

MCImetro ACCESS TRANSMISSION SERVICES CORP D/B/A VERIZON ACCESS TRANSMISSION OUTSIDE PLANT CONSTRUCTION FIBER OPTIC CABLE ROUTE

MAPLEDALE

SITE CODE: HENNMN
BH03 / ISOTOPE-ALEXANDER / 037MAPLEDALE
MAPLE GROVE, MN

PROJECT STATUS: ISSUED FOR PERMITTING

STATUS DATE: 2/26/18

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PROJECT: 037MAPLEDALE

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MCImetro ACCESS TRANSMISSION SERVICES, LLC			
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DATE: 1/19/18

ENGINEER: NW DRAWN BY: NW

REVISIONS

	REVISIONS	
DATE	DESCRIPTION	INIT
1/19/18	CONST PKG	NV
2/6/18	QC	NV

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SCALE

HORIZONTAL: NTS

VERTICAL: N

SHEET 2 OF 31

FILE: 037MAPLEDALE.DWG

LOCATION MAP

PROPOSED BURIED CABLE

PROPOSED AERIAL CABLE

PROPOSED OVERPULL

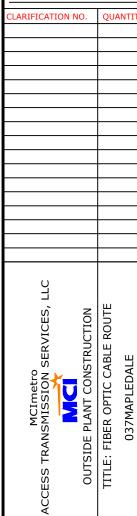




PROJECT: 037MAPLEDALE

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MAPLE GROVE, MN



DATE: 1/19/18

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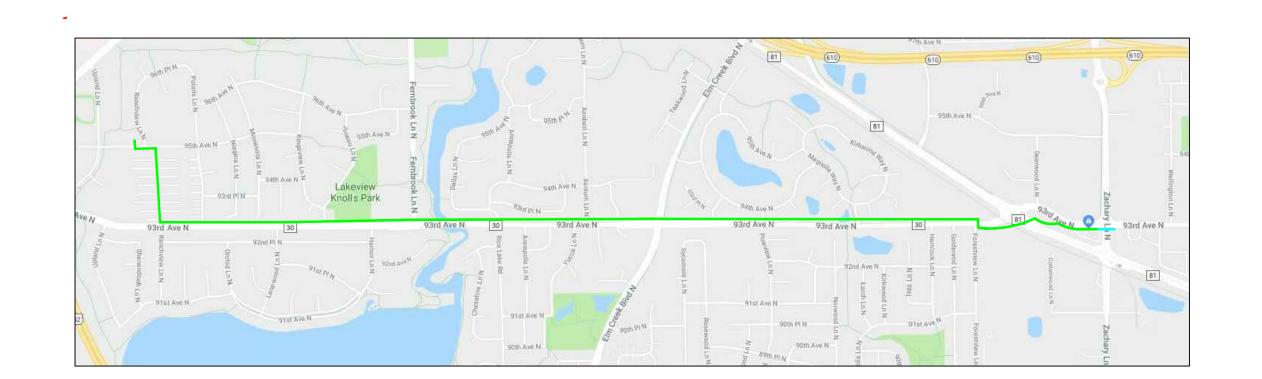
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DATE	DESCRIPTION	INITIAL				
1/19/18	CONST PKG	NW				
2/7/18	QC	NW				

NTS

SCALE ORIZONTAL:

VERTICAL: TO MP

OF 31



CONTACT SHEET

VERIZON BUSINESS

OUTSIDE PLANT ENGINEERING:

PROJECT ENGINEER: ANDY FRETTE 1200 WASHINGTON AVE MINNEAPOLIS, MN 55401

SENIOR PROJECT ENGINEER: DAN SCHMIDT 612-221-7997

1200 WASHINGTON AVE MINNEAPOLIS, MN 55401

OUTSIDE PLANT CONSTRUCTION:

PROJECT SUPERVISOR: 612-963-9474 GREGG JUNGWIRTH

MANAGER:

RIGHT-OF-WAY:

FIELD CONST. SUPERINTENDENT:

AGENT: MANAGER:

CONTRACTS:

OTHERS:

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

SPLICING MANAGER:

TSO MANAGER:

ENGINEERING CONTRACTOR

NAME OF FIRM:

MI-TECH SERVICES, INC.

PROJECT MANAGER: MITCHEL VANDENPLAS

ENG. PROJECT SUPERVISOR:

DOUG HEIDER (651)895-0488

CONSTRUCTION CONTRACTOR

NAME OF FIRM: MASTEC PROJECT COORDINATOR:

DAVIN MIKKONEN (651)605-4091

PROJECT SUPERVISOR:

GREGG JUNGWIRTH (612)963-9474

RAILROADS

612-919-1751

(920)621-8419

BNSF HOLLEY ANTHONY JLL-RAIL PRACTICE GROUP 4200 BUCKINGHAM RD, SUITE 110 FORT WORTH, TX 76155 817-230-2600 HOLLEY.ANTHONY@AM.JLL.COM

UTILITIES

AT&T TRANSMISSION	(612) 344-3327
CENTURYLINK	(855) 742-6062
CENTER POINT ENERGY	(800) 778-9140
COMCAST	(800) 762-0592
CITY OF MINNEAPOLIS WATER	(612) 673-5600
CITY OF MINNEAPOLIS TRAFFIC	(612) 673-5600
CITY OF MINNEAPOLIS SEWER	(612) 673-5600
DISTRICT ENERGY	(651) 297-8955
EXTENET SYSTEMS INC	(800) 778-9140
HENNEPIN COUNTY PUBLIC WORKS	(406) 541-9571
LEVEL 3 COMMUNICATIONS	(877) 366-8344
METRO TRANSIT	(612) 349-7547
METRO WASTE COMMISSION	(651)602-4511
MNDOT	(651) 366-5750
QWEST COMMUNICATIONS	(800) 283-4237
ROGERS COMMUNICATIONS	(877) 459-2690
SPRINT/LONG DISTANCE	(800) 521-0579
ST PAUL REGIONAL WATER	(651) 266-6868
ST PAUL SEWER	(651) 266-9850
ST PAUL TRAFFIC AND LIGHTING	(651) 266-9777
ST PAUL PARKS	(651) 632-5129
WINDSTREAM COMMUNICATIONS	(800) 289-1901
XCEL ENERGY	(800) 848-7558
ZAYO BANDWIDTH	(888) 267-1063
ZAYO ENTERPRISE NETWORKS LLC	(218) 346-5500

CITY GOVERNMENT

CITY OF MAPLE GROVE KELLY MATZKE 763-494-6365 KMATZKE@MAPLEGROVEMN.GOV

COUNTY GOVERNMENT

HENNEPIN COUNTY PUBLIC WORKS MIKE OLMSTED PERMITS OFFICE: 1600 PRAIRIE DR MEDINA, MN 55340 612-596-0339 MICHAEL.OLMSTEAD@HENNEPIN.US

STATE GOVERNMENT

MINNESOTA DEPARTMENT OF NATURAL RESOURCES JEAN ZOCH, REAL ESTATE TECHNICIAN PERMITTING 1200 WARNER ROAD SAINT PAUL, MN 55106 651-259-5843 JEAN.ZOCH@STATE.MN.US

FEDERAL GOVERNMENT



PROJECT: 037MAPLEDALE

BH03 / ISOTOPE-ALEXANDER

MAPLE GROVE, MN

CLARIFICATION NO.	QUANTI	T
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ACCESS TRANSMISSION SERVICES, LLC	TITLE: FIBER OPTIC CABLE ROUTE 037MAPLEDALE	

OATE: 1/19/18 NGINEER: NW

DRAWN BY: NW

REVISIONS DESCRIPTION CONST PKG NW 1/19/18 NW 2/7/18 QC

EXCEPT AS MAY BE OTHERWISE PROVIDED BY CONTRACT

NTS

SCALE

ORIZONTAL:

VERTICAL: TO MP

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GENERAL NOTES

- 1. VERIZON BUSINESS COMPRISES THE FOLLOWING OPERATING ENTITIES:
 - MCI COMMUNICATIONS SERVICES, INC.
 - MCI METRO ACCESS TRANSMISSION SERVICES, LLC
 - MCI METRO ACCESS TRANSMISSION SERVICES
 - OF VIRGINIA, INC.
 - MCI METRO ACCESS TRANSMISSION SERVICES
 - OF MASSACHUSETTS, INC.
 - METROPOLITIAN 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
- LOCATIONS OF SOME OF THE PHYSICAL FEATURES WERE OBTAINED FROM DATED RAILROAD EVALU-ATION 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 OBSERVA-TIONS BUT ARE NOT NECESSARILY EXACT. THERFORE, 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.
- 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.
- 5. EQUIPMENT TYPES SPECIFIED HEREIN (IE: "BACKHOE", SWAMP PLOW" ETC.) ARE SUGGESTIONS ONLY AND ARE NOT INTENDED AS REQUIREMENTS.
- 7. SHORING OF EXCAVATIONS 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.
- 9. ALL 2" ID CONDUIT WILL BE HDPE, OR AS SPECIFIED.
- 10. UNDERGROUND CONDUIT WILL BE PLACED AT 36" MINIMUM COVER UNLESS OTHERWISE SPECIFIED ON THE CONSTRUCTION DRAWINGS.

CLARIFICATION NOTES

1. 2. 3. 4. 5.

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

ADDENDUM NOTES

CLARIFICATION NOTES (CONTINUED)

100	110	JACK AND DRY BORE CONDUIT(S)
200	210	PLACE CONDUIT
21		PLACE HIGH DENSITY POLYETHYLENE (HDPE)
21		ROCK ADDER
21 21		SLURRY BACKFILL ADDER EXPOSE CONDUIT
21		EXPOSE CONDUIT AND RELOCATE
21		EXPOSE CONDUIT AND REPLACE/SUBSTITUTE
21	.8	EXPOSE AND REMOVE CONDUIT
21	.9	EXPOSE AND REMOVE CONDUIT (ABANDONED)
22		CONCRETE ENCASE
22		REMOVE CONCRETE ENCASEMENT
22 24		REMOVE CONCRETE CAP PLACE HANDHOLE
24		REMOVE EXISTING HANDHOLE
24		RELOCATE HANHOLE
		REPLACE/SUBSTITUTE HANDHOLE
24	17	EXCAVATE SPLICE PIT
25		PLACE MANHOLE
25		REMOVE EXISTING MANHOLE RELOCATE PRECAST MANHOLE
25 25		REPLACE/SUBSTITUTE PRECAST MANHOLE
26		CONSTRUCT WALL
27		REMOVE AND RESTORE ASPHALT
28	30	REMOVE AND RESTORE CONCRETE
28	31	REMOVE AND RESTORE SIDEWALK
28	32	REMOVE AND RESTORE CURBING
300	310	ATTACH CONDUIT TO WALL OR STRUCTURE
31	.5	DETACH CONDUIT FROM WALL OR STRUCTURE
32		CORE BORE
33	30	ATTACH PULL/SPLICE BOX TO WALL OR STRUCTURE
400	410	PULL CABLE
	.1	PULL THROUGH DUCT (INNERDUCT)
41 42		REMOVE CABLE FROM CONDUIT REPOSITION ACTIVE CABLE SLACK
72	.0	REPOSITION ACTIVE CABLE SEACK
500	510	DIRECT BURY CABLE
51		EXPOSE DIRECT BURIED CABLE
51 51		EXPOSE DIRECT BURIED CABLE AND RELOCATE REMOVE AND DISPOSE OF CABLE
52		PLACE AERIAL CABLE
52	-	RELOCATE AERIAL CABLE
52	26	DELASH AERIAL CABLE
52	27	RELASH AERIAL CABLE
52		REMOVE AERIAL CABLE
53		PLACE POLE/PUSH BRACE
53	55	REMOVE POLE/PUSH BRACE
600	610	JETTING CONDUIT
62		EMBEDMENT PLOW
63	30	DIRECTIONAL BORE
700	710	PLACE BURIED CABLE MARKERS AND SIGNS/MWCOM
		WATER CROSSING SIGNS
71	.1	PLACE ISOLATOR/PROTECTION SYSTEM AT EXISTING
71	2	HANDHOLES/MANHOLES
71 71		REMOVE BURIED CABLE MARKER POST/HARDWARE REMOVE CONCRETE BURIED CABLE MARKER POST
/1	• •	NE. 10 TE CONCRETE BOILED CADLE PIANNER FOOT

