



Village of Hinsdale
19 E. Chicago Avenue
Hinsdale, IL 60521-3489
(630)789-7000

Village Website: www.villageofhinsdale.org

PUBLIC SERVICES UTILITY PERMIT APPLICATION

FEES \$100.00

Date of Application: 1/11/21 Permit No: VER-0014 Permit Expiration Date: 10-31-21

Utility Company Information:

Company Name: MCI Metro Access Transmission Services Corp.
Address: 600 Hidden Ridge
City, State, Zip: Irving, TX 75038
Contact Person: Adam Higham
Phone Number: 312-894-3116
Email Address: adam.higham@ledcor.com
Cell Number: 312-989-0351
Project/Work Order Number: Chicago9923

Contractor Information:

Company Name: LTS Technical Services LLC.
Address: 723 N. Oaklawn Ave
City, State, Zip: Elmhurst, IL 60126
Contact Person: Allan Brotherson
Phone Number: 630-464-1590
Email Address: Allan.Brotherson@ledcor.com
Cell Number: 630-464-1590

PROJECT LOCATION: S Lincoln St, W. 9th St

Description of work covered under this permit: Work is part of permit#VER-0012. Scope of this one is to pull 6466' 96CT fiber optic cable as per plans.

Start Date: TBD

Completion Date: TBD

Site Plan/Details/Specifications (3 sets) included with application?
Certificate of Insurance included with application?

☒ YES ☐ NO
☐ YES ☒ NO ON FILE

Type of Utility: ☐ ComEd ☐ Nicor ☐ Comcast ☐ Water ☐ Sewer
☐ Communications: ☒ Fiber Optic ☐ Wireless ☐ Other: _____

Applicant Information:

Print Name: Joshua Pathammavong

Phone Number: 312-625-9977

Company: LTS Technical Services LLC

Email Address: Joshua.Pathammavong@Ledcor.com

Signature: Joshua Pathammavong

Date: 1/11/21

ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION IN EFFECT ON THE DATE OF PERMIT APPLICATION OF THE FOLLOWING: STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION & SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION, ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, AND THE VILLAGE OF HINSDALE SUBDIVISION ORDINANCE AND ENGINEERING STANDARDS.

Village Use Only

Permit Approved: YES NO

Conditions for Approval/Reasons for Denial: ALL DISTURBED AREAS TO BE RESTORED WITHIN 14 DAYS OF COMPLETION. NOTIFY VILLAGE STAFF 48 HOURS PRIOR TO START.

Approved By: [Signature] As Diaz

Date: 02/15/21

MSA MUNICIPAL SERVICES ASSOCIATES, INC.

June 2, 2021

Mr. Daniel Deeter, P.E.
Village Engineer
Village of Hinsdale
19 East Chicago Avenue
Hinsdale, Illinois 60521

Dear Mr. Deeter:

At the direction of the Village of Hinsdale, Municipal Services Associates, Inc. (MSA) has reviewed the plans submitted by Ledcor Group ("Ledcor") on behalf of MCImetro for the pulling of fiber optic lines in fiber optic cable conduit and tracer wire in the Village of Hinsdale and DuPage County Rights-of-Way along Lincoln Street, West 9th Street, and Madison Street. The fiber line installation will follow the conduit segment that MSA reviewed in September 2020. The fiber line installation will begin north of the intersection of Lincoln Street and West 2nd Street and will proceed from a proposed handhole on the west side of Lincoln Street and a proposed bore pit on the east side of the street. The fiber lines will extend from that point south on Lincoln Street to West 9th Street, then west along West 9th Street to Madison Street where the fiber lines and conduit terminate in the Right-of-Way on the northeast corner of 55th Street and Madison Street.

Ledcor and MCImetro intend to install 6466' (1971.34 meters) of 96-strand count fiber optic lines through 6016' (1834.15 meters) of conduits. The additional 450' (137.20 meters) of fiber optic cable is excess cables to be coiled and stored in the handholes located along the conduit pipe route. The project does not propose aerial installation of fiber optic cable. The project and the recommendations of MSA are described below.

Existing Facilities: The project will utilize conduit pipes buried underground in the Right-of-Way. Although other underground facilities are likely to occupy the Right-of-Way along the project route, including power, telephone, and cable utilities, project plans do not indicate the presence of other utilities. Ledcor has indicated that they have not performed any utility marking for the fiber optic installation, although MCImetro stated in its plans for conduit installation that it would be the responsibility of the project's General Contractor, Ledcor, to mark and identify specific utilities in the Rights-of-Way along Lincoln Street, West 9th Street, and Madison Street. The proposed fiber optic lines will be buried inside the conduit pipe at a depth of 36" (.916 meters).

3 Golf Center, # 311 • Hoffman Estates, Illinois 60169
TEL-847-882-7773 FAX-847-310-9275 MOBILE-847-867-6117
E-Mail: MSASchapman@cs.com
www.msatelecom.com

FCC 2014 Authorization Order “Shot Clock” Period of Review: The fiber optic line installation proposed by Leducor is intended to serve as a backhaul network for small cells which have not yet been constructed. Until the small cells are activated, the fiber optic cables, could be utilized for alternative purposes. The previous report concerning the burial of conduit pipes noted that the fiber optic cables could be used for extension of an existing telecommunications data network from the central business district to the southern section of the Village, or for businesses located near the network.

Currently, the project is planned as a stand-alone fiber optic conduit and tracer wire installation that does not yet support wireless facilities, therefore, it is not subject to the FCC 2014 Authorization Order and is not subject to a “Shot Clock” period of review.

Proposed Project and Description

Leducor proposes to install fiber optic cables in conduit pipes that are configured in a J-shaped run from a point beginning 150' (45.73 meters) north of the intersection of Lincoln Street and West 2nd Street, across the west side of Lincoln Street to the Right-of-Way on the east side of the street. From that point, the fiber optic lines inside the conduit pipes will run in a southerly direction for a distance of 3760' (1146.34 meters) beneath the Right-of-Way on the east side of Lincoln Street to the northern edge of the Right-of-Way at the southeast corner of the intersection of Lincoln Street and West 9th Street, and along West 9th Street in the Right-of-Way on the south side of the street. The final leg of the project will be located beneath the Right-of-Way along the east side of Madison Street to the northeast corner of Madison Street at 55th Street. This run of conduit pipe will connect with a separate run of conduit pipe that proceeds east in the Right-of-Way along 55th Street and south in the Right-of-Way along Madison Street.

Leducor did not propose an alternative traffic control plan for the installation of the fiber optic lines. The proposed project will require partial street closings and traffic restrictions. Although no sidewalks have been identified for closing, Leducor has included a sidewalk diversion plan to redirect pedestrian traffic during the project to include appropriate warning signs.

The project also will entail construction at the location of handholes. The handholes are located 150' (45.73 meters) north of the southwest corner of Lincoln Street and West 2nd Street, 350' (106.71 meters) south of the southeast corner of Lincoln Street and West 4th Street, 103' (31.40 meters) north of the southeast corner of Lincoln Street and West 8th Street, and at the intersection of the Right-of-Way on the east side of Lincoln Street where it intersects with Washington Circle and West 9th Street.

Slow Traffic and Stop signs will be used by flaggers as traffic control measures. Arrow boards that are mounted either on a trailer or on the roof of a vehicle will be used to direct traffic where lanes will be blocked by construction equipment. Road Construction Ahead, Road Work Ahead, and Road Closed signs are proposed for installation where construction is planned at intersections.

Property restoration will require that concrete and asphalt restorations meet Village of Hinsdale standards for concrete pavements, pavements with an aggregate base and bituminous surfaces, or concrete pavements with bituminous overlays.

Project Purpose

The main purpose of Leducor's project is to provide fiber optic cables that will connect to a larger fiber optic network belonging to Verizon that will be installed in Hinsdale. The proposed conduit project is part of a backhaul system that will be used to link existing macrocell antennas to small cells and to other macrocell installations.

MSA's previous reports regarding MCIMetro fiber conduit installations in Hinsdale mentioned Verizon's plans for its macrocell network to support small cells that are to be mounted on utility poles or street lights which are located in Village Right-of-Ways. Since MSA's previous reports regarding MCIMetro and Leducor conduit burials submitted in July and September 2020, there have been no installations of small cells along the proposed conduit routes.

Grounding: Grounding for the fiber optic cables were not proposed by Leducor and grounding of the fiber optic cables are not necessary. However, should the proposed fiber optic cables be installed to fiber interface equipment installed on utility poles or other wireless support structures, such equipment will be required to be grounded at, or adjacent to, its location.

Requested Information of Applicant

The following information was requested by MSA from LTS Technical Services, LLC ("LTS") on January 21, 2021:

1. Are traffic controls necessary for Leducor when its crews pull fiber through the conduit route? If so, will the traffic controls be the same as those shown in the plans? If there are differences, please provide a revised traffic plan indicating traffic controls along Lincoln Street, West 9th Street, and Madison Street.
2. What installation equipment will Leducor utilize for pulling fiber optic cable? Will the equipment be parked in the Right-of-Way or on the street, or both? In the event that equipment will be parked in the Right-of-Way, please provide a statement indicating how Leducor will endeavor to prevent damage to the Right-of-Way and the manner in which streets, and areas within the Right-of-Way, including sidewalks that may be disturbed by equipment, will be restored.
3. Please indicate if any JULIE location marking will be conducted for the fiber cable installation. If marking has not yet been performed, please indicate when locate marking will be performed.

Mr. Joshua Pathammavong of LTS replied on May 4, 2021. LTS indicated that it would not be performing JULIE location marking. In addition, LTS did not identify the equipment that it would be using to pull the fiber optic cables through the conduit pipes.

FCC OET Bulletin 65 Appendix A Checklist: The proposed project does not include erection of an antenna array or construction of a cell tower or other similar structure. Therefore, the requirements for RF exposure and safety under FCC Office of Engineering and Technology (OET) Bulletin 65 Appendix A do not apply to the proposed project.

Structural Evaluation: No structural evaluation was required for this project as the proposed activities do not involve installation of the fiber optic cables on a pole, or other wireless support structure to the extent that such installation would necessitate an analysis of wind and ice on the installation, or resistance from wind shear.

Radio Frequency Interference Issues: The proposed project does not include the installation of radios or antennas that would emit frequencies that would possibly interfere with radio frequencies used by the Village. Therefore, no statement of “Good faith efforts” to avoid radio frequency interference with Village radio frequencies was requested for the proposed project.

Section 6409(a) - Spectrum Act - Applicability:

MSA has reviewed the Ledcor application for the following scope of work along Lincoln Street, West 9th Street, and Madison Street to 55th Street within the Village of Hinsdale stated earlier in this report:

- Installation of 6466' (1971.34 meters) in conduit pipes to be installed in the Right-of-Way along Lincoln Street from north of West 2nd Street to West 9th Street, and at the southeast corner of West 9th Street and Madison Street. 6016' (1834.15 meters) of fiber will be installed in the conduit pipe, and 450' (137.20 meters) will be stored as spare coils in handholes installed along the conduit and fiber cable route.

MSA has reviewed the proposed project and plans in light of Section 6409(a), also known as the “Spectrum Act,” contained within the Middle Class Tax Relief and Job Creation Act of 2012. Section 6409(a), codified at 47 CFR §1.6100, and examined whether the proposed project is subject to the requirements of the Spectrum Act.

As stated earlier in this report, based on the proposed Scope of Work, the proposed project does involve a wireless facilities operator, however, it does not, at the present time, constitute a Wireless Facility Modification as described within 47 CFR §1.6100. The proposed project does not involve the installation of an antenna array, small cell, base station, or collocation.

Although the proposed project does involve the installation of transmission equipment, (i.e., fiber optic conduits) the project does not include collocation, removal, or replacement of transmission equipment on an existing tower or base station(1).

Having reviewed the current project plans for this site, MSA's opinions as the Village's technology expert are as follows:

1. The instant project is not a "collocation of new transmission equipment" within the meaning of 47 CFR §1.6100(b)(2); and
2. The instant project does not include an "Eligible Support Structure" as defined by the Spectrum Act, and while the proposed project does incorporate the use of "Transmission Equipment" defined by the Act, it does not propose connection to an Eligible Support Structure in a manner that would place the project under the purview of the Act.

For the reasons discussed above and based on these conclusions, it is MSA's recommendation that the Village recognizes that the Spectrum Act rules indicate that the proposed project *is not* subject to the timeframes, requirements and conditions of the Spectrum Act. Therefore, the Village may either deny or approve the proposed project.

Recommendations

At the present time, the Village has temporarily suspended review of small cell applications until the end of the pandemic. Upon the Village's determination that the pandemic has concluded based upon declarations by the State of Illinois or the Centers for Disease Control, MSA recommends that the Village allow Leducor and MCImetro to proceed with the proposed project prior to approving plans for installation of small wireless facilities on utility poles, or other wireless support structures.

Permit Compliance: MSA recommends that the issuance of the permit be contingent upon Leducor providing the Village with the following information prior to its issuance:

1. Identification of the party responsible for JULIE marking. In the event that JULIE marking was performed prior to the installation of the conduit, LTS will provide the Village with contact information for the company that performed the JULIE marking in the event that Village utilities were damaged during installation of conduit pipes.
2. Identification of the equipment that Leducor intends to use for the pulling of fiber optic lines as noted in the Request For Information sent to LTS on January 21, 2021.

(1) 47 CFR §1.6100(b)(3)(i-iii). "(3) *Eligible Facilities Request*. Any request for modification of an existing tower or base station that does not substantially change the physical dimensions of each such tower or base station, involving: (i) collocation of new transmission equipment; (ii) removal of transmission equipment; or (iii) replacement of transmission equipment."

Mr. Daniel Deeter
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MSA recommends that the Village work with Leducor to assure compliance with the Right-of-Way Ordinance, with special emphasis on property restoration that will result from the installation of the fiber optic cables through handholes, or other excavations necessary for the pulling of fiber cables throughout the conduit route.

5G Applicability: To date, Verizon Wireless has not received approval from the Village for any specific plans to install small cells in Hinsdale. However, the proposed fiber optic cables and conduit pipes are essential infrastructure necessary for establishing a small cell network that will support the macrocell-based wireless network that is already in place.

In the City of Chicago and in a number of suburban Chicago communities, including several in DuPage County, Verizon Wireless has constructed its network with 5G radios and antennas, along with 4G/LTE equipment that continues to serve a large number of local users. Verizon's network depends on a fiber optic network to link its tower and rooftop-based macrocells with its small cell equipment. MSA does not yet have adequate information to opine as to when the fiber optic cables that will serve the 5G small cell and macrocell networks will be installed in Hinsdale.

Although MSA is aware of the types of 4G/LTE and 5G antennas, radios, and frequencies that Verizon has deployed in other communities, without reviewing specific plans for Verizon small wireless facilities in Hinsdale, MSA hesitates to opine on the type of antenna and radio equipment and frequencies used by the equipment that Verizon may connect to the fiber optic network planned the Village.

Should the Village have any questions concerning this report, or if any additional background is needed, please contact me at your first opportunity.

