

**MEMORANDUM OF UNDERSTANDING  
BETWEEN CITY OF SHEBOYGAN AND TDS METROCOM, LLC**

Purpose

This Memorandum of Understanding (“MOU”) sets forth the understanding between the parties with regard to the installation and operation of a fiber optic network for residential and commercial broadband service (“Network”) on property owned or controlled by the City. This MOU is intended to facilitate the timely, safe, and effective installation of Network infrastructure such as conduit, fiber optics, handholds, cabinets, and related infrastructure depicted in Exhibit A (“Network Facilities”); to acknowledge and establish mutual expectations in regard to the project, and such other good and valuable consideration. This MOU is not intended to replace any permits or processes applicable to the project.

Parties

The parties to this MOU are the City of Sheboygan, Wisconsin, a municipal corporation with offices located at 828 Center Avenue, Sheboygan, Wisconsin 53081 (“City”), and TDS Metrocom, LLC, a Wisconsin limited liability company with offices located at 525 Junction Road, Madison, Wisconsin 53717 (“TDS”) and its agents. Each party hereby agrees that those signing this MOU on its behalf are authorized to make said signature.

Scope & Timing

The Network is planned for the geographic area of the City with Network Facilities installed throughout the City at TDS’s sole expense. TDS intends to commence Network construction in 2022 and once commenced, shall use best efforts to proceed with construction to completion throughout the City, excepting only any locations where costs of construction are exceptionally high and not economically viable for the Network, on a timely and equal basis irrespective of the socioeconomics, racial or ethnic composition of any neighborhood or portion of the City. It is understood that while TDS intends to begin construction in 2022, TDS is not committing to customer services being available until some point in 2023. Network installation is anticipated to be completed in December, 2025.

Construction

The City, through the Public Works Department, shall monitor the construction of the Network pursuant to City ordinances, policies, and the duty to maintain the rights-of-way for public use and benefit. The parties further agree as follows:

1. Underground Construction. TDS shall locate Network Facilities underground to the greatest extent practicable. Boring technology and procedures are preferred for the installation of fiber facilities. In areas with prohibitively high construction costs and/or where the deployment of conduit is not feasible, TDS’s network facilities may be installed via micro-trenching technology and procedures, or open-trenching technology and procedures. This decision shall be subject to approval by the Director of Public Works or his designee, which shall be granted on a case-by-case basis, and which shall not be arbitrarily, discriminatorily, or unreasonably withheld, conditioned, or delayed.

- a. TDS acknowledges that Sheboygan Municipal Code (“SMC”) § 122-3 requires underground installation of wires, cables, fiber optic cables and lines. Aerial Network Facilities will be limited to locations with existing aerial utilities or as otherwise provided herein.
- b. The parties acknowledge TDS’s intent to follow existing platted private utility easements for the residential installation of Network Facilities.
- c. TDS shall utilize flush mount handholds whenever practicable in areas of underground construction and whenever reasonably requested by the City in rights-of-way. Pedestals, cabinets, and other above-ground infrastructure shall only be utilized in areas where other utilities are above grade as when necessary and upon mutual agreement of the Parties, as assessed on a case-by-case basis.
- d. TDS shall adhere to all applicable provisions of the Sheboygan Municipal Code, as well as state building codes and City Engineer specifications when repairing utilities or property, both public and private, damaged as a result of TDS or its contractors, and shall immediately communicate with the Director of Public Works and/or Sheboygan Water Utility if any damage may disrupt the lawful use of property by others.

2. Utility Poles. Where above-ground location of facilities is necessary, TDS shall make every effort to co-locate on existing utility poles. Where co-location is not feasible, TDS may apply for approval to place utility poles subject to written permission from the Director of Public Works or his designee, pursuant to SMC § 122-3, and with the following conditions:

- a. TDS shall not install a utility pole in any area of the City where all other utilities are located underground or where underground facilities installation is otherwise practicable.
- b. Upon City request, TDS will make reasonable accommodations to improve the aesthetics of any new utility pole.
- c. The location of any new utility pole shall not adversely affect the health, safety, or welfare of any person or negatively affect the use of the right-of-way for transportation purposes.
- d. TDS will make any new utility pole available to other communications providers on just and reasonable terms and subject to loading requirements and space availability.
- e. TDS shall have an ongoing obligation to seek co-location opportunities and shall remove, at its sole expense, any and all TDS-installed utility poles from the rights-of-way if it is later able to co-locate its Network Facilities on a new or existing utility pole that can accommodate TDS’s fiber-facilities and if TDS is able to gain access to it under reasonable terms and conditions and within a reasonable period of time.

3. Utility Location Procedure. TDS shall utilize and follow the City’s procedure for the initiation of utility locates. Applications shall be submitted in geographically compact groupings with sufficient lead time to allow the City to conduct the locates efficiently and timely to TDS’s preferred construction schedule. The Parties shall meet prior to the

commencement of the installation of the Network Facilities and periodically thereafter as mutually agreeable to discuss and agree upon a work schedule, staging, and desired completion times.

a. Applications shall be submitted to the Department of Public Works at least 15 business days prior to permit issuance. Forms may be found at <https://sheboygandpw.com/perch/resources/excavate-row.pdf>. Address and geographical area information shall be provided by TDS. The Parties shall coordinate packaging or grouping applications to allow for efficiency of time and costs and avoid exceeding City operational capacity. TDS will pay the City \$100 per permit application. Additional costs of inspection and follow-up for work not meeting the standards set forth by the City of Sheboygan Department of Public Works shall be borne by TDS and/or their sub-contractor(s) and may result in future permit applications being held or denied.

b. To locate other utilities under paved or concrete surfaces, TDS may need to insert holes in a driveway, walkway, or street. TDS may utilize an 8" minimum core drill to remove the pavement and then remove debris utilizing a vacuum excavator to visually expose the path to cross the street. After the crossing is completed, each pothole will be backfilled with a flowable, stabilized sand/cement slurry mix to completely fill the excavation hole to the depth of the existing pavement. Where possible the core plug removed to access the pothole will then be cleaned and coated with epoxy resin around the outside surface of the plug and replaced in the excavation hole so that it is even with the top of the existing surface of the driveway, walkway, or street. TDS work is subject to review, approval, repair, and modification of technique if not to City street opening and repair standards upon review by the Director of Public Works or his designee.

c. Any damage caused by TDS or its subcontractor(s) to a properly marked utility, or for work done without a prior locate being completed, shall be repaired, replaced, and restored by or at TDS's sole financial responsibility.

4. Construction Within the Right-of-Way. TDS shall utilize and follow the City's utility permitting procedure and requirements for the initiation of any street opening, excavation, or other work by TDS or its subcontractor(s) within any of the City's rights-of-way. Applications shall be submitted through the City Public Works Department and in a manner otherwise consistent with locate requests to further efficiency and coordination of work schedules and expectations.

a. Traffic control plans shall be submitted related to any collector or arterial street, when street closures are anticipated or flagging operations are being used, or at the Director of Public Works or his designee's request. The time and cost of permit review, which shall be TDS's responsibility, will depend on the scope and area of submittal. Submittals may be by assessment district or smaller.

b. TDS shall locate Network Facilities below grade within the right-of-way unless permitted to do otherwise in writing by the Director of Public Works or his designee.

c. Permits for the location of Network Facilities within City rights-of-way shall be non-exclusive.

d. TDS shall relocate any Network Facility at its sole expense should the City request it as reasonably necessary for any City project, right-of-way repair, or reconstruction.

e. Permits shall include the obligation of TDS to timely repair the right-of-way following the street opening to City standards subject to the review and acceptance by the Director of Public Works or his designee.

5. Restoration. TDS shall restore any damage to rights-of-way caused by excavation; utility pole installation (where permitted); or otherwise caused by TDS, Network operations, or the installation, repair, or maintenance of Network Facilities pursuant to the necessary City permit and subject to review and acceptancy by the City through the Director of Public Works or his designee. TDS shall use commercially reasonable efforts to restore boulevards (also referred to as terraces or parkways) within the rights-of-way and any private property so damaged within fourteen days of boring and setting of handholes and/or pedestals, subject to factors beyond its reasonable control and with consideration given to the amount of restoration needed. When reasonably possible, hard surface restoration shall be completed within thirty days. Extensions may be granted on a case-by-case basis. TDS shall use reasonable efforts to provide owners notice of upcoming construction activity in abutting rights-of-way or utility easements. Following such notice, TDS will not be required to repair, replace, or restore any personal property of a property owner that was improperly located in a right-of-way or utility easement.

