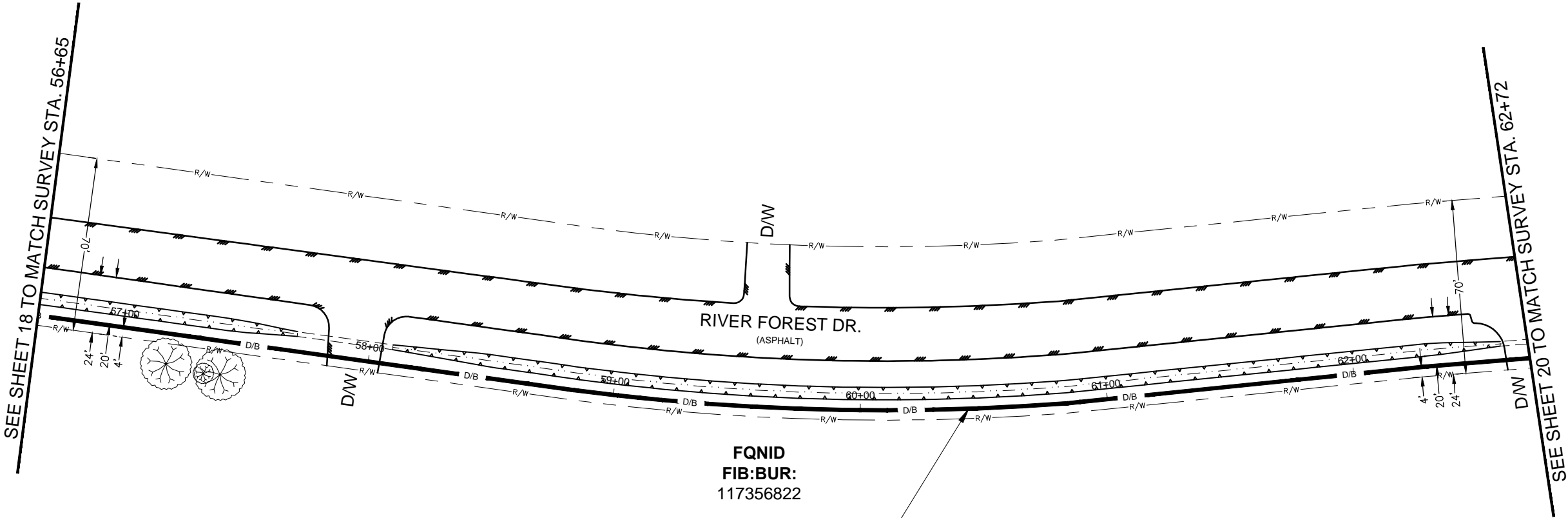
HORIZONTAL: 1"= 50'

VERTICAL: 1"= N/A

MP \_\_\_\_\_ TO MP \_\_\_\_\_

SHEET 19 OF 27

FILE: 1706ANBA.005 019



UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE RECORDS AND  
FIELD OBSERVATIONS BUT ARE NOT NECESSARILY EXACT. IT IS THE CONTRACTORS  
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Know what's below.  
Call before you dig.



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

NOTE:  
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RICHMOND, TX  
FORT BEND COUNTY

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CAUTION!!!  
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NOTE:  
PROP. 4'X4' BORE PITS  
AT EACH HH LOCATION



PROJECT: 1706ANBA.005	
RICHMOND, TX	
PEACAN GROVE TO FM - 723	
CLARIFICATION NO.	QUANTITY
PLACE (24"X36"X24") HH	1
PLACE (17"X30"X36") HH	-
PROP. 1-2" HDPE	639'
PULL 1-144F (A) CABLE	714'
PULL 1-144F (DE) CABLE	-
PLACE 6M STRAND	-
LASH 1-144F CABLE	-
DOWN GUY & ANCHOR	-
RISER: 2" U GUARD	-
PLACE MARKER	1



