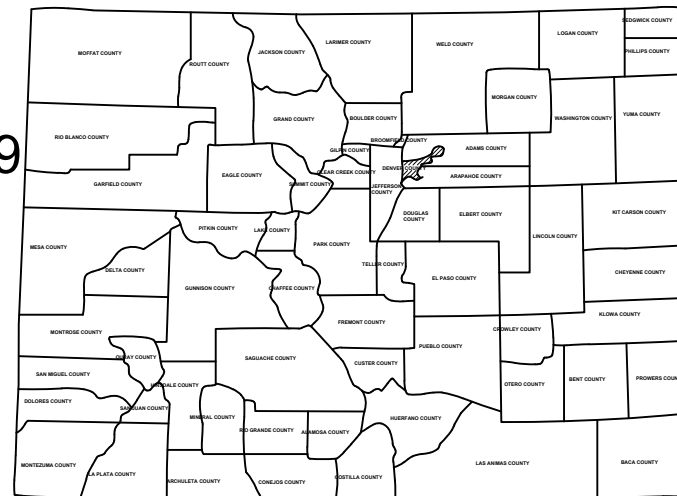




MCI METRO ACCESS TRANSMISSION SERVICES

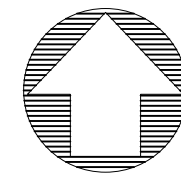
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DN1456_DN2002BA_61LAB_5349
2420 AUTUMN SAGE ST
CASTLE ROCK, CO. 80108
LATITUDE: 39.38991 LONGITUDE:-104.82329
NEW CONDUIT TOTAL FOOTAGE: 7212 FT
EXISTING CONDUIT TOTAL FOOTAGE: 0 FT
CASTLE ROCK



PROJECT:
DN1456_DN2002BA_61LAB_5349

NED

DENVER, CO



MCI metro
ACCESS TRANSMISSION SERVICES, LLC
OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
DENVER, CO NED PERMIT

DATE: 11/12/25

ENGINEER: ADB

DRAWN BY: TAZN

REVISIONS

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SCALE

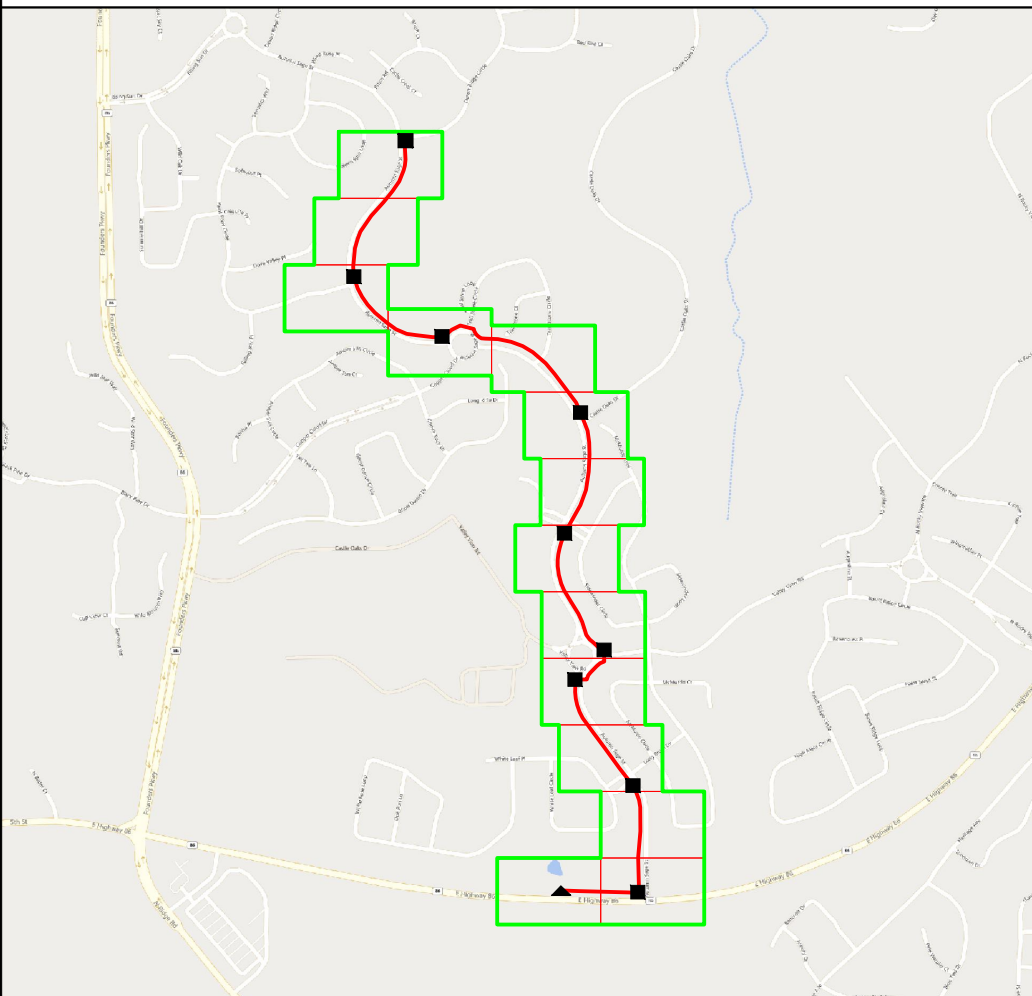
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VERTICAL: 1: 50

SHEET NO: T-1

PAGE NO: 1 OF 31

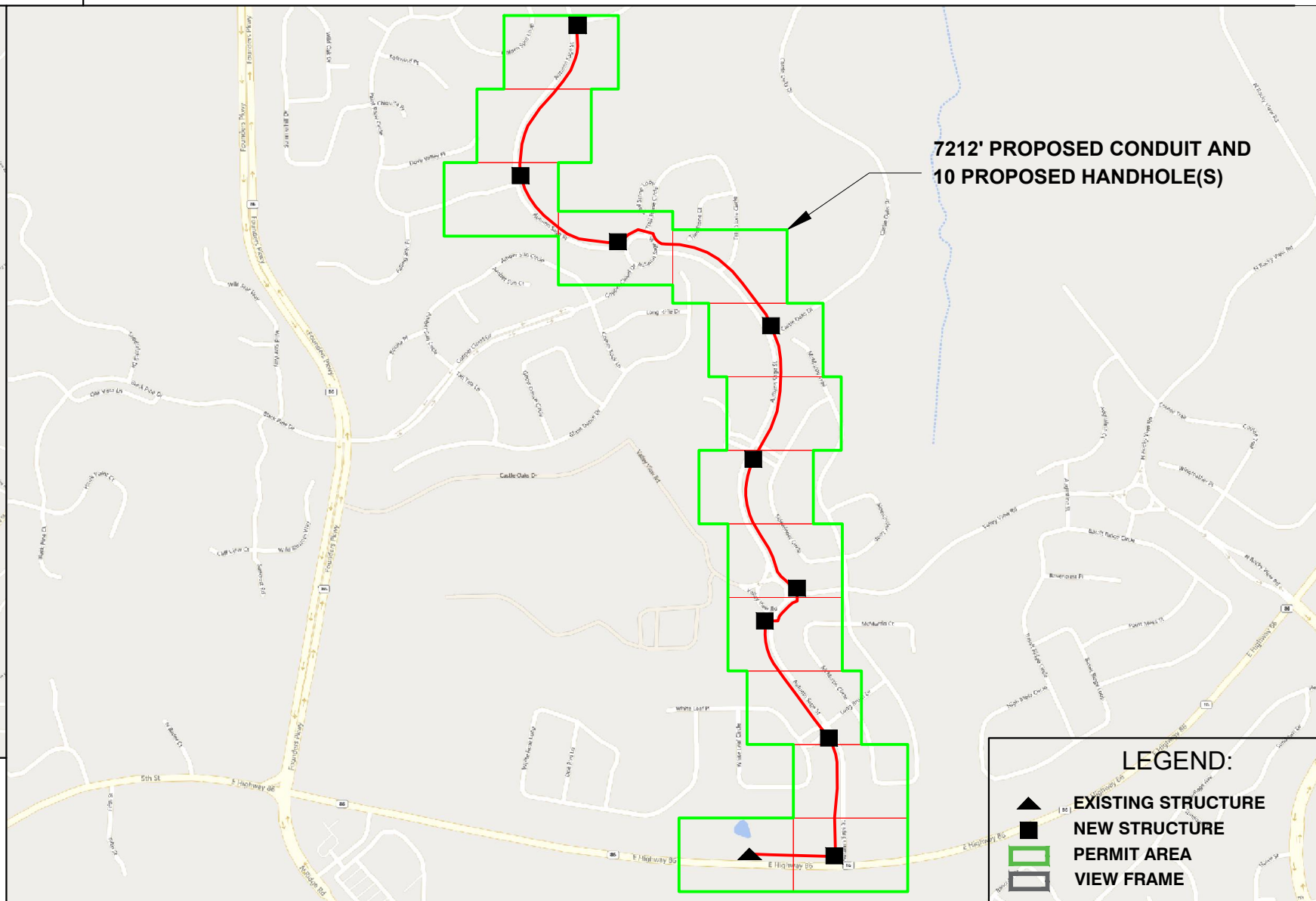
WORK ORDER:
2509CDQU



NOTE:

THE PLAT, PARCEL AND RIGHT OF WAY DIMENSIONAL INFORMATION HAS BEEN ACQUIRED AND PLOTTED ON THESE PLANS USING THE BEST AVAILABLE DATA AND AERIAL IMAGERY. ANY UTILITY INFORMATION SHOWN ON PLANS WAS ACQUIRED FROM THE BEST AVAILABLE DATA AND AS REASONABLY OBTAINED BY PHYSICAL FIELD SURVEY. IT REMAINS THE RESPONSIBILITY OF OTHERS TO FIELD VERIFY ALL DATA TO PROJECT START. LINE LOCATES ARE THE RESPONSIBILITY OF OTHERS TO VERIFY CONFLICT HORIZONTALLY AND VERTICALLY OF EXISTING FACILITIES.

SLACK LOOP STANDARDS PER FIBER SIZE: 864- 75', 432 - 75' ,ALL OTHER FIBER SIZES- 100', ALL AERIAL SLACK LOOPS TO BE 150' AT EVERY 1500' BORES TO BE AT 36" DEPTH TYPICAL, 48" DEPTH AT DOT CROSSINGS IF BORING UNDER TREES IN ROW BORE TO BE DEPTH OF 7' TO AVOID ROOTS



7212' PROPOSED CONDUIT AND
10 PROPOSED HANDHOLE(S)

LEGEND:

- EXISTING STRUCTURE
- NEW STRUCTURE
- PERMIT AREA
- VIEW FRAME



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ENGINEER TO ALTER THIS DOCUMENT



[illegible][illegible]

6880 S. YOSEMITE CT, SUITE 150
CENTENNIAL, CO 80112

VERIZON ONE FIBER – DENVER PROJECT

TO: GREG FRITZ
MCI METRO ACCESS TRANSMISSION SERVICES
GLOBAL TRANSPORT, ENGINEERING & IMPLEMENTATION
9706 E. EASTER AVE, SUITE 100
ENGLEWOOD, CO 80112
(303) 961–3140 (CELL)
(303) 539–3238 (TEL)
EMAIL: greg.fritz@verizon.com

FROM: IRLENE PAGAN
PERMITTING MANAGER
2042 KELTY RD
FRANKTOWN, CO 80116
(720) 480–0684
EMAIL: lpagan@adb–us.com

CONTACTS:

CITY AND COUNTY GOVERNMENT:

DOUGLAS COUNTY: MARK RUSSELL
PERMIT TECHNICIAN
COMMUNITY AND ECONOMIC DEVELOPMENT
4430 SOUTH ADAMS COUNTY PARKWAY
BRIGHTON, CO 80601
(702)523–6821
EMAIL: mrussell@adcogov.org

CASTLE ROCK: MONICA CAMMALLERI
OFFICE ASSISTANT, PUBLIC WORKS DEPARTMENT
100 N. WILCOX ST
CASTLE ROCK, CO 80104
(720) 733–3511 OR (303) 814–6414
EMAIL: zoning@crgov.com OR mcammalleri@crgov.com

1.0 SCOPE OF WORK

- 1.1 THIS PROJECT SHALL CONSIST OF THE FOLLOWING WORK OPERATIONS:
- THIS WORK PACKAGE IS FOR THE INSTALLATION OF THE MCI METRO ACCESS TRANSMISSION SERVICES NETWORK WHICH INCLUDES, BUT IS NOT LIMITED TO:
- A. UTILIZING EXISTING BURIED AND/OR UNDERGROUND CONDUIT FOR FIBER OPTICS INSTALLATION AND THEIR RELATED ITEMS.
- B. INSTALLATION OF NEW BURIED OR UNDERGROUND CONDUIT FOR FIBER OPTICS INSTALLATION AND THEIR RELATED ITEMS.
- C. AERIAL FIBER OPTICS INSTALLATION AND THEIR RELATED ITEMS.

2.0 DRAWINGS

- 2.1 THE WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE FOLLOWING ATTACHED DRAWINGS THAT ARE HEREBY MADE A PART OF THE STATEMENT OF WORK, BY THIS REFERENCE.

3.0 SPECIFICATIONS

- 3.1 THE WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE SPECIFICATIONS CONTAINED IN THAT CERTAIN "MASTER AGREEMENT, OUTSIDE PLANT MAINTENANCE CONSTRUCTION SERVICES," PROVIDED THAT SUCH AN AGREEMENT EXISTS BETWEEN MCI COMMUNICATIONS SERVICES, INC. AND CONTRACTOR. IN THE ABSENCE OF SUCH AN AGREEMENT, THE SPECIFICATIONS CONTAINED IN AN AGREEMENT TO BE EXECUTED BY THE PARTIES PRIOR TO THE COMMENCEMENT OF WORK SHALL GOVERN.

4.0 MATERIALS

- 4.1 CONTRACTOR SHALL FURNISH AND PLACE ALL MATERIALS REQUIRED FOR THE COMPLETE PERFORMANCE OF THE WORK EXCEPT FOR MATERIALS PROVIDED BY MCI COMMUNICATIONS SERVICES, INC.
- 4.2 CONTRACTOR SHALL RECEIVE MCI COMMUNICATIONS SERVICES, INC. FURNISHED MATERIAL AT AN MCI COMMUNICATIONS SERVICES, INC. LEASED WAREHOUSE FACILITY OR AT THE LOCAL TSO LOCATED AT (CONTACT 24 HOURS IN ADVANCE): 4600 S. SYRACUSE ST, SUITE 800; DENVER, CO 80237 (913) 458–2000.
- ALL UNUSED AND REQUESTED SALVAGED MATERIAL TO BE RETURNED TO SAME ADDRESS
- 4.3 THE RECEIPT OF ALL MATERIALS SHALL BE CONSTRUED AS CONCLUSIVE EVIDENCE THAT THE CONTRACTOR HAS MADE ALL NECESSARY EXAMINATION AND INSPECTIONS, AND IS SATISFIED AS TO THE QUALITY AND QUANTITY OF MATERIALS RECEIVED.
- 4.4 ANY AND ALL MATERIALS THAT MAY BECOME LOST, STOLEN OR DAMAGED SHALL BE REPLACED BY THE CONTRACTOR AT HIS SOLE EXPENSE, AND ANY DELAY INCURRED SHALL NOT BE CAUSE FOR AN EXTENSION IN TIME.
- 4.5 ALL UNUSED MATERIALS SUPPLIED BY MCI COMMUNICATIONS SERVICES, INC. BUT NOT USED IN THE COMPLETION OF WORK SHALL BE RETURNED TO MCI COMMUNICATIONS SERVICES, INC. FOURTEEN (14) DAYS AFTER THE COMPLETION OF THE CONTRACT. MCI COMMUNICATIONS SERVICES, INC. WILL ARRANGE FOR THE TRANSPORTATION OF THESE UNUSED MATERIALS.

5.0 PERMITS

- 5.1 MCI COMMUNICATIONS SERVICES, INC. HAS OBTAINED OR WILL OBTAIN PERMITS FROM DEPARTMENTS AND/OR AGENCIES OF CITIES, COUNTIES, STATES, FEDERAL GOVERNMENT, RAILROAD OR OTHER ENTITIES, WHICH PROVIDE FOR THE PLACING OF PIPES AND/OR CABLE UNDER DITCHES, TRACKS AND ROADS AND PLACING PIPES AND/OR CABLE ALONG AND WITHIN PUBLIC OR PRIVATE ROAD RIGHTS OF WAY AND RAILROAD RIGHTS OF WAY.
- 5.2 CONTRACTOR SHALL OBTAIN ADDITIONAL PERMITS, IF REQUIRED, FOR EQUIPMENT ACCESS OR MOVEMENT ON PUBLIC ROADS AND RAILROADS. COPIES OF SUCH PERMITS SHALL BE FURNISHED TO MCI COMMUNICATIONS SERVICES, INC.
- 5.3 ALL TRAFFIC CONTROL, IF APPLICABLE, SHALL BE IN ACCORDANCE WITH LOCAL, STATE, COUNTY, OR PERMITTING AGENCY LAWS, REGULATIONS, AND REQUIREMENTS, AND WILL BE THE CONTRACTOR'S RESPONSIBILITY. (SEE MCIT 046 302 3802.)

6.0 SAFETY AND PRECAUTIONS

- 6.1 ALL PERSONNEL ARE REQUIRED TO ABIDE BY ALL RULES AND REGULATIONS SET FORTH IN THE MCI SAFETY REQUIREMENTS, RAILROAD SAFETY CODE AND GOVERNING JURISDICTION.
- 6.2 THE WORK UNDER THIS CONTRACT WILL BE CONSTRUCTED ALONG RIGHTS OF WAY THAT MAY CONTAIN EXISTING AND OPERATIONAL UTILITIES. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR LOCATING EXISTING UTILITIES AND FOR COMPLIANCE WITH THE REQUIREMENTS OF ANY STATEWIDE AND/OR LOCAL AREA "ONE CALL" (CDOT LIGHTING/ITS NOT ON "ONE CALL" SYSTEM, CONTACT LOCAL CDOT OFFICE) PROGRAM OR AGENCY PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY BEING PERFORMED UNDER THIS CONTRACT. EXTREME CARE MUST BE EXERCISED TO AVOID HITTING OR CAUSING DAMAGE TO ANY SUBSURFACE STRUCTURES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO TIMELY NOTIFY THE OWNERS OF SUBSURFACE PLANT (PLUS THOSE AGENCIES NOT ASSOCIATED WITH THE STATEWIDE AND/OR LOCAL "ONE CALL" (CDOT LIGHTING/ITS NOT ON "ONE CALL" SYSTEM, CONTACT LOCAL CDOT OFFICE) PROGRAM OR AGENCY) IN ADVANCE OF ANY EXCAVATION, BORING OR PLACING WORK AND THE CONTRACTOR SHALL LOCATE AND EXPOSE BY HAND ALL EXISTING SUBSURFACE PLANT. ANY DAMAGE CAUSED BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT HIS SOLE EXPENSE AND ANY DELAY INCURRED SHALL NOT BE CAUSE FOR AN EXTENSION IN TIME OF THE CONTRACT.
- 6.3 CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND MAINTENANCE OF PUBLIC AND PRIVATE PROPERTIES. CONTRACTOR SHALL PROTECT, SHORE, BRACE, SUPPORT AND MAINTAIN ALL UNDERGROUND PIPES, CONDUITS, DRAINS, AND OTHER SUBSURFACE STRUCTURES UNCOVERED OR OTHERWISE AFFECTED BY THE WORK.
- 6.4 CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE TO STREETS, ROADS, HIGHWAYS, SHOULDERS, DITCHES, EMBANKMENTS, CULVERTS, BRIDGES OR OTHER PUBLIC OR PRIVATE PROPERTY OR FACILITY, REGARDLESS OF LOCATION OR CHARACTER, WHICH MAY BE CAUSED BY THE WORK, OR BY MOVING, HAULING, OR OTHERWISE TRANSPORTING EQUIPMENT, MATERIALS OR WORKERS TO OR FROM WORK OR ANY SITE THEREOF, WHETHER BY THE CONTRACTOR OR SUBCONTRACTORS.
- 6.5 DURING ALL PHASES OF CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN WORK AREAS IN A NEAT AND ORDERLY MANNER. CONSTRUCTION EQUIPMENT, MATERIAL AND SUPPLIES THAT ARE STORED ON THE RIGHT OF WAY SHALL NOT RESTRICT ACCESS TO SUCH RIGHT OF WAY OR THE RIGHT OF WAY ITSELF.

7.0 SECURITY

- 7.1 CONTRACTOR IS RESPONSIBLE FOR ALL SECURITY REQUIRED TO PROTECT HIS WAREHOUSE, LAYDOWN, AND STAGING AREA AND THE OUTSIDE PLANT WORK. SECURITY SHALL ALSO INCLUDE TRAFFIC CONTROL WHERE REQUIRED INCLUDING THE USE OF OFF DUTY POLICE OFFICERS.