6. Work Hours. TDS shall honor the following work hours limitations. Expanded hours may be authorized on a limited basis upon request made to the Director of Public Works or his designee.

a. Non-Boring Construction Hours. All non-boring construction-related activities including, but not limited to, aerial construction, pulling cable, splicing, and clean-up work may be performed between 7:00 a.m. and 7:00 p.m., Sunday through Saturday.

b. Boring Construction Hours. All boring must usually be performed between 7:00 a.m. and 7:00 p.m., Monday through Friday. Boring may be allowed on a limited basis on Saturdays with written City approval. No work shall occur on the following holidays observed by the City:

- |                     |                          |
|---------------------|--------------------------|
| - New Year's Day    | - Memorial Day           |
| - Independence Day  | - Labor Day              |
| - Thanksgiving Day  | - Day after Thanksgiving |
| - Christmas Eve Day | - Christmas Day          |

#### Permits

TDS will pay the City \$100.00 per permit application for the costs to handle permit review, utility locates, inspections or televising directly caused by the installation of Network Facilities. Parties shall discuss and monitor capacity to ensure the City can meet the projected three (3) day turn-around on completion of locates from the time of application. The Parties further agree as follows:



1. Drawings. The sample drawings attached as Exhibit B set forth in sufficient detail the type of information TDS will generally be required to submit to the City to obtain a construction permit. TDS shall be responsible for complying with local and state regulations applicable to permit standards and shall use best efforts to submit permit applications that are complete, forthright, and accurate. The City will work in good faith to assist TDS when more information is required.
2. Applications & Approvals. The Parties shall use best efforts to facilitate accurate and prompt review of all necessary permits through timely, accurate submittal, and payments of permits and timely review and response once completed applications are submitted by TDS. The City will use best efforts to respond to complete, accurate, and paid permit applications within thirty days.
3. Network Cabinets, Pedestals, and Other Above-Ground Network Facilities. TDS shall make best efforts to locate and install Network Facilities underground. However, certain Network Facilities, including cabinets or huts (used to house equipment necessary to operate the network) are above-grade facilities. TDS shall place such above-grade facilities at a mutually agreed upon location, which may be in private easements, public utility easements, acquired property, or, if other options are not feasible and where location would not cause a public safety or maintenance concern for the City, only then in the public rights-of-way.
4. Permit Scope. An individual construction permit application may cover a large geographic area of the City consisting of up to 1,000 residential homes and/or businesses. Street opening permits may cover multiple street openings to the extent the openings are substantially similar in time, type, and scope, as reviewed and approved by the Director of Public Works or his designee pursuant to City Ordinance. TDS understands that the City may not extend permission over property not under City ownership or control.
5. Post-Construction Record Drawings. Upon completion of work in a permitted area, TDS will provide record drawings via AGOL as-builts.

#### Miscellaneous Provisions

1. Solicitation. TDS intends to open an office and/or warehouse within the City with local staff to support the installation, marketing, and operations of the Network. TDS may desire to conduct direct sales solicitation governed by Sheboygan Municipal Code §§ 78-26 through 78-62. TDS understands that City ordinance requires a local physical presence or registration as a transient merchant prior to any such direct sales solicitation. City agrees to consider an office and/or warehouse such a presence for up to 180 days provided a building permit or lease for a permanent office is provided to the City and to waive any prior time requirement for such a physical location in considering a direct seller permit. TDS shall obtain all necessary permits and pay required fees to the City prior to direct sales solicitation.
2. Engineering Review and Certification. If TDS desires to expedite the application and review process, the Parties agree that TDS may retain Wisconsin-licensed civil engineers or inspectors, at TDS's sole election and expense, to complete required applications, review work, and certify its accuracy or completion to state law and City Code standards. The City shall retain all final reviews and approvals.

3. Entire Agreement. This Agreement constitutes the entire agreement between the Parties as to the Project and any amendment shall be in writing and signed by both Parties.

4. Governing Law and Venue. This Agreement shall be governed by the laws of the State of Wisconsin. Venue of any disputes arising under this Agreement shall be in the Sheboygan County Circuit Court, Wisconsin.

5. Third Party Rights. Nothing in this Agreement shall be construed to give any rights or benefits to anyone other than the City and TDS. Nothing in this Agreement shall create any contractual relationship between any subcontractor and the City. TDS agrees to bind every approved subcontractor (and every subcontractor of a subcontractor) by the terms of this Agreement as far as applicable to that subcontractor's work, unless specifically noted to the contrary in a subcontract approved in writing as adequate by the City. The City's Representative shall have the authority to consent to a subcontract as being adequate.

6. Safety Requirements. TDS and any retained subcontractor shall be responsible for the safety of their employees at all times and shall provide all equipment necessary to insure their safety. TDS and any retained subcontractor shall ensure the enforcement of all applicable safety rules, regulations, ordinances, and laws, whether federal, state, or local.

TDS and any retained subcontractor shall provide the necessary safeguards including, but not limited to, warning signs and barricades, to avoid all necessary hazards and protect the public, the work, and the property at all times, including on days when no work is being done. The City shall not be responsible for any loss or damage to the project materials prior to their installation or to TDS's or the subcontractor(s)'s tools and equipment from any cause whatsoever.

7. Drafting/ Interpretation. This Agreement was mutually drafted and its interpretation shall not be construed against either party in whole or in part. The Parties are experienced market participants, represented by legal counsel, and enter into this agreement fully informed and advised of their legal rights and the effects of the terms and conditions of the Agreement stated herein and executed below.

8. Communication Plan. TDS shall develop a communication plan and submit same to the City to be shared with residents having questions or concerns about the project or services related thereto. City shall direct all residents with questions or concerns about the project to TDS' customer service Triage Team at 1-855-259-8576.

9. Notices. Parties shall maintain a primary contact for ease and efficiency of communication. TDS and any installer(s) utilized by TDS shall each have a primary contact available to the City and public by phone and website. Parties shall notify the other if the primary contact is changed. Any Notices required or permitted to be provided under this agreement shall be served upon the parties in writing and mailed, emailed, or by personally delivered as follows:

City of Sheboygan

Attn: David Biebel, Director of Public Works  
2026 New Jersey Ave.  
Sheboygan, WI 53081  
(920)  
David.Biebel@sheboyganwi.gov

TDS Metrocom, LLC

(Installer/ Subcontractor)

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed the day and year first written above.

CITY OF SHEBOYGAN, WISCONSIN

TDS METROCOM, LLC.

