

#### 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

The state of the s		Comme	f Way Permit			
		Permit No: 2	017-16356			· · · · · · · · · · · · · · · · · · ·
Applic		n/Eagle Eye Permitting & De			V	
Job Lo	ocation Site:	Hagerson Road, Missouri	City, TX 7745	9		
Bond I	No.	Date of Bond: _	8/27/1981	_Amount:	\$150,000.00	
Laying, Roads, Commi Texas,	Construction, Streets, Highwissioners Court of the Minutes	came to make use of certain I Maintenance, and Repair of rays, and Drainage Ditches in of Fort Bend County, Texas,' of the Commissioners Court pter 181, Vernon's Texas Sta	Buried Cables Fort Bend Co ' as passed by of Fort Bend	, Conduits, and unty, Texas, Un the Commissic County, Texas,	Pole Lines, In, Under, Acro der the Jurisdiction of the oners Court of Fort Bend C	oss or Along ounty,
2.	Evidence of regrounds for job Written notice a. 4 b. V	view by the Commissioners Coshutdown. s are required: 8 hours in advance of construction is complet dministrator thru MyGovern ires one (1) year from date of	uction start up ed and ready mentOnline.o	o, and for final inspec rg portal.	tion, submit notification to	
Commi notice	issioner <u>17</u> of said above p	vember, 2017, Upon Motion ORallo,, duly ourpose is hereby acknowled aced on record according to t	put and carrie ged by the Co	ed, it is ORDERE mmissioners Co	D, ADJUDGED AND DECRE	
Signatu	ure		Prese	nted to Comm	issioners Court and approv	ved.
	County Enginee		Date	Recorded <u>  - ੫</u>	<u>-⊋o17</u> Comm. Court No. <u>}</u>	20
By:	N/A		Clerk By:	of Commission	ers Court Willis	
C	Drainage Distri	t Engineer/Manager	V 1	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

X Righ	nt of Way Permit	, , , , , , , , , , , , , , , , , , , ,
Com	nmercial Driveway	Permit
Permit No	: 2017-16356	
		A STATE OF THE STA
· · · · · · · · · · · · · · · · · · ·		ne activity in Fort Bend County" and accompanying ropriate regulations set by Commissioner's Court
(1) COMPLETE APPLICATION FORM:		
X a. Name of road, street, and/or	drainage ditch affo	ected.
χ 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: \$150,000.00
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 re	quirements.
Charles O. Al		10/27/2017
Permit Administrator		Date

# MCImetro ACCESS TRANSMISSION SERVICES CORPORATION

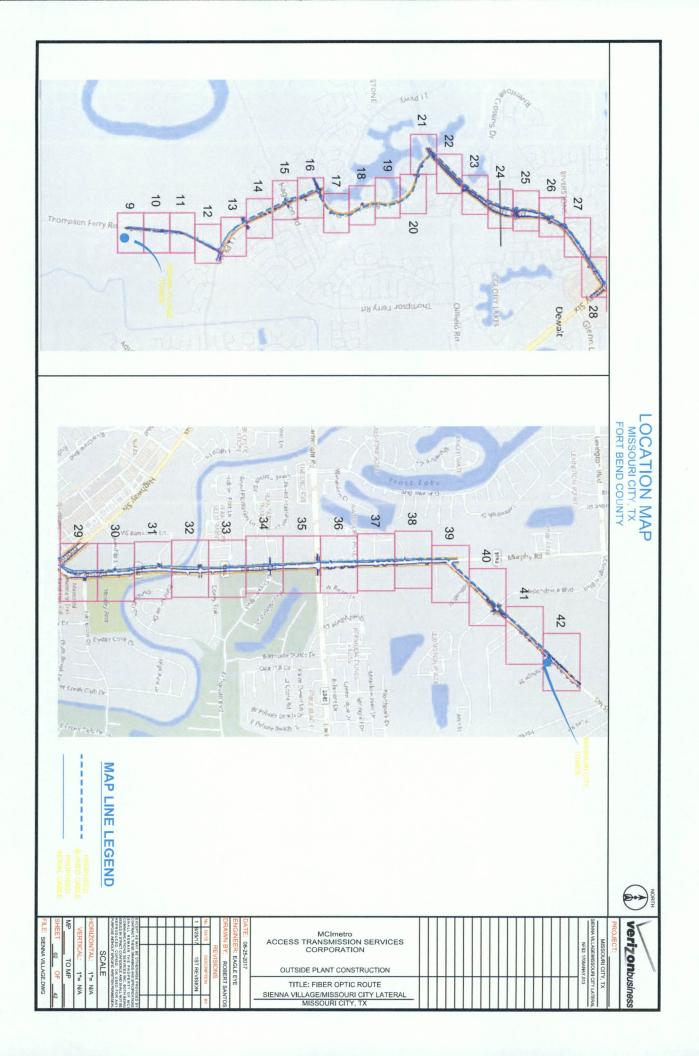
## OUTSIDE PLANT CONSTRUCTION FIBER OPTIC CABLE ROUTE