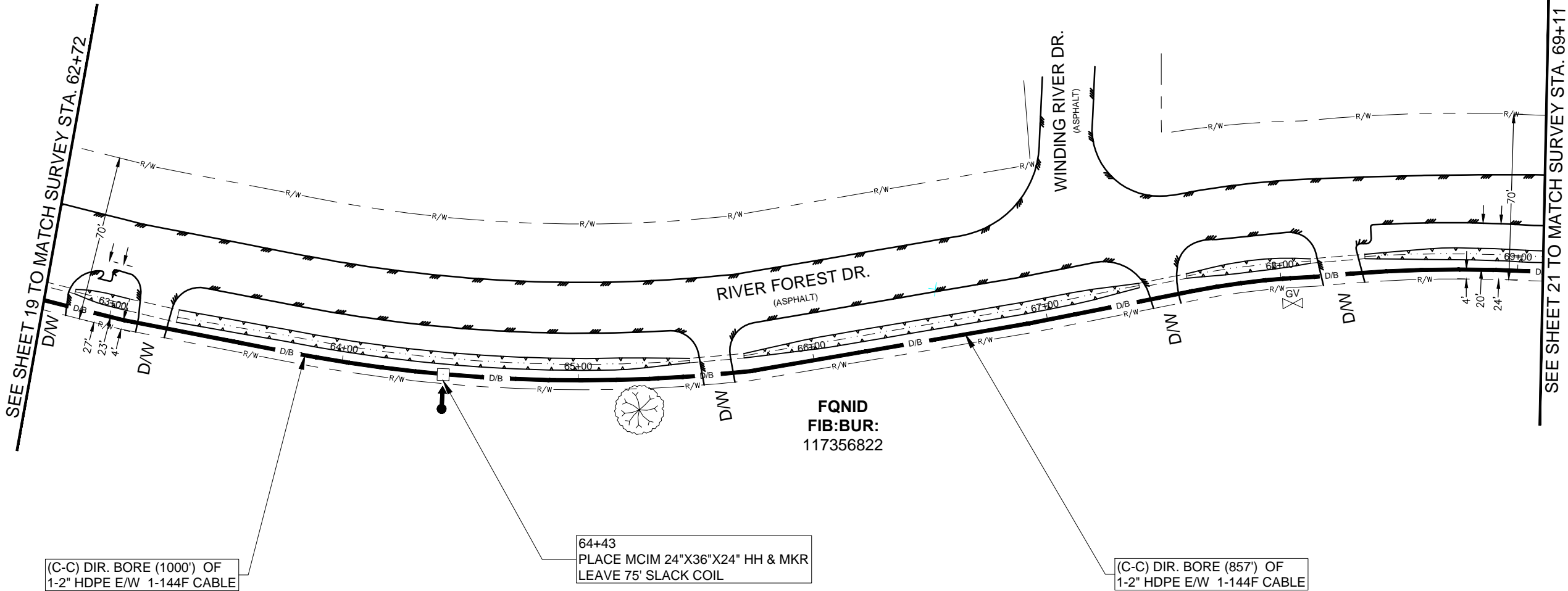
MCI metro ACCESS TRANSMISSION SERVICES CORPORATION	OUTSIDE PLANT CONSTRUCTION	TITLE: FIBER OPTIC ROUTE PEACAN GROVE TO FM - 723 RICHMOND, TX

DATE: 09/21/18  
ENGINEER: ECC  
DRAWN BY: T.P.G. (KIB)

REVISIONS			
No.	DATE	DESCRIPTION	BY
1.	-	-	-

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SCALE	
HORIZONTAL:	1"= 50'
VERTICAL:	1"= N/A
MP	TO MP
SHEET	20 OF 27
FILE: 1706ANBA.005 020	



UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE RECORDS AND  
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CALL BEFORE YOU DIG  
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NOTE:  
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NOTE:  
MAINTAIN 4' MINIMUM  
SEPARATION FROM EOP/BOC.

RICHMOND, TX  
FORT BEND COUNTY

CAUTION !!!!  
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CAUTION!!!  
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NOTE:  
PROP. 4'X4' BORE PITS  
AT EACH HH LOCATION

NORTH



PROJECT: 1706ANBA.005  
RICHMOND, TX  
PEACAN GROVE TO FM - 723

CLARIFICATION NO.	QUANTITY
PLACE (24"X36"X24") HH	1
PLACE (17"X30"X36") HH	-
PROP. 1-2" HDPE	558'
PULL 1-144F (A) CABLE	633'
PULL 1-144F (DE) CABLE	-
PLACE 6M STRAND	-
LASH 1-144F CABLE	-
DOWN GUY & ANCHOR	-
RISER: 2" U GUARD	-
PLACE MARKER	1



McImetro  
ACCESS TRANSMISSION SERVICES  
CORPORATION

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC ROUTE  
PEACAN GROVE TO FM - 723  
RICHMOND, TX

DATE: 09/21/18  
ENGINEER: ECC  
DRAWN BY: T.P.G. (KIB)

REVISIONS			
No.	DATE	DESCRIPTION	BY
1.	-	-	-

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SCALE

HORIZONTAL: 1"= 50'  
VERTICAL: 1"= N/A  
MP \_\_\_\_\_ TO MP \_\_\_\_\_  
SHEET 21 OF 27  
FILE: 1706ANBA.005 021

SEE SHEET 20 TO MATCH SURVEY STA. 69+11

SEE SHEET 22 TO MATCH SURVEY STA. 74+69

RIGHT OF WAY LINES WERE ESTABLISHED BY RESEARCH OF PUBLIC INFORMATION.  
NO BOUNDARY SURVEY OR PROPERTY LINE SURVEY WAS ESTABLISHED. RIGHT OF  
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73+00  
PLACE MCIM 24"X36"X24" HH & MKR  
LEAVE 75' SLACK COIL

(C-C) DIR. BORE (262') OF  
1-2" HDPE E/W 1-144F CABLE

(C-C) DIR. BORE (857') OF  
1-2" HDPE E/W 1-144F CABLE

FQID  
FIB: BUR:  
117356822

RIVER FOREST DR.  
(ASPHALT)

FOREST VIEW DR.  
(ASPHALT)



NOTE:  
CONTRACTOR TO MAINTAIN 60" MIN. DEPTH CROSSING  
OF ROADWAYS, DRIVEWAYS, AND CULVERTS.

NOTE:  
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SEPARATION FROM EOP/BOC.

