

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 Commercial Permit No: 2018-1	Driveway Permit	
Applicant: MCI Metro Access Transmission Servic	es, Corp./Eagle Eye	Permitting & Design,
Job Location Site: 16232 Dora Lane, Sugarland, TX	77498	
Bond No. Date of Bond: 5/1.	/2017 Amount:	\$50,000.00
The above applicant came to make use of certain Fort B Laying, Construction, Maintenance, and Repair of Buried Roads, Streets, Highways, and Drainage Ditches in Fort I Commissioners Court of Fort Bend County, Texas," as particular, of the Minutes of the Commissioners Court of Foinconsistant with Chapter 181, Vernon's Texas Statutes	d Cables, Conduits, ar Bend County, Texas, I assed by the Commis rt Bend County, Texa	nd Pole Lines, In, Under, Across or Along Under the Jurisdiction of the Sioners Court of Fort Bend County,
Notes: 1. Evidence of review by the Commissioners Court regrounds for job shutdown. 2. Written notices are required: a. 48 hours in advance of construction b. When construction is completed an Administrator thru MyGovernments 3. This permit expires one (1) year from date of perm	n start up, and d ready for final insp Online.org portal.	ection, submit notification to Permit
On this 10th day of April, 2018, Upon Motion of Commiscommissioner, duly put a notice of said above purpose is hereby acknowledged by that said notice be placed on record according to the re-	nd carried, it is ORDE y the Commissioners	
Signature	Presented to Com	missioners Court and approved.
By: Rich Staigle, 1E, PTOE County Engineer	Date Recorded <u><i>प</i></u>	-12-2018 Comm. Court No. 11 L
N/A By: Drainage District Engineer/Manager	Clerk of Commissi By:	oners Court



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

Fort Bend County Engineering Department 301 Jackson Suite 401

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

X Rigi	ht of Way Permit	r omino@iordonaccanty.xgov
Con	nmercial Driveway	Permit
Permit No	o: 2018-18435	
		e activity in Fort Bend County" and accompanying opriate regulations set by Commissioner's Court
(1) COMPLETE APPLICATION FORM:		
X a. Name of road, street, and/o	r drainage ditch affe	cted.
x b. Vicinity map showing course	of directions	
X c. Plans and specifications		
(2) BOND:		
County Attorney, approval whe 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	EN APPLICABLE):	
Drainage District Approval	-	Date
We have reviewed this project and agree it r	neets minimum rec	uirements.
The state of the s		,
Rich & staigle, PE, PTOE		4/2/2018
Permit Administrator		Date

MCImetro ACCESS TRANSMISSION SERVICES CORPORATION

OUTSIDE PLANT CONSTRUCTION FIBER OPTIC CABLE ROUTE

MCI ONE-FIBER BUCCESS FLORENCE STAFFORD, TEXAS

SITE NFID: 1706ANBB.011

PROJECT STATUS: CONSTRUCTION



LOCATION MAP HOUSTON, TX HARRIS COUNTY verizonbusiness STAFFORD, TEXAS BUCCESS FLORENCE NFID: 1706ANBB.011 Adelfina St Sugar Place Dr Hillsman Ln Sam St Charleton Mill Lo Silver Gla OUTSIDE PLANT CONSTRUCTION MCImetro ACCESS TRANSMISSION SERVICES CORPORATION TITLE: FIBER OPTIC ROUTE BUCCESS FLORENCE STAFFORD, TEXAS Anson Grove Ln Woodbridge Villages in Mill Branch LA ATE: 12/17/17 NGINEER: RAWN BY: JUAN FACCINI REVISIONS Oak Lake Glen Dr 0 12/17 CONSTRUCTION JF W Alrport of take Pt

MAP LINE LEGEND

SCALE ORIZONTAL: VERTICAL:

HEET 02

1"=30" TO MP

OF 10 ILE: FLORENCE_1706ANBB.011

Park Glen Dr 1

CONTACT SHEET

HOUSTON, TX FORT BEND COUNTY

PROJECT ENGINEER:		
PROJECT MANAGER:		
PROJECT COORDINATOR:		
OUTSIDE PLANT CONSTRU	CTION:	
CONSTRUCTION CONTRACTOR:	ERVIN CABLE CONSTRUCTION	844-322-2
CONSTRUCTION MANAGER:	AURELIO MALLAMANCE	270-349-0
PROJECT COORDINATOR:		
AGENT:		
MANAGER:		
COORDINATOR:		
MANAGER:		
PROGRAM MANAGER:		
LIGHTWAVE ENGINEER:		
CIVIL ENGINEER: TERMINAL CONST. REP.:		
SPLICING MANAGER:		
TSO MANAGER:		
ENGINEERING CONTRACTO	DR	
	OFFICE:	
PRESIDENT:	OFFICE: CELL: E-MAIL	
	L-11974L	
PROJECT MANAGER:	OFFICE: CELL: E-MAIL	
NAME OF FIRM:		
PROJECT COORDINATOR:		
PROJECT SUPERINTENDENT:		

RAILROADS		
UNION PACIFIC RAILROAD	DANIEL PETERS	402-544-8620
UTILITIES		
MCI UTILITY LOCATE		1-800-624-96
TEXAS ONE CALL SYSTEM (UTILITY LOC	ATES)	1-800-545-60
NON MEMBERS:		

CITY GOVERNMENT CITY OF HOUSTON - SANITARY SEWER MIKE NOWROOZI SAM HABIBI NAEEM HUSAIN RICK KOVACICH ZIA MOHAMMADI ROBERTO GOMEZ BILL CROUCH 832-394-9123 832-394-9124 832-394-9128 832-394-9132 832-394-9134 832-394-9160 832-394-9161 - TRAFFIC - ROAD & BRIDGE - STORM QUALITY - WATER **COUNTY GOVERNMENT** HARRIS COUNTY STATE GOVERNMENT TXDOT SAMIR GOEL 713-802-5321 FEDERAL GOVERNMENT OTHER N/A

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GENERAL NOTES / CLARIFICATION NOTES

GENERAL NOTES

- VERIZON BUSINESS COMPRISES THE FOLLOWING OPERATING ENTITIES:
 - MCI COMMUNICATIONS SERVICES, INC.

 - MCI METRO ACCESS TRANSMISSION SERVICES CORPORATION
 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.
- 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
- 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
- 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.
- 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.
- 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

CLARIFICATION NOTES



- 1. STATION
- 2 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 ANY UTILITIES.
- CONTRACTOR(S) ARE TO CONTACT HARRIS COUNTY "PUBLIC REVIEW DEPARTMENT" BY PHONE OR EMAIL

 - public.review@chpid.org

CLARIFICATION NOTES (CONTINUED)

100	110	JACK AND DRY BORE CONDUIT(S)
200	210	PLACE CONDUIT
	212	PLACE HIGH DENSITY POLYETHYLENE (HDPE)
	213	ROCK ADDER
		SLURRY BACKFILL ADDER
	214	
	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
		CONSTRUCT WALL
	180	
	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
400		
	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
	0.07.700	
	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	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
	112	
	714	REMOVE CONCRETE BURIED CABLE MARKER POST



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1"=30"