Sincerely,

Stuart Chapman

Stuart Chapman, President
Municipal Services Associates, Inc.

cc: Kathleen Gargano, Village Manager, Village of Hinsdale
George Peluso, Director of Public Services, Village of Hinsdale
Rob McGinniss, MCP, Director of Community Development, Building
Commissioner, Village of Hinsdale
Al Diaz, Assistant Village Engineer, Village of Hinsdale

INTERNAL SUBCONTRACTOR IDENTIFICATION: 60369Chicago9923
PROJECT NAME: HINSDALE AND LINCOLN
PROJECT #: 1812BTLK-PE-MCA-9923-1
PERMITTING AGENCY - VILLAGE OF HINSDALE

The map displays the city of Hinsdale, Illinois, with a focus on the project location. The project site is a large, irregularly shaped area outlined in black and filled with diagonal hatching. It is located east of Robbins Park and south of the Bank of America Financial Center. The map includes major roads like Chicago Ave and 55th St, and various landmarks such as St. Isaac Jogues Catholic Church, Christ Lutheran Church, and Golfview Lake. A callout box labeled "PROJECT LOCATION" points to the hatched area.

1. COVER SHEET
2. PROJECT CONTACT & NOTES SHEET
3. F.O.C.U.S. SHEET
4. CLARIFICATION SUMMARY SHEET
5. SYMBOLS SHEET
6. HANDHOLE DETAIL
7. ADDITIONAL NOTES AND DETAILS
- 8-18. PLAN VIEW
- 19-25. TRAFFIC CONTROL STANDARD

- PULL 6718' OF 96CT FIBER OPTIC CABLE



HINSDALE, IL

QUANTITY

410

6718'

MCImetro
ACCESS TRANSMISSION SERVICES CORP.

OUTSIDE PLANT CONSTRUCTION

TITLE: 1812BTLK-PE-MCA-9923-1

DATE: 4/29/2021

DESIGNER: LEDCOR GROUP

DRAWN BY: S.DEIRMENDJIAN

REVISIONS

DATE	DESCRIPTION	INITIAL

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THE PROPERTY OF MCI COMMUNICATIONS SERVICES, INC.,
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PURPOSE WITHOUT SPECIFIC WRITTEN PERMISSION.

CRAN HUB:
VZB DOWNERS GROVE

PERMIT ID: 9923

SCALE

HORIZONTAL: NTS

VERTICAL: NTS

MP TO MP

SHEET 1 OF 25

FILE: 1812BTLK-PE-MCA-9923-1



GENERAL NOTES

1. MCI COMPRISES THE FOLLOWING OPERATING ENTITIES:
 - MCI COMMUNICATIONS SERVICES, INC.
 - MCI METRO ACCESS TRANSMISSION SERVICES CORP.
 - 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 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, MCI BUSINESS, OR THE RIGHT-OF-WAY-GRANTOR.
4. LOCATIONS OF SOME OF THE PHYSICAL FEATURES WERE OBTAINED FROM DATED RAILROAD VALUATION MAPS OR OTHER DRAWINGS, AND MAY NOT BE AS SHOWN OR DEPICTED ON THESE DRAWINGS.
5. UTILITIES SHOWN ON PERMIT ARE LIMITED TO THOSE OBTAINED BY A SEARCH OF PUBLICLY AVAILABLE RECORDS FROM MUNICIPALITIES AND UTILITY OWNERS PRIOR TO PLANSET CREATION AND MAY NOT REFLECT ALL UTILITIES AT SITE LOCATION(S).
6. SOME UTILITY LOCATIONS ADJUSTED TO MATCH AS FOUND IN FIELD.
7. 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, BORING OR PLOWING, SO THAT CHANGES IN CABLE PLACEMENT CAN BE MADE IN EVENT OF CONFLICTS.
8. 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.
9. 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 OR BETTER CONDITION.
10. EQUIPMENT TYPES SPECIFIED HEREIN (ie: "BACKHOE," "SWAMP PLOW", ETC.) ARE SUGGESTIONS ONLY AND ARE NOT INTENDED AS REQUIREMENTS.

CONSTRUCTION NOTES

1. ALL CONDUIT WILL BE 2" HDPE
2. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES 48 HOURS PRIOR TO CONSTRUCTION ACTIVITY.
3. ALL UNDERGROUND OBSTRUCTIONS, WHEN LOCATED, WILL REQUIRE THE PLACEMENT OF A BURIED CABLE MARKER AND THE PLACEMENT OF 4" MANUFACTURED SPLIT PVC, BSP/GSP OVER OR UNDER EACH OBSTRUCTION.
4. SHORING MAY BE REQUIRED AND SHALL COMPLY TO O.S.H.A. STANDARDS.
5. ALL BURIED CONDUIT/CABLE WILL BE PLACED AT 36" 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. VERIZON BUSINESS 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:
 - A. 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.
 - B. 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.

PROJECT CONTACTS

<u>DESIGN CONTRACTOR</u> NAME OF FIRM: LEDCOR TECHNICAL SERVICES SENIOR DESIGN MANAGER: GREG SEYMOUR EMAIL: GREG.SEYMOUR@LEDCOR.COM PHONE: (312) 971-9182	<u>OWNERS</u> NAME OF FIRM: MCI METRO TRANSMISSION SERVICES CORP. D.B.A. VERIZON ACCESS TRANSMISSION SERVICES ENGINEER: OSCAR GUERRERO PHONE: (312) 453-8106 EMAIL: OSCAR.GUERRERO@ONE.VERIZON.COM
<u>CONSTRUCTION CONTRACTOR</u> NAME OF FIRM: LEDCOR TECHNICAL SERVICES CONSTRUCTION MANAGER: WAYNE SMITH PHONE: (312) 971-1488	
<u>CITY GOVERNMENT</u> <u>VILLAGE OF HINSDALE</u> COMMUNITY DEVELOPMENT DEPT 19 EAST CHICAGO AVE HINSDALE, IL 60521 PH: 630-789-7030	



NOT FOR
CONSTRUCTION

PROJECT:

1812BTLK-PE-MCA-9923-1

HINSDALE, IL

[illegible]

MCImetro
ACCESS TRANSMISSION SERVICES CORP.

OUTSIDE PLANT CONSTRUCTION

TITLE: 1812BTLK-PE-MCA-9923-1

DATE: 4/29/2021

DESIGNER: S.DEIRMENDJIAN

DRAWN BY: S.DEIRMENDJIAN

REVISIONS

DATE	DESCRIPTION	INITIAL
####	####	####
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CRAN HUB:
VZB DOWNERS GROVE

PERMIT ID: 9923

SCALE

HORIZONTAL: NA

VERTICAL: NA

MP TO MP

SHEET 2 OF 25

FILE: 1812BTLK-PE-MCA-9923-1

- 1) The title of this program, F.O.C.U.S., an acronym for Fiber Optic Cable Uncovering System was selected to remind everyone involved with working near MCI's active fiber optic systems to focus on protecting the facilities. If, during the course of the project, YOU notice any activity which may jeopardize the MCI OSP facilities, it is your duty to stop the work and re- FOCUS
- 2) FOCUS 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 FOCUS is mandatory at every Pre-bid, Pre-construction, site meeting and daily tailgate meeting. FOCUS 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 asbuilts.
 - 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 10ft. The excavation contractor must pothole the cable a minimum of every 15 ft.
 - 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.
 - 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 facilities are clearly visible.
 - In addition, mechanical excavation within three feet of OSP facilities requires onsite 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.



- 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.

Release 1.0

[illegible]

CLARIFICATION NOTES (CONTINUED)		
100	110	JACK AND DRY BORE CONDUIT(S)
200	210	PLACE CONDUIT
	212	PLACE HIGH DENSITY POLYETHYLENE (HDPE)
	213	ROCK ADDER
	214	SLURRY BACKFILL ADDER
	215	EXPOSE CONDUIT
	216	EXPOSE CONDUIT AND RELOCATE
	217	EXPOSE CONDUIT AND REPLACE/SUBSTITUTE
	218	EXPOSE AND REMOVE CONDUIT
	219	EXPOSE AND REMOVE CONDUIT (ABANDONED)
	220	CONCRETE ENCASE
	221	REMOVE CONCRETE ENCASEMENT
	222	REMOVE CONCRETE CAP
	240	PLACE HANDHOLE
	244	REMOVE EXISTING HANDHOLE
	245	RELOCATE HANHOLE
	246	REPLACE/SUBSTITUTE HANDHOLE
	247	EXCAVATE SPLICE PIT
	250	PLACE MANHOLE
252	REMOVE EXISTING MANHOLE	
255	RELOCATE PRECAST MANHOLE	
256	REPLACE/SUBSTITUTE PRECAST MANHOLE	
260	CONSTRUCT WALL	
270	REMOVE AND RESTORE ASPHALT	
280	REMOVE AND RESTORE CONCRETE	
281	REMOVE AND RESTORE SIDEWALK	
282	REMOVE AND RESTORE CURBING	
300	310	ATTACH CONDUIT TO WALL OR STRUCTURE
	315	DETACH CONDUIT FROM WALL OR STRUCTURE
	320	CORE BORE
	330	ATTACH PULL/SPLICE BOX TO WALL OR STRUCTURE
400	410	PULL CABLE
	411	PULL THROUGH DUCT (INNERDUCT)
	415	REMOVE CABLE FROM CONDUIT
	420	REPOSITION ACTIVE CABLE SLACK
500	510	DIRECT BURY CABLE
	515	EXPOSE DIRECT BURIED CABLE
	516	EXPOSE DIRECT BURIED CABLE AND RELOCATE
	517	REMOVE AND DISPOSE OF CABLE
	520	PLACE AERIAL CABLE
	525	RELOCATE AERIAL CABLE
	526	DELASH AERIAL CABLE
	527	RELASH AERIAL CABLE
	528	REMOVE AERIAL CABLE
	530	PLACE POLE/PUSH BRACE
535	REMOVE POLE/PUSH BRACE	
600	610	JETTING CONDUIT
	620	EMBEDMENT PLOW
	630	DIRECTIONAL BORE
	640	OPEN TRENCH
700	710	PLACE BURIED CABLE MARKERS AND SIGNS/MWCOM WATER CROSSING SIGNS
	711	PLACE ISOLATOR/PROTECTION SYSTEM AT EXISTING HANDHOLES/MANHOLES
	712	REMOVE BURIED CABLE MARKER POST/HARDWARE
	714	REMOVE CONCRETE BURIED CABLE MARKER POST

CLARIFICATION SUMMARY					CFO_DOWNERSGROVE_FDA11_PLD
CLARIFICATION NUMBER	CLARIFICATION NUMBER AND ALPHA	DESCRIPTION	QUANTITY	UNIT	FQPID
400	410	PULL FIBER OPTIC CABLE	6718	LF	FIB:BUR::500266481 FIB:BUR::500266360 FIB:BUR::500266359 FIB:BUR::500266358 FIB:BUR::500266357

REDLINE NOTES



NOT FOR
CONSTRUCTION

PROJECT:

1812BTLK-PE-MCA-9923-1

HINSDALE, IL

CLARIFICATION NO.	QUANTITY
410	6718'

[illegible]

MCImetro
ACCESS TRANSMISSION SERVICES CORP.

OUTSIDE PLANT CONSTRUCTION

TITLE: 1812BTLK-PE-MCA-9923-1

DATE: 4/29/2021

DESIGNER: LEDCOR GROUP

DRAWN BY: S.DEIRMENDJIAN

REVISIONS

DATE	DESCRIPTION	INITIAL

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.

CRAN HUB:
VZB DOWNERS GROVE

PERMIT ID: 9923

SCALE

HORIZONTAL: NA

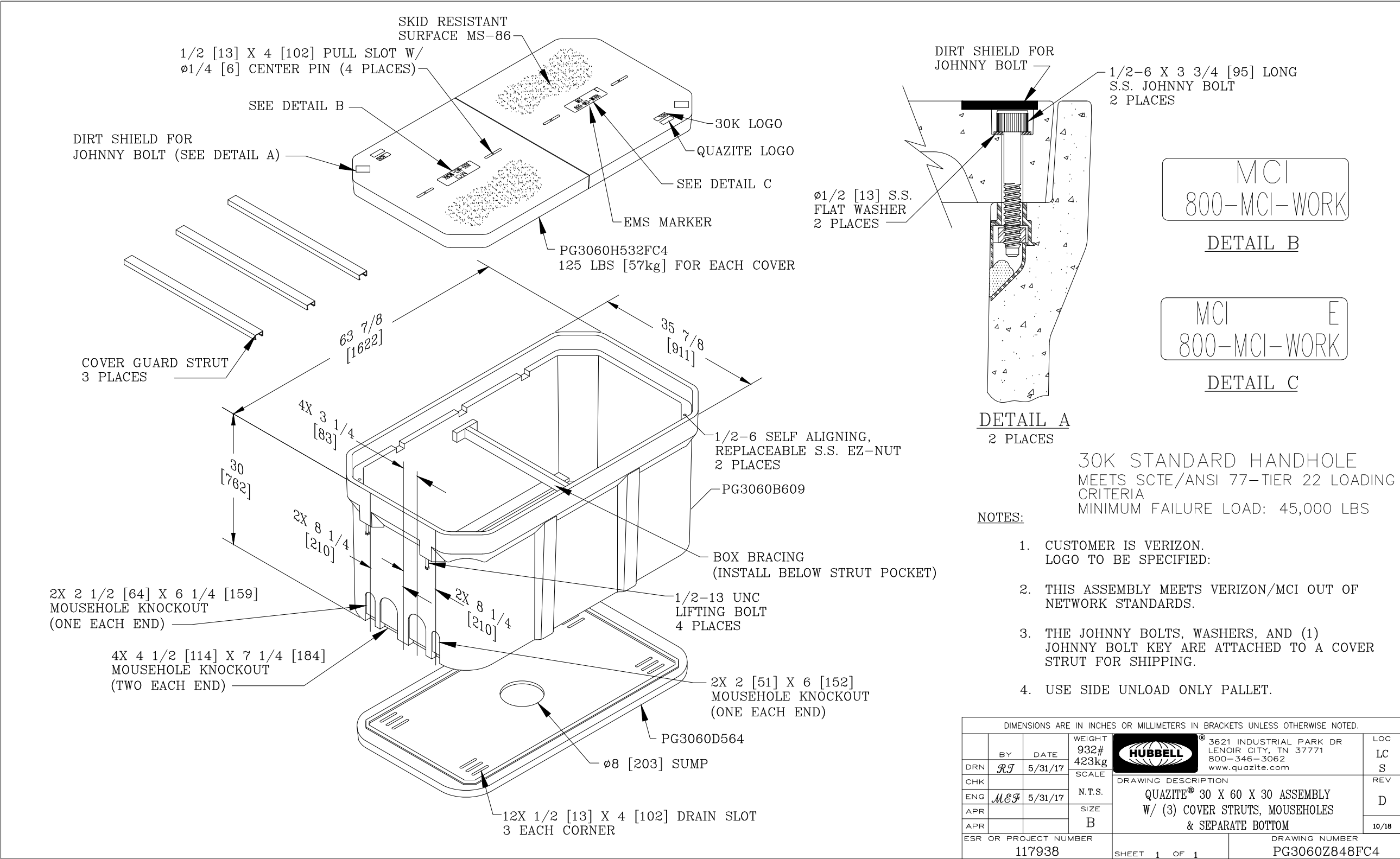
VERTICAL: NA

MP TO MP

SHEET 4 OF 25

FILE: 1812BTLK-PE-MCA-9923-1

2.5' x 5' x 2.5' HANDHOLE DETAILS



IFC

PROJECT:

1812BTLK-PE-MCA-9923-1

HINSDALE, IL

CLARIFICATION NO. QUANTITY

McImetro
ACCESS TRANSMISSION SERVICES CORP.