BY: \_\_\_\_\_  
Ryan Sorenson, Mayor

BY: \_\_\_\_\_

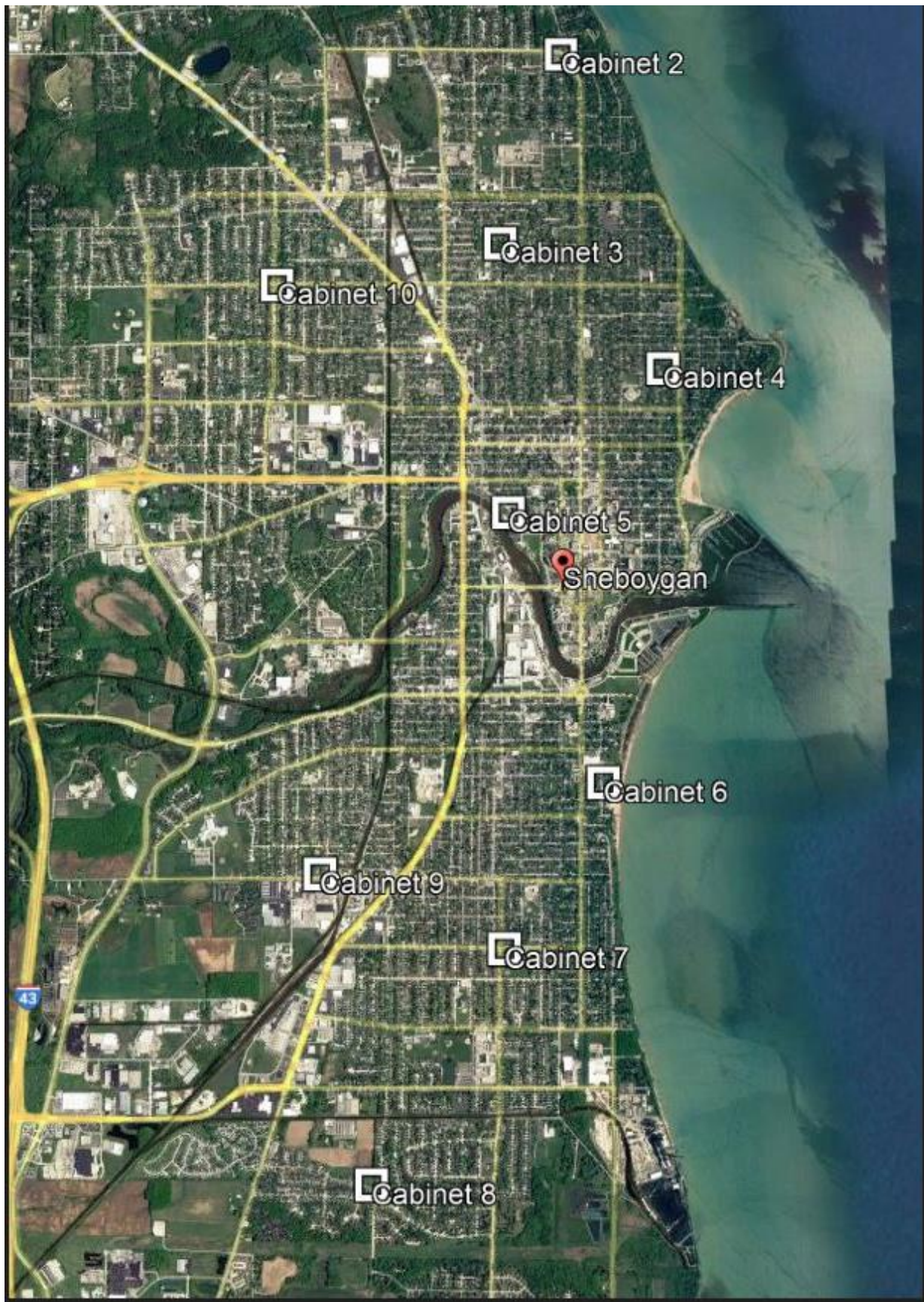
ATTEST: \_\_\_\_\_  
Meredith DeBruin, City Clerk