MCI OUTSIDE PLANT FOCUS

FIBER OPTIC CABLE UNCOVERING SYSTEM

- 1. 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-FOCUS
- 2. 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
- 3. REVIEW OF F.O.C.U.S. IS MANDATORY AT EVERY PRE-BID, PRE-CONSRUCTION SITE MEETING AND DAILY TAILGATE MEETING. FO.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.
- 7. 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	:			
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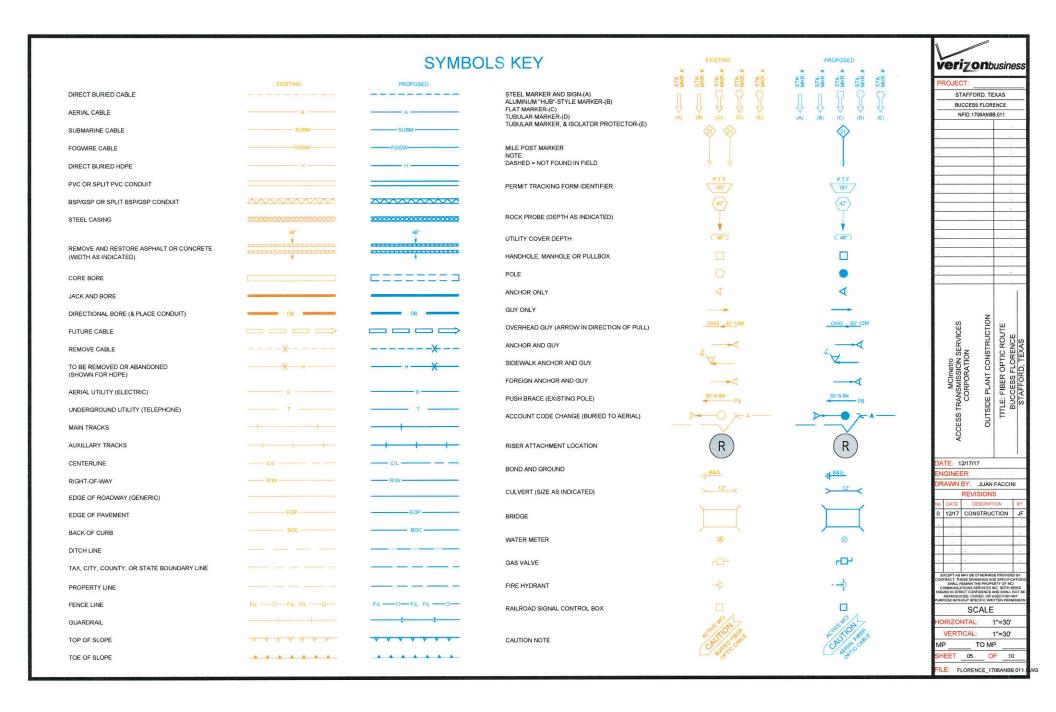
ORIZONTAL

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CLARIFICATION SUMMARY SHEET PROJECT SPECIFIC

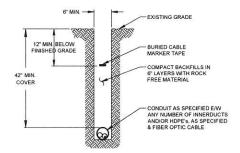
PROJECT CLARIFICATION SUMM	ARY	
DESCRIPTION	QUANTITY	UNIT
PLACE (30"x60"x30") HANDHOLE	4	EA
PLACE 1-2" HDPE (SDR 11) CONDUIT	2,344	LF
PULL 1-144F CABLE (INCLUDES 400' IN COILS)	2,783	LF
PLACE MARKER	4	EA

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CONSTRUCTION DETAILS

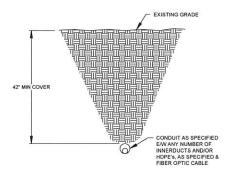
TYPICAL DETAIL"A" TRENCH & PLACE CONDUIT



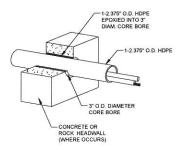
TYPICAL DETAIL "B" CROSS SECTION OF PROPOSED HDPE

CONDUIT AS SPECIFIED EW ANY NUMBER OF MEMORY NUMBER OF MEMORY SPECIFIED PROPOSED FIBER OPTIC CABLE OPTIC CABLE

TYPICAL DETAIL "C" DIRECTIONAL BORE CROSS SECTION FOR CONDUIT



TYPICAL DETAIL "D" 3" CORE BORE



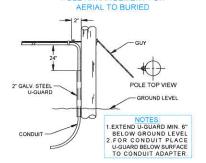
EPOXY GROUT IS USED AT BOTH ENDS OF CORE BORE TO SEAL GAP BETWEEN 2.375" CONDUIT AND PVC SLEEVE.

verizonbusiness STAFFORD, TEXAS BUCCESS FLORENCE NFID: 1706ANBB.011 OUTSIDE PLANT CONSTRUCTION MCImetro ACCESS TRANSMISSION SERVICES CORPORATION TITLE: FIBER OPTIC ROUTE BUCCESS FLORENCE STAFFORD, TEXAS ATE: 12/17/17 NGINEER: RAWN BY: JUAN FACCINI REVISIONS SCALE ORIZONTAL: 1"=30" TO MP HEET 06 OF 10

