FOR ADDISON USE ONLY
Permit Number: W-1495
Location: Multiple - Quorum-Addison Dr MIDWAY - Sojourn

APPLICATION
Right of Way Work Permit-FRANCHISE
(For Franchise Utility/CTP – Street Cut/Excavation/Lane Closure)

PLEASE PRINT LEGIBLY

Date of Application: ~~June 6, 2018~~ Revised application - July 30, 2018

Facility Owner Company: MCImetro Access Transmission Services Corp. Company Phone #: (214) 237-7746

Utility/CTP Representative: Bill Kiraly Cell Phone #: (972) 207-0253

Utility/CTP Representative E-mail: bill.f.kiraly@verizon.com

General Contractor: Future Telecom Company Phone # (972) 329-6400

Site Supervisor Name: Jeromie Cagle 24-hour Phone # (469) 265-8727

Contractor E-mail: ricky@futuretelco.com Site Foreman E-mail: jeromie@futuretelco.com

Work Site Address and Location: (At Inwood) Landmark to Quorum; North on Quorum to Addison Cr; East on Addison Cr to Addison Rd; South on Addison Rd to Lindburgh Dr; East on Lindburgh Dr to Midway Rd; North on Midway Rd to Sojourn Dr; Eason on Sojourn Dr to Dallas Pkwy; North on Dallas Pkwy to Addison City Limits

Purpose and general description of work: Placing new hand holes, installing 1-2.5" or 2-2" HDPE by directional bore and pulling new cable by pulling thru existing conduit.

Proposed Start Work Date: ~~June 25, 2018~~ August 14, 2018 Estimated Completion Date: ~~October 1, 2018~~ November 2, 2018

Pavement Cut? ☐Yes ☒No Directional Bore/Boring? ☒Yes ☐No Excavation? ☐Yes ☒No

Lane Closure? ☒Yes ☐No Other:

Ricky Riggs		President
Applicant's Printed Name	Signature	Position with Company

Applicant's E-mail: ricky@futuretelco.com Applicant's Phone #: (972) 877-9408

Don Riggs	(972) 329-6400	Future Telecom
Direct Supervisor's Name	Phone Number	Company Name

Supervisor's E-mail: don@futuretelco.com

FOR ADDISON USE ONLY

Received By: BW via Email Entered? ☐Yes Received Date: 7/30/18 8:53Am

Approved By: [illegible] Inspector: JF/DW Issue Date: 8/3/18

Plans Submitted? ☒Yes ☐No ☐N/A Traffic Control Plan submitted? ☒Yes ☐No ☐N/A Expiration Date: 8/17/18

Insurance Provided? ☐Yes ☐No ☒On File Performance/Maintenance Bond? ☐Yes ☐No ☐On File ☒N/A

Fee Paid: N/A Receipt #: CTP Processed By:

Picked Up By: Michael Duval Company: Cobb Fendley Date & Time: 8.6.18

TOWN OF ADDISON INFRASTRUCTURE AND DEVELOPMENT SERVICES DEPARTMENT
ATTN.: RIGHT OF WAY PERMIT - DAVE WILDE 972-450-2847
16801 WESTGROVE RD. ADDISON, TX 75001-9010
PHONE: 972-450-2871 FAX: 972-450-2837

RIGHT OF WAY, EXCAVATION & LANE CLOSURE PERMIT

ADDISON

INFRASTRUCTURE & DEVELOPMENT SERVICES

16801 WESTGROVE DRIVE
ADDISON, TEXAS 75001
972.450.2871

W-1495

PERMIT NUMBER

8/14/18

START DATE

11/02/18 FUTURE TELECOM MCIMETRO

EST. COMPLETION DATE | CONTRACTOR | FOR

ADDISON – MULTIPLE STREETS

LOCATION (ADDRESS)

Landmark-Quorum-Addison Circle Dr-Addison Rd-Lindbergh-Midway-Sojourn

LOCATION (ACTUAL)

PULL THRU EXISTING CONDUIT & INSTALL NEW UG CABLE FACILITIES

TYPE OF WORK

THIS CARD MUST BE DISPLAYED ON THE JOB SITE AT ALL TIMES.

MCImetro
ACCESS TRANSMISSION SERVICES CORPORATION

OUTSIDE PLANT CONSTRUCTION
FIBER OPTIC CABLE ROUTE

VZB 4477 ALPHA RD - HUB 044
LEG B
ADDISON, TX

SITE CODE: 1707AIFX.161, 1707AIFX.186,
& 1707AIFX.188

PERMIT SET

DATE: 7/30/2018

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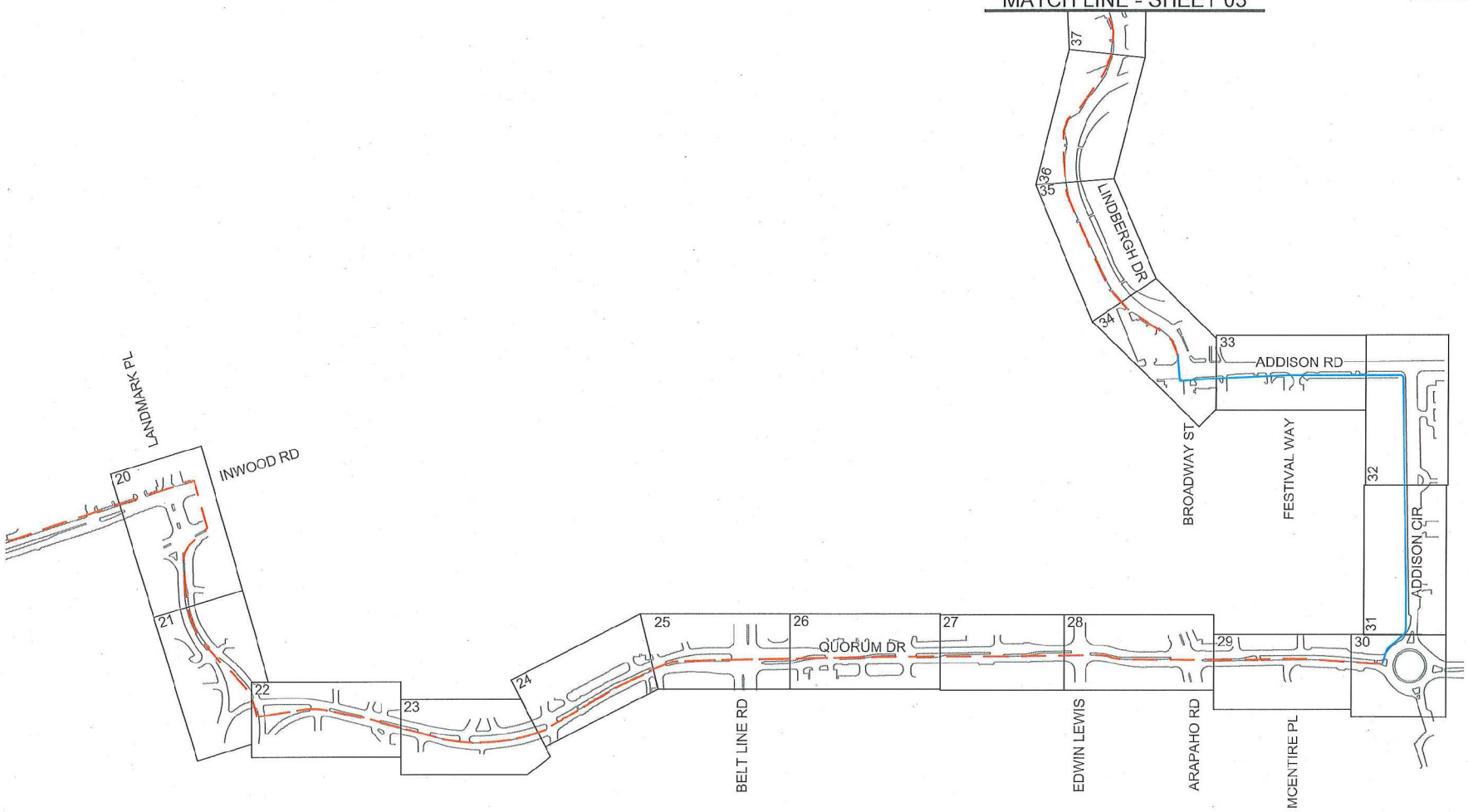
LEG B_PERMIT SET_ADDISON.DWG

PROJECT LAYOUT



MAP LINE LEGEND

- PROPOSED CONDUIT
- EXISTING CONDUIT
- PROPOSED CONDUIT OUTSIDE TOWN LIMITS
- EXISTING CONDUIT OUTSIDE TOWN LIMITS

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PROJECT: HUB 044 - LEG B

ADDISON, TX

1707AIFX.161, 1707AIFX.186, & 1707AIFX.188

CLARIFICATION NO.	QUANTITY

MCImetro
ACCESS TRANSMISSION SERVICES CORPORATION

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC CABLE ROUTE
VERIZON BUSINESS - LEG B
ADDISON, TX

DATE: 7/30/2018
ENGINEER: COBBFENDLEY
CHECKED BY: PM
DRAWN BY: PN

REVISIONS

No.	DATE	DESCRIPTION	BY

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.

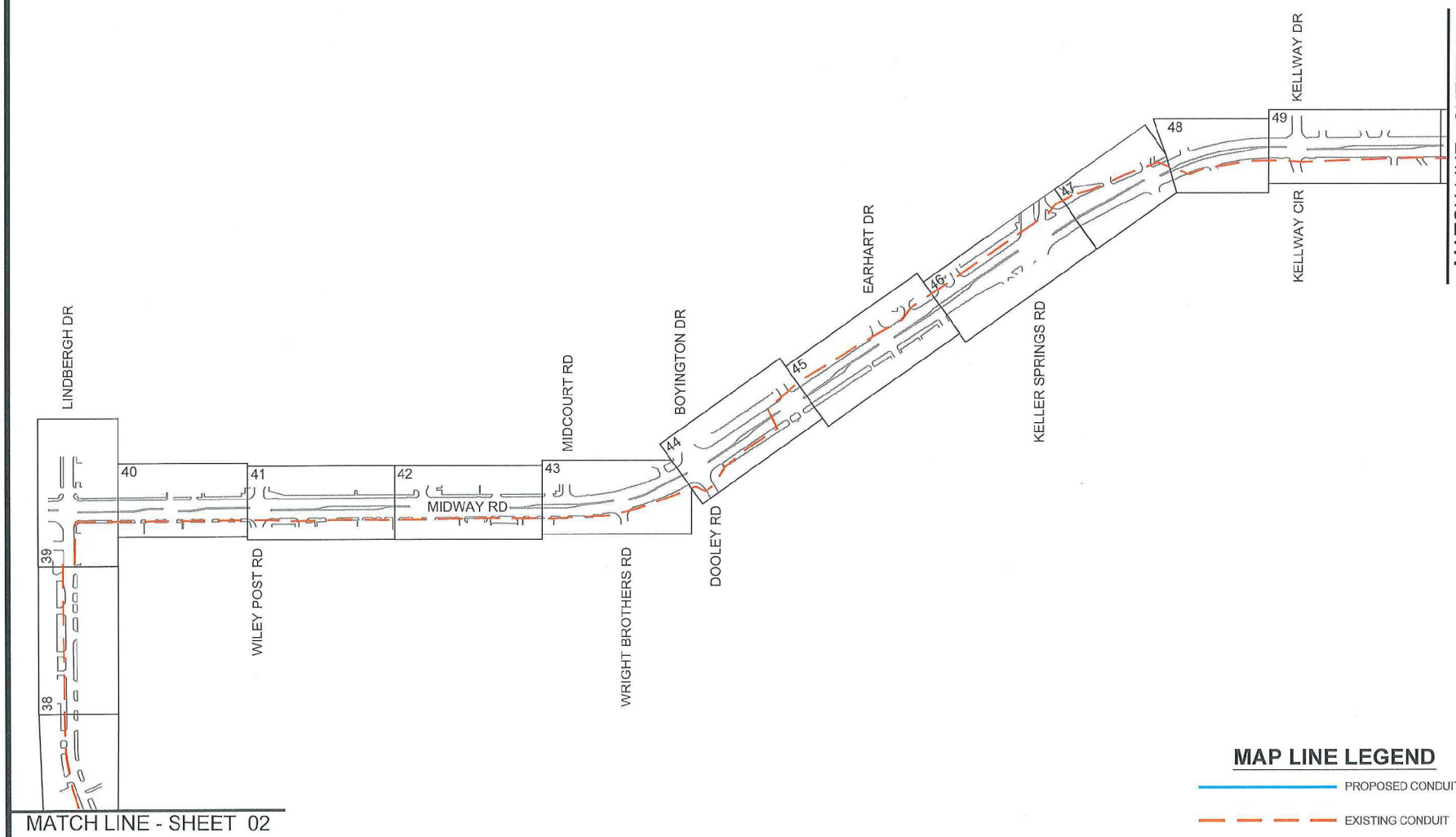
SCALE

HORIZONTAL: N/A
VERTICAL: N/A

SHEET 02 OF 65

FILE: LEG 3_PERMIT SET_ADDISON.DWG

PROJECT LAYOUT



MAP LINE LEGEND

- PROPOSED CONDUIT
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- PROPOSED CONDUIT OUTSIDE TOWN LIMITS
- EXISTING CONDUIT OUTSIDE TOWN LIMITS

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PROJECT: HUB 044 - LEG B

ADDISON, TX

1707AIFX.161, 1707AIFX.186, & 1707AIFX.188

CLARIFICATION NO.	QUANTITY

MCImetro
ACCESS TRANSMISSION SERVICES CORPORATION

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC CABLE ROUTE
VERIZON BUSINESS - LEG B
ADDISON, TX

DATE: 7/30/2018

ENGINEER: COBBFENDLEY

CHECKED BY: PM

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SCALE

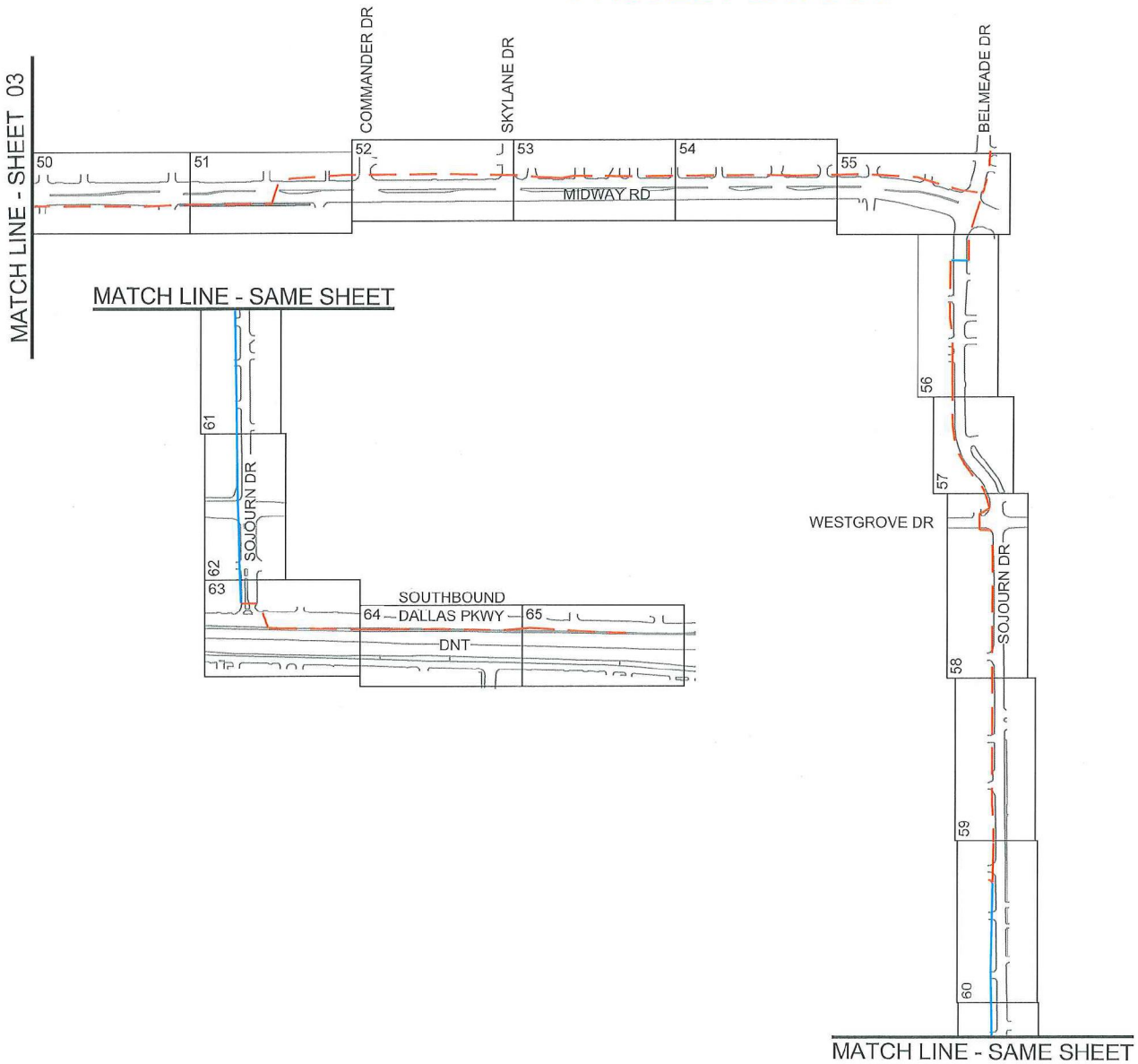
HORIZONTAL: N/A

VERTICAL: N/A

SHEET 03 OF 65

FILE: LEG B_PERMIT SET_ADDISON.DWG

PROJECT LAYOUT



MAP LINE LEGEND

- PROPOSED CONDUIT
- EXISTING CONDUIT
- PROPOSED CONDUIT OUTSIDE TOWN LIMITS
- EXISTING CONDUIT OUTSIDE TOWN LIMITS

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PROJECT: HUB 044 - LEG B

ADDISON, TX

1707AIFX.161, 1707AIFX.186, & 1707AIFX.188

CLARIFICATION NO.	QUANTITY

MCImetro ACCESS TRANSMISSION SERVICES CORPORATION

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC CABLE ROUTE VERIZON BUSINESS - LEG B ADDISON, TX

DATE: 7/30/2018

ENGINEER: COB3FENDLEY

CHECKED BY: PM

DRAWN BY: PN

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SCALE

HORIZONTAL: N/A

VERTICAL: N/A

SHEET 04 OF 65

FILE: LEG B_PERMIT SET_ADDISON.DWG

CLARIFICATION SUMMARY SHEET

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PROJECT: HUB 044 - LEG B

ADDISON, TX

1707AIFX.181, 1707AIFX.186, & 1707AIFX.188

CLARIFICATION NO.	QUANTITY

MCImetro
ACCESS TRANSMISSION SERVICES CORPORATION

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC CABLE ROUTE
VERIZON BUSINESS - LEG B
ADDISON, TX

DATE: 7/30/2018

ENGINEER: COBBFENDLEY

CHECKED BY: PM

DRAWN BY: PN

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SCALE

HORIZONTAL: N/A

VERTICAL: N/A

SHEET 05 OF 35

FILE: LEG B_PERMIT SET_ADDISON.DWG

CONTACT SHEET

VERIZON BUSINESS

OUTSIDE PLANT ENGINEERING

JEFF BUEHLER
CELL: (214) 955-2518
E-MAIL: JEFF.BUEHLER@VERIZON.COM

OUTSIDE PLANT CONSTRUCTION

PAUL BOWLES
E-MAIL: PAUL.BOWLES@ONE.VERIZON.COM

RIGHT-OF-WAY

AGENT:

MANAGER:

CONTRACTS

COORDINATOR:

MANAGER:

OTHERS

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

ENGINEERING CONTRACTOR

ENGINEERING FIRM:
COBB, FENDLEY & ASSOCIATES, INC.
13430 NORTHWEST FREEWAY, SUITE 1100
HOUSTON, TX 77040
OFFICE: (713) 462-3242
FAX: (713) 462-3262

ENGINEERING CONTACT:

VICE PRESIDENT
VINEETA JAYARAM, P.E.
CELL: (832) 330-6400
E-MAIL: VJAYARAM@COBBFENDLEY.COM

PROJECT MANAGER
BETH BOWDEN
PHONE: (972) 335-3214
E-MAIL: BBOWDEN@COBBFENDLEY.COM

UTILITY DESIGN GROUP LEAD
PRIYA MISTRY, P.E.
PHONE: (972) 335-3214
E-MAIL: PMISTRY@COBBFENDLEY.COM

CONSTRUCTION CONTRACTOR

NAME OF FIRM:
FUTURE TELECOM, LLC
1800 BRUTON ROAD
BALCH SPRINGS, TX 75180
OFFICE: (972) 329-6400
FAX: (972) 329-6401

CONSTRUCTION CONTACT:

RICKY RIGGS
CELL: (972) 677-9408
E-MAIL: RICKY@FUTURETELCO.COM

JEROMIE CAGLE
PHONE: (469) 658-8727

RAILROADS

N/A

UTILITIES

MCI UTILITY LOCATE 1-800-624-9575

TEXAS ONE CALL SYSTEM (UTILITY LOCATES) 811

NON MEMBERS:

CITY GOVERNMENT

TOWN OF ADDISON, TX

COUNTY GOVERNMENT

N/A

STATE GOVERNMENT

N/A

FEDERAL GOVERNMENT

N/A

OTHER

N/A

verizonbusiness

PROJECT: HUB 044 - LEG B
ADDISON, TX
1707AIFX.161, 1707AIFX.186, & 1707AIFX.188

CLARIFICATION NO.	QUANTITY

MCImetro
ACCESS TRANSMISSION SERVICES CORPORATION

OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
VERIZON BUSINESS - LEG B
ADDISON, TX

DATE: 7/30/2018
ENGINEER: COBBFENDLEY
CHECKED BY: PM
DRAWN BY: PN

REVISIONS

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SCALE
HORIZONTAL: N/A
VERTICAL: N/A
SHEET 06 OF 65
FILE: LEG B_PERMIT SET_ADDISON.DWG

GENERAL NOTES / CLARIFICATION NOTES

GENERAL NOTES

1. 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.

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

ADDENDUM NOTES: 48 HOUR NOTICE

1. CONTRACTOR SHALL NOTIFY ADDISON (48 HOURS) PRIOR TO COMMENCING CONSTRUCTION AND/OR BACKFILLING ANY UTILITIES.
2. CONTRACTOR(S) ARE TO CONTACT ADDISON "PUBLIC WORKS DEPARTMENT" BY PHONE OR EMAIL.
   (972) 450-2847
   DWILDE@ADDISONTX.GOV

CLARIFICATION NOTES (CONTINUED)

JACK AND DRY BORE CONDUIT(S)

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

ATTACH CONDUIT TO WALL OR STRUCTURE
DETACH CONDUIT FROM WALL OR STRUCTURE
CORE BORE
ATTACH PULL/SPLICE BOX TO WALL OR STRUCTURE

PULL CABLE
PULL THROUGH DUCT (INNERDUCT)
REMOVE CABLE FROM CONDUIT
REPOSITION ACTIVE CABLE SLACK

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

JETTING CONDUIT
EMBEDMENT PLOW
DIRECTIONAL BORE

PLACE BURIED CABLE MARKERS AND SIGNS/MWCOM
WATER CROSSING SIGNS
PLACE ISOLATOR/PROTECTION SYSTEM AT EXISTING HANDHOLES/MANHOLES
REMOVE BURIED CABLE MARKER POST/HARDWARE
REMOVE CONCRETE BURIED CABLE MARKER POST

verizonbusiness

PROJECT: HUB 044 - LEG B
ADDISON, TX
1707AIFX.161, 1707AIFX.186, & 1707AIFX.188

CLARIFICATION NO.	QUANTITY

MCImetro
ACCESS TRANSMISSION SERVICES CORPORATION

OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
VERIZON BUSINESS - LEG B
ADDISON, TX

DATE: 7/30/2018
ENGINEER: COBBFENDLEY
CHECKED BY: PM
DRAWN BY: PN

REVISIONS

No.	DATE	DESCRIPTION	BY

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SCALE
HORIZONTAL: N/A
VERTICAL: N/A

SHEET 07 OF 65

FILE: LEG B_PERMIT SET_ADDISON.DWG

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

verizonbusiness

PROJECT: HUB 044 - LEG B

ADDISON, TX

1707AIFX.161, 1707AIFX.186, & 1707AIFX.198

CLARIFICATION NO.	QUANTITY

MCImetro
ACCESS TRANSMISSION SERVICES CORPORATION

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC CABLE ROUTE
VERIZON BUSINESS - LEG B
ADDISON, TX

DATE: 7/30/2018

ENGINEER: COBBFENDLEY

CHECKED BY: PM

DRAWN BY: PN

REVISIONS

No.	DATE	DESCRIPTION	BY

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SCALE

HORIZONTAL: N/A

VERTICAL: N/A

SHEET 08 OF 65

FILE: LEG B_PERMIT SET_ADDISON.DWG

SYMBOLS KEY

	EXISTING	PROPOSED
DIRECT BURIED CABLE		
AERIAL CABLE	A	A
SUBMARINE CABLE	SUBM	SUBM
FOGWIRE CABLE	FOGW	FOGW
DIRECT BURIED HDPE	H	H
PVC OR SPLIT PVC CONDUIT		
BSP/GSP OR SPLIT BSP/GSP CONDUIT		
STEEL CASING		
REMOVE AND RESTORE ASPHALT OR CONCRETE (WIDTH AS INDICATED)	48"	48"
CORE BORE		
JACK AND BORE		
DIRECTIONAL BORE (& PLACE CONDUIT)	DB	DB
FUTURE CABLE		
REMOVE CABLE		
TO BE REMOVED OR ABANDONED (SHOWN FOR HDPE)	H	H
AERIAL UTILITY (ELECTRIC)	E	E
UNDERGROUND UTILITY (TELEPHONE)	T	T
MAIN TRACKS		
AUXILLARY TRACKS		
CENTERLINE	C/L	
RIGHT-OF-WAY	R/W	
EDGE OF ROADWAY (GENERIC)		
EDGE OF PAVEMENT	EOP	
BACK OF CURB	BOC	
DITCH LINE		
TAX, CITY, COUNTY, OR STATE BOUNDARY LINE		
PROPERTY LINE		
FENCE LINE	F/L —O— F/L	F/L —O—
GUARDRAIL		
TOP OF SLOPE		
TOE OF SLOPE		

	EXISTING	PROPOSED
(A) STEEL MARKER AND SIGN (B) ALUMINUM "HUB"-STYLE MARKER (C) FLAT MARKER (D) TUBULAR MARKER (E) TUBULAR MARKER, & ISOLATOR PROTECTOR	STA. MKR. # (A) (B) (C) (D) (E)	STA. MKR. # (A) (B) (C) (D) (E)
MILE POST MARKER NOTE: DASHED = NOT FOUND IN FIELD	21 21	21
PERMIT TRACKING FORM IDENTIFIER	P.T.F. 187	P.T.F. 187
ROCK PROBE (DEPTH AS INDICATED)	42"	42"
UTILITY COVER DEPTH	48"	48"
HANDHOLE, MANHOLE OR PULLBOX		
POLE		
ANCHOR ONLY		
GUY ONLY		
OVERHEAD GUY (ARROW IN DIRECTION OF PULL)	OHG 92' 10M	OHG 92' 10M
ANCHOR AND GUY		
SIDEWALK ANCHOR AND GUY		
FOREIGN ANCHOR AND GUY		
PUSH BRACE (EXISTING POLE)	30'-5-84 PB	30'-5-84 PB
ACCOUNT CODE CHANGE (BURIED TO AERIAL)	A	A
RISER ATTACHMENT LOCATION	R	R
BOND AND GROUND	B&G	
CULVERT (SIZE AS INDICATED)	12"	
BRIDGE		
WATER METER		
GAS VALVE		
FIRE HYDRANT		
RAILROAD SIGNAL CONTROL BOX		
CAUTION NOTE	U/G UTILITIES CAUTION IN AREA	

verizonbusiness

PROJECT: HUB 044 - LEG B

ADDISON, TX

1707AIFX.161, 1707AIFX.186, & 1707AIFX.168

CLARIFICATION NO.	QUANTITY

MCImetro
ACCESS TRANSMISSION SERVICES CORPORATION

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC CABLE ROUTE
VERIZON BUSINESS - LEG B
ADDISON, TX

DATE: 7/30/2018

ENGINEER: COBBFENDLEY

CHECKED BY: PM

DRAWN BY: PN

REVISIONS

No.	DATE	DESCRIPTION	BY

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SCALE

HORIZONTAL: N/A

VERTICAL: N/A

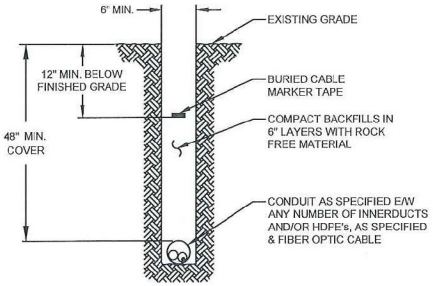
SHEET 09 OF 65

FILE: LEG 3_PERMIT SET_ADDISON.DWG

CONSTRUCTION DETAILS

TYPICAL DETAIL "A"

TRENCH & PLACE CONDUIT

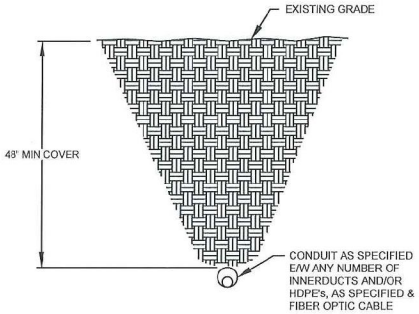


TYPICAL DETAIL "B"

CROSS SECTION OF PROPOSED HDPE

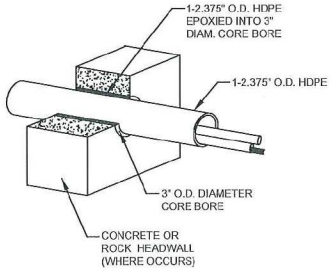
TYPICAL DETAIL "C"

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.

verizonbusiness

PROJECT: HUB 044 - LEG B

ADDISON, TX

1707AIFX.161, 1707AIFX.186, & 1707AIFX.138

CLARIFICATION NO.	QUANTITY

MCImetro ACCESS TRANSMISSION SERVICES CORPORATION

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC CABLE ROUTE VERIZON BUSINESS - LEG B ADDISON, TX

DATE: 7/30/2018

ENGINEER: COBBFENDLEY

CHECKED BY: PM

DRAWN BY: PN

REVISIONS

No.	DATE	DESCRIPTION	BY

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SCALE

HORIZONTAL: N/A

VERTICAL: N/A

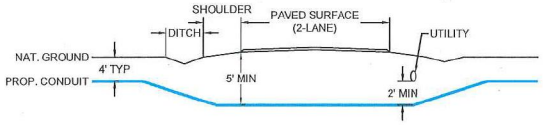
SHEET 10 OF 65

FILE: LEG B_PERMIT SET_ADDISON.DWG

ROAD CROSSING DETAILS

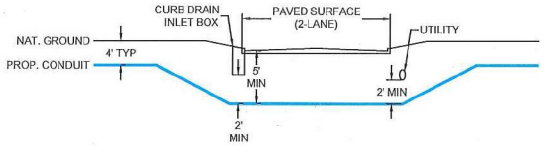
TYPICAL DETAIL "A"

TWO LANE - ASPHALT ROAD - NO CURB



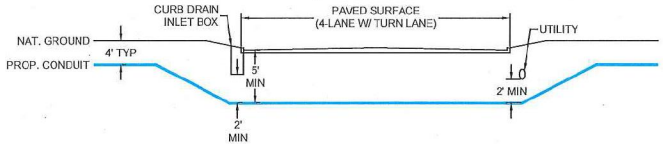
TYPICAL DETAIL "B"

TWO LANE - CURBED ROAD



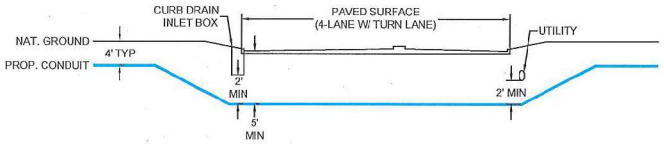
TYPICAL DETAIL "C"

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



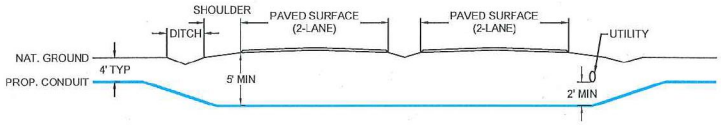
TYPICAL DETAIL "D"

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



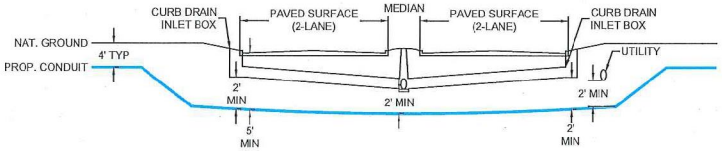
TYPICAL DETAIL "E"

4 LANE - SPLIT ASPHALT ROAD - NO CURB



TYPICAL DETAIL "F"

4 LANE - SPLIT CURBED ROAD



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PROJECT: HUB 044 - LEG B

ADDISON, TX

1707AIFX.161, 1707AIFX.186,

& 1707AIFX.138

CLARIFICATION NO.	QUANTITY

MCImetro
ACCESS TRANSMISSION SERVICES
CORPORATION

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC CABLE ROUTE
VERIZON BUSINESS - LEG B
ADDISON, TX

DATE: 7/30/2018

ENGINEER: COBBFENDLEY

CHECKED BY: PM

DRAWN BY: PN

REVISIONS

No.	DATE	DESCRIPTION	BY

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SCALE

HORIZONTAL: N/A

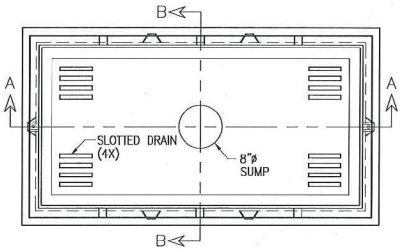
VERTICAL: N/A

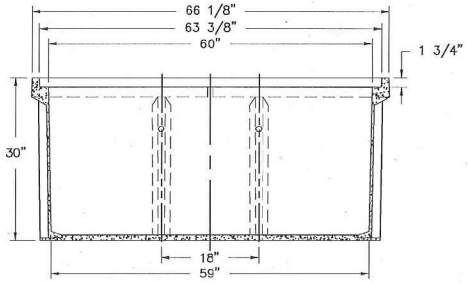
SHEET 11 OF 65

FILE: LEG B_PERMIT SET_ADDISON.DWG

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

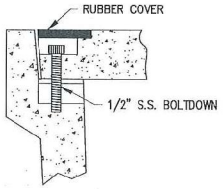
DETAIL "A"
LOCKING DEVICE
CROSS SECTION



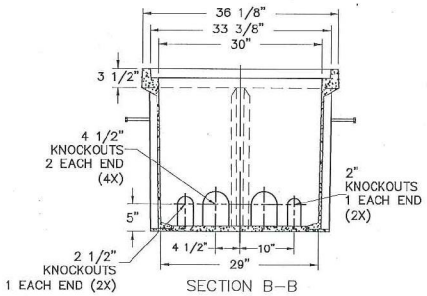


SECTION A–A

DETAIL "B"
FLUSH MOUNT
COVER DETAIL

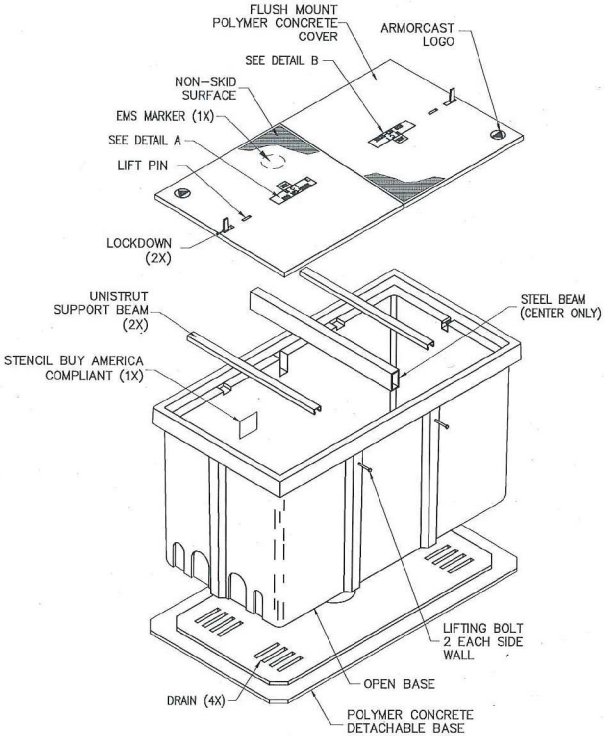


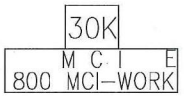
FLUSH MOUNT COVER DETAIL



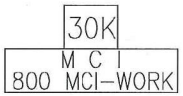
SECTION B–B

DETAIL "C"
EXPLODED ISOMETRIC DETAIL





DETAIL A



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

verizonbusiness

PROJECT: HUB 044 - LEG B
ADDISON, TX
1707AIFX.161, 1707AIFX.186, & 1707AIFX.188

CLARIFICATION NO.	QUANTITY

MCImetro
ACCESS TRANSMISSION SERVICES CORPORATION

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC CABLE ROUTE
VERIZON BUSINESS - LEG B
ADDISON, TX

DATE: 7/30/2018
ENGINEER: COBBFENDLEY
CHECKED BY: PM
DRAWN BY: PN

REVISIONS

No.	DATE	DESCRIPTION	BY

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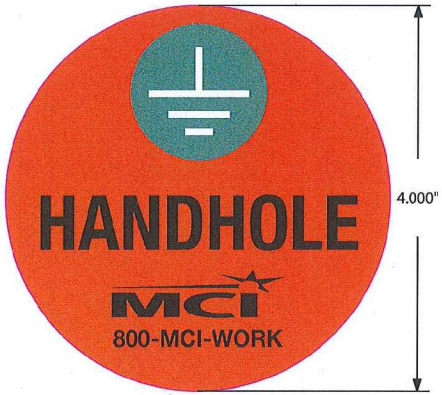
SCALE
HORIZONTAL: N/A
VERTICAL: N/A

SHEET 12 OF 65

FILE: LEG B_PERMIT SET_ADDISON.DWG

CURB MARKER DETAILS



magenta = die line does not print.