OUTSIDE PLANT CONSTRUCTION

TITLE: 1812BTLK-PE-MCA-9923-1

DATE: 4/29/2021

DESIGNER: S.DEIRMENDJIAN

DRAWN BY: S.DEIRMENDJIAN

REVISIONS

DATE	DESCRIPTION	INITIAL
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CRAN HUB:
VZB DOWNERS GROVE

PERMIT ID: 9923

SCALE

HORIZONTAL: NTS

VERTICAL: NTS

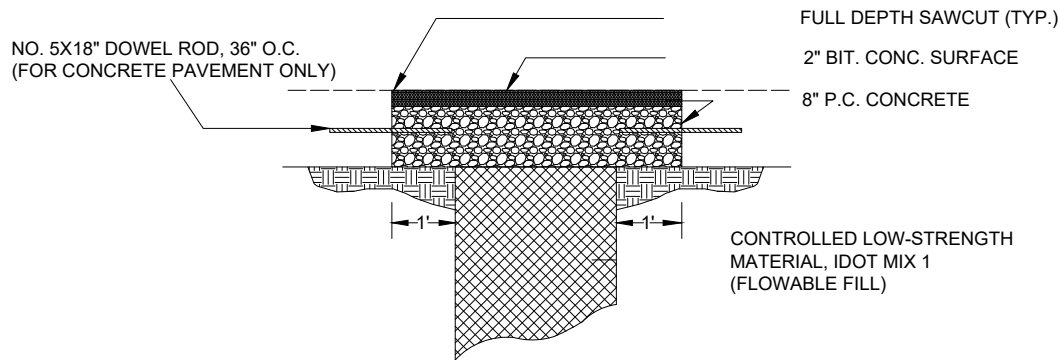
MP TO MP

SHEET OF 25

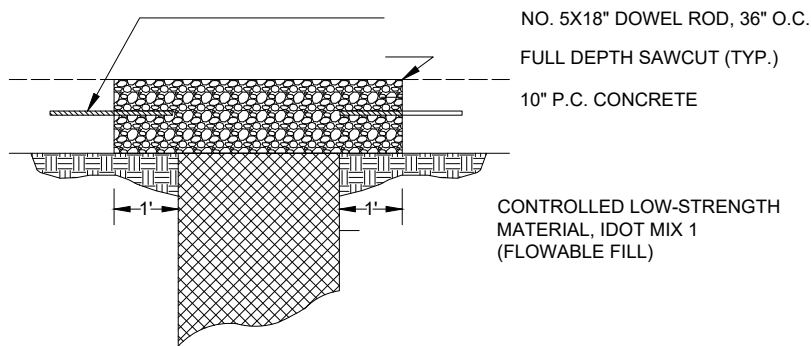
FILE: 1812BTLK-PE-MCA-9923-1



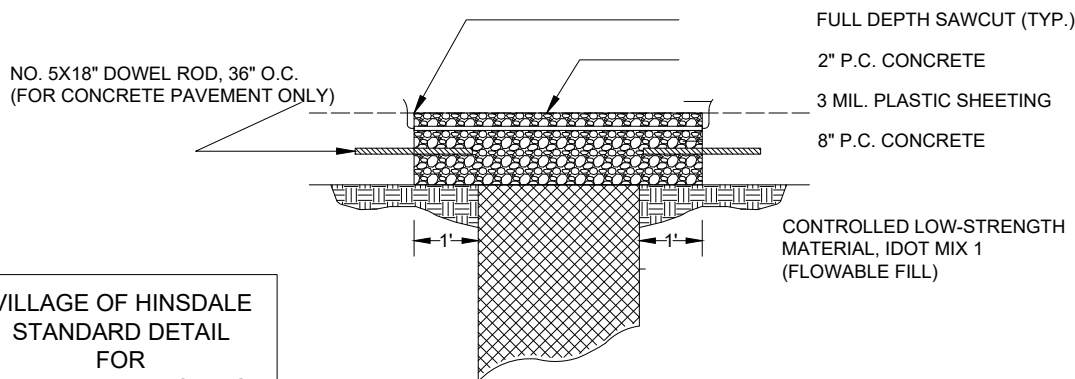
TYPICAL PAVEMENT RESTORATION
FOR SERVICE CONNECTIONS AND UTLITY CROSSINGS



FOR PAVEMENT WITH AGGREGATE BASE AND BITUMINOUS SURFACE
OR
CONCRETE PAVEMENT WITH BITUMINOUS OVERLAY



FOR CONCRETE PAVEMENT



FOR WINTER TEMPORARY

CONTRACTOR MUST CALL FOR AN
INSPECTION PRIOR TO PLACING
THE FLOWABLE FILL AND PRIOR TO
PLACING THE ASPHALT/CONCRETE

VILLAGE OF HINSDALE
STANDARD DETAIL
FOR
PAVEMENT PATCHING
SHEET 4

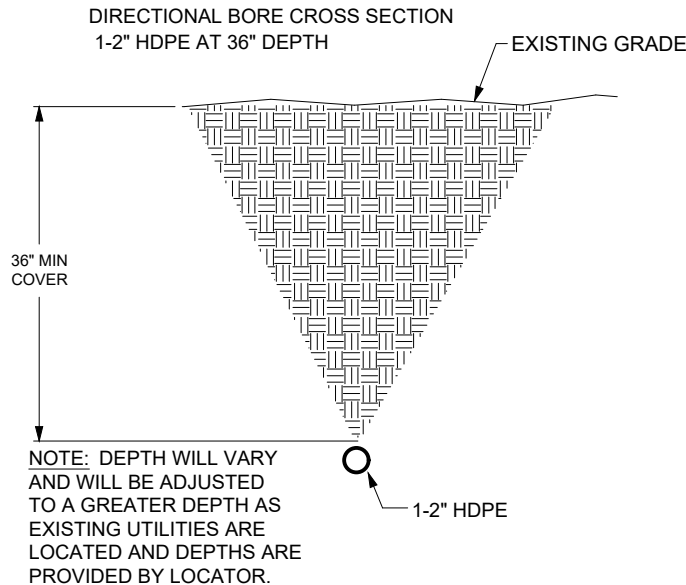
REV:
DATE:
FILE:

PUBLIC UTILITY NOTE:

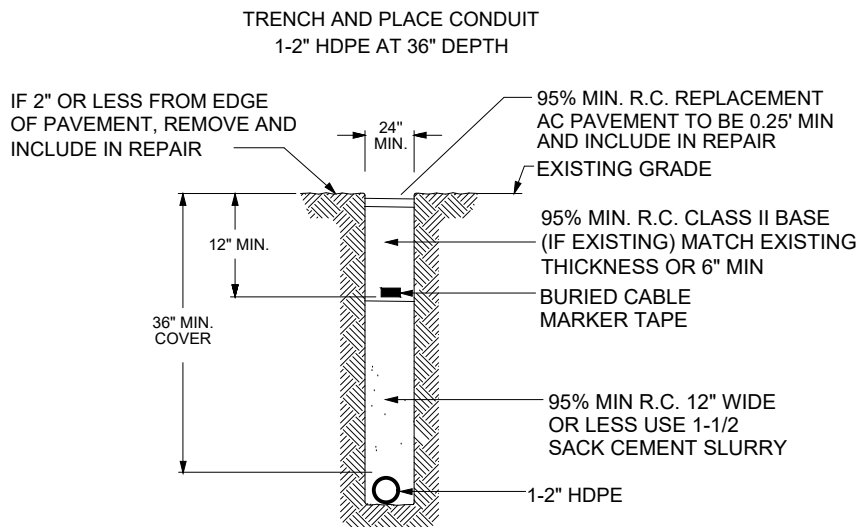
CONTRACTOR SHALL NOTIFY ALL PUBLIC UTILITY COMPANIES (GAS, ELECTRIC, TELEPHONE, SEWER, WATER, ETC) PRIOR TO COMMENCING ANY CONSTRUCTION.

THESE COMPANIES WILL LOCATE, ON THE GROUND, THE LOCATION OF ALL CONDUITS, DUCTS, UNDERGROUND PIPING, ETC., ADJOINING & CROSSING PROPOSED CONSTRUCTION.

TYPICAL DETAIL



TYPICAL DETAIL



ADDITIONAL NOTES:

- EXCEPT AS OTHERWISE NOTED, CONTRACTOR SHALL MAINTAIN A MINIMUM OF 24 INCHES OF SEPARATION FROM EXISTING UTILITIES.
- CONTRACTOR SHALL POTHOLE EACH UTILITY TO DETERMINE SIZE, LOCATION, AND DEPTH PRIOR TO CROSSING.
- CONTRACTOR IS CAUTIONED TO PROTECT SEWER MANHOLES, CATCH BASINS, LATERALS AND INLETS.
- CONTRACTOR WILL PROVIDE BARRICADING TO INSURE CORRECT TRAFFIC CONTROL WHILE MAINTAINING VEHICULAR TRAFFIC AT ALL TIMES.
- RESTORATION TO BE IN COMPLIANCE WITH MCI AND APPLICABLE PERMITTING AGENCIES.
- BONDING AND GROUNDING PER NESC.
- ALL SANITARY SERVICE LINES MUST BE CAMERA INSPECTED UPON COMPLETION OF CABLE INSTALLATION TO INSURE NO DAMAGES.

NOT FOR
CONSTRUCTION

PROJECT:

1812BTLK-PE-MCA-9923-1

HINSDALE, IL

CLARIFICATION NO. QUANTITY

MCImetro
ACCESS TRANSMISSION SERVICES CORP.

OUTSIDE PLANT CONSTRUCTION

TITLE: 1812BTLK-PE-MCA-9923-1

DATE: 4/29/2021

DESIGNER: S.DEIRMENDJIAN

DRAWN BY: S.DEIRMENDJIAN

REVISIONS

DATE	DESCRIPTION	INITIAL
----	----	----
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####	####	####
####	####	####

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CRAN HUB:

VZB DOWNERS GROVE

PERMIT ID: 9923

SCALE

HORIZONTAL: NTS

VERTICAL: NTS

MP TO MP

SHEET 7 OF 25

FILE: 1812BTLK-PE-MCA-9923-1



REDLINE NOTES



NOT FOR
CONSTRUCTION

PROJECT:

1812BTLK-PE-MCA-9923-1

HINSDALE, IL

CLARIFICATION NO.	QUANTITY
410	338'

MCImetro
ACCESS TRANSMISSION SERVICES CORP.

OUTSIDE PLANT CONSTRUCTION

TITLE: 1812BTLK-PE-MCA-9923-1

DATE: 4/29/2021

DESIGNER: LEDCOR GROUP

DRAWN BY: S.DEIRMENDJIAN

REVISIONS

DATE	DESCRIPTION	INITIAL
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PURPOSE WITHOUT SPECIFIC WRITTEN PERMISSION.

CRAN HUB:
VZB DOWNERS GROVE

PERMIT ID: 9923

SCALE

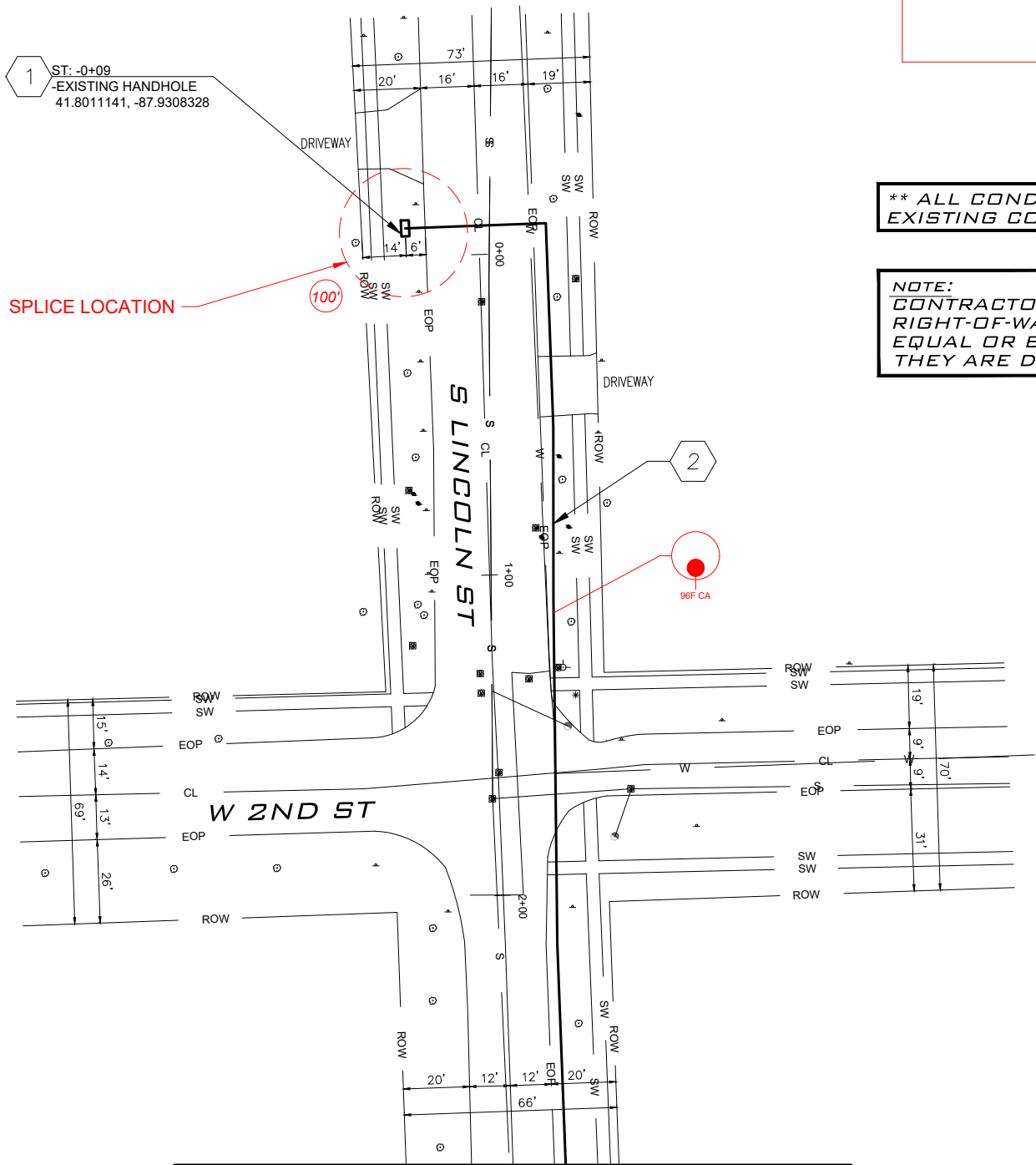
HORIZONTAL: 1"=50'

VERTICAL: 1"=50'

MP _____ TO MP _____

SHEET 8 OF 25

FILE: 1812BTLK-PE-MCA-9923-1



** ALL CONDUIT SHOWN IS EXISTING.
EXISTING CONDUIT SIZE = 2"

NOTE:
CONTRACTOR IS TO PREVENT ANY DAMAGE TO THE
RIGHT-OF-WAY. SIDEWALKS ARE TO BE RESTORED TO
EQUAL OR BETTER CONDITION IN THE EVENT THAT
THEY ARE DISTURBED BY EQUIPMENT.