LE: FLORENCE 1706ANBB.011

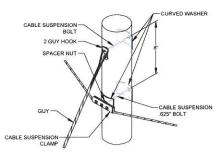
GENERAL AERIAL CONSTRUCTION DETAILS

TYPICAL DETAIL "A" POLE ARRANGEMENT FOR



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

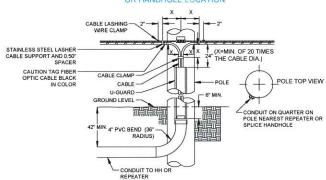


FORMING LASHING WIRE AROUND STRAND

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

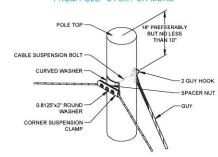
TYPICAL DETAIL "B"

POLE ARRANGEMENT FOR REPEATER OR HANDHOLE LOCATION



TYPICAL DETAIL "E"

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



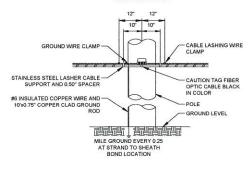
TYPICAL DETAIL "H"

LASHING WIRE GRIP AND CLAMP



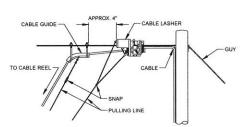
TYPICAL DETAIL "C"

TYPICAL CABLE & HARDWARE INSTALLATION



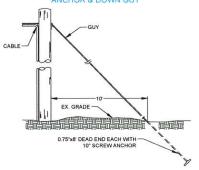
TYPICAL DETAIL "F"

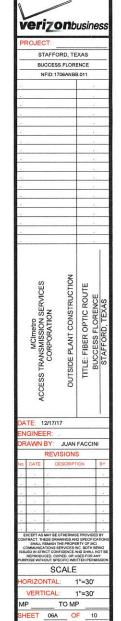
TYPICAL ARRANGEMENT OF CABLE LASHER AND CABLE GUIDE



TYPICAL DETAIL "I"

ANCHOR & DOWN GUY

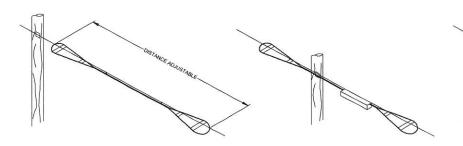




E: FLORENCE 1706ANBB.011

AERIAL IN-LINE SLACK STORAGE DETAILS TYPICAL DETAIL "B" TYPICAL DETAIL "C" TYPICAL DETAIL "A"

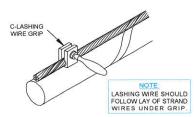
IN-LINE SPLICE APPLICATION



BUTT SPLICE APPLICATION

TYPICAL DETAIL "D"

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

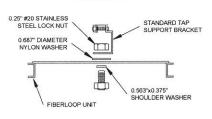


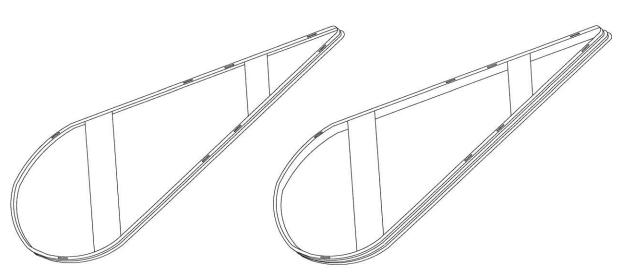
TYPICAL DETAIL "E"

RESERVE CABLE LENGTH STRAND STORAGE APPLICATION

HARDWARE KIT

TYPICAL DETAIL "F" SINGLE & DOUBLE FIBER LOOPS





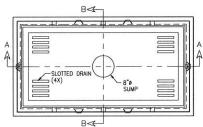
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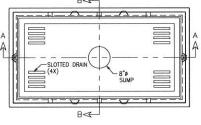
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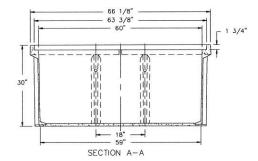
HEET 06B ILE: FLORENCE_1706ANBB.011