RICHMOND, TX  
FORT BEND COUNTY

CAUTION !!!!  
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NOTE:  
PROP. 4'X4' BORE PITS  
AT EACH HH LOCATION



PROJECT: 1706ANBA.005	
RICHMOND, TX	
PEACAN GROVE TO FM - 723	
CLARIFICATION NO.	QUANTITY
PLACE (24"X36"X24") HH	1
PLACE (17"X30"X36") HH	-
PROP. 1-2" HDPE	115'
PULL 1-144F (A) CABLE	190'
PULL 1-144F (DE) CABLE	-
PLACE 6M STRAND	454'
LASH 1-144F CABLE	554'
DOWN GUY & ANCHOR	3
RISER: 2" U GUARD	1
PLACE MARKER	1



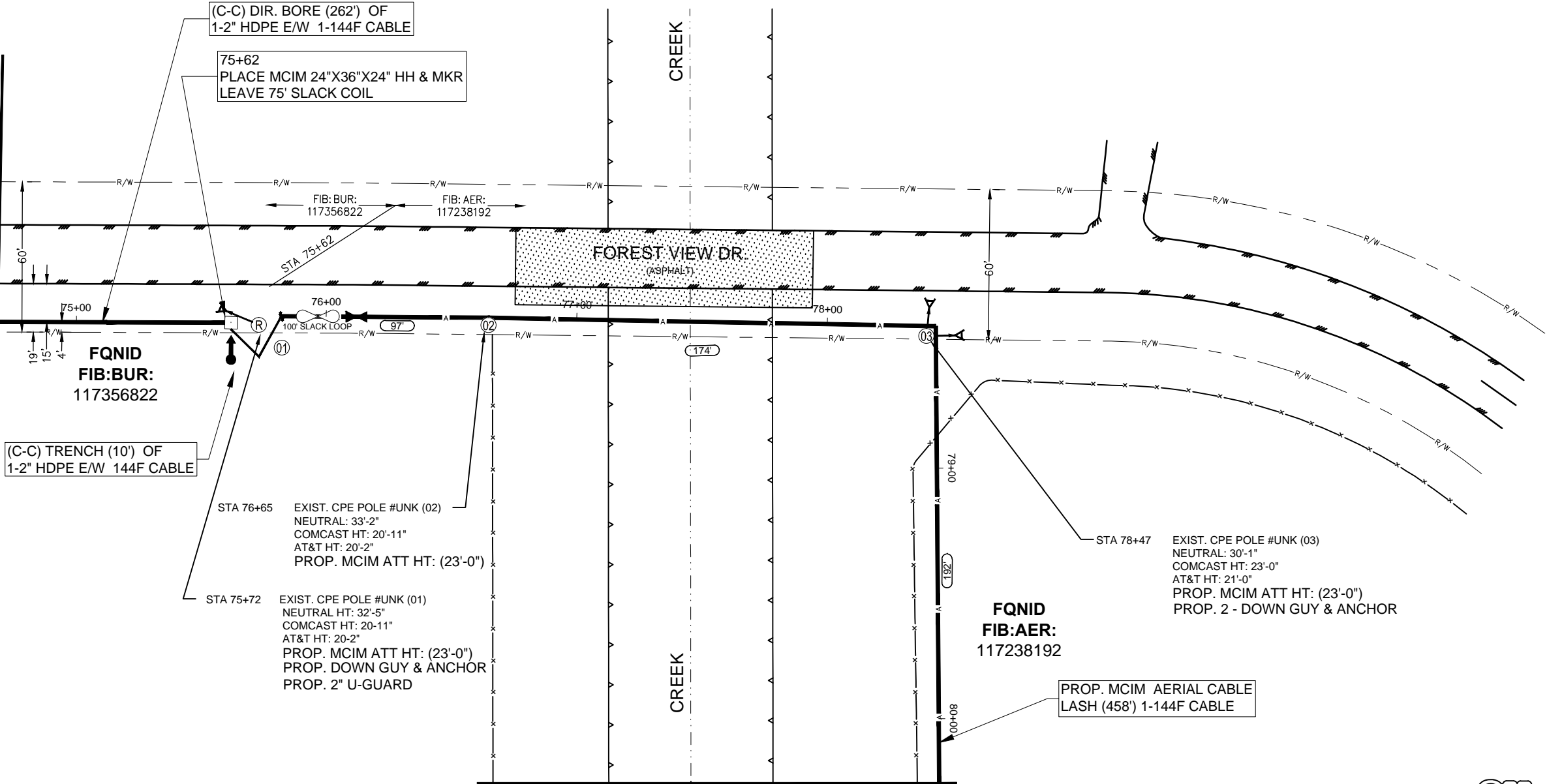
MCImetro ACCESS TRANSMISSION SERVICES CORPORATION	OUTSIDE PLANT CONSTRUCTION	TITLE: FIBER OPTIC ROUTE PEACAN GROVE TO FM - 723 RICHMOND, TX

DATE: 09/21/18			
ENGINEER: ECC			
DRAWN BY: T.P.G. (KIB)			
REVISIONS			
No.	DATE	DESCRIPTION	BY
1.	-	-	-

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SCALE	
HORIZONTAL:	1"= 50'
VERTICAL:	1"= N/A
MP	TO MP
SHEET	22 OF 27
FILE: 1706ANBA.005 022	