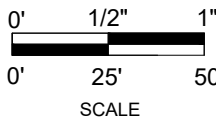
CONSTRUCTION NOTES

- EXISTING HANDHOLE
PLACE 100' OF 96CT FIBER COIL IN HANDHOLE
- PULL 338' OF CABLE THROUGH
EXISTING CONDUIT (CODE 410)
PULL 338' OF 96CT FOC (CODE 410)

MATCH SURVEY STA. 02+84
SEE SHEET 9

SEE SHEETS 6-7

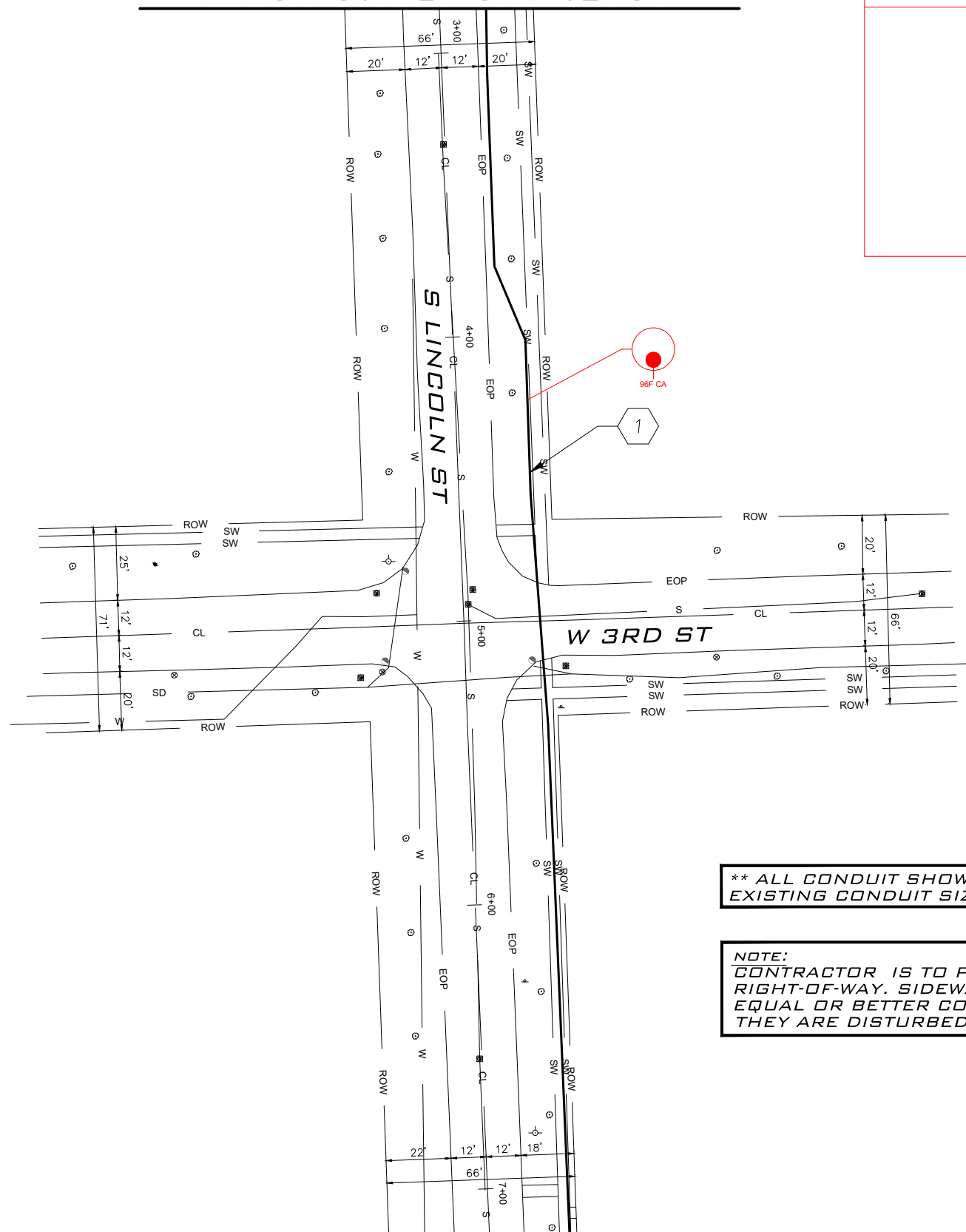
- ADDITIONAL NOTES
- PUBLIC UTILITY NOTES
- BORE DETAILS
- TRENCH DETAILS
- HANDHOLE DETAILS



REDLINE NOTES



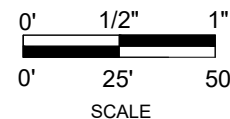
FILE# 1812BTIK-PF-MCA-9923-1



NOTE:
CONTRACTOR IS TO PREVENT ANY DAMAGE TO THE
RIGHT-OF-WAY. SIDEWALKS ARE TO BE RESTORED TO
EQUAL OR BETTER CONDITION IN THE EVENT THAT
THEY ARE DISTURBED BY EQUIPMENT.

1 PULL 431' OF CABLE THROUGH
EXISTING CONDUIT (CODE 410)
PULL 431' OF 96CT FOC (CODE 410)

- ADDITIONAL NOTES
- PUBLIC UTILITY NOTES
- BORE DETAILS
- TRENCH DETAILS
- HANDHOLE DETAILS



REDLINE NOTES



NOT FOR
CONSTRUCTION

PROJECT:

1812BTLK-PE-MCA-9923-1

HINSDALE, IL

CLARIFICATION NO.	QUANTITY
410	625'

MCImetro
ACCESS TRANSMISSION SERVICES CORP.

OUTSIDE PLANT CONSTRUCTION

TITLE: 1812BTLK-PE-MCA-9923-1

DATE: 4/29/2021

DESIGNER: LEDCOR GROUP

DRAWN BY: S.DEIRMENDJIAN

REVISIONS

DATE	DESCRIPTION	INITIAL
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----	----	----

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CRAN HUB:
VZB DOWNERS GROVE

PERMIT ID: 9923

SCALE

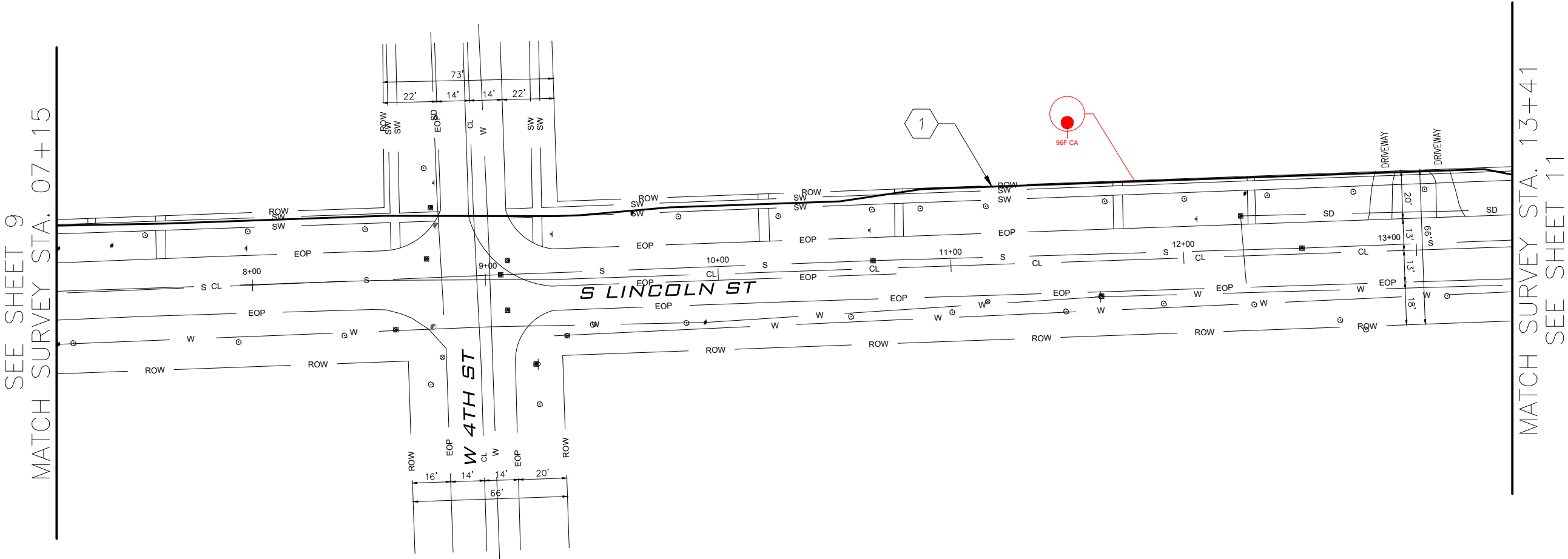
HORIZONTAL: 1"=50'

VERTICAL: 1"=50'

MP _____ TO MP _____

SHEET 10 OF 25

FILE: 1812BTLK-PE-MCA-9923-1



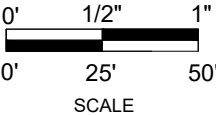
CONSTRUCTION NOTES

- 1 PULL 625' OF CABLE THROUGH EXISTING CONDUIT (CODE 410)
PULL 625' OF 96CT FOC (CODE 410)

** ALL CONDUIT SHOWN IS EXISTING.
EXISTING CONDUIT SIZE = 2"

SEE SHEETS 6-7

- ADDITIONAL NOTES
- PUBLIC UTILITY NOTES
- BORE DETAILS
- TRENCH DETAILS
- HANDHOLE DETAILS



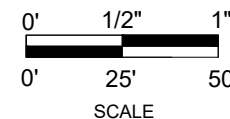
REDLINE NOTES



- ** ALL CONDUIT SHOWN IS EXISTING.
EXISTING CONDUIT SIZE = 2"**

SEE SHEETS 6-7

- ADDITIONAL NOTES
- PUBLIC UTILITY NOTES
- BORE DETAILS
- TRENCH DETAILS
- HANDHOLE DETAILS



REDLINE NOTES



NOT FOR
CONSTRUCTION

PROJECT:

1812BTLK-PE-MCA-9923-1

HINSDALE, IL

CLARIFICATION NO.	QUANTITY
410	625'

MCImetro
ACCESS TRANSMISSION SERVICES CORP.

OUTSIDE PLANT CONSTRUCTION

TITLE: 1812BTLK-PE-MCA-9923-1

DATE: 4/29/2021

DESIGNER: LEDCOR GROUP

DRAWN BY: S.DEIRMENDJIAN

REVISIONS

DATE	DESCRIPTION	INITIAL
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CRAN HUB:

VZB DOWNERS GROVE

PERMIT ID: 9923

SCALE

HORIZONTAL: 1"=50'

VERTICAL: 1"=50'

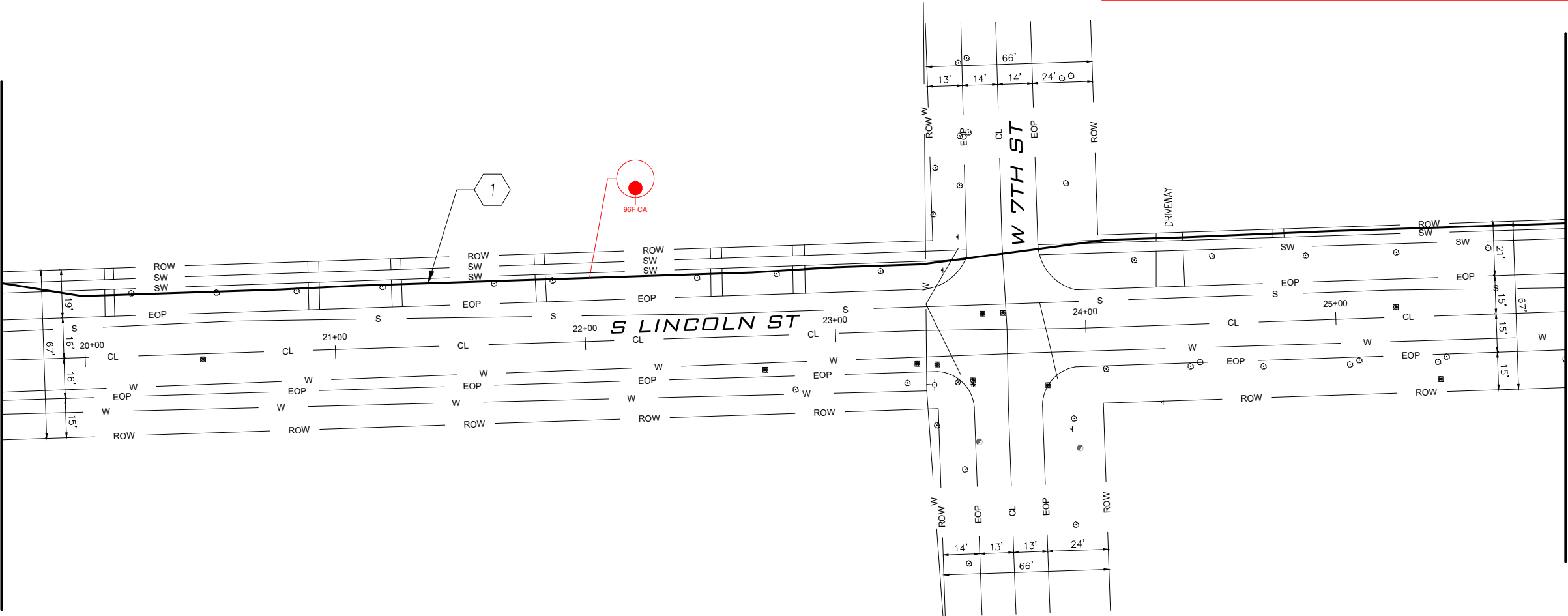
MP _____ TO MP _____

SHEET 12 OF 25

FILE: 1812BTLK-PE-MCA-9923-1

SEE SHEET 11
MATCH SURVEY STA. 19+66

MATCH SURVEY STA. 25+91
SEE SHEET 13



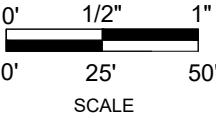
** ALL CONDUIT SHOWN IS EXISTING.
EXISTING CONDUIT SIZE = 2"

CONSTRUCTION NOTES

- 1 PULL 625' OF CABLE THROUGH
EXISTING CONDUIT (CODE 410)
PULL 625' OF 96CT FOC (CODE 410)

SEE SHEETS 6-7

- ADDITIONAL NOTES
- PUBLIC UTILITY NOTES
- BORE DETAILS
- TRENCH DETAILS
- HANDHOLE DETAILS



REDLINE NOTES



NOT FOR
CONSTRUCTION

PROJECT:

1812BTLK-PE-MCA-9923-1

HINSDALE, IL

CLARIFICATION NO.

QUANTITY

410

625'

McMetro
ACCESS TRANSMISSION SERVICES CORP.