WILLIAM FRICK & COMPANY™
Innovations in Identification
(847) 918-3700 • FrickFax: (847) 918-3701

For Plate or Die Ordering

☐ APPROVED AS IS
☐ APPROVED WITH CORRECTIONS
☐ CORRECTED PROOF REQUESTED

Signature Date

NOTE: This is a proof of your artwork. Please review the text size, style, spelling, and locations for errors. Upon receipt of your approval, your order will be printed according to this proof. Your order cannot be processed further until approval is received. *No credit will be given for product which conforms to this proof.*

Part #: VB-MCI-HANDHOLE-GREEN-ORANGE
File: VER-VB-MCI-HANDHOLE-GREEN-ORANGE-A.ai
Date: 04/13/18
Proof: A
Colors: PMS 152 ORANGE, BLACK AND PMS 3415 GREEN
Size: 4" Circle
Scale: 100%
Const.: 15 Mil PVC base, with Durable Doming

Quote #:
Artist: SCL
QC:

Applications

Utility Labeling, Non- critical Safety/ Warning decals, Harsh Environments, Outdoor Use, Ground Level Marking, Utility Markers and Signs

Material Description

Engineering Grade UV- Stable Plastic

Choice of reflective or non- reflective materials. Custom colors are available upon request.

Standard Size	2.5, 3, 4 or 6 inch diameter
Thickness	10-30 mil base plastic with 60 mil urethane dome
Expected Outdoor Durability	Up to 30 years with minimum fading
Service Temperature range	-40°F to 185°F
Available Colors	Blue, Green, Red, Purple, Yellow, Orange or Custom
Ink Colors	Standard is UV- stable Black
Water Resistance	Excellent
Solvents Resistance	Excellent
UV Resistance	Excellent
Abrasion Resistance	Excellent

Adhesive

FS-800 / 93-12 Permanent Adhesive

Adhesive sold seperately

Type	All- Purpose Permanent Adhesive
Thickness	Apply to back at 0.125 inch thickness
Application Temperature	0 to 100°F
Service Temperature	-20°F to 120°F
Permanently bonds to	Wood, plywood, concrete, metals, brick, gypsum, plaster

Shelf life

Stored at 70°F/50% Relative Humidity

The William Frick Curb Marker is completely stable at room temperature.

verizonbusiness

PROJECT: HUB 044 - LEG B
ADDISON, TX
1707AIFX.161, 1707AIFX.186, & 1707AIFX.188

CLARIFICATION NO.	QUANTITY

MCImetro
ACCESS TRANSMISSION SERVICES CORPORATION

OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
VERIZON BUSINESS - LEG B
ADDISON, TX

DATE: 7/30/2018
ENGINEER: COBBFENDLEY
CHECKED BY: PM
DRAWN BY: PN

REVISIONS

No.	DATE	DESCRIPTION	BY
1	7/26/18	ADDISON UTILITIES	HC

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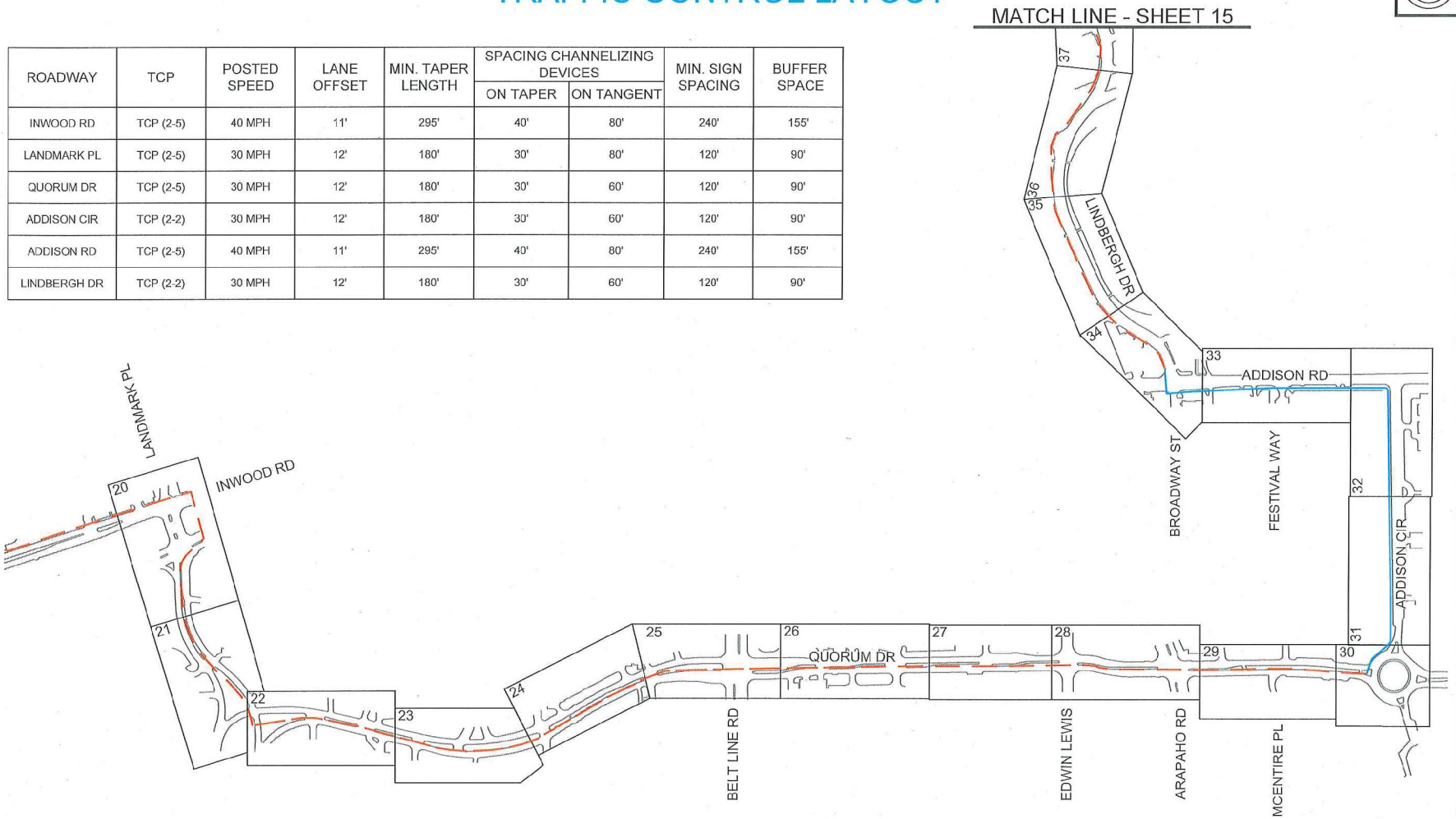
SCALE
HORIZONTAL: N/A
VERTICAL: N/A

FILE: LEG B_PERMIT SET_ADDISON.DWG

TRAFFIC CONTROL LAYOUT

ROADWAY	TCP	POSTED SPEED	LANE OFFSET	MIN. TAPER LENGTH	SPACING CHANNELIZING DEVICES		MIN. SIGN SPACING	BUFFER SPACE
					ON TAPER	ON TANGENT		
INWOOD RD	TCP (2-5)	40 MPH	11'	295'	40'	80'	240'	155'
LANDMARK PL	TCP (2-5)	30 MPH	12'	180'	30'	80'	120'	90'
QUORUM DR	TCP (2-5)	30 MPH	12'	180'	30'	60'	120'	90'
ADDISON CIR	TCP (2-2)	30 MPH	12'	180'	30'	60'	120'	90'
ADDISON RD	TCP (2-5)	40 MPH	11'	295'	40'	80'	240'	155'
LINDBERGH DR	TCP (2-2)	30 MPH	12'	180'	30'	60'	120'	90'



MAP LINE LEGEND

- PROPOSED CONDUIT
- EXISTING CONDUIT
- PROPOSED CONDUIT OUTSIDE TOWN LIMITS
- EXISTING CONDUIT OUTSIDE TOWN LIMITS

verizonbusiness

PROJECT: HUB 044 - LEG B

ADDISON, TX

1707AIFX.161, 1707AIFX.186, & 1707AIFX.188

CLARIFICATION NO.	QUANTITY

MCImetro
ACCESS TRANSMISSION SERVICES CORPORATION

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC CABLE ROUTE
VERIZON BUSINESS - LEG B
ADDISON, TX

DATE: 7/30/2018
ENGINEER: COBBFENDLEY
CHECKED BY: PM
DRAWN BY: PN

REVISIONS

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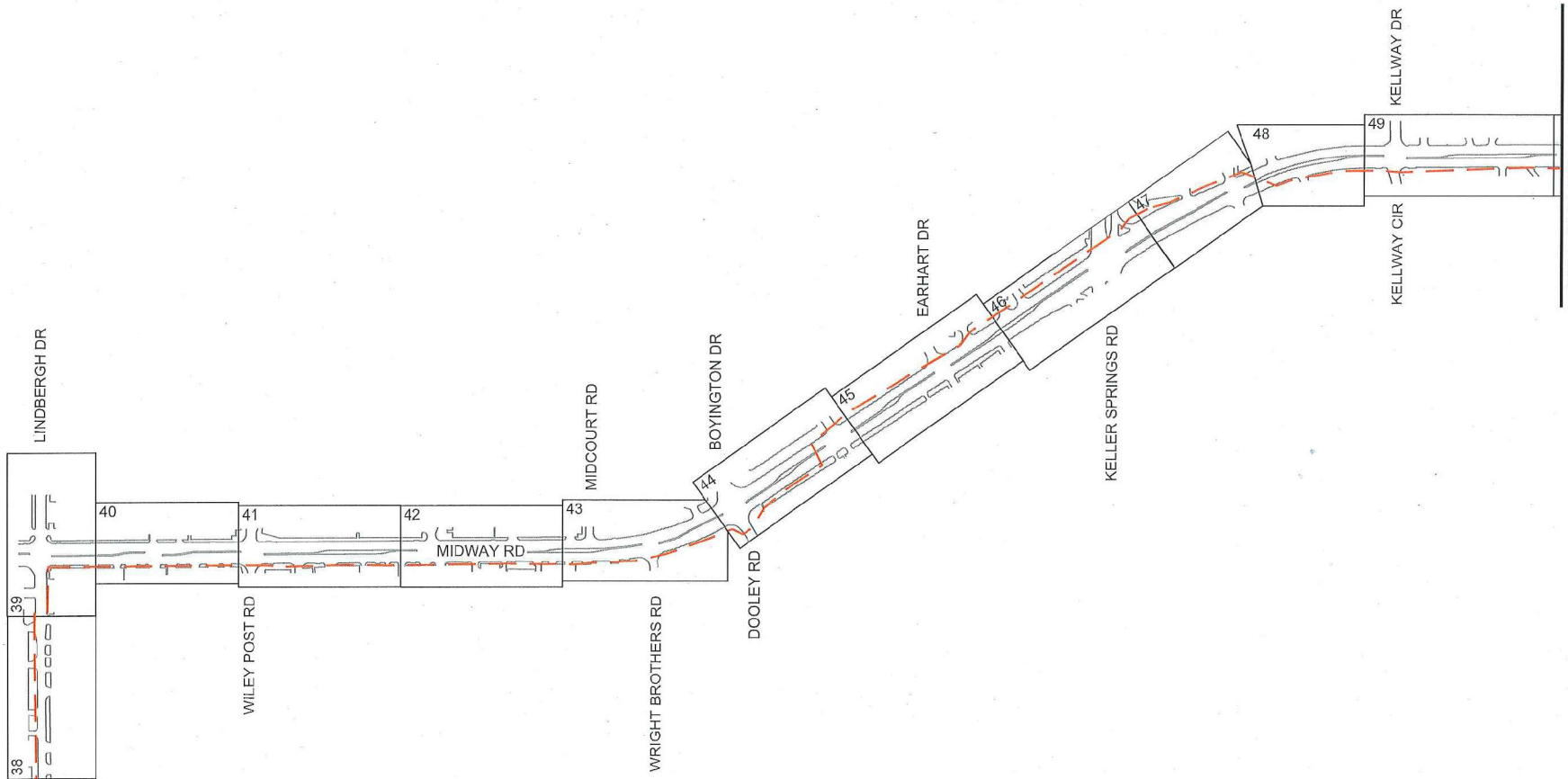
SCALE

HORIZONTAL: N/A
VERTICAL: N/A

SHEET 14 OF 65

FILE: LEG B_PERMIT SET_ADDISON.DWG

TRAFFIC CONTROL LAYOUT



MATCH LINE - SHEET 14

ROADWAY	TCP	POSTED SPEED	LANE OFFSET	MIN. TAPER LENGTH	SPACING CHANNELIZING DEVICES		MIN. SIGN SPACING	BUFFER SPACE
					ON TAPER	ON TANGENT		
LINDBERGH DR	TCP (2-2)	30 MPH	12'	180'	30'	60'	120'	90'
MIDWAY DR	TCP (2-5)	40 MPH	11'	295'	40'	80'	240'	155'

MAP LINE LEGEND

- PROPOSED CONDUIT
- EXISTING CONDUIT
- PROPOSED CONDUIT OUTSIDE TOWN LIMITS
- EXISTING CONDUIT OUTSIDE TOWN LIMITS

verizonbusiness

PROJECT: HUB 044 - LEG B

ADDISON, TX

1707AIFX.161, 1707AIFX.186, & 1707AIFX.188

CLARIFICATION NO.	QUANTITY

MCImetro
ACCESS TRANSMISSION SERVICES CORPORATION

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC CABLE ROUTE
VERIZON BUSINESS - LEG B
ADDISON, TX

DATE: 7/30/2018
ENGINEER: COBBFENDLEY
CHECKED BY: PM
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REVISIONS

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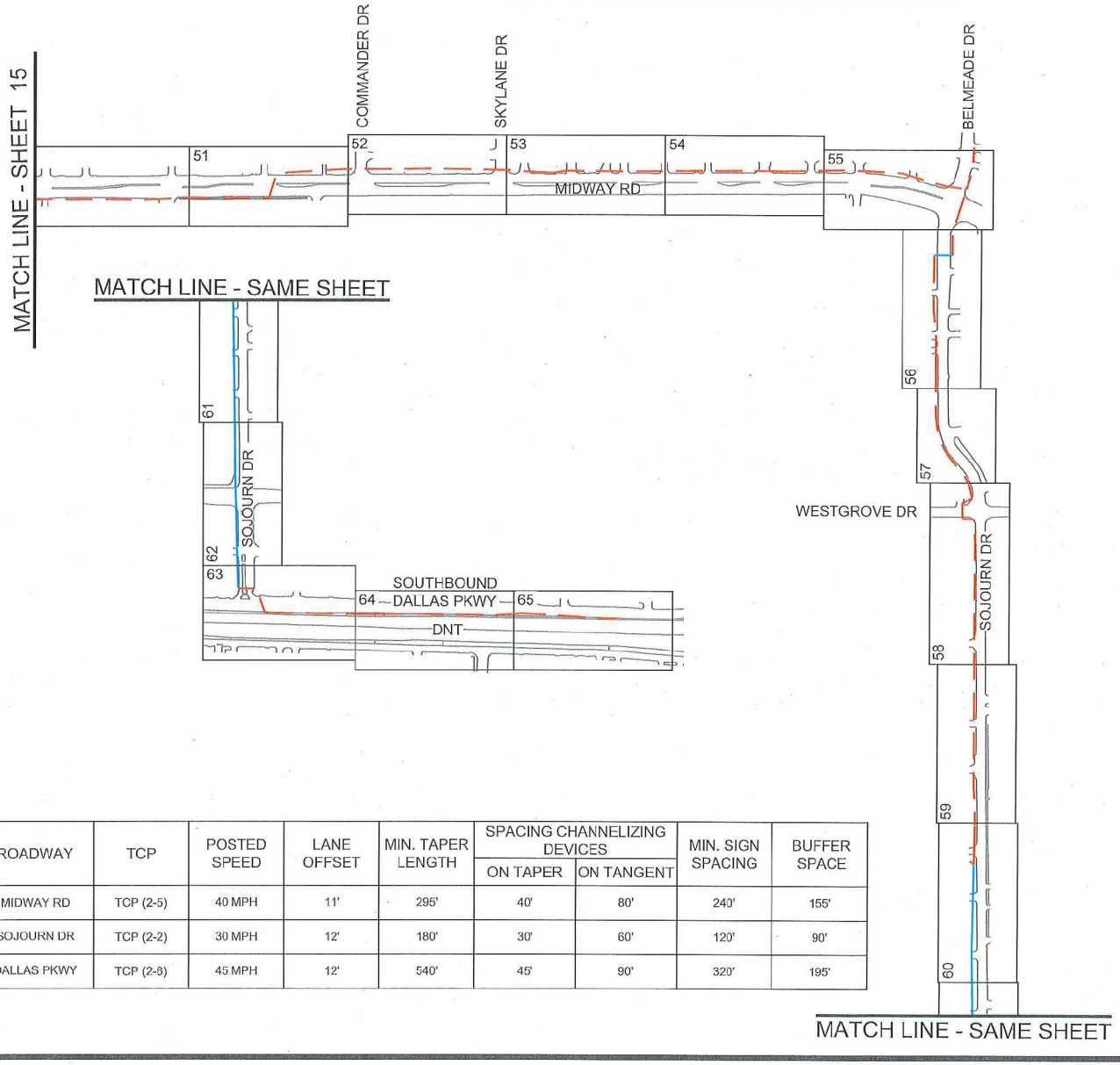
SCALE
HORIZONTAL: N/A
VERTICAL: N/A

SHEET 15 OF 65

FILE: LEG B_PERMIT SET_ADDISON.DWG

TRAFFIC CONTROL LAYOUT



ROADWAY	TCP	POSTED SPEED	LANE OFFSET	MIN. TAPER LENGTH	SPACING CHANNELIZING DEVICES		MIN. SIGN SPACING	BUFFER SPACE
					ON TAPER	ON TANGENT		
MIDWAY RD	TCP (2-5)	40 MPH	11'	295'	40'	80'	240'	155'
SOJOURN DR	TCP (2-2)	30 MPH	12'	180'	30'	60'	120'	90'
DALLAS PKWY	TCP (2-8)	45 MPH	12'	540'	45'	90'	320'	195'

MAP LINE LEGEND

- PROPOSED CONDUIT
- EXISTING CONDUIT
- PROPOSED CONDUIT OUTSIDE TOWN LIMITS
- EXISTING CONDUIT OUTSIDE TOWN LIMITS

verizonbusiness

PROJECT: HUB 044 - LEG B

ADDISON, TX

1707AIFX.161, 1707AIFX.186, & 1707AIFX.188

CLARIFICATION NO.	QUANTITY

MCImetro
ACCESS TRANSMISSION SERVICES CORPORATION

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC CABLE ROUTE
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ADDISON, TX

DATE: 7/30/2018
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SCALE

HORIZONTAL: N/A
VERTICAL: N/A
SHEET 16 OF 65
FILE: LEG B_PERMIT SET_ADDISON.DWG

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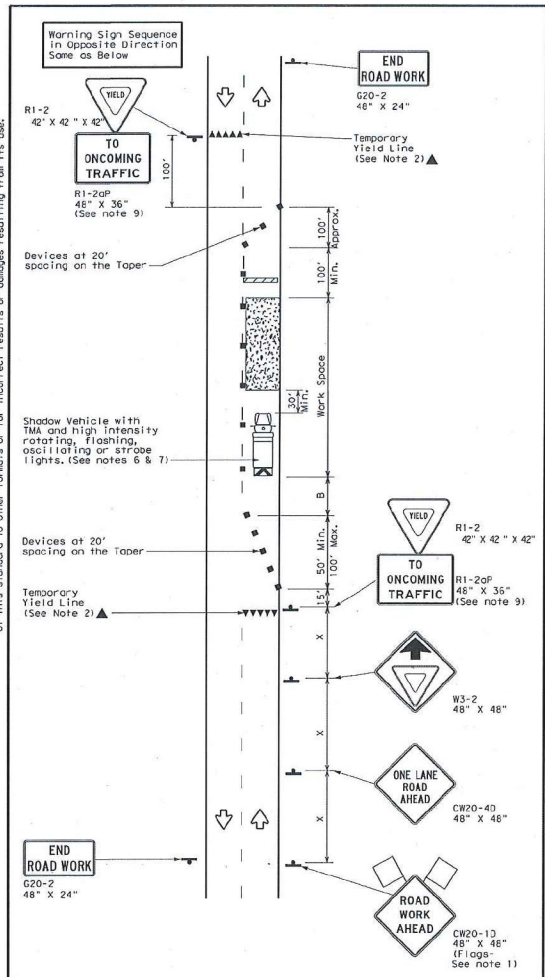
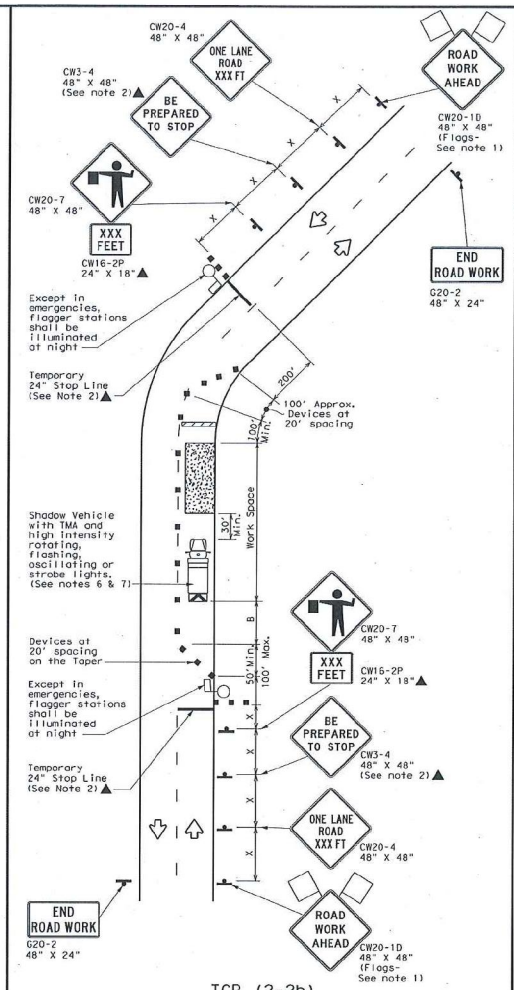


TCP (2-2a)
2-LANE ROADWAY WITHOUT PAVED SHOULDERS
ONE LANE TWO-WAY
CONTROL WITH YIELD SIGNS
(Less than 2000 ADT - See Note 9)



TCP (2-2b)
2-LANE ROADWAY WITHOUT PAVED SHOULDERS
ONE LANE TWO-WAY
CONTROL WITH FLAGGERS

LEGEND

	Type 3 Barricade		Channelizing Devices
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)
	Trailer Mounted Flashing Arrow Board	M	Portable Changeable Message Sign (PCMS)
	Sign		Traffic Flow
	Flag		Flagger

Posted Speed *	Formula	Minimum Desirable Taper Lengths ** 10' Offset	11' Offset	12' Offset	Suggested Maximum Spacing of Channelizing Devices On a Taper	On a Tangent	Minimum Sign Spacing "X" Distance	Suggested Longitudinal Buffer Space "B"	Stopping Sight Distance
30	$L = \frac{WS^2}{60}$	150'	165'	180'	30'	60'	120'	90'	200'
35		205'	225'	245'	35'	70'	160'	120'	250'
40		265'	295'	320'	40'	80'	240'	155'	305'
45	L=WS	450'	495'	540'	45'	90'	320'	195'	360'
50		500'	550'	600'	50'	100'	400'	240'	425'
55		550'	605'	660'	55'	110'	500'	295'	495'
60		600'	660'	720'	60'	120'	600'	350'	570'
65		650'	715'	780'	65'	130'	700'	410'	645'
70		700'	770'	840'	70'	140'	800'	475'	730'
75		750'	825'	900'	75'	150'	900'	540'	820'

* Conventional Roads Only
** Taper lengths have been rounded off.
L=Length of Taper (FT) W=Width of Offset (FT) S=Posted Speed (MPH)

TYPICAL USAGE				
MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
	✓	✓	✓	

GENERAL NOTES

1. Flags attached to signs where shown, are REQUIRED.
2. All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated elsewhere in the plans, or for routine maintenance work, when approved by the Engineer.
3. The CW3-4 "BE PREPARED TO STOP" sign may be installed after the CW20-4 "ONE LANE ROAD XXX FT" sign, but proper sign spacing shall be maintained.
4. Flaggers should use two-way radios or other methods of communication to control traffic.
5. Length of work space should be based on the ability of flaggers to communicate.
6. A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
7. Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown in order to protect a wider work space.

TCP (2-2a)

8. The R1-2 "YIELD" sign traffic control may be used on projects with approaches that have adequate sight distance. For projects in urban areas, work space should be no longer than one half city block. In rural areas, roadways with less than 2000 ADT, work space should be no longer than 400 feet.
9. The R1-2aP "YIELD TO ONCOMING TRAFFIC" sign shall be placed on a support at a 7 foot minimum mounting height.

TCP (2-2b)

10. Channelizing devices on the center line may be omitted when a pilot car is leading traffic and approved by the Engineer.
11. If the work space is located near a horizontal or vertical curve, the buffer distances should be increased in order to maintain stopping sight distance to the flagger and a queue of stopped vehicles. (See table above).
12. Flaggers should use 24" STOP/SLOW paddles to control traffic. Flags should be limited to emergency situations.

Texas Department of Transportation — Traffic Operations Division Standard

TRAFFIC CONTROL PLAN
ONE-LANE TWO-WAY
TRAFFIC CONTROL

TCP (2-2)-18

FILE: tcp2-2-18.dgn	DN:	CK:	DW:	CK:
© TxDOT December 1985	CONT	SECT	JOB	HIGHWAY
REVISIONS 8-95 3-03 1-97 2-12 4-98 2-18	DIST		COUNTY	SHEET NO.

162

DATE:
FILE:

verizonbusiness

PROJECT: HUB 044 - LEG B
ADDISON, TX
1707AIFX.161, 1707AIFX.186, & 1707AIFX.198

CLARIFICATION NO.	QUANTITY

MCImetro
ACCESS TRANSMISSION SERVICES CORPORATION

OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
VERIZON BUSINESS - LEG B
ADDISON, TX

DATE: 7/30/2018
ENGINEER: COBBFENDLEY
CHECKED BY: PM
DRAWN BY: PN

REVISIONS

No.	DATE	DESCRIPTION	BY

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SCALE
HORIZONTAL: N/A
VERTICAL: N/A

FILE: LEG B_PERMIT SET_ADDISON.DWG

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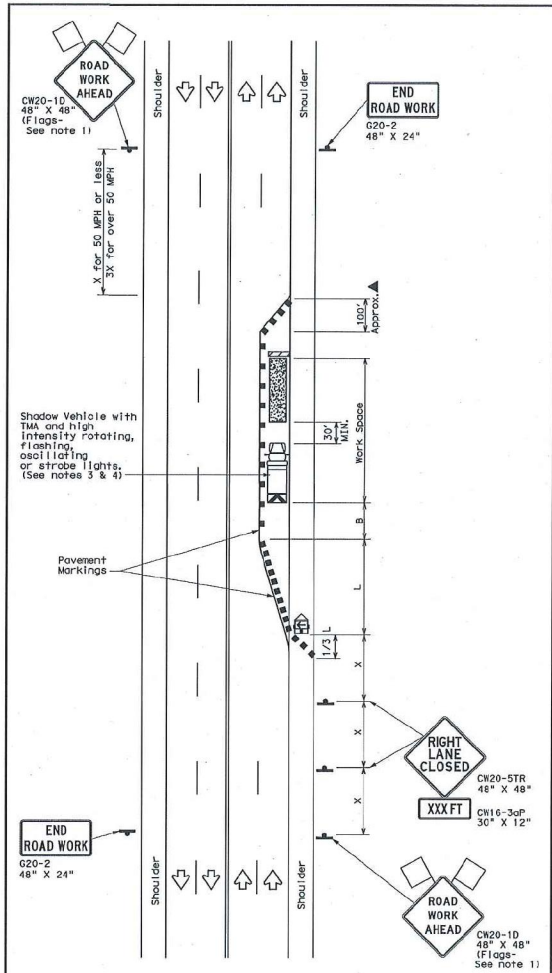
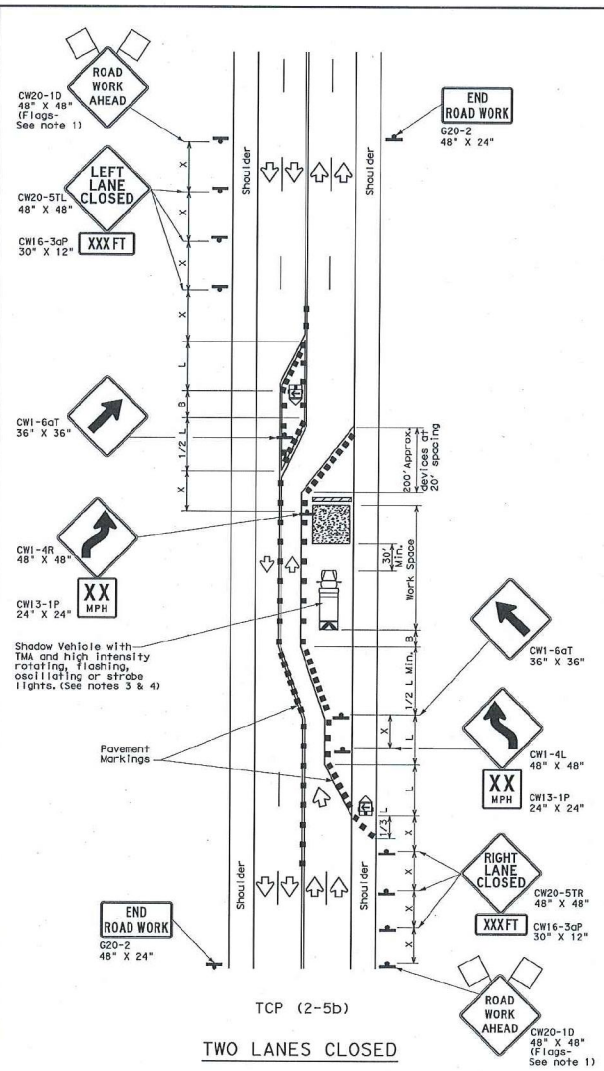


TCP (2-5a)

ONE LANE CLOSED



TCP (2-5b)

TWO LANES CLOSED

LEGEND

	Type 3 Barricade		Channelizing Devices
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)
	Trailer Mounted Flashing Arrow Board	M	Portable Changeable Message Sign (PCMS)
	Sign		Traffic Flow
	Flag		Flagger

Posted Speed *	Formula	Minimum Desirable Taper Lengths ** 10' Offset	11' Offset	12' Offset	Suggested Maximum Spacing of Channelizing Devices On a Taper	On a Tangent	Minimum Sign Spacing "X" Distance	Suggested Longitudinal Buffer Space "B"
30	$L=\frac{WS^2}{60}$	150'	165'	180'	30'	60'	120'	90'
35		205'	225'	245'	35'	70'	160'	120'
40		265'	295'	320'	40'	80'	240'	155'
45	L=WS	450'	495'	540'	45'	90'	320'	195'
50		500'	550'	600'	50'	100'	400'	240'
55		550'	605'	660'	55'	110'	500'	295'
60		600'	660'	720'	60'	120'	600'	350'
65		650'	715'	780'	65'	130'	700'	410'
70		700'	770'	840'	70'	140'	800'	475'
75		750'	825'	900'	75'	150'	900'	540'

* Conventional Roads Only
** Taper lengths have been rounded off.
L=Length of Taper(FT) W=Width of Offset(FT) S=Posted Speed(MPH)

TYPICAL USAGE

MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
			✓	✓

GENERAL NOTES

1. Flags attached to signs where shown, are REQUIRED.
2. All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated elsewhere in the plans, or for routine maintenance work, when approved by the Engineer.
3. A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
4. Additional Shadow Vehicles with TMAs may be positioned in each closed lane, on the shoulder or off the paved surface, next to those shown in order to protect a wider work space.
5. The downstream taper is optional. When used, it should be 100 feet approximately per lane, with channelizing devices spaced at 20 feet.