SEE SHEET 21 TO MATCH SURVEY STA. 74+69



SEE SHEET 23 TO MATCH SURVEY STA. 80+26

UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE RECORDS AND  
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CALL BEFORE YOU DIG  
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NOTE:  
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RICHMOND, TX  
FORT BEND COUNTY

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NOTE:  
PROP. 4'X4' BORE PITS  
AT EACH HH LOCATION



PROJECT: 1706ANBA.005	
RICHMOND, TX	
PEACAN GROVE TO FM - 723	
CLARIFICATION NO.	QUANTITY
PLACE (24"X36"X24") HH	-
PLACE (17"X30"X36") HH	-
PROP. 1-2" HDPE	-
PULL 1-144F (A) CABLE	-
PULL 1-144F (DE) CABLE	-
PLACE 6M STRAND	615'
LASH 1-144F CABLE	715'
DOWN GUY & ANCHOR	6
RISER: 2" U GUARD	-
PLACE MARKER	-



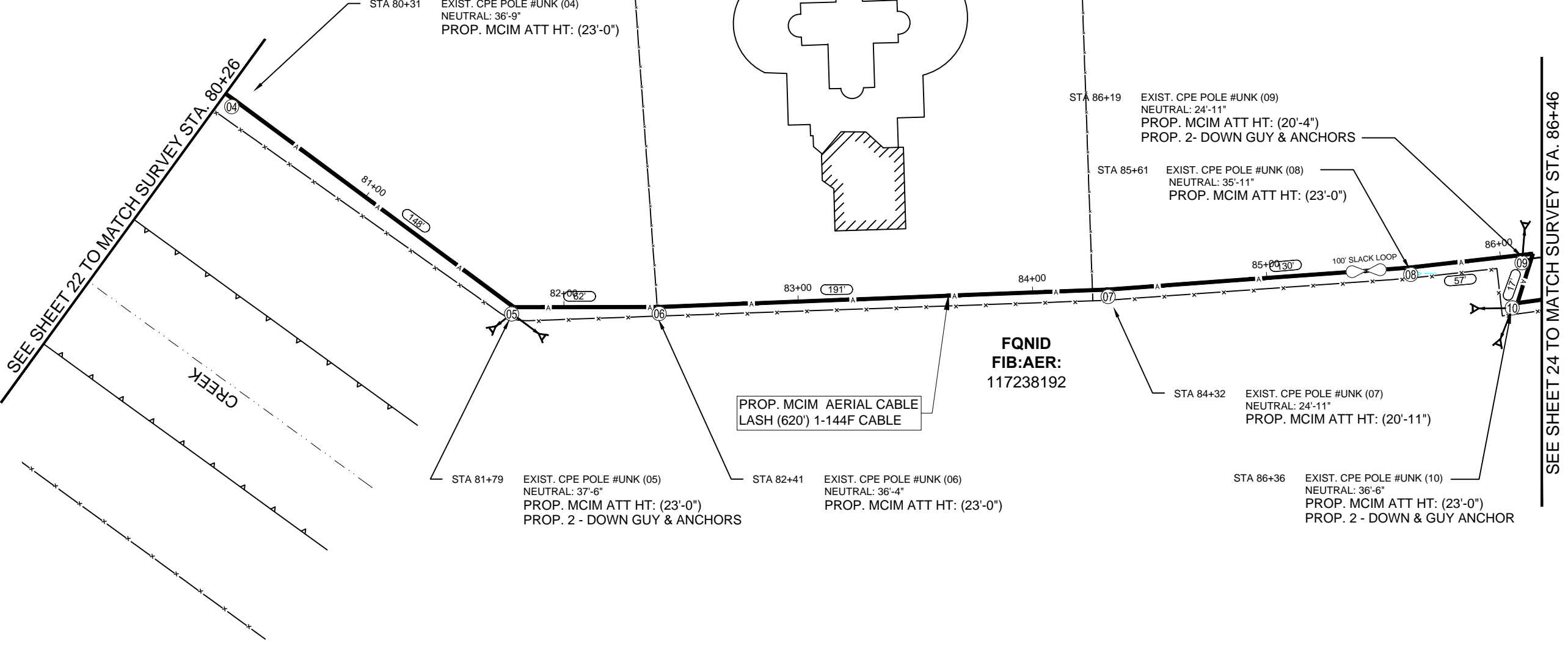
McImetro ACCESS TRANSMISSION SERVICES CORPORATION	OUTSIDE PLANT CONSTRUCTION	TITLE: FIBER OPTIC ROUTE PEACAN GROVE TO FM - 723 RICHMOND, TX

DATE: 09/21/18  
ENGINEER: ECC  
DRAWN BY: T.P.G. (KIB)

REVISIONS			
No.	DATE	DESCRIPTION	BY
1.	-	-	-

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SCALE	
HORIZONTAL:	1"= 50'
VERTICAL:	1"= N/A
MP	TO MP
SHEET	23 OF 27
FILE: 1706ANBA.005 023	