8.0 STAKING AND SCHEDULING

- 8.1 ALL STAKING WILL BE PROVIDED BY MCI COMMUNICATIONS SERVICES, INC. REQUIRED RIGHT OF WAY CLEARING SHALL BE COMPLETED PRIOR TO STAKING; THEREFORE, THE CONTRACTOR SHALL COORDINATE ALL CLEARING OPERATIONS AND PLACING OPERATIONS WITH THE MCI COMMUNICATIONS SERVICES, INC. PROJECT SUPERVISOR TO AVOID DELAYS AND INTERFERENCE.
- 8.2 MCI COMMUNICATIONS SERVICES, INC. WILL PROVIDE RAILROAD, FLAGMEN AND SINGNALMEN AS REQUIRED; HOWEVER THE CONTRACTOR SHALL BE REQUIRED TO COORDINATE ITS NEEDS FOR SUCH SIGNALMEN AND FLAGMEN WITH MCI COMMUNICATIONS SERVICES, INC.
- 8.3 IN ADDITION TO THE SCHEDULING REQUIREMENTS IN THE GENERAL PROVISIONS, UPON REQUEST THE CONTRACTOR SHALL ALSO SUBMIT, TO THE MCI COMMUNICATIONS SERVICES, INC. PROJECT SUPERVISOR, DAILY CREW ASSIGNMENT REPORTS SPECIFYING CREW AND CREW COMPOSITION AND WORK LOCATION.

9.0 SPECIAL CONSIDERATIONS

- 9.1 DURING THE BIDDING PROCESS THE CONTRACTOR SHOULD CONSIDER THE FOLLOWING ITEMS:
- 9.1.1 CONTRACTOR SHALL BE REQUIRED TO PROVED 24–HOUR SECURITY PROTECTION ON ANY EXPOSED CONDUIT/CABLE THAT CONTAINS AN OPERATIONAL FIBER OPTIC CABLE.
- 9.1.2 ALL WASTE AND/OR ABANDONED MATERIALS TO BE REMOVED SHALL BE DISPOSED OF AT A "RECOGNIZED DUMP FACILITY" IN THE AREA AS DESIGNATED BY THE LOCAL GOVERNING AUTHORITY.
- 9.1.3 WHEN WORKING IN THE VICINITY OF A HANDHOLE, MANHOLE, OR SPLICE LOCATION ON AN EXISTING MCI COMMUNICATIONS SERVICES, INC. FIBER OPTIC SYSTEM, ALL CONDUIT/CABLE SWEEPS INTO THE HANDHOLE/MANHOLE/SPLICE BOX MUST BE HAND EXPOSED FOR THEIR ENTIRE LENGTH. THIS EXPOSURE MUST BE DONE UNTIL THE MCI COMMUNICATIONS, SERVICES, INC. INSPECTOR IS SATISFIED THAT THE ENTIRE SWEEP HAS BEEN EXPOSED AND IDENTIFIED. POTHOLES ONLY IS NOT SUFFICIENT IN THIS SITUATION. THIS WILL ALSO INCLUDE THE OPENING OF ALL HANDHOLES FOR VERIFICATION OF CABLE ROUTING INFORMATION.

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PROJECT:
DN1456_DN2002BA_61LAB_5349

NED

DENVER, CO

MCI metro
ACCESS TRANSMISSION SERVICES, LLC

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC CABLE ROUTE

DENVER, CO NED PERMIT

DATE: 11/12/25

ENGINEER: ADB

DRAWN BY: TAZN

REVISIONS

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SCALE

HORIZONTAL: 1" = 50'

VERTICAL: 1" = 50'

SHEET NO: T-3

PAGE NO: 3 OF 31

WORK ORDER: 2509CDQU

SLACK LOOP STANDARDS PER FIBER SIZE: 864- 75', 432 - 75' ,ALL OTHER FIBER SIZES- 100', ALL AERIAL SLACK LOOPS TO BE 150' AT EVERY 1500' BORES TO BE AT 36" DEPTH TYPICAL, 48" DEPTH AT DOT CROSSINGS IF BORING UNDER TREES IN ROW BORE TO BE DEPTH OF 7' TO AVOID ROOTS



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PROJECT:
DN1456_DN2002BA_61LAB_5349

NED
DENVER, CO

MCI metro ACCESS TRANSMISSION SERVICES, LLC	DENVER, CO NED PERMIT
OUTSIDE PLANT CONSTRUCTION	
TITLE: FIBER OPTIC CABLE ROUTE	

DATE: 11/12/25

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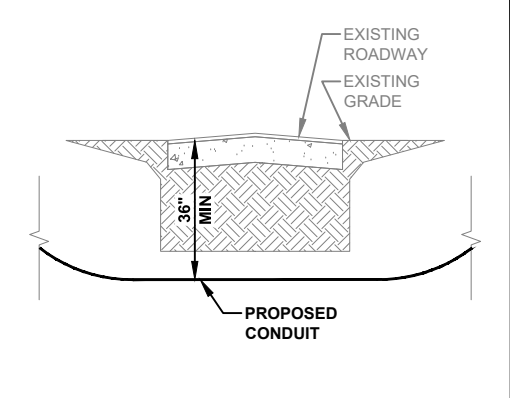
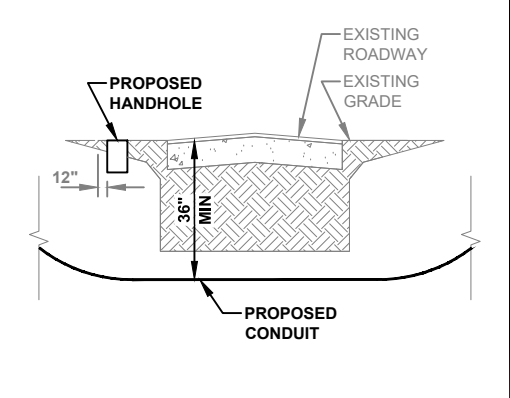
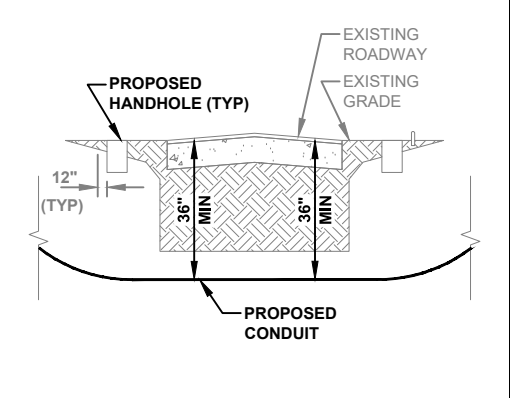
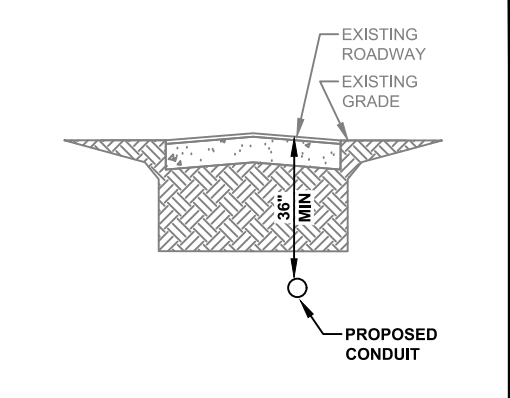
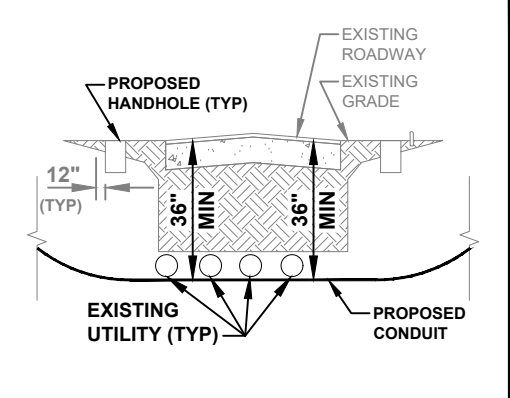
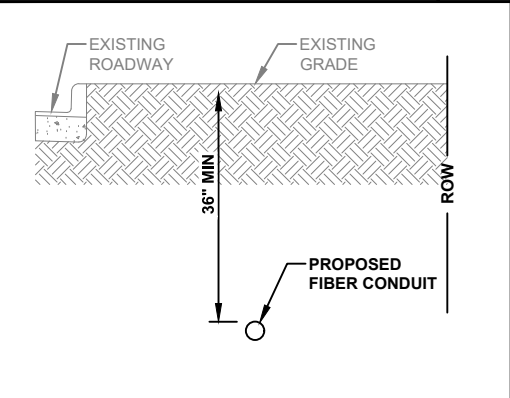
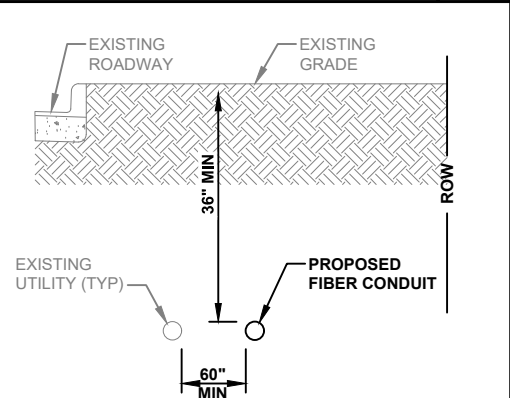
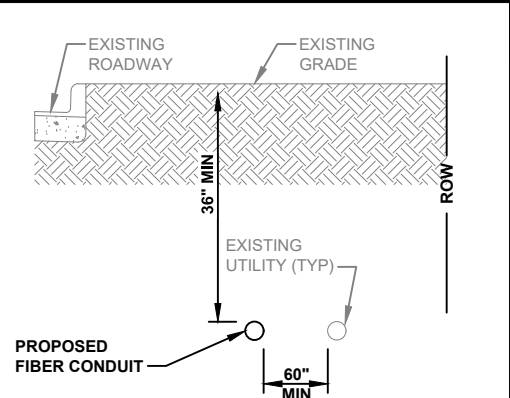
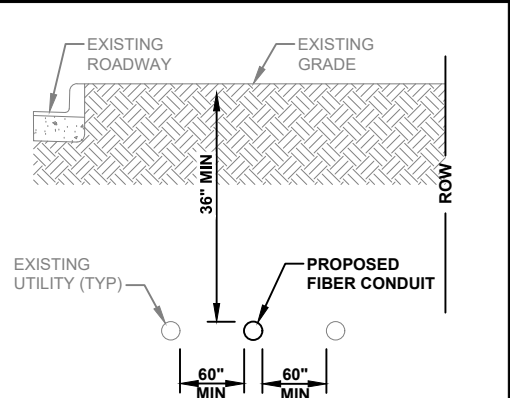
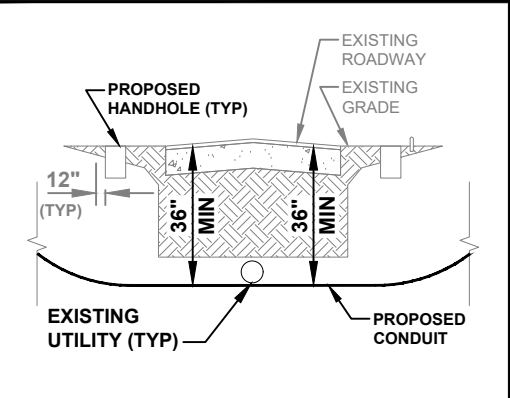
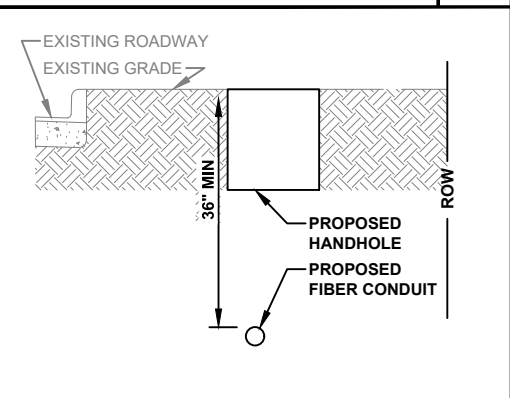
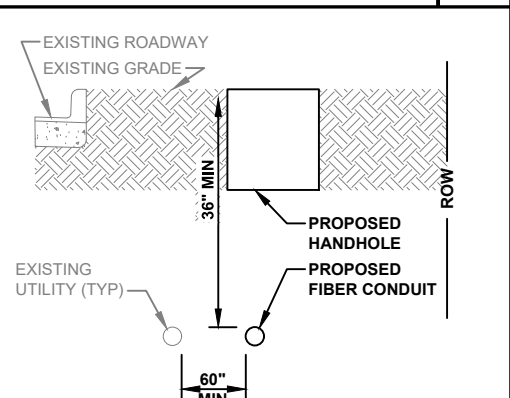
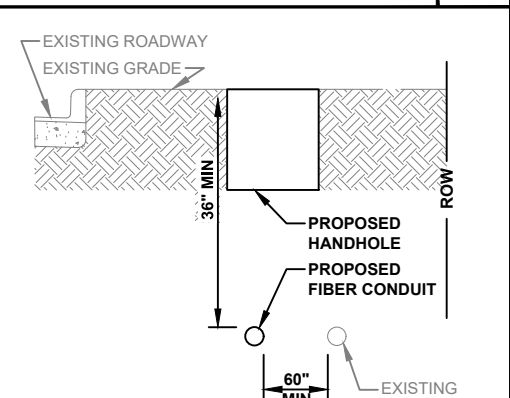
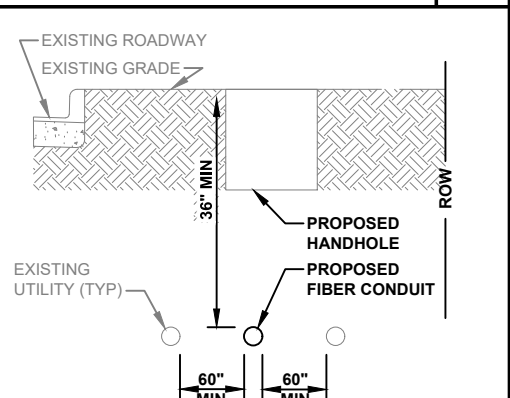
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VERTICAL: 1: 50

SHEET NO: T-4

PAGE NO: 4 OF 31

WORK ORDER:
2509CDQU

									
TYPICAL ROADWAY CROSSING	1	ROADWAY CROSSING WITH (1) VAULT	2	ROADWAY CROSSING WITH (2) VAULTS	3	BORE UNDER ROADWAY	4	ROADWAY CROSSING WITH EXISTING UTILITIES	13
									
TYPICAL BORE SECTION	5	BORE SECTION WITH EXISTING UTILITY	6	BORE SECTION WITH EXISTING UTILITY	7	BORE SECTION WITH EXISTING UTILITIES	8	ROADWAY CROSSING WITH EXISTING UTILITY	14
									
TYPICAL BORE & VAULT SECTION	9	TYPICAL BORE & VAULT SECTION WITH EXISTING UTILITY	10	TYPICAL BORE & VAULT SECTION WITH EXISTING UTILITY	11	TYPICAL BORE & VAULT SECTION WITH EXISTING UTILITIES	12		

SLACK LOOP STANDARDS PER FIBER SIZE: 864 - 75', 432 - 75', ALL OTHER FIBER SIZES- 100', ALL AERIAL SLACK LOOPS TO BE 150' AT EVERY 1500' BORES TO BE AT 36" DEPTH TYPICAL, 48" DEPTH AT DOT CROSSINGS IF BORING UNDER TREES IN ROW BORE TO BE DEPTH OF 7' TO AVOID ROOTS



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PROJECT:
DN1456_DN2002BA_61LAB_5349

NED

DENVER, CO

MCImetro
ACCESS TRANSMISSION SERVICES, LLC
OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
DENVER, CO NED PERMIT

DATE: 11/12/25

ENGINEER: ADB

DRAWN BY: TAZN

REVISIONS

SCALE

HORIZONTAL: 1: 50

VERTICAL: 1: 50

SHEET NO: T-5

PAGE NO: 5 OF 31

WORK ORDER:
2509CDQU

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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-CONSTRUCTION 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 SYSTEM. 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:

5.1. 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.

5.2. 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 POTHOLE 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.

5.3. 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.

5.4. IF THE PROPOSED WORK INVOLVES DIGGING OR EXCAVATING WITHIN 15 FEET (BUT NOT CLOSER THAN 5 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 30 FT.

5.5. 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:

6.1. NO MECHANICAL EXCAVATION WITHIN 3 FT. OF OSP FACILITIES WILL BE ALLOWED UNLESS THE FACILITIES HAVE FIRST BEEN PROPERLY LOCATED, POTHOLED, POSITIVELY IDENTIFIED, CONTINUOUSLY EXPOSED BY HAND DIGGING OR VACUUM EXCAVATION, AND THE FACILITIES ARE CLEARLY VISIBLE.

6.2. 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:

1. ALL FEDERAL, STATE AND LOCAL SAFETY REGULATIONS MUST BE FOLLOWED WITHOUT EXCEPTION.
2. 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.
3. USE OF INTOXICANTS, DRUGS, INHALANTS OR ANY OTHER SUBSTANCES THAT MAY IMPAIR ALERTNESS IS STRICTLY PROHIBITED.
4. 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.
5. 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.
6. TOOLS AND EQUIPMENT SPECIFICALLY DESIGNED FOR THE JOB AT HAND ARE REQUIRED. USE THE PROPER TOOL FOR THE JOB.
7. CONDUIT WORK INVOLVING ACTIVE CABLES REQUIRES SPECIALIZED TOOLS SPECIFICALLY DESIGNED TO ACCESS DUCTS WITH ACTIVE CABLES.
8. PROTECTING MCI FACILITIES IS EXTREMELY IMPORTANT; HOWEVER, SAFETY REGARDING YOURSELF AND OTHERS IS THE MOST IMPORTANT PART OF ANY PROJECT.

IN ORDER TO REDUCE THE DISRUPTION AND COST OF UTILITY DAMAGES OCCURRING IN THE RIGHT-OF-WAY AND EASEMENTS, THE PERMITTEE SHALL PREVENT DAMAGES TO EXISTING UTILITIES CAUSED BY THE WORK THROUGH FIELD VERIFICATION OF THE LOCATION OF THE EXISTING UTILITIES IN CASE OF OPEN EXCAVATION. VERIFICATION MAY BE PERFORMED DURING THE PERMITTEES WORK. IN THE CASE OF DIRECTIONAL DRILLING, VERIFICATION SHALL TAKE PLACE PRIOR TO MOBILIZATION OF THE DRILLING EQUIPMENT.

THE PERMITTEE SHALL VERIFY THE LOCATION OF THE EXISTING UTILITIES AS NEEDED TO AVOID CONTACT WITH DETECTION EQUIPMENT OR OTHER ACCEPTABLE MEANS. SUCH METHODS MAY INCLUDE, BUT SHALL NOT BE LIMITED TO --"SOFT DIG"-- EQUIPMENT AND GROUND PENETRATING RADAR (GPR). THE EXCAVATOR SHALL BE HELD LIABLE FOR DAMAGES CAUSED TO CITY'S/COUNTIES/STATE INFRASTRUCTURE AND THE EXISTING FACILITIES OF THE OTHER UTILITY COMPANIES.

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, LLC

--MCI METRO ACCESS TRANSMISSION SERVICES OF MASSACHUSETTS, INC.

--METROPOLITAN FIBER SYSTEMS OF NEW YORK, INC.
2. ALL WORK TO BE DONE WITH EXTREME CAUTION! FIBER OPTIC CABLE IS CARRYING TRAFFIC AND LOSS OF SERVICE WILL RESULT IN LOSS OF REVENUE. CONTRACTOR SHALL NOT WORK IN A MANNER THAT MAY AFFECT TRAFFIC-CARRYING FACILITIES IN THE ABSENCE OF AN MCI EMPLOYEE OR CERTIFIED CONTRACTOR.
3. 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.
4. 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.
5. 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.
6. 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.
7. 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 OR BETTER THAN ORIGINAL CONDITIONS.
8. 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.
9. SHORING OF BORE PITS AND TRENCHES IN ACCORDANCE WITH OSHA REGULATIONS IS MANDATORY.
10. 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.
11. ALL 2" ID CONDUIT WILL BE HDPE SDR11.

CONSTRUCTION NOTES

1. ALL CONDUIT WILL BE 2" HDPE SDR11.
2. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES 48 HOURS PRIOR TO CONSTRUCTION ACTIVITY. SEE CONTACT SHEET FOR CONTACT NAME AND TELEPHONE NUMBER.
3. ALL UNDERGROUND OBSTRUCTIONS, WHEN LOCATED, WILL REQUIRE THE PLACEMENT OF A BURIED CABLE MARKER.
4. SHORING MAY BE REQUIRED AND SHALL COMPLY TO O.S.H.A. STANDARDS.
5. ALL BURIED CONDUIT/CABLE WILL BE PLACED AT 48" MINIMUM COVER UNLESS SPECIFIED OTHERWISE ON THE CONSTRUCTION DRAWINGS.
6. MECHANICAL PROTECTION SHALL BE REQUIRED ANYTIME A 36" MINIMUM COVER IS UNOBTAINABLE UNLESS SPECIFIED OTHERWISE ON THE CONSTRUCTION DRAWINGS.
7. OPERATIONS PERSONNEL TO BE CONTACTED BY THE CONTRACTOR 48 HOURS PRIOR TO CONSTRUCTION. SEE CONTACT SHEET FOR CONTACT NAME AND TELEPHONE NUMBER.
8. ALL STATIONING IS BASED ON AS-BUILT INFORMATION, THEREFORE SOME VARIANCE SHOULD BE ANTICIPATED. ADJUST AS NEEDED.
9. RAILROAD COMMUNICATION AND SIGNAL CABLES TO BE LOCATED PRIOR TO CONSTRUCTION ACTIVITY. RAILROAD TO BE GIVEN 48 HOURS NOTICE PRIOR TO CONSTRUCTION.
10. ALL BURIED CABLE MARKER POSTS AND HARDWARE PLACED AND/OR REMOVED ON ALL NEW AND EXISTING ROUTES SHALL BE IMPLEMENTED AS FOLLOWS:

10.1. ON THOSE ROUTES THAT ARE CONSIDERED TO BE IN A NORTH TO SOUTH GEOGRAPHICAL ORIENTATION, THE SOUTHERN-MOST SIGN AND POST SHOULD BE REMOVED. * FOR NEW ROUTES BEING CONSTRUCTED, ONE SIGN POST WILL BE PLACED AT THE NORTH END OF EACH HANDHOLE.