### MISSOURI CITY/SIENNA VILLAGE LATERAL MISSOURI CITY, TX MCI ONE-FIBER

SITE NFID: 1706ANAY.013

PROJECT STATUS: CONSTRUCTION





### CONTACT SHEET

**Verizon**business

#### MISSOURI CITY, TX FORT BEND COUNTY

#### PROGRAM MANAGER: LIGHTWAVE ENGINEER: CIVIL ENGINEER: TERMINAL CONST. REP.: SPLICING MANAGER: TSO MANAGER: COORDINATOR: MANAGER: OUTSIDE PLANT CONSTRUCTION: CONSTRUCTION CONTRACTOR: ERVI NAME OF FIRM: PROJECT COORDINATOR: PROJECT SUPERINTENDENT: MANAGER: AGENT: PROJECT COORDINATOR: CONSTRUCTION MANAGER: PROJECT COORDINATOR: PROJECT MANAGER: PROJECT ENGINEER: PROJECT MANAGER: PRESIDENT: ENGINEERING CONTRACTOR AURELIO MALLAMANCE OFFICE: CELL: E-MAIL OFFICE: OFFICE CELL: E-MAIL 844-322-2524 NON MEMBERS: TEXAS ONE CALL SYSTEM (UTILITY LOCATES) MCI UTILITY LOCATE UNION PACIFIC RAILROAD RAILROADS UTILITIES

## DAMIEL PETERS 402-544-9820 CITY OF HOUSTON - SANITARY SEVER MIKE NOWROOZI - SANITARY SEVER

COUNTY GOVERNMENT

COUNTY GOVERNMENT

MIKE MOWOOZI

823-394-9123

AND HABBI SE2-394-9123

BELL GROUCH

822-394-9181

822-394-9181

822-394-9181

HARRIS COUNTY

STATE GOVERNMENT

SAMIR GOEL 713-802-5321

MCImetro ACCESS TRANSMISSION SERVICES CORPORATION

OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC ROUTE
SIENNA VILLAGE/MISSOURI CITY LATERAL
MISSOURI CITY, TX

1-800-624-9675

FEDERAL GOVERNMENT

OTHER

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SIENNA VILLAGE.DWG

03 OF 42

## GENERAL NOTES / CLARIFICATION NOTES

#### GENERAL NOTES

- VERIZON BUSINESS COMPRISES THE FOLLOWING OPERATING ENTITIES:
- ...MCI COMMUNICATIONS SERVICES, INC.
  ...MCI MEITRO ACCESS TRANSMISSION SERVICES CORPORATION
  ...MCI MEITRO ACCESS TRANSMISSION SERVICES OF VIRGINIA, INC.
  ...MCI MEITRO ACCESS TRANSMISSION SERVICES OF MASSACHUSETTS, 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.
- UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE RECORDS AND FEILD OSSERVATIONS BUT ARE NOT NECESSARILY EXACT. THEREFORE, UTILITY LOCATIONS WILL BE VERHEID AT LEAST 100 FEET IN ADVANCE OF TRENCHING OR PLOWING, SO THAT CHANGES IN CASILE PLACEMENT CAN BE MADE IN THE EVENT OF CONFLICT.

  ALL KNOWN BURIED OSSTBUCTIONS ARE SHOWN ON THE CONSTRUCTION DRAWINGS, ANY AND ALL OTHERS ALL KNOWN BURIED OSSTBUCTIONS ARE SHOWN ON THE CONTRACTION TO LOCATE, PROTECT AND REPAIR IF ENCOUNTERED ARE ALSO THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE, PROTECT AND REPAIR IF
- 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.
- 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

SHORING OF BORE PITS AND TRENCHES IN ACCORDANCE WITH OSHA REGULATIONS IS MANDATORY.

- 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**



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

## ADDENDUM NOTES: HARRIS COUNTY - 48 HOUR NOTICE

- CONTRACTOR SHALL NOTIFY HARRIS COUNTY (48 HOURS) PRIOR TO COMMENCING CONSTRUCTION AND/OR BACKFILLING ARY UTILITIES.
  CONTRACTOR(5) ARE TO CONTACT HARRIS COUNTY "PUBLIC REVIEW DEPARTMENT" BY PHONE OR EMAIL-713-274-3931