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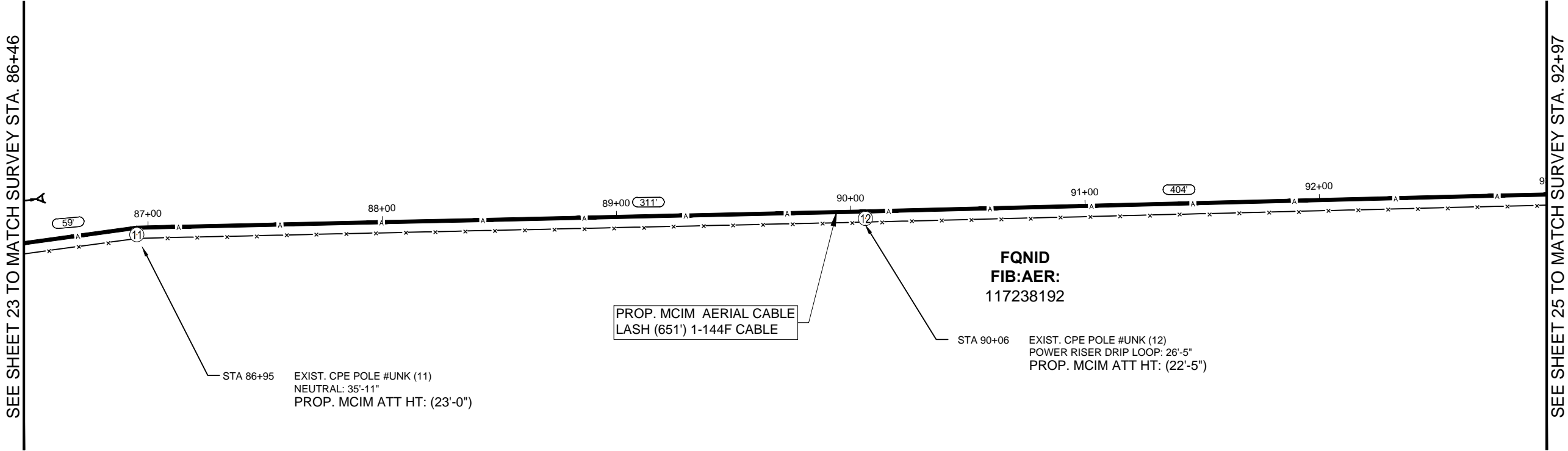
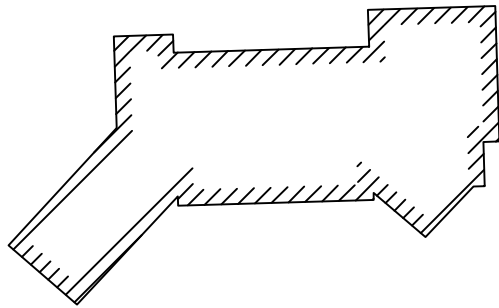
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RICHMOND, TX  
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NOTE:  
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AT EACH HH LOCATION



PROJECT: 1706ANBA.005  
RICHMOND, TX  
PEACAN GROVE TO FM - 723

CLARIFICATION NO.	QUANTITY
PLACE (24"X36"X24") HH	-
PLACE (17"X30"X36") HH	-
PROP. 1-2" HDPE	-
PULL 1-144F (A) CABLE	-
PULL 1-144F (DE) CABLE	-
PLACE 6M STRAND	651'
LASH 1-144F CABLE	651'
DOWN GUY & ANCHOR	-
RISER: 2" U GUARD	-
PLACE MARKER	-



McImetro  
ACCESS TRANSMISSION SERVICES  
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OUTSIDE PLANT CONSTRUCTION  
TITLE: FIBER OPTIC ROUTE  
PEACAN GROVE TO FM - 723  
RICHMOND, TX

DATE: 09/21/18  
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REVISIONS			
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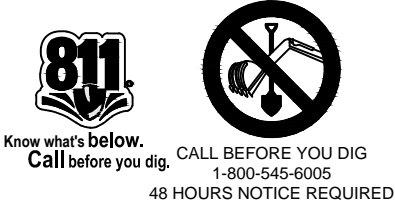
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SCALE  
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VERTICAL: 1"= N/A  
MP \_\_\_\_\_ TO MP \_\_\_\_\_  
SHEET 24 OF 27  
FILE: 1706ANBA.005 024