10.2. ON THOSE ROUTES THAT ARE CONSIDERED TO BE IN AN EAST TO WEST GEOGRAPHICAL ORIENTATION, THE WESTERN-MOST SIGN AND POST SHOULD BE REMOVED. *FOR NEW ROUTES BEING CONSTRUCTED, ONE SIGN POST WILL BE PLACED AT THE EAST END OF EACH HANDHOLE.

SLACK LOOP STANDARDS PER FIBER SIZE: 864- 75', 432 - 75' ,ALL OTHER FIBER SIZES- 100'. ALL AERIAL SLACK LOOPS TO BE 150' AT EVERY 1500' BORES TO BE AT 36" DEPTH TYPICAL, 48" DEPTH AT DOT CROSSINGS IF BORING UNDER TREES IN ROW BORE TO BE DEPTH OF 7' TO AVOID ROOTS



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PROJECT: DN1456_DN2002BA_61LAB_5349

NED

DENVER, CO

MCI metro
ACCESS TRANSMISSION SERVICES, LLC

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC CABLE ROUTE

DENVER, CO NED PERMIT

DATE: 11/12/25

ENGINEER: ADB

DRAWN BY: TAZN

REVISIONS

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SCALE

HORIZONTAL: 1: 50

VERTICAL: 1: 50

SHEET NO: GN-1

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EROSION CONTROL NOTES
THE OWNER, SITE DEVELOPER, CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL ENSURE THAT ALL POTENTIAL POLLUTANTS GENERATED DURING DEMOLITION OR CONSTRUCTION WORK ASSOCIATED WITH THIS PROJECT, BE PREVENTED FROM DISCHARGE TO STORMWATER CONVEYANCE SYSTEMS IN THE VICINITY OF THIS PROJECT SITE IN ACCORDANCE WITH THE FOLLOWING:

1. THE OWNER, SITE DEVELOPER, CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL PREVENT SEDIMENT, DEBRIS AND ALL OTHER POLLUTANTS FROM ENTERING THE STORM SEWER SYSTEM DURING ALL DEMOLITION, EXCAVATION, TRENCHING, BORING, GRADING, OR OTHER CONSTRUCTION OPERATIONS THAT ARE PART OF THIS PROJECT. THE OWNER, SITE DEVELOPER, CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL BE HELD RESPONSIBLE FOR REMEDIATION OF ANY ADVERSE IMPACTS TO THE MUNICIPAL SEWER SYSTEM RECEIVING WATERS, WATERWAYS, WETLANDS, AND/OR OTHER PUBLIC OR PRIVATE PROPERTIES, RESULTING FROM WORK DONE AS PART OF THIS PROJECT.

2. THE OWNER, SITE DEVELOPER, CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO OR, ACCUMULATE IN THE FLOW LINES OF STORM DRAINAGE APPURTENANCES, AND PUBLIC RIGHTS OF WAYS OF THE CITY AND COUNTY OF DENVER, AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PROJECT. ALL REMOVALS SHALL BE CONDUCTED IN A TIMELY MANNER.

3. THE OWNER, SITE DEVELOPER, CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL INSURE THAT ALL LOADS OF CUT AND FILL MATERIAL IMPORTED TO OR EXPORTED FROM THIS SITE SHALL BE PROPERLY COVERED TO PREVENT LOSS OF THE MATERIAL DURING TRANSPORT ON PUBLIC RIGHTS OF WAY. (SEC.49-552; REVISED MUNICIPAL CODE).

4. THE USE OF REBAR TO ANCHOR BEST MANAGEMENT PRACTICES, OTHER THAN PORTABLE TOILETS, IS PROHIBITED.

5. THE OWNER, SITE DEVELOPER, CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL IMPLEMENT THE FOLLOWING BEST MANAGEMENT PRACTICES (BMPs) ON SITE DURING CONSTRUCTION:

A) VEHICLE TRACKING CONTROL: THIS BMP IS REQUIRED AT ALL ACCESS POINTS FOR INGRESS/EGRESS FROM OFF-SITE IMPERVIOUS SURFACES TO CONSTRUCTION SITE PERVIOUS AREAS THAT ARE USED BY VEHICULAR TRAFFIC OR CONSTRUCTION EQUIPMENT.

B) INLET PROTECTION: THIS BMP IS REQUIRED ON ALL EXISTING OR PROPOSED STORM SEWER INLETS IN THE VICINITY OF THE CONSTRUCTION SITE THAT MAY RECEIVE SITE RUNOFF. THE BMP MUST BE APPROPRIATE TO THE TYPE OF STORM INLET AND APPROPRIATE FOR THE GROUND SURFACE AT THE INLET.

C) INTERIM SITE STABILIZATION: THIS BMP IS REQUIRED TO PROVIDE A MEASURE FOR PREVENTING THE DISCHARGE OF SEDIMENT FROM CONSTRUCTION SITES WHERE OVERLOT GRADING OR OTHER SITE DISTURBANCE HAS OCCURRED. THIS BMP IS PARTICULARLY NECESSARY ON SITES WHERE CONSTRUCTION ACTIVITIES/DISTURBANCE WILL BE LIMITED TO SMALL AREAS OF THE PROJECT SITE. ACCEPTABLE BMPs INCLUDE:

- i. PRESERVING EXISTING VEGETATION
- ii. SEEDING AND PLANTING
- iii. MULCHING
- iv. MULCHING AND SEEDING
- v. TEMPORARY/PERMANENT RE-VEGETATION OPERATIONS
- vi. CHEMICAL SOIL STABILIZER APPLICATION (REQUIRES WMD APPROVAL)

D) WASTE MANAGEMENT/CONTAINMENT: THIS BMP REQUIRES THAT ALL CONSTRUCTION WASTES, FUELS, LUBRICANTS, CHEMICAL WASTES, TRASH, SANITARY WASTES, CONTAMINATED SOILS OR DEBRIS SHALL BE CONTAINED ON SITE, PROTECTED FROM CONTACT WITH PRECIPITATION OR SURFACE RUNOFF, PERIODICALLY REMOVED FROM THE CONSTRUCTION SITE, AND PROPERLY DISPOSED OF.

E) SPILL PREVENTION /CONTAINMENT: THIS BMP DEFINES THE MEASURES PROPOSED FOR PREVENTING, CONTROLLING OR CONTAINING SPILLS OF FUEL, LUBRICANTS, OR OTHER POLLUTANTS; AND PROTECTING POTENTIAL POLLUTANTS FROM CONTACT WITH PRECIPITATION OR RUNOFF.

F) CHUTE WASHOUT CONTAINMENT: WATER USED IN THE CLEANING OF CEMENT TRUCK DELIVERY CHUTES SHALL BE DISCHARGED INTO A PREDEFINED BERMED CONTAINMENT AREA ON THE JOB SITE. THE REQUIRED CONTAINMENT AREA IS TO BE BERMED TO THAT WASH WATER IS TOTALLY CONTAINED. WASH WATER DISCHARGED INTO THE CONTAINMENT AREA SHALL BE ALLOWED TO INFLUATE OR EVAPORATE FROM THE CONTAINMENT AREA AND PROPERLY DISPOSED OF.

- i. THE DIRECT OR INDIRECT DISCHARGE OF WATER CONTAINING WASTE CEMENT TO THE STORM SEWER SYSTEM IS PROHIBITED (SEC.56-102A, C; REVISED MUNICIPAL CODE, CITY AND COUNTY OF DENVER).

G) SWEEPING: THIS BMP REQUIRES THAT IMPERVIOUS SURFACES WHICH ARE ADJACENT TO OR CONTAINED WITHIN CONSTRUCTION SITES BE SWEEPED ON A DAILY BASIS OR AS NEEDED DURING THE DAY WHEN SEDIMENT AND OTHER MATERIALS ARE TRACKED OR DISCHARGED ON TO THEM. EITHER SWEEPING BY HAND OR USE OF STREET SWEEPERS IS ACCEPTABLE. STREET SWEEPERS USING WATER WHILE SWEEPING IS PREFERRED IN ORDER TO MINIMIZE DUST. FLUSHING OFF PAVED SURFACES WITH WATER IS PROHIBITED.

H) PERIMETER CONTROL: THIS BMP REQUIRES THAT A CONSTRUCTION SITE INSTALL A PERIMETER CONTROL MEASURE ALONG THE EDGE OF THE CONSTRUCTION SITE TO PREVENT, OR FILTER, THE DISCHARGE OF SURFACE RUNOFF FROM THE CONSTRUCTION SITE. THE TYPE OF PERIMETER CONTROL USED SHALL BE DETERMINED BASED ON-SITE CONDITIONS AND LOCATION. MAINTENANCE AND REPAIR OF THE CONTROL MEASURE SHALL OCCUR AS NEEDED, IN A TIMELY MANNER.

I) STOCK PILES: SOILS THAT WILL BE STOCKPILED FOR MORE THAN THIRTY (30) DAYS SHALL BE PROTECTED FROM WIND AND WATER EROSION WITHIN FOURTEEN (14) DAYS OF STOCKPILE CONSTRUCTION. STABILIZATION OF STOCKPILES LOCATED WITHIN 100 FEET OF RECEIVING WATERS, OR WITH SLOPES 3 TO 1 OR GREATER SHALL BE COMPLETED WITHIN SEVEN (7) DAYS FOLLOWING STOCKPILE CONSTRUCTION. STABILIZATION AND PROTECTION OF THE STOCKPILE MAY BE ACCOMPLISHED BY ANY OF THE FOLLOWING: MULCHING, TEMPORARY/PERMANENT REVEGETATION OPERATIONS, CHEMICAL SOIL STABILIZER APPLICATION (REQUIRES DENVER DOT APPROVAL), OR EROSION CONTROL MATTING/GEOTEXTILES. IF STOCKPILES ARE LOCATED WITHIN 100 FEET OF RECEIVING WATERS, A DRAINAGEWAY OR THE SITE PERIMETER, ADDITIONAL SEDIMENT CONTROLS SHALL BE REQUIRED.

J) SAW CUTTING OPERATIONS: THE CONTRACTOR SHALL PROTECT ALL STORM SEWER FACILITIES AND WATER QUALITY ENHANCEMENT FACILITIES FOR STORM RUNOFF NEED TO INSTALL THE DETENTION FACILITIES EARLY IN THE CONSTRUCTION BUILD-OUT OF THE SITE. PROJECTS THAT ARE USING UNDERGROUND DETENTION ARE REQUIRED TO INSTALL A PRETREATMENT STRUCTURE(S) OR SEDIMENTATION BASIN(S) AS A MEANS OF TREATING POTENTIALLY POLLUTED STORM WATER PRIOR TO ENTERING THE DETENTION STRUCTURE. USE OF THESE STRUCTURES IS REQUIRED FOR ENTRAPPING SEDIMENT AND CONSTRUCTION DEBRIS DURING THE ACTIVE CONSTRUCTION PHASE OF THE PROJECT. A NARRATIVE SECTION OF MANAGEMENT PLAN SHOULD ADDRESS OPERATION AND MAINTENANCE OF THE STRUCTURAL CONTROLS BEING USED AS AN ACTIVE CONSTRUCTION BMP.

6. EROSION AND SEDIMENT CONTROL 'BEST MANAGEMENT PRACTICES' SHALL BE MAINTAINED AND KEPT IN EFFECTIVE OPERATING CONDITION FOR THE DURATION OF THIS PROJECT. ALL NECESSARY MAINTENANCE AND REPAIR SHALL BE COMPLETED IMMEDIATELY UPON DISCOVERY OF ANY DEFICIENCY OR DEFECT.

SLACK LOOP STANDARDS PER FIBER SIZE: 864- 75', 432 - 75' ,ALL OTHER FIBER SIZES- 100', ALL AERIAL SLACK LOOPS TO BE 150' AT EVERY 1500' BORES TO BE AT 36" DEPTH TYPICAL, 48" DEPTH AT DOT CROSSINGS IF BORING UNDER TREES IN ROW BORE TO BE DEPTH OF 7' TO AVOID ROOTS



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ALL UTILITIES LOCATED BY VISUAL INSPECTION, TO BE VERIFIED BY LOCATES

EOT REPRESENTS EDGE OF TRAVEL NOT TRUE EDGE OF PAVEMENT

EOP REPRESENTS THE TRUE EDGE OF PAVEMENT

EOD REPRESENTS THE EDGE OF DIRT

HAND DIG TRENCHES 48” DEEP ACROSS DIRT ROAD



NED

DENVER, CO

MCImetro
ACCESS TRANSMISSION SERVICES, LLC

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC CABLE ROUTE
DENVER, CO NED PERMIT

DATE: 11/12/25

ENGINEER: ADB

DRAWN BY: TAZN

REVISIONS		

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SCALE

HORIZONTAL: 1: 50

VERTICAL: 1: 50

SHEET NO: P-1

PAGE NO: 7 OF 31

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LEGEND

	PROPOSED HANDHOLE		PROPOSED UNDERGROUND		WATER UTILITY FEATURE
	EXISTING HANDHOLE		PROPOSED AERIAL		FIRE HYDRANT
	EXISTING MANHOLE		EXISTING FIBER		WASTE WATER UTILITY FEATURE
	UTILITY POLE		OVERLASHING AERIAL		STORM WATER UTILITY FEATURE
	CELL SITE		WATER LINE		COMMUNICATIONS UTILITY FEATURE
	HUB SITE		STORM DRAIN LINE		RECLAIMED WATER UTILITY FEATURE
	SPLICE POINT		GAS LINE		TRAFFIC CONTROL UTILITY FEATURE
	SLACK LOOP		SEWER LINE		GAS UTILITY FEATURE
	BORE SLOT LOCATION		RECLAIMED WATER LINE		ELECTRICAL UTILITY FEATURE
	FIBER DISTRIBUTION HUB		COMMUNICATIONS LINE		MARKER POST
	FIBER DISTRIBUTION TERMINAL		ELECTRICAL LINE		PRIVATE ADDRESS
	TERMINATION PANEL		RIGHT OF WAY		STATE ROAD
	POTHOLE		EDGE OF PAVEMENT		FLOOD PLAIN
			BOUNDARY LINE		NWI WETLANDS

NOTES:

- RIGHT OF WAY DATA USED FOR PERMITTING PURPOSES ONLY.
- ABOVE GROUND UTILITY FEATURES HAVE BEEN FIELD VERIFIED. ALL SUBSURFACE UTILITIES SHOWN ARE APPROXIMATE. UTILITY LOCATES WILL BE PERFORMED PRIOR TO CONSTRUCTION.
- RIGHT OF WAY GIS DATA PROVIDED BY DENVER COUNTY.
- ALL BORES WILL BEGIN AND END AT A MINIMUM OF 8’ FROM EDGE OF PAVEMENT.
- MAINTAIN A 60” MINIMUM SEPARATION FROM ALL UTILITIES.
- DRIVEWAYS, TREES, AND CULVERTS WILL BE DIRECTIONAL BORED.
- UTILITY FACILITIES INSTALLED IN A DITCH LINE MUST MAINTAIN AT LEAST 30 INCHES OF COVER FROM THE CROWN OF THE CONDUIT TO THE BOTTOM OF THE DITCH LINE DESIGN DEPTH.

SLACK LOOP STANDARDS PER FIBER SIZE: 864- 75', 432 - 75' ,ALL OTHER FIBER SIZES- 100', ALL AERIAL SLACK LOOPS TO BE 150' AT EVERY 1500' BORES TO BE AT 36" DEPTH TYPICAL, 48" DEPTH AT DOT CROSSINGS IF BORING UNDER TREES IN ROW BORE TO BE DEPTH OF 7' TO AVOID ROOTS



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PROJECT:
DN1456_DN2002BA_61LAB_5349

NED

DENVER, CO

MCImetro
ACCESS TRANSMISSION SERVICES, LLC

OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE

DENVER, CO NED PERMIT

DATE: 11/12/25

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SCALE

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VERTICAL: 1: 50

SHEET NO: L-1

PAGE NO: 8 OF 31

WORK ORDER:
2509CDQU



1" = 50' (V) 1" = 10' SCALE
PROFILE VIEW ONLY
START STA: 0+00, END STA: 2+62

LEGEND:

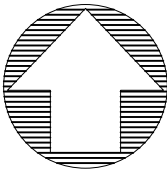
- | | | | |
|--|------------------|--|-------------------|
| | PROPOSED GRADE | | PROPOSED HANDHOLE |
| | EXISTING GRADE | | EXISTING HANDHOLE |
| | PROPOSED CONDUIT | | BORE PIT |
| | EXISTING CONDUIT | | |

SEE SHEET C-102.1 FOR CONTINUED
PROPOSED FIBER PATH @ STA: 2+62

NOTE: P&P TO BE ADDED WHEN
POTHOLING IS COMPLETED



PROJECT:
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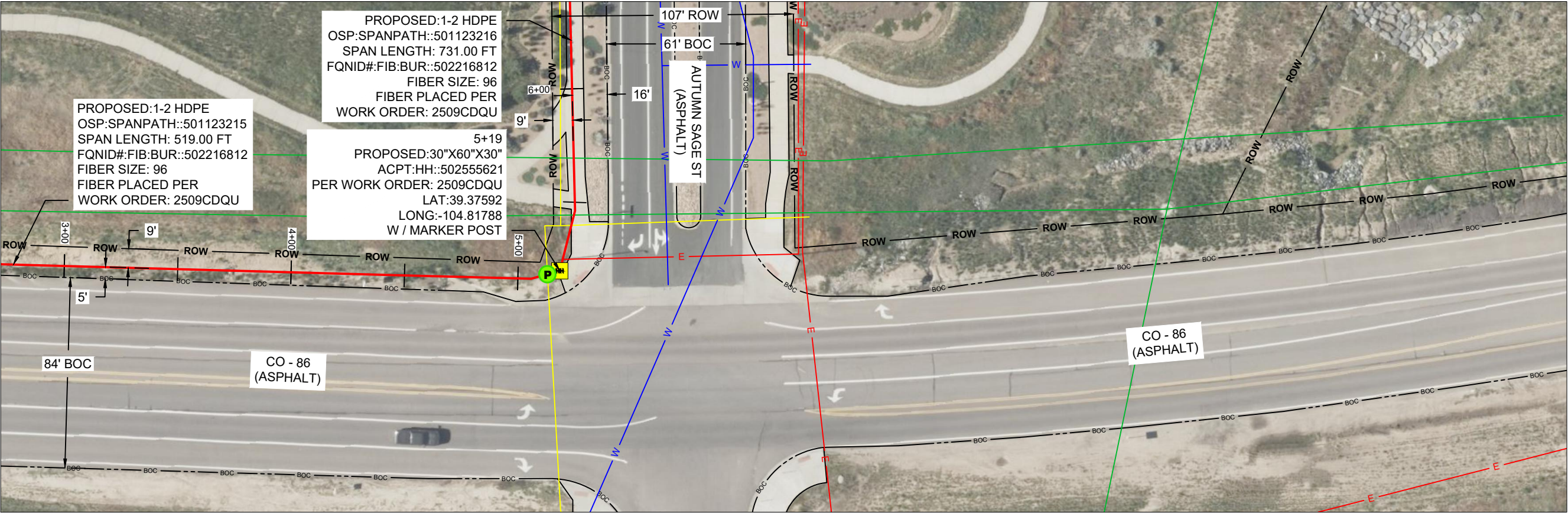
SCALE
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 50'
SHEET NO: C-101
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SLACK LOOP STANDARDS PER FIBER SIZE: 864- 75', 432 - 75' ,ALL OTHER
FIBER SIZES- 100', ALL AERIAL SLACK LOOPS TO BE 150' AT EVERY 1500'
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PROFILE VIEW ONLY
START STA: 2+62, END STA: 5+19

- LEGEND:
- PROPOSED GRADE
 - EXISTING GRADE
 - PROPOSED CONDUIT
 - EXISTING CONDUIT
 - PROPOSED HANDHOLE
 - EXISTING HANDHOLE
 - BORE PIT

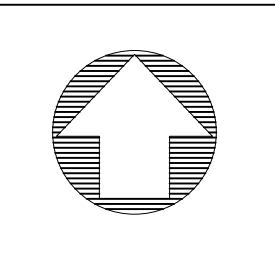
SEE SHEET C-102.2 FOR CONTINUED
PROPOSED FIBER PATH @ STA: 5+19