GENERAL NOTES

- 1. CONTRACTOR MUST OBTAIN LOCATES PRIOR TO DISTURBING THE
- 2. CONTRACTOR MUST HAVE A COPY OF THE APPROVED PERMIT FROM THE APPROPRIATE AGENCY ON THE JOBSITE AT ALL TIMES.
- 3.ALL CABLE WILL BE PLACED AT STANDARD MINIMUM DEPTH. (MCI STANDARD IS 48" DEEP UNLESS OTHERWISE DIRECTED BY A MCI REPRESENTATIVE.)
- 4.ANY LANDSCAPING WILL BE REPLACED TO EQUAL OR BETTER THAN THAT WHICH EXISTED PRIOR TO WORK.
- 5.PROJECT SITE WILL BE PROPERLY SECURED PRIOR TO THE END OF EACH DAY.
- $6.\,\mathrm{ALL}$ WORK IS TO BE IN ACCORDANCE WITH ALL AUTHORITIES HAVING JURISDICTION IN THE WORK ZONE.
- 7. CONTRACTORS ARE ADVISED TO CONTACT MCI FOR ANY ADDITIONAL INFORMATION OR CLARIFICATION CONCERNING SCOPE OF WORK OR THE REQUIREMENTS NECESSARY FOR PROJECT COMPLETION.
- 8.CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL DIMENSIONS, QUANTITIES AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION. IF A SIGNIFICANT CHANGE TO THE RUNNING LINE IS NEEDED, PLEASE CONTACT YOUR MCI REPRESENTATIVE REFORE PROCEEDING
- 9.BEFORE CONSTRUCTION BEGINS, CONTRACTOR SHALL TAKE APPROPRIATE PRECAUTIONS TO AVOID ANY POTENTIAL OBSTRUCTIONS PRIOR TO PROCEEDING WITH WORK.
- 10. NO CONSTRUCTION ON PRIVATE PROPERTY WILL COMMENCE UNTIL APPROVAL IS GIVEN BY THE APPROPRIATE MCI EMPLOYEE.
- 11. CONTRACTOR SHALL NOT PROCEED WITH WORK UNTIL THEY HAVE RECEIVED A PURCHASE ORDER AND HAVE BEEN DIRECTED TO DO SO BY AN AUTHORIZED MCI REPRESENTATIVE.
- 12. CONTRACTOR SHALL NOT EXCEED THE PURCHASE ORDER VALUE WITHOUT AUTHORIZATION IN WRITING FROM THE APPROPRIATE MCI REPRESENTATIVE.
- 13. AS-BUILTS WILL BE REQUIRED FOR EACH PROJECT INCLUDING CABLE FOOTAGE SEQUENTIAL'S AT EVERY ACCESS POINT, SLACK LOOP, SPLICE LOCATION, POLE AND TERMINATION POINT. CONTRACTOR SHALL PROVIDE NOTES OF ALL CHANGES IN DEPTHS, RUNNING LINES, MH/HH LOCATIONS, AND ANY OTHER APPLICABLE NOTES TO DEPICT THE WORK THAT TOOK PLACE. NOTE: ALL MAJOR CHANGES NEED TO BE PRE-APPROVED BY AN AUTHORIZED MCI EMPLOYEE PRIOR TO STARTING THE WORK.
- 14. THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS UTILITY QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-02, ENTITLED STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO UTILIZE THE GOPHER STATE ONE CALL EXCAVATION NOTICE SYSTEM REQUIRED MN STATUTE, CHAPTER 216D FOR ALL UNDERGROUND UTILITY LOCATIONS.



PROJECT: 037MAPLEDALE

BH03 / ISOTOPE-ALEXANDER

MAPLE GROVE, MN

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	MCImetro SS TRANSMISSION SERVICES, LLC		DUTSIDE PLANT CONSTRUCTION	ITLE: FIBER OPTIC CABLE ROUTE	037MAPLEDALE

DATE: 1/19/18 ENGINEER: NW

DRAWN BY: NW

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	REVISIONS				
DATE	DESCRIPTION	INITIA			
1/19/18	CONST PKG	NW			
2/7/18	QC	NW			

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SCALE IORIZONTAL:

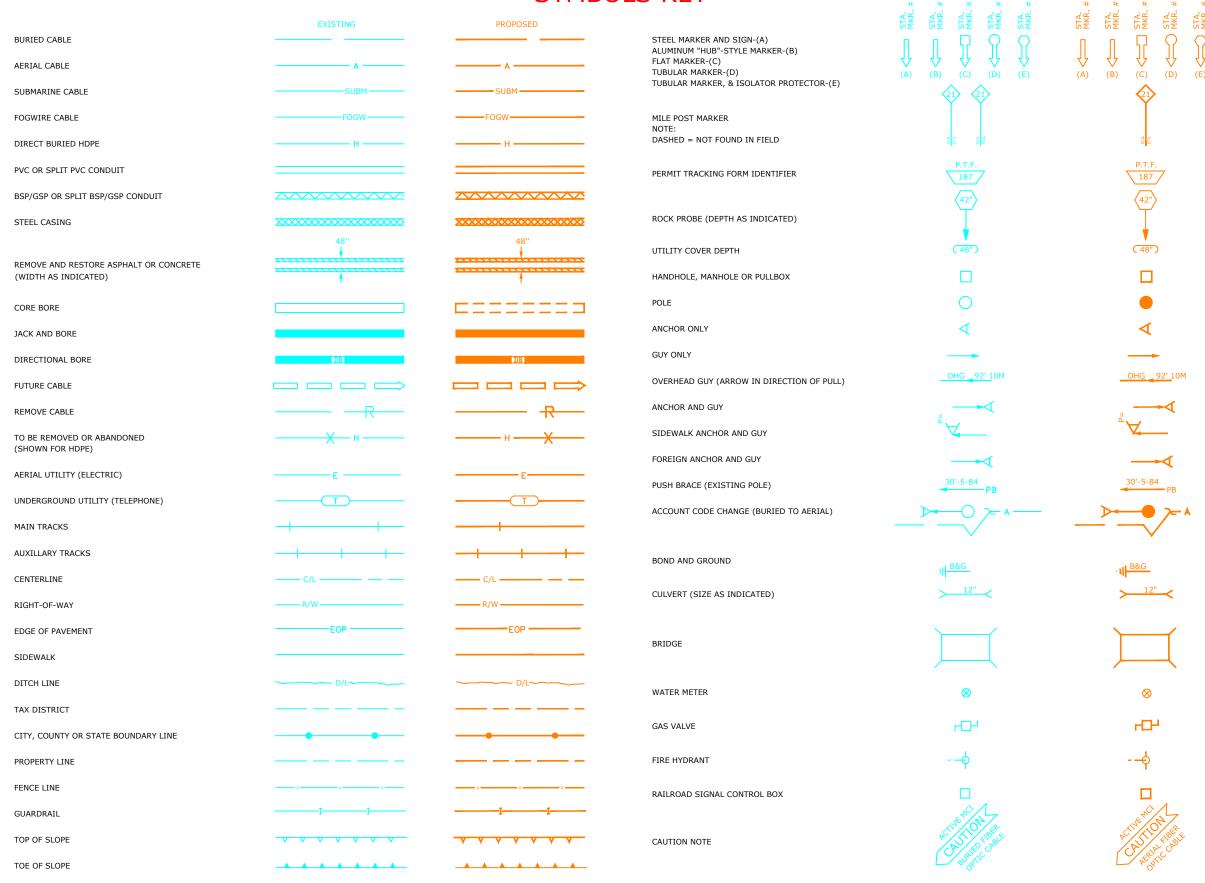
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SYMBOLS KEY



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PROJECT: 037MAPLEDALE

BH03 / ISOTOPE-ALEXANDER

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MAPLE GROVE, I	MN
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ACCESS TRANSMISSION SERVICES, LLC MCImetro ACCESS TRANSMISSION OUTSIDE PLANT CONSTRUCTION	TITLE: FIBER OPTIC CABLE ROUTE 037MAPLEDALE
DATE: 1/10/19	

DATE: 1/19/18 NGINEER: NW

RAWN BY: NW

REVISIONS

DESCRIPTION CONST PKG

1/19/18 NW 2/7/18 NW

SCALE HORIZONTAL:

NTS

VERTICAL:

TO MP SHEET 6 OF 31

ILE: 037MAPLEDALE.DWG

CLARIFICATION SUMMARY SHEET PROJECT SPECIFIC

PROJECT CLARIFICATION SUMMARY					
DESCRIPTION	QUANTITY	UNITS	CLARIFICATION NUMBER	CLARIFICATION NO. AND ALPHA	
C-100: NEW UNDERGROUND - BORE/TRENCH/PLOW - 1-2" HDPE - SOFTSCAPE	14051	LF	100	C100	
C-110: NEW UNDERGROUND - BORE/TRENCH/PLOW - 1-2" HDPE - HARDSCAPE	1561	LF	110	C110	
PULL 216F SM FIBER OPTIC CABLE IN EXISTING DUCT	316	LF	200	C200	
MISC-1 - ADDER - (1) 2" DUCT	1,834	LF	100	C100	
C-500: CABLE PREP/SPLICING/TESTING - LOOSE TUBE	96	EA	500	C500	

PERMITS REQUIRED						
PERMIT SHEET NUMBER FOOTAGE DATE APPROVE						
CITY OF MAPLE GROVE	29-31	1585'				
HENNEPIN COUNTY	8-29	14,403'				
BNSF RAILROAD	10	194'				
MINNESOTA DNR	22	165'				

BOM / MAKE READY COST ESTIMATE PROJECT SPECIFIC

Hub Name	S	ITE Hub Name	E-300 Footage	E-350 Footage	Existing VZB Owned Fiber	E-355 Footage	E-400 Footage	E-500	E-700	E-800	E-1000	C-100 Footage	C-110 Footage	C-120 Footage	C-200 Footage	C-300 Footage	C-400 Cost Estimate	C-500	C-510	MISC-1
Alexander	то	Mapledale	15,612'	316'	0'	0'	0'	0'	0'	\$ -	0'	14,051'	1,561'	0'	316'	0'	\$0.00	96	0	1,834
Hand holes 24"x36"x24"	Hand Holes 30"x60"x30"	Manholes 4'x4'x4'	2"HDPE SDR 11 5%	Ground Rods	Locate Test Station	Marker Posts	Storage Loops Footage	Splice Case 600D	Splice Case 450D	864 Fiber 3%	576 Fiber 3%	432 Fiber 3%	288 Fiber 3%	216 Fiber 3%	144 Fiber 3%	96 Fiber 3%	72 Fiber 3%	48 Fiber 3%	24 Fiber 3%	
0	15	0	18,318	1	1	14	2,150'	1	0	0'	0'	0'	0'	18,054'	0'	0'	567'	0'	0'	