OUTSIDE PLANT CONSTRUCTION

TITLE: 1812BTLK-PE-MCA-9923-1

DATE: 4/29/2021

DESIGNER: LEDCOR GROUP

DRAWN BY: S.DEIRMENDJIAN

REVISIONS

DATE	DESCRIPTION	INITIAL
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CRAN HUB:

VZB DOWNERS GROVE

PERMIT ID: 9923

SCALE

HORIZONTAL: 1"=50'

VERTICAL: 1"=50'

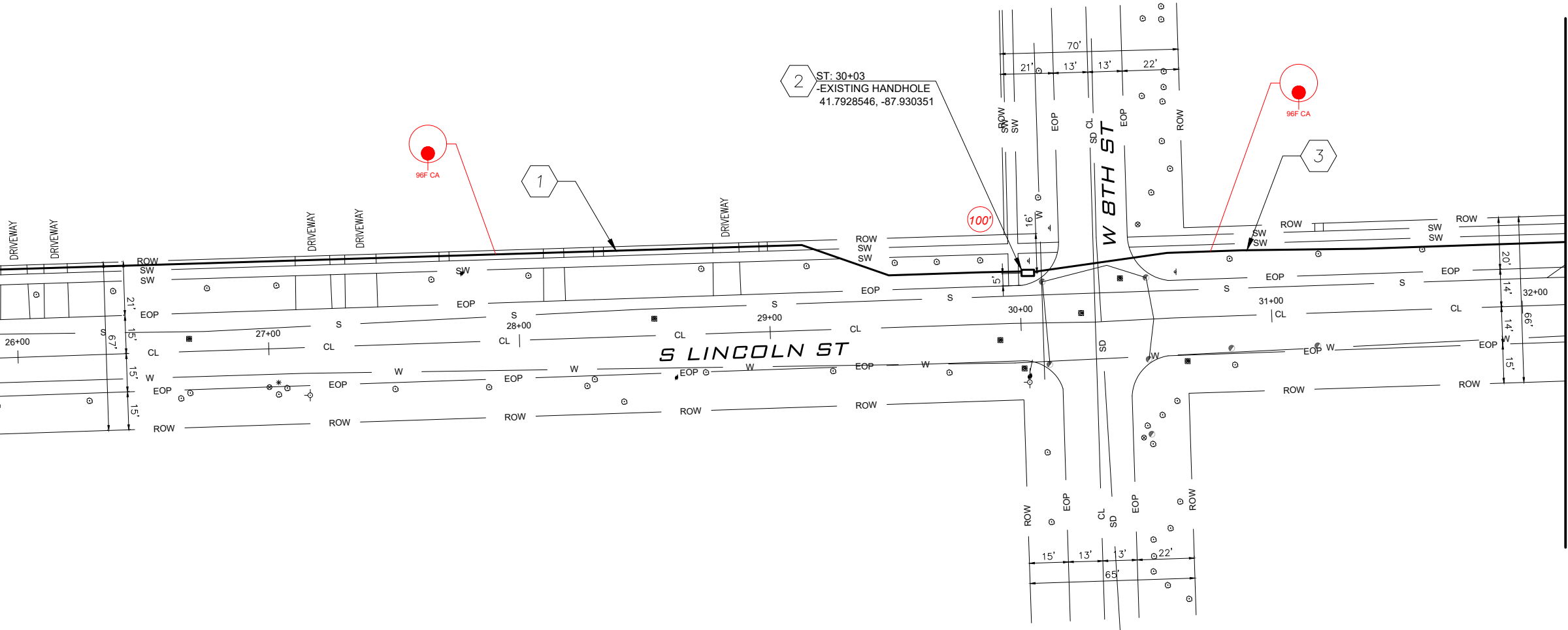
MP _____ TO MP _____

SHEET 13 OF 25

FILE: 1812BTLK-PE-MCA-9923-1

SEE SHEET 12
MATCH SURVEY STA. 25+91

MATCH SURVEY STA. 32+17
SEE SHEET 14



CONSTRUCTION NOTES

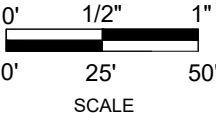
- 1
- PULL 412' OF CABLE THROUGH
EXISTING CONDUIT (CODE 410)
PULL 412' OF 96CT FOC (CODE 410)
- 2
- EXISTING HANDHOLE
PLACE 100' OF 96CT FIBER COIL IN HANDHOLE
- 3
- PULL 213' OF CABLE THROUGH
EXISTING CONDUIT (CODE 410)
PULL 213' OF 96CT FOC (CODE 410)

** ALL CONDUIT SHOWN IS EXISTING.
EXISTING CONDUIT SIZE = 2"

NOTE:
CONTRACTOR IS TO PREVENT ANY DAMAGE TO THE
RIGHT-OF-WAY. SIDEWALKS ARE TO BE RESTORED TO
EQUAL OR BETTER CONDITION IN THE EVENT THAT
THEY ARE DISTURBED BY EQUIPMENT.

SEE SHEETS 6-7

- ADDITIONAL NOTES
- PUBLIC UTILITY NOTES
- BORE DETAILS
- TRENCH DETAILS
- HANDHOLE DETAILS



REDLINE NOTES



NOT FOR
CONSTRUCTION

PROJECT:

1812BTLK-PE-MCA-9923-1

HINSDALE, IL

CLARIFICATION NO.	QUANTITY
410	748'

MCImetro
ACCESS TRANSMISSION SERVICES CORP.

OUTSIDE PLANT CONSTRUCTION

TITLE: 1812BTLK-PE-MCA-9923-1

DATE: 4/29/2021

DESIGNER: LEDCOR GROUP

DRAWN BY: S.DEIRMENDJIAN

REVISIONS

DATE	DESCRIPTION	INITIAL
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PURPOSE WITHOUT SPECIFIC WRITTEN PERMISSION.

CRAN HUB:

VZB DOWNERS GROVE

PERMIT ID: 9923

SCALE

HORIZONTAL: 1"=50'

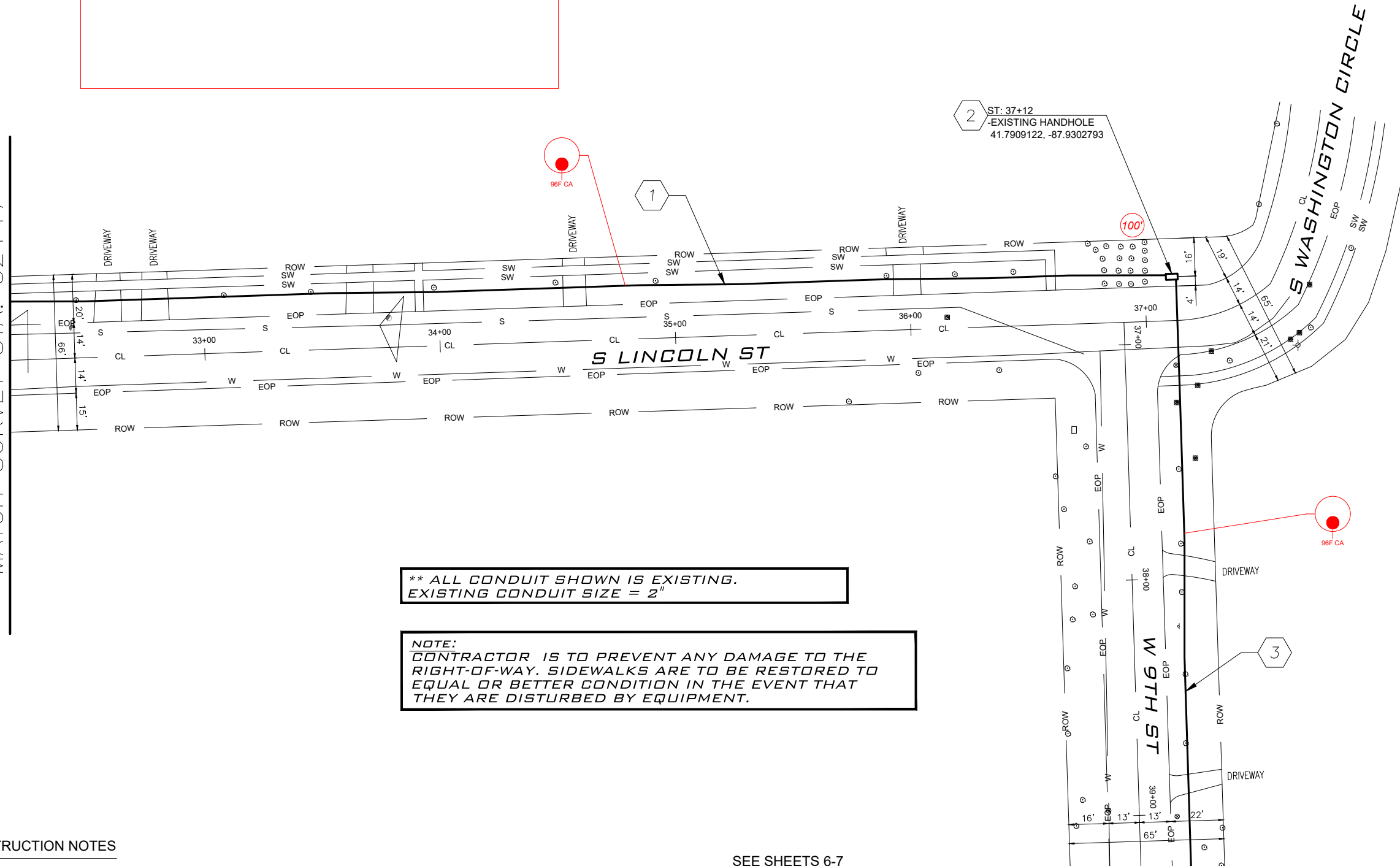
VERTICAL: 1"=50'

MP _____ TO MP _____

SHEET 14 OF 25

FILE: 1812BTLK-PE-MCA-9923-1

SEE SHEET 13
MATCH SURVEY STA. 32+17



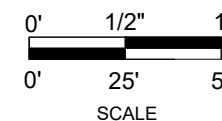
CONSTRUCTION NOTES

- PULL 494' OF CABLE THROUGH EXISTING CONDUIT (CODE 410)
PULL 494' OF 96CT FOC (CODE 410)
- EXISTING HANDHOLE
PLACE 100' OF 96CT FIBER COIL IN HANDHOLE
- PULL 254' OF CABLE THROUGH EXISTING CONDUIT (CODE 410)
PULL 254' OF 96CT FOC (CODE 410)

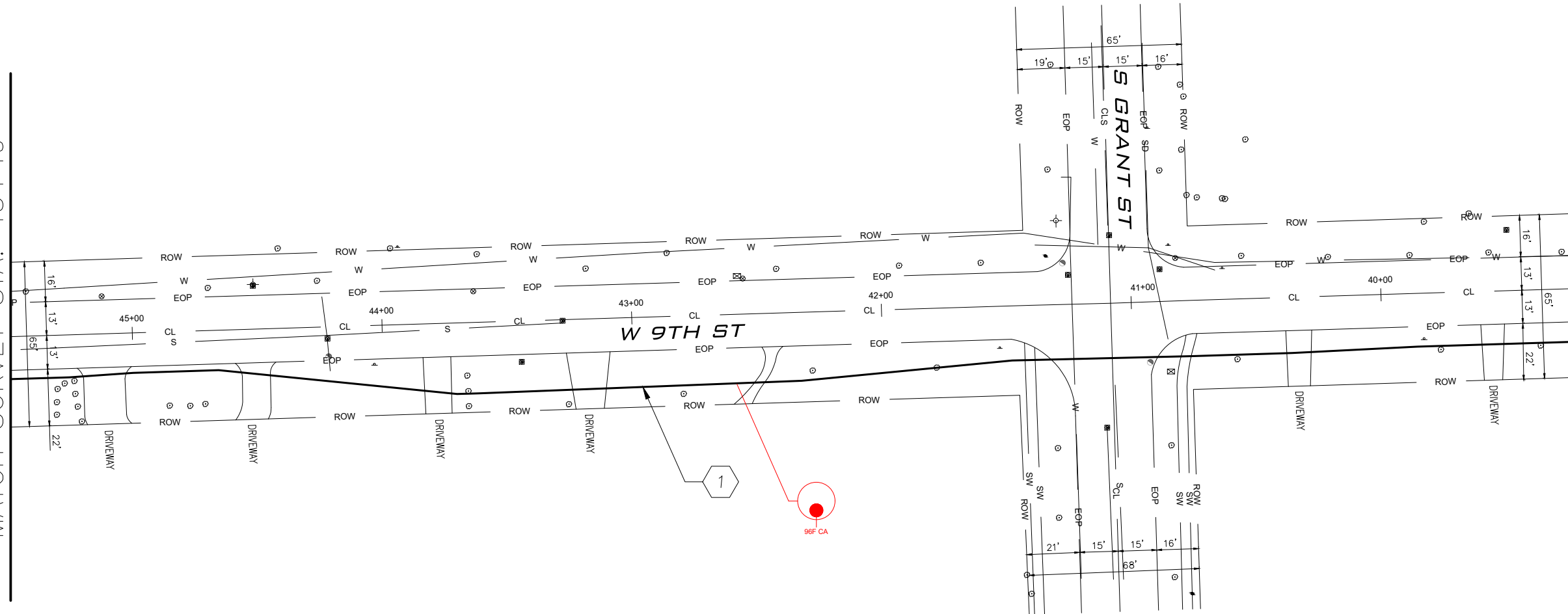
SEE SHEETS 6-7

- ADDITIONAL NOTES
- PUBLIC UTILITY NOTES
- BORE DETAILS
- TRENCH DETAILS
- HANDHOLE DETAILS

MATCH SURVEY STA. 39+23
SEE SHEET 15



SEE SHEET 16
MATCH SURVEY STA. 45+49



MATCH SURVEY STA. 39+23
SEE SHEET 14

REDLINE NOTES



NOT FOR
CONSTRUCTION

PROJECT:

1812BTLK-PE-MCA-9923-1

HINSDALE, IL

CLARIFICATION NO.	QUANTITY
410	625'

MCImetro
ACCESS TRANSMISSION SERVICES CORP.