NOTE: P&P TO BE ADDED WHEN
POTHOLING IS COMPLETED



PROJECT:
DN1456_DN2002BA_61LAB_5349

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DENVER, CO



MCI metro ACCESS TRANSMISSION SERVICES, LLC	
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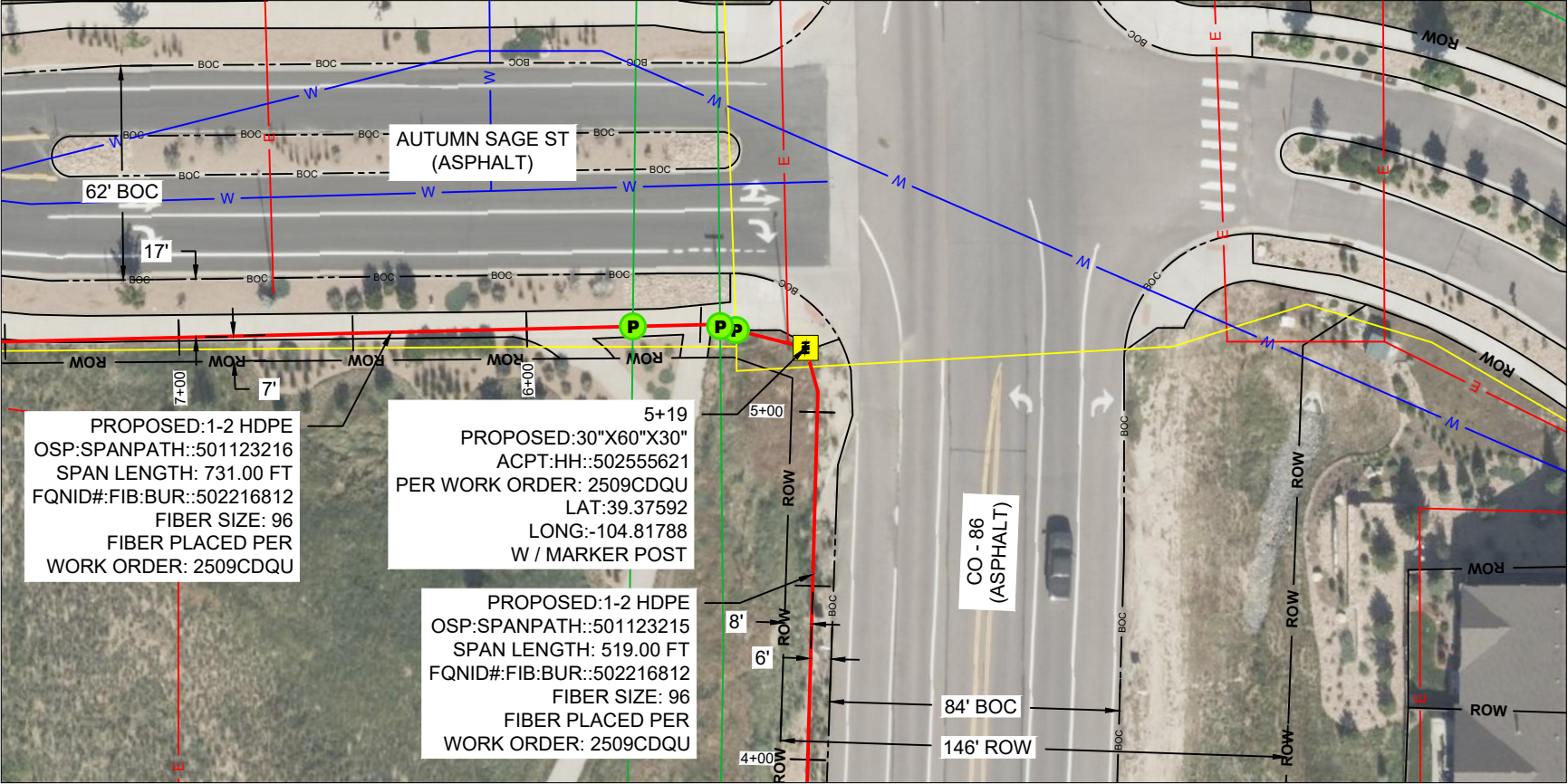
SCALE
HORIZONTAL: 1" = 50'
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SHEET NO: C-102.1
PAGE NO: 10 OF 31
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PROFILE VIEW ONLY
START STA: 5+19, END STA: 7+51

- LEGEND:
- | | | | |
|---|------------------|---|-------------------|
| — | PROPOSED GRADE | □ | PROPOSED HANDHOLE |
| — | EXISTING GRADE | □ | EXISTING HANDHOLE |
| — | PROPOSED CONDUIT | □ | BORE PIT |
| — | EXISTING CONDUIT | | |

SEE SHEET C-103 FOR CONTINUED
PROPOSED FIBER PATH @ STA: 7+51

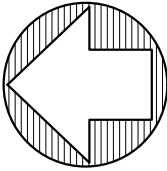
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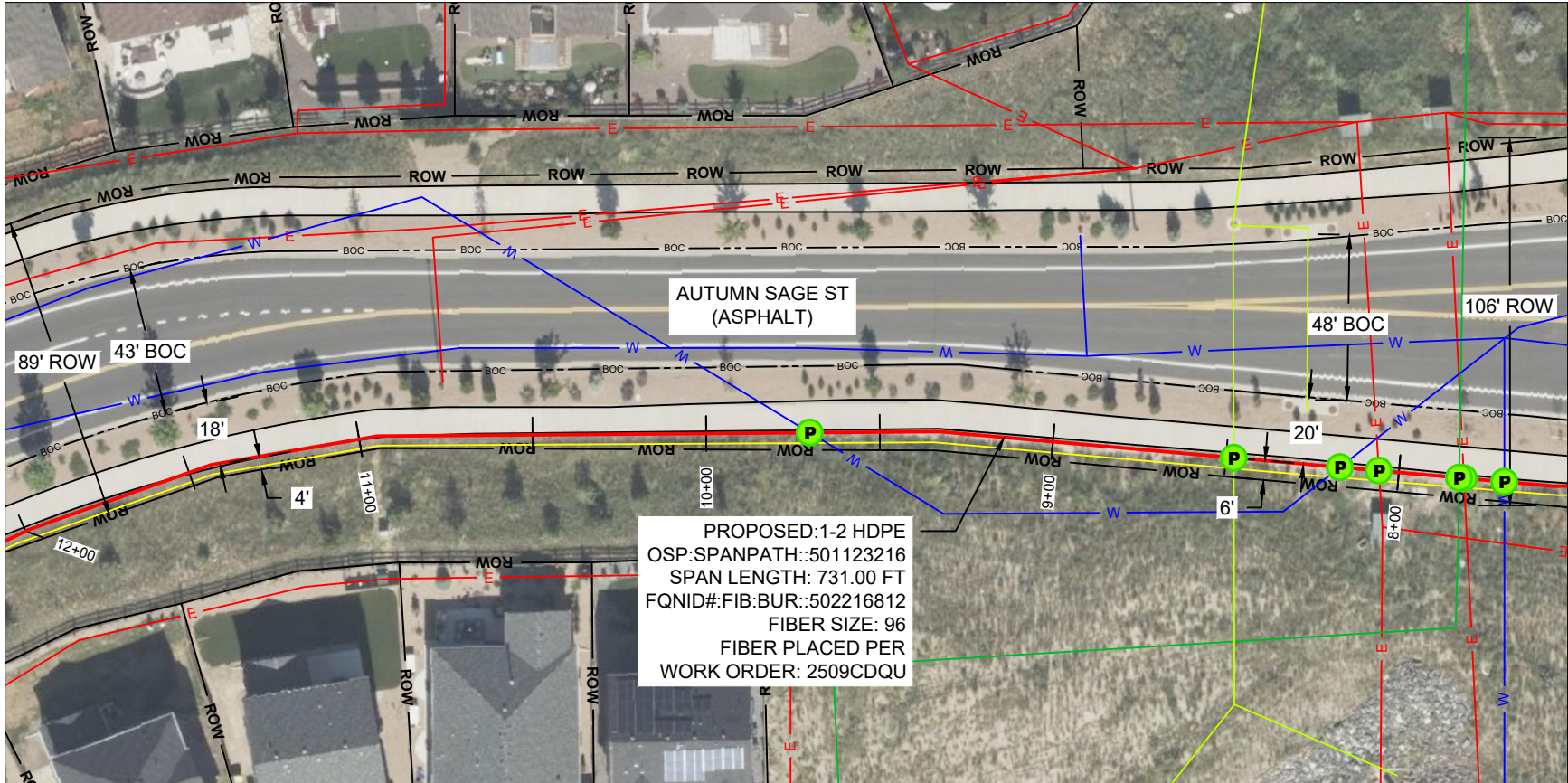
SCALE
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 50'
SHEET NO: C-102.2
PAGE NO: 11 OF 31
WORK ORDER:
2509CDQU

SLACK LOOP STANDARDS PER FIBER SIZE: 864- 75', 432 - 75' ,ALL OTHER
FIBER SIZES- 100', ALL AERIAL SLACK LOOPS TO BE 150' AT EVERY 1500'
BORES TO BE AT 36" DEPTH TYPICAL, 48" DEPTH AT DOT CROSSINGS
IF BORING UNDER TREES IN ROW BORE TO BE DEPTH OF 7' TO AVOID
ROOTS



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1" = 50' (V) 1" - 10': SCALE
PROFILE VIEW ONLY
START STA: 7+51, END STA: 12+06

- LEGEND:
- | | | | |
|---|------------------|---|-------------------|
| — | PROPOSED GRADE | □ | PROPOSED HANDHOLE |
| — | EXISTING GRADE | □ | EXISTING HANDHOLE |
| — | PROPOSED CONDUIT | □ | BORE PIT |
| — | EXISTING CONDUIT | | |

SEE SHEET C-104 FOR CONTINUED
PROPOSED FIBER PATH @ STA: 12+06

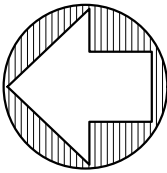
NOTE: P&P TO BE ADDED WHEN
POTHOLING IS COMPLETED



PROJECT:
DN1456_DN2002BA_61LAB_5349

NED

DENVER, CO



MCImetro
ACCESS TRANSMISSION SERVICES, LLC
OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
DENVER, CO NED PERMIT

DATE: 11/12/25

ENGINEER: ADB

DRAWN BY: TAZN

REVISIONS		

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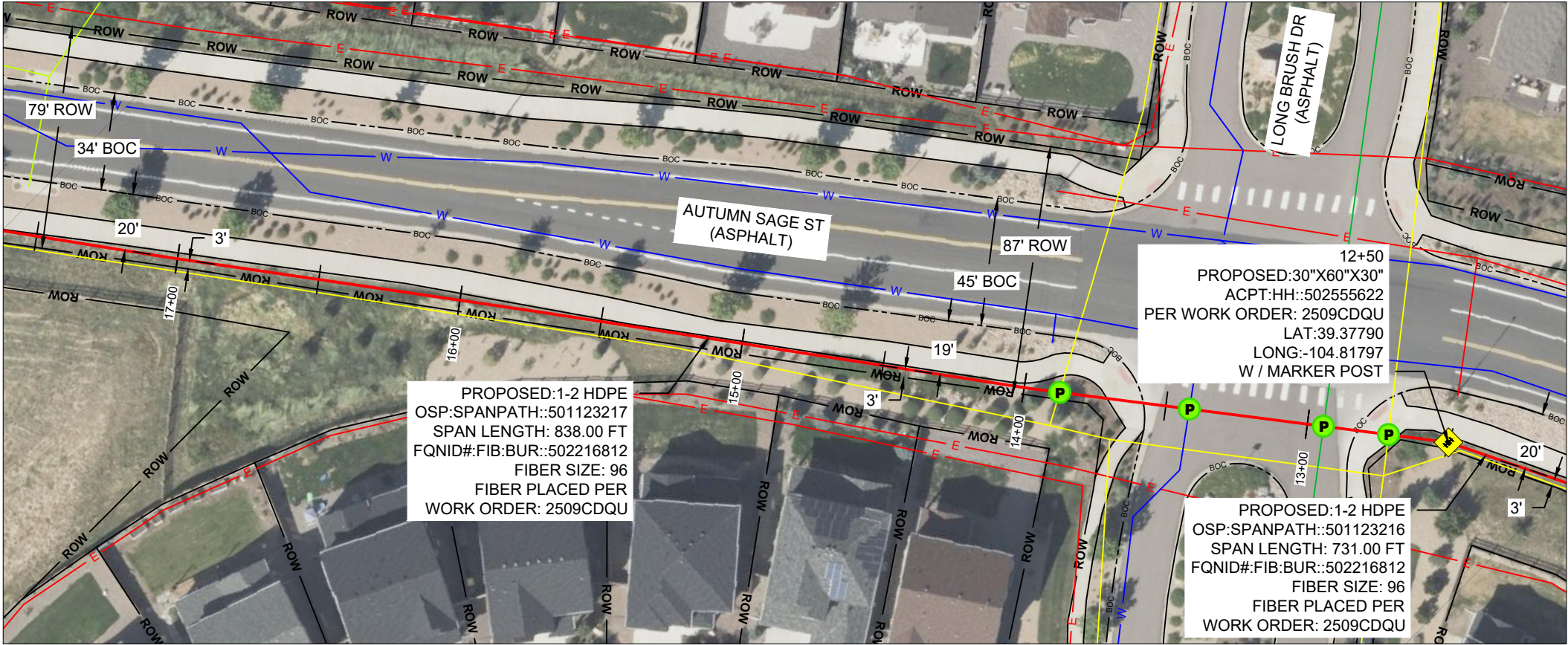
SCALE
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 50'
SHEET NO: C-103
PAGE NO: 12 OF 31
WORK ORDER: 2509CDQU

SLACK LOOP STANDARDS PER FIBER SIZE: 864- 75', 432 - 75', ALL OTHER
FIBER SIZES- 100', ALL AERIAL SLACK LOOPS TO BE 150' AT EVERY 1500'
BORES TO BE AT 36" DEPTH TYPICAL, 48" DEPTH AT DOT CROSSINGS
IF BORING UNDER TREES IN ROW BORE TO BE DEPTH OF 7' TO AVOID
ROOTS



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1" = 50' (V) 1" - 10': SCALE
PROFILE VIEW ONLY
START STA: 12+06, END STA: 17+62

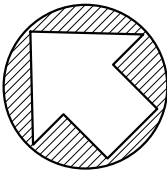
- LEGEND:
- | | | | |
|--|------------------|--|-------------------|
| | PROPOSED GRADE | | PROPOSED HANDHOLE |
| | EXISTING GRADE | | EXISTING HANDHOLE |
| | PROPOSED CONDUIT | | BORE PIT |
| | EXISTING CONDUIT | | |

SEE SHEET C-105.1 FOR CONTINUED
PROPOSED FIBER PATH @ STA: 17+62

NOTE: P&P TO BE ADDED WHEN
POTHOLING IS COMPLETED



PROJECT:
DN1456_DN2002BA_61LAB_5349
NED
DENVER, CO



MCI metro ACCESS TRANSMISSION SERVICES, LLC	
OUTSIDE PLANT CONSTRUCTION TITLE: FIBER OPTIC CABLE ROUTE DENVER, CO NED PERMIT	

DATE: 11/12/25
ENGINEER: ADB
DRAWN BY: TAZN

REVISIONS		

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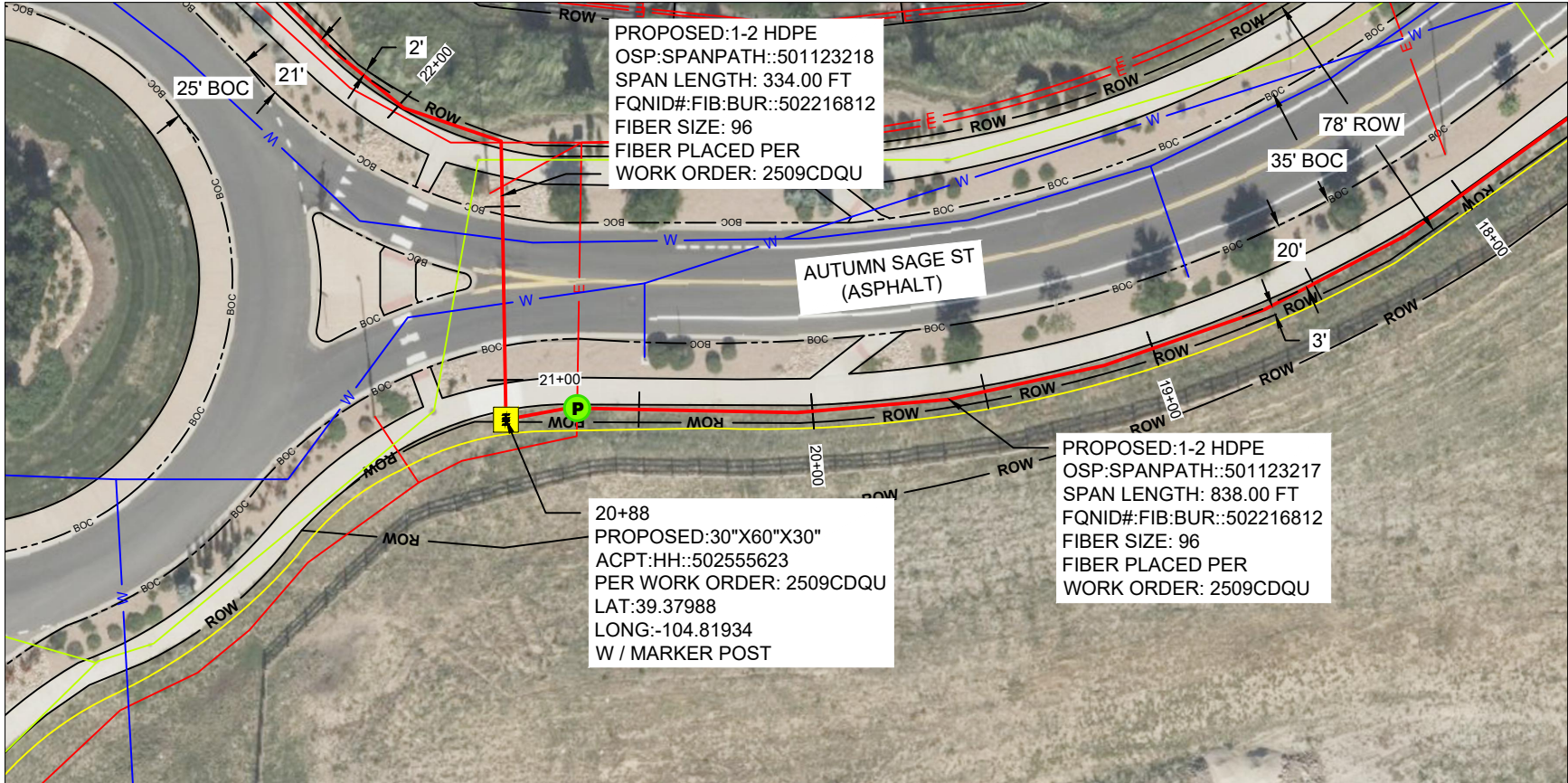
SCALE
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 50'
SHEET NO: C-104
PAGE NO: 13 OF 31
WORK ORDER: 2509CDQU

SLACK LOOP STANDARDS PER FIBER SIZE: 864- 75', 432 - 75', ALL OTHER
FIBER SIZES- 100', ALL AERIAL SLACK LOOPS TO BE 150' AT EVERY 1500'
BORES TO BE AT 36" DEPTH TYPICAL, 48" DEPTH AT DOT CROSSINGS
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1" = 50' (V) 1" - 10': SCALE
PROFILE VIEW ONLY
START STA: 17+62, END STA: 20+88

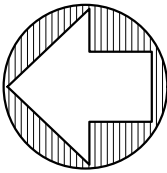
- LEGEND:
- | | | | |
|--|------------------|--|-------------------|
| | PROPOSED GRADE | | PROPOSED HANDHOLE |
| | EXISTING GRADE | | EXISTING HANDHOLE |
| | PROPOSED CONDUIT | | BORE PIT |
| | EXISTING CONDUIT | | |

SEE SHEET C-105.2 FOR CONTINUED
PROPOSED FIBER PATH @ STA: 20+88

NOTE: P&P TO BE ADDED WHEN
POTHOLING IS COMPLETED



PROJECT:
DN1456_DN2002BA_61LAB_5349
NED
DENVER, CO



MCI metro ACCESS TRANSMISSION SERVICES, LLC	
OUTSIDE PLANT CONSTRUCTION	
TITLE: FIBER OPTIC CABLE ROUTE	
DENVER, CO NED PERMIT	