PROJECT: 037MAPLEDALE

BH03 / ISOTOPE-ALEXANDER

MAPLE GROVE, MN

CLARIFICATION NO.	QUANTITY

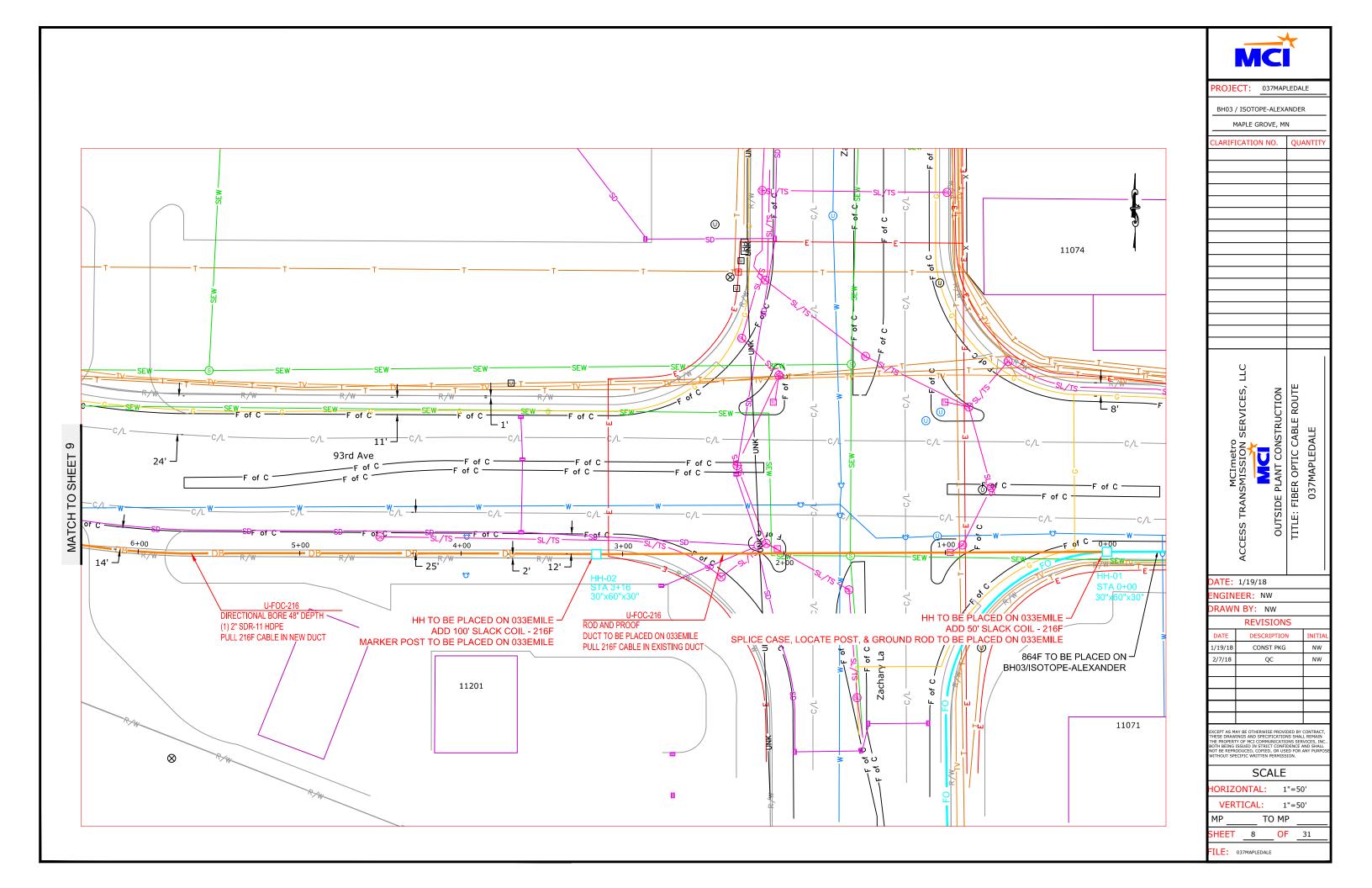


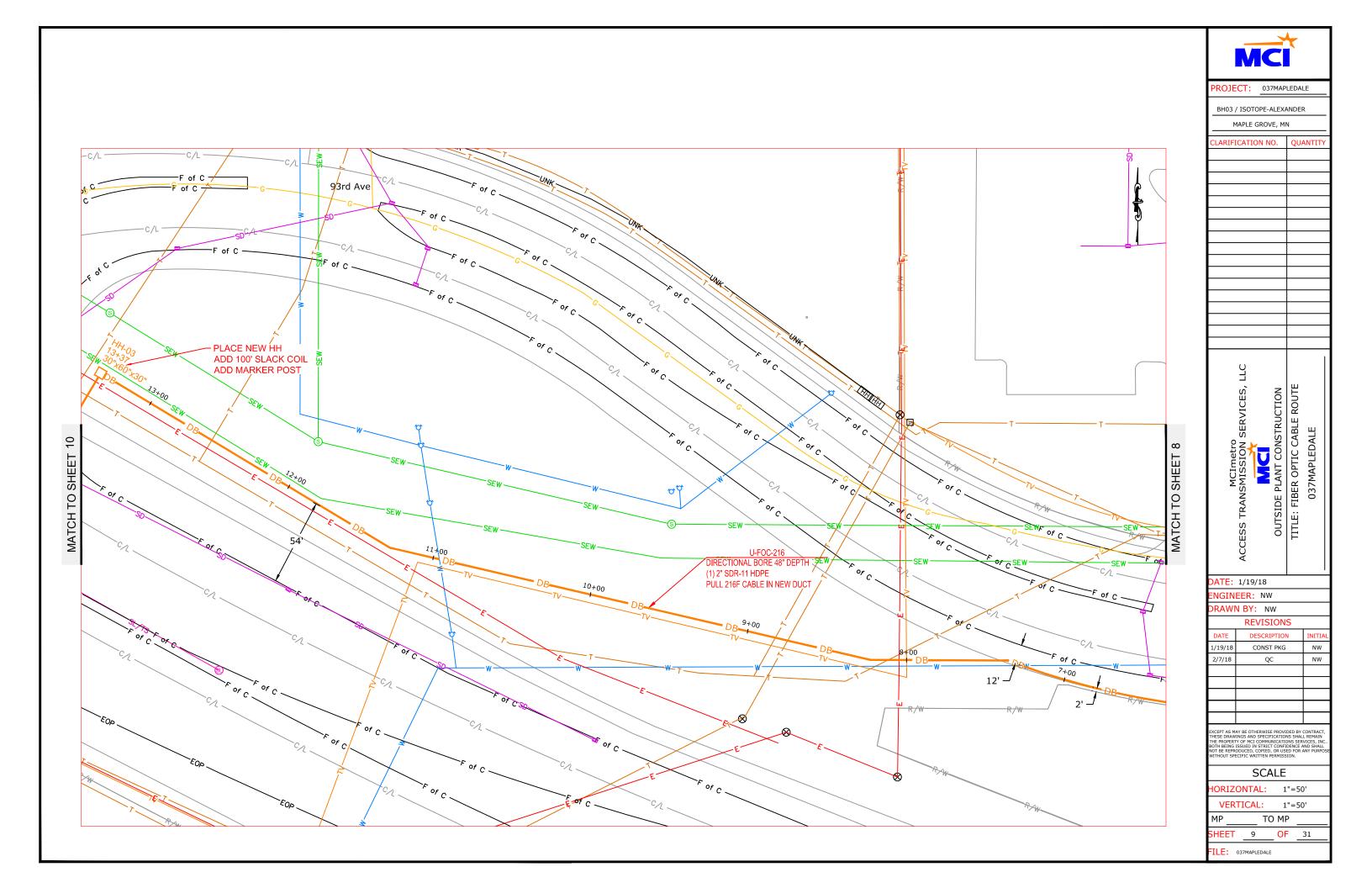
DATE: 1/19/18
ENGINEER: NW
DRAWN BY: NW
REVISIONS

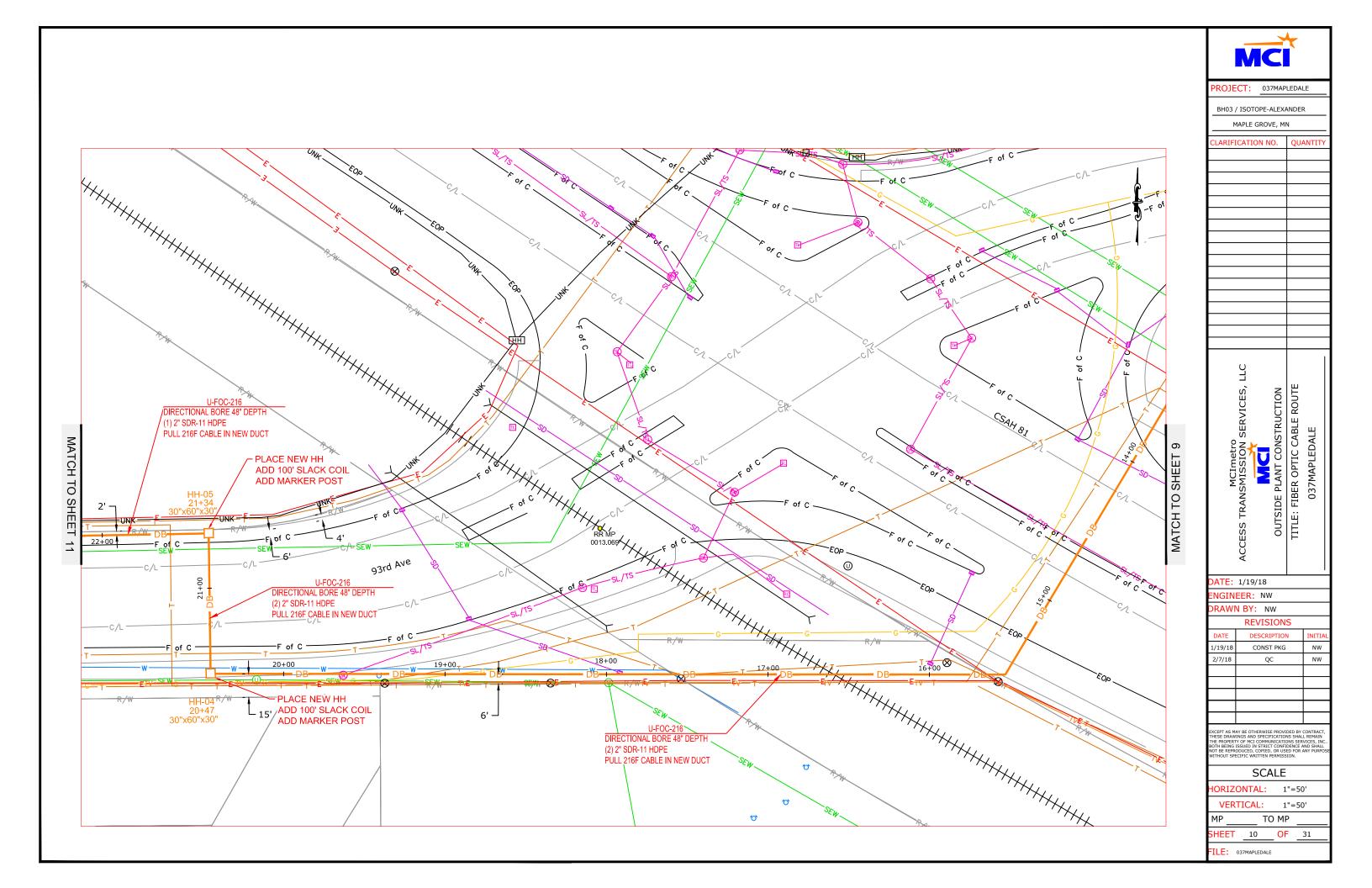
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2/7/18	QC	NW					
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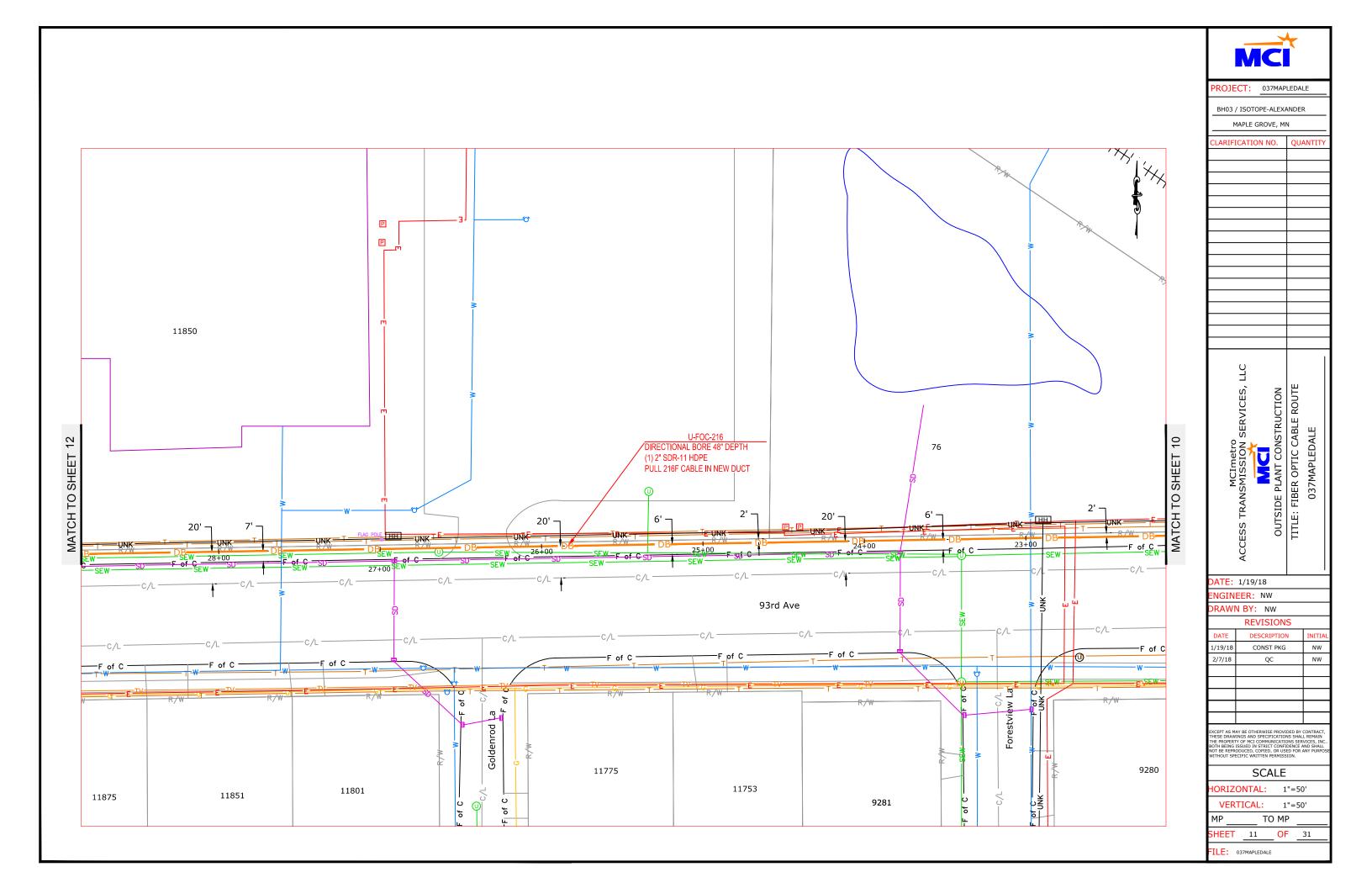
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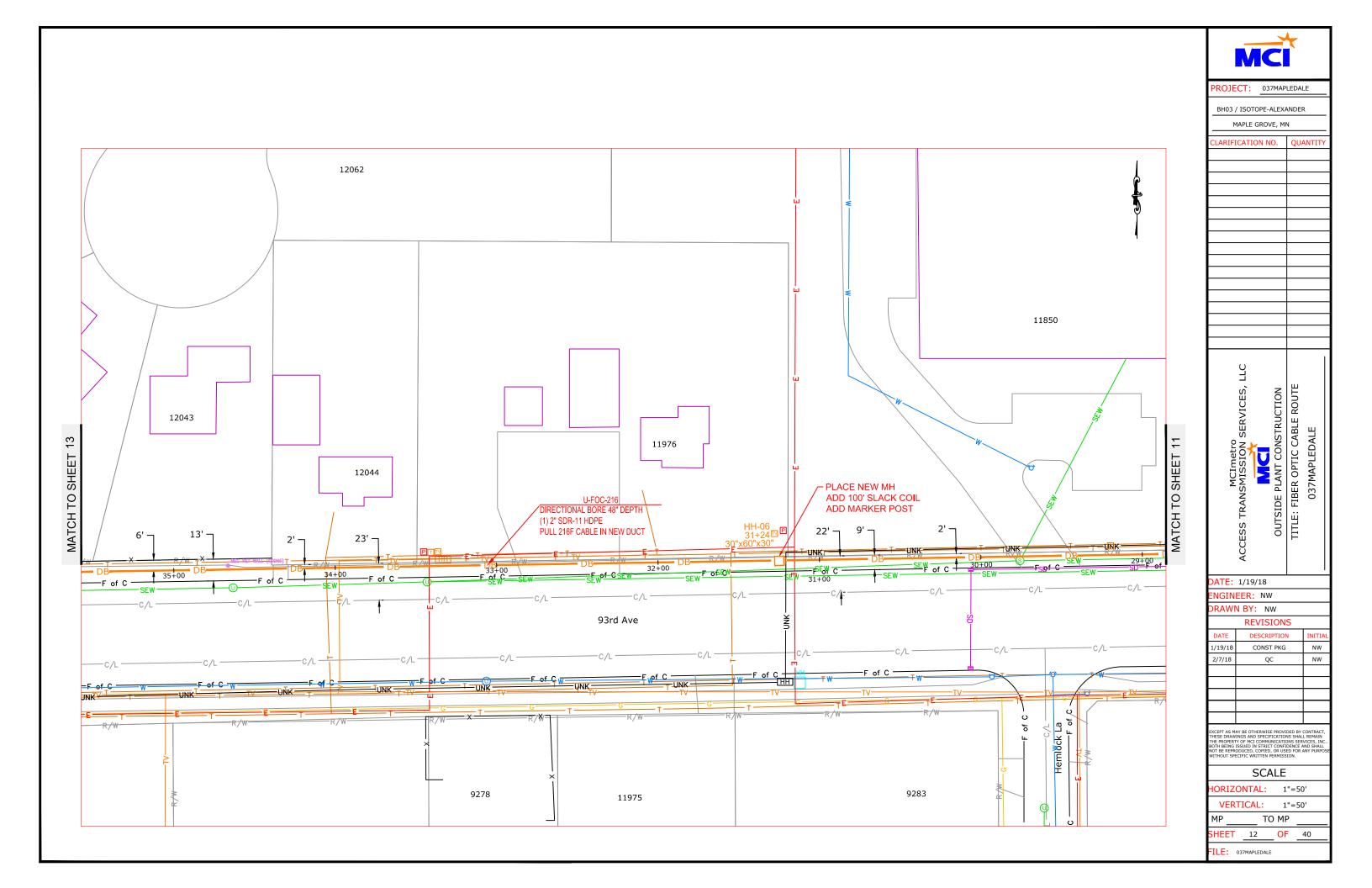
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SHEET 7 OF 31