OUTSIDE PLANT CONSTRUCTION

TITLE: 1812BTLK-PE-MCA-9923-1

DATE: 4/29/2021

DESIGNER: LEDCOR GROUP

DRAWN BY: S.DEIRMENDJIAN

REVISIONS

DATE	DESCRIPTION	INITIAL
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CRAN HUB:
VZB DOWNERS GROVE

PERMIT ID: 9923

SCALE

HORIZONTAL: 1"=50'

VERTICAL: 1"=50'

MP _____ TO MP _____

SHEET 15 OF 25

FILE: 1812BTLK-PE-MCA-9923-1

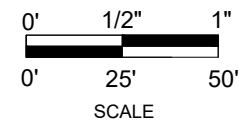
CONSTRUCTION NOTES

- 1 PULL 494' OF CABLE THROUGH
EXISTING CONDUIT (CODE 410)
PULL 494' OF 96CT FOC (CODE 410)

SEE SHEETS 6-7

- ADDITIONAL NOTES
- PUBLIC UTILITY NOTES
- BORE DETAILS
- TRENCH DETAILS
- HANDHOLE DETAILS

** ALL CONDUIT SHOWN IS EXISTING.
EXISTING CONDUIT SIZE = 2"



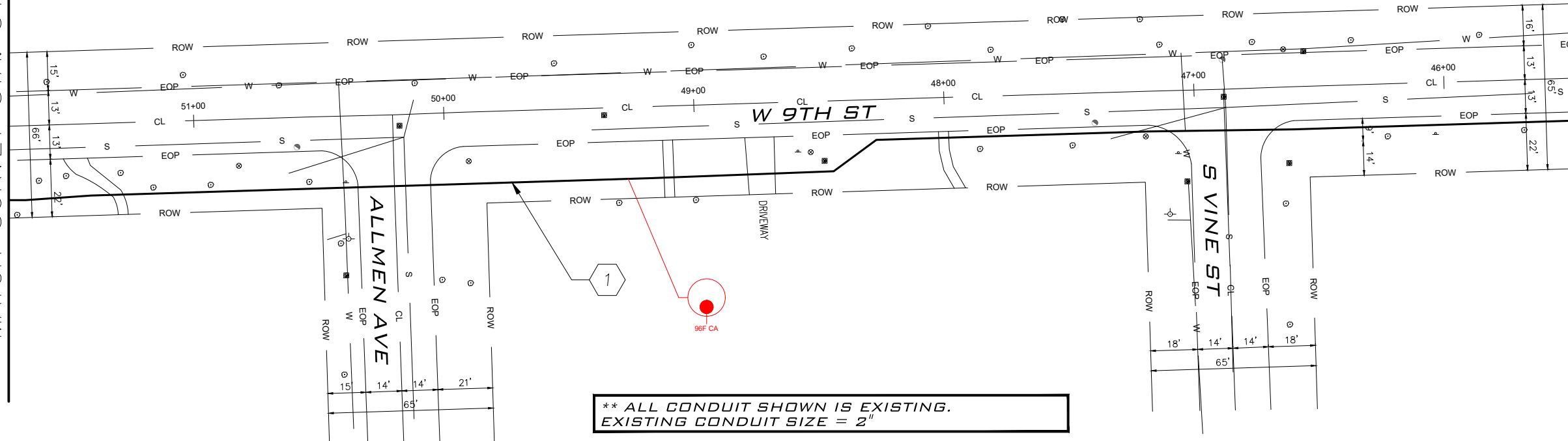
REDLINE NOTES



TITLE: 1812BTLK-PE-MCA-9923-1

FILE: 1812BTLK-PE-MCA-9923-1

MATCH SURVEY STA. 45+49
SEE SHEET 15



**** ALL CONDUIT SHOWN IS EXISTING.
EXISTING CONDUIT SIZE = 2"**

1 PULL 625' OF CABLE THROUGH
EXISTING CONDUIT (CODE 410)
PULL 625' OF 96CT FOC (CODE 410)



REDLINE NOTES



NOT FOR
CONSTRUCTION

PROJECT:

1812BTLK-PE-MCA-9923-1

HINSDALE, IL

CLARIFICATION NO.	QUANTITY
410	545'

McImetro
ACCESS TRANSMISSION SERVICES CORP.

OUTSIDE PLANT CONSTRUCTION

TITLE: 1812BTLK-PE-MCA-9923-1

DATE: 4/29/2021

DESIGNER: LEDCOR GROUP

DRAWN BY: S.DEIRMENDJIAN

REVISIONS

DATE	DESCRIPTION	INITIAL
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CRAN HUB:

VZB DOWNERS GROVE

PERMIT ID: 9923

SCALE

HORIZONTAL: 1"=50'

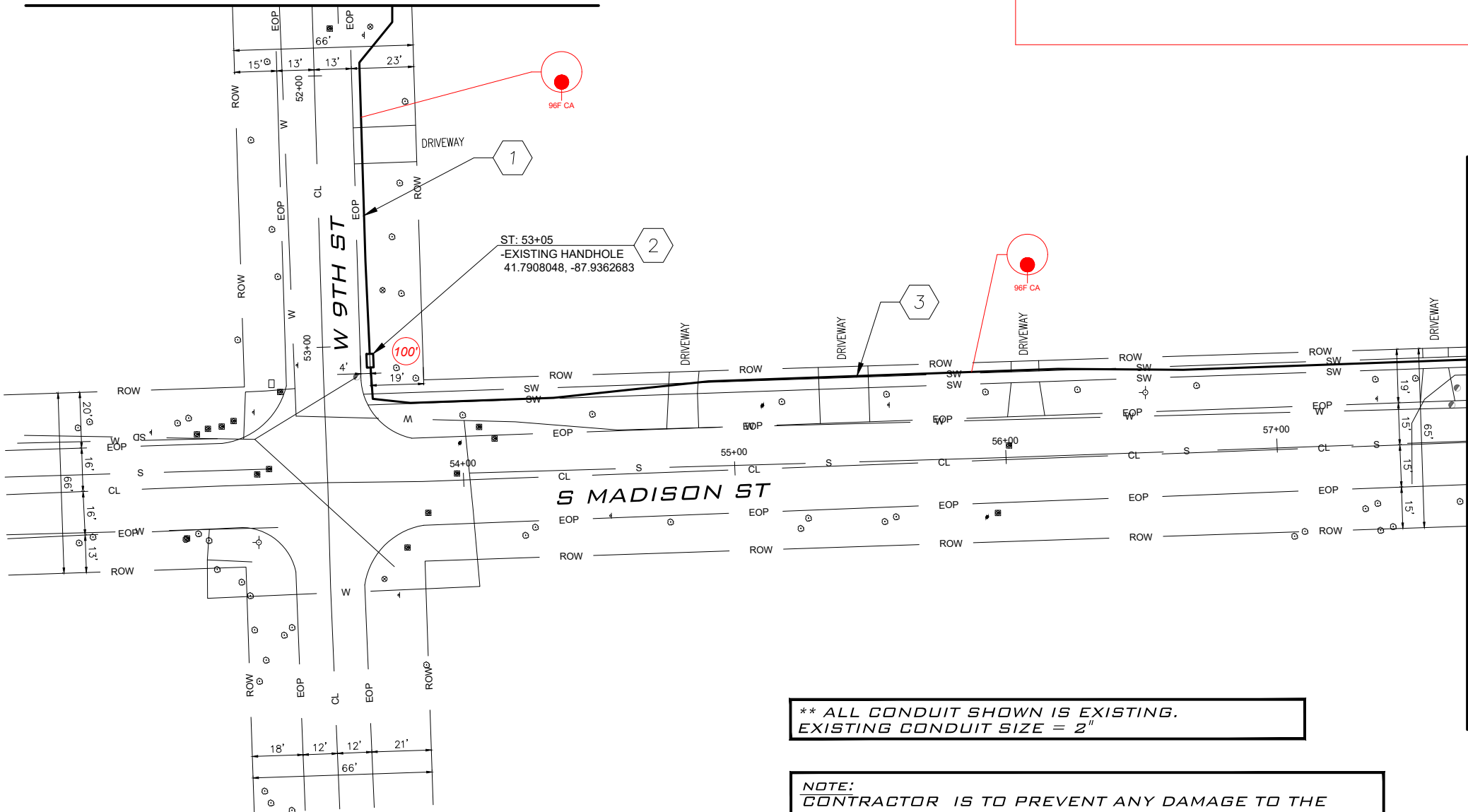
VERTICAL: 1"=50'

MP _____ TO MP _____

SHEET 17 OF 25

FILE: 1812BTLK-PE-MCA-9923-1

SEE SHEET 16
MATCH SURVEY STA. 51+74



MATCH SURVEY STA. 57+70
SEE SHEET 18

** ALL CONDUIT SHOWN IS EXISTING.
EXISTING CONDUIT SIZE = 2"

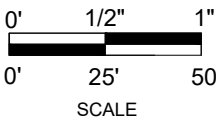
NOTE:
CONTRACTOR IS TO PREVENT ANY DAMAGE TO THE
RIGHT-OF-WAY. SIDEWALKS ARE TO BE RESTORED TO
EQUAL OR BETTER CONDITION IN THE EVENT THAT
THEY ARE DISTURBED BY EQUIPMENT.

CONSTRUCTION NOTES

- PULL 131' OF CABLE THROUGH
EXISTING CONDUIT (CODE 410)
PULL 131' OF 96CT FOC (CODE 410)
- EXISTING HANDHOLE
PLACE 100' OF 96CT FIBER COIL IN HANDHOLE
- PULL 414' OF CABLE THROUGH
EXISTING CONDUIT (CODE 410)
PULL 414' OF 96CT FOC (CODE 410)

SEE SHEETS 6-7

- ADDITIONAL NOTES
- PUBLIC UTILITY NOTES
- BORE DETAILS
- TRENCH DETAILS
- HANDHOLE DETAILS



REDLINE NOTES

** ALL CONDUIT SHOWN IS EXISTING.
EXISTING CONDUIT SIZE = 2"

NOTE:
CONTRACTOR IS TO PREVENT ANY DAMAGE TO THE
RIGHT-OF-WAY. SIDEWALKS ARE TO BE RESTORED TO
EQUAL OR BETTER CONDITION IN THE EVENT THAT
THEY ARE DISTURBED BY EQUIPMENT.

NOT FOR
CONSTRUCTION

PROJECT:

1812BTLK-PE-MCA-9923-1

HINSDALE, IL

CLARIFICATION NO.	QUANTITY
410	306'

McMetro
ACCESS TRANSMISSION SERVICES CORP.

OUTSIDE PLANT CONSTRUCTION

TITLE: 1812BTLK-PE-MCA-9923-1

DATE: 4/29/2021

DESIGNER: LEDCOR GROUP

DRAWN BY: S.DEIRMENDJIAN

REVISIONS

DATE	DESCRIPTION	INITIAL
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EXCEPT AS MAY BE OTHERWISE PROVIDED BY CONTRACT,
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NOT BE REPRODUCED, COPIED, OR USED FOR ANY
PURPOSE WITHOUT SPECIFIC WRITTEN PERMISSION.

CRAN HUB:
VZB DOWNERS GROVE

PERMIT ID: 9923

SCALE

HORIZONTAL: 1"=50'

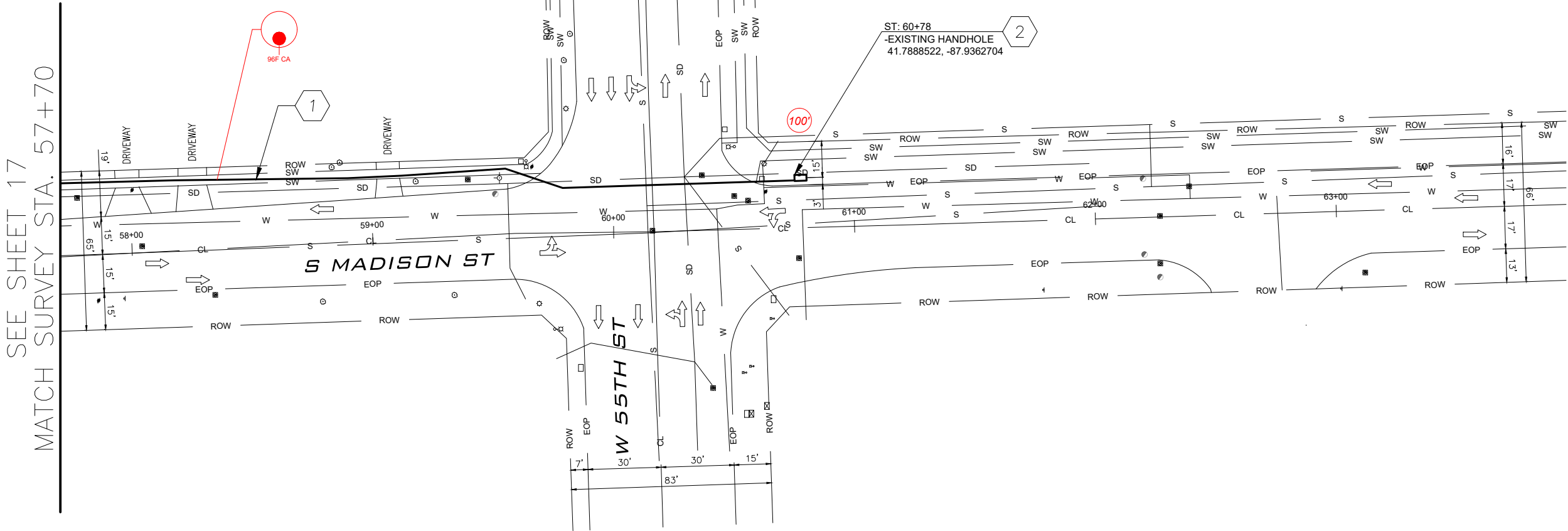
VERTICAL: 1"=50'

MP TO MP

SHEET 18 OF 25

FILE: 1812BTLK-PE-MCA-9923-1

5503 S MADISON ST.
HINSDALE, IL 60521

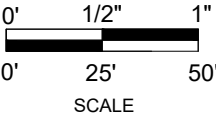


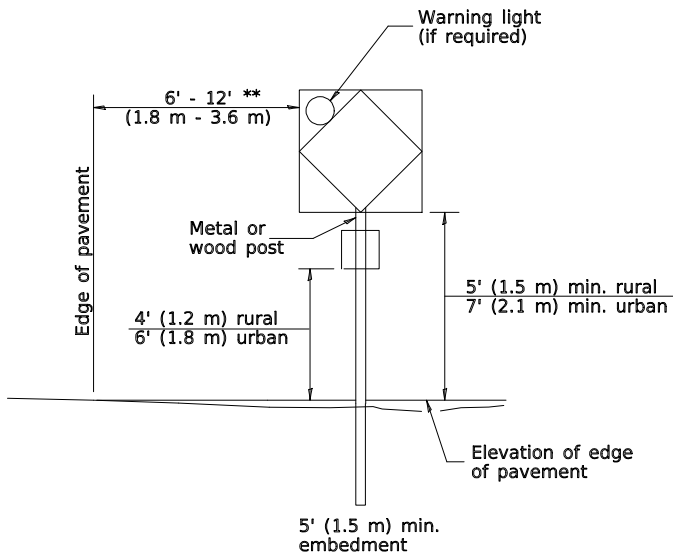
CONSTRUCTION NOTES

- 1
- PULL 306' OF CABLE THROUGH
EXISTING CONDUIT (CODE 410)
PULL 306' OF 96CT FOC (CODE 410)
- 2
- EXISTING HANDHOLE
PLACE 100' OF 96CT FIBER COIL IN HANDHOLE

SEE SHEETS 6-7

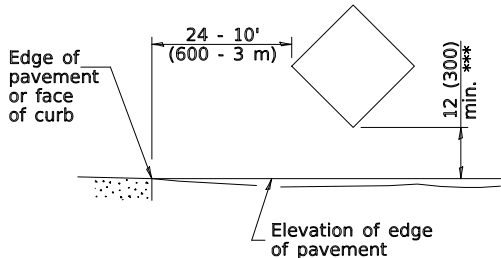
- ADDITIONAL NOTES
- PUBLIC UTILITY NOTES
- BORE DETAILS
- TRENCH DETAILS
- HANDHOLE DETAILS





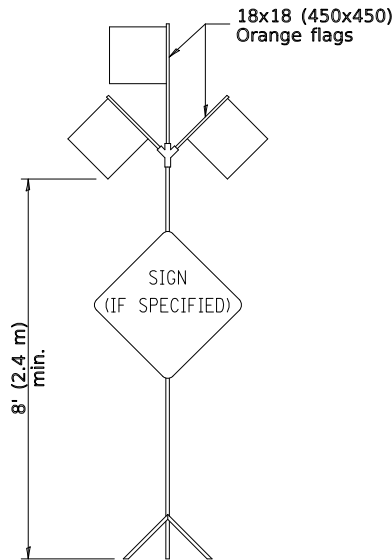
POST MOUNTED SIGNS

** When curb or paved shoulder are present this dimension shall be 24 (600) to the face of curb or 6' (1.8 m) to the outside edge of the paved shoulder.