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

700	600	500	400	300	200
710 711 713 712	610 620 630	510 515 516 517 520 525 518 527 528 530	410 411 415 420	310 315 320 330	210 212 213 214 215 217 217 218 217 218 220 221 220 221 222 244 244 244 244 245 246 256 256 256 256 280 280
PLACE BURIED CABLE MARKERS AND SIGNS/MWCOM WATER CROSSING SIGNS PLACE ISOLATOR-PROTECTION SYSTEM AT EXISTING HANDHOLES/MAHOLES REMOVE BURIED CABLE MARKER POST/HARDWARE	JETTING CONDUIT EMBEDMENT PLOW DIRECTIONAL BORE	DIRECT BURY CABLE EXPOSE DIRECT BURIED CABLE EXPOSE DIRECT BURIED CABLE AND RELOCATE EXPOSE DIRECT BURIED CABLE EXPOSE DIRECT BURIED CABLE PLACE AFRIAL CABLE RELOCATE AFRIAL CABLE RELOCATE AFRIAL CABLE RELOCATE AFRIAL CABLE REMOYE AFRIAL CABLE REMOYE AFRIAL CABLE PLACE POLEPIUSH BRACE REMOYE POLEPUSH BRACE	PULL CABLE PULL THROUGH DUCT (INNERDUCT) REMOVE CABLE FROM CONDUIT REPOSITION ACTIVE CABLE SLACK	ATTACH CONDUIT TO WALL OR STRUCTURE DETACH CONDUIT FROM WALL OR STRUCTURE CORE BORE ATTACH PULL/SPLIGE BOX TO WALL OR STRUCTURE	PLACE CONDUIT PLACE HIGH DENSITY POLYETHYLENE (HDPE) ROCK ADDER SURRY BACKFILL ADDER EXPOSE COMDUIT AND RELOCATE EXPOSE COMDUIT AND RELOCATE EXPOSE COMDUIT AND RELOCATE EXPOSE CONDUIT AND RELOCATE EXPOSE CONDUIT AND RELOCATE EXPOSE AND REMOVE CONDUIT (ABANDONED) CONCRETTE HAVENCE CONDUIT (ABANDONED) CONCRETTE HAVENCE CONDUIT (ABANDONED) PLACE HANDHOLE REMOVE CONCRETTE ENCASEMENT REMOVE EXISTING HANDHOLE EXCANATE SPLICE PIT PLACE MANHOLE RELOCATE PRECAST MANHOLE REMOVE AND RESTORE CONCRETE REMOVE AND RESTORE CONCRETE REMOVE AND RESTORE CURBING REMOVE AND RESTORE CURBING



**Verizon**business SOURI CITY, TX

MCImetro ACCESS TRANSMISSION SERVICES CORPORATION TITLE: FIBER OPTIC ROUTE

**OUTSIDE PLANT CONSTRUCTION** 

SIENNA VILLAGE/MISSOURI CITY LATERAL MISSOURI CITY, TX

ROBERT SANTO

1ST REVISION

SCALE

NTAL: 1"= N/A

ICAL: 1"= N/A

TO MP

SIENNA VILLAGE. DWG

## MCI OUTSIDE PLANT FOCUS

### FIBER OPTIC CABLE UNCOVERING SYSTEM

- THE TITLE OF THIS PROGRAM, F.C. THE TITLE OF THIS PROGRAM, FO.C.U.S., AN ACRONYM FOR "FIBER OPTIC CABLE LUNCOVERING SYSTEM," WAS SELECTED TO REMIND EVERYONE, INVOLVED WITH WORKING NEAR MOTS ACTIVE FIBER OPTIC SYSTEMS TO FOCUS ON PROTECTING THE FACILITIES. IF, DURING THE COURSE OF THE PROJECT. THE WORK AND RE-F.O. NOTICE ANY ACTIVITY WHICH MAY JEOPARDIZE THE MCI OSP FACILITIES, IT IS YOUR DUTY TO STOP
- IMPROPER PRACTICES. 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
- LEARN FROM HISTORY ARE DOOMED TO REPEAT IT." DO NOT LET THIS HAPPEN TO YOU. 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 REVIEW OF F.O.C.U.S. IS MANDATORY AT EVERY PRE-BID, PRE-CONSRUCTION SITE MEETING AND DAILY
- 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 PERFORMED WITH AN MCI EMPLOYEE OR CONTRACT REPRESENTATIVE PRESENTATI
  HIS OR HER VEHICLE AND DIRECTLY MONITORING THE WORK. THE REPRESENTATI OF THE CABLE). ANY WORK NEAR OR REQUIRING HANDLING OF MCI OUTSIDE PLANT FACILITIES CAN ONLY BE THE REPRESENTATIVE MUST HAVE A
- 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 MCJ OR CONUTACT 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.
- EVERY 15 FT., THEN EXPOSE THE ENTIRE LENGTH OF THE CABLE BY HAND DIGGING OR VACUUM EXCAVATION. MARKER FLAGS PLACED EVERY 10 FT. THE EXCAVATION CONTRACTOR MUST POTHOLE (A) 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 A MINIMUM OF
- 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 IF THE PROPOSED WORK INVOLVES DIGGING OR EXCAVATING WITHIN 5 FEET (BUT NOT CLOSER 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 CONTRACTOR MUST POTHOLE THE CABLE A MINIMUM OF EVERY 15 FT PAINT AND SUPPLEMENTED BY MARKER FLAGS PLACED EVERY 10 FT. THE EXCAVATION
- IN ANY DIRECTION, ANYTIME THE ACCURACY OF THE ELECTRONIC LOCATE IS QUESTIONED, OR THE MARKED RUNNING LINE DOES NOT MATCH THE AS-BUILTS. THE CABLE WILL ALSO BE POTHOLED AT ANY CHANGE IN THE RUNNING LINE OF MORE THAN 1 FT
- 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 FACILITIES ARE
- 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

verizonbusines:

- ALL FEDERAL, STATE AND LOCAL SAFETY REGULATIONS MUST BE FOLLOWED WITHOUT EXCEPTION.
- **ENTERING ANY MCI WORK SITE.** BOOTS, AND FLORESCENT ORANGE OR GREEN WORK VEST ARE REQUIRED UPON PERSONAL PROTECTIVE EQUIPMENT APPROPRIATE FOR THE SPECIFIC WORK SITE SHALL BE USED AT ALL TIMES. AT A MINIMUM, HARD HAT, SAFETY SHOES/STEEL-TOED
- 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 VERIFICATION THAT ALL TRAFFIC HAS BEEN OFF-LOADED. REMOVAL WILL BE CUT BY MCI OPERATIONS PERSONNEL, AND ONLY AFTER
- ACTIVITIES. EXTREME CAUTION MUST BE USED AT ALL TIMES WHEN WORKING ON OR NEAR APPROVE AND BE PRESENT PRIOR TO AND DURING ALL CABLE HANDLING ACTIVE CABLES. AN MCI EMPLOYEE OR CONTRACT REPRESENTATIVE MUST
- 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
- PROJECT PROTECTING MCI FACILITIES IS EXTREMELY IMPORTANT; HOWEVER, SAFETY REGARDING YOURSELF AND OTHERS IS THE MOST IMPORTANT PART OF ANY

MCImetro ACCESS TRANSMISSION SERVICES CORPORATION		П	П				T			1	1	NF.
OUTSIDE PLANT CONSTRUCTION												D: 1706ANA
TITLE: FIBER OPTIC ROUTE SIENNA VILLAGE/MISSOURI CITY LATERAL MISSOURI CITY, TX												Y.013
	ACCESS TRANSMISSION SERVICES CORPORATION  OUTSIDE PLANT CONSTRUCTION  TITLE: FIBER OPTIC ROUTE SIENNA VILLAGE/MISSOURI CITY LATERAL	ACCESS TRANSMISSION SERVICES CORPORATION  OUTSIDE PLANT CONSTRUCTION  TITLE: FIBER OPTIC ROUTE SIENNA VILLAGE/MISSOURI CITY LATERAL	ACCESS TRANSMISSION SERVICES CORPORATION  OUTSIDE PLANT CONSTRUCTION  TITLE: FIBER OPTIC ROUTE SIENNA VILLAGE/MISSOURI CITY LATERAL	ACCESS TRANSMISSION SERVICES CORPORATION  OUTSIDE PLANT CONSTRUCTION  TITLE: FIBER OPTIC ROUTE SIENNA VILLAGE/MISSOURI CITY LATERAL	ACCESS TRANSMISSION SERVICES CORPORATION  OUTSIDE PLANT CONSTRUCTION  TITLE: FIBER OPTIC ROUTE SIENNA VILLAGE/MISSOURI CITY LATERAL	ACCESS TRANSMISSION SERVICES CORPORATION  OUTSIDE PLANT CONSTRUCTION  TITLE: FIBER OPTIC ROUTE SIENNA VILLAGE/MISSOURI CITY LATERAL	ACCESS TRANSMISSION SERVICES CORPORATION  OUTSIDE PLANT CONSTRUCTION  TITLE: FIBER OPTIC ROUTE SIENNA VILLAGE/MISSOURI CITY LATERAL	ACCESS TRANSMISSION SERVICES CORPORATION  OUTSIDE PLANT CONSTRUCTION  TITLE: FIBER OPTIC ROUTE SIENNA VILLAGE/MISSOURI CITY LATERAL	ACCESS TRANSMISSION SERVICES CORPORATION  OUTSIDE PLANT CONSTRUCTION  TITLE: FIBER OPTIC ROUTE SIENNA VILLAGE/MISSOURI CITY LATERAL	ACCESS TRANSMISSION SERVICES CORPORATION  OUTSIDE PLANT CONSTRUCTION  TITLE: FIBER OPTIC ROUTE SIENNA VILLAGE/MISSOURI CITY LATERAL	ACCESS TRANSMISSION SERVICES CORPORATION  OUTSIDE PLANT CONSTRUCTION  TITLE: FIBER OPTIC ROUTE SIENNA VILLAGE/MISSOURI CITY LATERAL	ACCESS TRANSMISSION SERVICES CORPORATION  OUTSIDE PLANT CONSTRUCTION  TITLE: FIBER OPTIC ROUTE SIENNA VILLAGE/MISSOURI CITY LATERAL