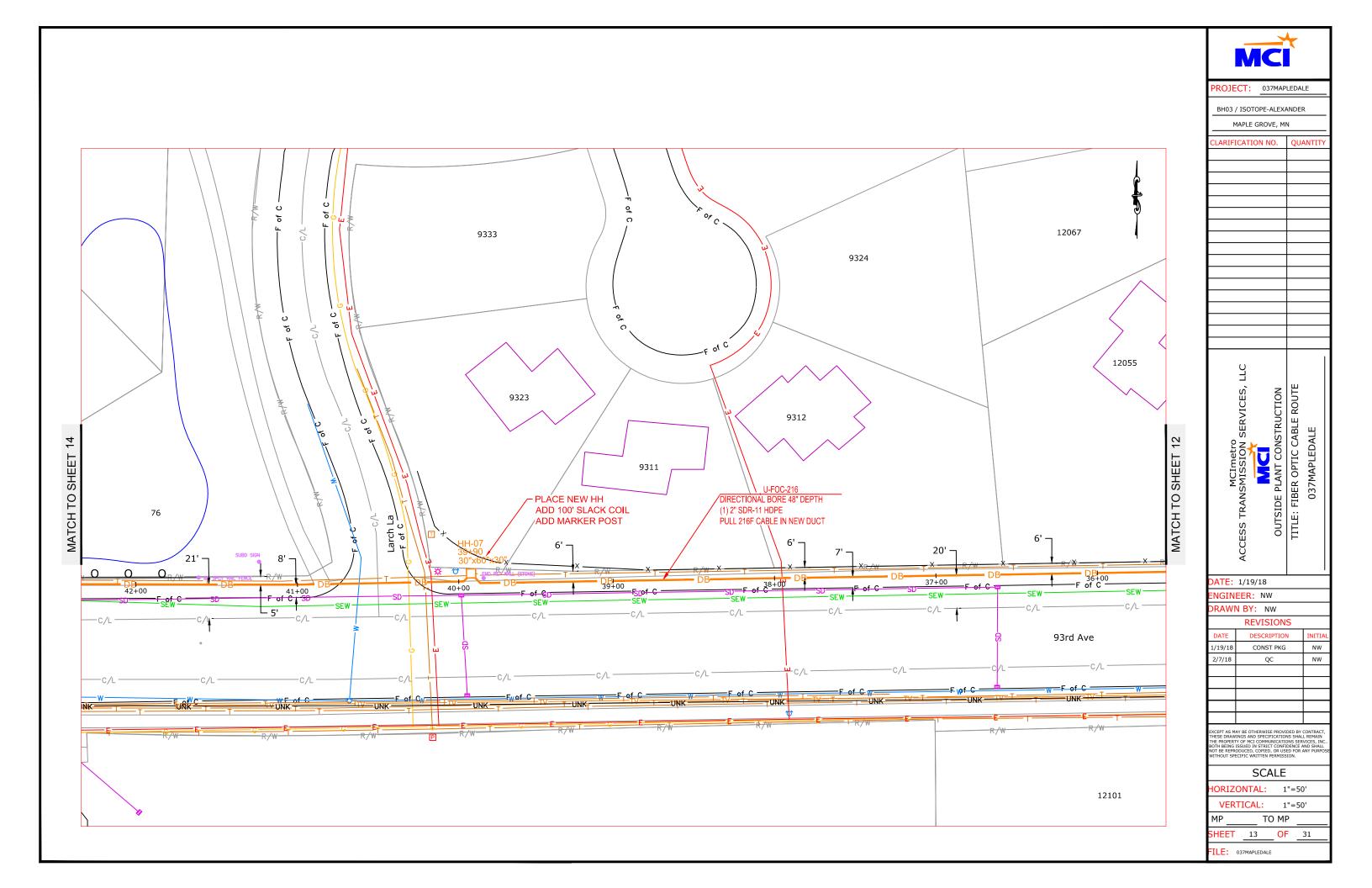


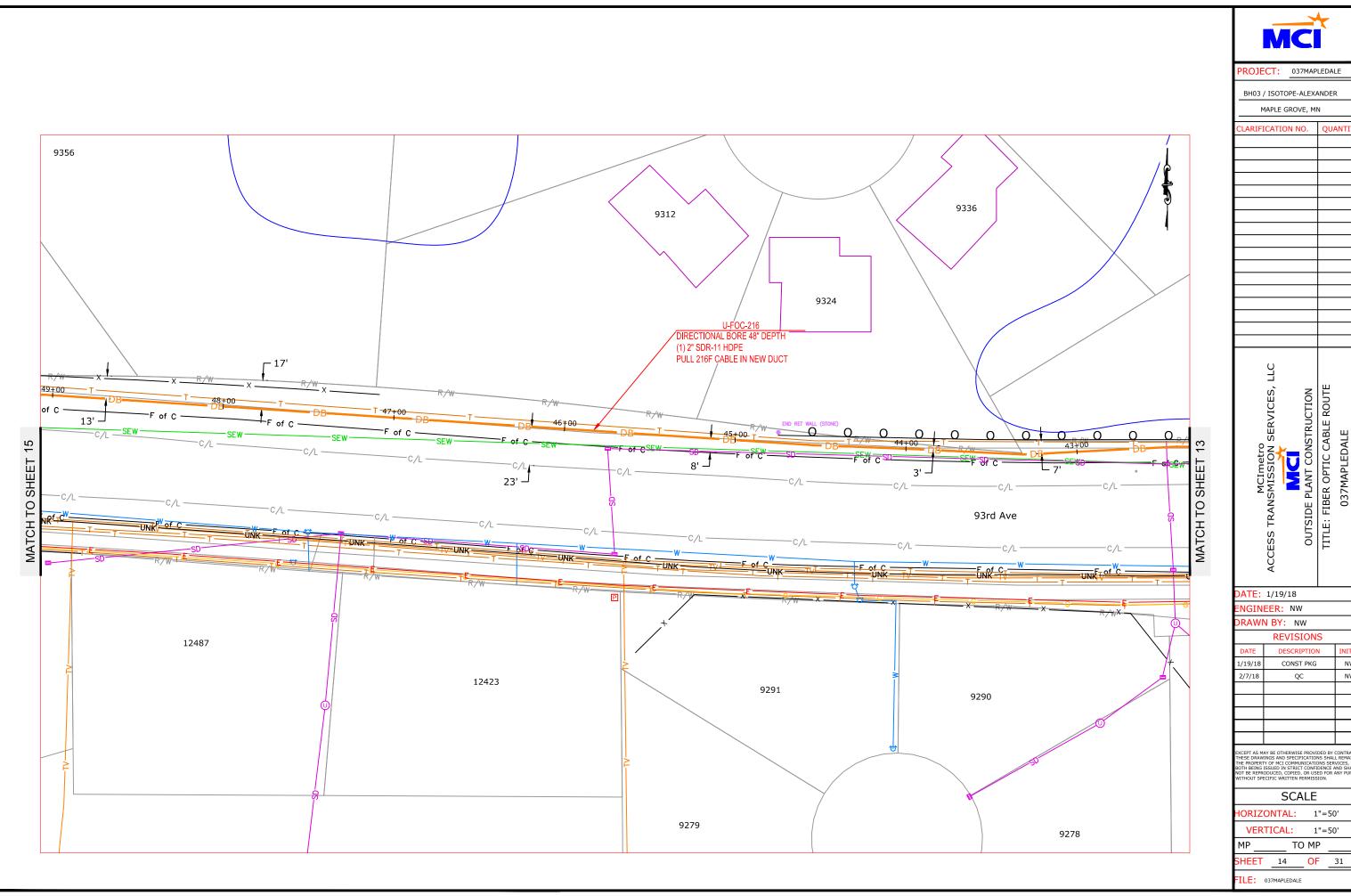




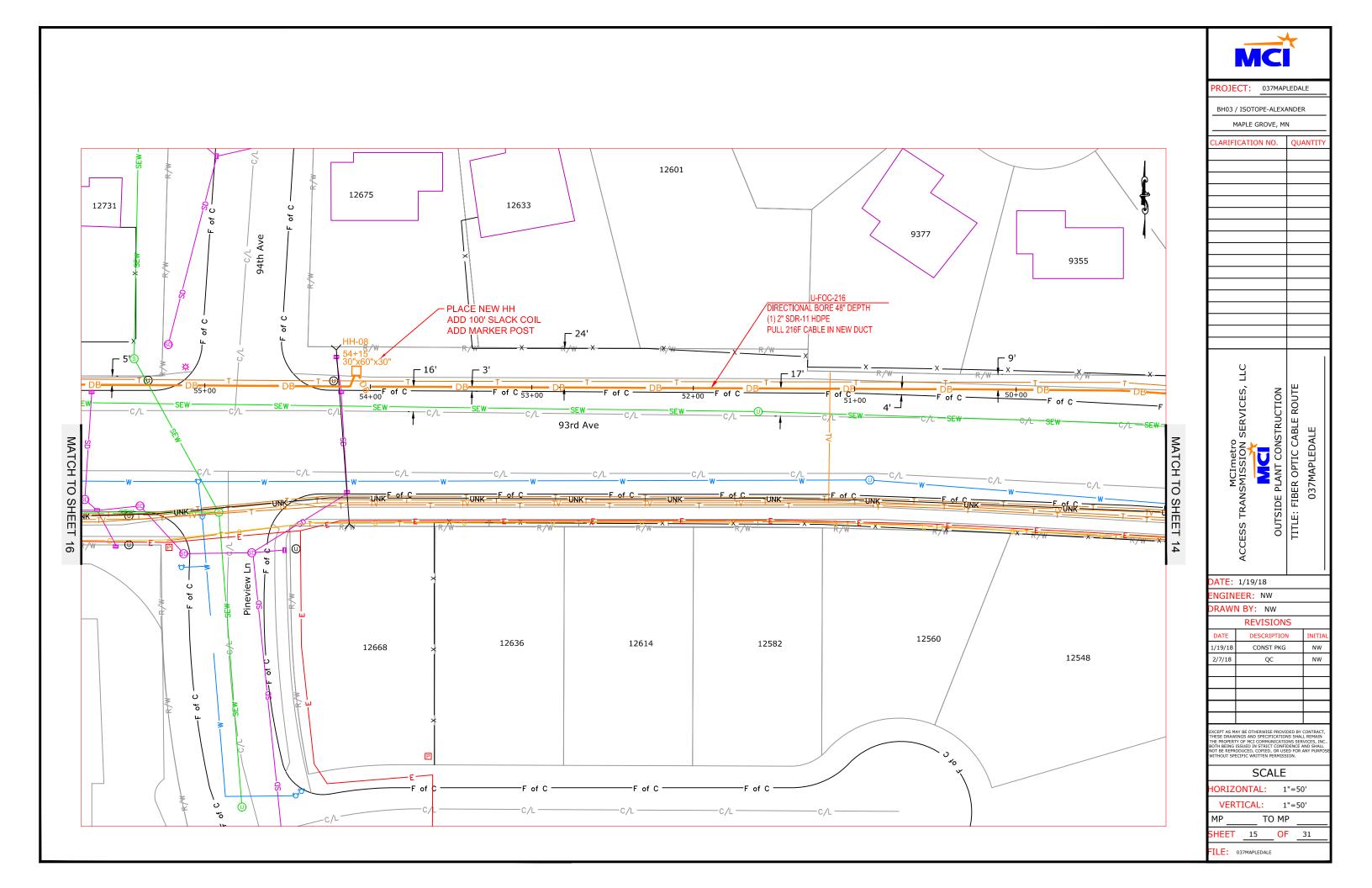


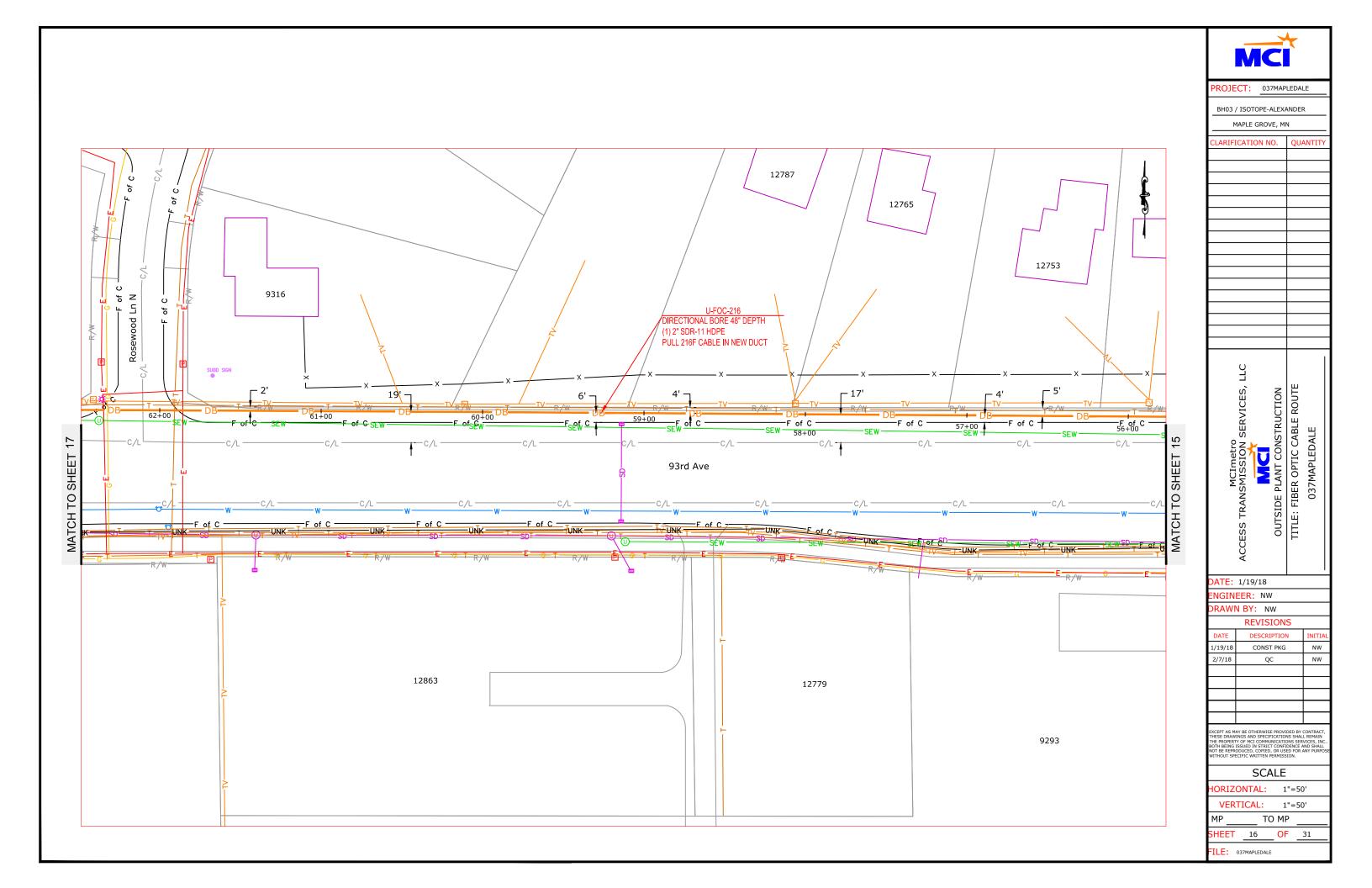


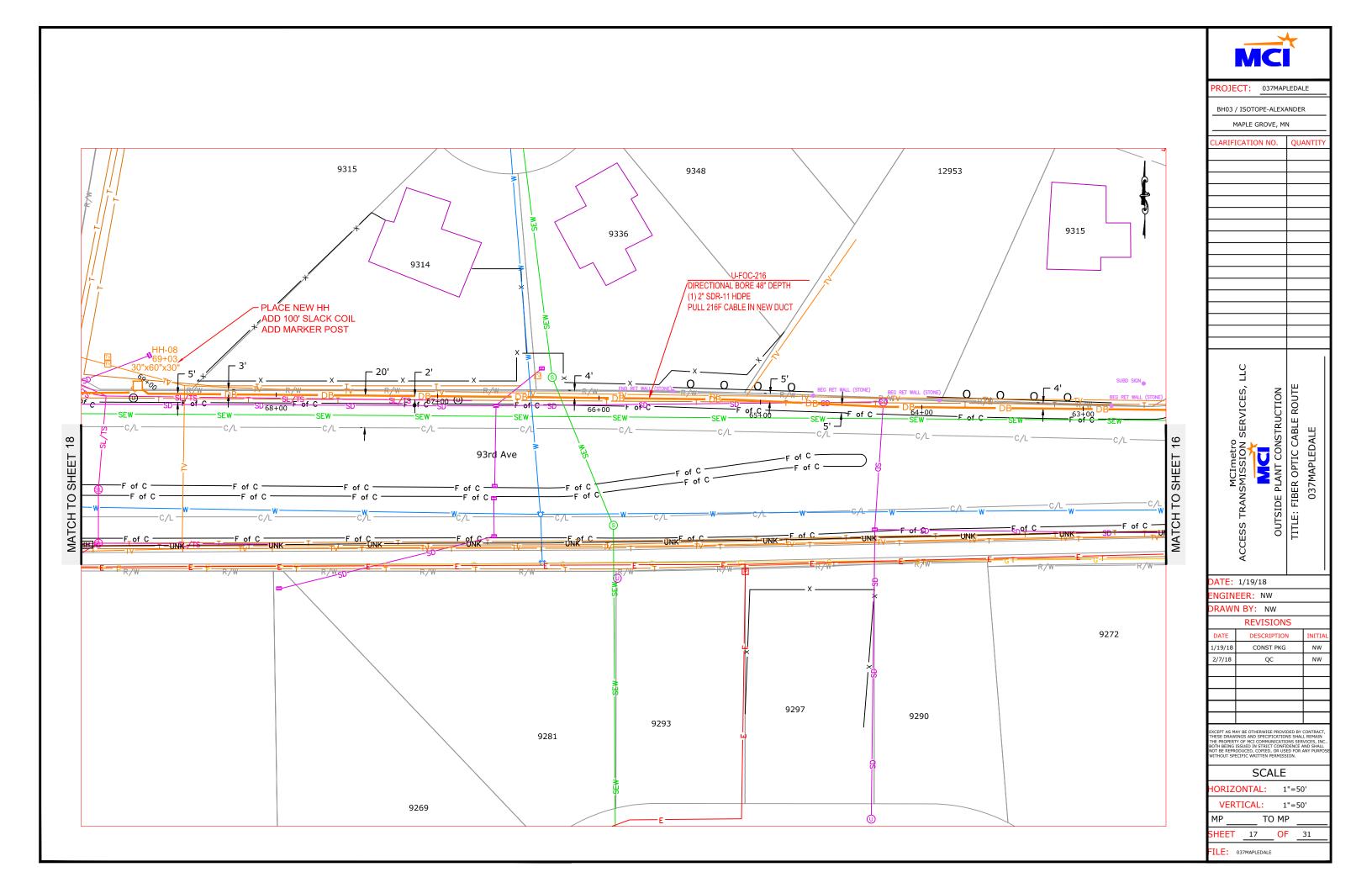