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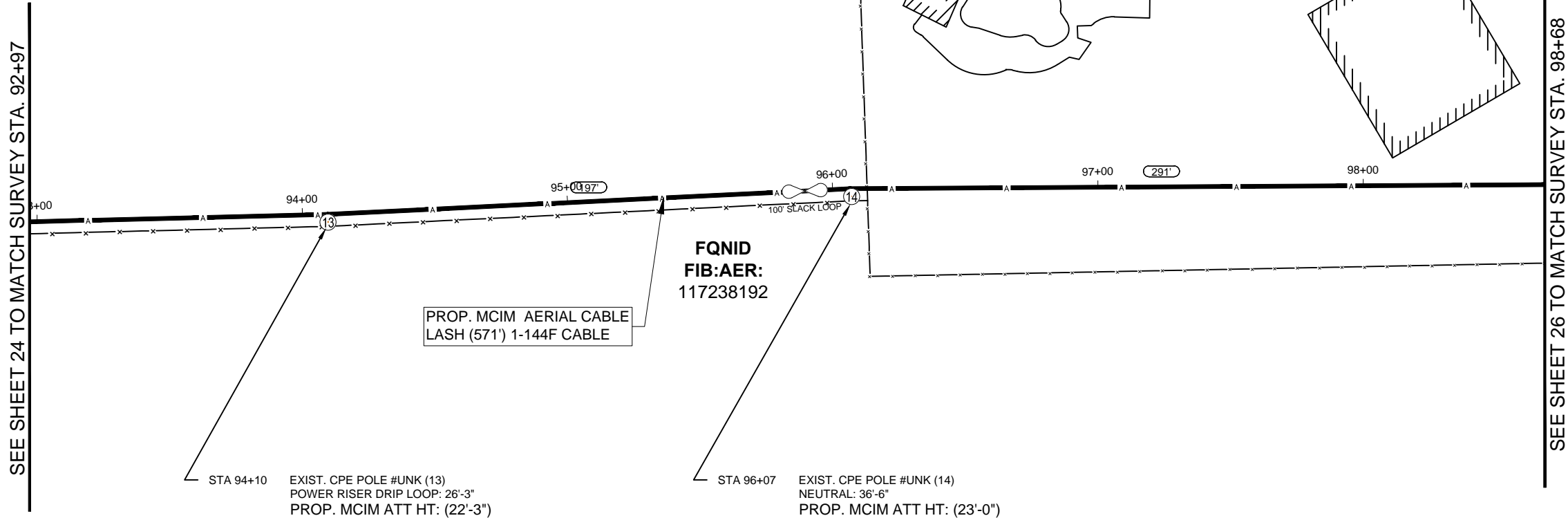
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FORT BEND COUNTY

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ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION."

RIGHT OF WAY LINES WERE ESTABLISHED BY RESEARCH OF PUBLIC INFORMATION.  
NO BOUNDARY SURVEY OR PROPERTY LINE SURVEY WAS ESTABLISHED. 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.

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

PROJECT: 1706ANBA.005	
RICHMOND, TX	
PEACAN GROVE TO FM - 723	
CLARIFICATION NO.	QUANTITY
PLACE (24"x36"x24") HH	-
PLACE (17"x30"x36") HH	-
PROP. 1-2" HDPE	-
PULL 1-144F (A) CABLE	-
PULL 1-144F (DE) CABLE	-
PLACE 6M STRAND	571'
LASH 1-144F CABLE	671'
DOWN GUY & ANCHOR	-
RISER: 2" U GUARD	-
PLACE MARKER	-



MCI metro ACCESS TRANSMISSION SERVICES CORPORATION	OUTSIDE PLANT CONSTRUCTION	TITLE: FIBER OPTIC ROUTE PEACAN GROVE TO FM - 723 RICHMOND, TX

DATE: 09/21/18			
ENGINEER: ECC			
DRAWN BY: T.P.G. (KIB)			
REVISIONS			
No.	DATE	DESCRIPTION	BY
1.	-	-	-

EXCEPT AS MAY BE OTHERWISE PROVIDED BY  
CONTRACT, THESE DRAWINGS AND SPECIFICATIONS  
SHALL REMAIN THE PROPERTY OF MCI  
COMMUNICATIONS SERVICES INC. BOTH BEING  
ISSUED IN STRICT CONFIDENCE AND SHALL NOT BE  
REPRODUCED, COPIED, OR USED FOR ANY  
PURPOSE WITHOUT SPECIFIC WRITTEN PERMISSION.

SCALE	
HORIZONTAL:	1"= 50'
VERTICAL:	1"= N/A
MP _____	TO MP _____
SHEET <u>25</u>	OF <u>27</u>
FILE: 1706ANBA.005 025	



RICHMOND, TX  
FORT BEND COUNTY

**CAUTION !!!!  
CONTRACTOR TO LOCATE &  
VERIFY ALL EXISTING UTILITIES  
PRIOR TO CONSTRUCTION**

**CAUTION!!!**  
**EXIST. BURIED FIBER, TELEPHONE, CATV, GAS, ELECTRIC, WATER,**  
**SANITARY SEWER & STORM SEWER FACILITIES IN CONSTRUCTION AREA**  
**AND HAVE NOT BEEN FIELD LOCATED, CONTRACTOR TO VERIFY EXACT**  
**LOCATION AND DEPTH PRIOR TO ANY DIGGING AND/OR BORING.**



PROJECT: 1706ANBA.005

RICHMOND, TX

PEACAN GROVE TO FM - 723

CLARIFICATION NO.	QUANTITY
PLACE (24"X36"X24") HH	1
PLACE (17"X30"X36") HH	-
PROP. 1-2" HDPE	-
PULL 1-144F (A) CABLE	790'
PULL 1-144F (DE) CABLE	-
PLACE 6M STRAND	232'
LASH 1-144F CABLE	332'
DOWN GUY & ANCHOR	1
RISER: 2" U GUARD	1
PLACE MARKER	1