ATTEST: \_\_\_\_\_

DATE: \_\_\_\_\_

DATE: \_\_\_\_\_

EXHIBIT A





Cabinet 1 Location





Cabinet 2 Location



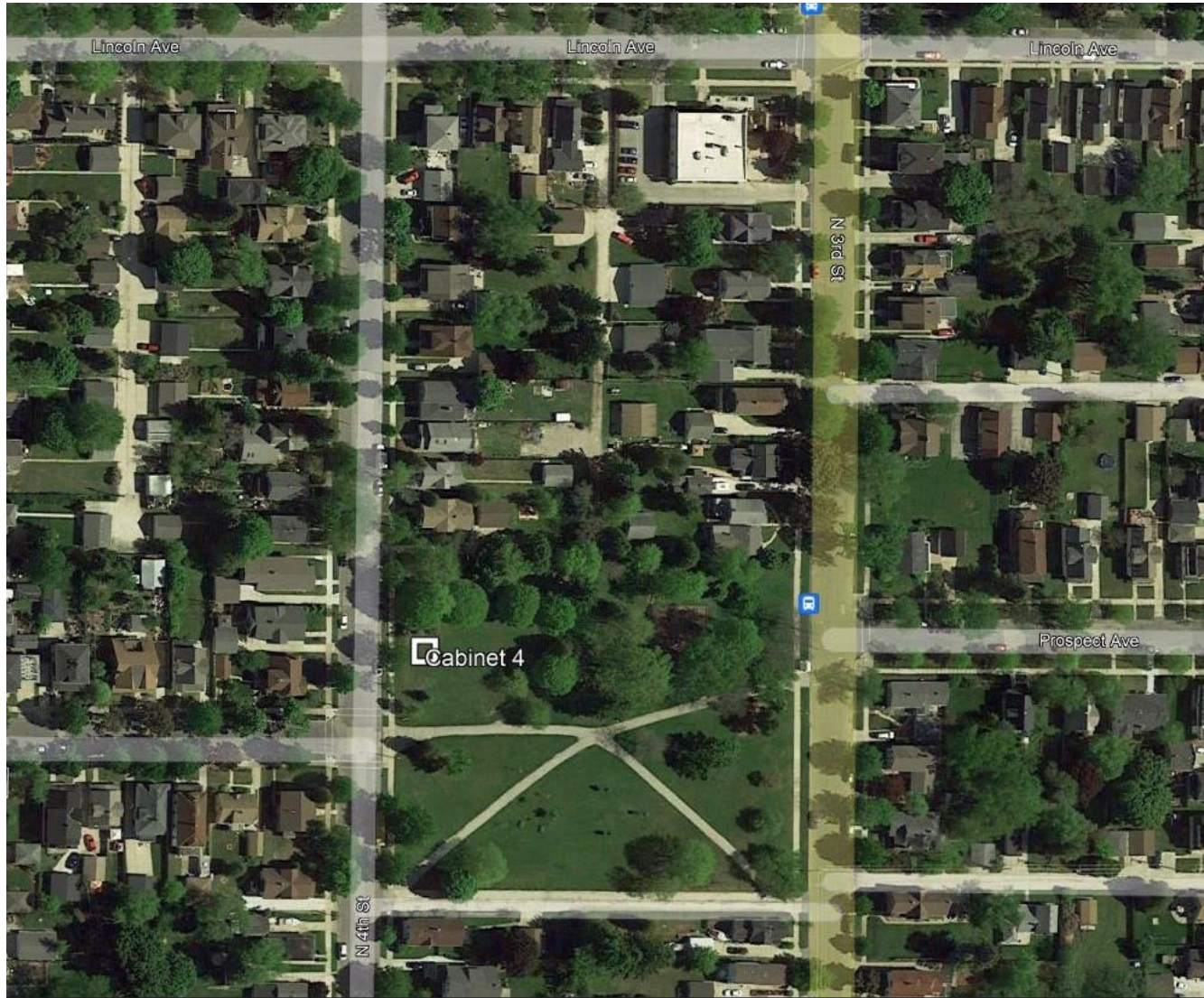


Cabinet 3 Location





Cabinet 4 Location



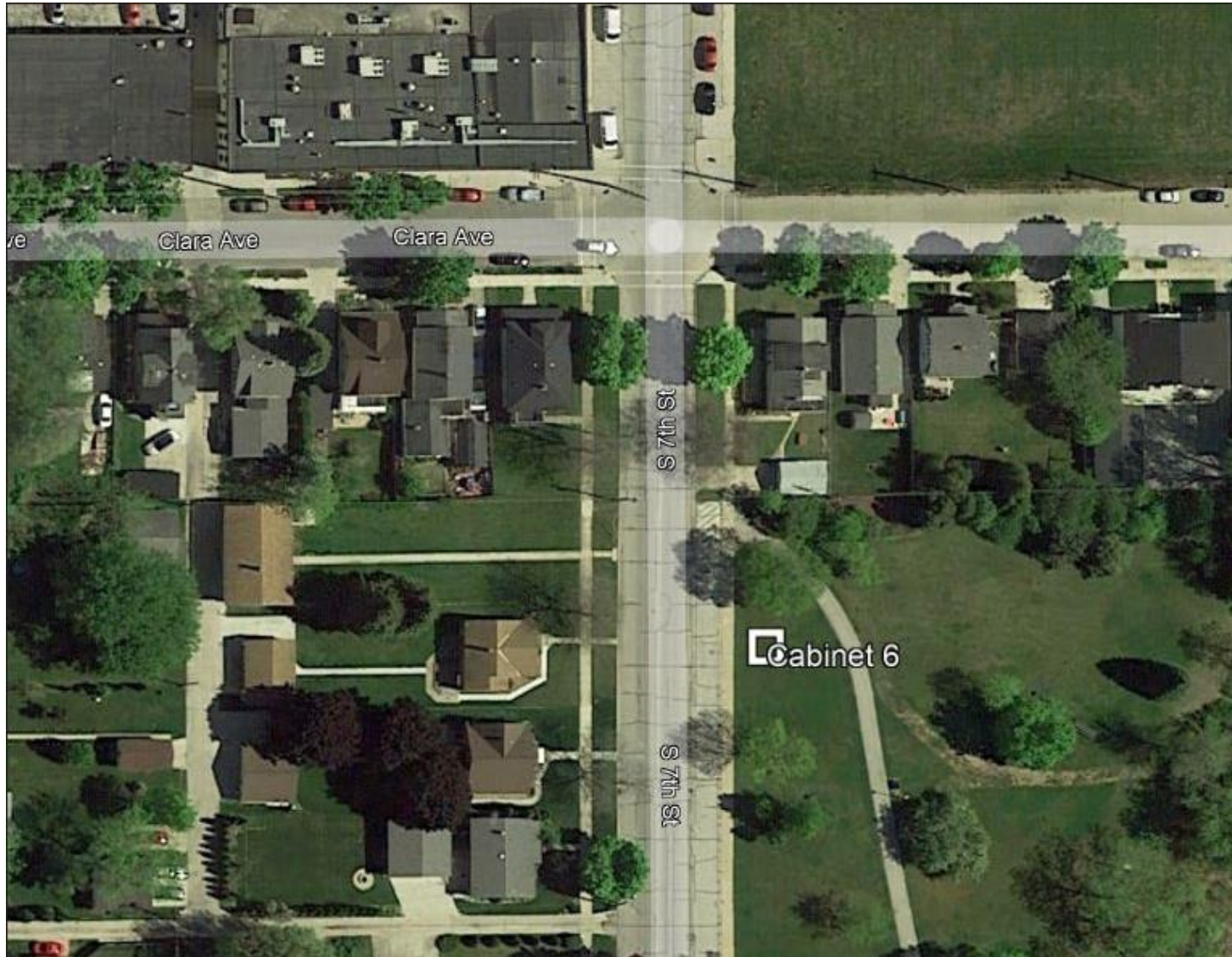


Cabinet 5 Location

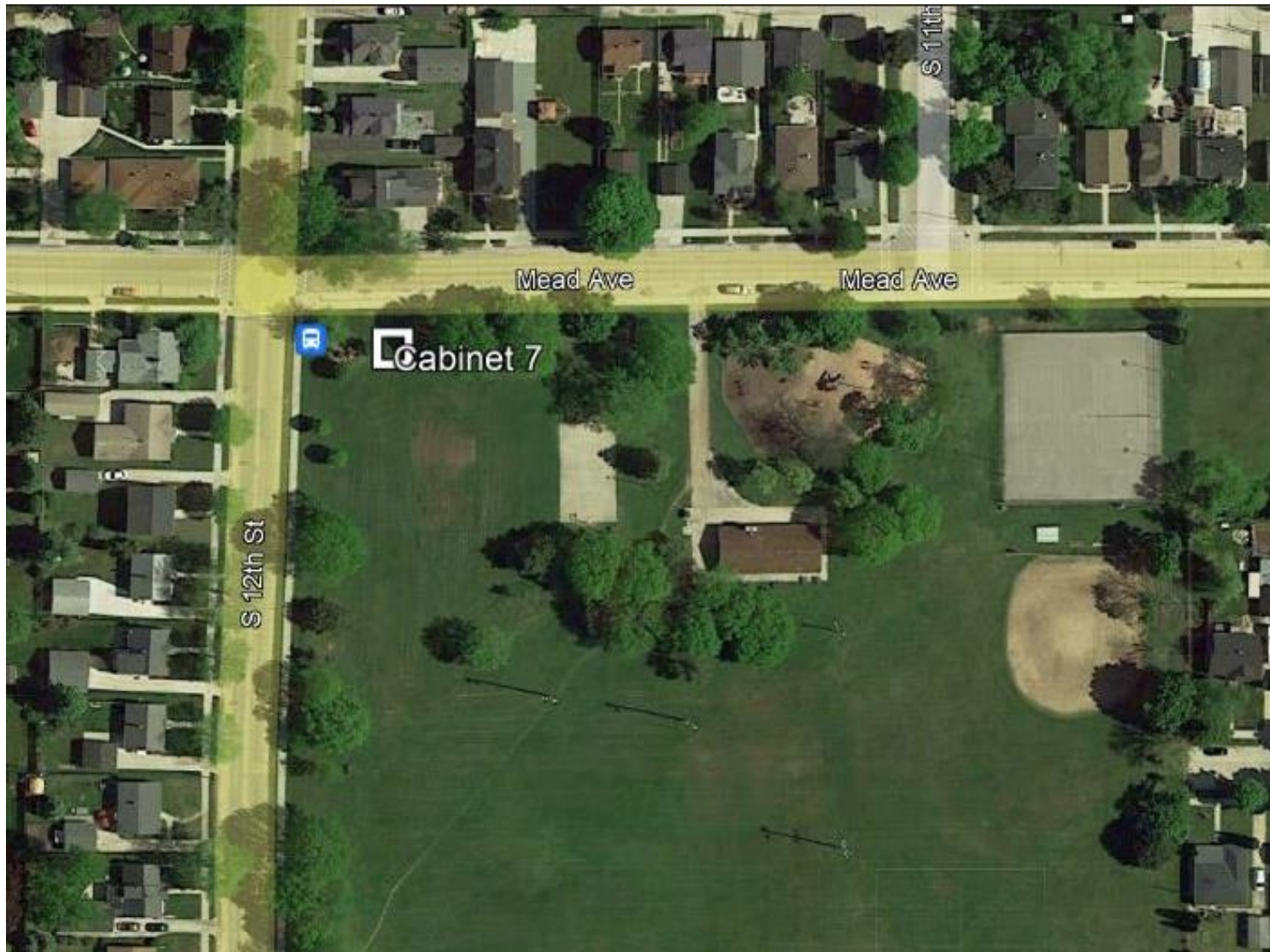




Cabinet 6 Location

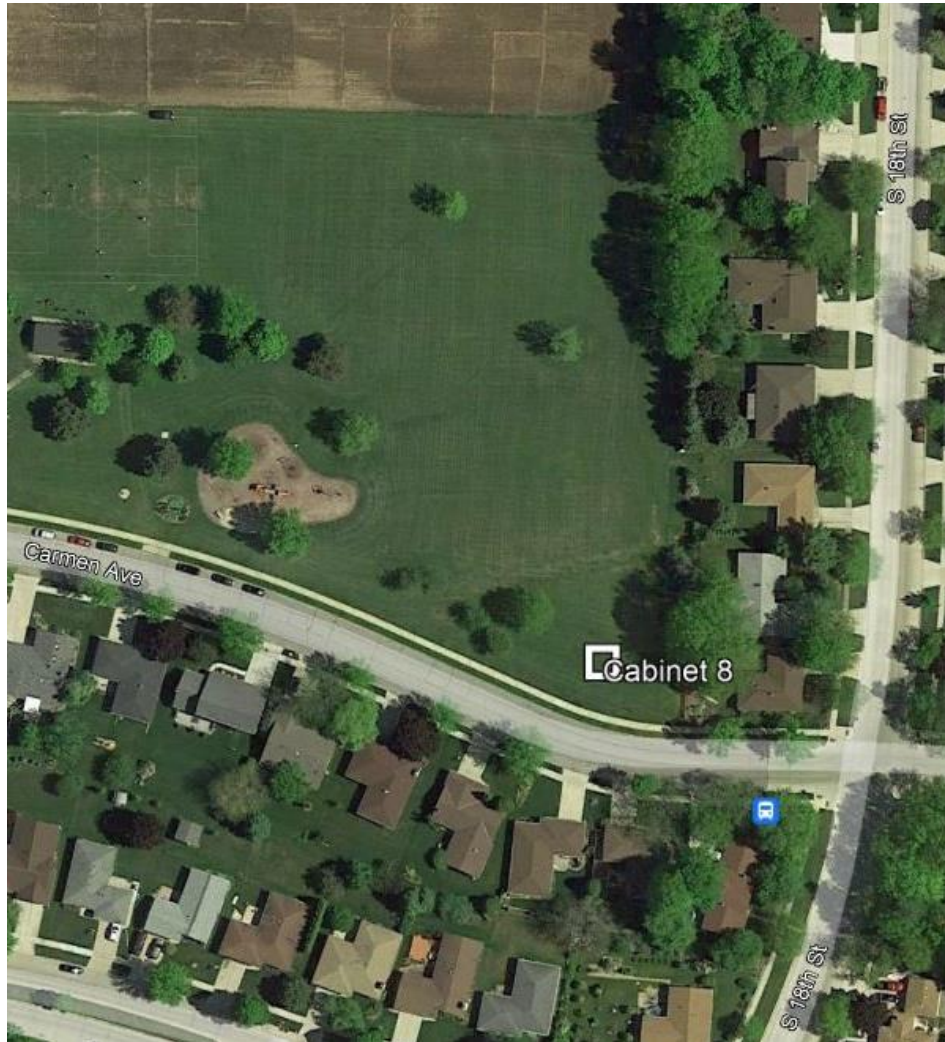


Cabinet 7 Location





Cabinet 8 Location



Cabinet 9 Location