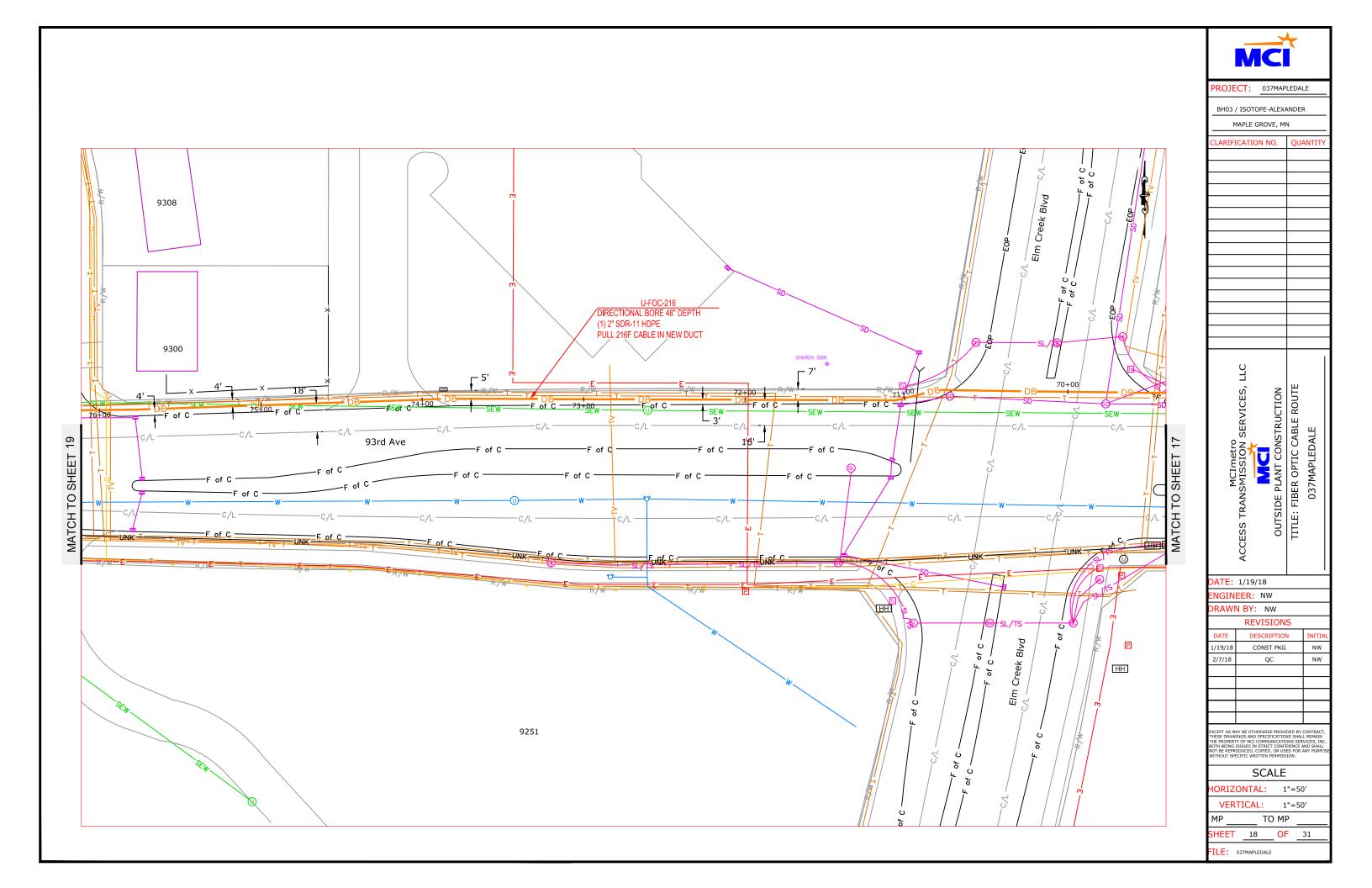


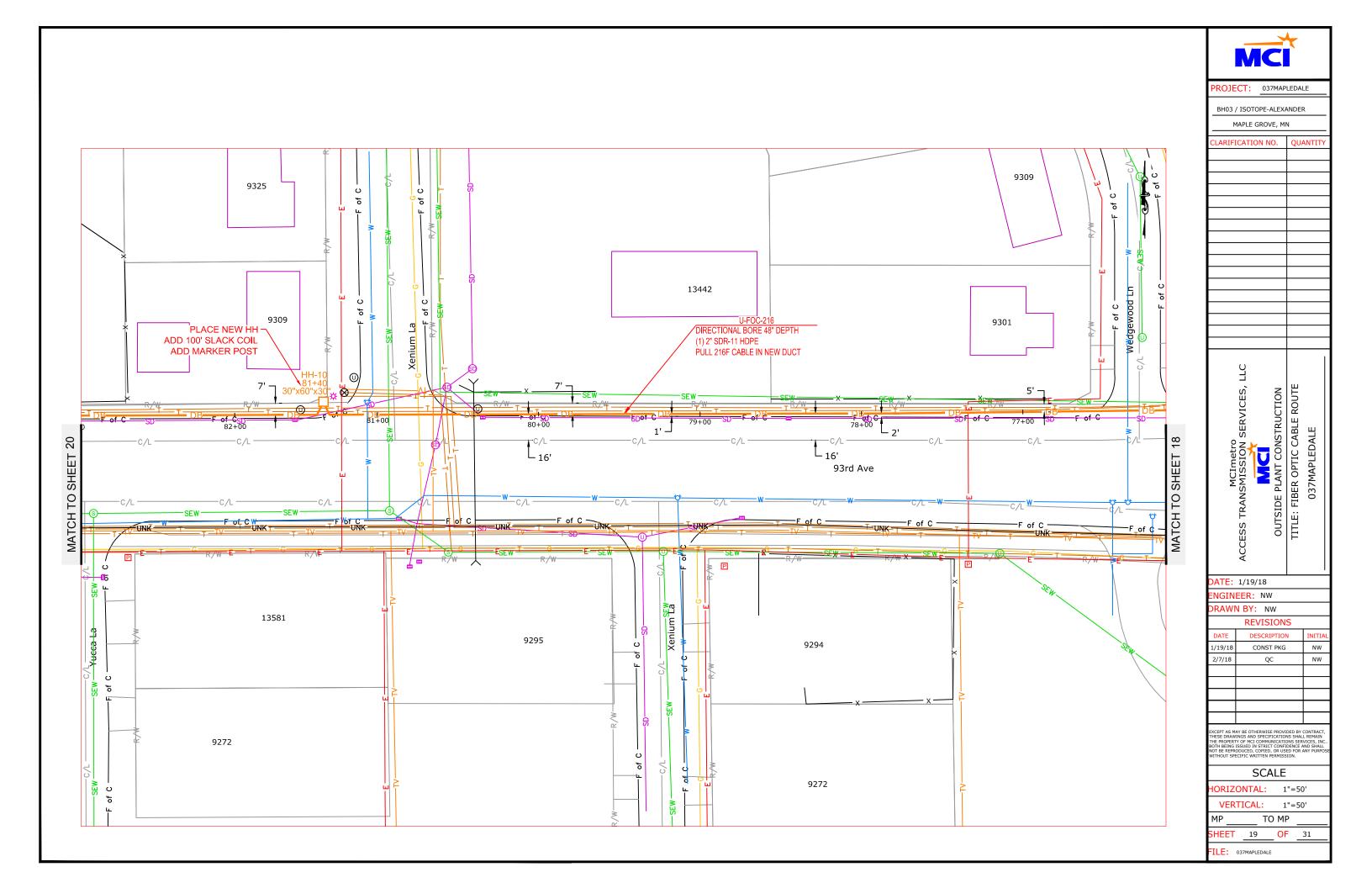
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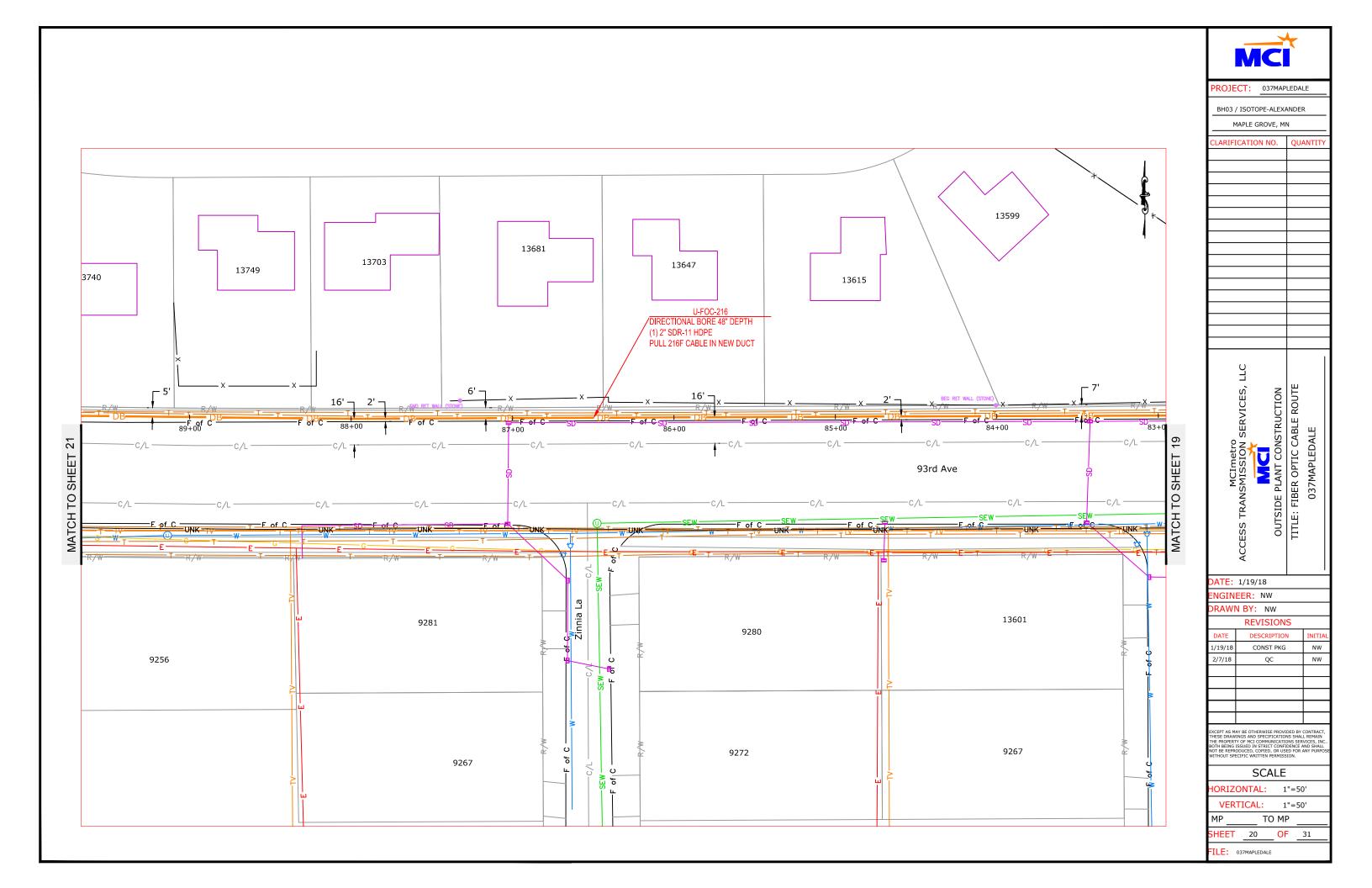