TCP (2-5a)

6. If this TCP is used for a left lane closure, CW20-5TL "LEFT LANE CLOSED" signs shall be used and channelizing devices shall be placed on the centerline to protect the work space from opposing traffic, with the arrow board placed in the closed lane near the end of the merging taper.

TCP (2-5b)

7. Conflicting pavement markings shall be removed for long-term projects.

For construction or maintenance contract work, specific project requirements for shadow vehicles can be found in the project GENERAL NOTES for Item 502, Barricades, Signs and Traffic Handling.

Texas Department of Transportation
Traffic Operations Division

TRAFFIC CONTROL PLAN
LONG TERM LANE CLOSURES
MULTILANE CONVENTIONAL RDS.

TCP(2-5)-12

©TxDOT December 1985

REVISIONS 8-95 2-12 1-97 4-93 3-03

DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
CONT	SECT	JOB	HIGHWAY
DIST		COUNTY	SHEET NO.

165

verizonbusiness

PROJECT: HUB 044 - LEG B
ADDISON, TX
1707AIFX.161, 1707AIFX.186, & 1707AIFX.188

CLARIFICATION NO.	QUANTITY

MCImetro
ACCESS TRANSMISSION SERVICES CORPORATION

OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
VERIZON BUSINESS - LEG B
ADDISON, TX

DATE: 7/30/2018
ENGINEER: COBB/FENDLEY
CHECKED BY: PM
DRAWN BY: PN

REVISIONS

No.	DATE	DESCRIPTION	BY

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SCALE
HORIZONTAL: N/A
VERTICAL: N/A

SHEET 18 OF 65

FILE: LEG B_PERMIT SET_ADDISON.DWG

DATE:
FILE:

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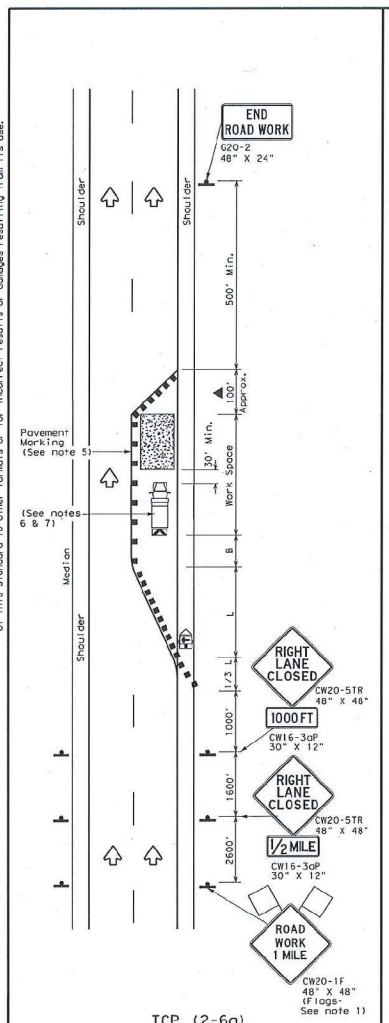
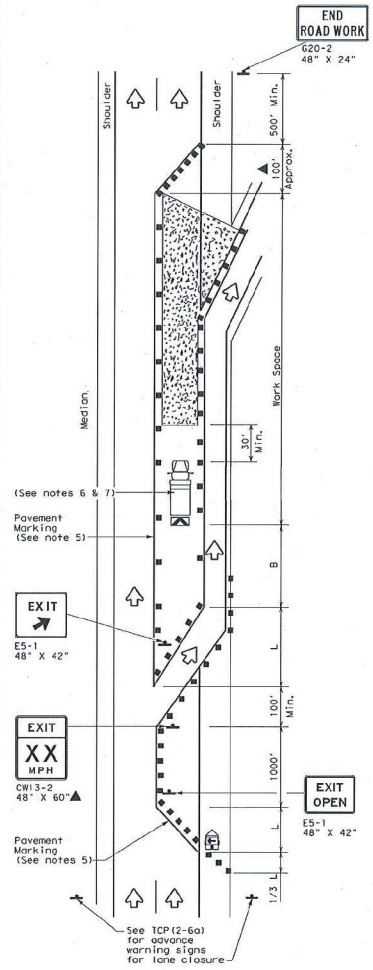


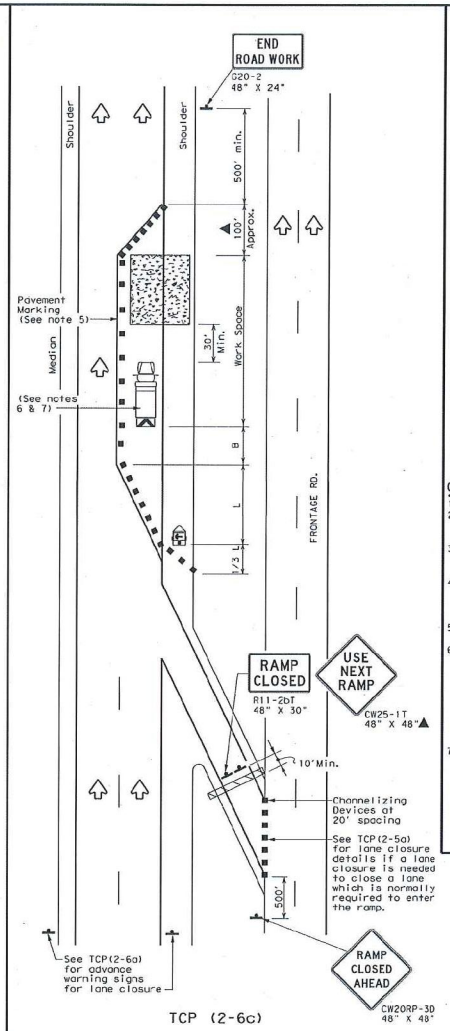
TCP (2-6a)

ONE LANE CLOSURE



TCP (2-6b)

LANE CLOSURE NEAR EXIT RAMPS



TCP (2-6c)

LANE CLOSURE NEAR ENTRANCE RAMPS

LEGEND

	Type 3 Barricade		Channelizing Devices
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)
	Trailer Mounted Flashing Arrow Board	M	Portable Changeable Message Sign (PCMS)
	Sign		Traffic Flow
	Flag		Flagger

Posted Speed *	Formula	Minimum Desirable Taper Lengths ** 10' Offset	11' Offset	12' Offset	Suggested Maximum Spacing of Channelizing Devices On a Taper	On a Tangent	Minimum Sign Spacing "X" Distance	Suggested Longitudinal Buffer Space "B"
30	$L = \frac{WS^2}{60}$	150'	165'	180'	30'	60'	120'	90'
35		205'	225'	245'	35'	70'	160'	120'
40		265'	295'	320'	40'	80'	240'	155'
45	L=WS	450'	495'	540'	45'	90'	320'	195'
50		500'	550'	600'	50'	100'	400'	240'
55		550'	605'	660'	55'	110'	500'	295'
60		600'	660'	720'	60'	120'	600'	350'
65		650'	715'	780'	65'	130'	700'	410'
70		700'	770'	840'	70'	140'	800'	475'
75		750'	825'	900'	75'	150'	900'	540'

* Conventional Roads Only

** Taper lengths have been rounded off.
L=Length of Taper(FT) W=Width of Offset(FT) S=Posted Speed(MPH)

TYPICAL USAGE

MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
			✓	✓

GENERAL NOTES

1. Flags attached to signs where shown, are REQUIRED.
2. All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated elsewhere in the plans, or for routine maintenance work, when approved by the Engineer.
3. Channelizing devices used to close lanes may be supplemented with the Chevron Alignment Sign placed on every other channelizing device. Chevrons may be attached to plastic drums as per BC Standards.
4. Channelizing devices used along the work space or along tangent sections may be supplemented with vertical panels (VP) placed on everyother channelizing device. If night time conditions make it difficult to see at least two VPs, the VPs may be placed on each channelizing device.
5. The placement of pavement markings may be omitted on Intermediate-term stationary work zones with the approval of the Engineer.
6. Shadow Vehicle with TMA and high intensity rotating, flashing, oscillating or strobe lights. Shadow Vehicle with TMA and high intensity rotating, flashing, oscillating or strobe lights. A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
7. Additional Shadow Vehicles with TMAs may be positioned in each closed lane, on the shoulder or off the paved surface, next to those shown in order to protect a wider work space.

Texas Department of Transportation — Traffic Operations Division Standard

TRAFFIC CONTROL PLAN LANE CLOSURES ON DIVIDED HIGHWAYS

TCP(2-6)-18

FILE:	tcp2-6-18.dgn	DN:	CK:	DW:	CK:
©TxDOT	December 1985	CONT	SECT	JOB	HIGHWAY
REVISIONS					
2-94 1-98		DIST		COUNTY	SHEET NO.
8-95 2-12					
1-97 2-18					
166					

DATE:
FILE:

verizonbusiness

PROJECT: HUB 044 - LEG B

ADDISON, TX

1707AIFX.161, 1707AIFX.186, & 1707AIFX.188

CLARIFICATION NO.	QUANTITY

MCImetro
ACCESS TRANSMISSION SERVICES CORPORATION

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC CABLE ROUTE
VERIZON BUSINESS - LEG B
ADDISON, TX

DATE: 7/30/2018
ENGINEER: COBBFENDLEY
CHECKED BY: PM
DRAWN BY: PN

REVISIONS

No.	DATE	DESCRIPTION	BY

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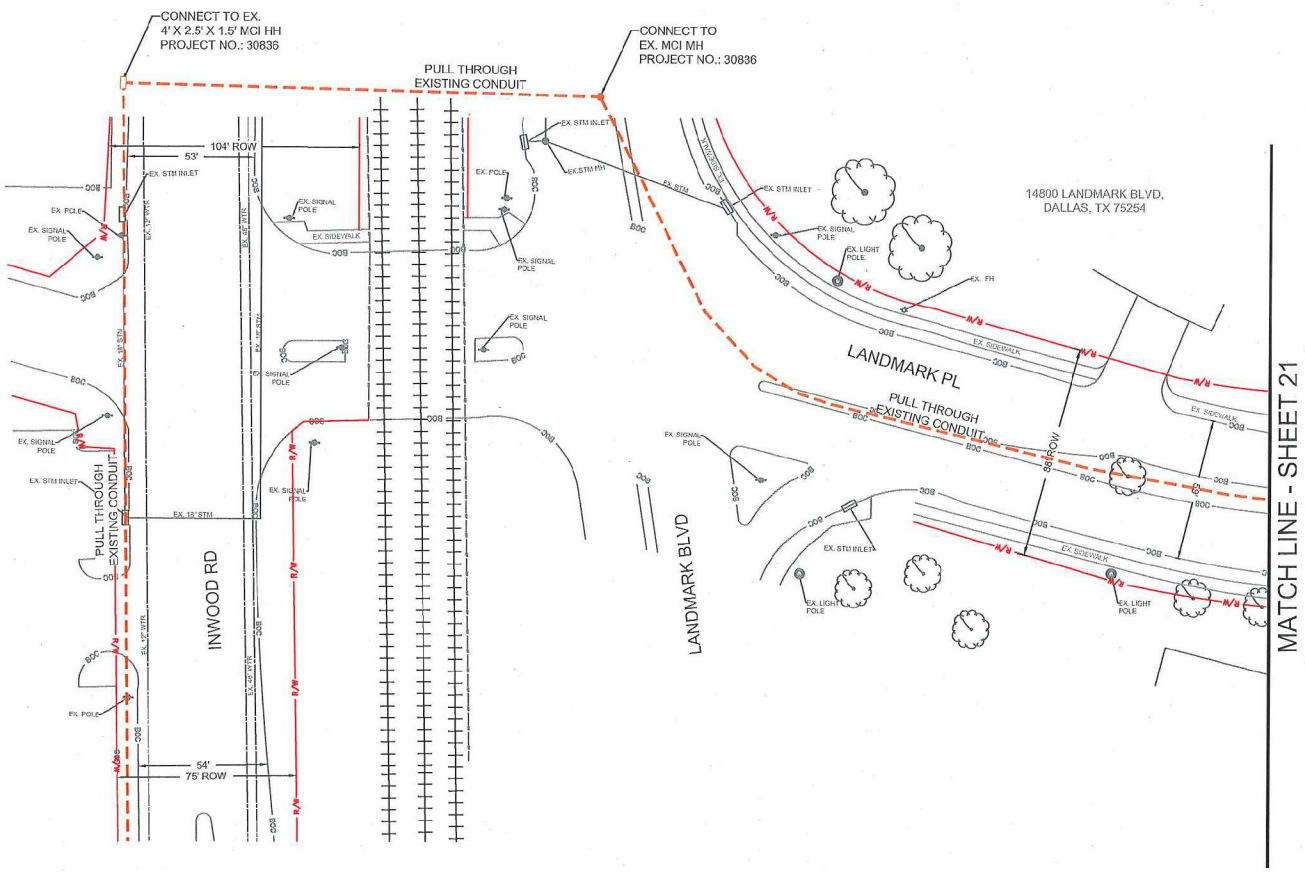
SCALE

HORIZONTAL: N/A
VERTICAL: N/A

SHEET 19 OF 65

FILE: LEG B_PERMIT SET_ADDISON.DWG



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

!!! WARNING !!!
EXISTING UTILITIES IN THE AREA. CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL EXISTING UTILITIES WITH THE PROVIDER PRIOR TO START OF CONSTRUCTION AND SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY CONFLICTS DISCOVERED. CONTRACTOR IS RESPONSIBLE FOR COORDINATING UTILITY RELOCATION WHERE NECESSARY AND PROTECTING EXISTING UTILITIES (SHOWN OR NOT SHOWN). IF ANY EXISTING UTILITIES ARE DAMAGED, THE CONTRACTOR SHALL REPLACE THEM AT THEIR OWN EXPENSE.

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PROJECT: HUB 044 - LEG B

ADDISON, TX

1707AIFX.161, 1707AIFX.186, & 1707AIFX.188

CLARIFICATION NO.	QUANTITY

MCImetro
ACCESS TRANSMISSION SERVICES CORPORATION

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC CABLE ROUTE
VERIZON BUSINESS - LEG B
ADDISON, TX

DATE: 7/30/2018

ENGINEER: COBBFENDLEY

CHECKED BY: PM

DRAWN BY: PN

REVISIONS

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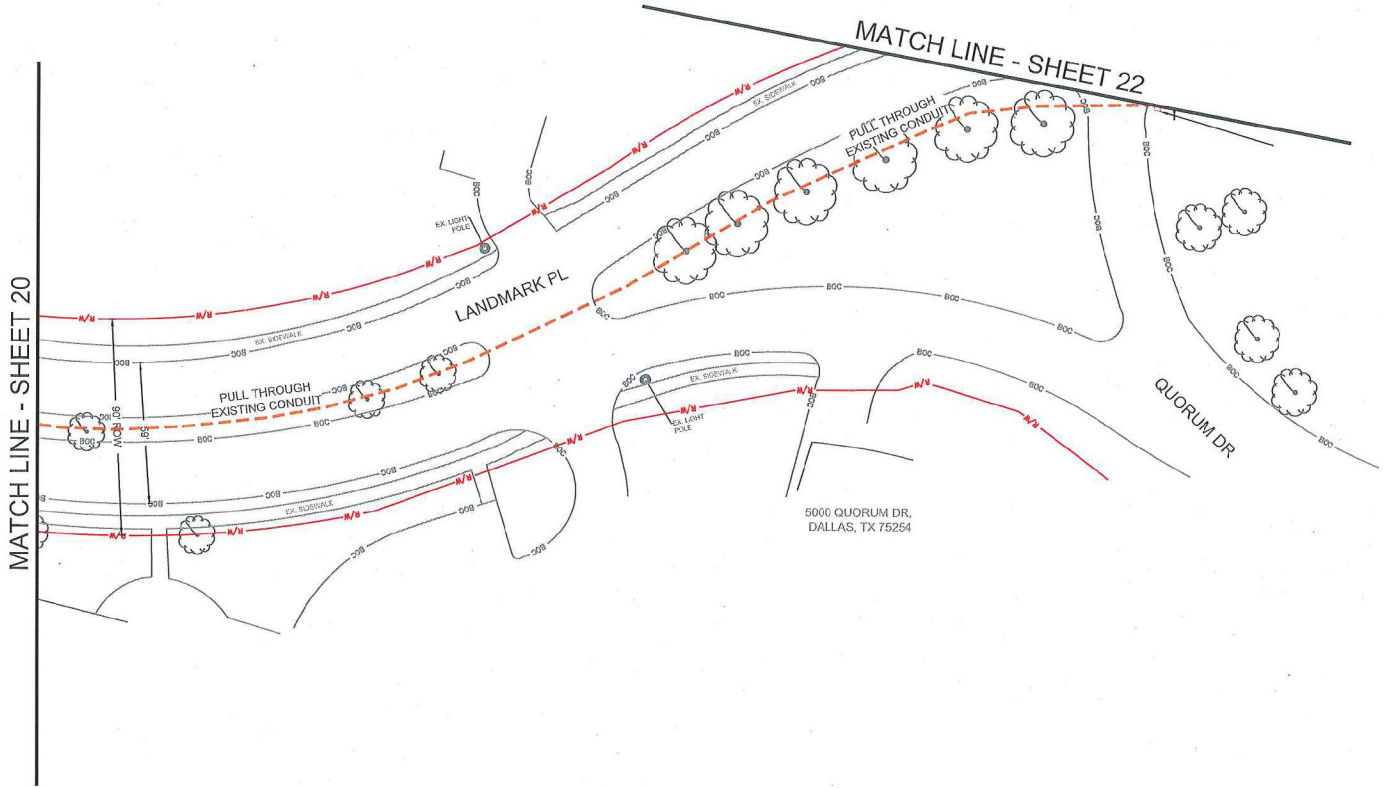
SCALE

HORIZONTAL: 1" = 50'

VERTICAL: N/A

SHEET 20 OF 65

FILE: LEG 3_PERMIT SET_ADDISON.DWG



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PROJECT: HUB 044 - LEG B

ADDISON, TX

1707AIFX.161, 1707AIFX.186, & 1707AIFX.188

CLARIFICATION NO.	QUANTITY

MCImetro
ACCESS TRANSMISSION SERVICES CORPORATION

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC CABLE ROUTE
VERIZON BUSINESS - LEG B
ADDISON, TX

DATE: 7/30/2018
ENGINEER: COBBFENDLEY
CHECKED BY: PM
DRAWN BY: PN

REVISIONS

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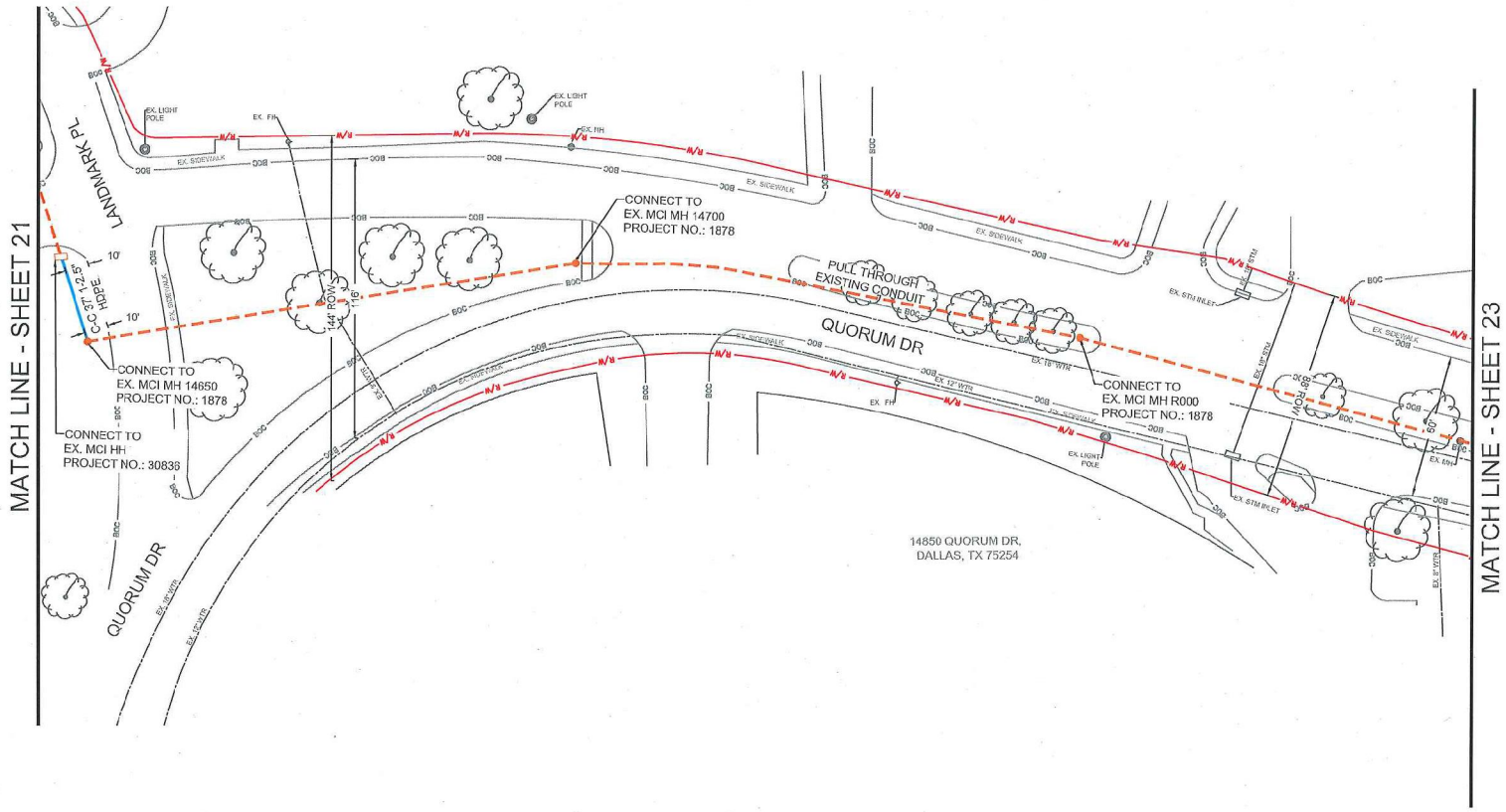
SCALE

HORIZONTAL: 1" = 50'
VERTICAL: N/A
SHEET 21 OF 65
FILE: LEG B_PERMIT SET_ADDISON.DWG



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PROJECT: HUB 044 - LEG B
ADDISON, TX
1707AIFX.161, 1707AIFX.186, & 1707AIFX.188

CLARIFICATION NO.	QUANTITY

MCImetro
ACCESS TRANSMISSION SERVICES CORPORATION

OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
VERIZON BUSINESS - LEG B
ADDISON, TX

DATE: 7/30/2018
ENGINEER: COBBFENDLEY
CHECKED BY: PM
DRAWN BY: PN

REVISIONS

No.	DATE	DESCRIPTION	BY

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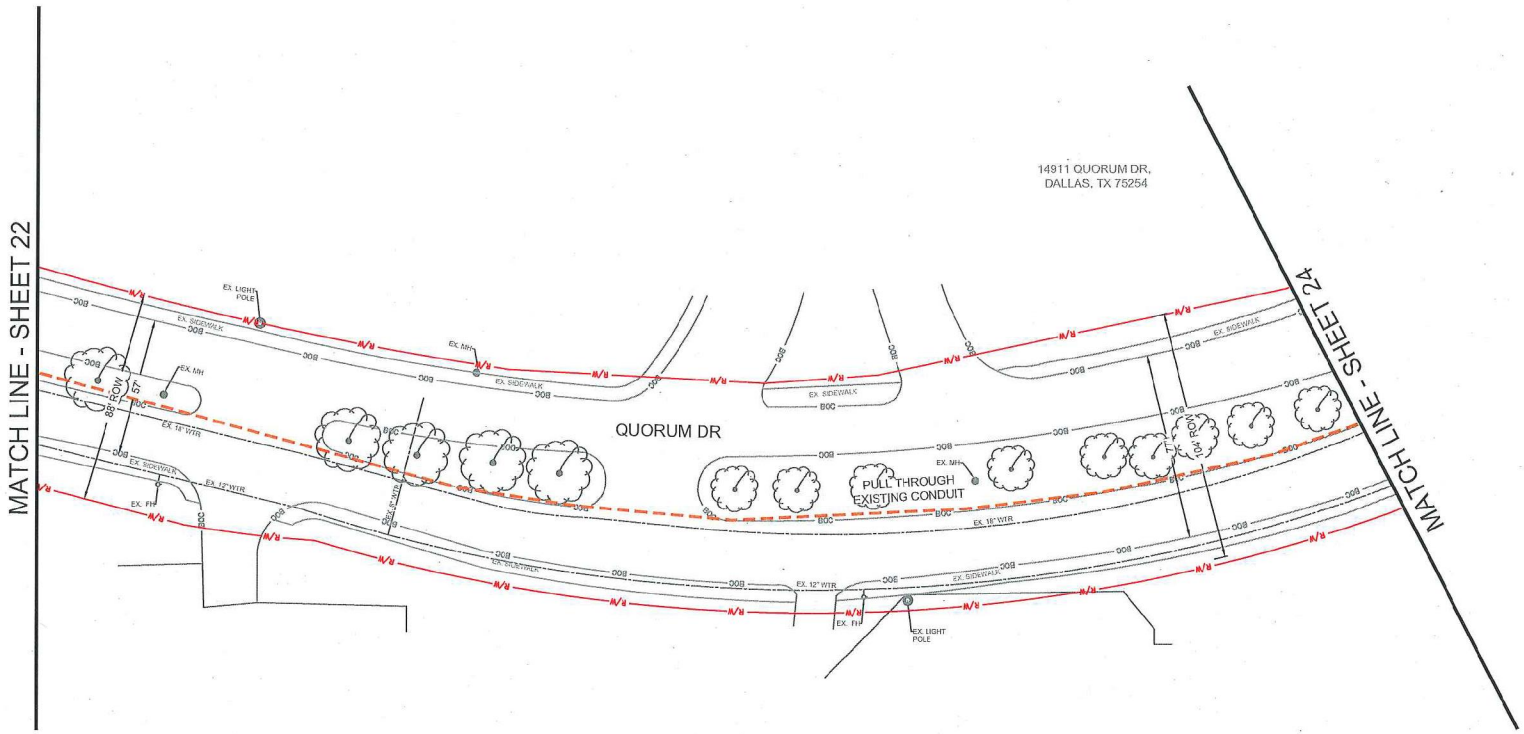
SCALE
HORIZONTAL: 1" = 50'
VERTICAL: N/A
SHEET 22 OF 65
FILE: LEG B_PERMIT SET_ADDISON.DWG



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PROJECT: HUB 044 - LEG B

ADDISON, TX

1707AIFX.161, 1707AIFX.186, & 1707AIFX.188

CLARIFICATION NO.	QUANTITY

MCImetro
ACCESS TRANSMISSION SERVICES CORPORATION

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC CABLE ROUTE
VERIZON BUSINESS - LEG B
ADDISON, TX

DATE: 7/30/2018
ENGINEER: COBBFENDLEY
CHECKED BY: PM
DRAWN BY: PN

REVISIONS

No.	DATE	DESCRIPTION	BY

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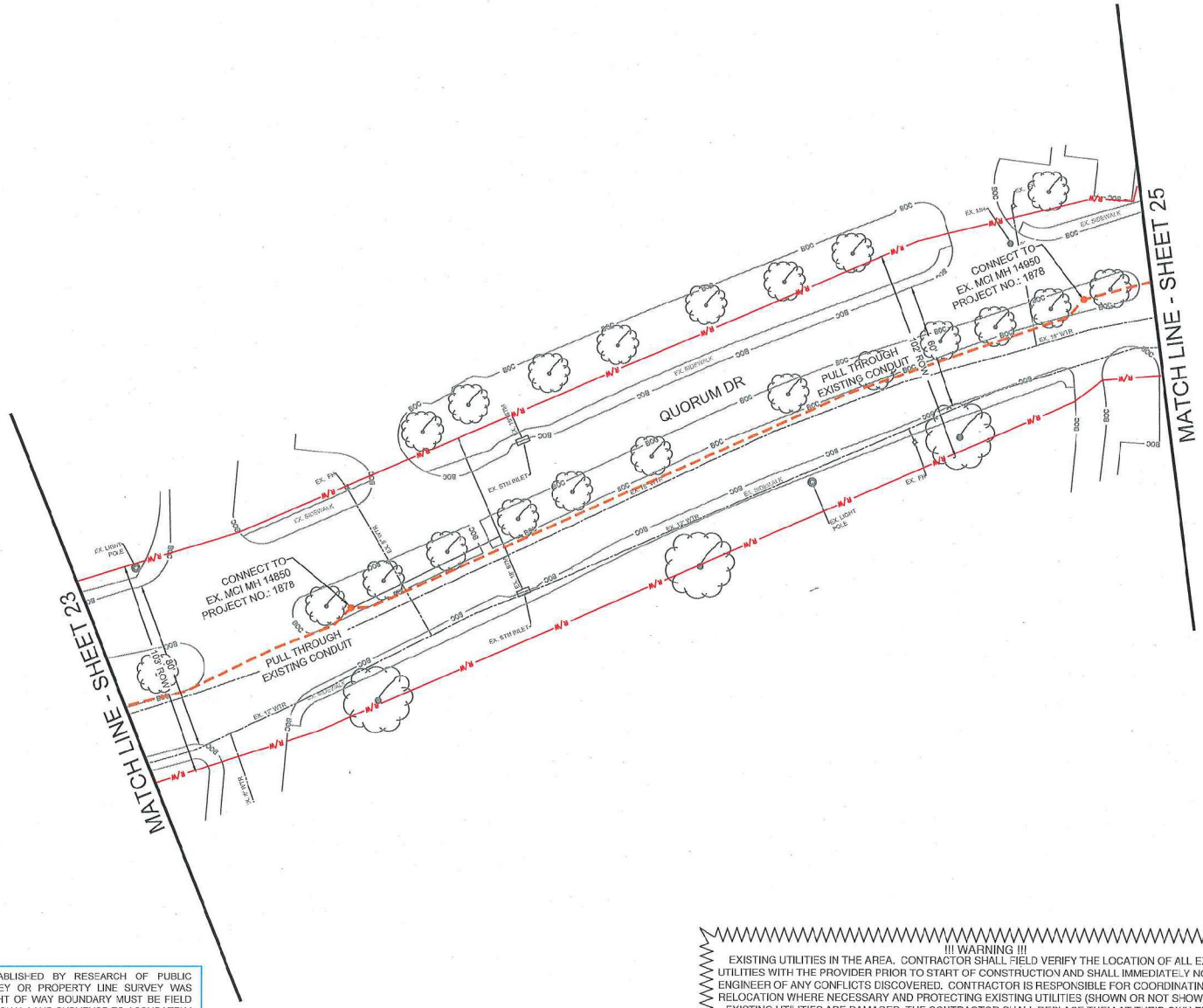
SCALE