Cabinet 10 Location



Cabinet Style

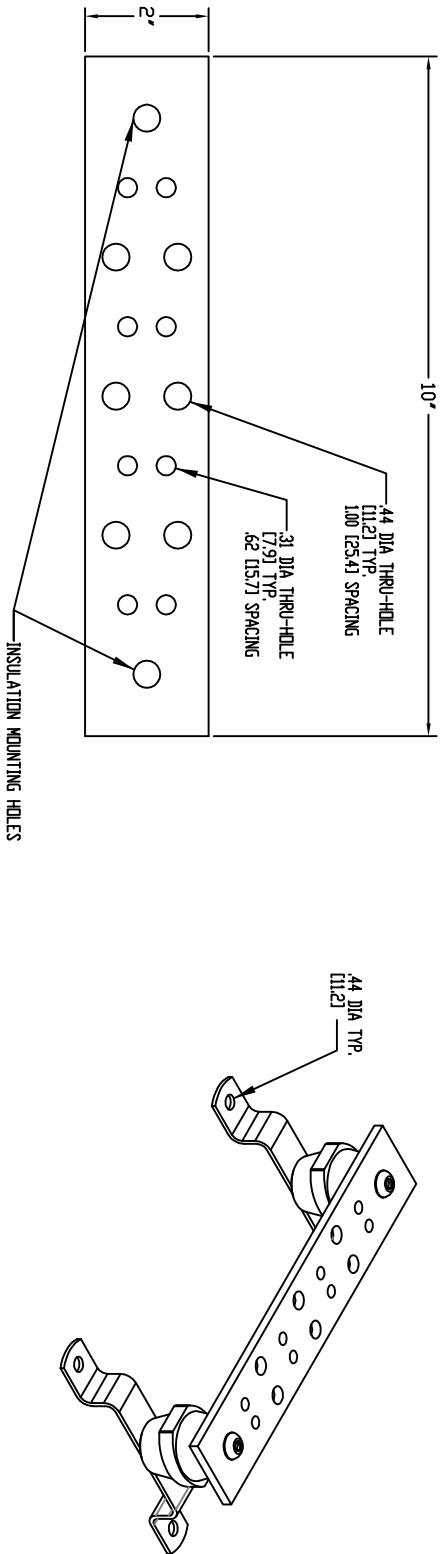




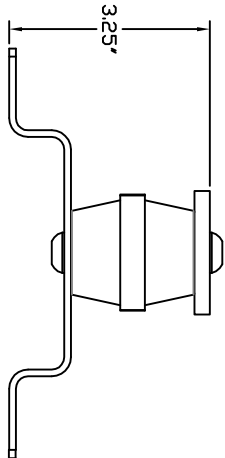




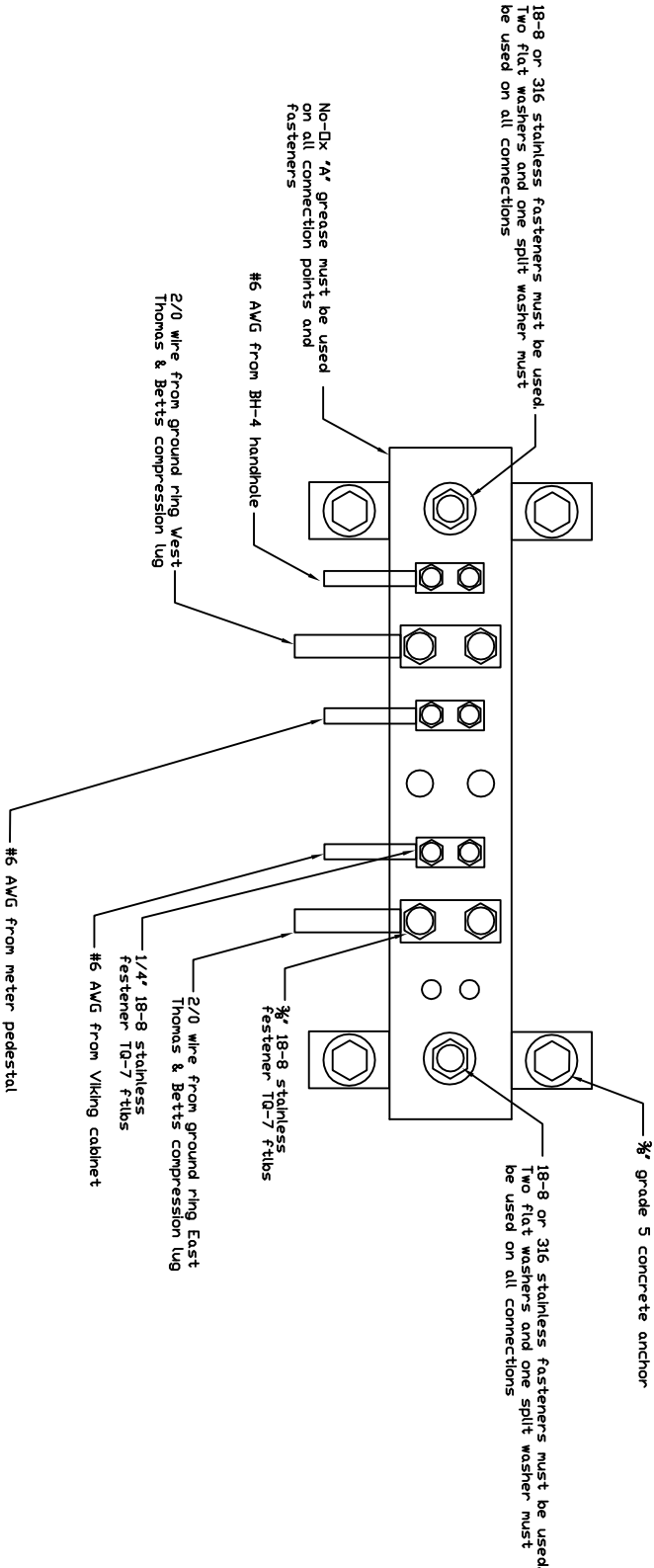
Panduit Grounding Buss Bar Drawing – Part Number GB2B0304TPI-1



1. The kit comes fully assembled.
2. The kit includes the buss bar, mounting brackets, insulators and mounting hardware.
3. The kit meets BCSI/J-STD-607-A specifications.
4. Global Trade ID Number 00074983659265.