SCALE TO MP 1"= N/A 1"= N/A

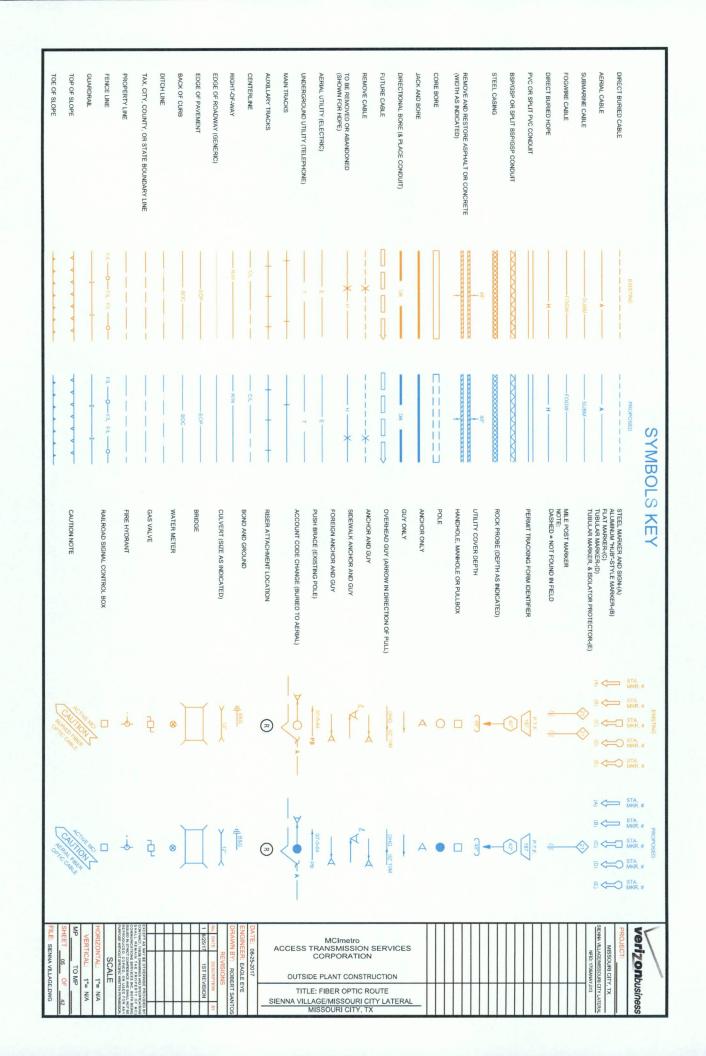
SIENNA VILLAGE.DWG

## CLARIFICATION SUMMARY SHEET PROJECT SPECIFIC

PROJECT CLARIFICATION SUMMARY		
DESCRIPTION	QUANTITY UNIT	TINU
PLACE (30"x60"x30") HANDHOLE	42	EA
PLACE 1-2" HDPE (SDR 11) CONDUIT	26,741	두
PLACE 2-2" HDPE (SDR 11) CONDUIT	3,293	F
PULL 1-96F CABLE (INCLUDES 830' IN COILS)	7,042	F
PULL 1-432F CABLE (INCLUDES 1760' IN COILS)	14,313	F
PULL 1-864F CABLE (INCLUDES 1930" IN COILS)	14,350	듀
PULL 1-288F CABLE (INCLUDES 630' IN COILS)	3,970	듀
ATTACH (25') 2" U-GUARD RISER	4	EA
(PLACE) DOWN GUY & ANCHOR LEAD	7	EA
PLACE 1-6M AERIAL STRAND (INCLUDES ALL HARDWARE, LOOP EQUIPMENT, & 175' IN GUYS)	4,307	듀
LASH 1-96F CABLE (INCLUDES 200' IN SLACK LOOPS & RISERS)	4,027	듀
LASH 1-864F CABLE (INCLUDES O' IN SLACK LOOPS & RISERS)	380'	5
PLACE (BURIED CABLE) MARKER	73	EA

MCImetro ACCESS TRANSMISSION SERVICES CORPORATION OUTSIDE PLANT CONSTRUCTION			≽   8	PROJECT:	verizona
TITLE: FIBER OPTIC ROUTE SIENNA VILLAGE/MISSOURI CITY LATERAL MISSOURI CITY, TX			URI CITY LATERAL NAY.013	Y, TX	business

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FILE: SIENNA VILLAGE.DWG	유	MP	1"= N/A	1"= N/A	Ē			REVISION	NOLIDIE	SN	ROBERT SANTOS
	42					PECHICATIONS RTY OF MCI RTY OF MCI ROTH BEING SHALL NOT BE ED FOR ANY N PERMISSION.			BY		NIOS



## CONSTRUCTION DETAILS

CONDUIT AS SPECIFIED

E/W ANY NUMBER OF

INNERDUCTS AND /OR

HDPE's AS SPECIFIED CROSS SECTION OF PROPOSED HDPE TYPICAL DETAIL "B"

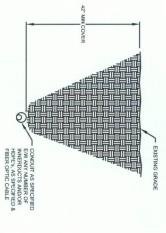
TRENCH & PLACE CONDUIT TYPICAL DETAIL "A"

**EXISTING GRADE** 

DIRECTIONAL BORE CROSS SECTION FOR CONDUIT TYPICAL DETAIL "C"