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

SHEET 23 OF 65

FILE: LEG B_PERMIT SET_ADDISON.DWG



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

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verizonbusiness

PROJECT: HUB 044 - LEG B
ADDISON, TX
1707AIFX.161, 1707AIFX.186, & 1707AIFX.188

CLARIFICATION NO.	QUANTITY

MCImetro
ACCESS TRANSMISSION SERVICES CORPORATION

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC CABLE ROUTE
VERIZON BUSINESS - LEG B
ADDISON, TX

DATE: 7/30/2018
ENGINEER: COBBFENDLEY
CHECKED BY: PM
DRAWN BY: PN

REVISIONS

No.	DATE	DESCRIPTION	BY

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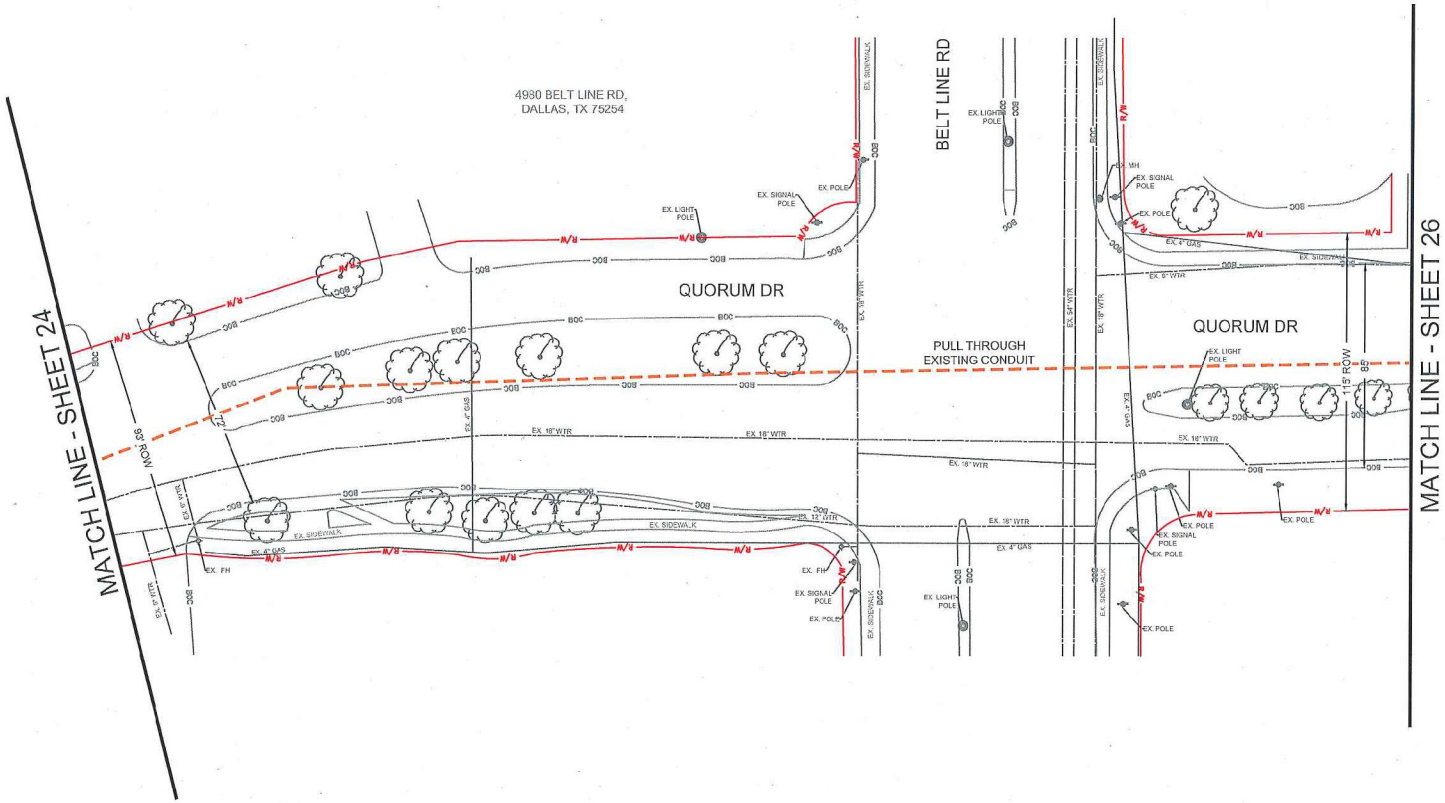
SCALE
HORIZONTAL: 1" = 50'
VERTICAL: N/A

SHEET 24 OF 65

FILE: LEG B_PERMIT SET_ADDISON.DWG



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verizonbusiness

PROJECT: HUB 044 - LEG B
ADDISON, TX
1707AIFX.161, 1707AIFX.186,
& 1707AIFX.188

CLARIFICATION NO.	QUANTITY

MCImetro
ACCESS TRANSMISSION SERVICES CORPORATION

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC CABLE ROUTE
VERIZON BUSINESS - LEG B
ADDISON, TX

DATE: 7/30/2018
ENGINEER: COBBFENDLEY
CHECKED BY: PM
DRAWN BY: PN

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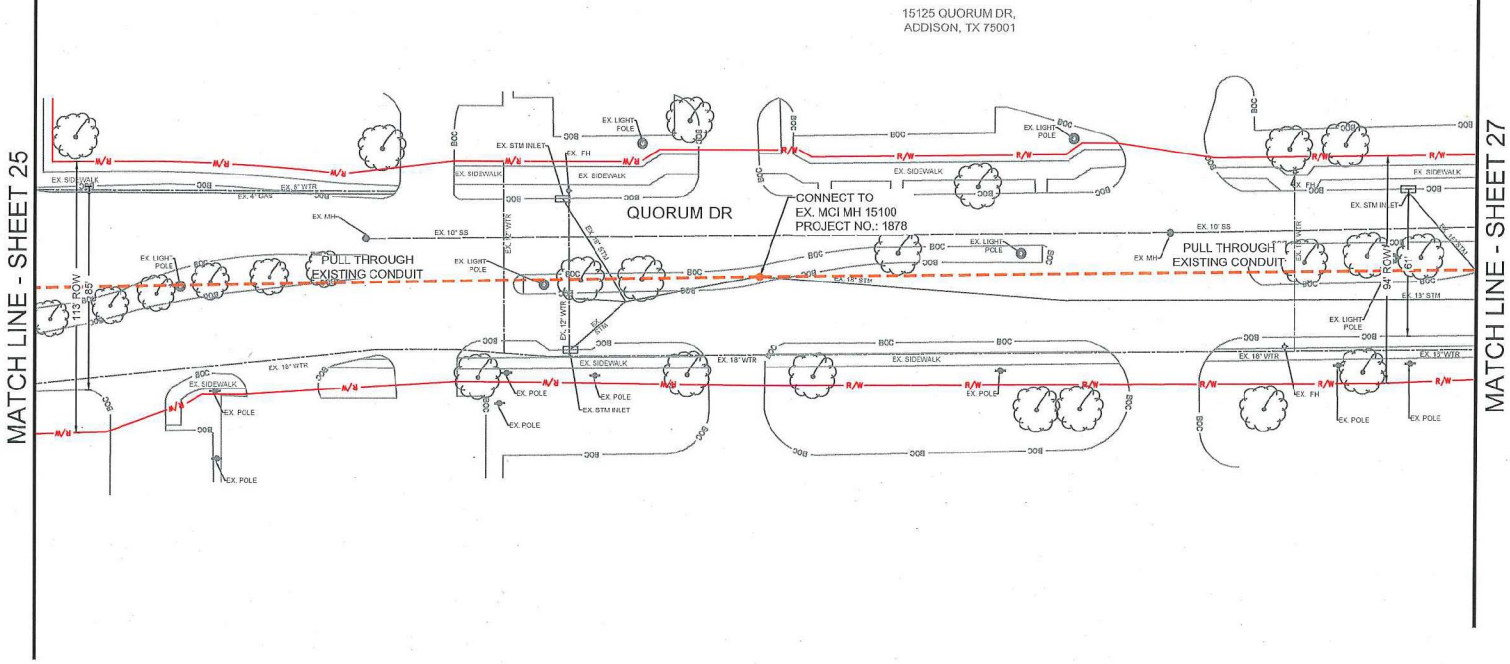
SCALE
HORIZONTAL: 1" = 50'
VERTICAL: N/A
SHEET 25 OF 65
FILE: LEG B_PERMIT SET_ADDISON.DWG



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verizonbusiness

PROJECT: HUB 044 - LEG B
ADDISON, TX
1707AIFX.161, 1707AIFX.186,
& 1707AIFX.188

CLARIFICATION NO.	QUANTITY

MCImetro
ACCESS TRANSMISSION SERVICES CORPORATION

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC CABLE ROUTE
VERIZON BUSINESS - LEG B
ADDISON, TX

DATE: 7/30/2018
ENGINEER: COBBFENDLEY
CHECKED BY: PM
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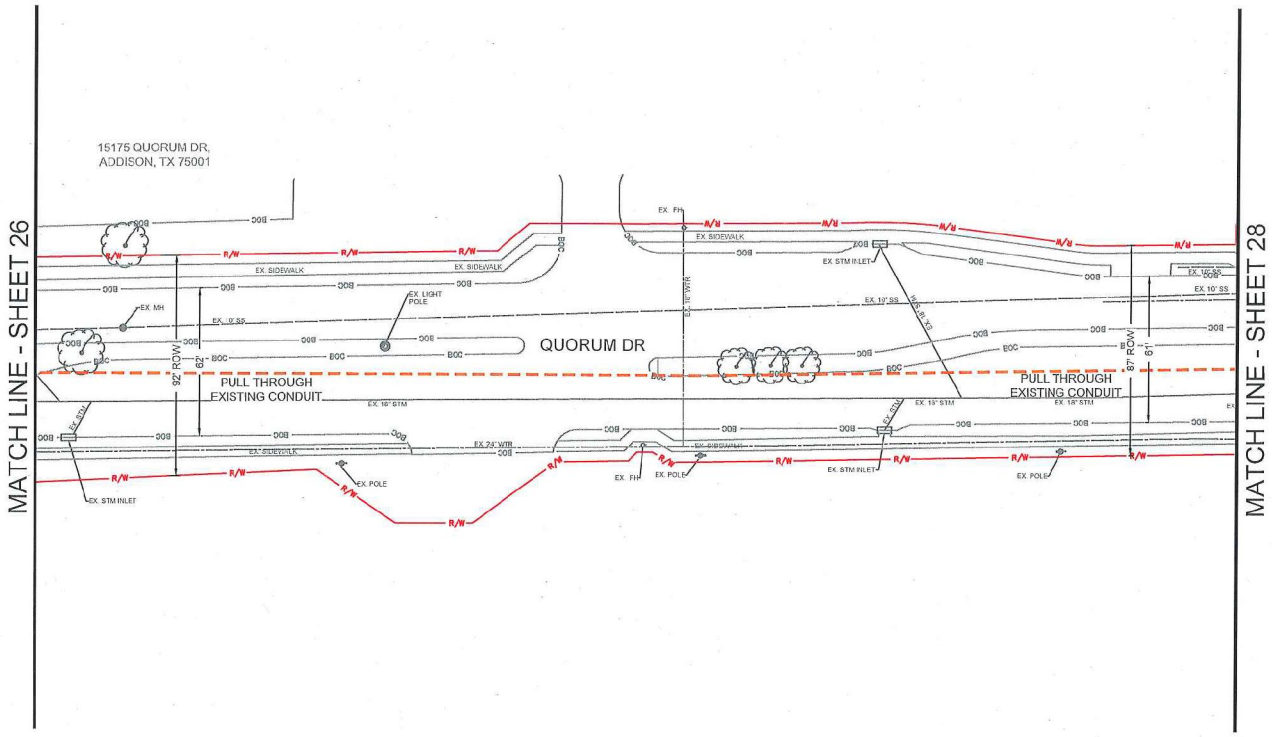
SCALE
HORIZONTAL: 1" = 50'
VERTICAL: N/A
SHEET 26 OF 65
FILE: LEG B_PERMIT SET_ADDISON.DWG



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PROJECT: HUB 044 - LEG B
ADDISON, TX
1707AIFX.161, 1707AIFX.186,
& 1707AIFX.188

CLARIFICATION NO.	QUANTITY

MCImetro
ACCESS TRANSMISSION SERVICES
CORPORATION

OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
VERIZON BUSINESS - LEG B
ADDISON, TX

DATE: 7/30/2018
ENGINEER: COBBFENDLEY
CHECKED BY: PM
DRAWN BY: PN

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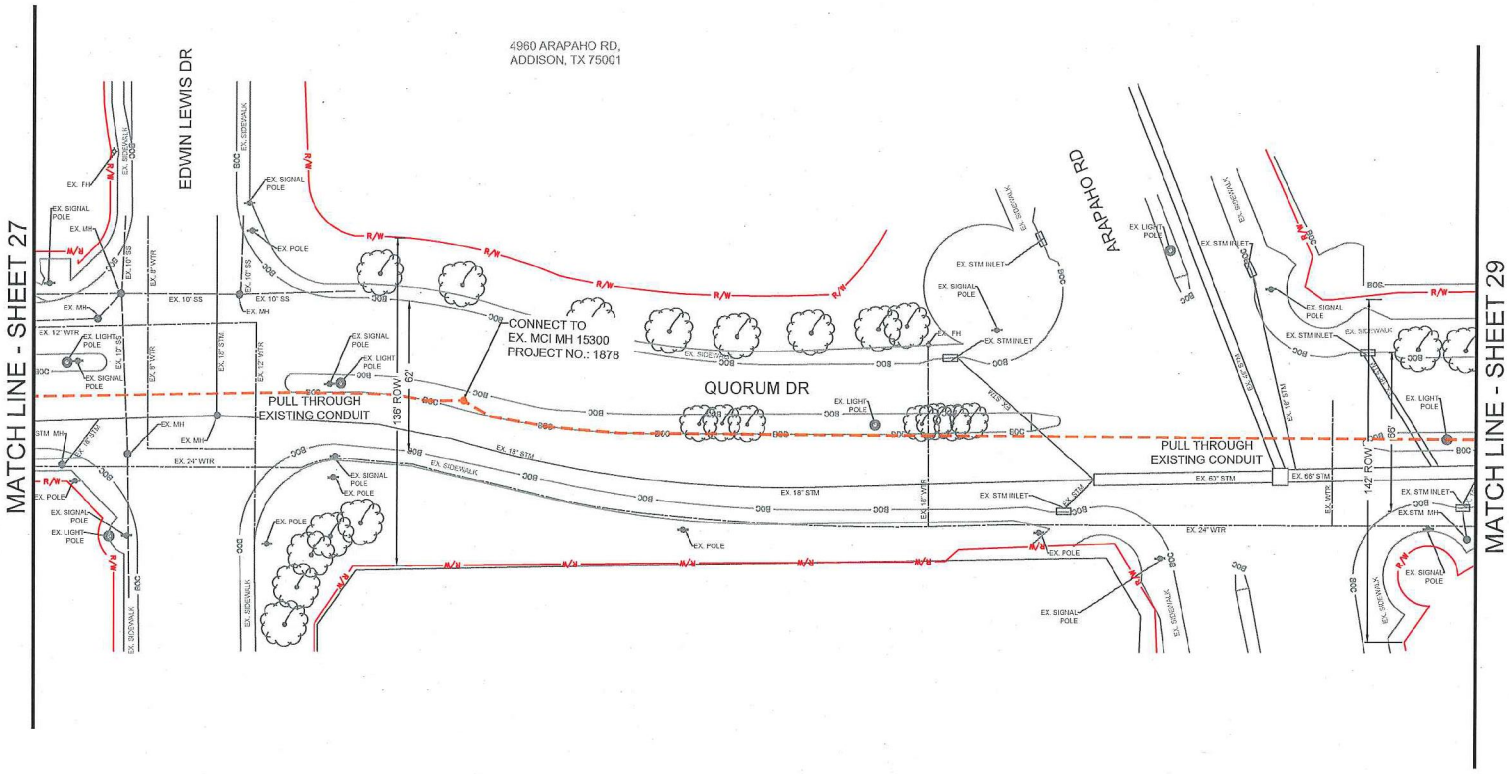
SCALE
HORIZONTAL: 1" = 50'
VERTICAL: N/A
SHEET 27 OF 65
FILE: LEG 3_PERMIT SET_ADDISON.DWG



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PROJECT: HUB 044 - LEG B
ADDISON, TX
1707AIFX.161, 1707AIFX.186,
& 1707AIFX.188

CLARIFICATION NO.	QUANTITY

MCImetro
ACCESS TRANSMISSION SERVICES CORPORATION

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC CABLE ROUTE
VERIZON BUSINESS - LEG B
ADDISON, TX

DATE: 7/30/2018
ENGINEER: COBBFENDLEY
CHECKED BY: PM
DRAWN BY: PN

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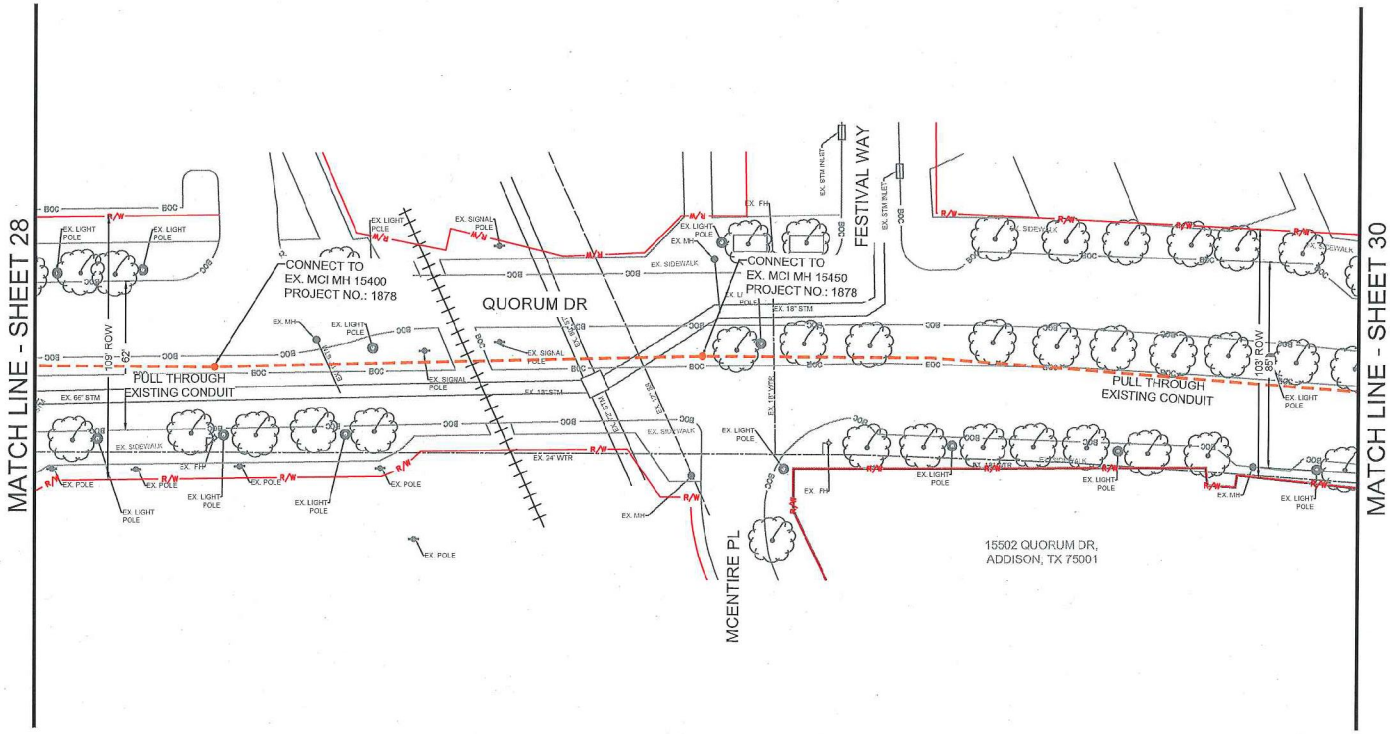
SCALE
HORIZONTAL: 1" = 50'
VERTICAL: N/A
SHEET 28 OF 65
FILE: LEG B_PERMIT SET_ADDISON.DWG



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verizonbusiness

PROJECT: HUB 044 - LEG B
ADDISON, TX
1707AIFX.161, 1707AIFX.186, & 1707AIFX.188

CLARIFICATION NO.	QUANTITY

MCImetro
ACCESS TRANSMISSION SERVICES CORPORATION

OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
VERIZON BUSINESS - LEG B
ADDISON, TX

DATE: 7/30/2018
ENGINEER: COBBFENDLEY
CHECKED BY: PM
DRAWN BY: PN

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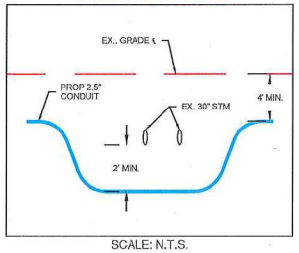
SCALE
HORIZONTAL: 1" = 50'
VERTICAL: N/A
SHEET 29 OF 85
FILE: LEG B_PERMIT SET_ADDISON.DWG

UTILITY CROSSING

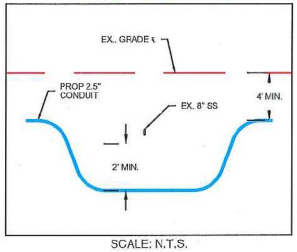
Ⓐ



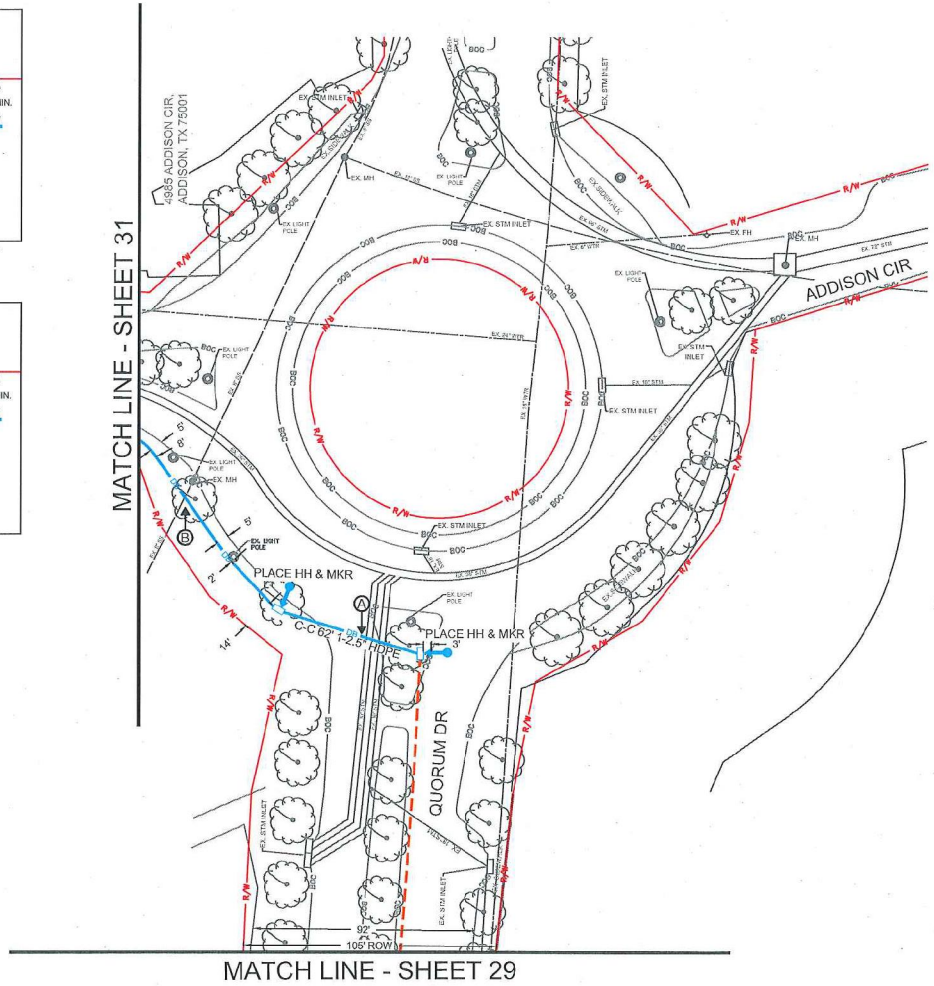
SCALE: N.T.S.

UTILITY CROSSING

Ⓑ



SCALE: N.T.S.



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PROJECT: HUB 044 - LEG B

ADDISON, TX

1707AIFX.161, 1707AIFX.186, & 1707AIFX.188

CLARIFICATION NO.	QUANTITY
1-2.5" HDPE	153'

MCImetro
ACCESS TRANSMISSION SERVICES CORPORATION

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC CABLE ROUTE
VERIZON BUSINESS - LEG B
ADDISON, TX

DATE: 7/30/2018
ENGINEER: COBBFENDLEY
CHECKED BY: PM
DRAWN BY: PN

REVISIONS

No.	DATE	DESCRIPTION	BY
1	7/26/18	ADDISON UTILITIES	HC

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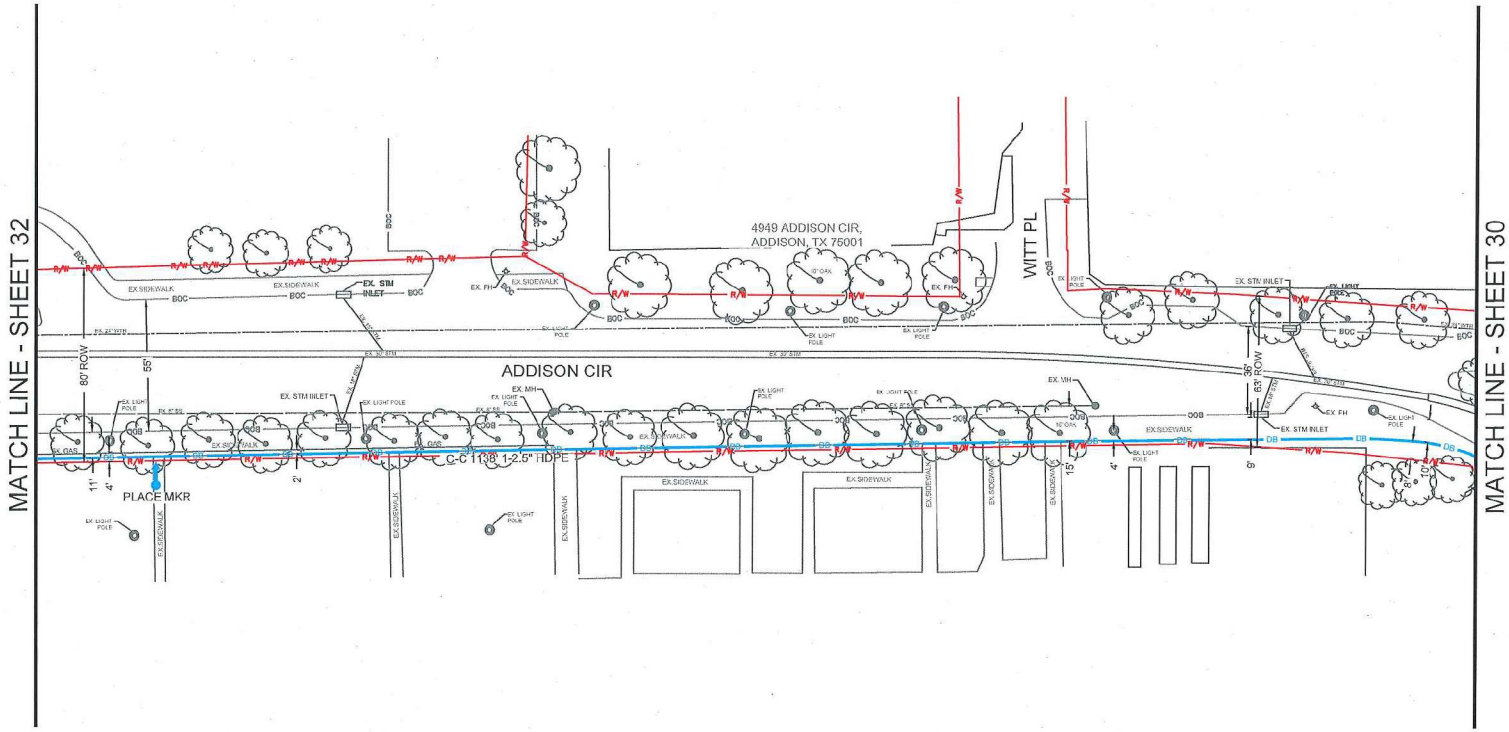
SCALE

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

SHEET 30 OF 65

FILE: LEG B_PERMIT SET_ADDISON.DWG



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PROJECT: HUB 044 - LEG B

ADDISON, TX

1707AIFX.161, 1707AIFX.186, & 1707AIFX.188

CLARIFICATION NO.	QUANTITY
1-2.5" HDPE	603'

MCImetro
ACCESS TRANSMISSION SERVICES CORPORATION

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC CABLE ROUTE
VERIZON BUSINESS - LEG B
ADDISON, TX

DATE: 7/30/2018
ENGINEER: COBBFENDLEY
CHECKED BY: PM
DRAWN BY: PN

REVISIONS

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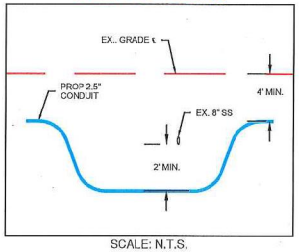
SCALE

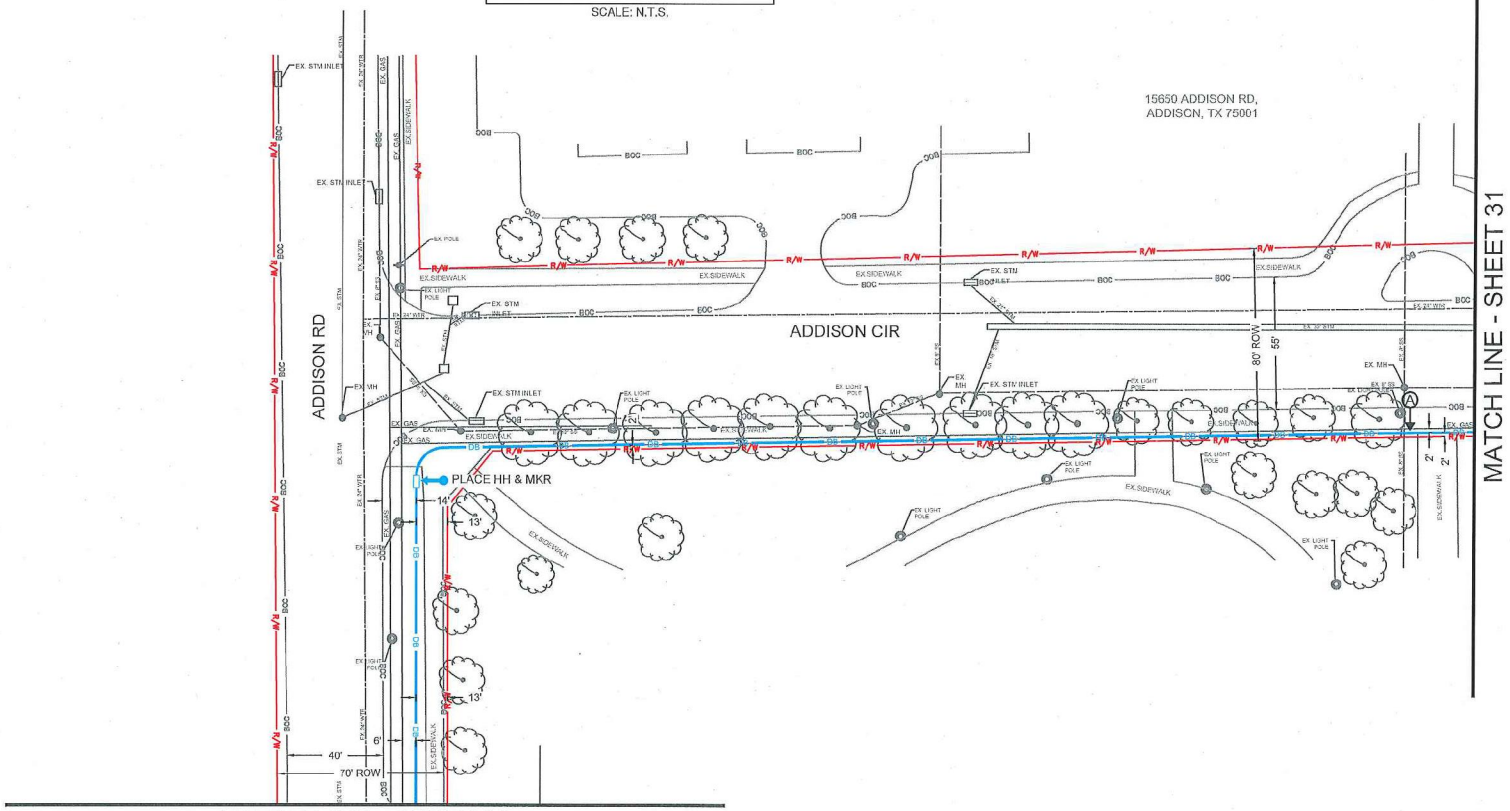
HORIZONTAL: 1" = 50'
VERTICAL: N/A
SHEET 31 OF 65
FILE: LEG B_PERMIT SET_ADDISON.DWG

UTILITY CROSSING

Ⓐ



SCALE: N.T.S.