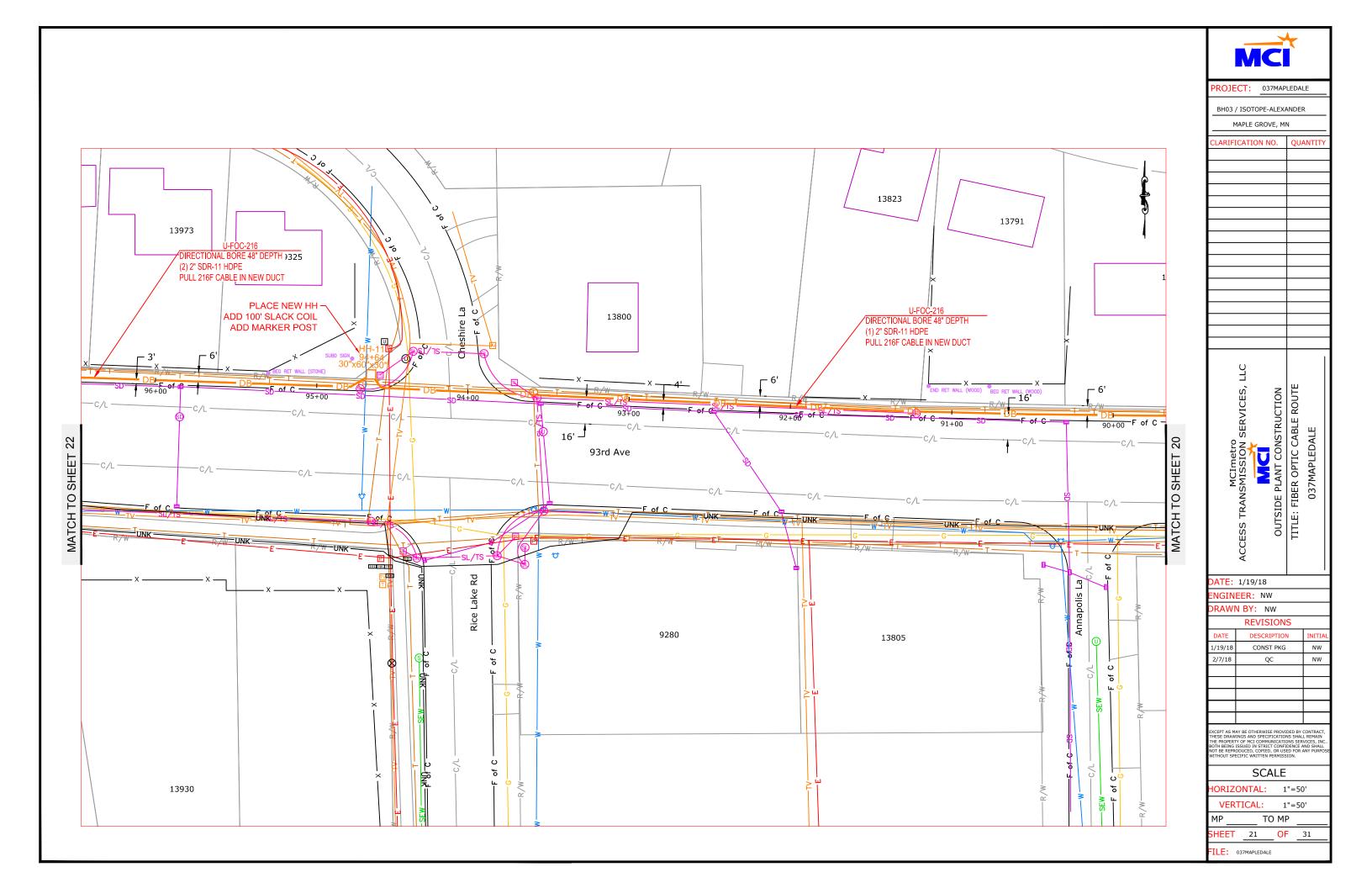


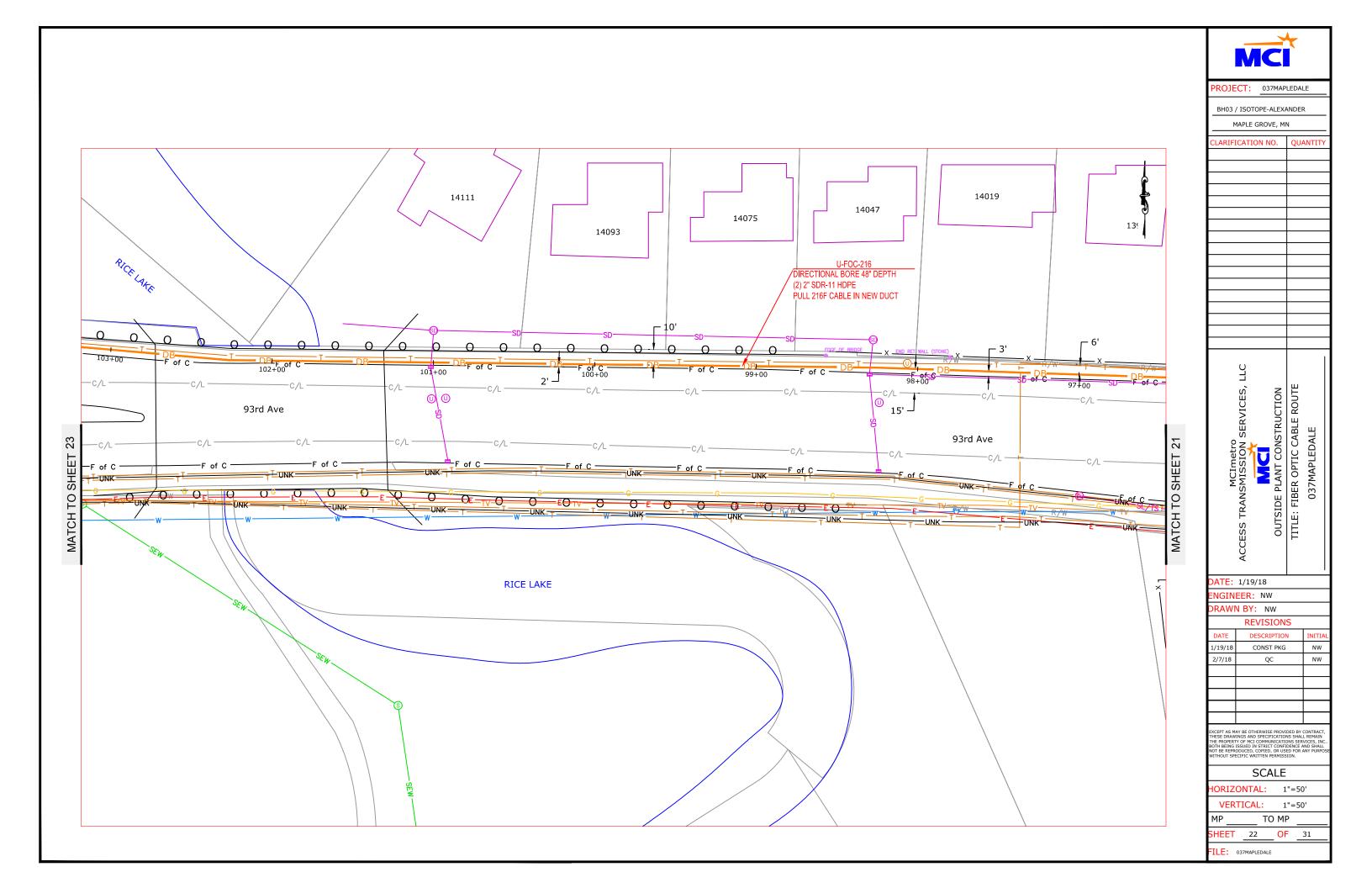


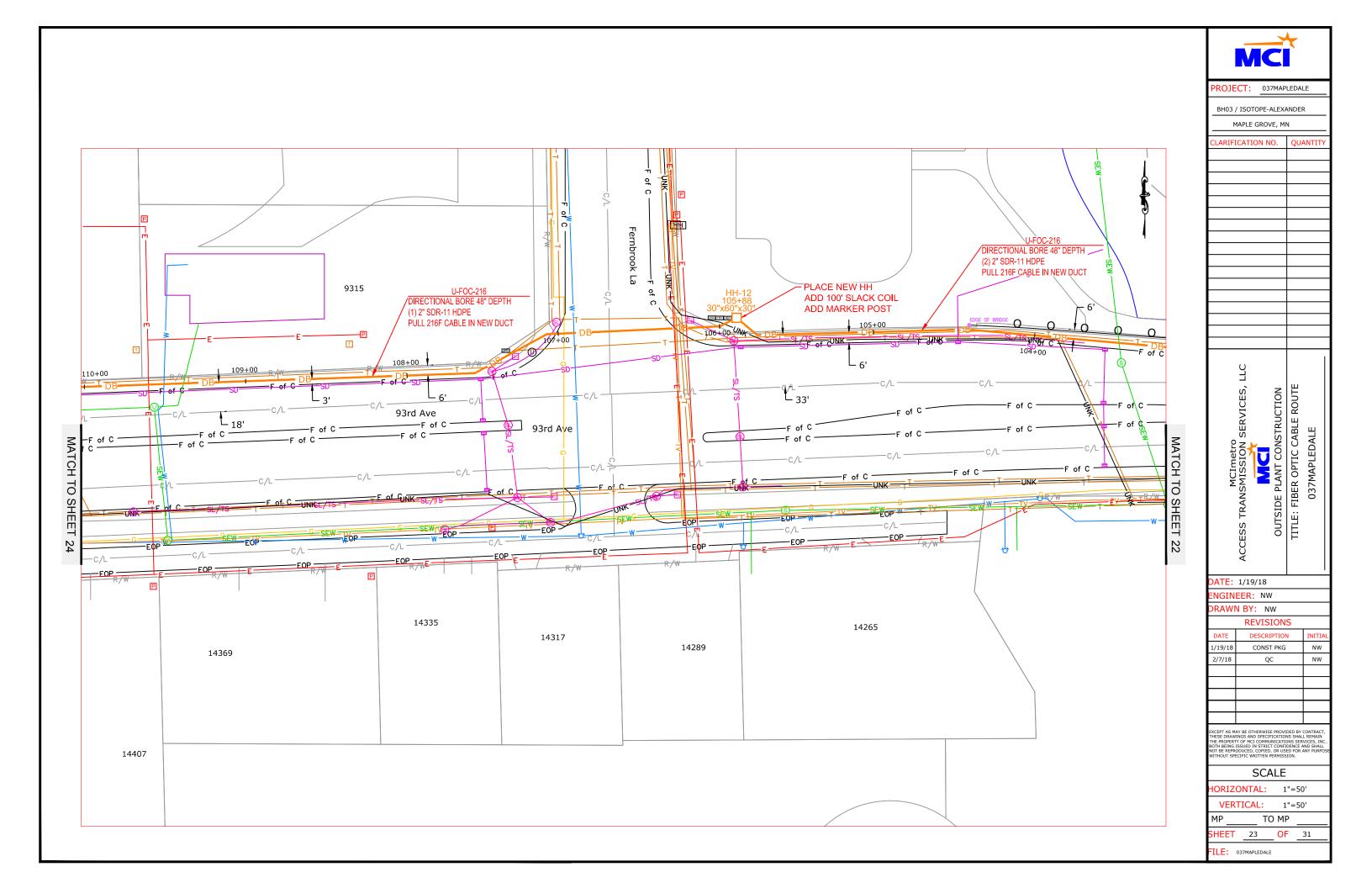


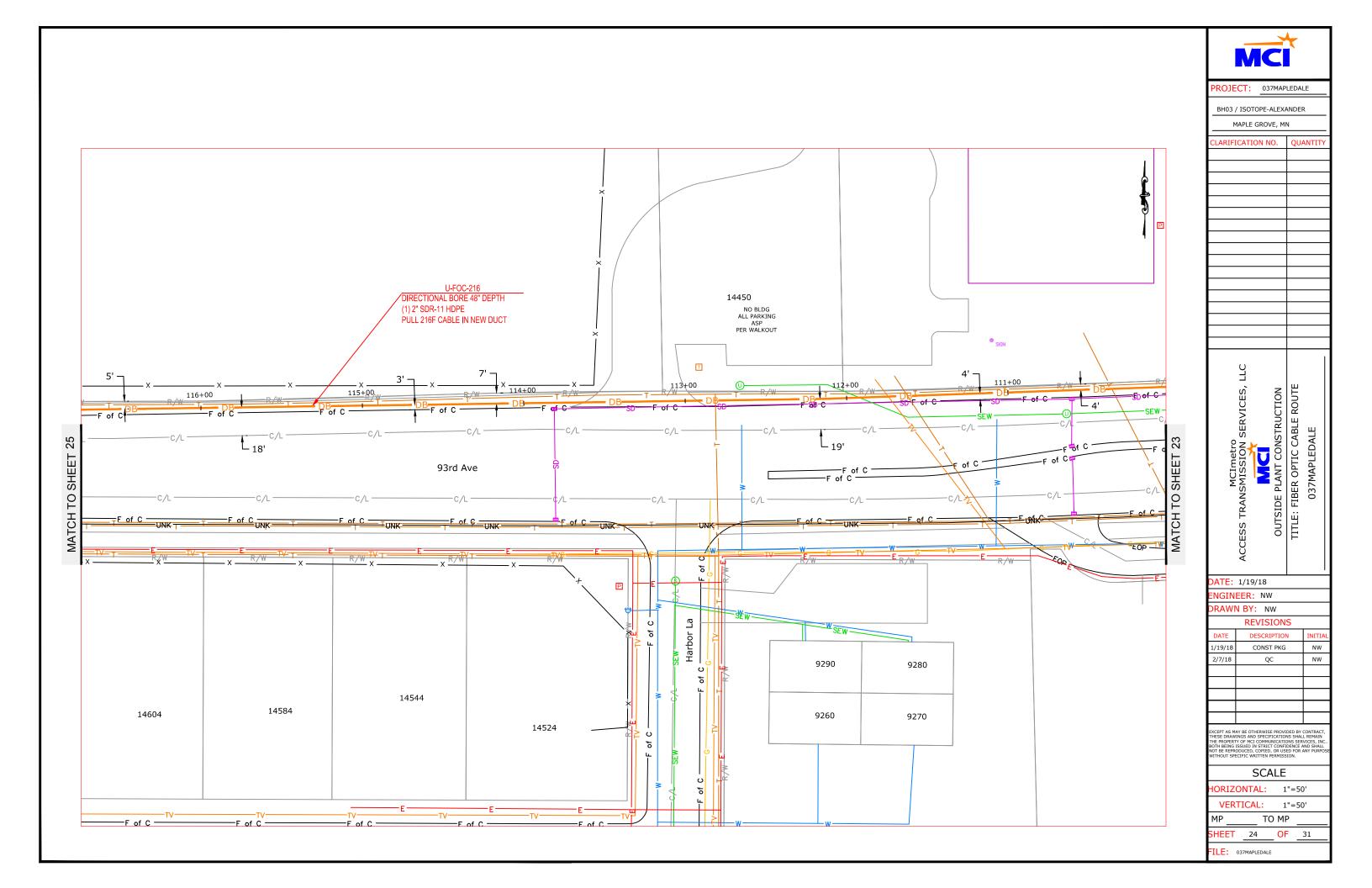