**Verizon**business

MISSOURI CITY, TX



## PROPOSED FIBER OPTIC CABLE

8 7 L

-COMPACT BACKFILLS IN 6" LAYERS WITH ROCK FREE MATERIAL MARKER TAPE

- CONDUIT AS SPECIFIED EW
ANY NUMBER OF INNERDUCTS
AND/OR HDPE'S, AS SPECIFIED
& FIBER OPTIC CABLE

T	2	MP		I		PUH ESS					No		P	m
E: S	HEET	P	VERT	ORIZONT		EXCEPT AS MAY BI CONTRACT, THESE D SHALL REMAIN COMMUNICATIONS ISSUED IN STRICT CO REPRODUCED, CO				8/25/17	DATE		RAWN	NGINEER:
ILE: SIENNA VILLAGE DWG	06	10	ICAL:	NTAL:	SCALE	XCEPT AS MAY BE OTHERWISE PROVIDED BY CONTRACT, THESE DEAVANGS AND SPECIPICATIONS OF MALLIC REGION THE PROPERTY OF MICH COMMALIC REGION THE PROPERTY OF MICH COMMALIC REGION TO SPECIFIC AND SAAL NOT BE EPRODUCED. COPPED, OR USED FOR AN UNITODE WITHOUT SPECIFIC WRITTEN PERMISSION.					DESC	REVISIONS	BY: RO	ER: EAGLE
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ลิ	42		N/A	N/A		SE PROVIDED BY WO SPECIFICATIONS PERTY OF MCI INC. BOTH BEING AND SHALL NOT BE USED FOR ANY ITTEN PERMISSION.				2	BY		ANTOS	

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

ROCK HEADWALL (WHERE OCCURS)

- 3" O.D. DIAMETER CORE BORE

TYPICAL DETAIL "D"

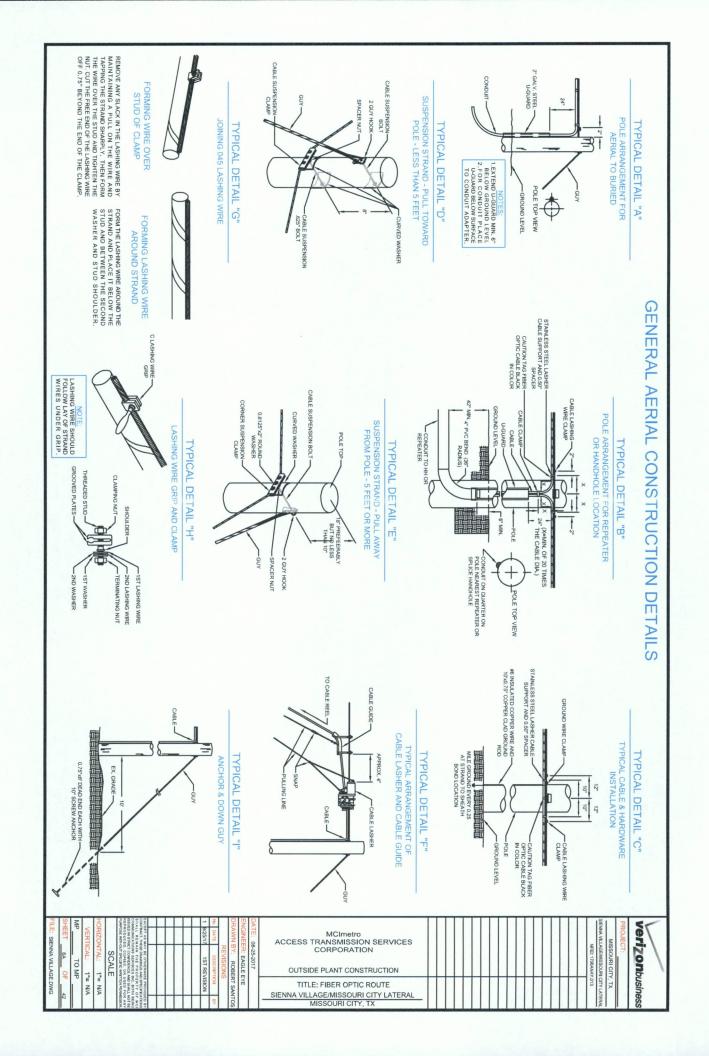
MCImetro ACCESS TRANSMISSION SERVICES CORPORATION

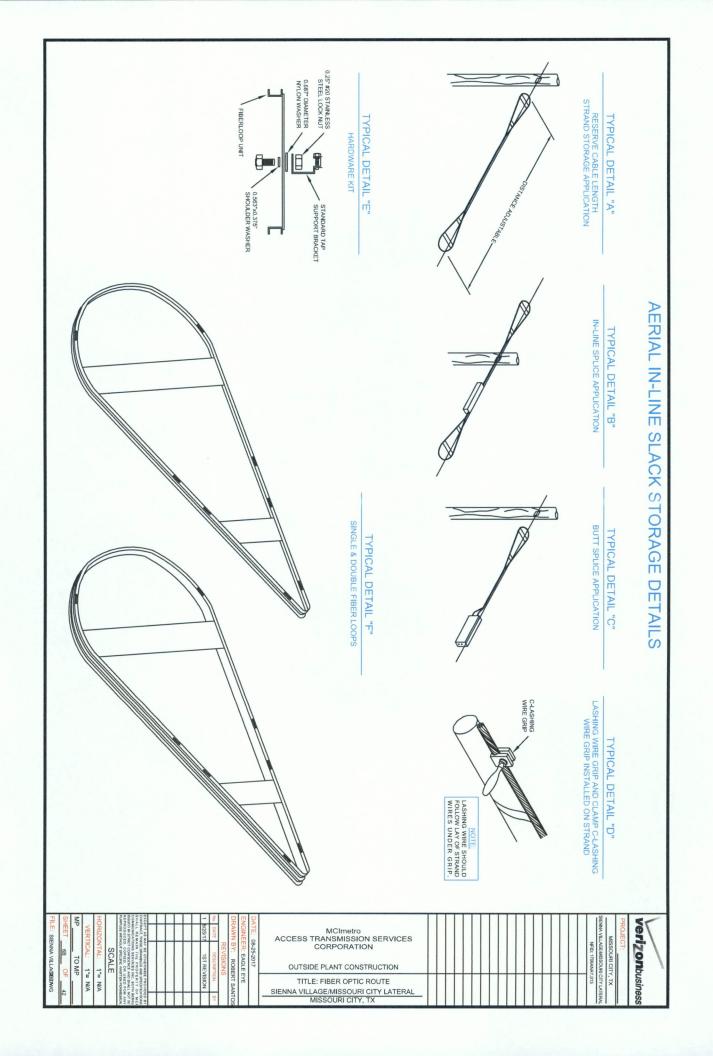
OUTSIDE PLANT CONSTRUCTION TITLE: FIBER OPTIC ROUTE SIENNA VILLAGE/MISSOURI CITY LATERAL MISSOURI CITY, TX