DATE: 11/12/25
ENGINEER: ADB
DRAWN BY: TAZN

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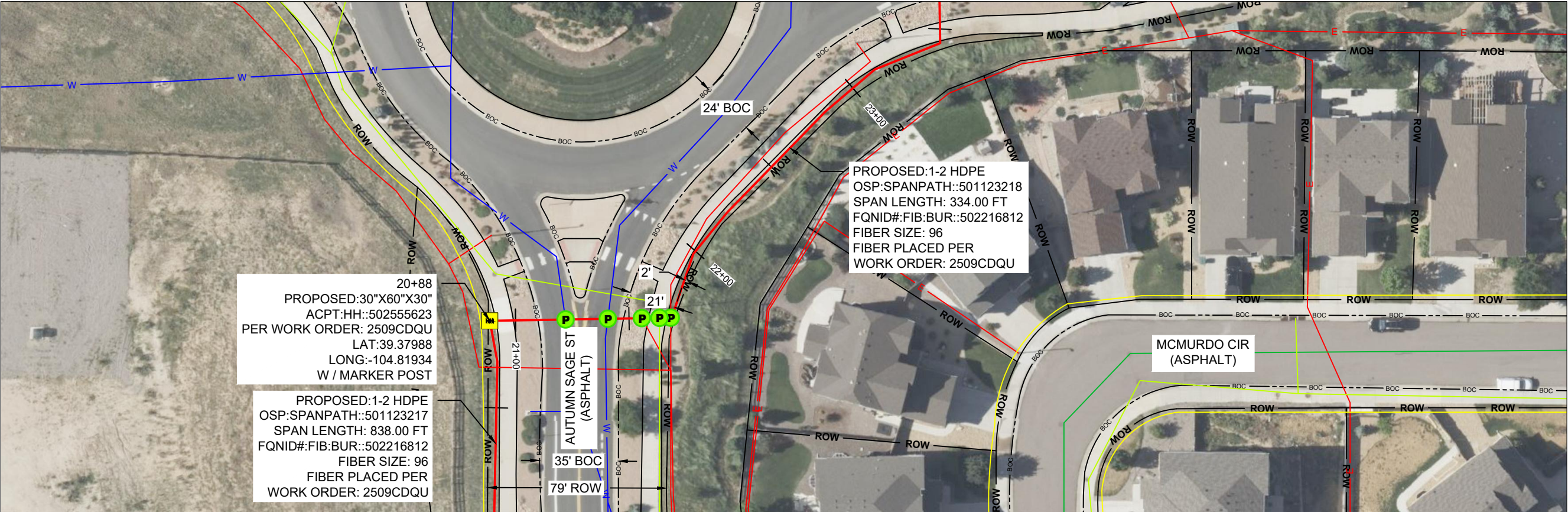
SCALE
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 50'
SHEET NO: C-105.1
PAGE NO: 14 OF 31
WORK ORDER:
2509CDQU

SLACK LOOP STANDARDS PER FIBER SIZE: 864- 75', 432 - 75', ALL OTHER
FIBER SIZES- 100', ALL AERIAL SLACK LOOPS TO BE 150' AT EVERY 1500'
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ROOTS



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1" = 50' (V) 1" - 10': SCALE
PROFILE VIEW ONLY
START STA: 20+88, END STA: 23+43

- LEGEND:
- PROPOSED GRADE
 - EXISTING GRADE
 - PROPOSED CONDUIT
 - EXISTING CONDUIT
 - PROPOSED HANDHOLE
 - EXISTING HANDHOLE
 - BORE PIT

SEE SHEET C-106.1 FOR CONTINUED
PROPOSED FIBER PATH @ STA: 23+43

NOTE: P&P TO BE ADDED WHEN
POTHOLING IS COMPLETED

SLACK LOOP STANDARDS PER FIBER SIZE: 864- 75', 432 - 75', ALL OTHER
FIBER SIZES- 100', ALL AERIAL SLACK LOOPS TO BE 150' AT EVERY 1500'
BORES TO BE AT 36" DEPTH TYPICAL, 48" DEPTH AT DOT CROSSINGS
IF BORING UNDER TREES IN ROW BORE TO BE DEPTH OF 7' TO AVOID
ROOTS

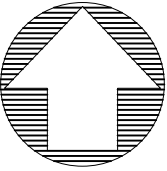


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PROJECT:
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NED
DENVER, CO



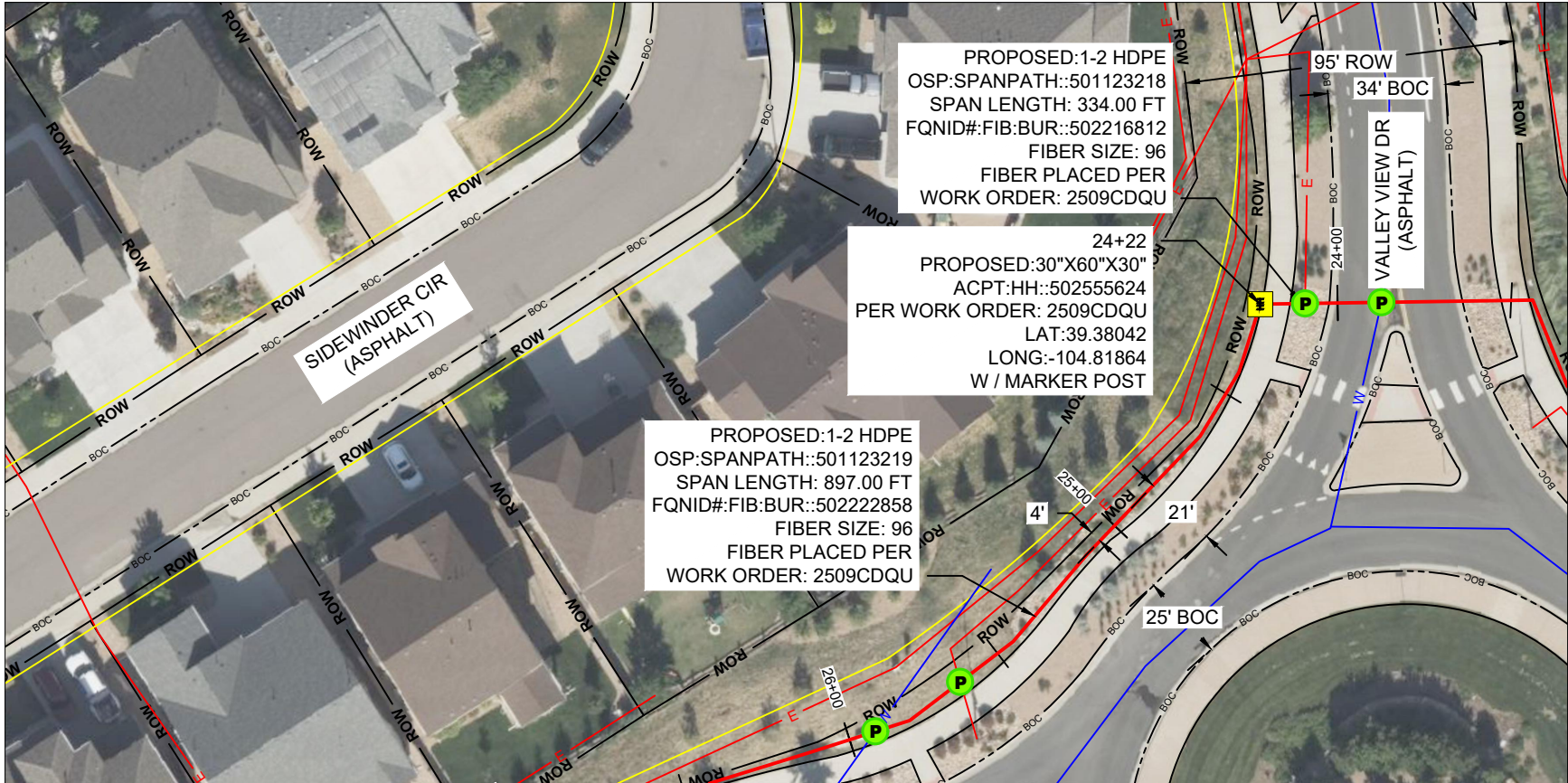
MCI metro
ACCESS TRANSMISSION SERVICES, LLC
OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
DENVER, CO NED PERMIT

DATE: 11/12/25
ENGINEER: ADB
DRAWN BY: TAZN

REVISIONS		

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SCALE
HORIZONTAL: 1: 50
VERTICAL: 1: 50
SHEET NO: C-105.2
PAGE NO: 15 OF 31
WORK ORDER:
2509CDQU



1" = 50' (V) 1" - 10': SCALE
PROFILE VIEW ONLY
START STA: 23+43, END STA: 26+41

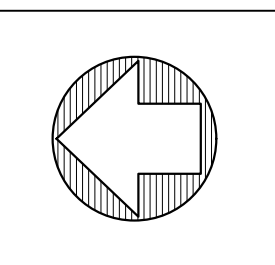
- LEGEND:
- | | | | |
|--|------------------|--|-------------------|
| | PROPOSED GRADE | | PROPOSED HANDHOLE |
| | EXISTING GRADE | | EXISTING HANDHOLE |
| | PROPOSED CONDUIT | | BORE PIT |
| | EXISTING CONDUIT | | |

SEE SHEET C-106.2 FOR CONTINUED
PROPOSED FIBER PATH @ STA: 26+41

NOTE: P&P TO BE ADDED WHEN
POTHOLING IS COMPLETED



PROJECT:
DN1456_DN2002BA_61LAB_5349
NED
DENVER, CO



MCImetro ACCESS TRANSMISSION SERVICES, LLC	
OUTSIDE PLANT CONSTRUCTION	
TITLE: FIBER OPTIC CABLE ROUTE	
DENVER, CO NED PERMIT	

DATE: 11/12/25
ENGINEER: ADB
DRAWN BY: TAZN

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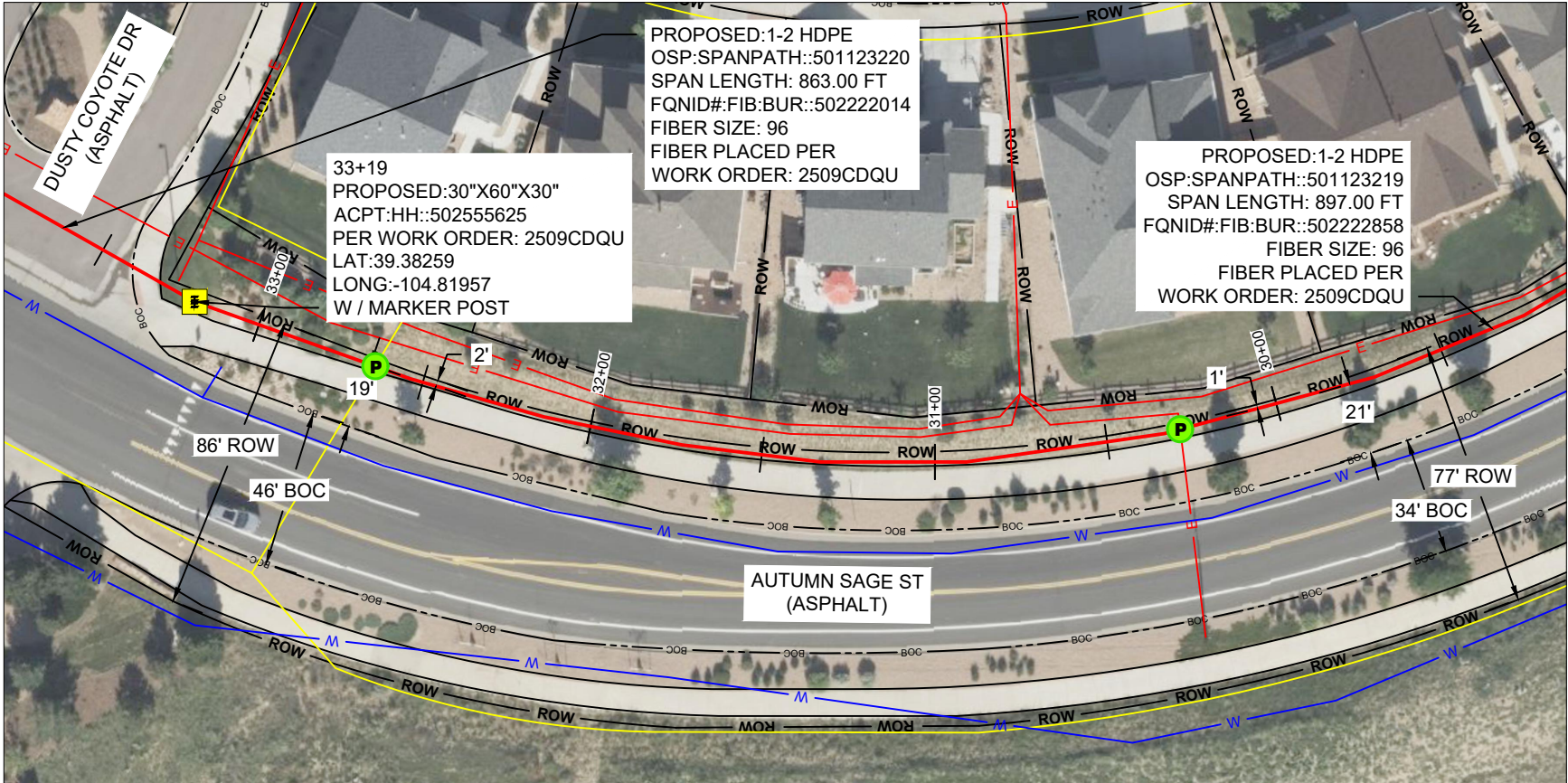
SCALE
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 50'
SHEET NO: C-106.1
PAGE NO: 16 OF 31
WORK ORDER: 2509CDQU

SLACK LOOP STANDARDS PER FIBER SIZE: 864- 75', 432 - 75' ,ALL OTHER
FIBER SIZES- 100', ALL AERIAL SLACK LOOPS TO BE 150' AT EVERY 1500'
BORES TO BE AT 36" DEPTH TYPICAL, 48" DEPTH AT DOT CROSSINGS
IF BORING UNDER TREES IN ROW BORE TO BE DEPTH OF 7' TO AVOID
ROOTS



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1" = 50' (V) 1" - 10': SCALE
PROFILE VIEW ONLY
START STA: 29+08, END STA: 33+83

LEGEND:

- | | | | |
|---|------------------|---|-------------------|
| — | PROPOSED GRADE | □ | PROPOSED HANDHOLE |
| — | EXISTING GRADE | □ | EXISTING HANDHOLE |
| — | PROPOSED CONDUIT | □ | BORE PIT |
| — | EXISTING CONDUIT | | |

SEE SHEET C-108 FOR CONTINUED
PROPOSED FIBER PATH @ STA: 33+83

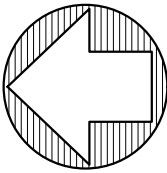
NOTE: P&P TO BE ADDED WHEN
POTHOLING IS COMPLETED



PROJECT:
DN1456_DN2002BA_61LAB_5349

NED

DENVER, CO



MCImetro
ACCESS TRANSMISSION SERVICES, LLC

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC CABLE ROUTE

DENVER, CO NED PERMIT

DATE: 11/12/25

ENGINEER: ADB

DRAWN BY: TAZN

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SCALE

HORIZONTAL: 1" = 50'

VERTICAL: 1" = 50'

SHEET NO: C-107

PAGE NO: 18 OF 31

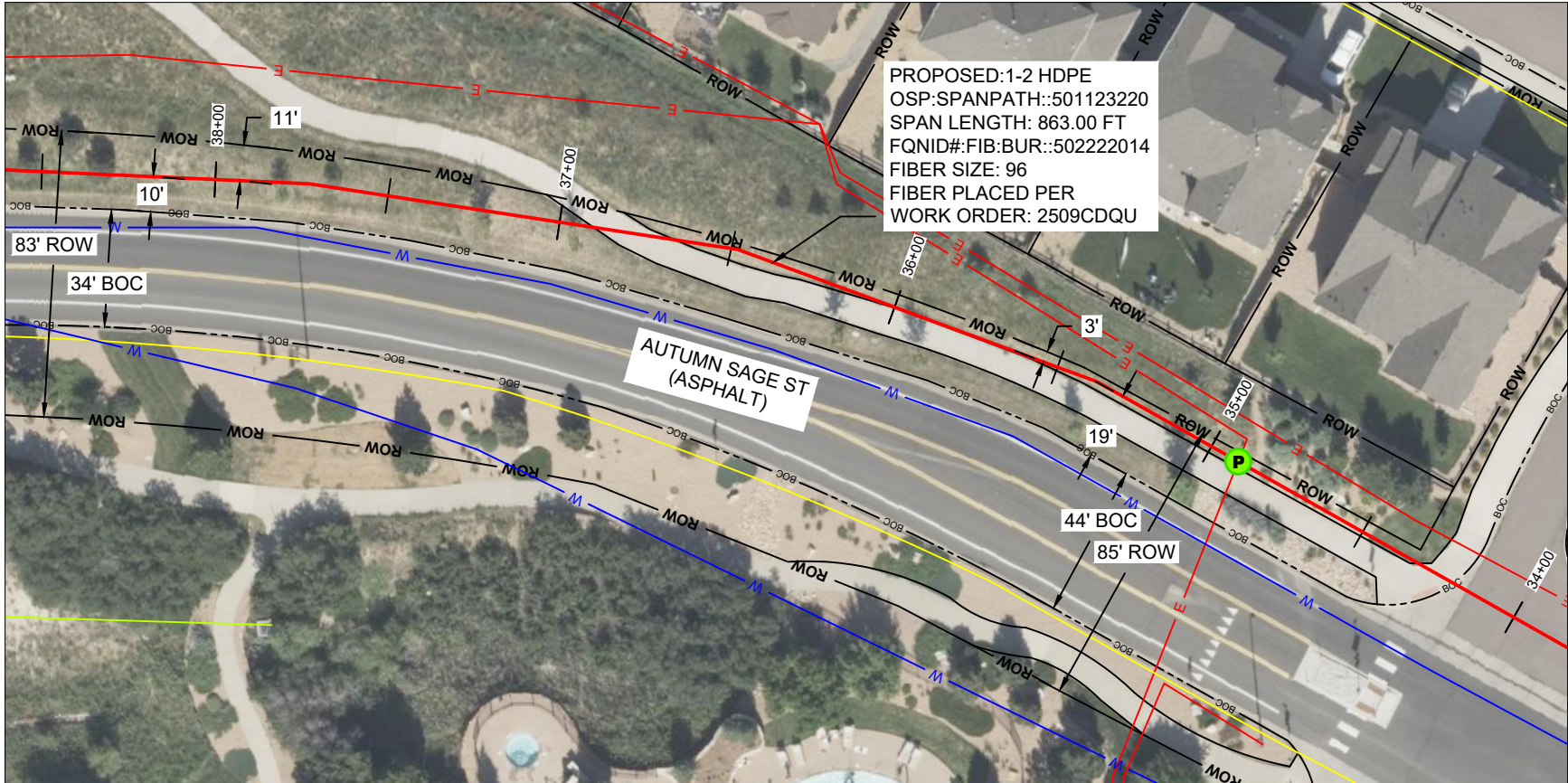
WORK ORDER:
2509CDQU

SLACK LOOP STANDARDS PER FIBER SIZE: 864- 75', 432 - 75', ALL OTHER
FIBER SIZES- 100', ALL AERIAL SLACK LOOPS TO BE 150' AT EVERY 1500'
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1" = 50' (V) 1" - 10': SCALE
PROFILE VIEW ONLY
START STA: 33+83, END STA: 38+60

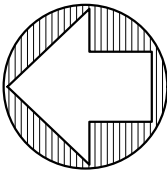
- LEGEND:
- | | | | |
|---|------------------|---|-------------------|
| — | PROPOSED GRADE | □ | PROPOSED HANDHOLE |
| — | EXISTING GRADE | □ | EXISTING HANDHOLE |
| — | PROPOSED CONDUIT | □ | BORE PIT |
| — | EXISTING CONDUIT | | |

SEE SHEET C-109 FOR CONTINUED
PROPOSED FIBER PATH @ STA: 38+60

NOTE: P&P TO BE ADDED WHEN
POTHOLING IS COMPLETED



PROJECT:
DN1456_DN2002BA_61LAB_5349
NED
DENVER, CO



MCImetro
ACCESS TRANSMISSION SERVICES, LLC
OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
DENVER, CO NED PERMIT