MCImetro  
ACCESS TRANSMISSION SERVICES  
CORPORATION

## OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC ROUTE  
PEACAN GROVE TO FM - 723  
RICHMOND TX

DATE: 09/21/18

ENGINEER: ECC

DRAWN BY: T.P.G. (KIB

## REVISIONS

No.	DATE	DESCRIPTION	BY
1.	-	-	-

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SCALE

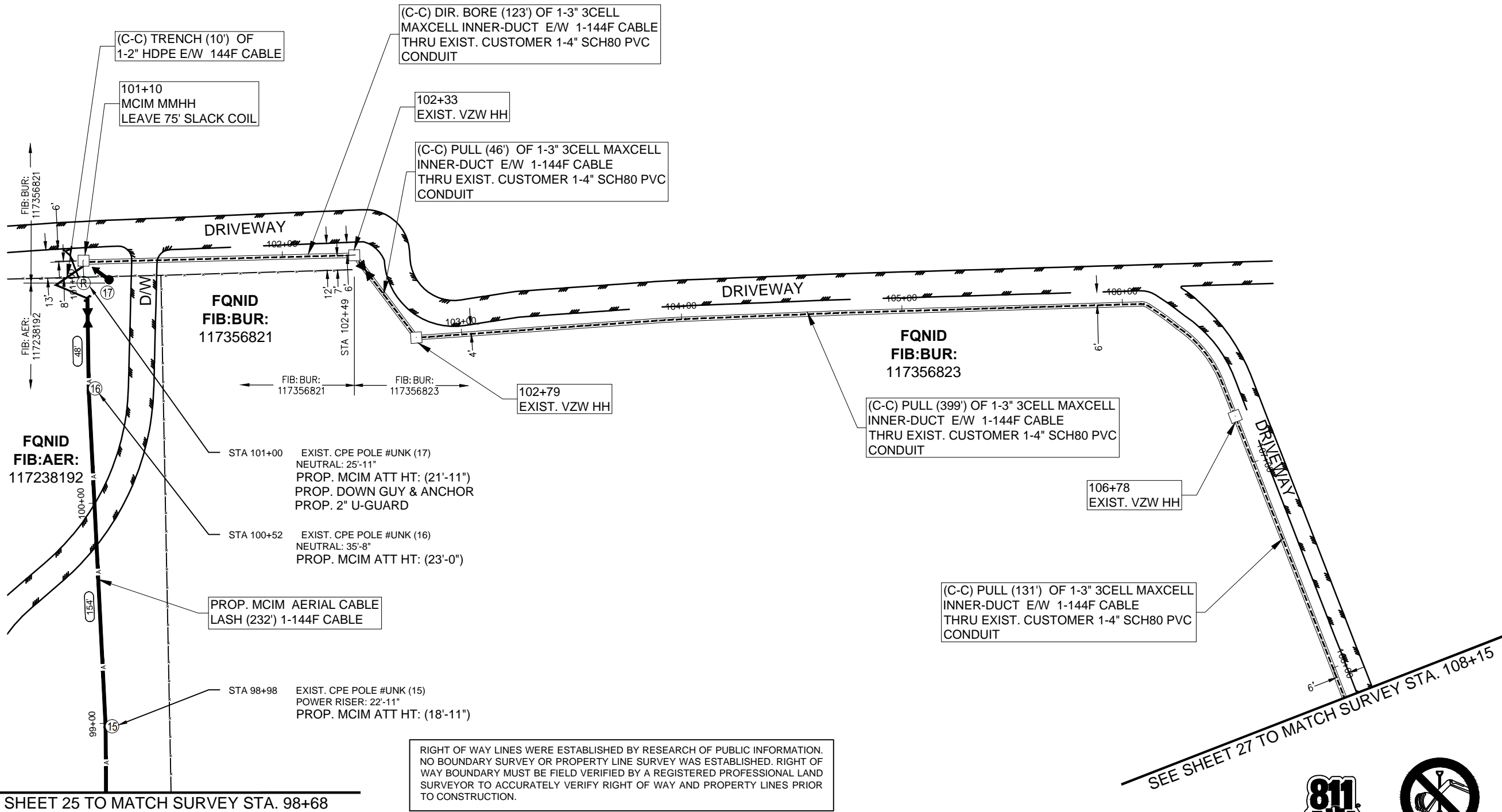
HORIZONTAL: 1"= 50'

VERTICAL: 1"= N/A

MP	TO MP
----	-------

SHEET 26 OF 27

FILE: 1706ANBA.005 026



**NOTE:  
THE CONTRACTOR SHALL FIELD VERIFY AND LOCATE  
ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION."**



Know what's below  
**Call** before you



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

48 HOURS NOTICE REQUIRED

NOTE:  
CONTRACTOR TO MAINTAIN 60" MIN. DEPTH CROSSING  
OF ROADWAYS, DRIVEWAYS, AND CULVERTS.

NOTE:  
MAINTAIN 4" MINIMUM  
SEPARATION FROM EOP/BOC.

RICHMOND, TX  
FORT BEND COUNTY

CAUTION !!!!  
CONTRACTOR TO LOCATE &  
VERIFY ALL EXISTING UTILITIES  
PRIOR TO CONSTRUCTION

CAUTION!!!  
EXIST. BURIED FIBER, TELEPHONE, CATV, GAS, ELECTRIC, WATER,  
SANITARY SEWER & STORM SEWER FACILITIES IN CONSTRUCTION AREA  
AND HAVE NOT BEEN FIELD LOCATED, CONTRACTOR TO VERIFY EXACT  
LOCATION AND DEPTH PRIOR TO ANY DIGGING AND/OR BORING.