Grounding Bar Assignments – These may be reversed if necessary



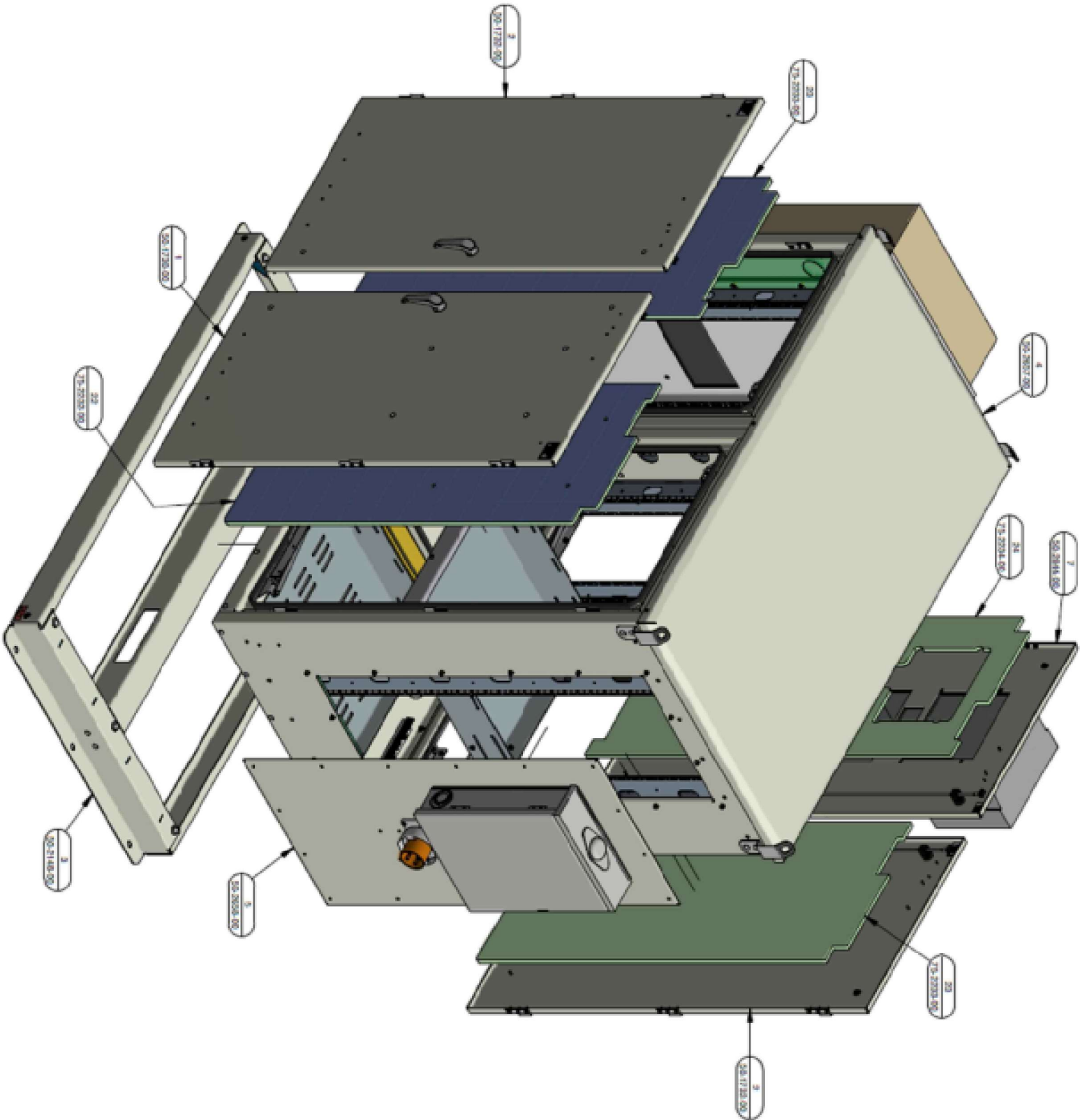
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NODE CABINET DETAIL

Parts List		
ITEM	QTY	DESCRIPTION
1	1	FRONT CH ASSY PWR MCO
2	2	WDO DOOR ASSY 30 X 34
3	1	WDO 4 MP SP
4	1	WDO 2MP SP
5	1	WDO 4MP TDS
6	1	WDO 2MP TDS
7	1	WDO 2MP TDS
8	1	WDO 2MP TDS
9	1	WDO 2MP TDS
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ROUTE ##-9000

SHEET 5 OF #

EX. ROUTE

MAP REF. ##

COUNTY:

TOWNSHIP:

TOWN

RANGE

SECTION

MUNICIPALITY:

ROAD NAME:

TAX DISTRICT:

STAKED BY:

DATE:

AS BUILT:

DATE:

WBS:

FILENAME:

DATE

START

COMPLETE

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SPLICING

CUTOVER

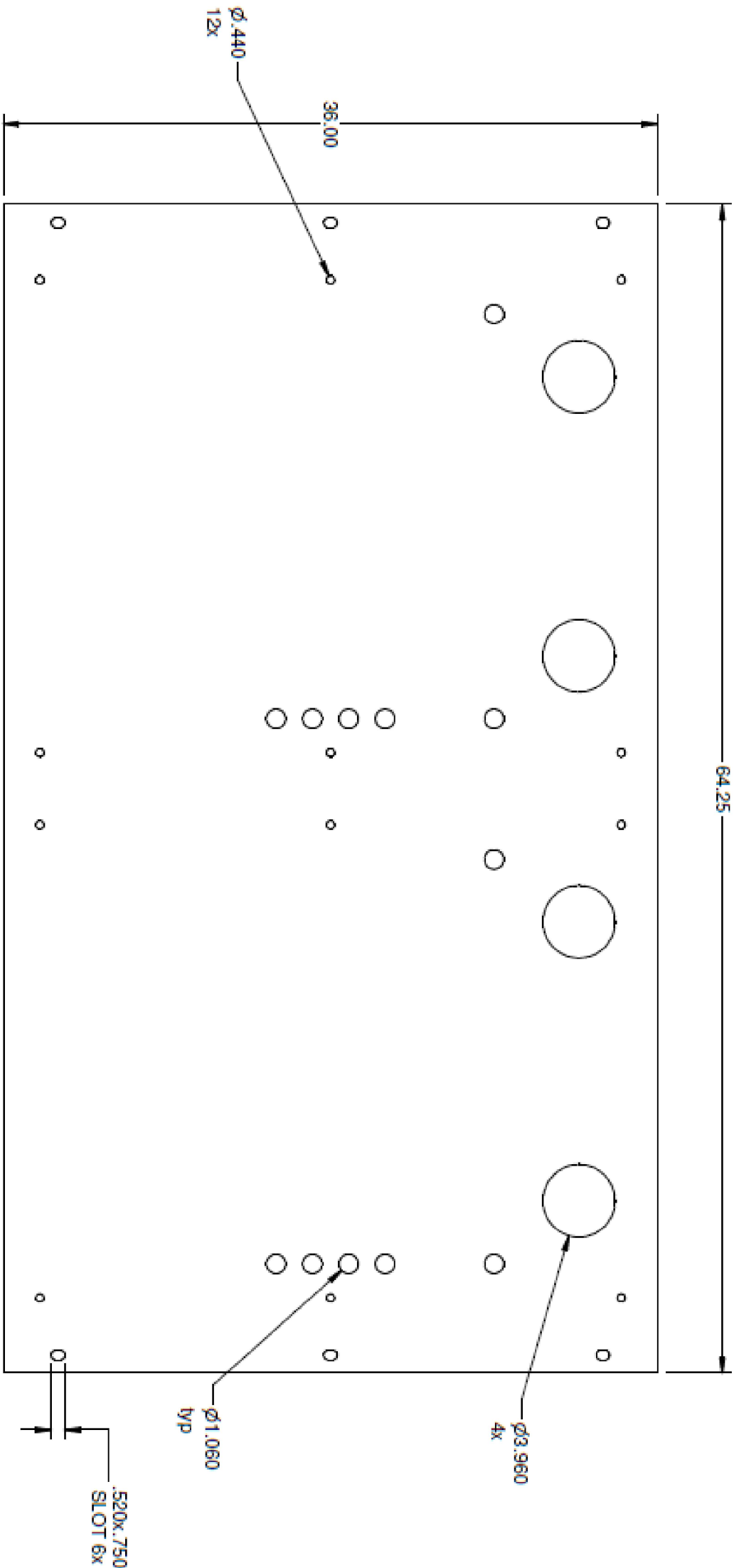
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FLAT PATTERN