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

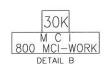
DETAIL "A" LOCKING DEVICE CROSS SECTION



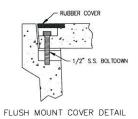


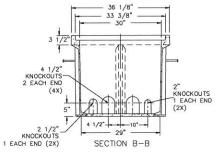






DETAIL "B" FLUSH MOUNT COVER DETAIL



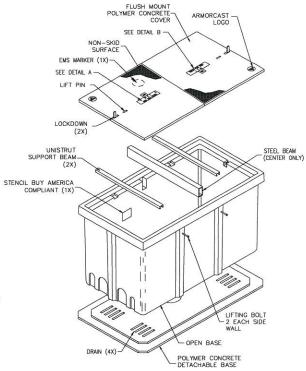


SEALED PLASTIC BAG PLACED INSIDE VAULT TO CONTAIN

ITEM QTY

- (1) JOHNNY LOCK KEY
 (2) S.S. JOHNNY BOLTS W/FLAT WASHER.
- SHRINK WRAP COVERS TO FRAME FOR PACKAGING.

DETAIL "C" EXPLODED ISOMETRIC DETAIL



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

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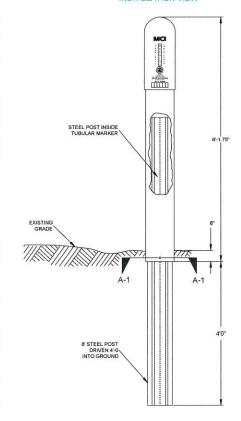
ORIZONTAL VERTICAL:

HEET 07 ILE: FLORENCE_1706ANBB.011

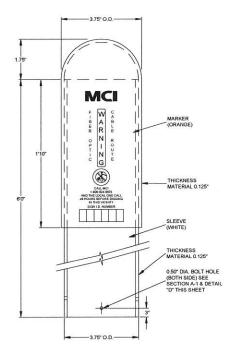
1"=30" TO MP OF

TUBULAR MARKER DETAILS

DETAIL "A" INSTALLATION VIEW

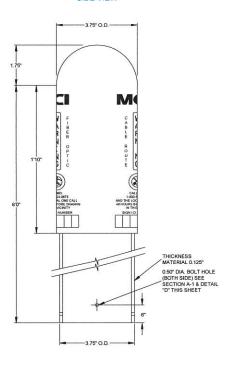


DETAIL "B"



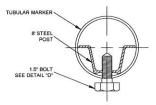
DETAIL "C"

SIDE VIEW



SECTION A-1

TUBULAR MARKER



DETAIL "D"

1.5" BOLT



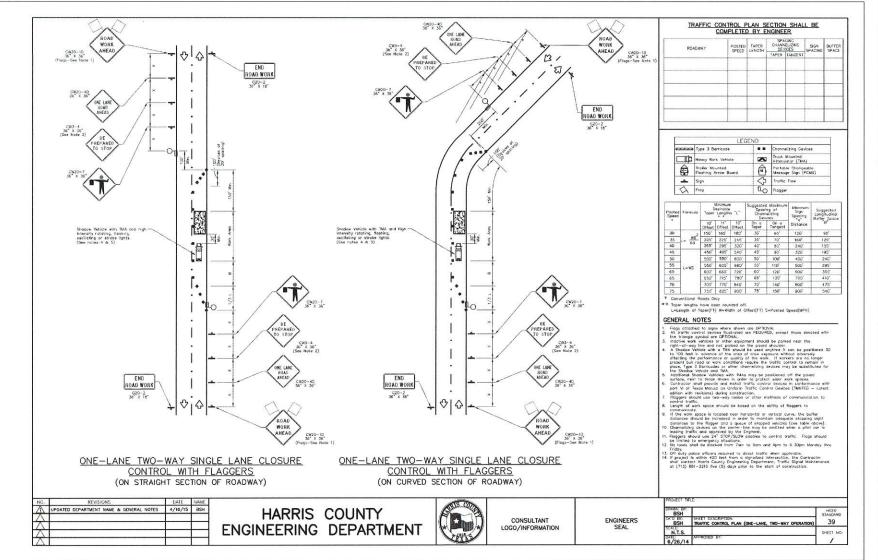
verizonbusiness STAFFORD, TEXAS BUCCESS FLORENCE NFID: 1706ANBB.011 OUTSIDE PLANT CONSTRUCTION MCImetro ACCESS TRANSMISSION SERVICES CORPORATION TITLE: FIBER OPTIC ROUTE BUCCESS FLORENCE STAFFORD, TEXAS