SIGNS ON TEMPORARY SUPPORTS

*** When work operations exceed four days, this dimension shall be 5' (1.5 m) min. If located behind other devices, the height shall be sufficient to be seen completely above the devices.



HIGH LEVEL WARNING DEVICE

ROAD
CONSTRUCTION
NEXT X MILES

END
CONSTRUCTION

G20-1104(0)-6036

G20-1105(0)-6024

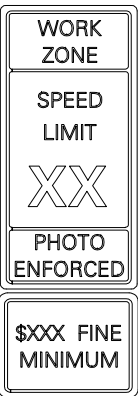
This signing is required for all projects 2 miles (3200 m) or more in length.

ROAD CONSTRUCTION NEXT X MILES sign shall be placed 500' (150 m) in advance of project limits.

END CONSTRUCTION sign shall be erected at the end of the job unless another job is within 2 miles (3200 m).

Dual sign displays shall be utilized on multi-lane highways.

WORK LIMIT SIGNING



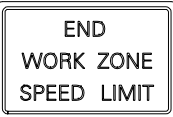
W21-III5(0)-3618

R2-1-3648

R10-1108p-3618 ****

R2-1106p-3618

Sign assembly as shown on Standards or as allowed by District Operations.

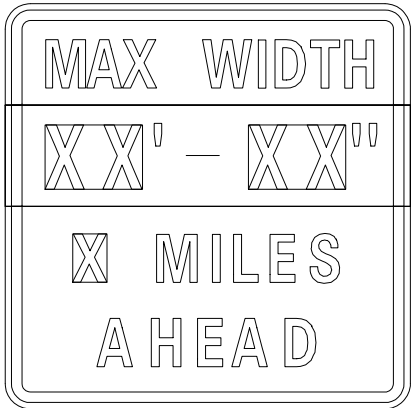


G20-1103-6036

This sign shall be used when the above sign assembly is used.

HIGHWAY CONSTRUCTION
SPEED ZONE SIGNS

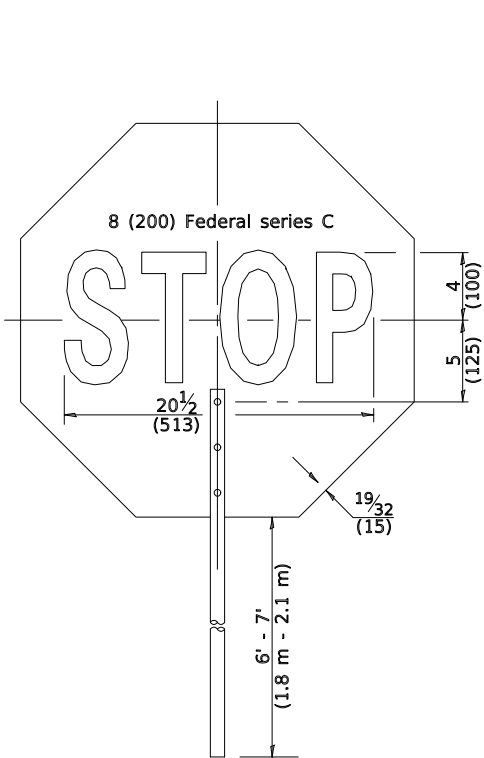
**** R10-1108p shall only be used along roadways under the jurisdiction of the State.



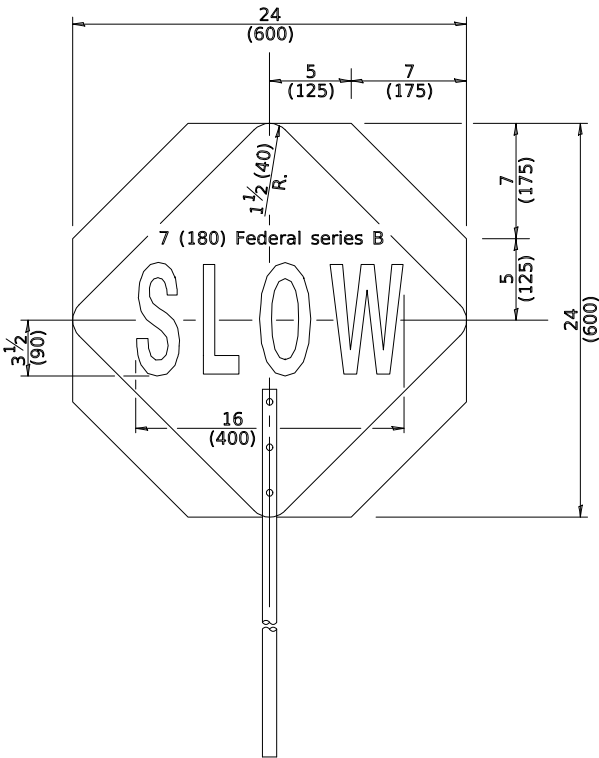
W12-1103-4848

WIDTH RESTRICTION SIGN

XX'-XX" width and X miles are variable.



FRONT SIDE



REVERSE SIDE

FLAGGER TRAFFIC CONTROL SIGN

Illinois Department of Transportation

APPROVED January 1, 2019
ENGINEER OF SAFETY PROG. AND ENGINEERING

APPROVED January 1, 2019
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-13



IFC

PROJECT:

1812BTLK-PE-MCA-9923-1

HINSDALE, IL

CLARIFICATION NO. QUANTITY

MCImetro
ACCESS TRANSMISSION SERVICES CORP.

OUTSIDE PLANT CONSTRUCTION

TITLE: 1812BTLK-PE-MCA-9923-1

DATE: 4/29/2021

DESIGNER: S.DEIRMENDJIAN

DRAWN BY: S.DEIRMENDJIAN

REVISIONS

DATE	DESCRIPTION	INITIAL
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####	####	####
####	####	####

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CRAN HUB:
VZB DOWNERS GROVE

PERMIT ID: 9923

SCALE

HORIZONTAL: NTS

VERTICAL: NTS

MP TO MP

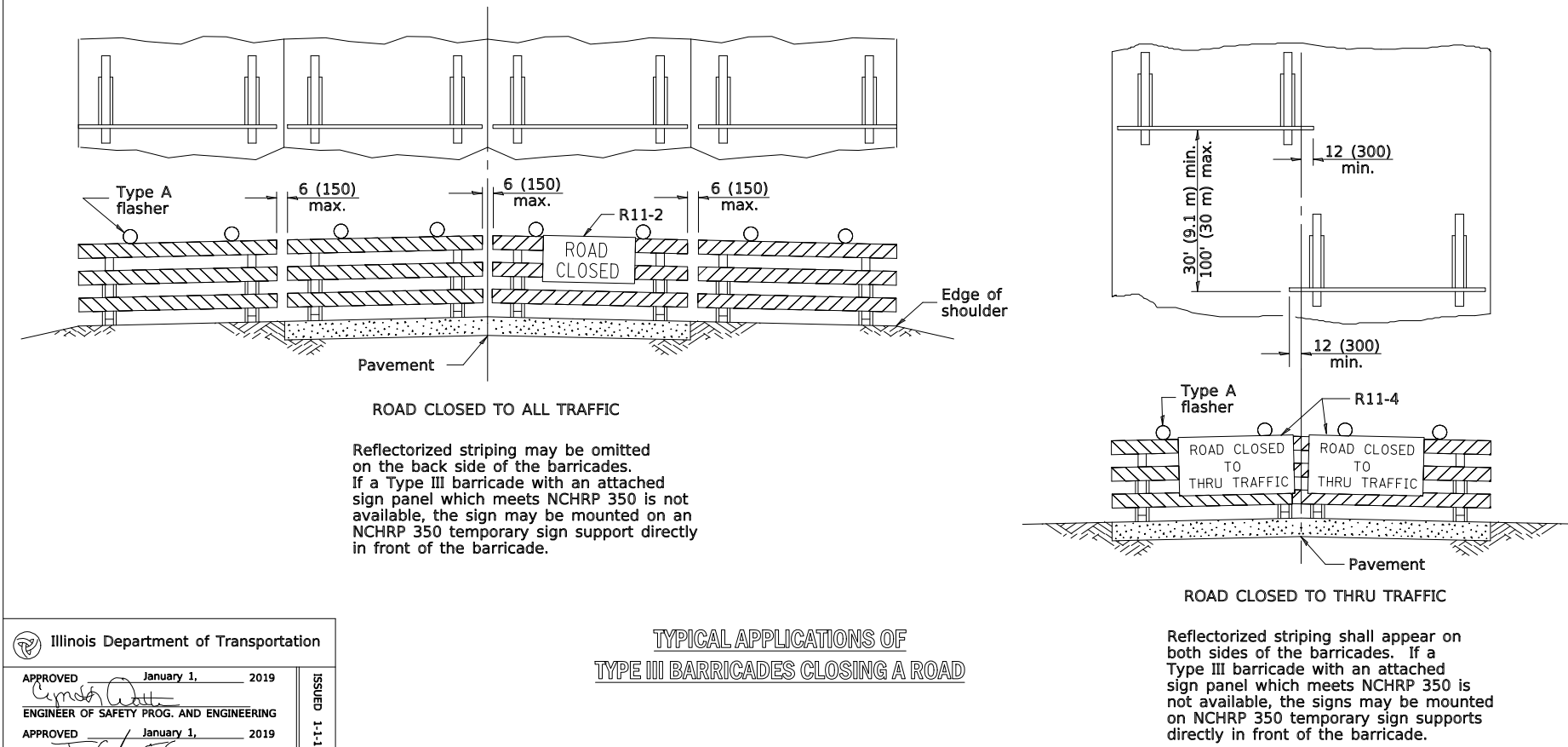
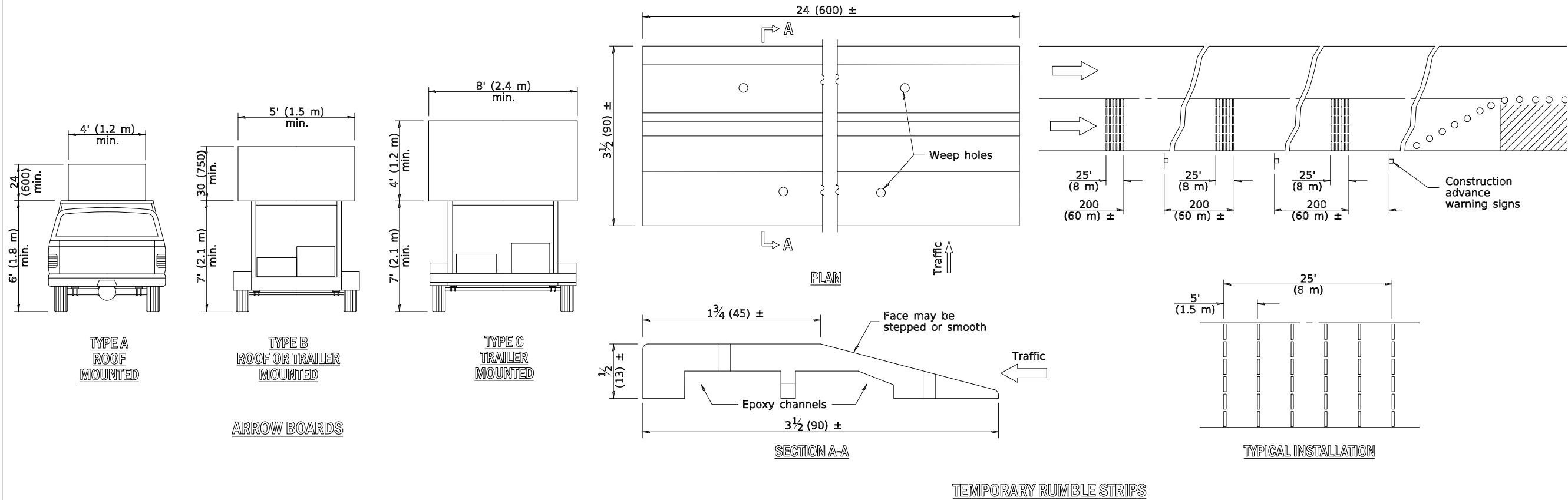
SHEET OF 25

FILE: 1812BTLK-PE-MCA-9923-1

TRAFFIC CONTROL
DEVICES

(Sheet 2 of 3)

STANDARD 701901-08



Illinois Department of Transportation

APPROVED January 1, 2019
ENGINEER OF SAFETY PROG. AND ENGINEERING

APPROVED January 1, 2019
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-13

TYPICAL APPLICATIONS OF
TYPE III BARRICADES CLOSING A ROAD

Reflectorized striping shall appear on both sides of the barricades. If a Type III barricade with an attached sign panel which meets NCHRP 350 is not available, the signs may be mounted on NCHRP 350 temporary sign supports directly in front of the barricade.