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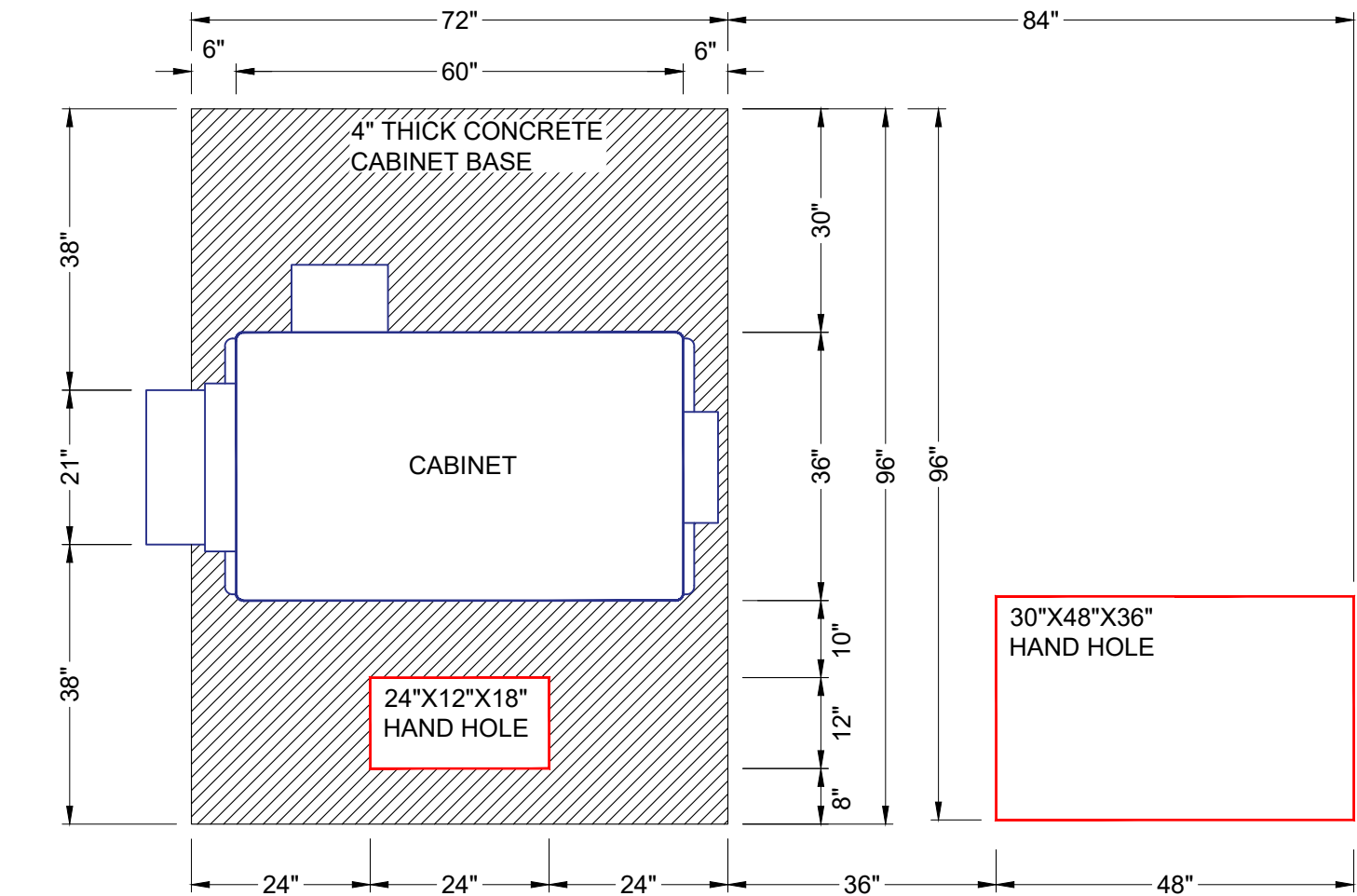
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TDS

Dual Bay Cabinet Mounting Template – Deburr and remove all sharp edges.

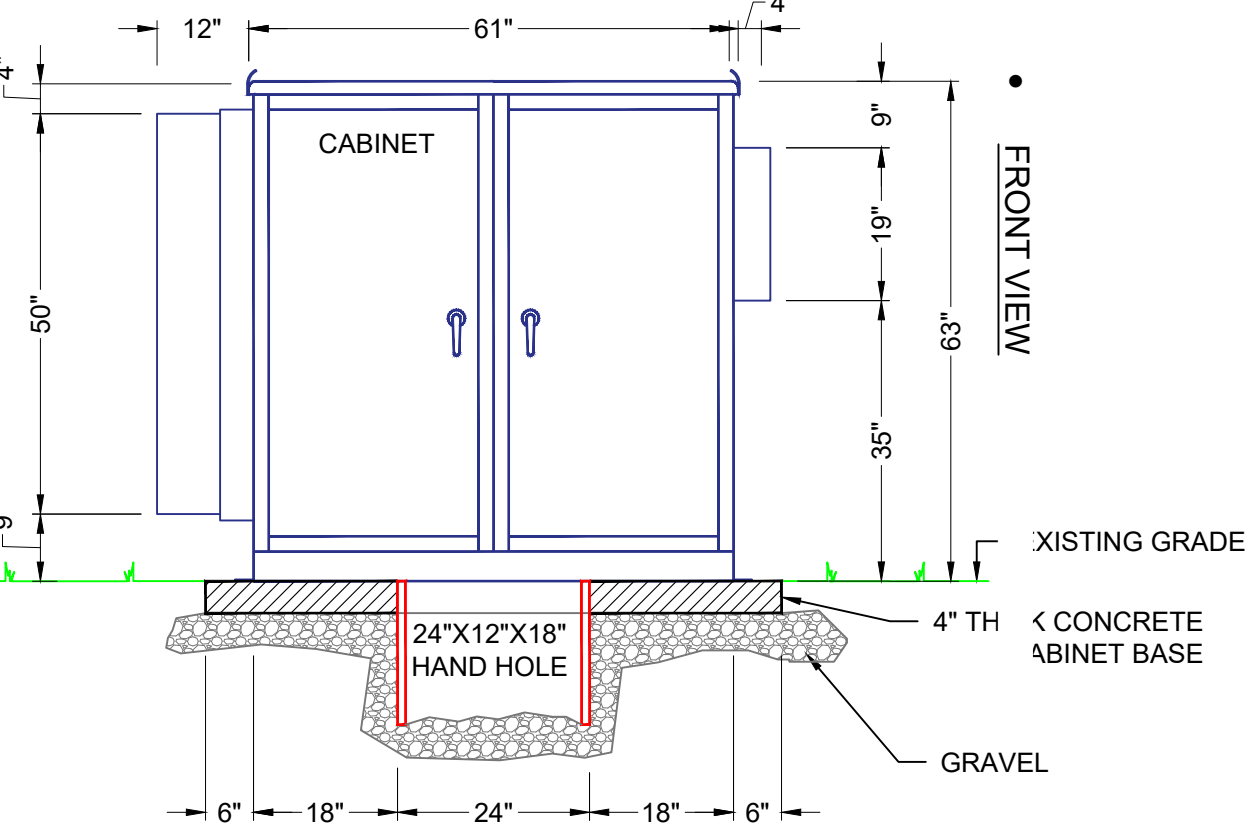
NODE CABINET DETAIL (AM58P-6036-60RU-VIK)

PLAN VIEW

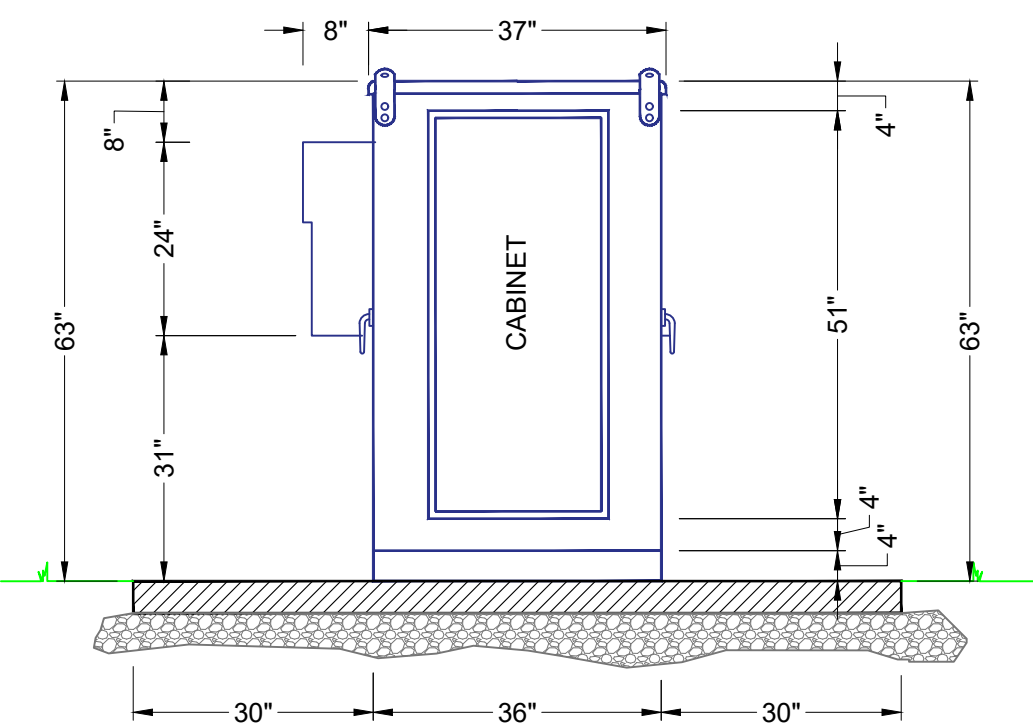


Constructed out of .125 Aluminum, powder coat Beige in color, front & rear access door with 3pt S/S pad-lockable door latches,