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PROJECT: HUB 044 - LEG B
ADDISON, TX
1707AIFX.161, 1707AIFX.186, & 1707AIFX.188

CLARIFICATION NO.	QUANTITY
1-2.5" HDPE	583'

MCImetro
ACCESS TRANSMISSION SERVICES CORPORATION

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC CABLE ROUTE
VERIZON BUSINESS - LEG B
ADDISON, TX

DATE: 7/30/2018
ENGINEER: COBBFENDLEY
CHECKED BY: PM
DRAWN BY: PN

REVISIONS

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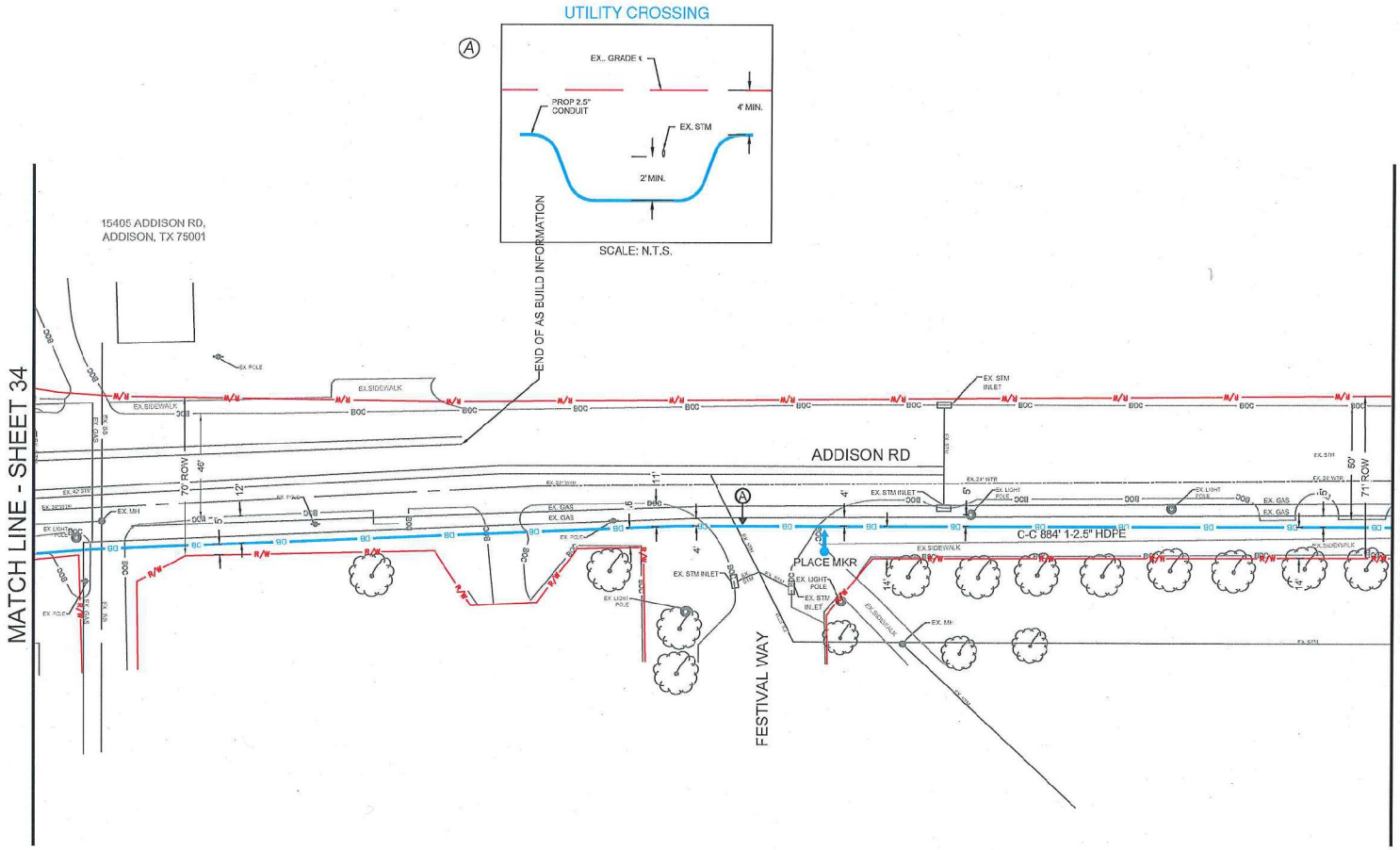
SCALE
HORIZONTAL: 1" = 50'
VERTICAL: N/A
SHEET 32 OF 65
FILE: LEG B_PERMIT SET_ADDISON.DWG



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PROJECT: HUB 044 - LEG B

ADDISON, TX

1707AIFX.161, 1707AIFX.186, & 1707AIFX.188

CLARIFICATION NO.	QUANTITY
1-2.5" HDPE	601'

MCImetro
ACCESS TRANSMISSION SERVICES CORPORATION

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC CABLE ROUTE
VERIZON BUSINESS - LEG B
ADDISON, TX

DATE: 7/30/2018
ENGINEER: COBBFENDLEY
CHECKED BY: PM
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SCALE

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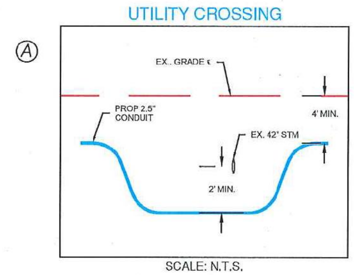
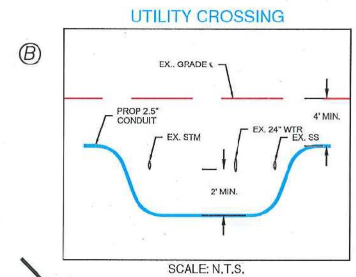
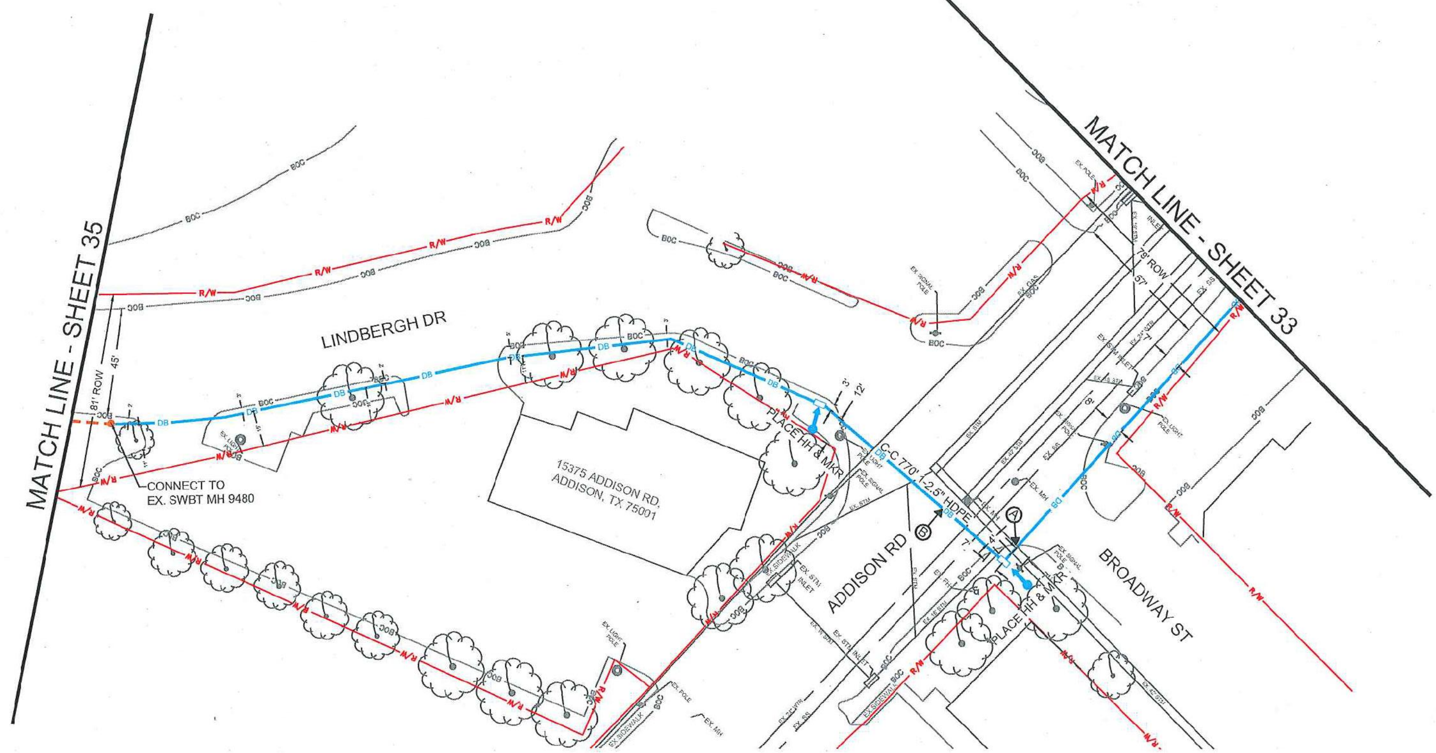
VERTICAL: N/A

SHEET 33 OF 65

FILE: LEG B_PERMIT SET_ADDISON.DWG







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verizonbusiness

PROJECT: HUB 044 - LEG B

ADDISON, TX
1707AIFX.161, 1707AIFX.186, & 1707AIFX.188

CLARIFICATION NO.	QUANTITY
1-2.5" HDPE	247'

MCImetro
ACCESS TRANSMISSION SERVICES CORPORATION

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC CABLE ROUTE
VERIZON BUSINESS - LEG B
ADDISON, TX

DATE: 7/30/2018
ENGINEER: COBBFENDLEY
CHECKED BY: PM
DRAWN BY: PN

REVISIONS

No.	DATE	DESCRIPTION	BY

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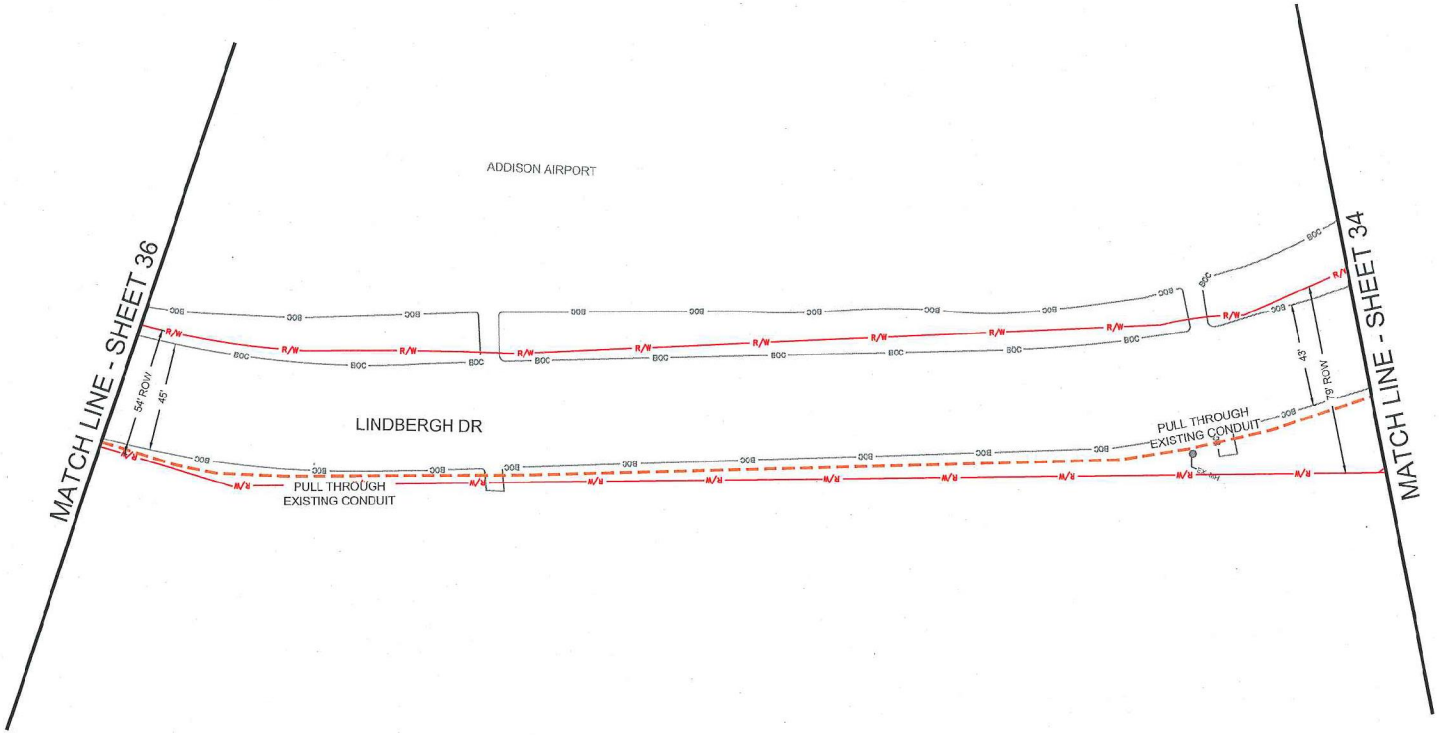
SCALE
HORIZONTAL: 1" = 50'
VERTICAL: N/A
SHEET 34 OF 65
FILE: LEG B_PERMIT SET_ADDISON.DWG



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verizonbusiness

PROJECT: HUB 044 - LEG B

ADDISON, TX

1707AIFX.161, 1707AIFX.186, & 1707AIFX.188

CLARIFICATION NO.	QUANTITY

MCImetro
ACCESS TRANSMISSION SERVICES CORPORATION

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC CABLE ROUTE
VERIZON BUSINESS - LEG B
ADDISON, TX

DATE: 7/30/2018

ENGINEER: COBBFENDLEY

CHECKED BY: PM

DRAWN BY: PN

REVISIONS

No.	DATE	DESCRIPTION	BY

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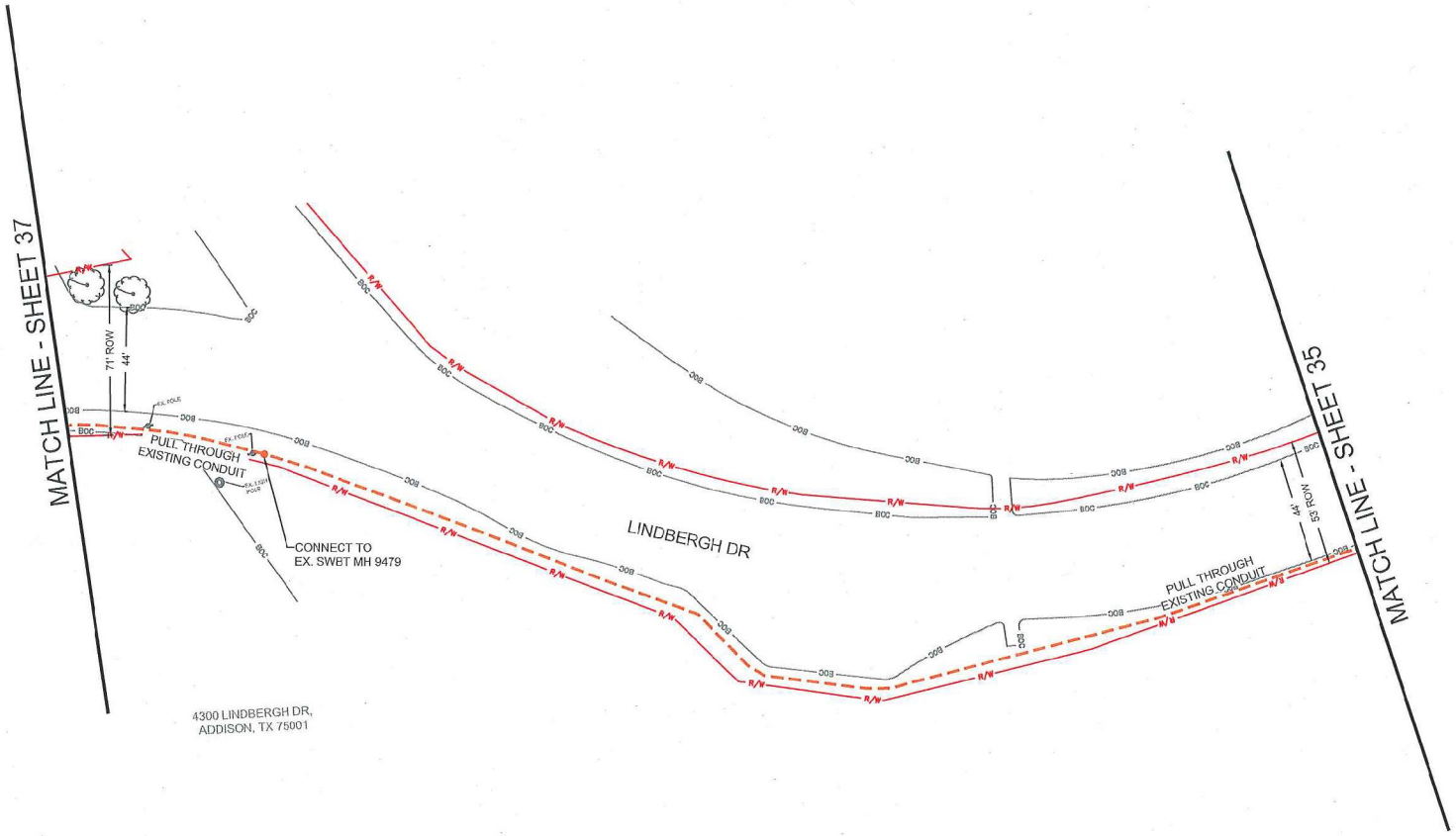
SCALE

HORIZONTAL: 1" = 50'

VERTICAL: N/A

SHEET 35 OF 65

FILE: LEG B_PERMIT SET_ADDISON.DWG



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verizonbusiness

PROJECT: HUB 044 - LEG B
ADDISON, TX
1707AIFX.161, 1707AIFX.186, & 1707AIFX.188

CLARIFICATION NO.	QUANTITY

MCImetro
ACCESS TRANSMISSION SERVICES CORPORATION

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC CABLE ROUTE
VERIZON BUSINESS - LEG B
ADDISON, TX

DATE: 7/30/2018
ENGINEER: COBBFENDLEY
CHECKED BY: PM
DRAWN BY: PN

REVISIONS

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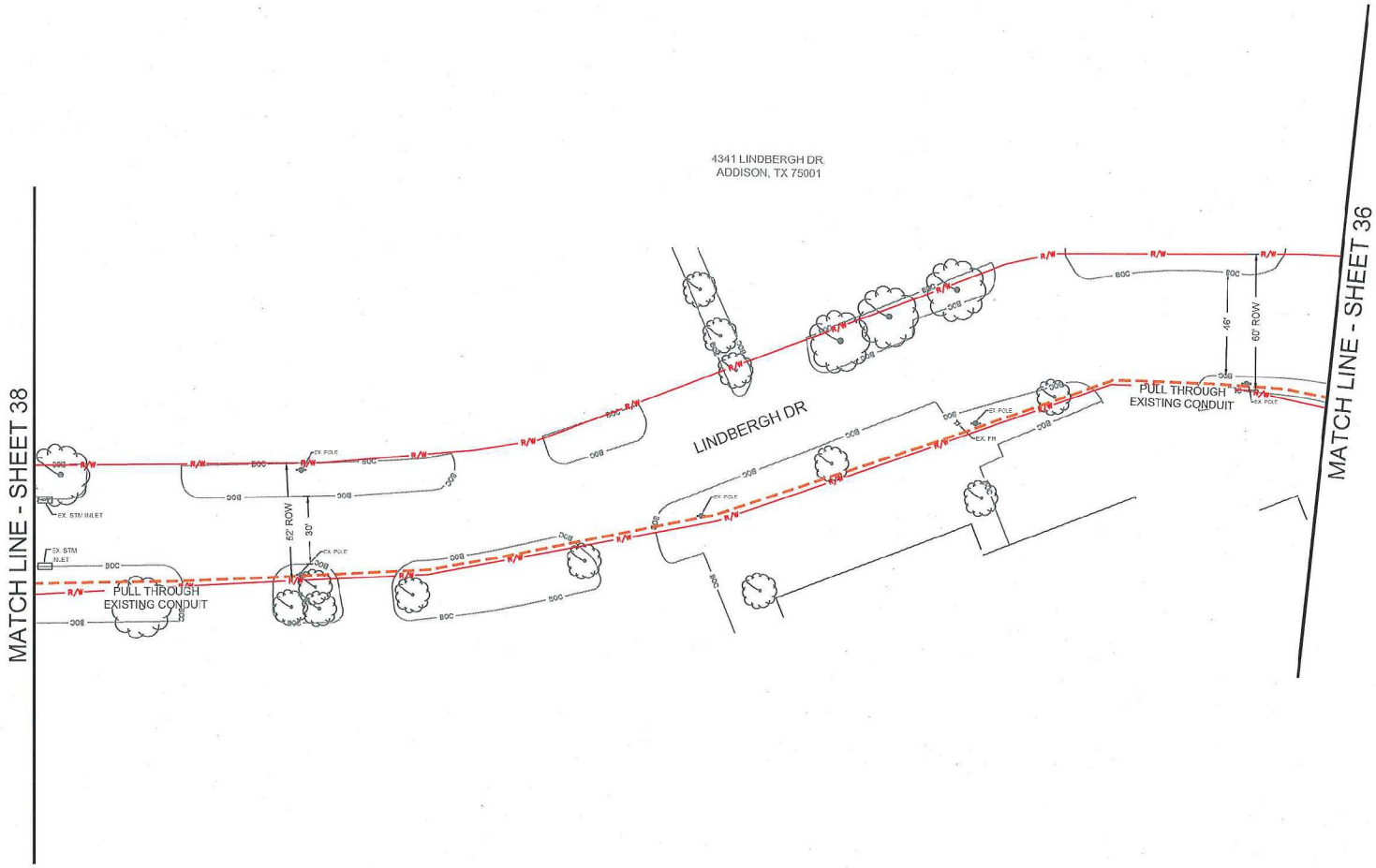
SCALE
HORIZONTAL: 1" = 50'
VERTICAL: N/A

SHEET 36 OF 65

FILE: LEG B_PERMIT SET_ADDISON.DWG



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PROJECT: HUB 044 - LEG B
ADDISON, TX
1707AIFX.161, 1707AIFX.186, & 1707AIFX.188

CLARIFICATION NO.	QUANTITY

MCImetro
ACCESS TRANSMISSION SERVICES CORPORATION

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC CABLE ROUTE
VERIZON BUSINESS - LEG B
ADDISON, TX

DATE: 7/30/2018
ENGINEER: COBBFENDLEY
CHECKED BY: PM
DRAWN BY: PN

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SCALE
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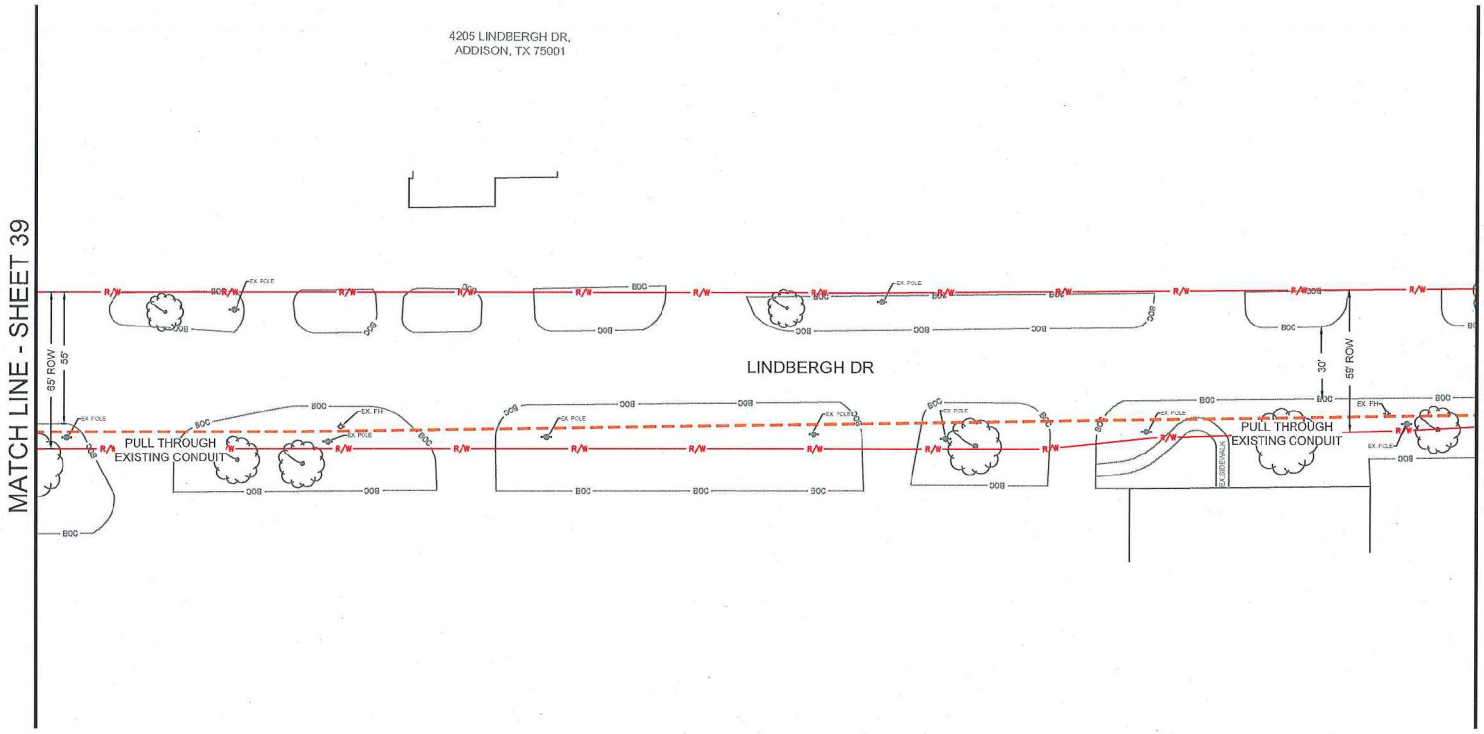
VERTICAL: N/A

FILE: LEG B_PERMIT SET_ADDISON.DWG



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PROJECT: HUB 044 - LEG B
ADDISON, TX
1707AIFX.161, 1707AIFX.186,
& 1707AIFX.188

CLARIFICATION NO.	QUANTITY

MCImetro
ACCESS TRANSMISSION SERVICES CORPORATION

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC CABLE ROUTE
VERIZON BUSINESS - LEG B
ADDISON, TX

DATE: 7/30/2018
ENGINEER: COBBFENDLEY
CHECKED BY: PM
DRAWN BY: PN

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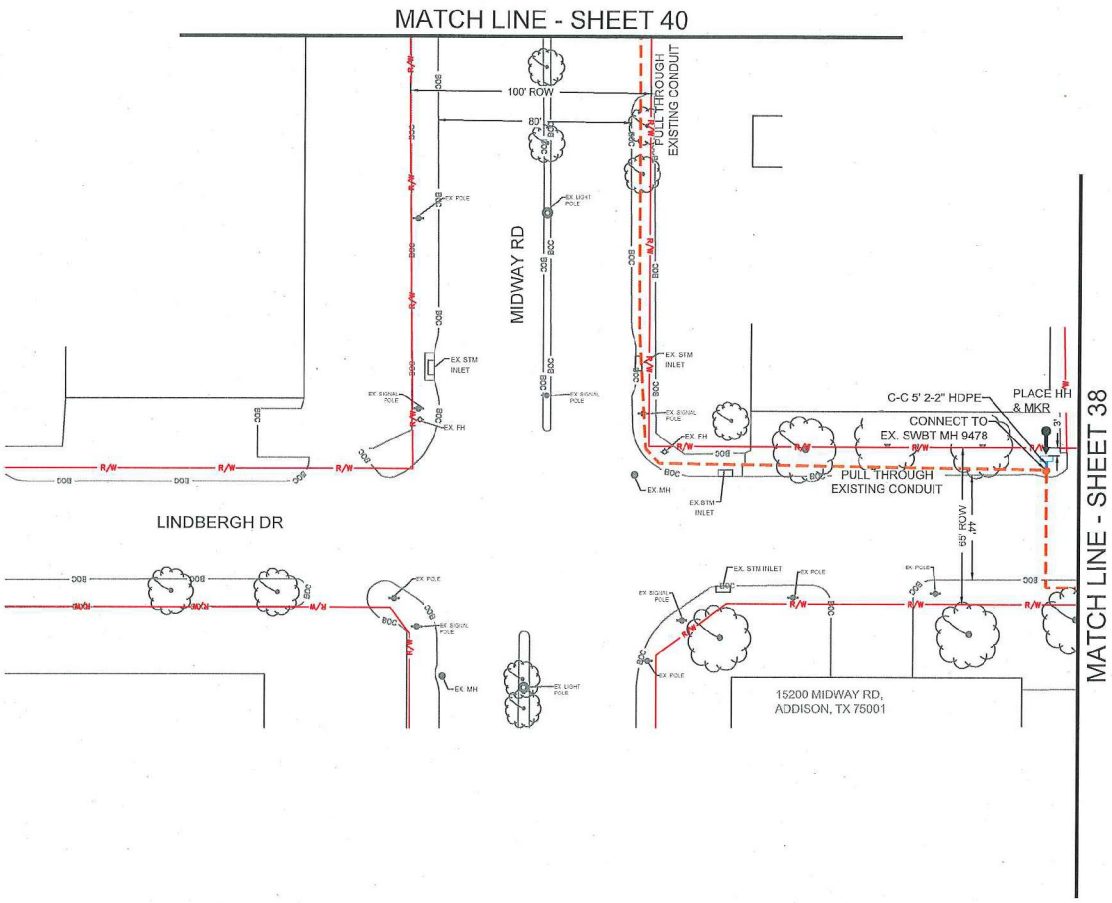
SCALE
HORIZONTAL: 1" = 50'
VERTICAL: N/A
SHEET 38 OF 65
FILE: LEG B_PERMIT SET_ADDISON.DWG



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PROJECT: HUB 044 - LEG B

ADDISON, TX

1707AIFX.161, 1707AIFX.186, & 1707AIFX.188

CLARIFICATION NO.	QUANTITY
2-2" HDPE	5'

MCImetro
ACCESS TRANSMISSION SERVICES CORPORATION

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC CABLE ROUTE
VERIZON BUSINESS - LEG B
ADDISON, TX

DATE: 7/30/2018
ENGINEER: COBBFENDLEY
CHECKED BY: PM
DRAWN BY: PN

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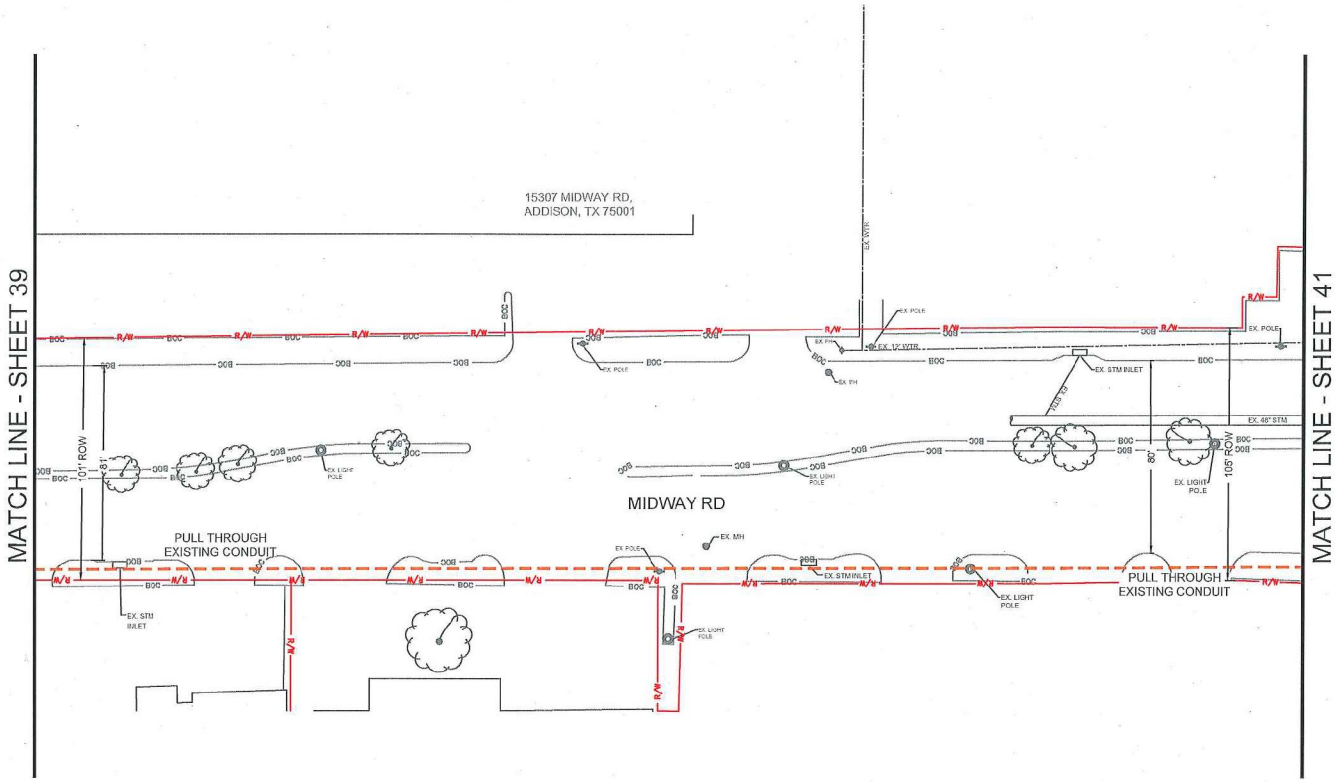
SCALE
HORIZONTAL: 1" = 50'
VERTICAL: N/A

SHEET 39 OF 65

FILE: LEG B_PERMIT SET_ADDISON.DWG



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verizonbusiness

PROJECT: HUB 044 - LEG B

ADDISON, TX

1707AIFX.161, 1707AIFX.186, & 1707AIFX.188

CLARIFICATION NO.	QUANTITY

MCImetro
ACCESS TRANSMISSION SERVICES CORPORATION

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC CABLE ROUTE
VERIZON BUSINESS - LEG B
ADDISON, TX

DATE: 7/30/2018

ENGINEER: COBBFENDLEY

CHECKED BY: PM

DRAWN BY: PN

REVISIONS

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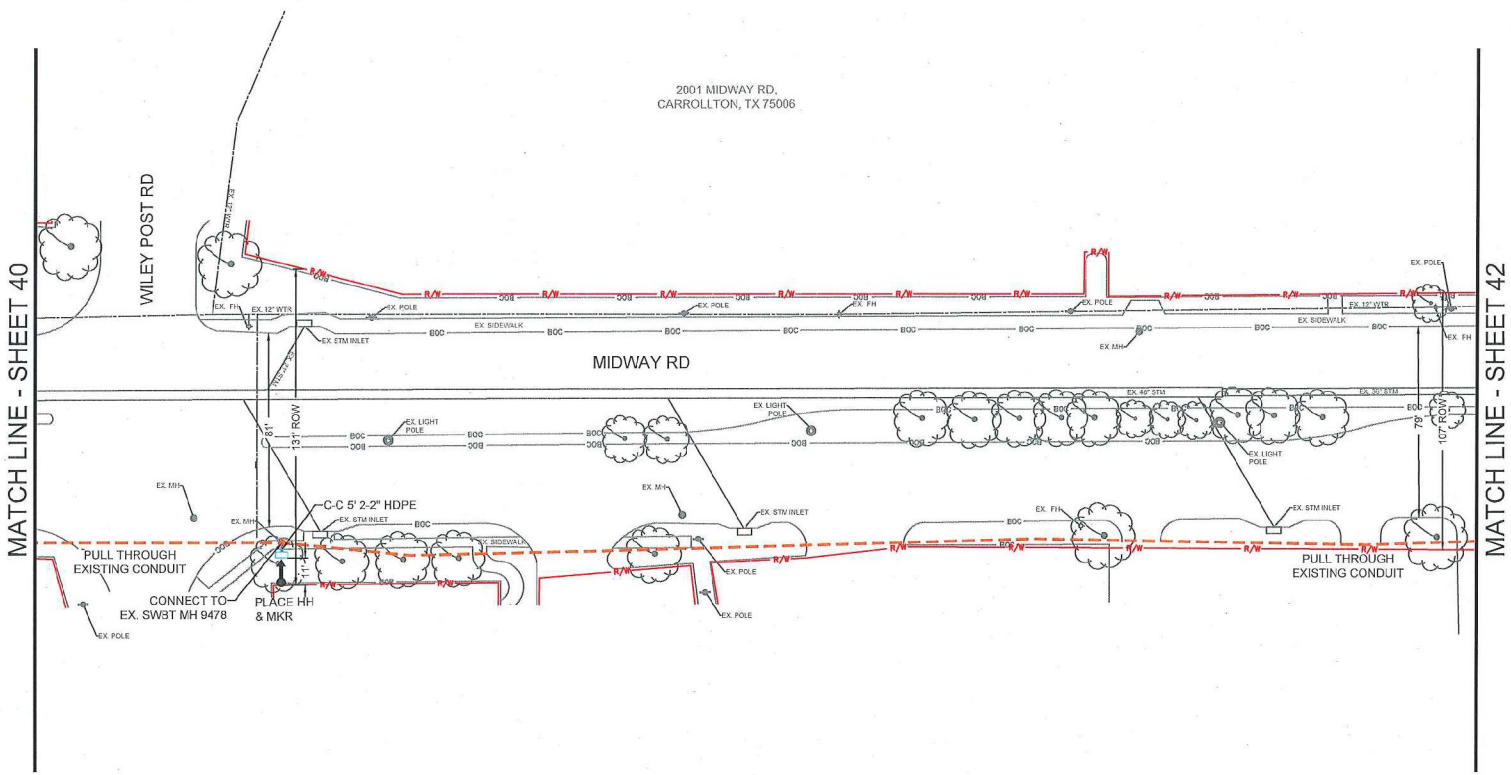
SCALE