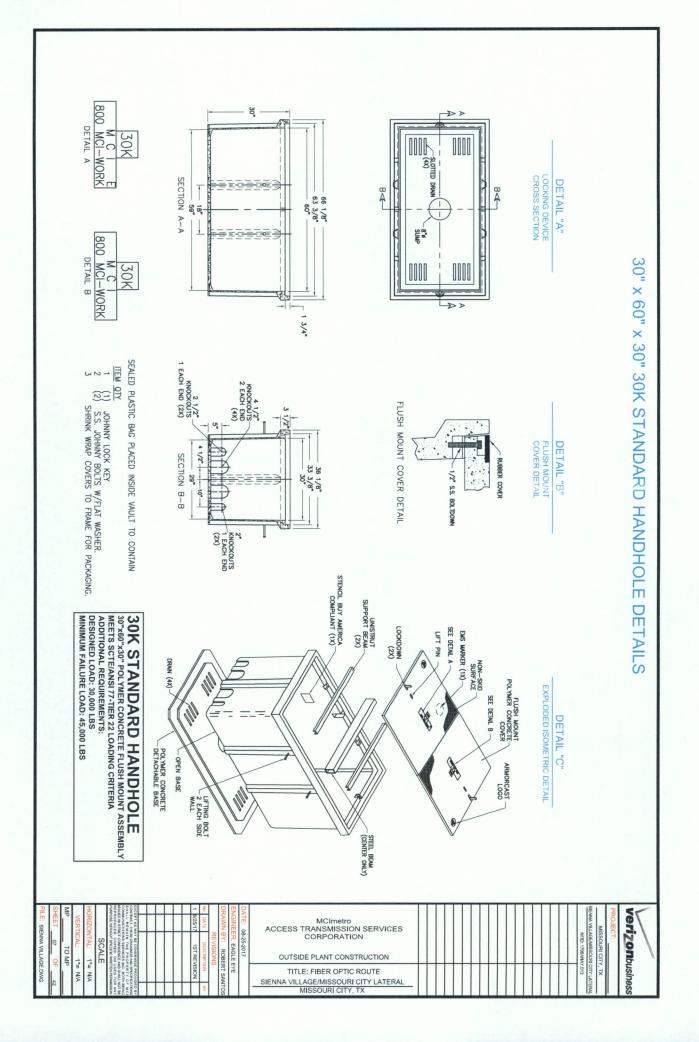
3" CORE BORE

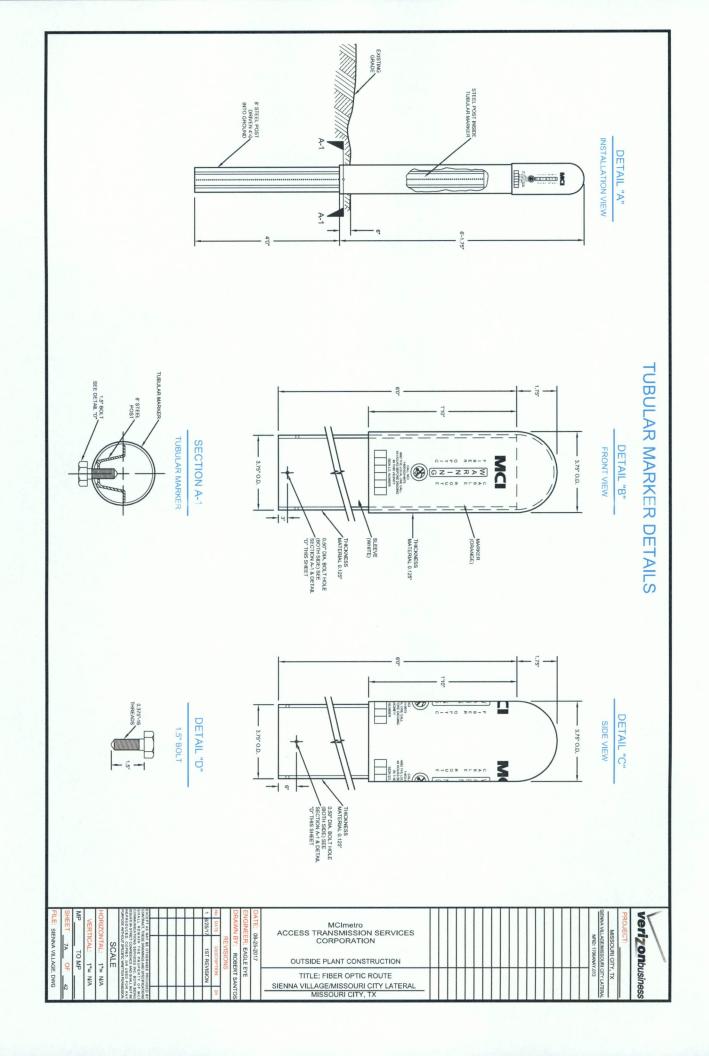
- 1-2.375" O.D. HDPE EPOXIED INTO 3" DIAM. CORE BORE