DATE: 11/12/25
ENGINEER: ADB
DRAWN BY: TAZN

REVISIONS		

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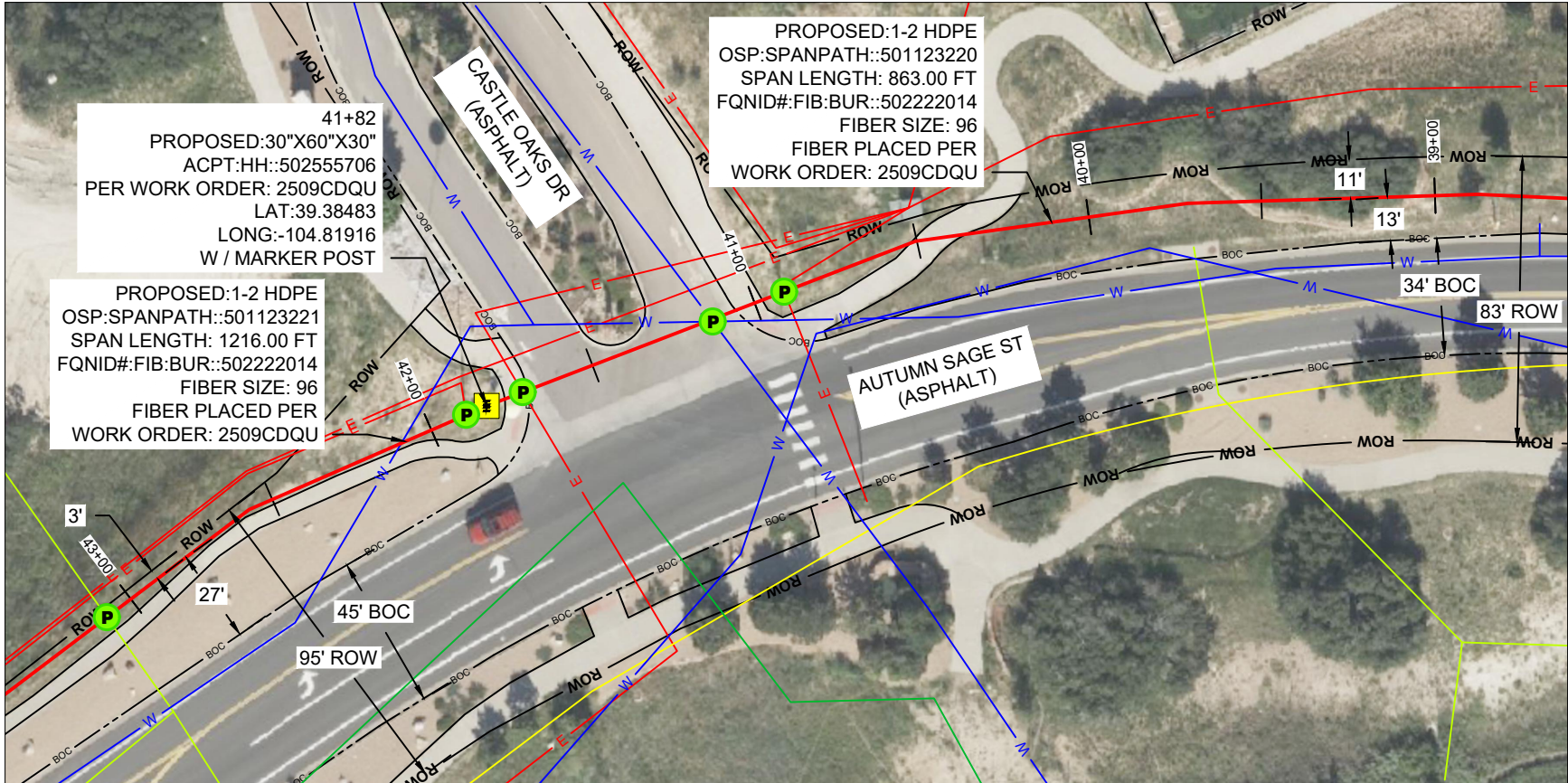
SCALE
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 50'
SHEET NO: C-108
PAGE NO: 19 OF 31
WORK ORDER: 2509CDQU

SLACK LOOP STANDARDS PER FIBER SIZE: 864- 75', 432 - 75', ALL OTHER
FIBER SIZES- 100', ALL AERIAL SLACK LOOPS TO BE 150' AT EVERY 1500'
BORES TO BE AT 36" DEPTH TYPICAL, 48" DEPTH AT DOT CROSSINGS
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1" = 50' (V) 1" - 10': SCALE
PROFILE VIEW ONLY
START STA: 38+60, END STA: 43+45

- LEGEND:
- | | | | |
|---|------------------|---|-------------------|
| — | PROPOSED GRADE | □ | PROPOSED HANDHOLE |
| — | EXISTING GRADE | □ | EXISTING HANDHOLE |
| — | PROPOSED CONDUIT | □ | BORE PIT |
| — | EXISTING CONDUIT | | |

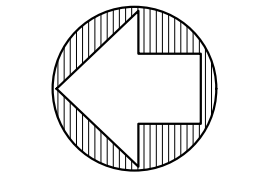
SEE SHEET C-110 FOR CONTINUED
PROPOSED FIBER PATH @ STA: 43+45

NOTE: P&P TO BE ADDED WHEN
POTHOLING IS COMPLETED



PROJECT:
DN1456_DN2002BA_61LAB_5349

NED
DENVER, CO



MCImetro ACCESS TRANSMISSION SERVICES, LLC	
OUTSIDE PLANT CONSTRUCTION	
TITLE: FIBER OPTIC CABLE ROUTE	
DENVER, CO NED PERMIT	

DATE: 11/12/25

ENGINEER: ADB

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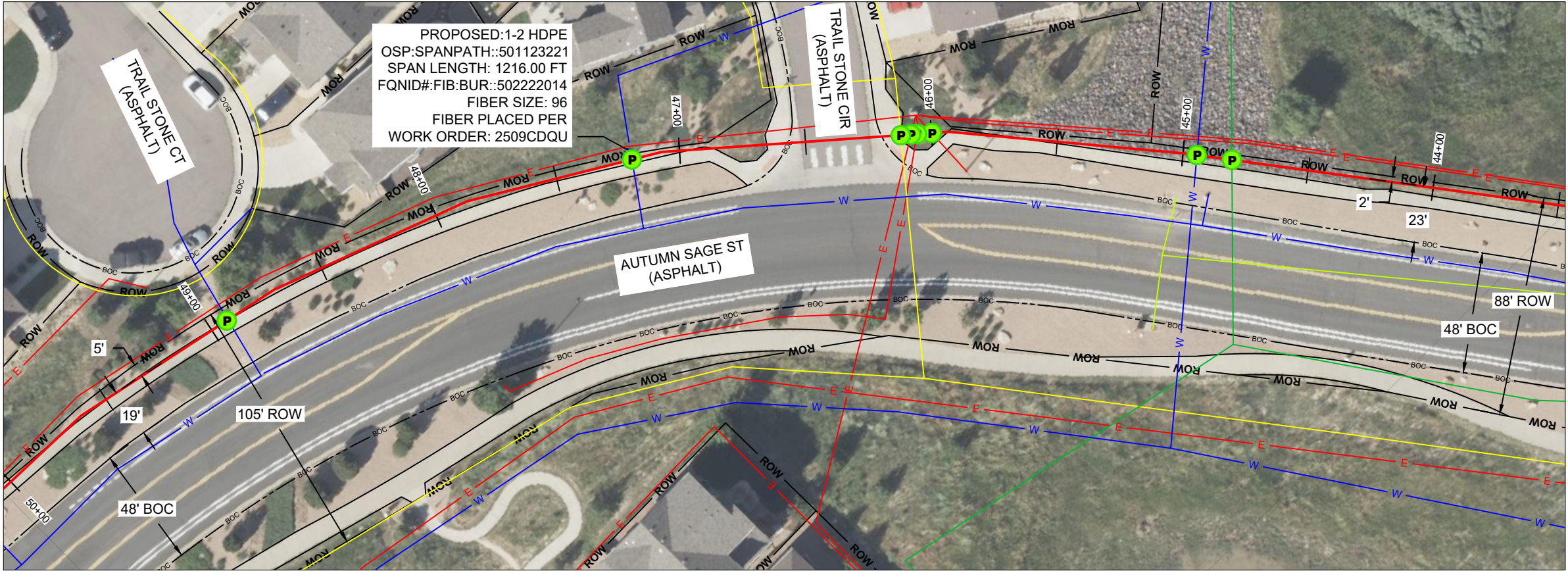
SCALE
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 50'
SHEET NO: C-109
PAGE NO: 20 OF 31
WORK ORDER: 2509CDQU

SLACK LOOP STANDARDS PER FIBER SIZE: 864- 75', 432 - 75', ALL OTHER
FIBER SIZES- 100', ALL AERIAL SLACK LOOPS TO BE 150' AT EVERY 1500'
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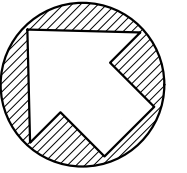




PROJECT:
DN1456_DN2002BA_61LAB_5349

NED

DENVER, CO



MCImetro
ACCESS TRANSMISSION SERVICES, LLC

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC CABLE ROUTE

DENVER, CO NED PERMIT

DATE: 11/12/25

ENGINEER: ADB

DRAWN BY: TAZN

REVISIONS

NO.	DESCRIPTION	DATE

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SCALE

HORIZONTAL: 1" = 50'

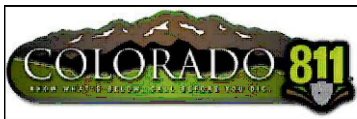
VERTICAL: 1" = 50'

SHEET NO: C-110

PAGE NO: 21 OF 31

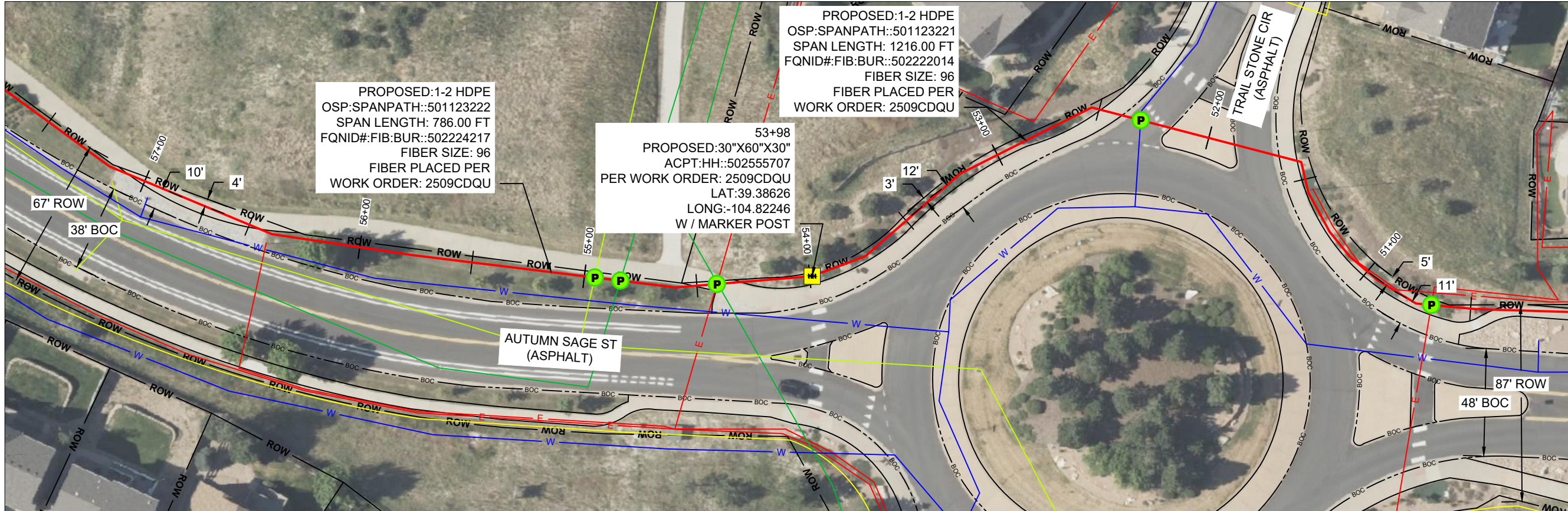
WORK ORDER:
2509CDQU

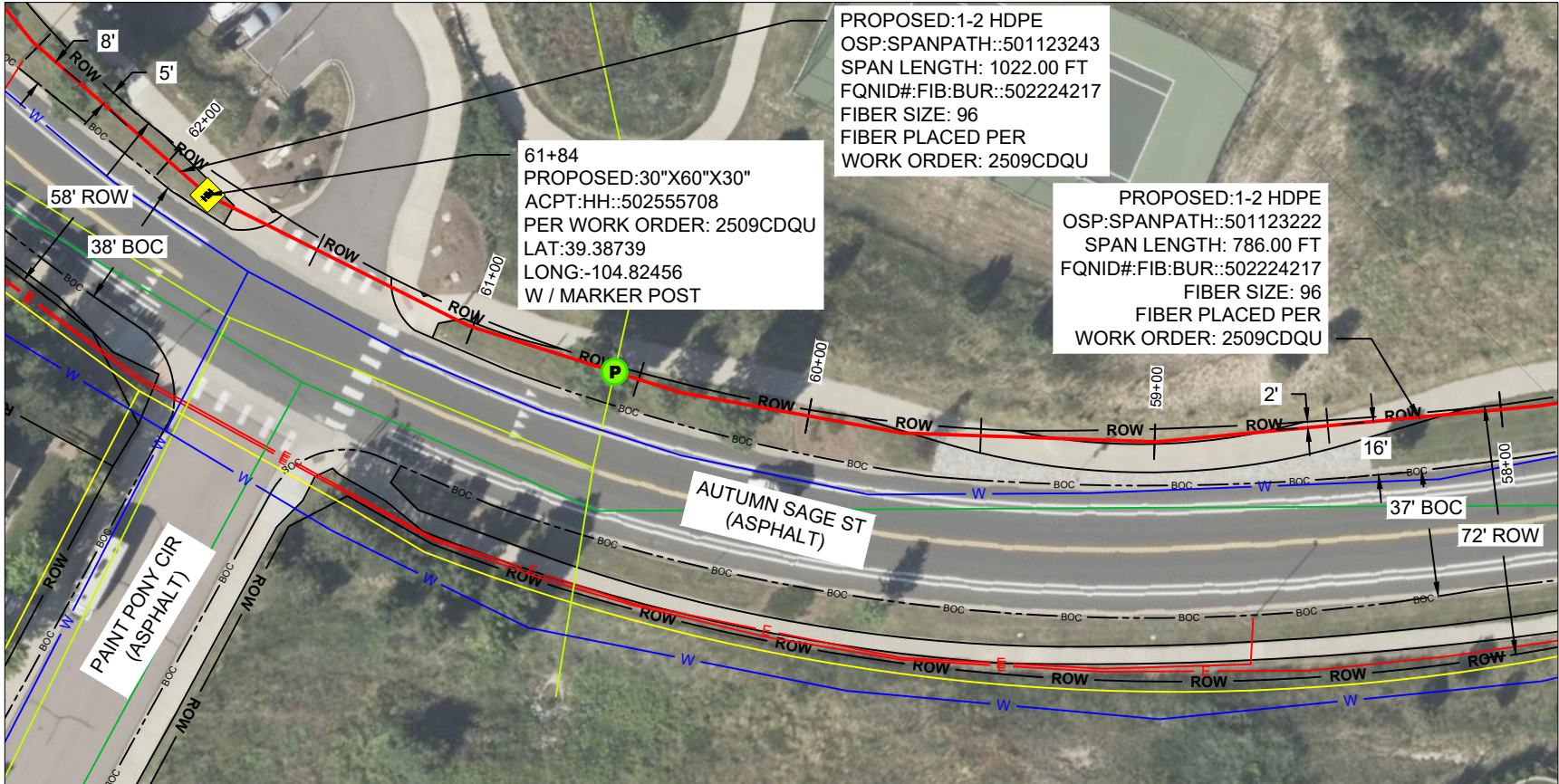
SLACK LOOP STANDARDS PER FIBER SIZE: 864- 75', 432 - 75', ALL OTHER
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1" = 50' (V) 1" - 10': SCALE
PROFILE VIEW ONLY
START STA: 57+54, END STA: 62+64

- LEGEND:
- | | | | |
|---|------------------|---|-------------------|
| — | PROPOSED GRADE | □ | PROPOSED HANDHOLE |
| — | EXISTING GRADE | □ | EXISTING HANDHOLE |
| — | PROPOSED CONDUIT | □ | BORE PIT |
| — | EXISTING CONDUIT | | |

SEE SHEET C-113.1 FOR CONTINUED
PROPOSED FIBER PATH @ STA: 62+64

NOTE: P&P TO BE ADDED WHEN
POTHOLES ARE COMPLETED

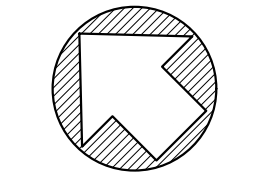
SLACK LOOP STANDARDS PER FIBER SIZE: 864- 75', 432 - 75' ,ALL OTHER
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NED
DENVER, CO



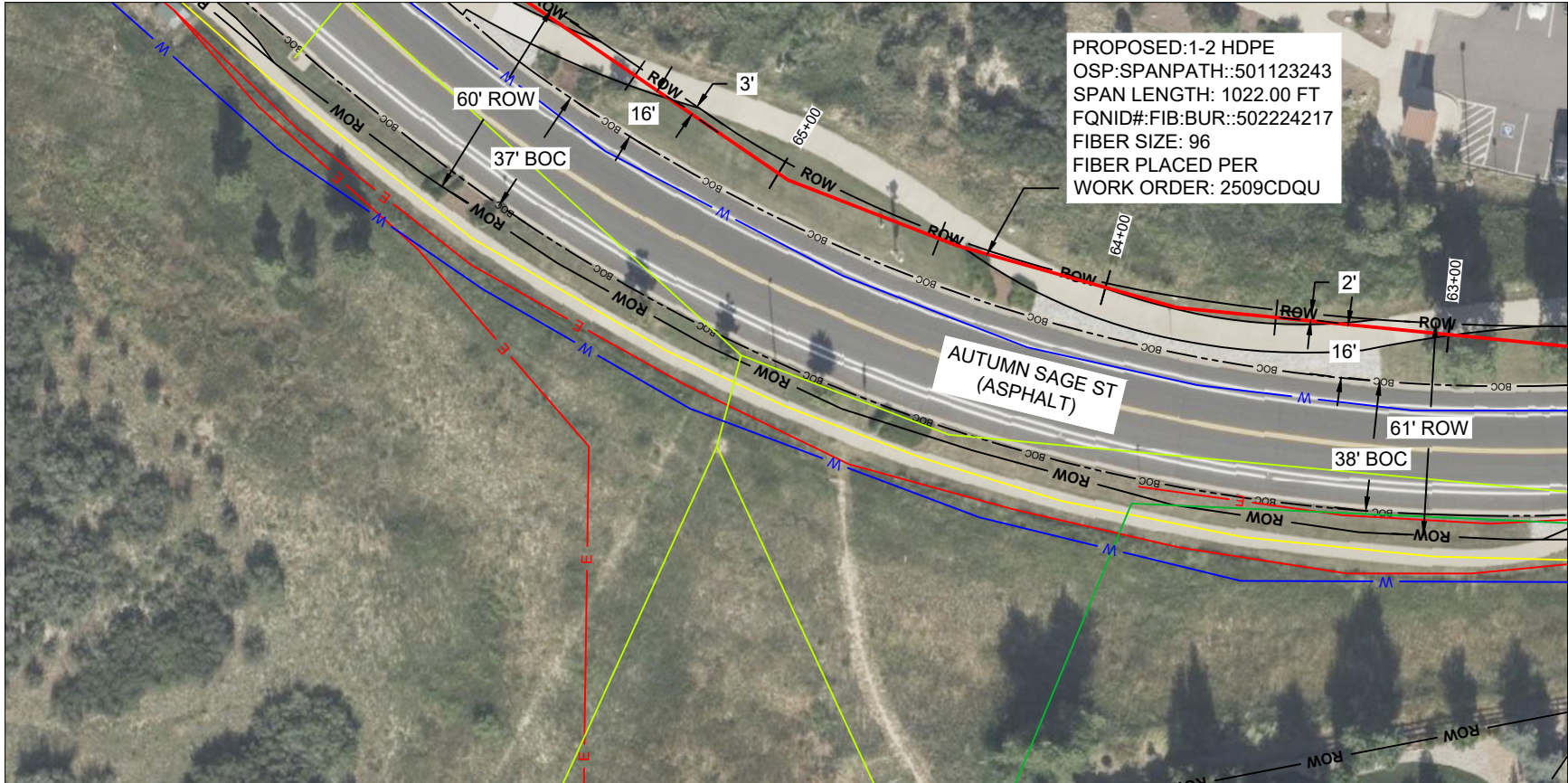
MCI metro ACCESS TRANSMISSION SERVICES, LLC	
OUTSIDE PLANT CONSTRUCTION	
TITLE: FIBER OPTIC CABLE ROUTE	
DENVER, CO NED PERMIT	

DATE: 11/12/25
ENGINEER: ADB
DRAWN BY: TAZN

REVISIONS		

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SCALE
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 50'
SHEET NO: C-112
PAGE NO: 23 OF 31
WORK ORDER: 2509CDQU



1" = 50' (V) 1" = 10': SCALE
PROFILE VIEW ONLY
START STA: 62+64, END STA: 65+87

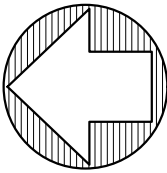
- LEGEND:
- | | | | |
|---|------------------|---|-------------------|
| — | PROPOSED GRADE | □ | PROPOSED HANDHOLE |
| — | EXISTING GRADE | □ | EXISTING HANDHOLE |
| — | PROPOSED CONDUIT | □ | BORE PIT |
| — | EXISTING CONDUIT | | |

SEE SHEET C-113.2 FOR CONTINUED
PROPOSED FIBER PATH @ STA: 65+87

NOTE: P&P TO BE ADDED WHEN
POTHOLING IS COMPLETED



PROJECT:
DN1456_DN2002BA_61LAB_5349
NED
DENVER, CO



MCI metro ACCESS TRANSMISSION SERVICES, LLC	
OUTSIDE PLANT CONSTRUCTION	
TITLE: FIBER OPTIC CABLE ROUTE	
DENVER, CO NED PERMIT	