HORIZONTAL: 1" = 50'

VERTICAL: N/A

SHEET 40 OF 65

FILE: LEG B_PERMIT SET_ADDISON.DWG



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verizonbusiness

PROJECT: HUB 044 - LEG B

ADDISON, TX

1707AIFX.161, 1707AIFX.186, & 1707AIFX.188

CLARIFICATION NO.	QUANTITY
2-2" HDPE	5'

MCImetro
ACCESS TRANSMISSION SERVICES CORPORATION

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC CABLE ROUTE
VERIZON BUSINESS - LEG B
ADDISON, TX

DATE: 7/30/2018
ENGINEER: COBBFENDLEY
CHECKED BY: PM
DRAWN BY: PN

REVISIONS

No.	DATE	DESCRIPTION	BY

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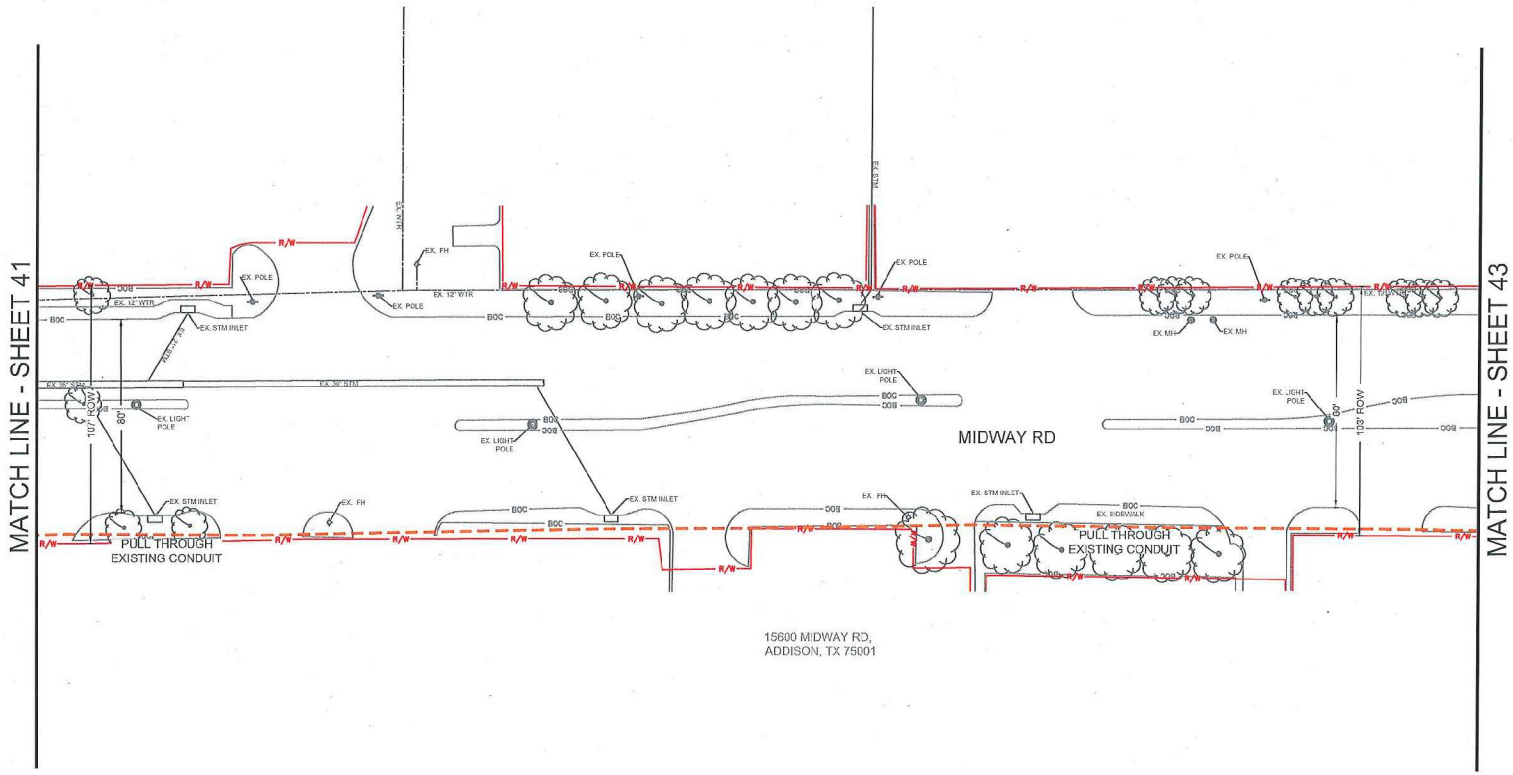
SCALE
HORIZONTAL: 1" = 50'
VERTICAL: N/A

SHEET 41 OF 65

FILE: LEG B_PERMIT SET_ADDISON.DWG



15600 MIDWAY RD,
ADDISON, TX 75001

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PROJECT: HUB 044 - LEG B
ADDISON, TX
1707AIFX.161, 1707AIFX.186,
& 1707AIFX.188

CLARIFICATION NO.	QUANTITY

MCImetro
ACCESS TRANSMISSION SERVICES CORPORATION

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC CABLE ROUTE
VERIZON BUSINESS - LEG B
ADDISON, TX

DATE: 7/30/2018
ENGINEER: COBBFENDLEY
CHECKED BY: PM
DRAWN BY: PN

REVISIONS

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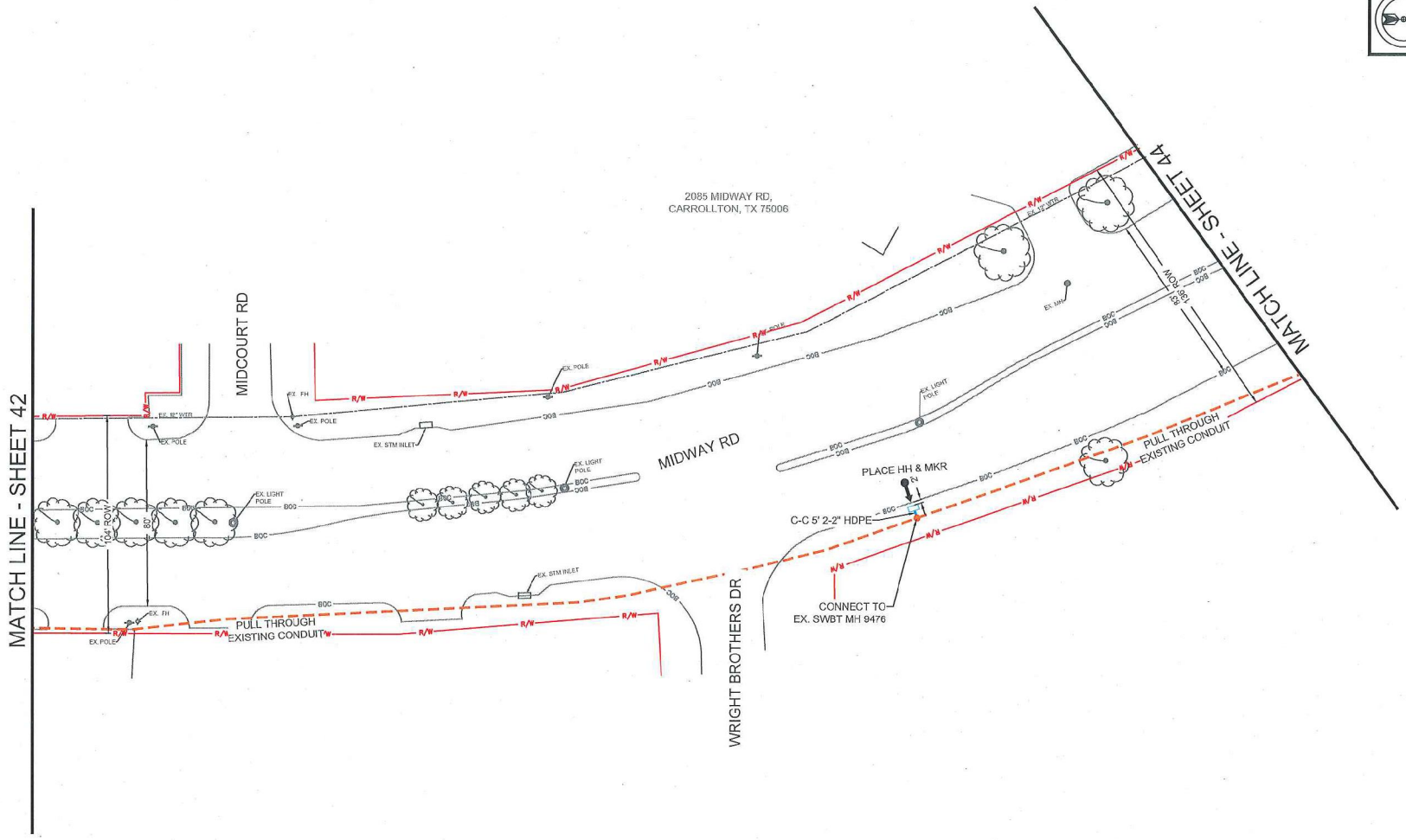
SCALE
HORIZONTAL: 1" = 50'
VERTICAL: N/A
SHEET 42 OF 65
FILE: LEG B_PERMIT SET_ADDISON.DWG



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PROJECT: HUB 044 - LEG B

ADDISON, TX

1707AIFX.161, 1707AIFX.186, & 1707AIFX.188

CLARIFICATION NO.	QUANTITY
2-2" HDPE	5'

MCImetro
ACCESS TRANSMISSION SERVICES CORPORATION

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC CABLE ROUTE
VERIZON BUSINESS - LEG B
ADDISON, TX

DATE: 7/30/2016
ENGINEER: COBBFENDLEY
CHECKED BY: PM
DRAWN BY: PN

REVISIONS

No.	DATE	DESCRIPTION	BY

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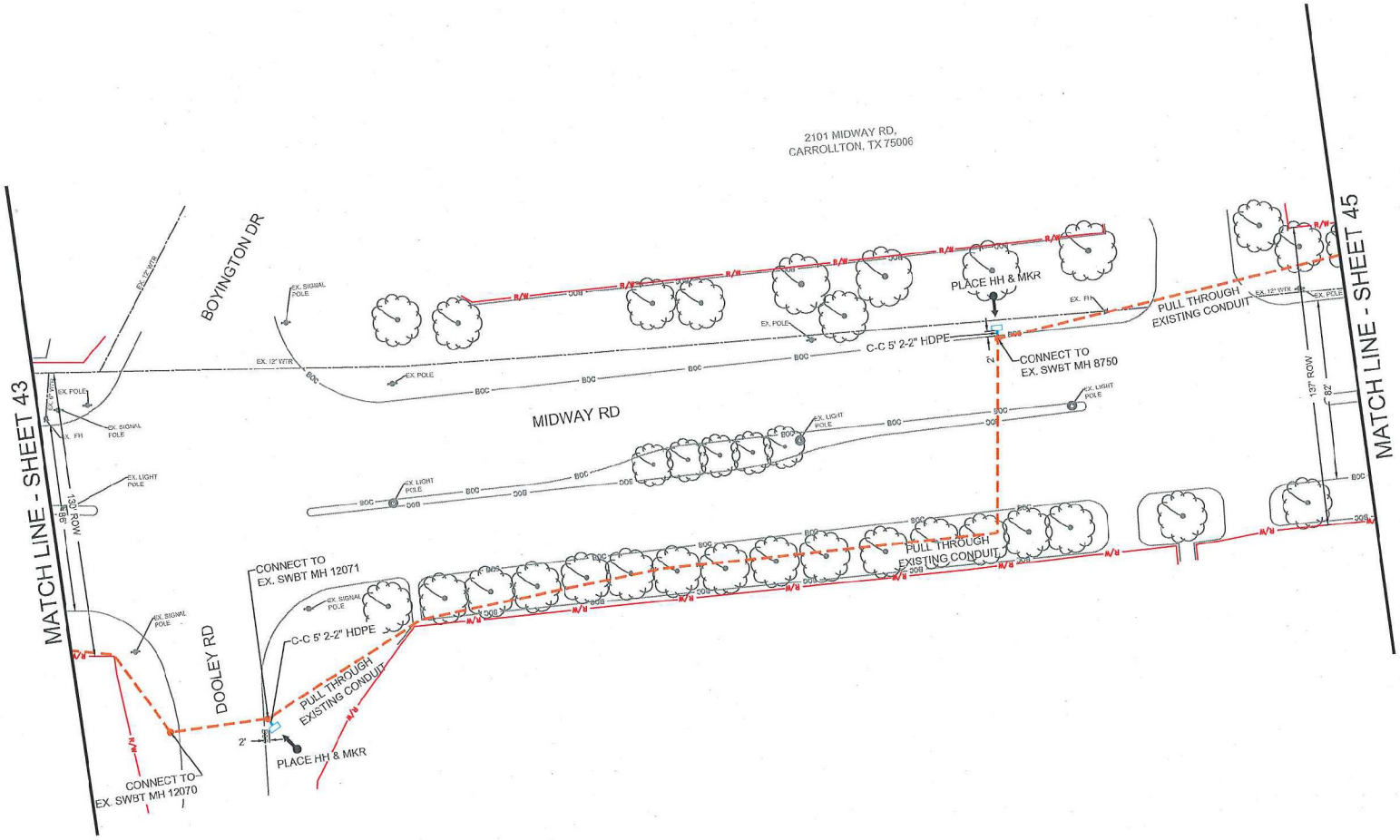
SCALE
HORIZONTAL: 1" = 50'
VERTICAL: N/A

SHEET 43 OF 65

FILE: LEG B_PERMIT SET_ADDISON.DWG



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PROJECT: HUB 044 - LEG B

ADDISON, TX

1707AIFX.161, 1707AIFX.186, & 1707AIFX.188

CLARIFICATION NO.	QUANTITY
2-2" HDPE	10'

MCImetro
ACCESS TRANSMISSION SERVICES CORPORATION

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC CABLE ROUTE
VERIZON BUSINESS - LEG B
ADDISON, TX

DATE: 7/30/2018
ENGINEER: COBBFENDLEY
CHECKED BY: PM
DRAWN BY: PN

REVISIONS

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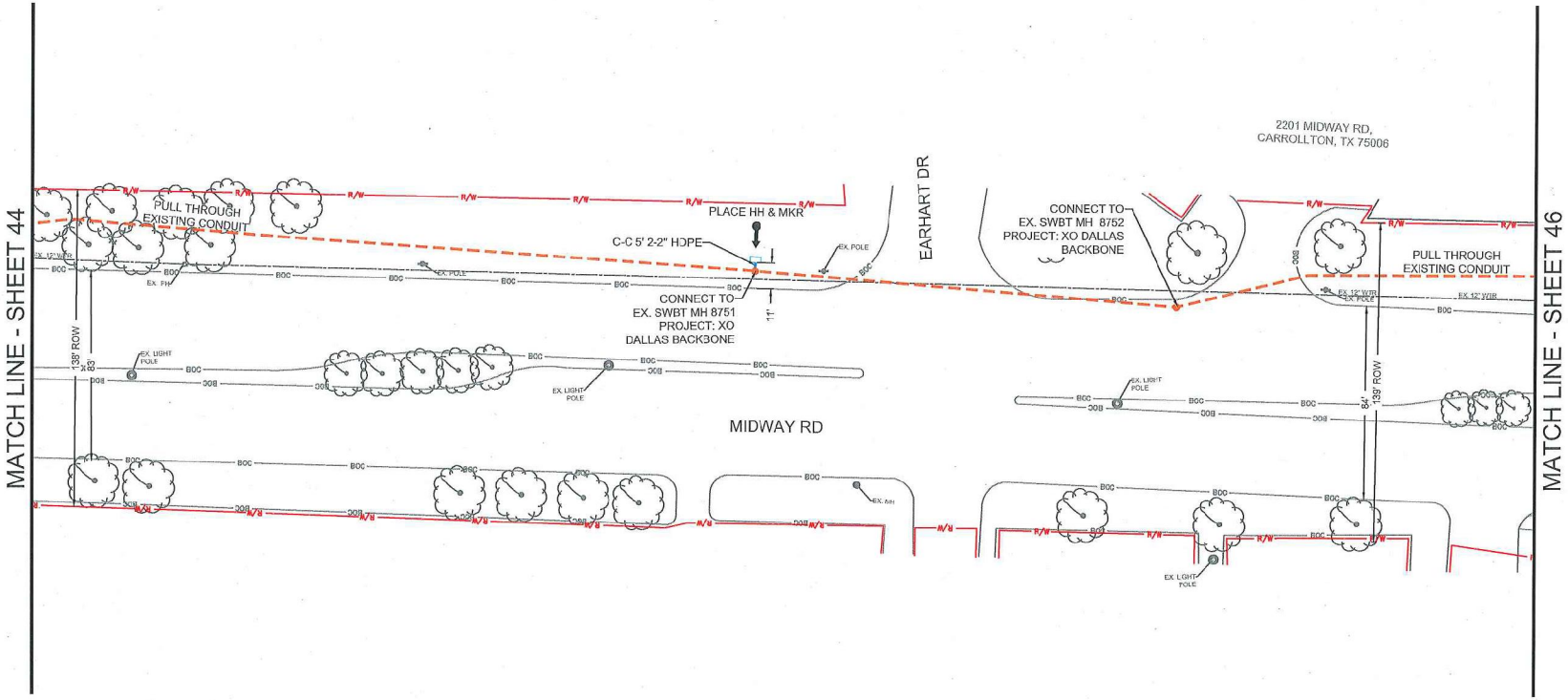
SCALE

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

SHEET 44 OF 65

FILE: LEG B_PERMIT SET_ADDISON.DWG



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811 Know what's below. Call before you dig.

verizonbusiness

PROJECT: HUB 044 - LEG B

ADDISON, TX

1707AIFX.161, 1707AIFX.186, & 1707AIFX.188

CLARIFICATION NO.	QUANTITY
2-2" HDPE	5'

MCImetro
ACCESS TRANSMISSION SERVICES CORPORATION

OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
VERIZON BUSINESS - LEG B
ADDISON, TX

DATE: 7/30/2018
ENGINEER: COBBFENDLEY
CHECKED BY: PM
DRAWN BY: PN

REVISIONS

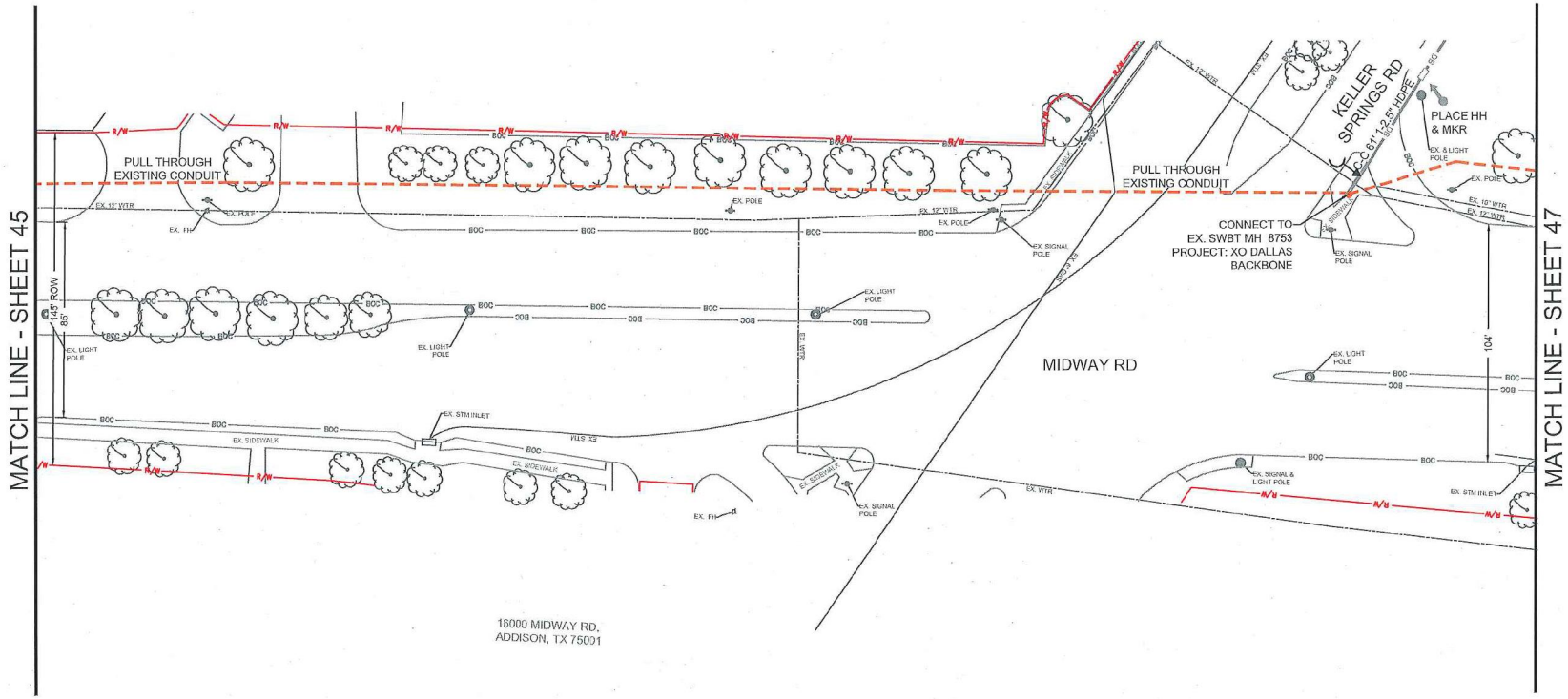
No.	DATE	DESCRIPTION	BY

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: N/A

SHEET 45 OF 65

FILE: LEG B_PERMIT SET_ADDISON.DWG



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verizonbusiness

PROJECT: HUB 044 - LEG B
ADDISON, TX
1707AIFX.161, 1707AIFX.186, & 1707AIFX.188

CLARIFICATION NO.	QUANTITY

MCImetro
ACCESS TRANSMISSION SERVICES CORPORATION

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC CABLE ROUTE
VERIZON BUSINESS - LEG B
ADDISON, TX

DATE: 7/30/2016
ENGINEER: COBBFENDLEY
CHECKED BY: PM
DRAWN BY: PN

REVISIONS

No.	DATE	DESCRIPTION	BY

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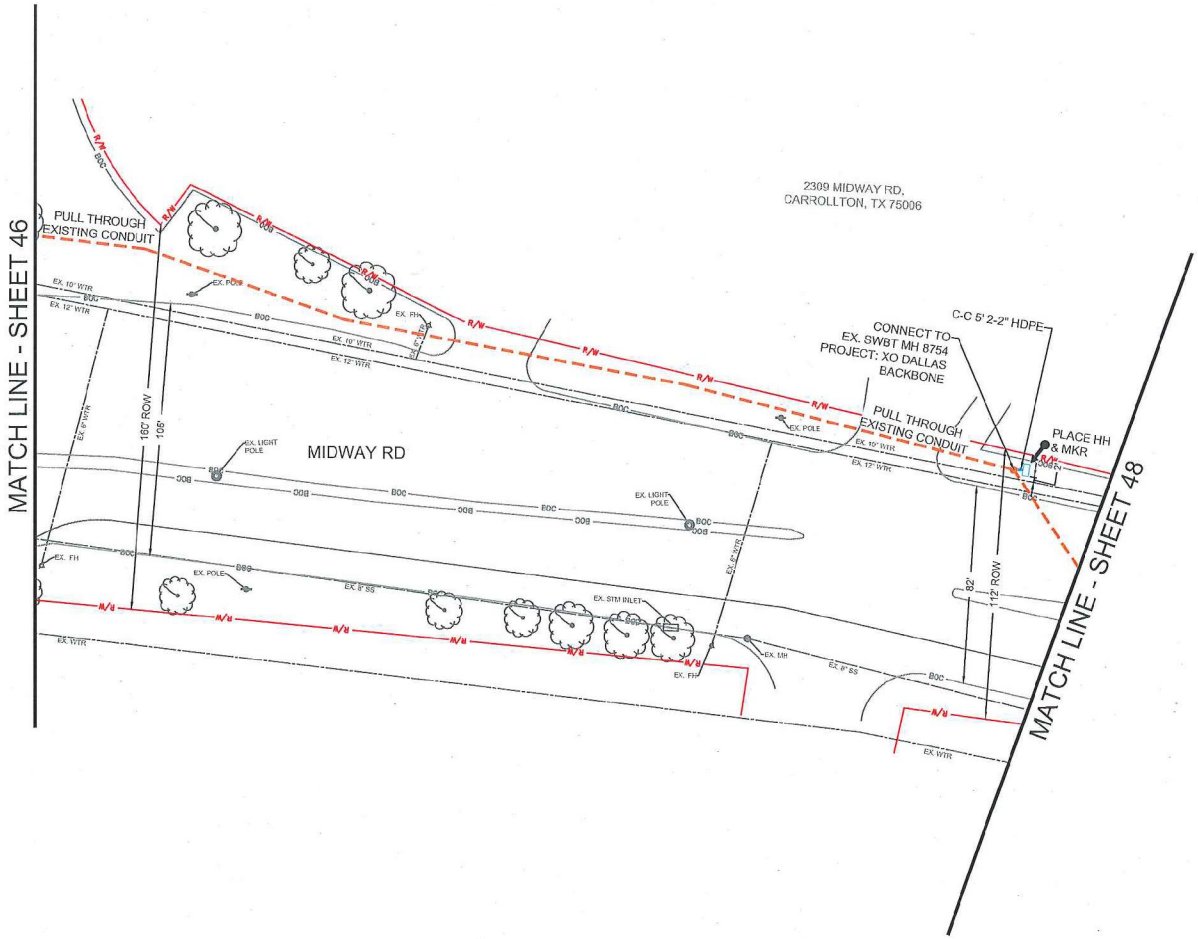
SCALE
HORIZONTAL: 1" = 50'
VERTICAL: N/A

SHEET 46 OF 65

FILE: LEG B_PERMIT SET_ADDISON.DWG



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verizonbusiness

PROJECT: HUB 044 - LEG B
ADDISON, TX
1707AIFX.161, 1707AIFX.186, & 1707AIFX.188

CLARIFICATION NO.	QUANTITY
2-2" HDPE	5'

MCImetro
ACCESS TRANSMISSION SERVICES CORPORATION

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC CABLE ROUTE
VERIZON BUSINESS - LEG B
ADDISON, TX

DATE: 7/30/2018
ENGINEER: COBBFENDLEY
CHECKED BY: PM
DRAWN BY: PN

REVISIONS

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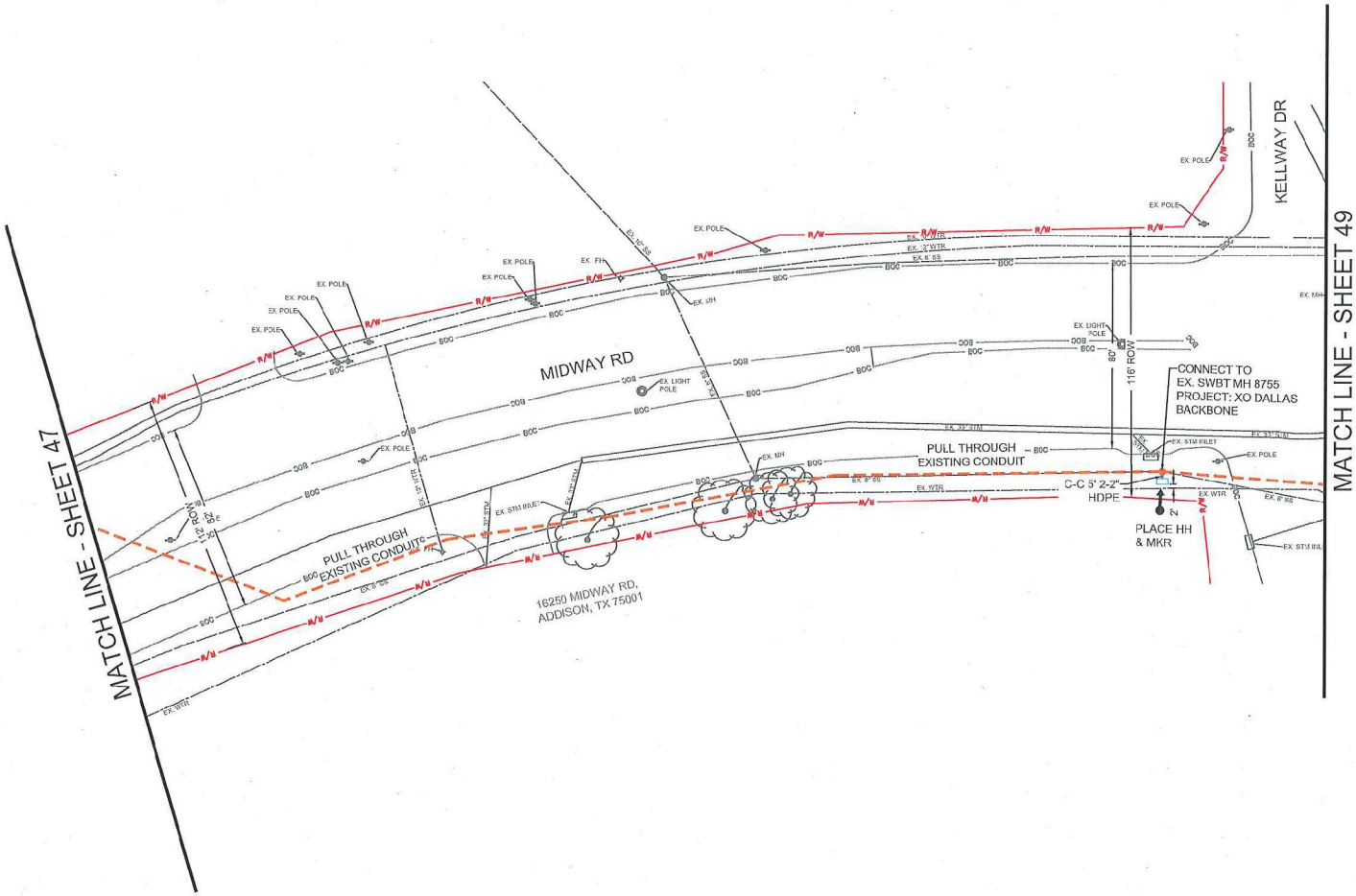
SCALE
HORIZONTAL: 1" = 50'
VERTICAL: N/A

SHEET 47 OF 65

FILE: LEG B_PERMIT SET_ADDISON.DWG



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PROJECT: HUB 044 - LEG B

ADDISON, TX

1707AIFX.161, 1707AIFX.186, & 1707AIFX.188

CLARIFICATION NO.	QUANTITY
2-2" HDPE	5'

MCImetro
ACCESS TRANSMISSION SERVICES CORPORATION

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC CABLE ROUTE
VERIZON BUSINESS - LEG B
ADDISON, TX

DATE: 7/30/2018
ENGINEER: COBBFENDLEY
CHECKED BY: PM
DRAWN BY: PN

REVISIONS

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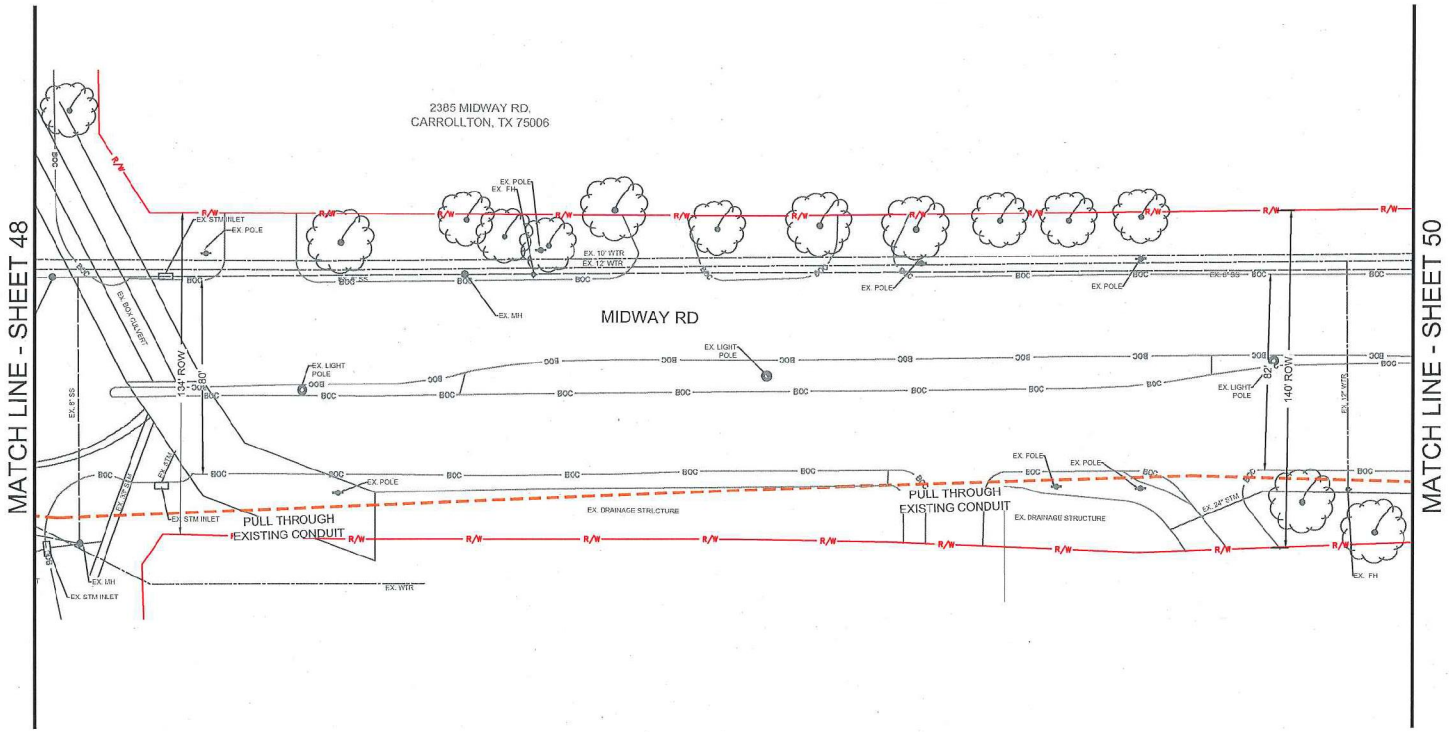
SCALE