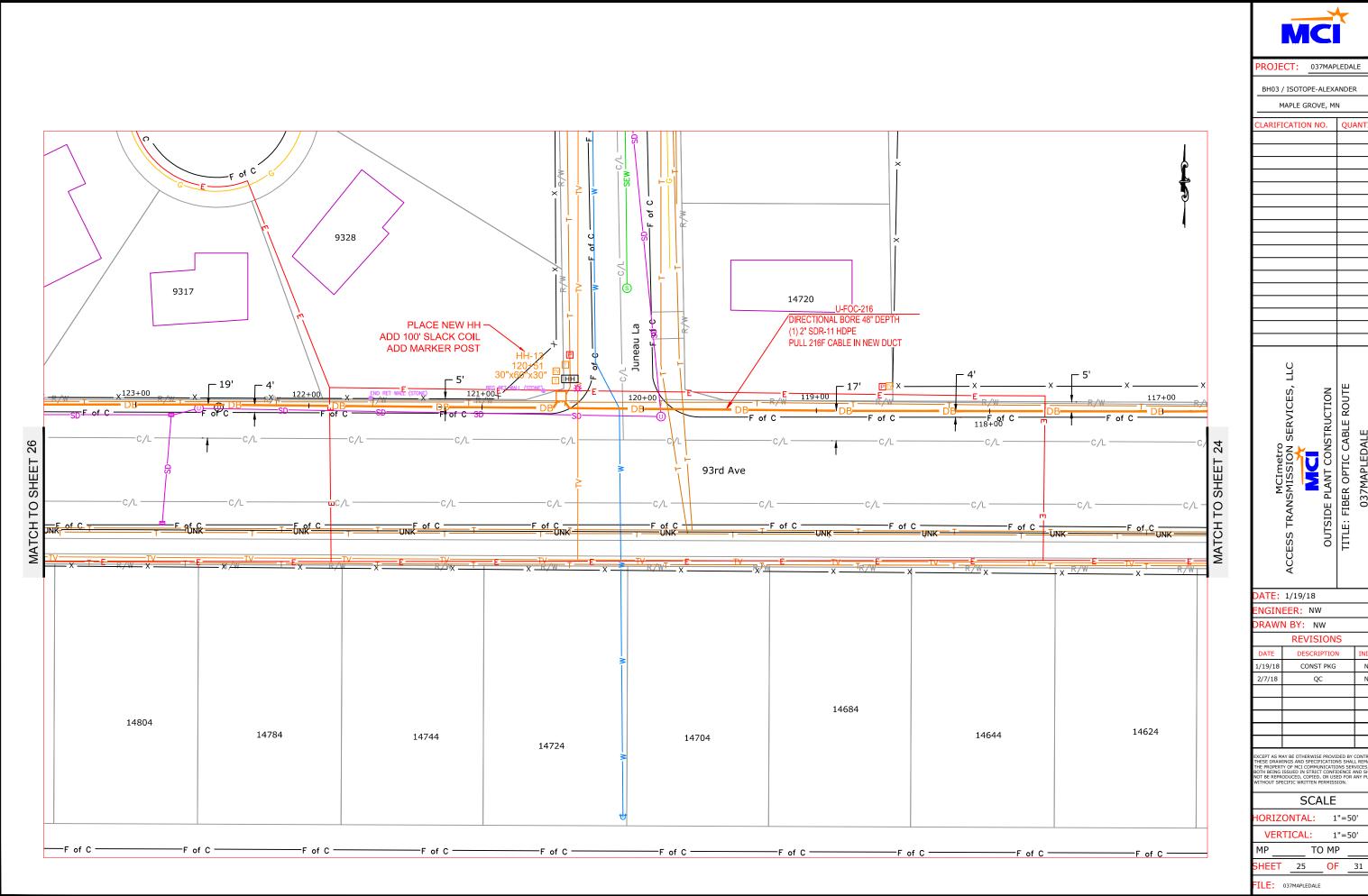






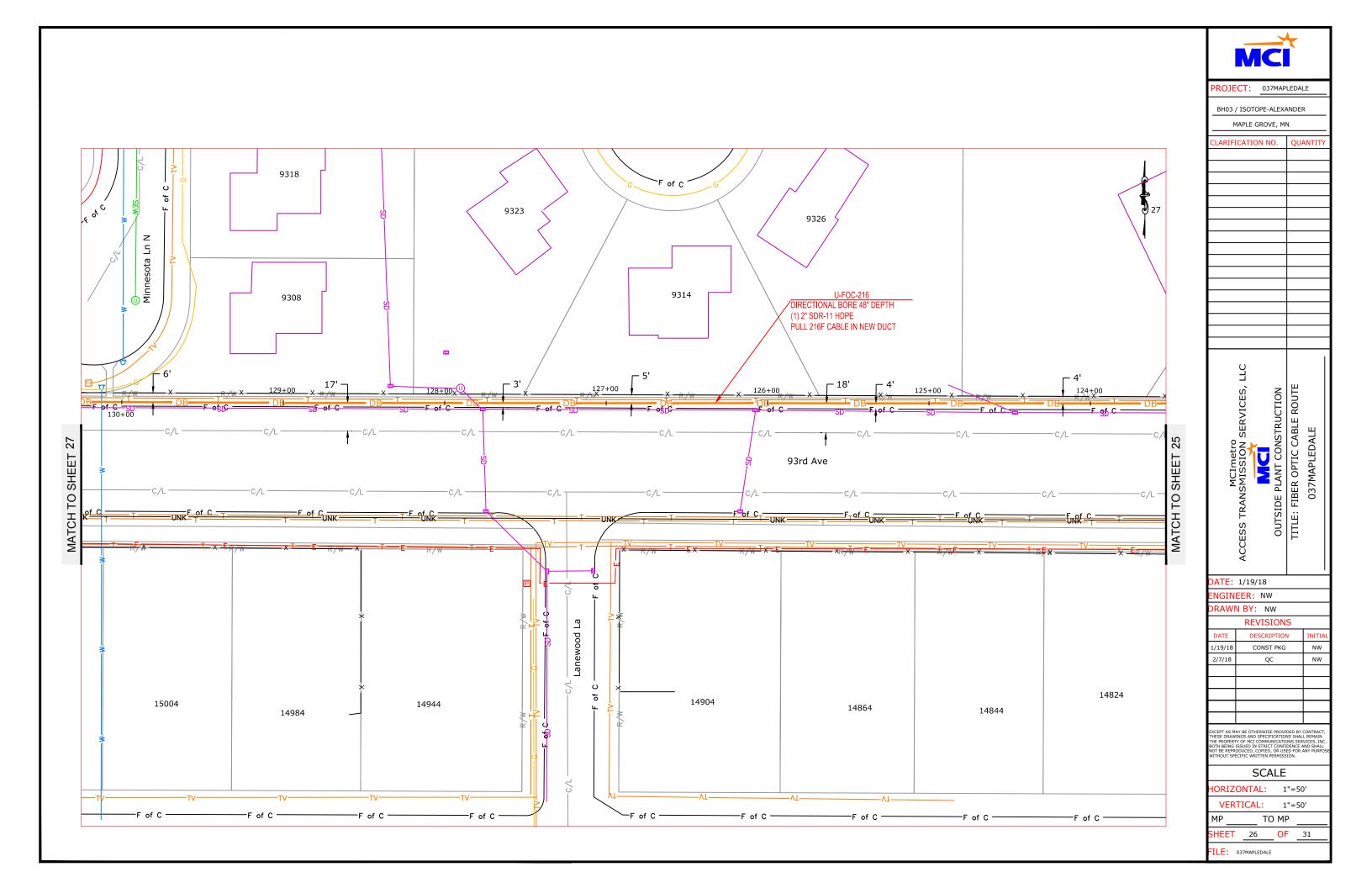


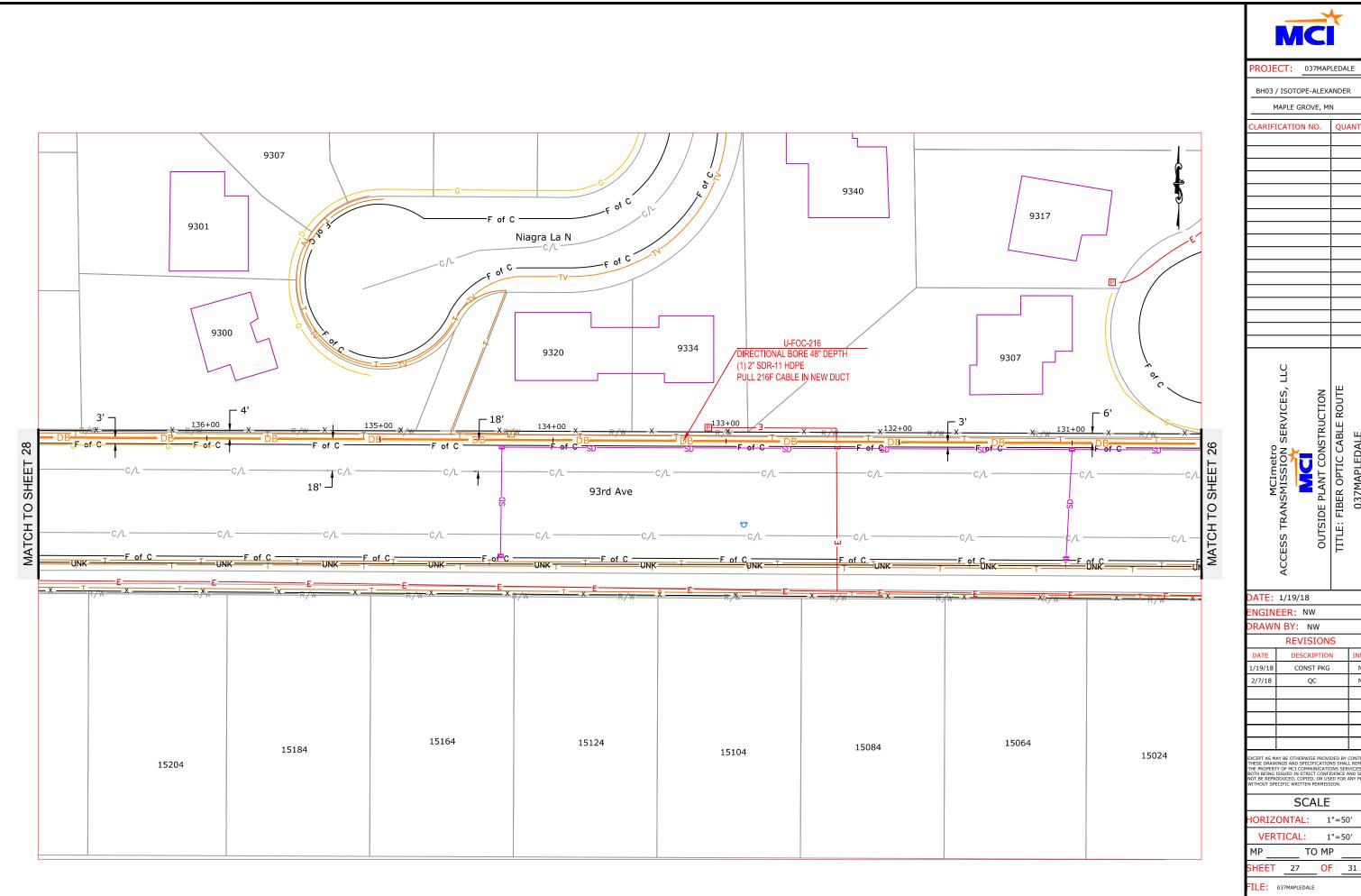




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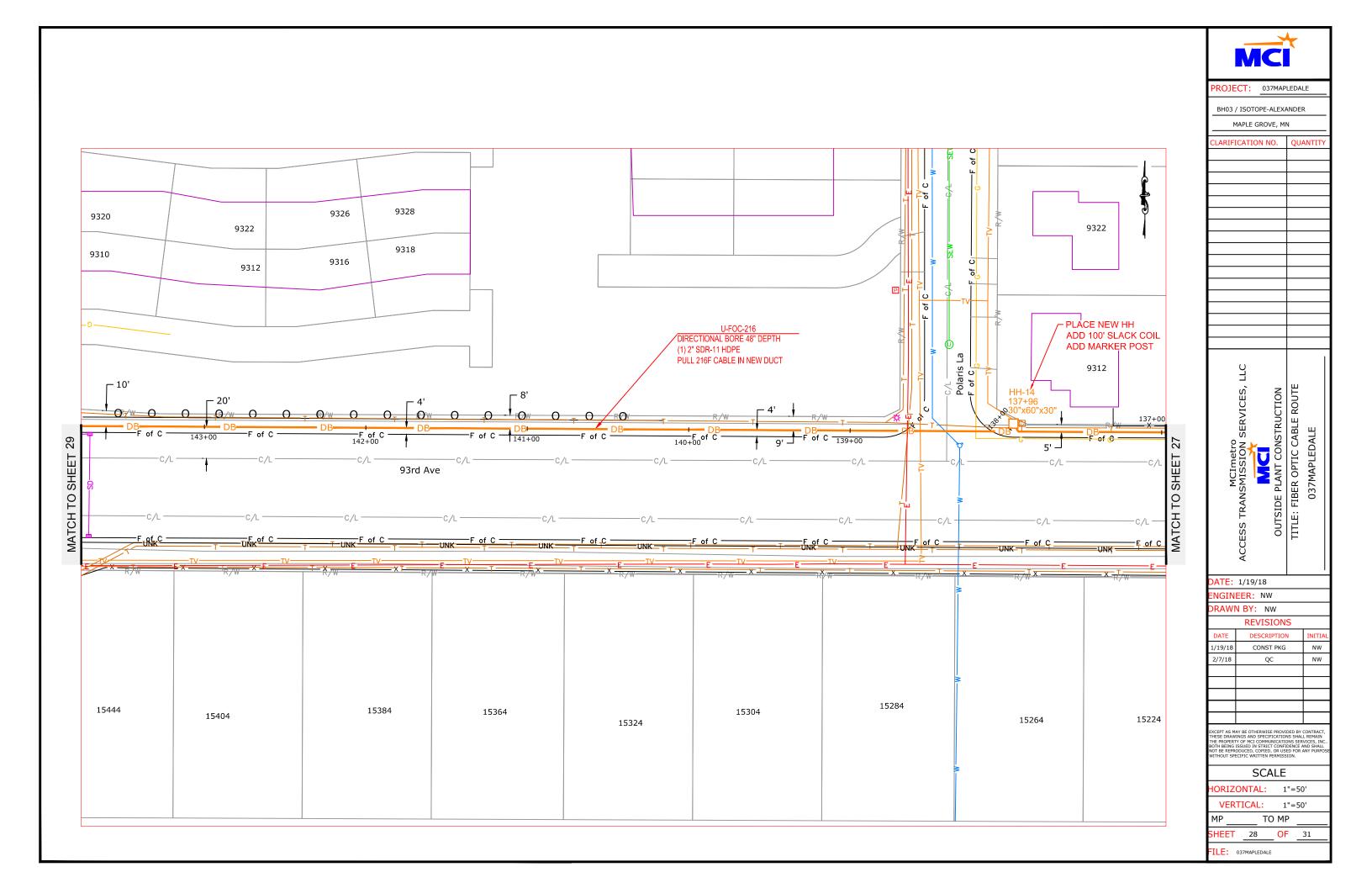