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SCALE
ORIZONTAL: 1"=30"
VERTICAL: 1"=30"

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ENGINEER: .								
DRAWN BY: JUAN FACCINI								
	REVISIONS							
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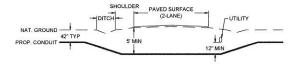
70NTAL: 1"=30"

ILE: FLORENCE 1706ANBB.011.

ROAD CROSSING DETAILS

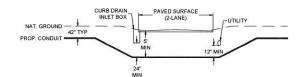
TYPICAL DETAIL "A"

TWO LANE - ASPHALT ROAD - NO CURB



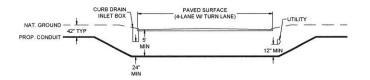
TYPICAL DETAIL "B"

TWO LANE - CURBED ROAD



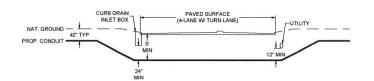
TYPICAL DETAIL "C"

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



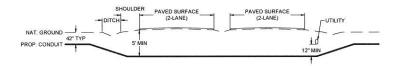
TYPICAL DETAIL "D

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



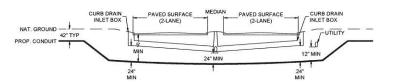
TYPICAL DETAIL "E"

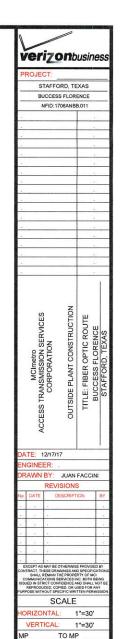
4 LANE - SPLIT ASPHALT ROAD - NO CURB



TYPICAL DETAIL "F"