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

SHEET 48 OF 65

FILE: LEG B_PERMIT SET_ADDISON.DWG



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verizonbusiness

PROJECT: HUB 044 - LEG B
ADDISON, TX
1707AIFX.161, 1707AIFX.186, & 1707AIFX.188

CLARIFICATION NO.	QUANTITY

MCImetro
ACCESS TRANSMISSION SERVICES CORPORATION

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC CABLE ROUTE
VERIZON BUSINESS - LEG B
ADDISON, TX

DATE: 7/30/2018
ENGINEER: COBBFENDLEY
CHECKED BY: PM
DRAWN BY: PN

REVISIONS

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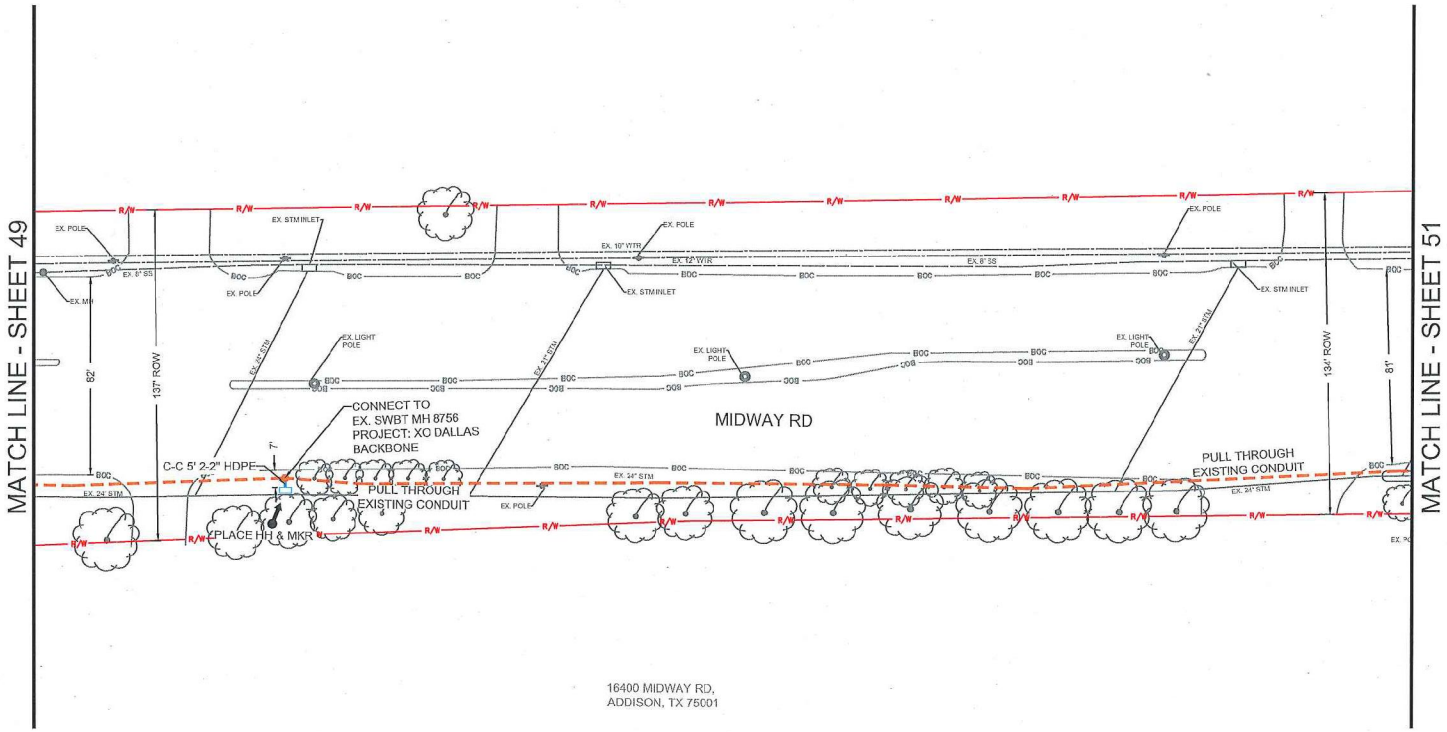
SCALE
HORIZONTAL: 1" = 50'
VERTICAL: N/A
SHEET 49 OF 65
FILE: LEG B_PERMIT SET_ADDISON.DWG



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verizonbusiness

PROJECT: HUB 044 - LEG B
ADDISON, TX
1707AIFX.161, 1707AIFX.186, & 1707AIFX.188

CLARIFICATION NO.	QUANTITY
2-2" HDPE	5'

MCImetro
ACCESS TRANSMISSION SERVICES CORPORATION

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC CABLE ROUTE
VERIZON BUSINESS - LEG B
ADDISON, TX

DATE: 7/30/2018
ENGINEER: COBBFENDLEY
CHECKED BY: PM
DRAWN BY: PN

REVISIONS

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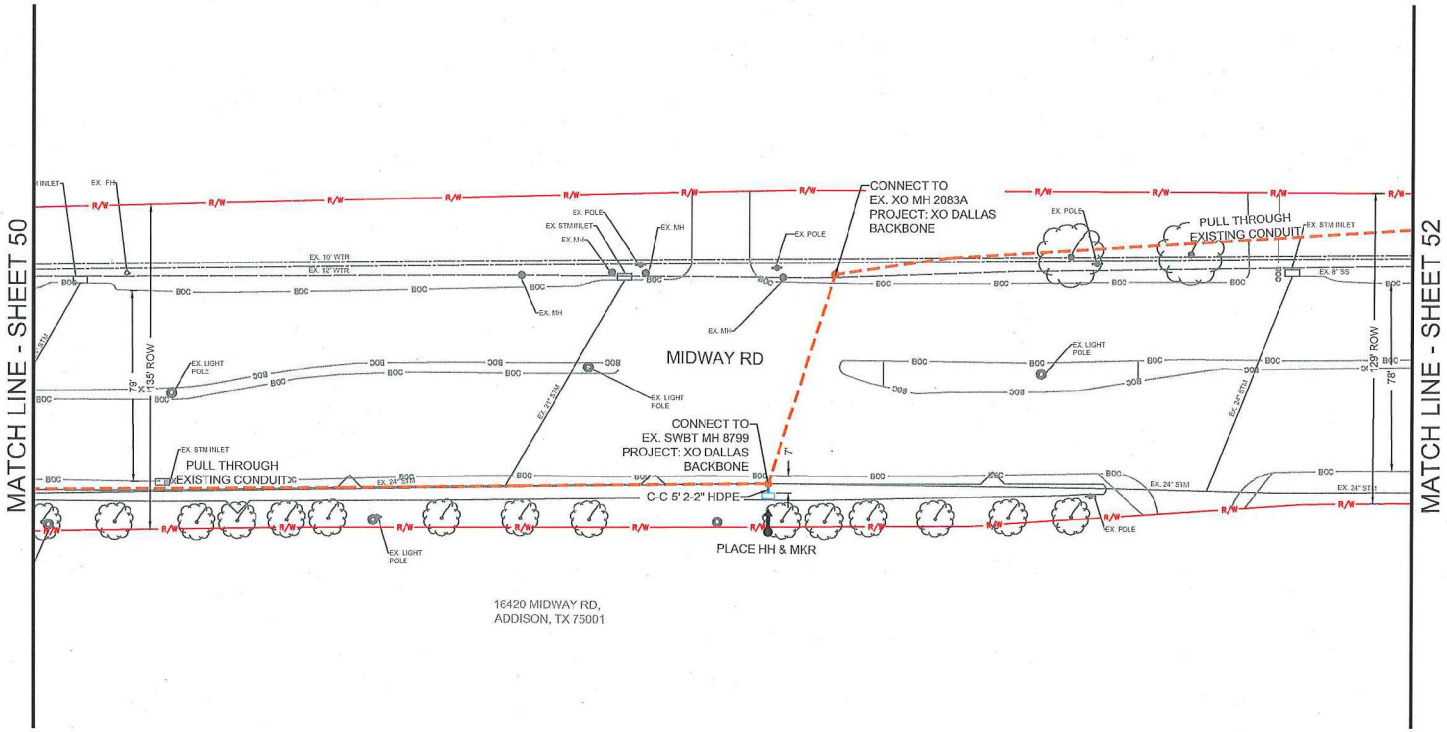
SCALE
HORIZONTAL: 1" = 50'
VERTICAL: N/A
SHEET 50 OF 65
FILE: LEG B_PERMIT SET_ADDISON.DWG



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verizonbusiness

PROJECT: HUB 044 - LEG B
ADDISON, TX
1707AIFX.161, 1707AIFX.166, & 1707AIFX.188

CLARIFICATION NO.	QUANTITY
2-2" HDPE	5'

MCImetro
ACCESS TRANSMISSION SERVICES CORPORATION

OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
VERIZON BUSINESS - LEG B
ADDISON, TX

DATE: 7/30/2018
ENGINEER: COBBFENDLEY
CHECKED BY: PM
DRAWN BY: PN

REVISIONS

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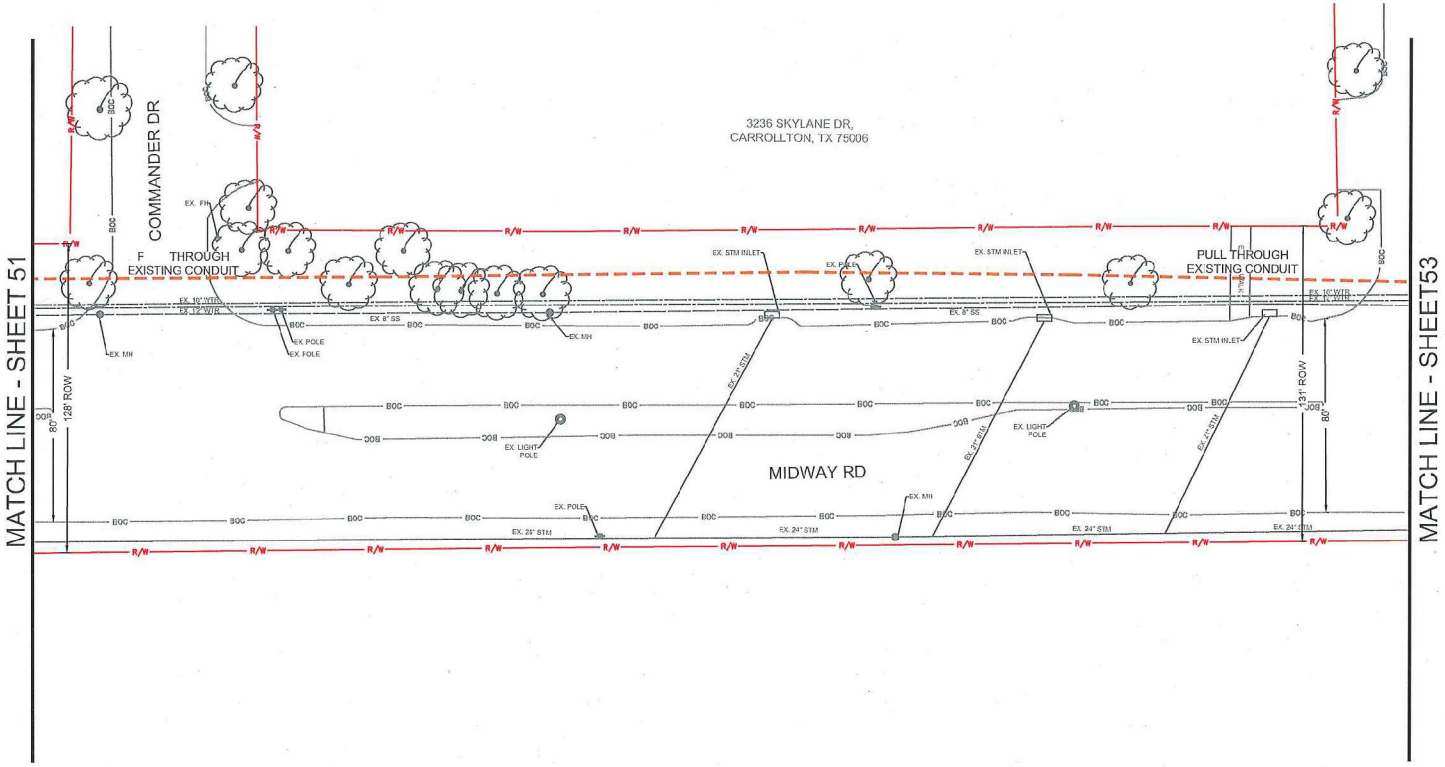
SCALE
HORIZONTAL: 1" = 50'
VERTICAL: N/A
SHEET 51 OF 65
FILE: LEG B_PERMIT SET_ADDISON.DWG



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verizonbusiness

PROJECT: HUB 044 - LEG B

ADDISON, TX

1707AIFX.161, 1707AIFX.180, & 1707AIFX.188

CLARIFICATION NO.	QUANTITY

MCImetro
ACCESS TRANSMISSION SERVICES CORPORATION

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC CABLE ROUTE
VERIZON BUSINESS - LEG B
ADDISON, TX

DATE: 7/30/2018

ENGINEER: COBBFENDLEY

CHECKED BY: PM

DRAWN BY: PN

REVISIONS

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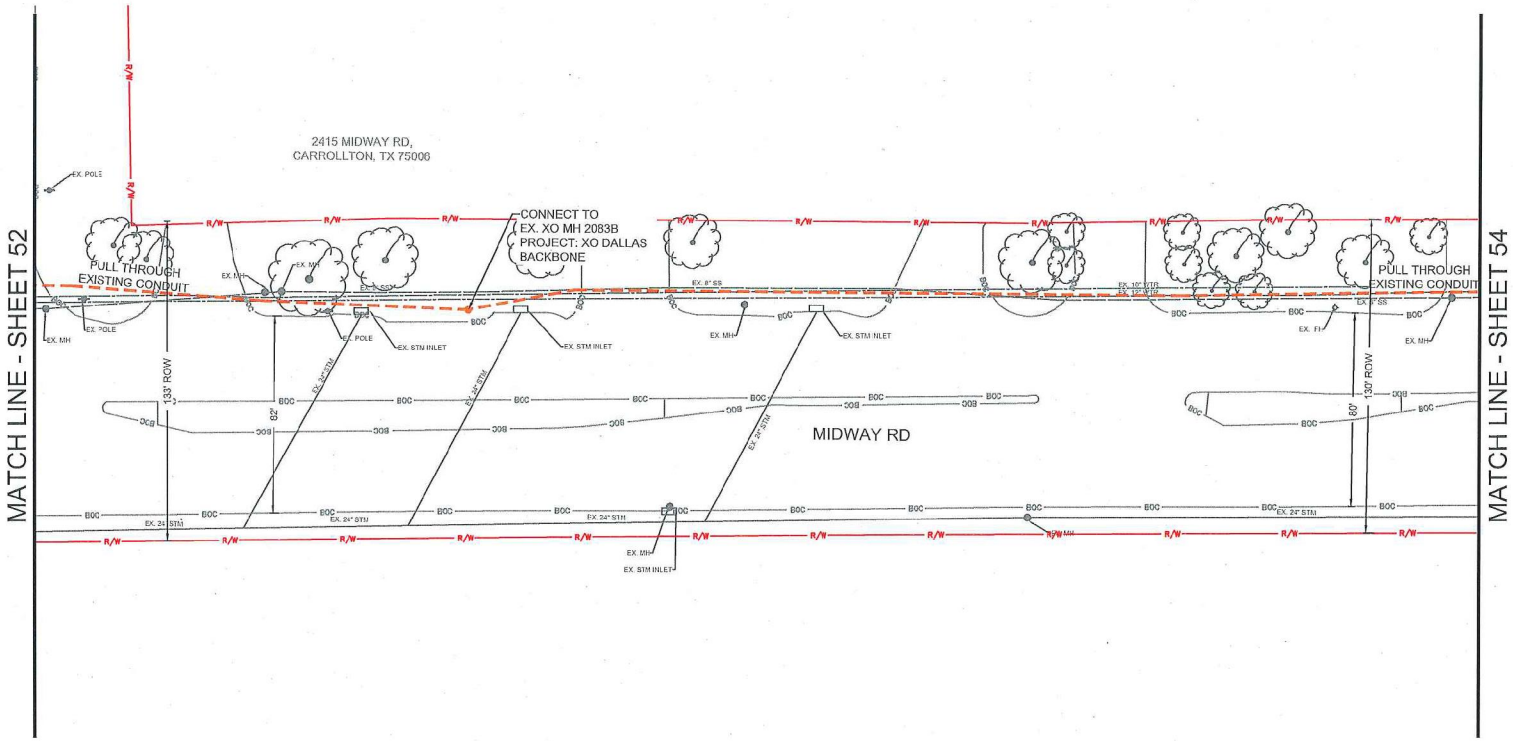
SCALE

HORIZONTAL: 1" = 50'

VERTICAL: N/A

SHEET 52 OF 65

FILE: LEG B_PERMIT SET_ADDISON.DWG



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verizonbusiness

PROJECT: HUB 044 - LEG B
ADDISON, TX
1707AIFX.161, 1707AIFX.186, & 1707AIFX.188

CLARIFICATION NO.	QUANTITY

MCImetro
ACCESS TRANSMISSION SERVICES CORPORATION

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC CABLE ROUTE
VERIZON BUSINESS - LEG B
ADDISON, TX

DATE: 7/30/2018
ENGINEER: COBBFENDLEY
CHECKED BY: PM
DRAWN BY: PN

REVISIONS

No.	DATE	DESCRIPTION	BY

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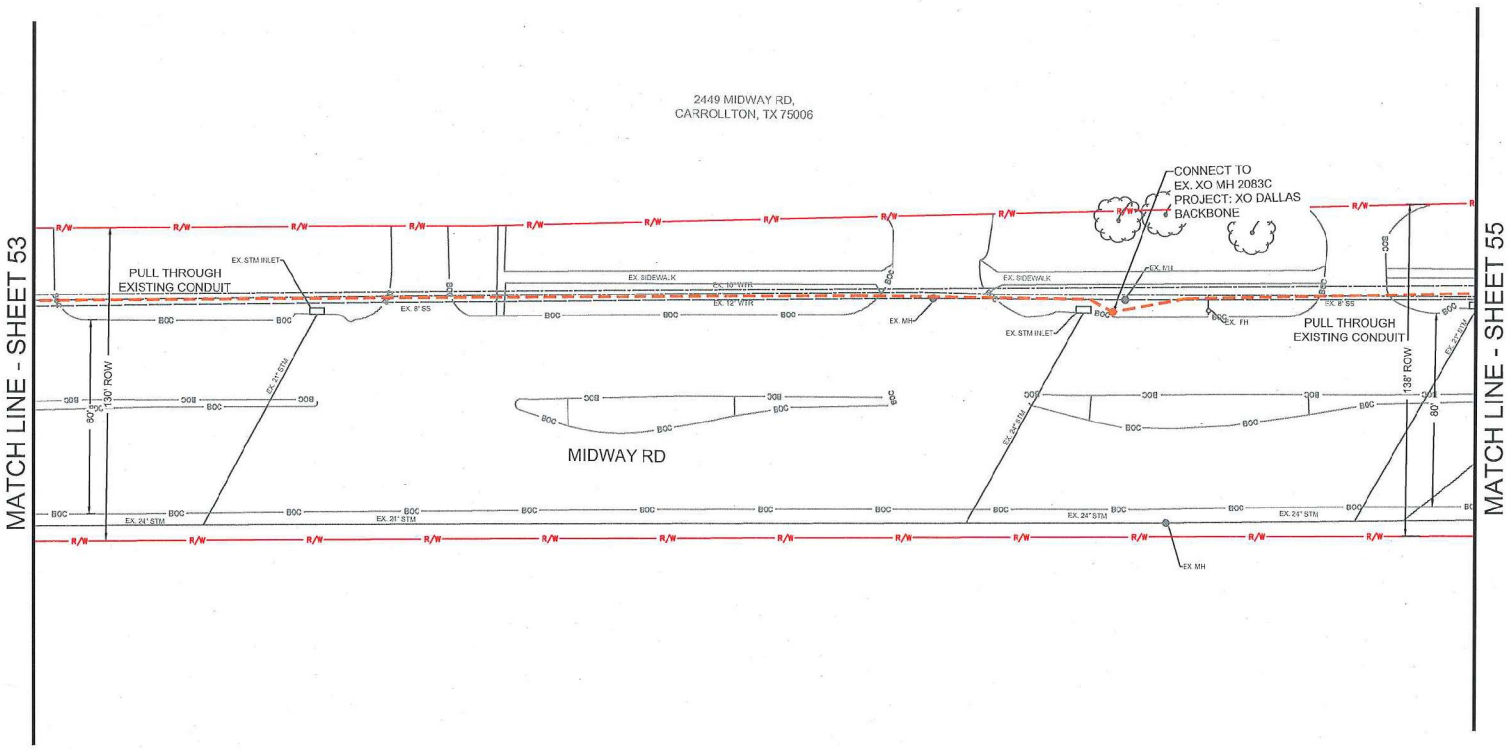
SCALE
HORIZONTAL: 1" = 50'
VERTICAL: N/A

SHEET 53 OF 65

FILE: LEG B_PERMIT SET_ADDISON.DWG



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verizonbusiness

PROJECT: HUB 044 - LEG B
ADDISON, TX
1707AIFX.161, 1707AIFX.186, & 1707AIFX.188

CLARIFICATION NO.	QUANTITY

MCImetro
ACCESS TRANSMISSION SERVICES CORPORATION

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC CABLE ROUTE
VERIZON BUSINESS - LEG B
ADDISON, TX

DATE: 7/30/2018
ENGINEER: COBBFENDLEY
CHECKED BY: PM
DRAWN BY: PN

REVISIONS

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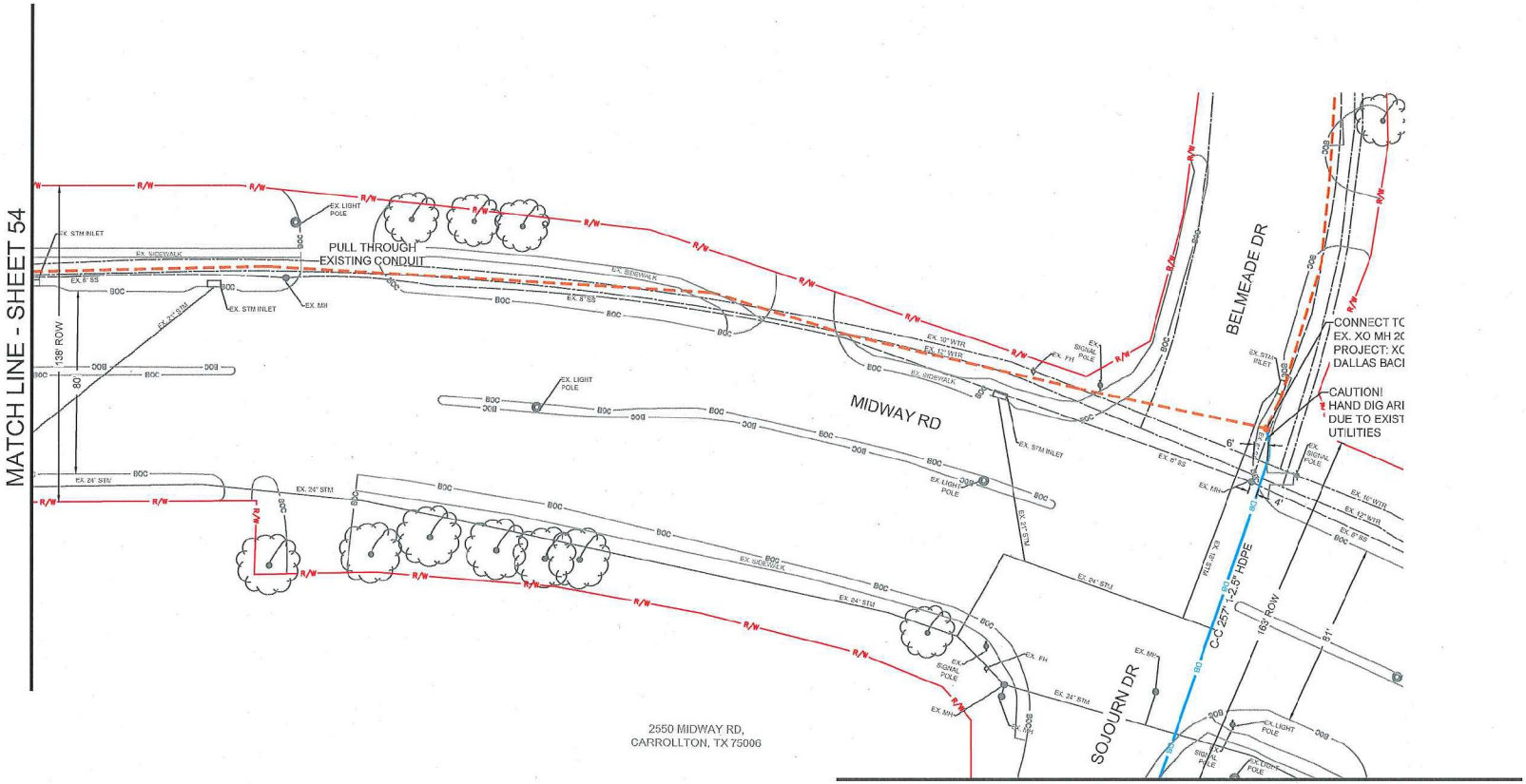
SCALE
HORIZONTAL: 1" = 50'
VERTICAL: N/A
SHEET 54 OF 65
FILE: LEG B_PERMIT SET_ADDISON.DWG



verizonbusiness

PROJECT: HUB 044 - LEG B

ADDISON, TX

1707AIFX.161, 1707AIFX.186, & 1707AIFX.188

CLARIFICATION NO.	QUANTITY

MCImetro
ACCESS TRANSMISSION SERVICES CORPORATION

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC CABLE ROUTE
VERIZON BUSINESS - LEG B
ADDISON, TX

DATE: 7/30/2018

ENGINEER: COBBFENDLEY

CHECKED BY: PM

DRAWN BY: PN

REVISIONS

No.	DATE	DESCRIPTION	BY

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SCALE

HORIZONTAL: 1" = 50'

VERTICAL: N/A

SHEET 55 OF 65

FILE: LEG B_PERMIT SET_ADDISON.DWG

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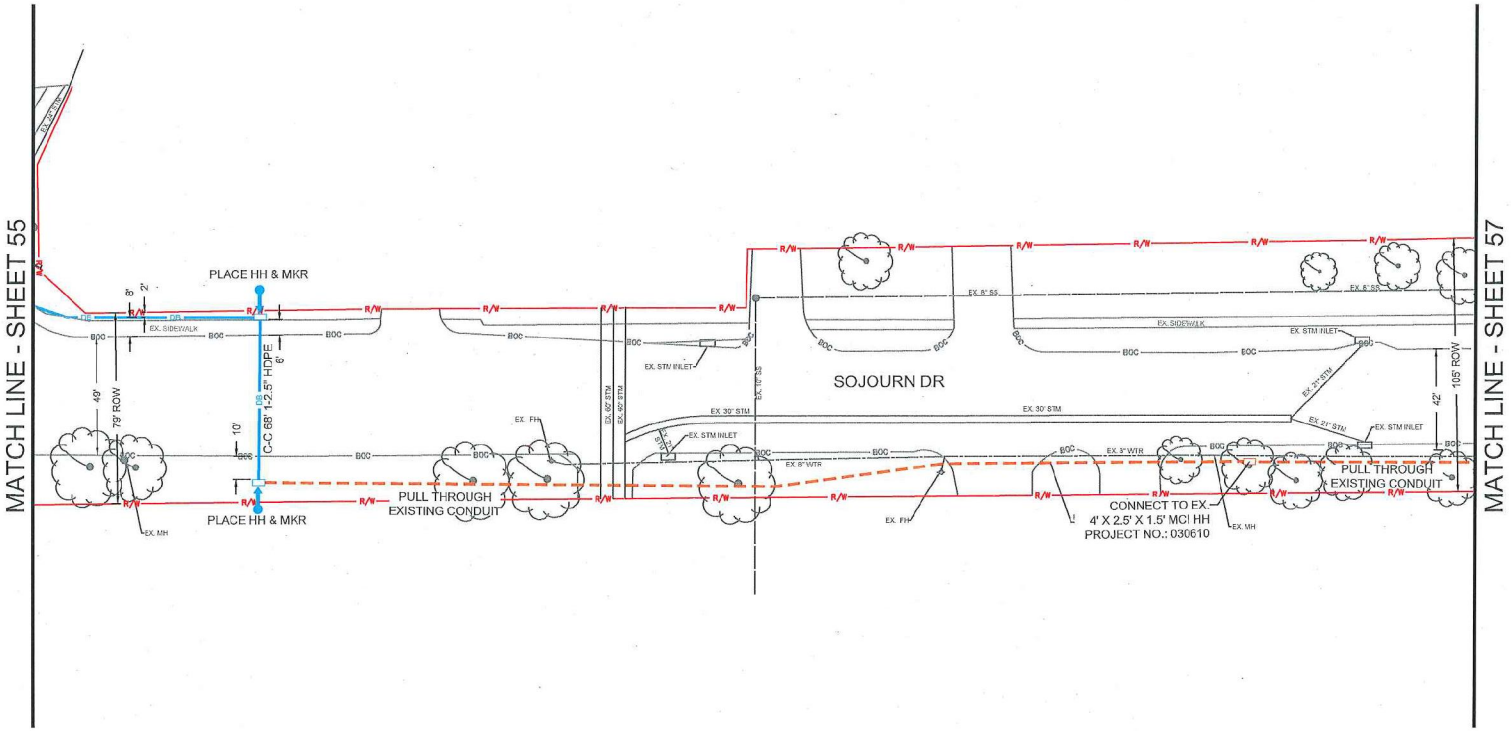

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verizonbusiness

PROJECT: HUB 044 - LEG B
ADDISON, TX
1707AIFX.161, 1707AIFX.186, & 1707AIFX.188

CLARIFICATION NO.	QUANTITY
1-2.5" HDPE	69'

MCImetro
ACCESS TRANSMISSION SERVICES CORPORATION

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC CABLE ROUTE
VERIZON BUSINESS - LEG B
ADDISON, TX

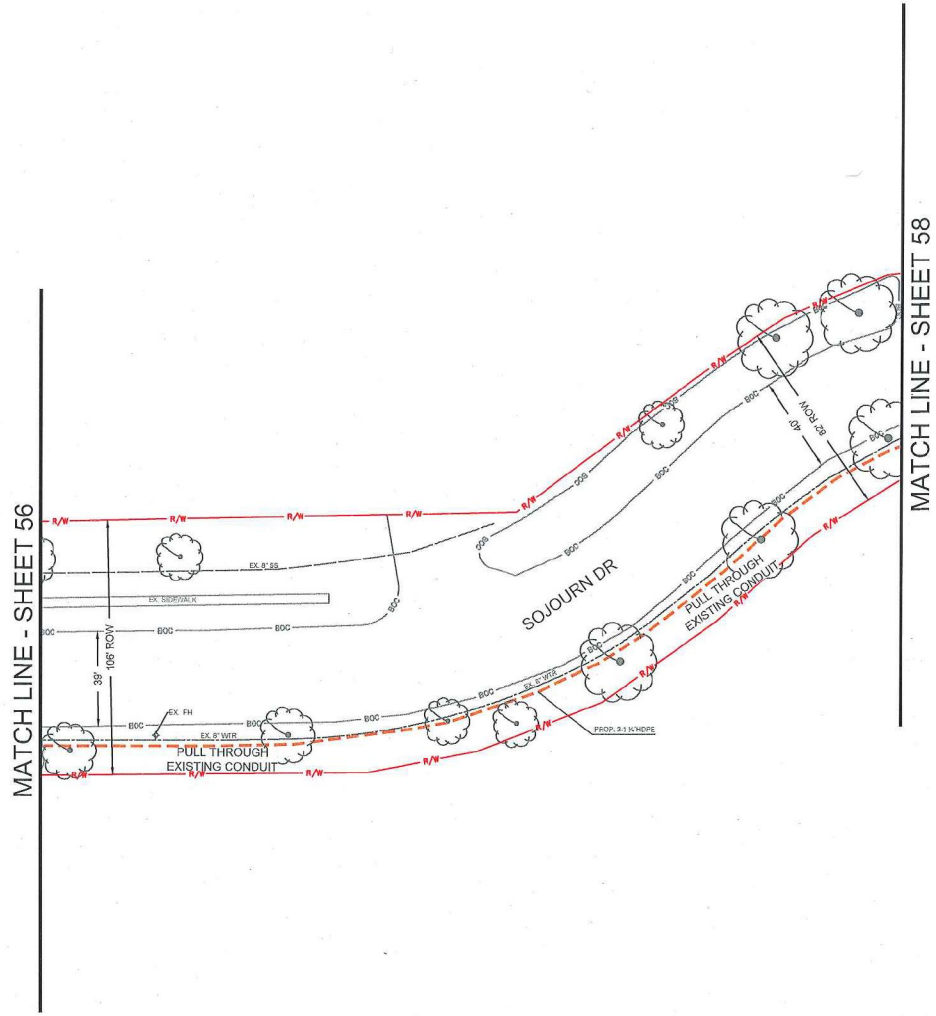
DATE: 7/30/2018
ENGINEER: COBBFENDLEY
CHECKED BY: PM
DRAWN BY: PN