TRAFFIC CONTROL
DEVICES

(Sheet 3 of 3)

STANDARD 701901-08



IFC

PROJECT:
1812BTLK-PE-MCA-9923-1
HINSDALE, IL
CLARIFICATION NO. QUANTITY
MCImetro
ACCESS TRANSMISSION SERVICES CORP.
OUTSIDE PLANT CONSTRUCTION
TITLE: 1812BTLK-PE-MCA-9923-1

DATE: 4/29/2021
DESIGNER: S.DEIRMENDJIAN
DRAWN BY: S.DEIRMENDJIAN

REVISIONS
DATE DESCRIPTION INITIAL

####

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CRAN HUB:
VZB DOWNERS GROVE
PERMIT ID: 9923
SCALE
HORIZONTAL: NTS
VERTICAL: NTS
MP TO MP
SHEET OF 25
FILE: 1812BTLK-PE-MCA-9923-1

IFC

1812BTLK-PE-MCA-9923-1

HINSDALE, IL

[illegible]

OUTSIDE PLANT CONSTRUCTION

TITLE: 1812BTLK-PE-MCA-9923-1

4/29/2021

S.DEIRMENDJIAN

S.DEIRMENDJIAN

REVISIONS

DATE	DESCRIPTION	INITIAL
####	####	####
####	####	####

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CRAN HUB:
WZB DOWNERS GROVE

PERMIT ID: 9923

SCAI F

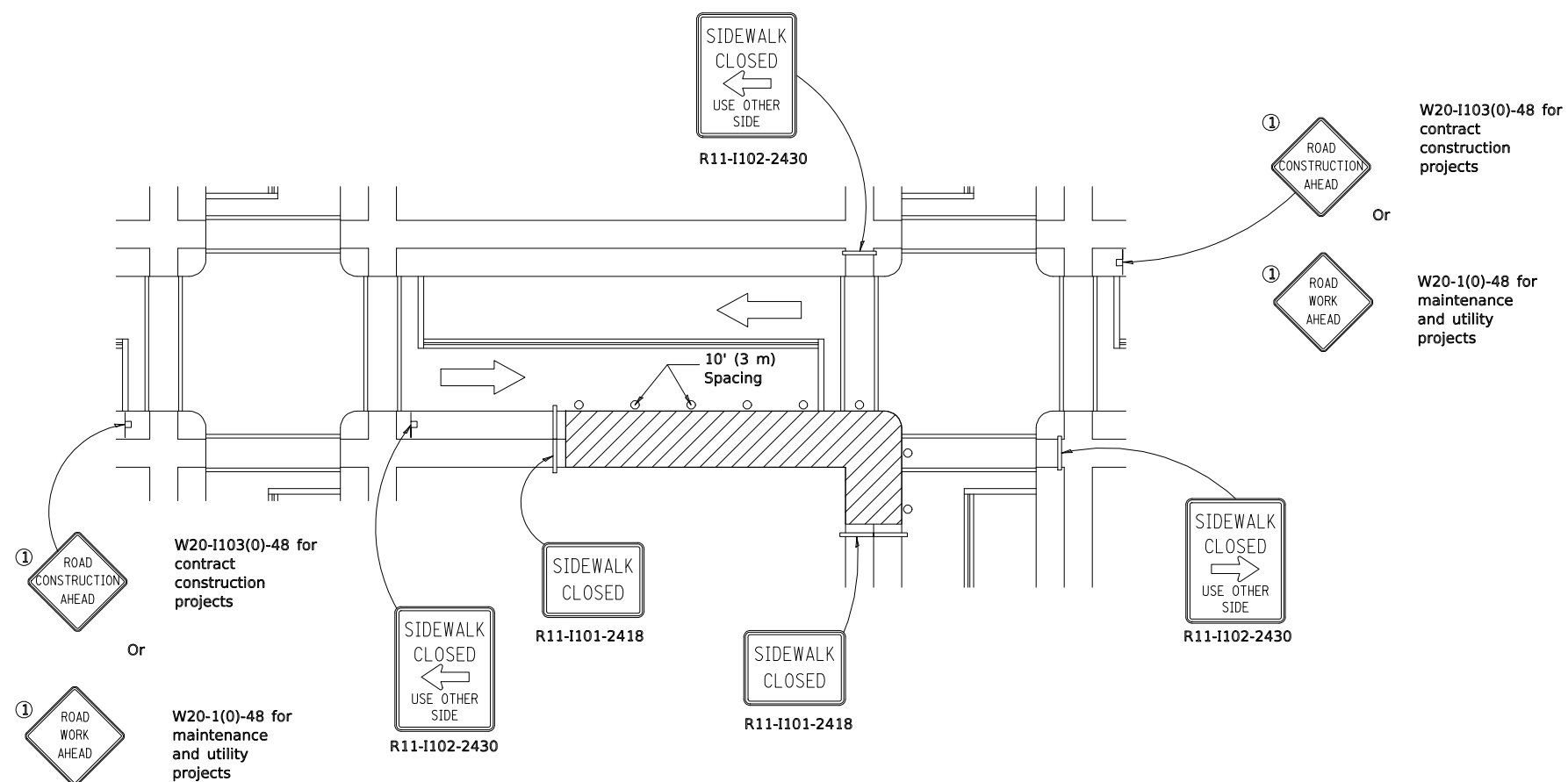
HORIZONTAL: NTS

VERTICAL · NTS

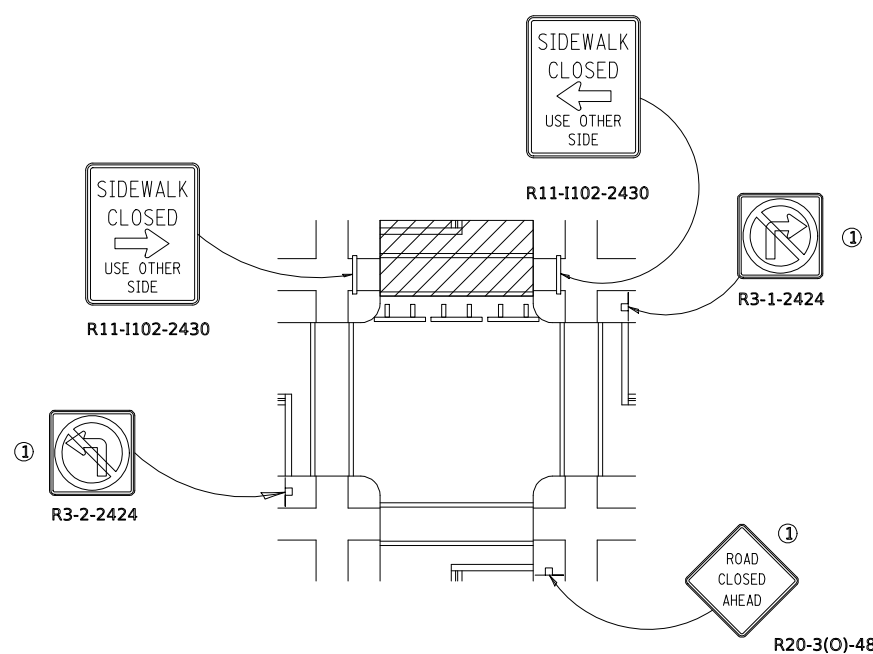
MP TO MP

SHEET --- OF 25

FILE: 1812BTLK-PE-MCA-9923-1



CORNER CLOSURE

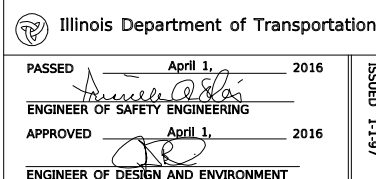


CROSSWALK CLOSURE

SIDEWALK, CORNER OR CROSSWALK CLOSURE

(Sheet 2 of 2)

STANDARD 701801-06



PROJECT:

1812BTLK-PE-MCA-9923-1

HINSDALE, IL

CLARIFICATION NO.

QUANTITY

McImetro
ACCESS TRANSMISSION SERVICES CORP.

OUTSIDE PLANT CONSTRUCTION

TITLE: 1812BTLK-PE-MCA-9923-1

DATE: 4/29/2021

DESIGNER: S.DEIRMENDJIAN

DRAWN BY: S.DEIRMENDJIAN

REVISIONS

DATE	DESCRIPTION	INITIAL
----	----	----
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####	####	####
####	####	####

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CRAN HUB:
VZB DOWNERS GROVE

PERMIT ID: 9923

SCALE

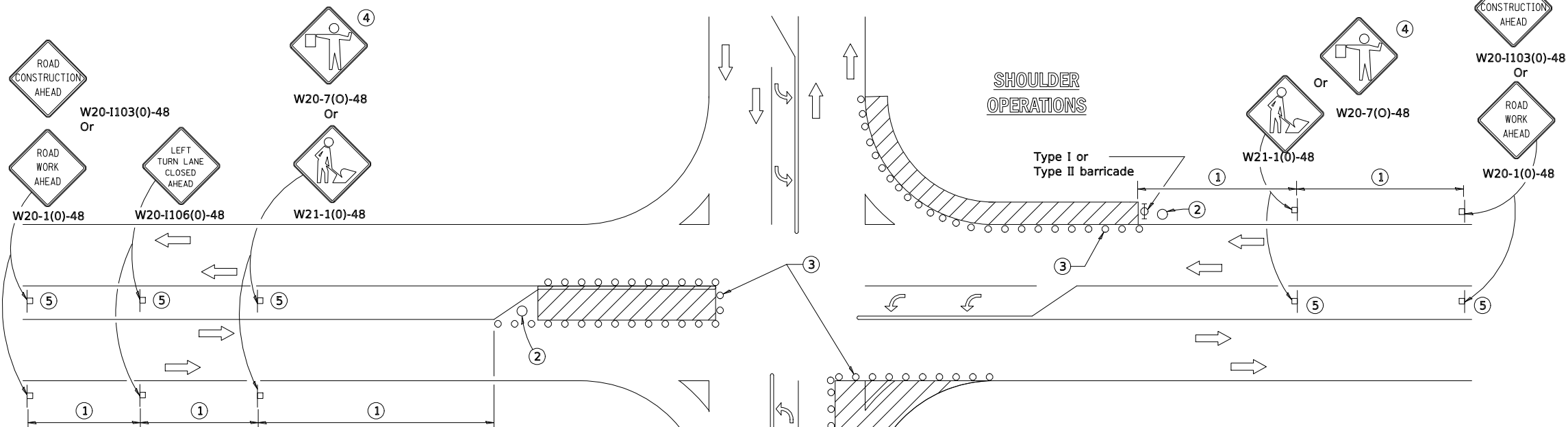
HORIZONTAL: NTS

VERTICAL: NTS

MP _____ TO MP _____

SHEET _____ OF 25

FILE: 1812BTLK-PE-MCA-9923-1

LEFT TURN LANE OR CENTER
MEDIAN OPERATIONS

- 1 Refer to SIGN SPACING TABLE for distance.
- 2 Required for speed > 40 mph.
- 3 Cones at 25' (8 m) centers for 250' (75 m). Additional cones may be placed at 50' (15 m) centers. When drums or Type I or Type II barricades are used, the interval between devices may be doubled.
- 4 Use flagger sign only when flagger is present.
- 5 Omit this sign when median is less than 10' (3 m) or for bi-directional turn lanes.
- 6 Cones, drums or barricades at 20' (6 m) centers in taper.
- 7 Advanced arrow board required for speeds > 45 mph.
- 8 Three Type II barricades, drums or vertical barricades at 50' (15 m) centers.

SYMBOLS

- Work area
- Cone, drum or barricade
- Sign on portable or permanent support
- Arrow board
- Barricade or drum with flashing light
- Flagger with traffic control sign

SHOULDER
OPERATIONSType I or
Type II barricadeCORNER ISLAND
OPERATIONS

GENERAL NOTES

This Standard is used where at any time, day or night, any vehicle, equipment, workers or their activities encroach on the pavement during shoulder operations or where construction requires lane closures in an urban area.

Calculate L as follows:

SPEED LIMIT

FORMULAS

English (Metric)

40 mph (70 km/h)
or less:

$$L = \frac{WS^2}{60}$$

$$L = \frac{WS^2}{150}$$

45 mph (80 km/h)
or greater:

$$L = (W)(S)$$

$$L = 0.65(W)(S)$$

W = Width of offset
in feet (meters).S = Normal posted speed
mph (km/h).All dimensions are in inches (millimeters)
unless otherwise shown.

DATE	REVISIONS
4-1-16	Corrected sign number for LEFT TURN LANE CLOSED AHEAD.
1-1-14	Added devices at arrow board upstream from taper. Rev. workers sign number.

URBAN LANE CLOSURE,
MULTILANE INTERSECTION

STANDARD 701701-10

Illinois Department of Transportation

PASSED April 1, 2016

ENGINEER OF SAFETY ENGINEERING

APPROVED April 1, 2016

ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97



PROJECT:

1812BTLK-PE-MCA-9923-1

HINSDALE, IL

[illegible]

MCImetro
ACCESS TRANSMISSION SERVICES CORP.

OUTSIDE PLANT CONSTRUCTION

TITLE: 1812BTLK-PE-MCA-9923-1

DATE: 4/29/2021

DESIGNER: S.DEIRMENDJIAN

DRAWN BY: S.DEIRMENDJIAN

REVISIONS

DATE	DESCRIPTION	INITIAL
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CRAN HUB:
VZB DOWNERS GROVE

PERMIT ID: 9923

SCALE

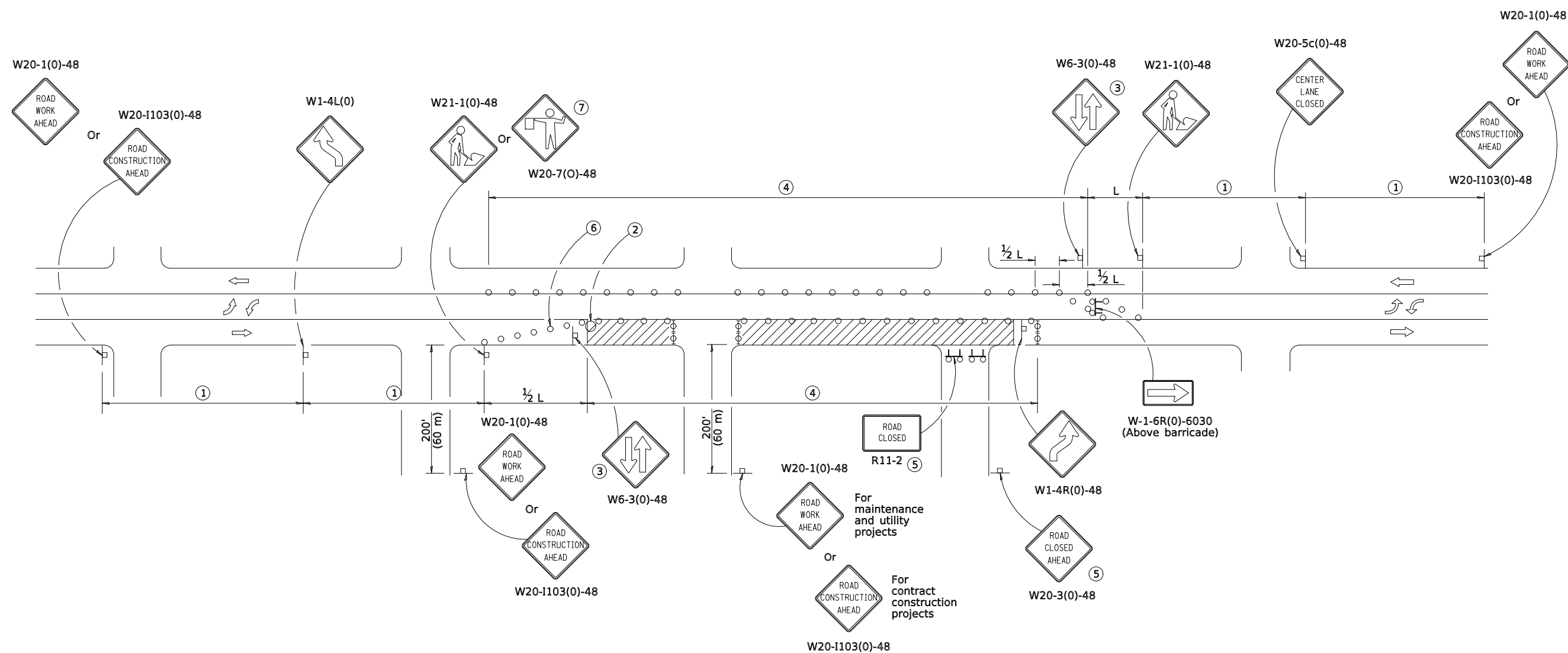
HORIZONTAL:	NTS
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VERTICAL: NTS

MP	TO MP
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SHEET --- OF 25

FILE: 1812BTLK-PE-MCA-9923-1



CASE II

URBAN LANE CLOSURE,
2L, 2W, WITH BIDIRECTIONAL
LEFT TURN LANE

(Sheet 2 of 2)

STANDARD 701502-09



APPROVED January 1, 2019

ENGINEER OF SAFETY PROG. AND ENGINEERING

APPROVED _____ / January 1, _____ 2019

ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-01