NOTE:  
PROP. 4'X4' BORE PITS  
AT EACH HH LOCATION



PROJECT: 1706ANBA.005	
RICHMOND, TX	
PEACAN GROVE TO FM - 723	
CLARIFICATION NO.	QUANTITY
PLACE (24"X36"X24") HH	-
PLACE (17"X30"X36") HH	-
PROP. 1-2" HDPE	-
PULL 1-144F (A) CABLE	628'
PULL 1-144F (DE) CABLE	-
PLACE 6M STRAND	-
LASH 1-144F CABLE	-
DOWN GUY & ANCHOR	-
RISER: 2" U GUARD	-
PLACE MARKER	-

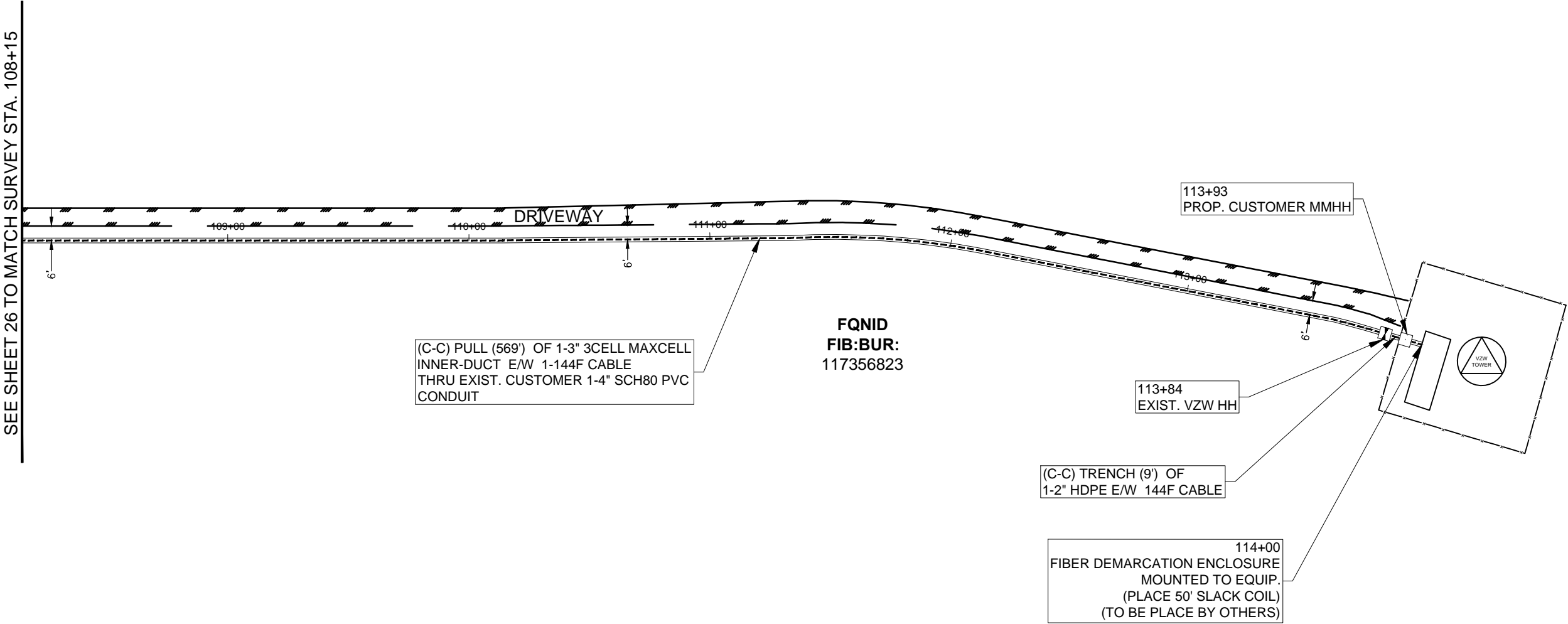


MCI metro ACCESS TRANSMISSION SERVICES CORPORATION	OUTSIDE PLANT CONSTRUCTION	TITLE: FIBER OPTIC ROUTE PEACAN GROVE TO FM - 723 RICHMOND, TX

DATE: 09/21/18			
ENGINEER: ECC			
DRAWN BY: T.P.G. (KIB)			
REVISIONS			
No.	DATE	DESCRIPTION	BY
1.	-	-	-

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REPRODUCED, COPIED, OR USED FOR ANY  
PURPOSE WITHOUT SPECIFIC WRITTEN PERMISSION.

SCALE	
HORIZONTAL:	1"= 50'
VERTICAL:	1"= N/A
MP _____	TO MP _____
SHEET <u>27</u>	OF <u>27</u>
FILE: 1706ANBA.005 027	



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.

NOTE:  
THE CONTRACTOR SHALL FIELD VERIFY AND LOCATE  
ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION."

RIGHT OF WAY LINES WERE ESTABLISHED BY RESEARCH OF PUBLIC INFORMATION.  
NO BOUNDARY SURVEY OR PROPERTY LINE SURVEY WAS ESTABLISHED. RIGHT OF  
WAY BOUNDARY MUST BE FIELD VERIFIED BY A REGISTERED PROFESSIONAL LAND  
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