REVISIONS

No.	DATE	DESCRIPTION	BY

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: N/A
SHEET 56 OF 65
FILE: LEG B_PERMIT SET_ADDISON.DWG



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

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811 Know what's below. Call before you dig.

verizonbusiness

PROJECT: HUB 044 - LEG B
ADDISON, TX
1707AIFX.161, 1707AIFX.186, & 1707AIFX.188

CLARIFICATION NO.	QUANTITY

MCImetro
ACCESS TRANSMISSION SERVICES CORPORATION

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC CABLE ROUTE
VERIZON BUSINESS - LEG B
ADDISON, TX

DATE: 7/30/2018
ENGINEER: COBBFENDLEY
CHECKED BY: PM
DRAWN BY: PN

REVISIONS

No.	DATE	DESCRIPTION	BY

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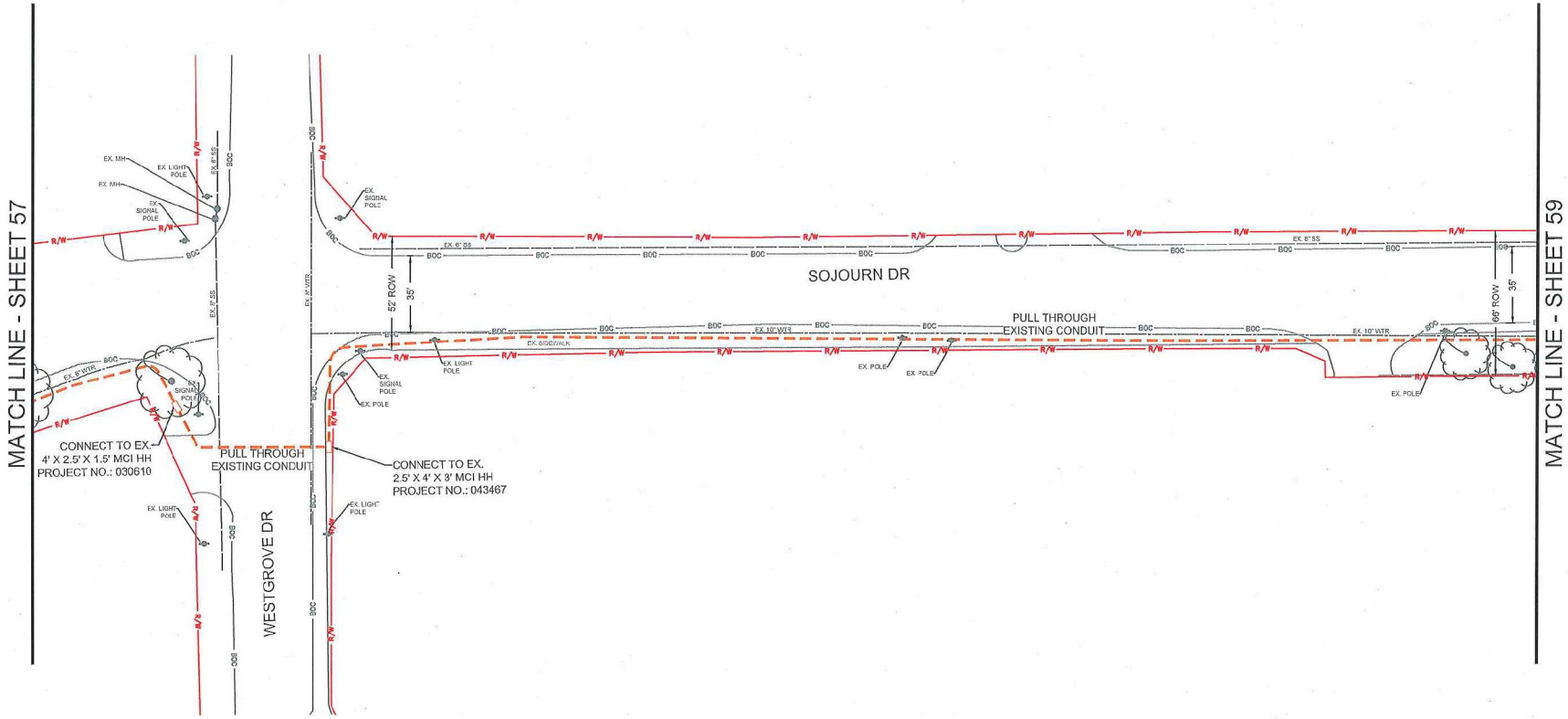
SCALE
HORIZONTAL: 1" = 50'
VERTICAL: N/A

SHEET 57 OF 65

FILE: LEG B_PERMIT SET_ADDISON.DWG



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verizonbusiness

PROJECT: HUB 044 - LEG B

ADDISON, TX

1707AIFX.161, 1707AIFX.186, & 1707AIFX.188

CLARIFICATION NO.	QUANTITY

MCImetro
ACCESS TRANSMISSION SERVICES CORPORATION

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC CABLE ROUTE
VERIZON BUSINESS - LEG B
ADDISON, TX

DATE: 7/30/2018

ENGINEER: COBBFENDLEY

CHECKED BY: PM

DRAWN BY: PN

REVISIONS

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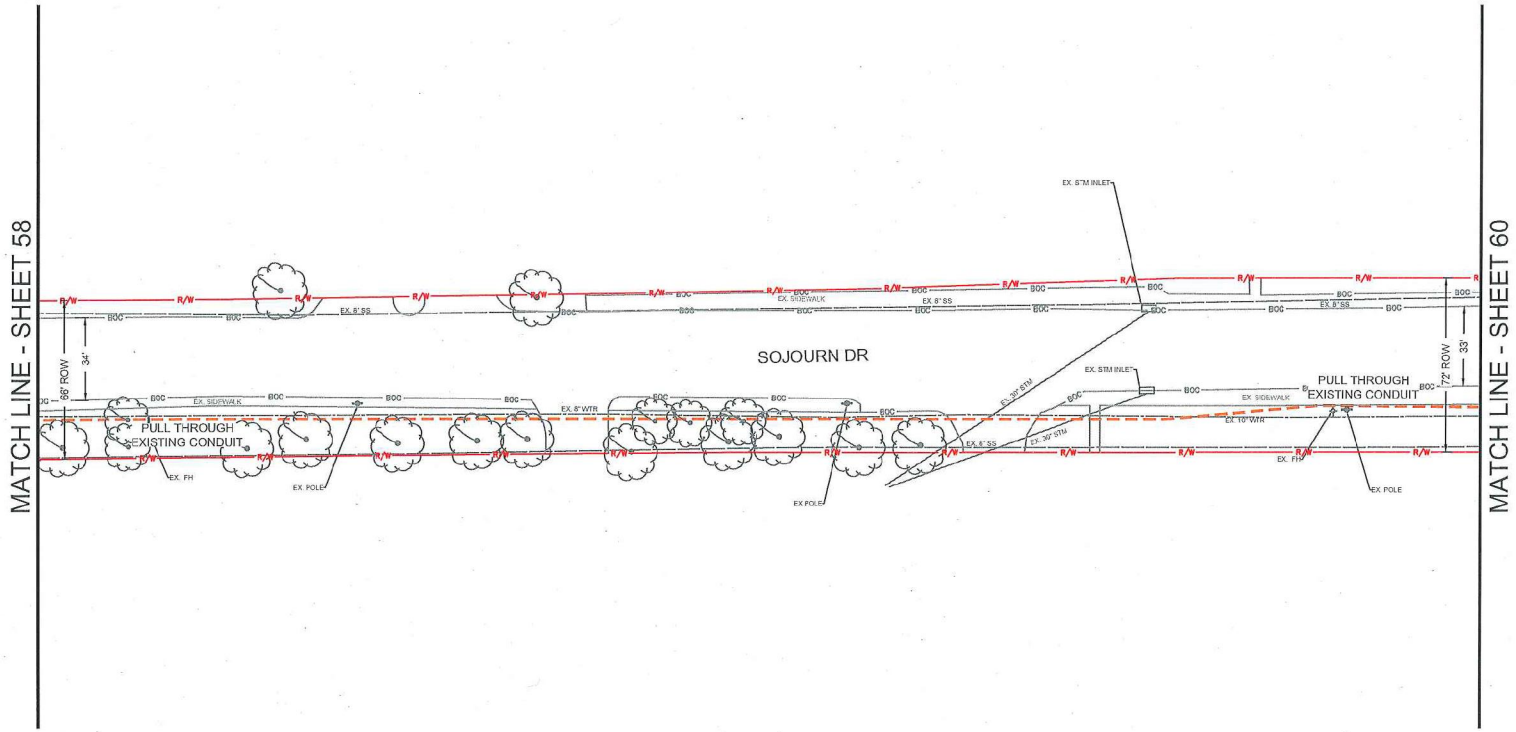
SCALE

HORIZONTAL: 1" = 50'

VERTICAL: N/A

SHEET 58 OF 65

FILE: LEG B_PERMIT SET_ADDISON.DWG



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PROJECT: HUB 044 - LEG B
ADDISON, TX
1707AIFX.161, 1707AIFX.186, & 1707AIFX.188

CLARIFICATION NO.	QUANTITY

MCImetro
ACCESS TRANSMISSION SERVICES CORPORATION

OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
VERIZON BUSINESS - LEG B
ADDISON, TX

DATE: 7/30/2018
ENGINEER: COBBFENDLEY
CHECKED BY: PM
DRAWN BY: PN

REVISIONS

No.	DATE	DESCRIPTION	BY

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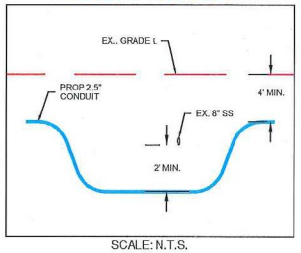
SCALE
HORIZONTAL: 1" = 50'
VERTICAL: N/A

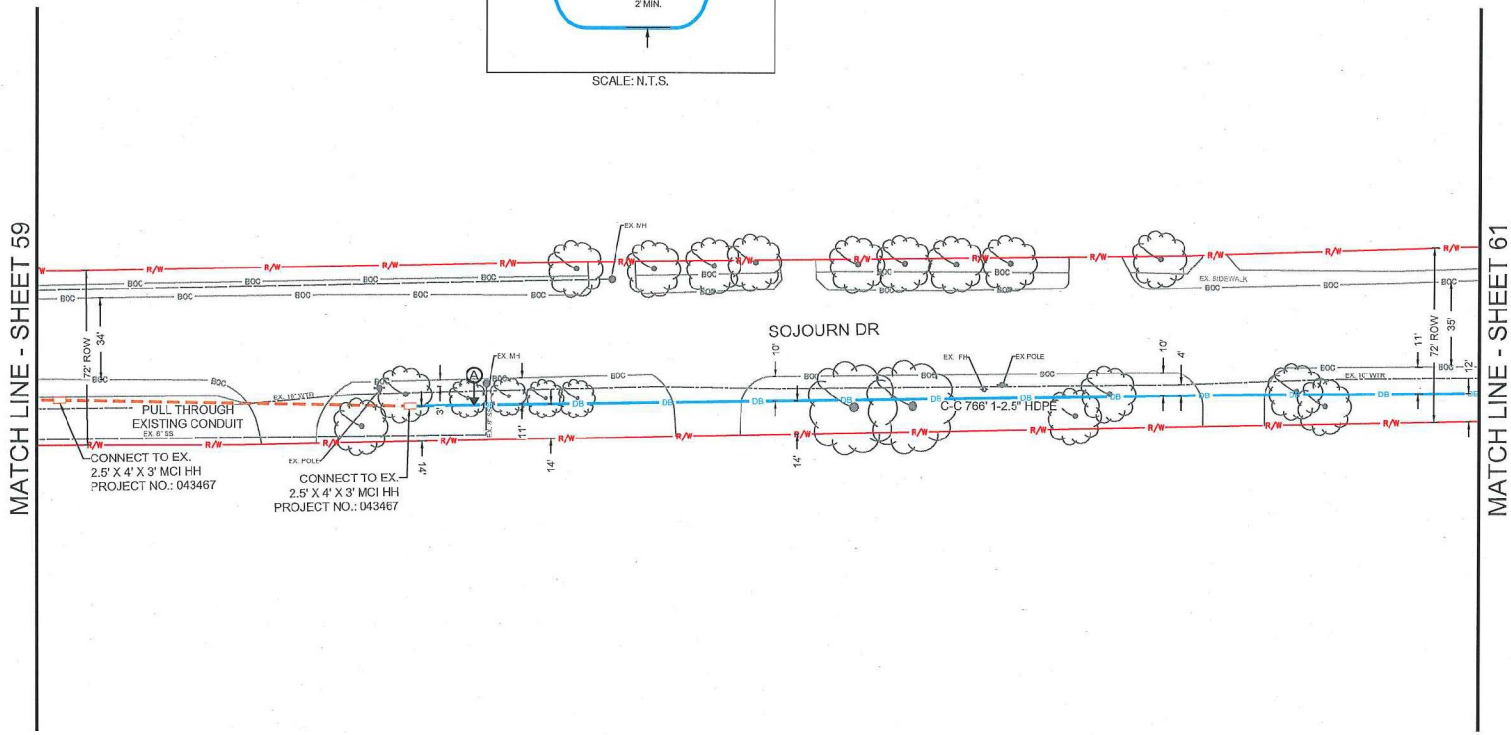
FILE: LEG B_PERMIT SET_ADDISON.DWG

UTILITY CROSSING

Ⓐ



SCALE: N.T.S.



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PROJECT: HUB 044 - LEG B

ADDISON, TX

1707AIFX.161, 1707AIFX.186, & 1707AIFX.188

CLARIFICATION NO.	QUANTITY
1-2.5" HDPE	445'

MCImetro
ACCESS TRANSMISSION SERVICES CORPORATION

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC CABLE ROUTE
VERIZON BUSINESS - LEG B
ADDISON, TX

DATE: 7/30/2018
ENGINEER: COBBFENDLEY
CHECKED BY: PM
DRAWN BY: PN

REVISIONS

No.	DATE	DESCRIPTION	BY
1	7/26/18	ADDISON UTILITIES	HC

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.

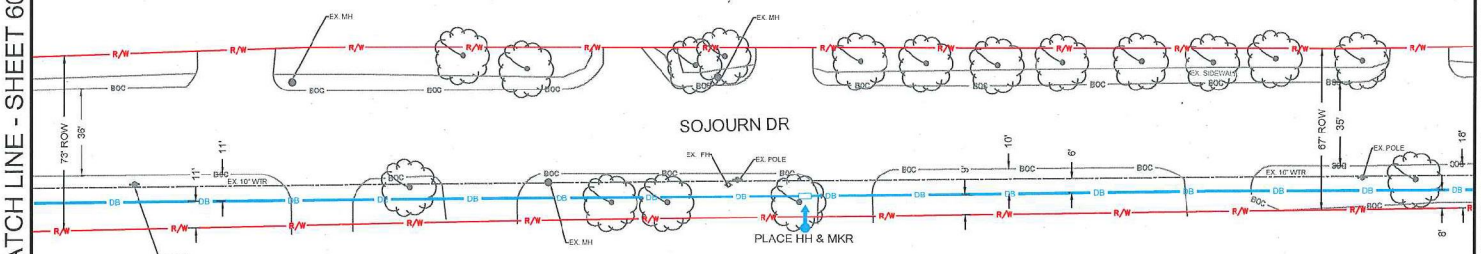
SCALE

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

SHEET 60 OF 65

FILE: LEG B_PERMIT SET_ADDISON.DWG

MATCH LINE - SHEET 60



MATCH LINE - SHEET 62

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

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PROJECT: HUB 044 - LEG B

ADDISON, TX

1707AIFX.161, 1707AIFX.186, & 1707AIFX.188

CLARIFICATION NO.	QUANTITY
1-2.5" HDPE	601'

MCImetro
ACCESS TRANSMISSION SERVICES CORPORATION

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC CABLE ROUTE
VERIZON BUSINESS - LEG B
ADDISON, TX

DATE: 7/30/2018
ENGINEER: COBBFENDLEY
CHECKED BY: PM
DRAWN BY: PN

REVISIONS

No.	DATE	DESCRIPTION	BY
1	7/26/18	ADDISON UTILITIES	HC

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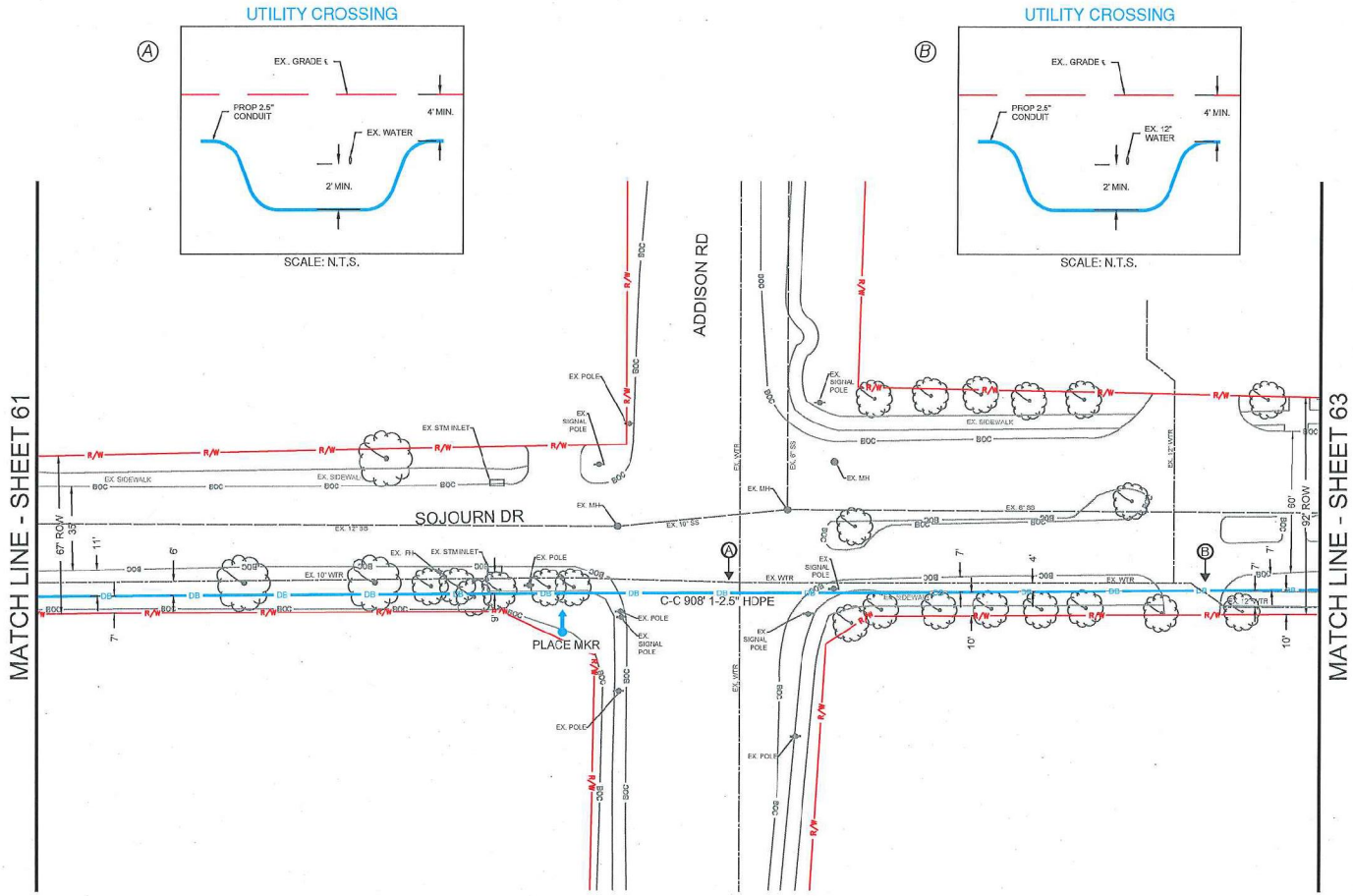
SCALE

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

SHEET 61 OF 65

FILE: LEG B_PERMIT SET_ADDISON.DWG



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PROJECT: HUB 044 - LEG B
ADDISON, TX
1707AIFX.161, 1707AIFX.186, & 1707AIFX.188

CLARIFICATION NO.	QUANTITY
1-2.5" HDPE	544'

MCImetro
ACCESS TRANSMISSION SERVICES CORPORATION

OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
VERIZON BUSINESS - LEG B
ADDISON, TX

DATE: 7/30/2018
ENGINEER: COBBFENDLEY
CHECKED BY: PM
DRAWN BY: PN

REVISIONS

No.	DATE	DESCRIPTION	BY
1	7/26/18	ADDISON UTILITIES	HC

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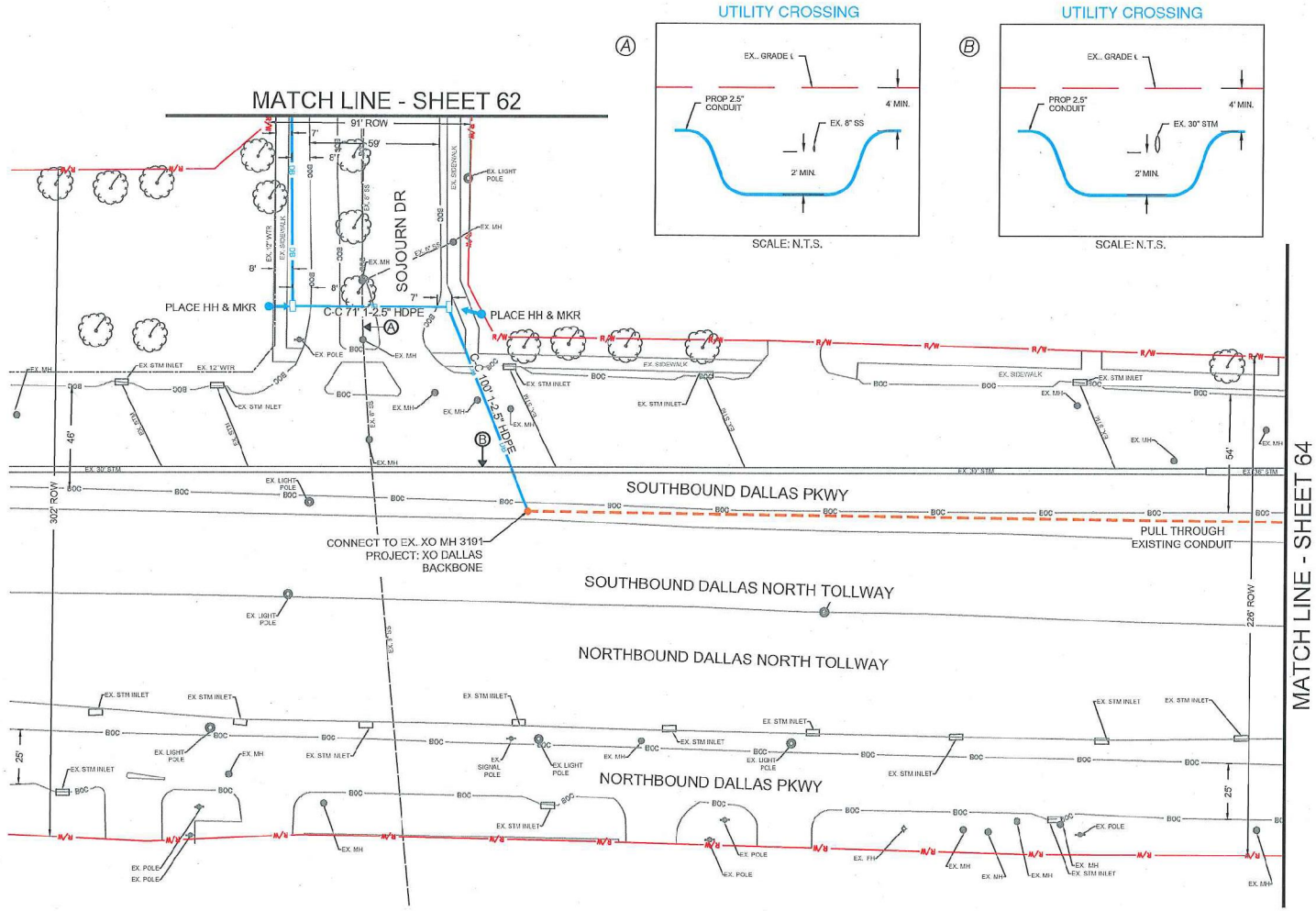
SCALE
HORIZONTAL: 1" = 50'
VERTICAL: N/A
SHEET 62 OF 65
FILE: LEG B_PERMIT SET_ADDISON.DWG



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PROJECT: HUB 044 - LEG B
ADDISON, TX
1707AIFX.161, 1707AIFX.186, & 1707AIFX.188

CLARIFICATION NO.	QUANTITY
1-2.5" HDPE	256'

MCImetro
ACCESS TRANSMISSION SERVICES CORPORATION

OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
VERIZON BUSINESS - LEG B
ADDISON, TX

DATE: 7/30/2018
ENGINEER: COBBFENDLEY
CHECKED BY: PM
DRAWN BY: PN

REVISIONS

No.	DATE	DESCRIPTION	BY
1	7/26/18	ADDISON UTILITIES	HC

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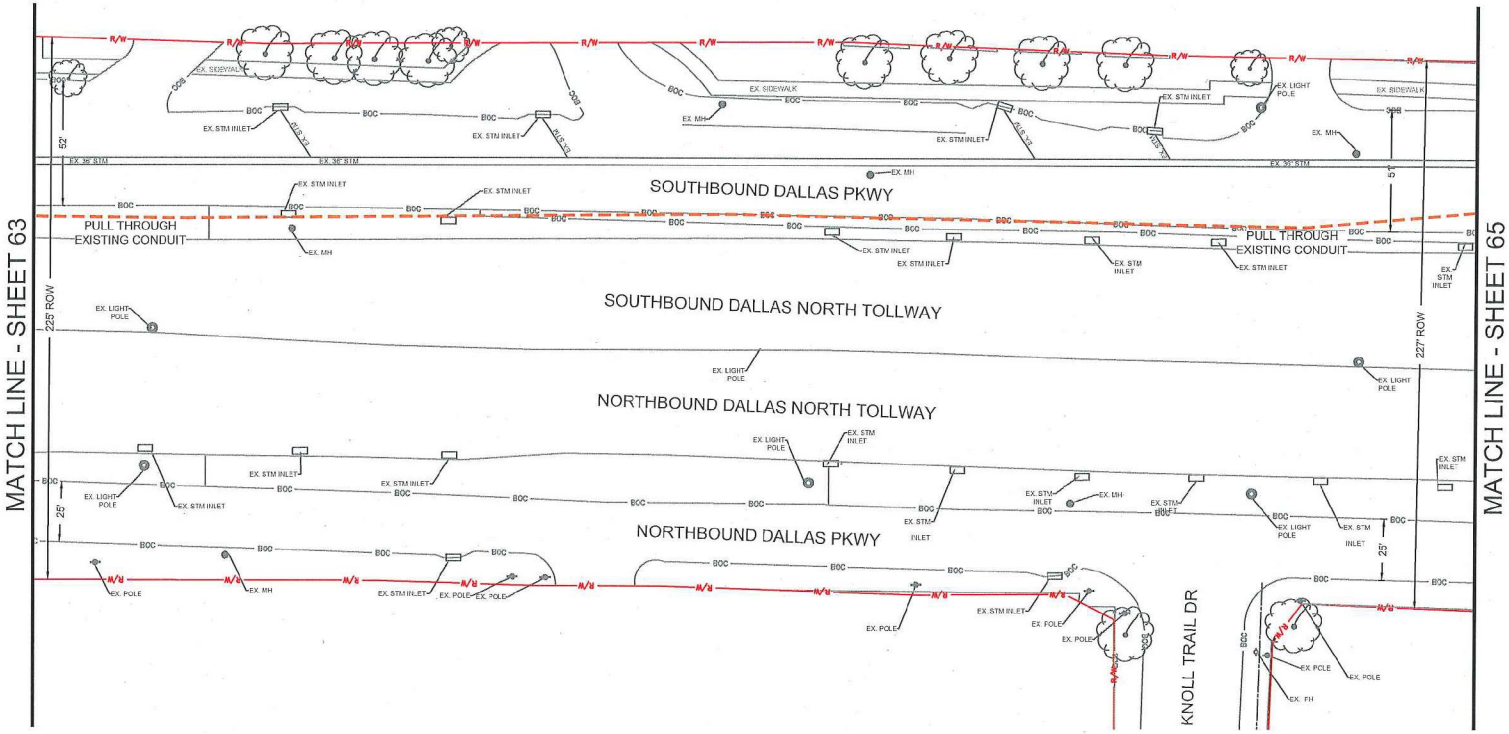
SCALE
HORIZONTAL: 1" = 50'
VERTICAL: N/A
SHEET 63 OF 65
FILE: LEG 3_PERMIT SET_ADDISON.DWG



verizonbusiness

PROJECT: HUB 044 - LEG B

ADDISON, TX

1707AIFX.161, 1707AIFX.186, & 1707AIFX.188

CLARIFICATION NO.	QUANTITY

MCImetro
ACCESS TRANSMISSION SERVICES CORPORATION

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC CABLE ROUTE
VERIZON BUSINESS - LEG B
ADDISON, TX

DATE: 7/30/2018

ENGINEER: COBBFENDLEY

CHECKED BY: PM

DRAWN BY: PN

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SCALE

HORIZONTAL: 1" = 50'

VERTICAL: N/A

SHEET 64 OF 65

FILE: LEG B_PERMIT SET_ADDISON.DWG

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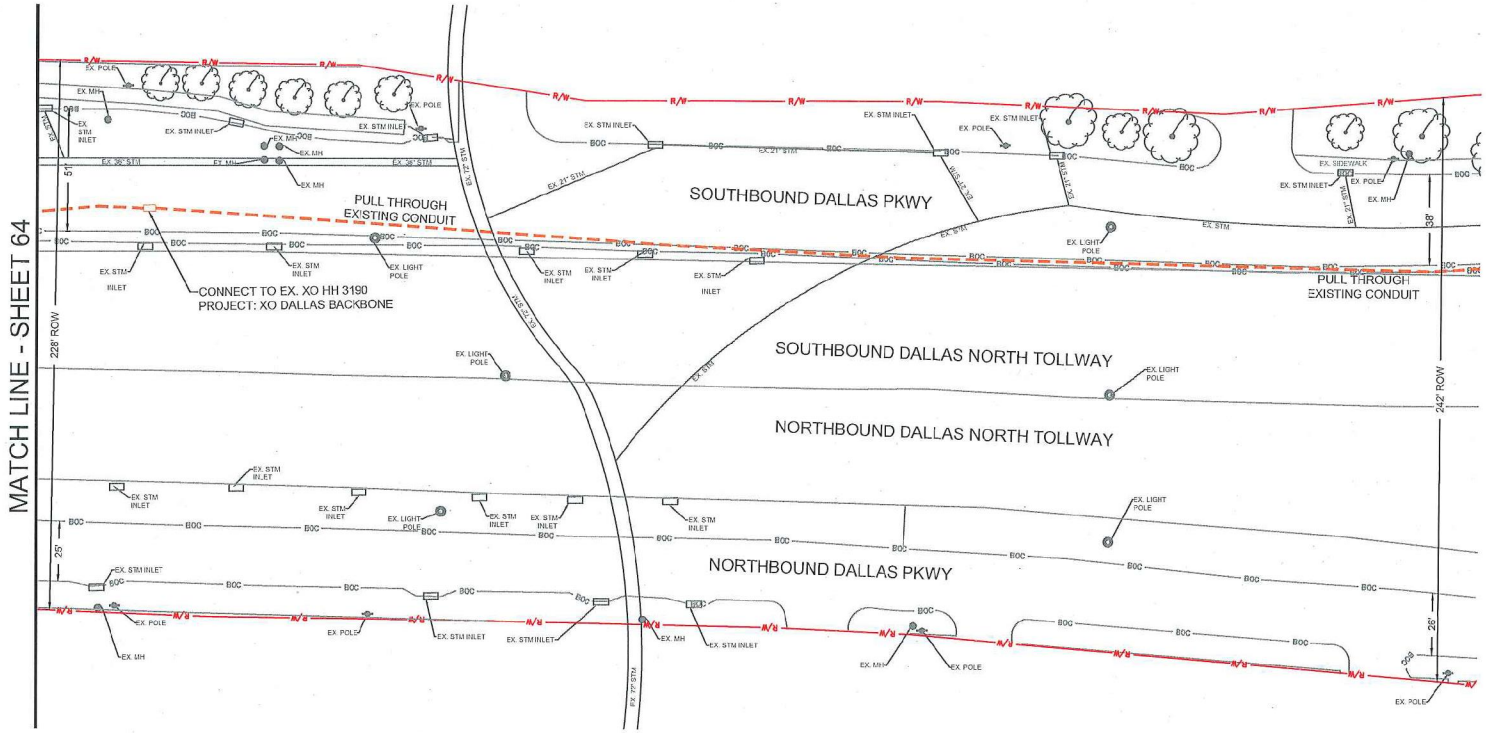

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PROJECT: HUB 044 - LEG B
ADDISON, TX
1707AIFX.161, 1707AIFX.186, & 1707AIFX.188

CLARIFICATION NO.	QUANTITY

MCImetro
ACCESS TRANSMISSION SERVICES CORPORATION

OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
VERIZON BUSINESS - LEG B
ADDISON, TX

DATE: 7/30/2018
ENGINEER: COBBFENDLEY
CHECKED BY: PM
DRAWN BY: PN

REVISIONS

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SCALE
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VERTICAL: N/A
SHEET 65 OF 65
FILE: LEG B_PERMIT SET_ADDISON.DWG