DATE: 11/12/25
ENGINEER: ADB
DRAWN BY: TAZN

REVISIONS		

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SCALE
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 50'
SHEET NO: C-113.1
PAGE NO: 24 OF 31
WORK ORDER: 2509CDQU

SLACK LOOP STANDARDS PER FIBER SIZE: 864- 75', 432 - 75', ALL OTHER
FIBER SIZES- 100', ALL AERIAL SLACK LOOPS TO BE 150' AT EVERY 1500'
BORES TO BE AT 36" DEPTH TYPICAL, 48" DEPTH AT DOT CROSSINGS
IF BORING UNDER TREES IN ROW BORE TO BE DEPTH OF 7' TO AVOID
ROOTS



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1" = 50' (V) 1" = 10': SCALE
PROFILE VIEW ONLY
START STA: 65+87, END STA: 67+81

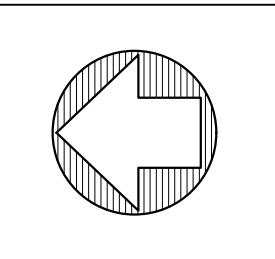
- LEGEND:
- PROPOSED GRADE
 - EXISTING GRADE
 - PROPOSED CONDUIT
 - EXISTING CONDUIT
 - PROPOSED HANDHOLE
 - EXISTING HANDHOLE
 - BORE PIT

SEE SHEET C-114 FOR CONTINUED
PROPOSED FIBER PATH @ STA: 67+81

NOTE: P&P TO BE ADDED WHEN
POTHOLING IS COMPLETED



PROJECT:
DN1456_DN2002BA_61LAB_5349
NED
DENVER, CO



MCI metro ACCESS TRANSMISSION SERVICES, LLC	
OUTSIDE PLANT CONSTRUCTION	
TITLE: FIBER OPTIC CABLE ROUTE	
DENVER, CO NED PERMIT	

DATE: 11/12/25
ENGINEER: ADB
DRAWN BY: TAZN

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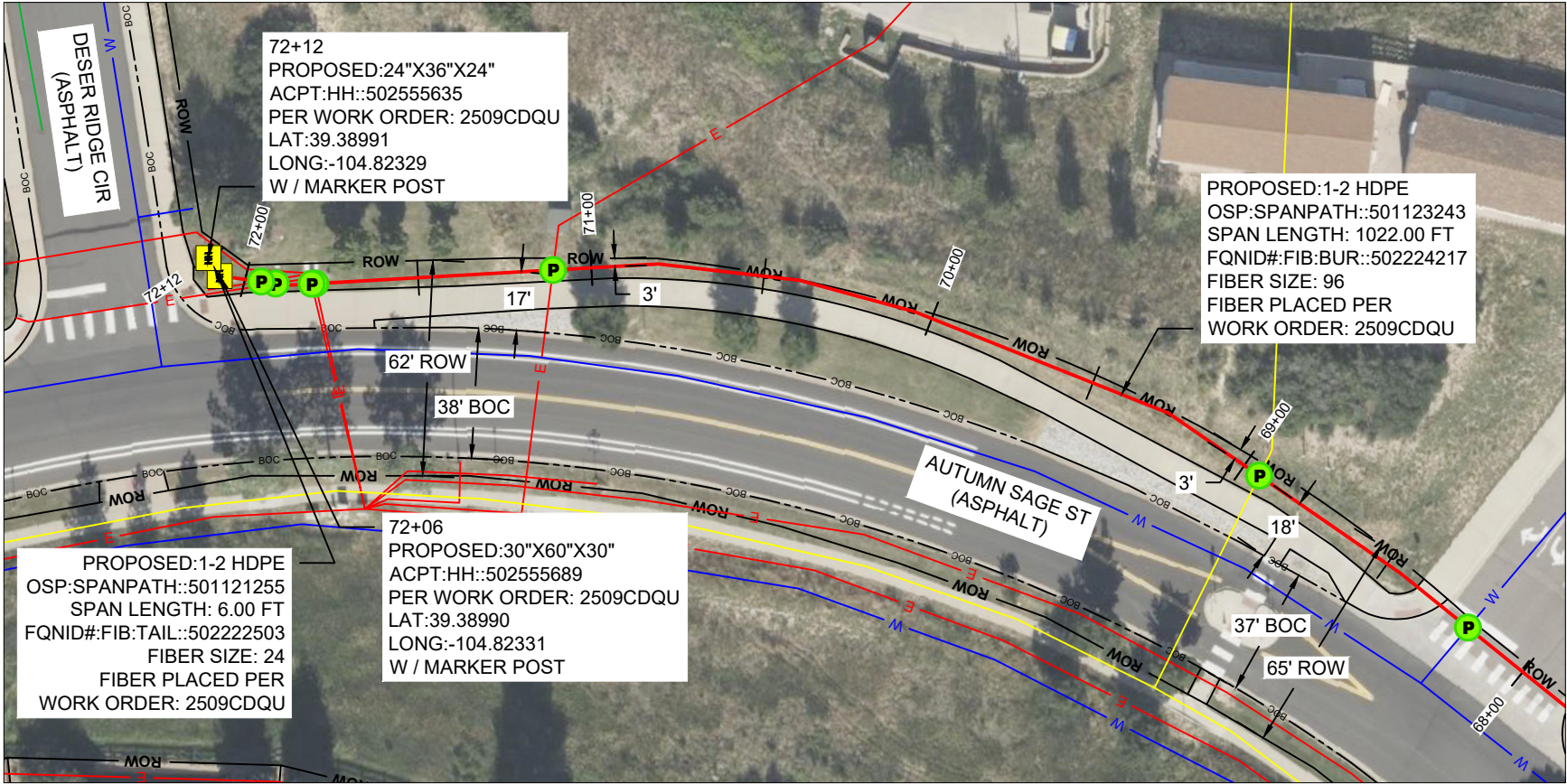
SCALE
HORIZONTAL: 1: 50
VERTICAL: 1: 50
SHEET NO: C-113.2
PAGE NO: 25 OF 31
WORK ORDER:
2509CDQU

SLACK LOOP STANDARDS PER FIBER SIZE: 864- 75', 432 - 75' ,ALL OTHER
FIBER SIZES- 100', ALL AERIAL SLACK LOOPS TO BE 150' AT EVERY 1500'
BORES TO BE AT 36" DEPTH TYPICAL, 48" DEPTH AT DOT CROSSINGS
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ROOTS



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1" = 50' (V) 1" - 10': SCALE
PROFILE VIEW ONLY
START STA: 65+87, END STA: 67+81

- LEGEND:
- | | | | |
|--|------------------|--|-------------------|
| | PROPOSED GRADE | | PROPOSED HANDHOLE |
| | EXISTING GRADE | | EXISTING HANDHOLE |
| | PROPOSED CONDUIT | | BORE PIT |
| | EXISTING CONDUIT | | |

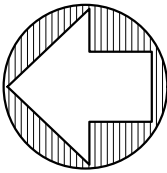
NOTE: P&P TO BE ADDED WHEN
POTHOLING IS COMPLETED



PROJECT:
DN1456_DN2002BA_61LAB_5349

NED

DENVER, CO



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ACCESS TRANSMISSION SERVICES, LLC
OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
DENVER, CO NED PERMIT

DATE: 11/12/25

ENGINEER: ADB

DRAWN BY: TAZN

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SCALE

HORIZONTAL: 1" = 50'

VERTICAL: 1" = 50'

SHEET NO: C-114

PAGE NO: 26 OF 31

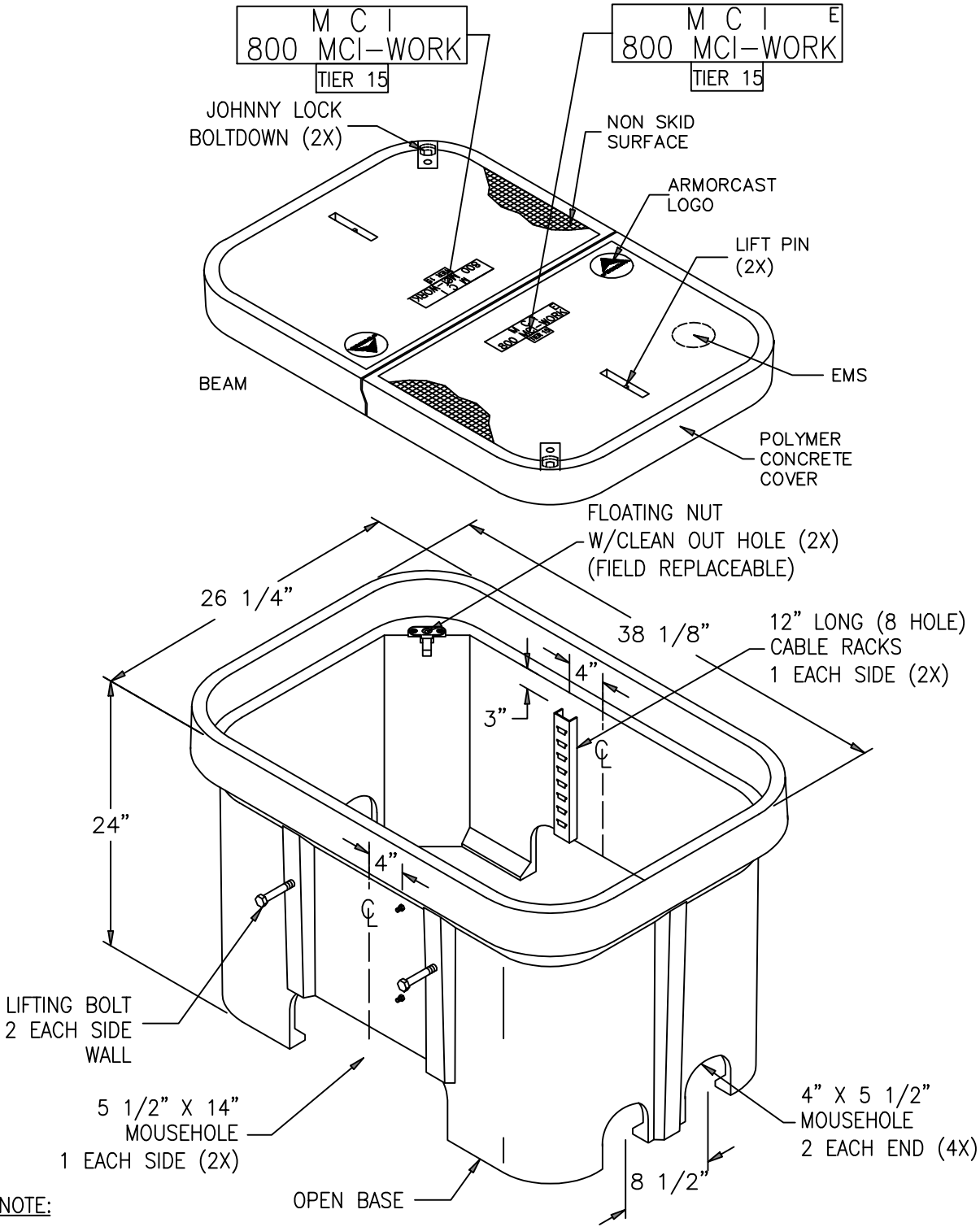
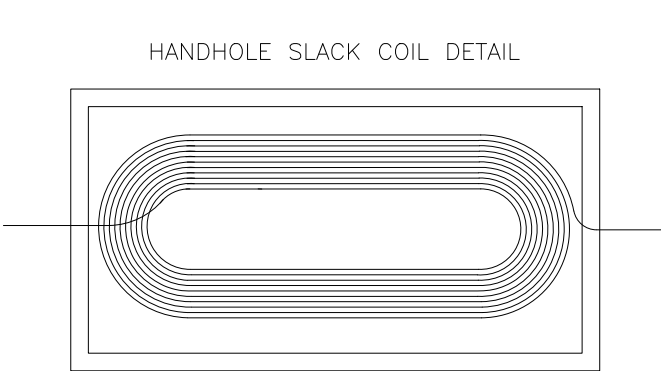
WORK ORDER:
2509CDQU

SLACK LOOP STANDARDS PER FIBER SIZE: 864- 75', 432 - 75', ALL OTHER
FIBER SIZES- 100', ALL AERIAL SLACK LOOPS TO BE 150' AT EVERY 1500'
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NOTE:
BOX AND COVER ASSEMBLY MEET
ANSI/SCTE 77 TIER 15 LOADING

24" X 36" X 24" POLYMER CONCRETE BOX ASSEMBLY
PART # A6001974TAPMCI3

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OUTSIDE PLANT CONSTRUCTION	
TITLE: FIBER OPTIC CABLE ROUTE	
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SCALE	
HORIZONTAL:	1: 50
VERTICAL:	1: 50
SHEET NO:	DT-1
PAGE NO:	27 OF 31
WORK ORDER:	2509CDQU

SLACK LOOP STANDARDS PER FIBER SIZE: 864- 75', 432 - 75' ,ALL OTHER
FIBER SIZES- 100', ALL AERIAL SLACK LOOPS TO BE 150' AT EVERY 1500'
BORES TO BE AT 36" DEPTH TYPICAL, 48" DEPTH AT DOT CROSSINGS
IF BORING UNDER TREES IN ROW BORE TO BE DEPTH OF 7' TO AVOID
ROOTS

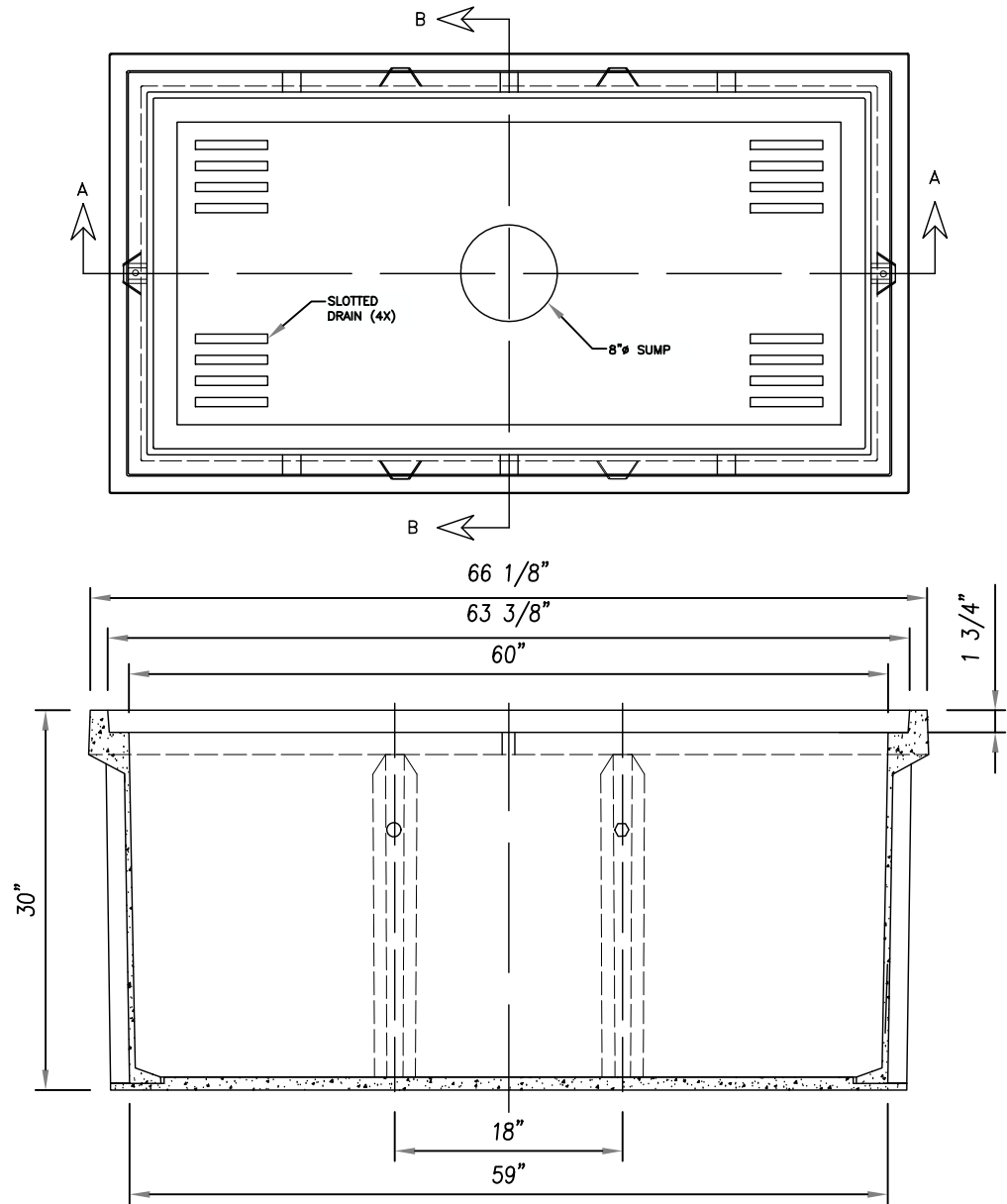


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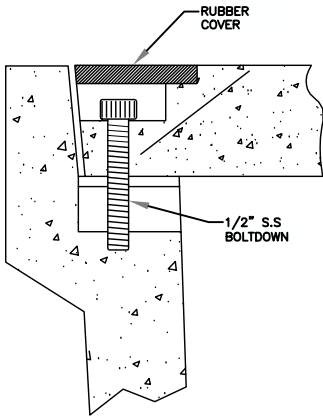
SEALED PLASTIC BAG PLACED INSIDE VAULT TO CONTAIN

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

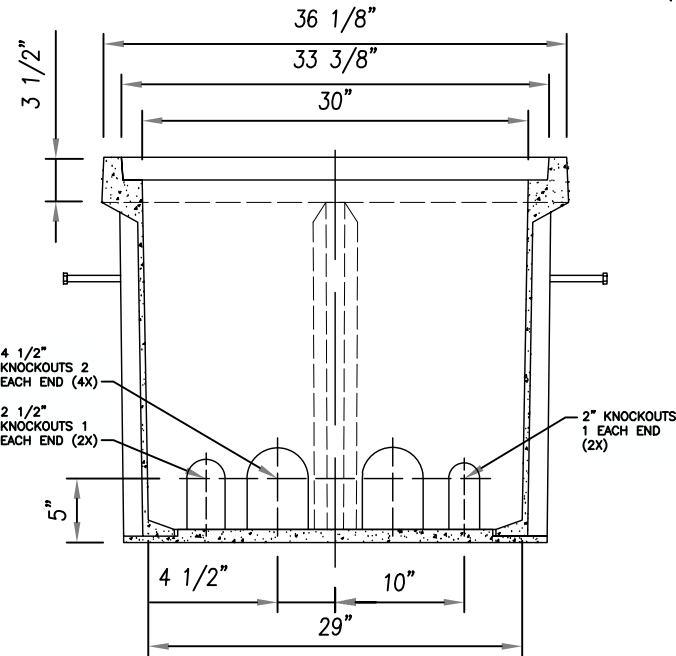


30K
800 MCI-WORK
DETAIL A

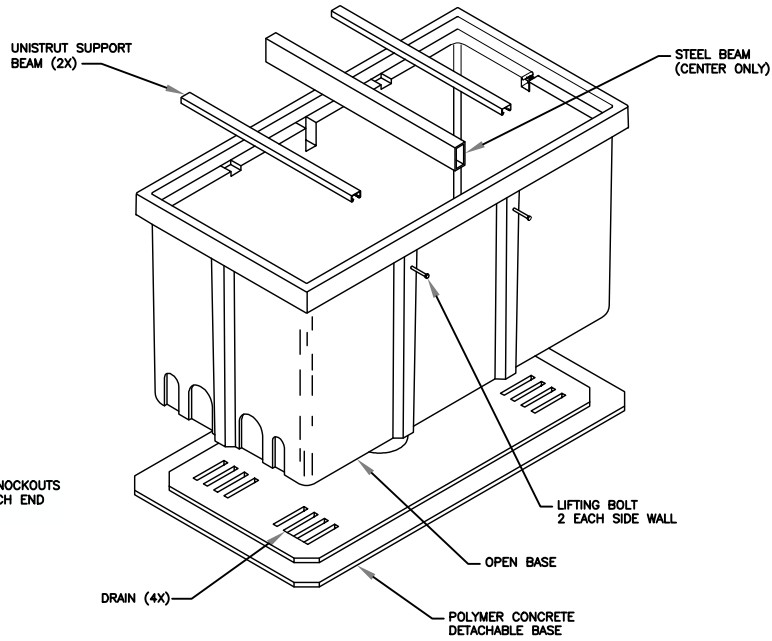
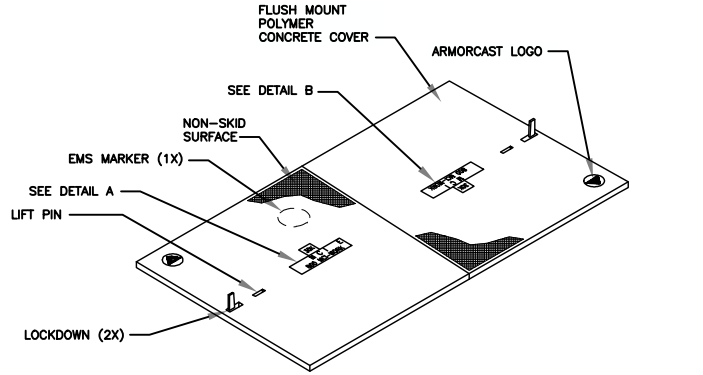
30K
800 MCI-WORK
DETAIL B