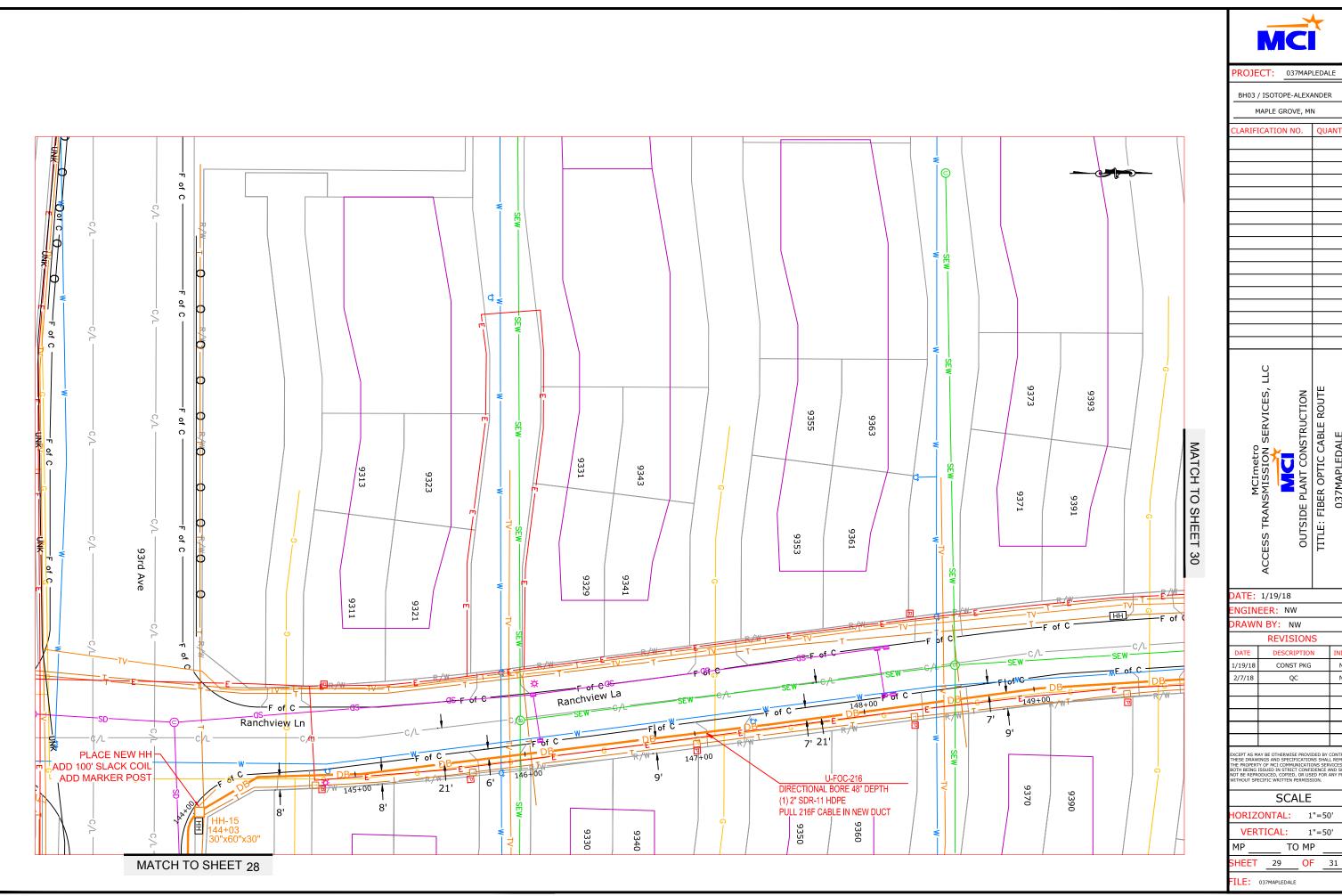


MCI	

OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE 037MAPLEDALE

ORIZONTAL: 1"=50' 1"=50'





037MAPLEDALE