4 LANE - SPLIT CURBED ROAD



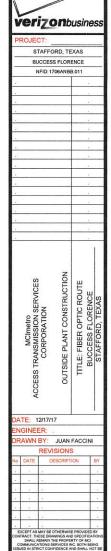


HEET 08A OF 10

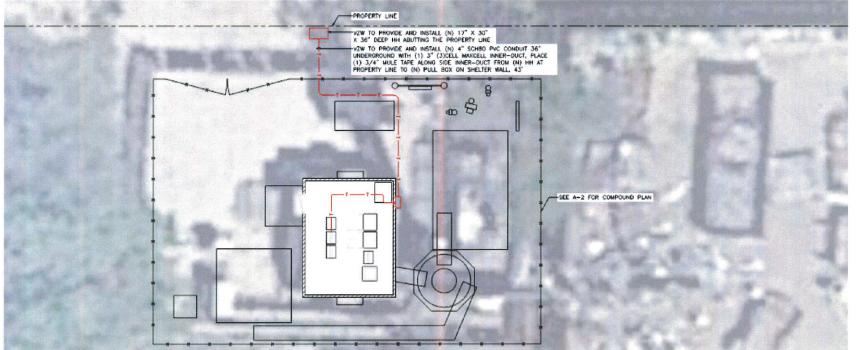
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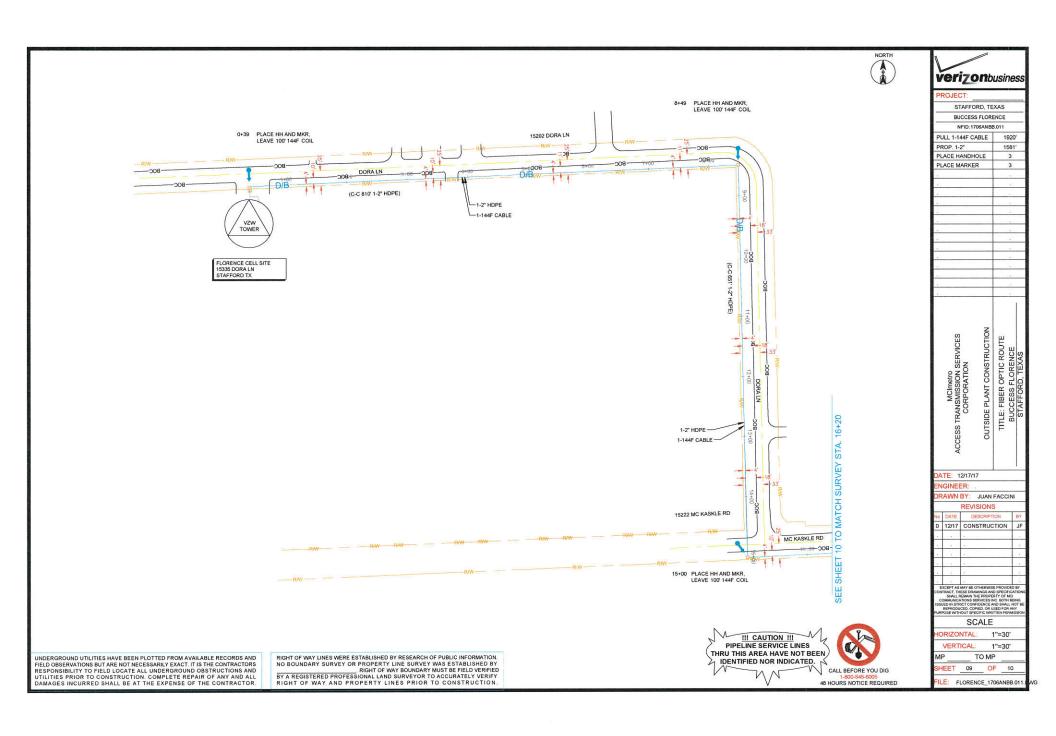
CELL SITES DETAILS FLORENCE





SCALE DRIZONTAL: 1









BUCCESS FLORENCE

NFID: 1706ANBB.011

PULL 1-144F CABLE 863'

PROP. 1-2" 763'

ACCESS TRANSMISSION SERVICES
CORPORATION
OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC ROUTE
BUCCESS FLORENCE
STAFFORD, TEXAS

DATE: 12/17/17

ENGINEER: .
DRAWN BY: JUAN FACCINI

REVISIONS

No DATE DESCRIPTION BY
0 12/17 CONSTRUCTION JF

EXCEPT AS MAY BE OTHERWISE PROVIDED I

CONTRACT. THESE DRAWINGS AND SPECIFICATION
SHALL REMAIN THE PROPERTY OF MCI
COMMUNICATIONS SERVICES INC. BOTH BEING
ISSUED IN STRICT CONFIDENCE AND SHALL NOT BI
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PURPOSE WITHOUT SPECIFIC WRITTEN PERMISSION

SCALE ORIZONTAL: 1'

III CAUTION III
PIPELINE SERVICE LINES

THRU THIS AREA HAVE NOT BEEN IDENTIFIED NOR INDICATED.

CALL BEFORE YOU DIG 1-800-545-6005 48 HOURS NOTICE REQUIRED ORIZONTAL: 1"=30'
VERTICAL: 1"=30'

MP TO MP

SHEET 10 OF 10

ILE: FLORENCE_1706ANBB.011.

RIGHT OF WAY LINES WERE ESTABLISHED BY RESEARCH OF PUBLIC INFORMATION. NO BOUNDARY SURVEY OR PROPERTY LINE SURVEY WAS ESTABLISHED BY ... RIGHT OF WAY BOUNDARY MUST EF FIELD VERHIFED BY A REGISTERED PROFESSIONAL LAND SURVEYOR TO ACCURATELY VERHIFY RIGHT OF WAY AND PROPERTY LINES PRIOR TO CONSTRUCTION.

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