FLUSH MOUNT COVER DETAIL



DESIGN LOAD: 30,000 LBS
TEST LOAD: 45,000 LBS



30K STANDARD HANDHOLE 30" X 60" X 30"

PART # A6001742TAPMCI3



PROJECT:
DN1456_DN2002BA_61LAB_5349

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DENVER, CO

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ACCESS TRANSMISSION SERVICES, LLC
OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
DENVER, CO NED PERMIT

DATE: 11/12/25

ENGINEER: ADB

DRAWN BY: TAZN

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SCALE

HORIZONTAL: 1: 50

VERTICAL: 1: 50

SHEET NO: DT-2

PAGE NO: 28 OF 31

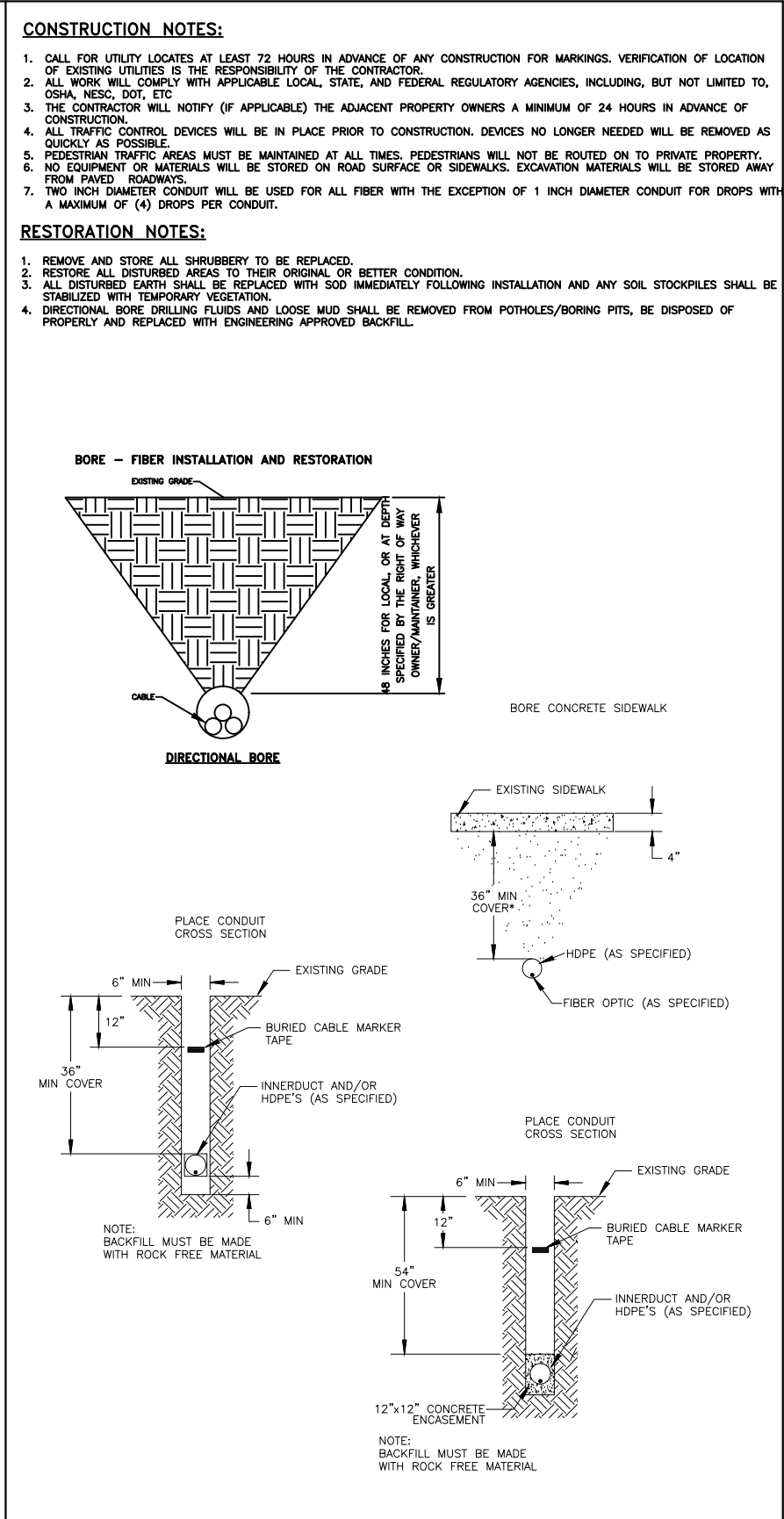
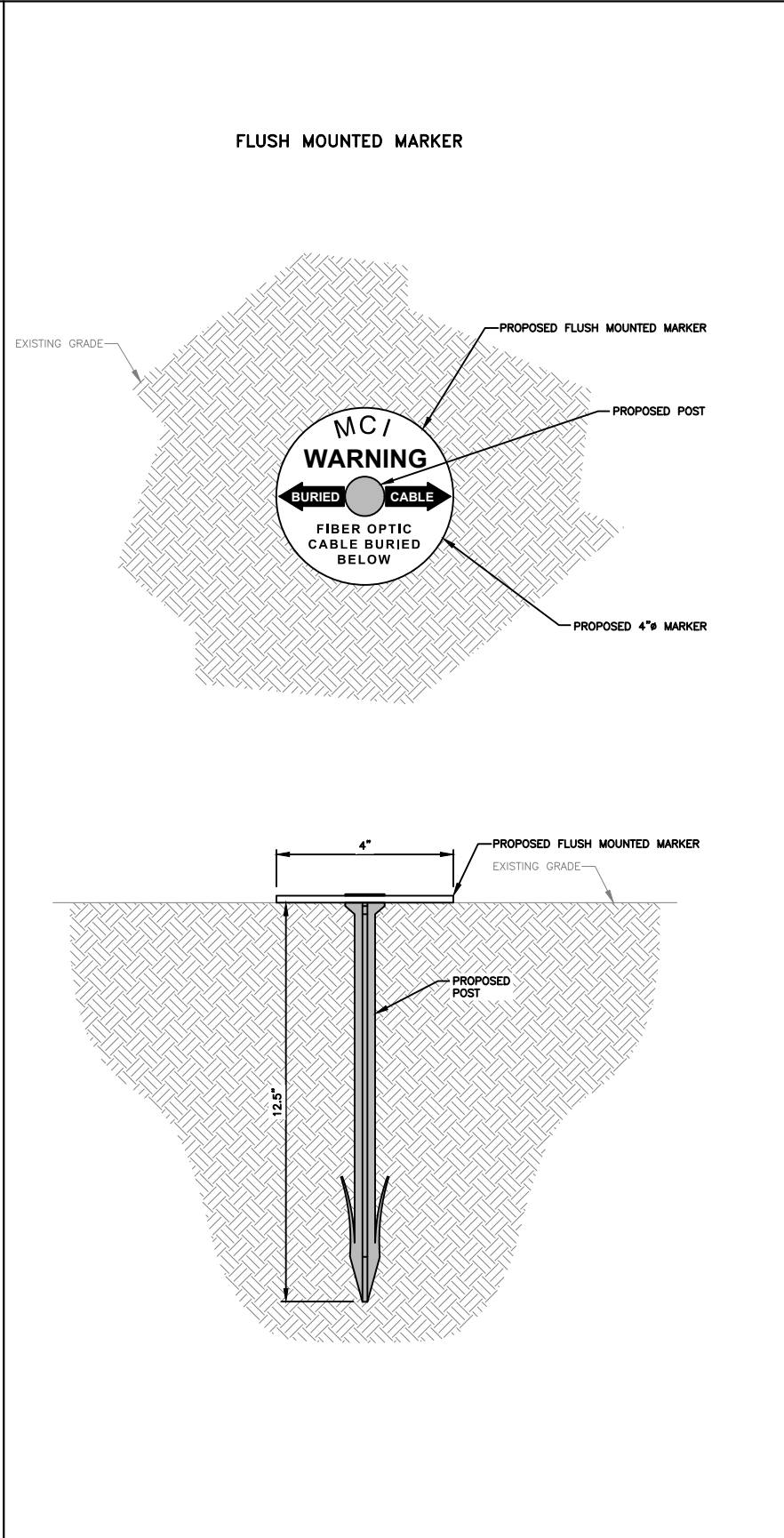
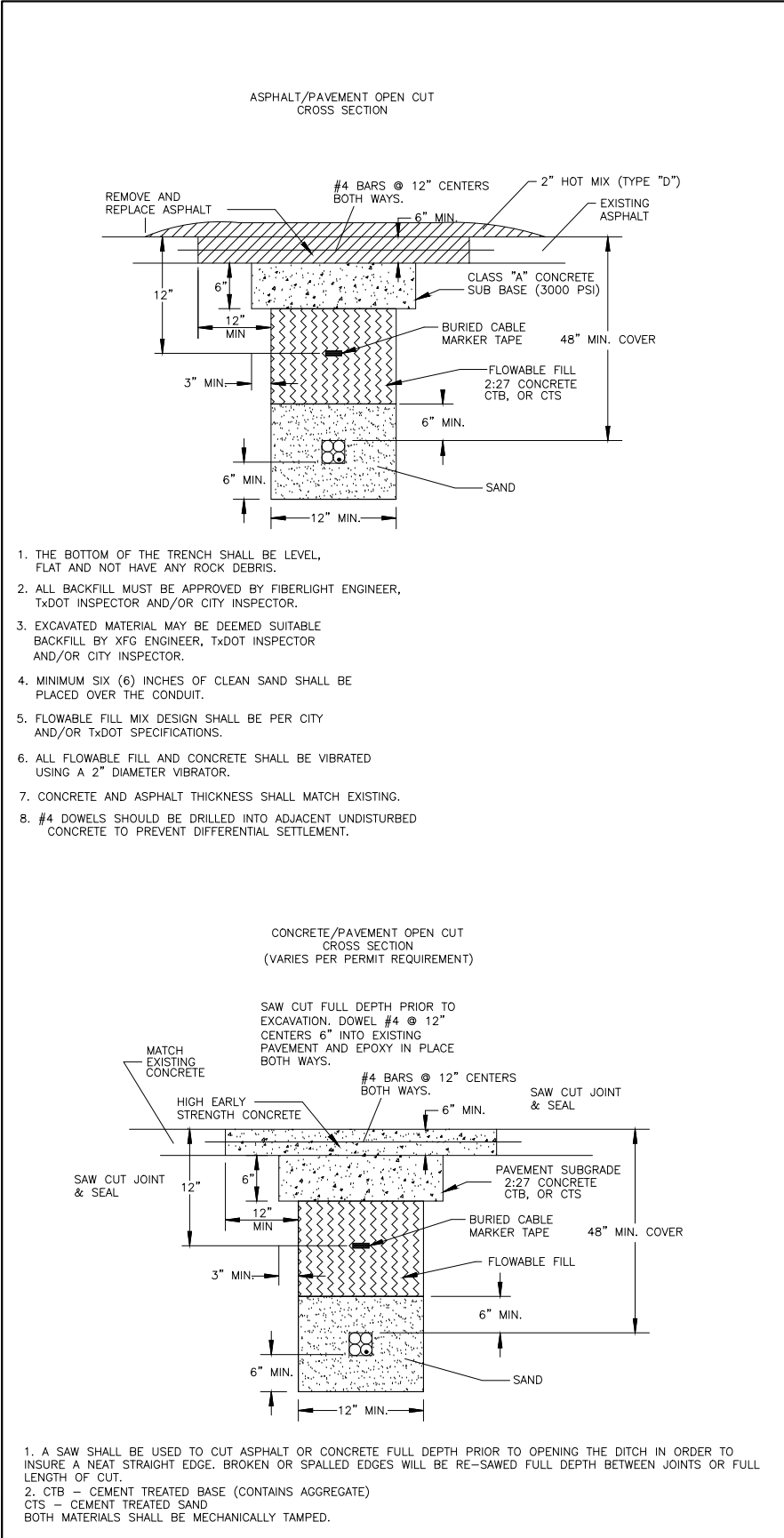
WORK ORDER:
2509CDQU

SLACK LOOP STANDARDS PER FIBER SIZE: 864- 75', 432 - 75' ,ALL OTHER FIBER SIZES- 100', ALL AERIAL SLACK LOOPS TO BE 150' AT EVERY 1500' BORES TO BE AT 36" DEPTH TYPICAL, 48" DEPTH AT DOT CROSSINGS IF BORING UNDER TREES IN ROW BORE TO BE DEPTH OF 7' TO AVOID ROOTS



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OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
DENVER, CO NED PERMIT

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SCALE

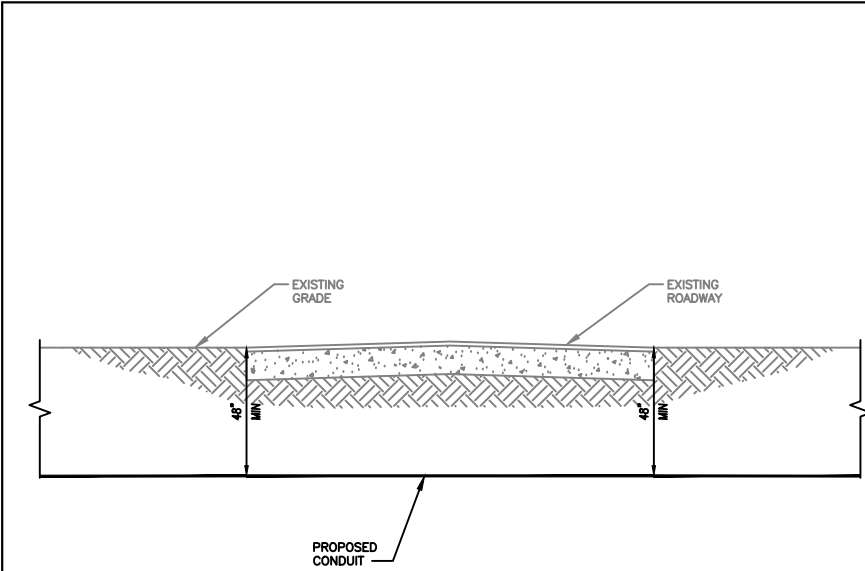
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VERTICAL: 1: 50

SHEET NO: DT-4

PAGE NO: 30 OF 31

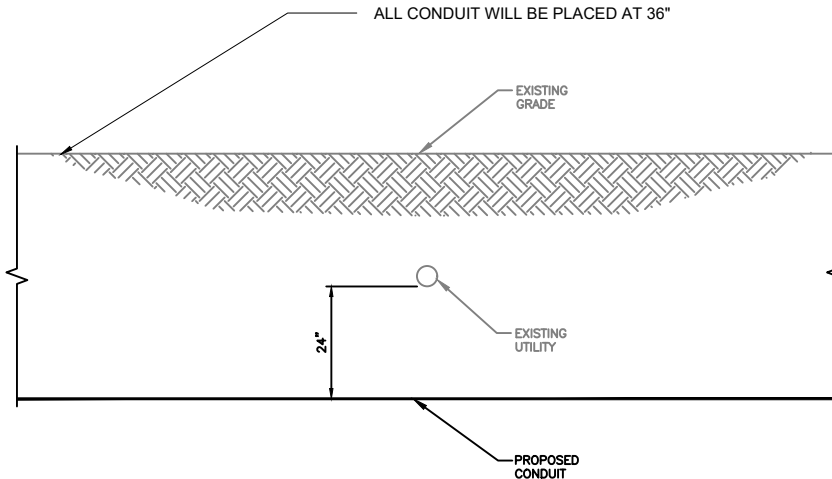
WORK ORDER:
2509CDQU



TYPICAL ROADWAY CROSSING

NO SCALE

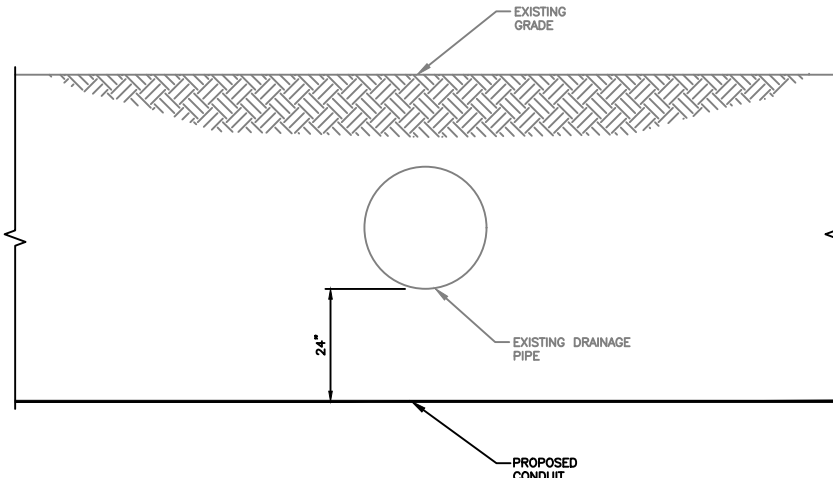
A



TYPICAL UTILITY CROSSING

NO SCALE

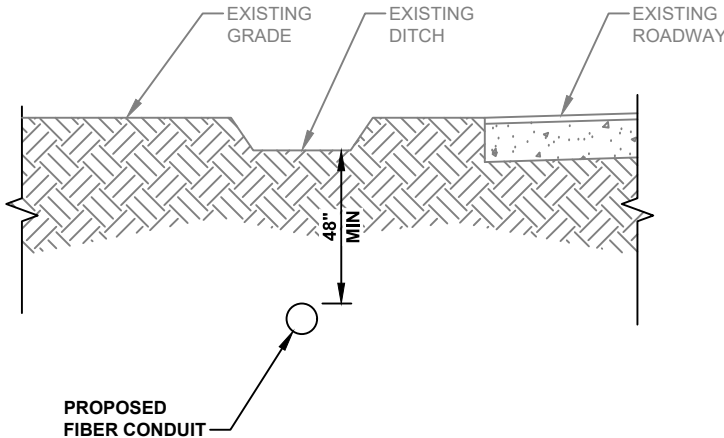
B



TYPICAL CULVERT CROSSING

NO SCALE

C

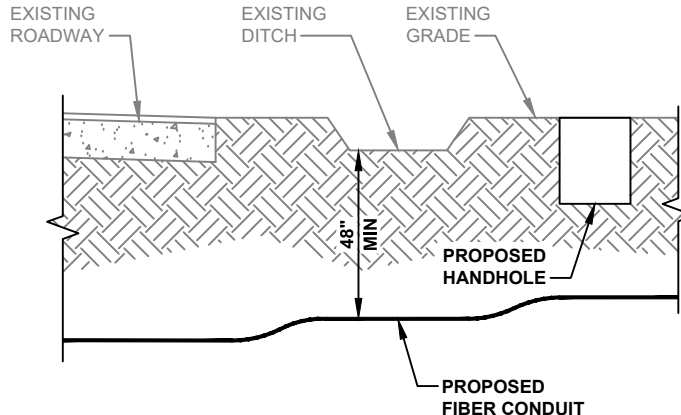


NOTE: SIDEWALK OMITTED FOR CLARITY.

TYPICAL DITCH VERTICAL ALIGNMENT

NO SCALE

D

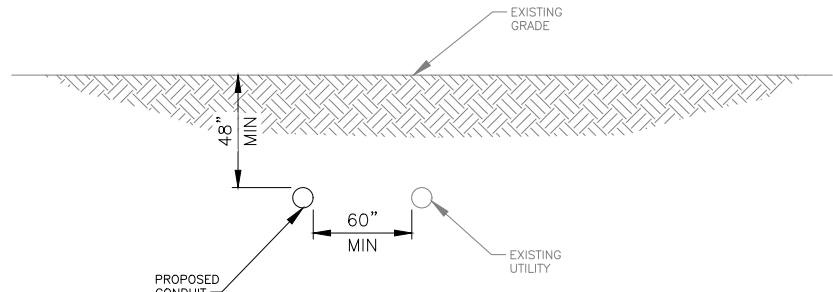


NOTE: SIDEWALK OMITTED FOR CLARITY.

TYPICAL DITCH VERTICAL ALIGNMENT

NO SCALE

E



TYPICAL UTILITY DETAIL

NO SCALE

F

SLACK LOOP STANDARDS PER FIBER SIZE: 864- 75', 432 - 75' ,ALL OTHER FIBER SIZES- 100', ALL AERIAL SLACK LOOPS TO BE 150' AT EVERY 1500' BORES TO BE AT 36" DEPTH TYPICAL, 48" DEPTH AT DOT CROSSINGS IF BORING UNDER TREES IN ROW BORE TO BE DEPTH OF 7' TO AVOID ROOTS



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MCImetro
ACCESS TRANSMISSION SERVICES, LLC

OUTSIDE PLANT CONSTRUCTION

DENVER, CO NED PERMI I

REVISIONS

[illegible]

VERTICAL: 1: 50

PAGE NO: 31 OF 31

WORK ORDER:
2509CDQU



MCI METRO ACCESS TRANSMISSION SERVICES

ADB
6880 S. YOSEMITE CT, SUITE 150
CENTENNIAL, CO 80112
M1: (902) 647-6378 M2: (719) 360-5418