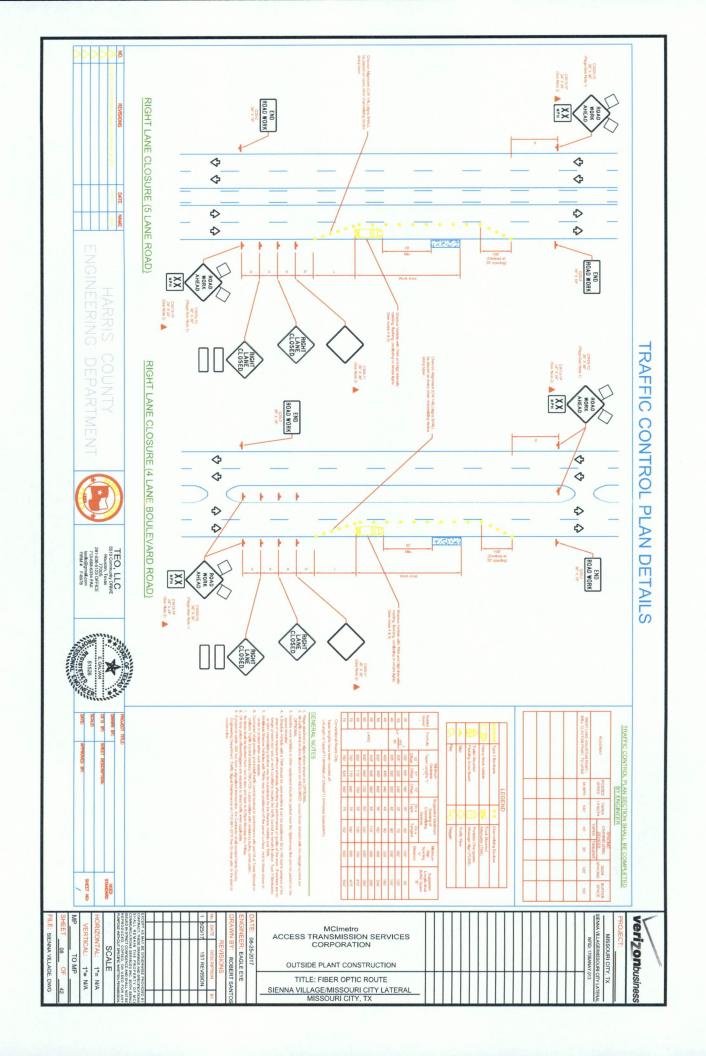
-1-2.375" O.D. HDPE







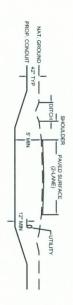




### ROAD CROSSING DETAILS

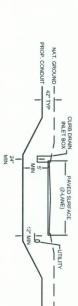


TWO LANE - ASPHALT ROAD - NO CURB



#### TYPICAL DETAIL "B"

TWO LANE - CURBED ROAD



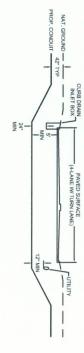
#### TYPICAL DETAIL "C"

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



#### TYPICAL DETAIL "D

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

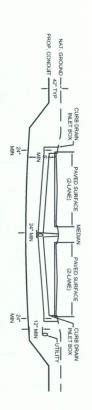


#### TYPICAL DETAIL "F"

4 LANE - SPLIT CURBED ROAD

4 LANE - SPLIT ASPHALT ROAD - NO CURB

TYPICAL DETAIL "E"



SCALE
RIZONTAL: 1"= N/A
VERTICAL: 1"= N/A
TO MP
TO MP
EET 08A OF 42
E. SIENNA VILLAGEDWG

PROP. CONDUIT NAT. GROUND

	MCImetro
ACCESS	TRANSMISSION SERVICE
	CORPORATION

TITLE: FIRED OPTIC POLITI
OUTSIDE PLANT CONSTRUCT

OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC ROUTE
SIENNA VILLAGE/MISSOURI CITY LATERAL
MISSOURI CITY, TX

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