FRONT VIEW



SIDE VIEW



SHEET TITLE:

CABINET VIEW

PERMIT ID:

FOX\_ME087707\_NE\_CABINET

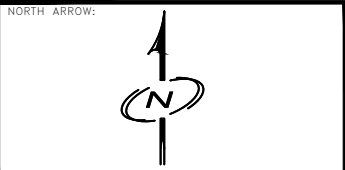
REV	DATE	DESCRIPTION
1	-	-
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4	-	-

PLANS PREPARED BY:



THE INFORMATION CONTAINED IN THIS SET OF CONSTRUCTION DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO CARRIER SERVICES IS STRICTLY PROHIBITED.

DRAWN BY:	DATE:
E.T.	05/28/21
CHECKED BY:	DATE:
---	PENDING
SUBMITTAL NUMBER:	DATE:
1	PENDING



SCALE: 1" = 2'

SHEET NUMBER: 8 OF 11





# **PERMIT TO EXCAVATE IN THE PUBLIC RIGHT-OF-WAY**

Permit # : \_\_\_\_\_

Date Issued: \_\_\_\_\_

Expires: \_\_\_\_\_

Fee: \_\_\_\_\_

Deposit account: \_\_\_\_\_

**Applicant Information**☐ City Staff☒ Facility Owner☐ Property Owner☐ Contractor

Name (print): Jordan Polk

Company: TDS Metrocom, LLC

Address: 525 Junction Rd.

Telephone: 832.353.7435

Fax: \_\_\_\_\_

Madison, WI 53717

e-mail: Jordan.Polk@tdstelecom.com

Applicant Signature: Jordan Polk

Digitally signed by Jordan Polk  
Date: 2023.01.12 14:56:21 -06'00'

Date: 01-12-2023

**Location of Work**

Address: From Garden Ct. to Superior Ave between Wiennann St. and Calumet Dr.

Lot #/Subdivision: \_\_\_\_\_

Tax Key No.: \_\_\_\_\_

Street: \_\_\_\_\_

From: \_\_\_\_\_

To: \_\_\_\_\_

**Description of Work**☒ New☐ Replacement☐ Repair☐ Abandonment / Removal

General Description: Directional bore and installation of 1" &amp; 1.25" HDPE Conduit and AXS 400 &amp; 500 hand holes

Estimated start date: 02-13-2023

Estimated completion date : 03-17-2023

**Utility Construction (Type):****Utility Construction (Description):****Sidewalk / Driveways / Landscaping / Other**☐ Gas☒ Main Line

(Size: 1.25 ")

☐ Sidewalk (at Driveway only)☐ Electric☐ Service/Lateral

(Size: \_\_\_\_\_ ")

☐ Sidewalk (complete)☒ Telephone / Fiber Optic☐ Tap

(Size: \_\_\_\_\_ ")

☐ Driveway Apron (approved by: \_\_\_\_\_)☐ Cable TV☐ Valve

(Size: \_\_\_\_\_ ")

Curb Cut (approved by: \_\_\_\_\_)

☐ Utility Pole/Street Light☐ Hydrant☐ Sanitary Sewer**Installation Method****Property Type**☐ Storm Sewer☐ Open Cut☐ Overhead☐ Owner-Occupied One or Two Family Property☐ Water☒ Auger/Bore/Trenchless☒ Commercial or Other

Type(s) of existing surfaces that will be damaged:

☐ Asphalt pvt.☒ Concrete pvt.☐ Curb/Gutter☒ Sidewalk☒ Grass**Surface Restoration Requirements**

(To be determined by City prior to issuing permit)

Required under this permit:

☐ Temporary☐ Permanent☐ NoneMaterial(s): ☐ \_\_\_\_\_ " Asphalt☐ \_\_\_\_\_ " Concrete☐ Grass / Other:**Backfill Requirements:**☐ Excavated Material☐ Compacted Granular☐ Aggregate Slurry☐ Flowable Fill**Additional Requirements (Department use only)**☐ Construction Plan/Sketch☐ Sewer/Water Permit☐ Inspection☐ Re-Inspection☐ Certificate of Insurance☐ Street Occupancy Permit

Department of Public Works must be notified 4 working hours prior to requested time of inspection (920) 459-3440.

☐ Performance Bond☐ Council Approval☐ Erosion Control Permit☐ Contact Water Utility☐ Other : \_\_\_\_\_

(920) 459-3800

**Work Zone Traffic Control Requirements**☐ CONTACT CITY OF SHEBOYGAN POLICE DEPARTMENT

Type of Street:

Proposed Traffic Control:

☐ Arterial/CBD☐ City Manual Page(s)

Additional Requirements:

☐ Collector☐ State Manual Page(s)☐ Local☐ Other (attach plan)

Approved by:

Date:

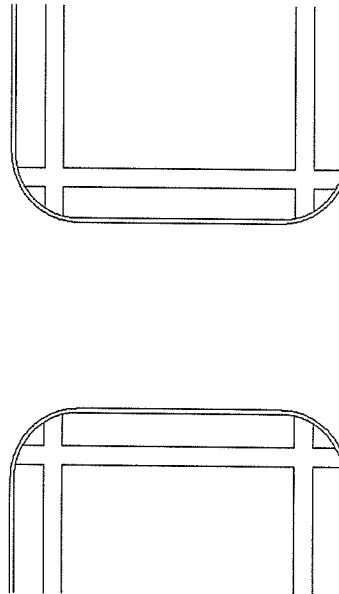
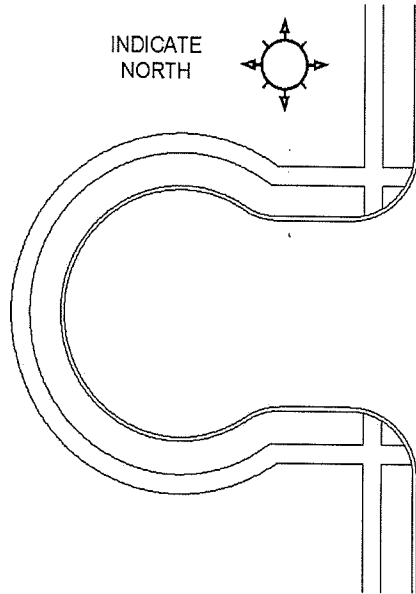
**FIELD NOTES** (Department use only)

**Surface Restoration:** ☐ **TEMPORARY** ☐ **PERMANENT**

**Backfill Material(s) Used:** ☐ Excavated Material ☐ Compacted Granular ☐ Aggregate Slurry ☐ Flowable Fill

**Surface Material(s) Used:**

**Thickness:**



**Existing Surface(s):**

- ☐ Concrete  
☐ Asphalt  
☐ Asph./Conc.  
☐ Gravel  
☐ Grass  
☐ Other: \_\_\_\_\_

**Size of Excavation(s)**

\_\_\_\_\_ ft. x \_\_\_\_\_ ft.  
 \_\_\_\_\_ ft. x \_\_\_\_\_ ft.  
 \_\_\_\_\_ ft. x \_\_\_\_\_ ft.  
 \_\_\_\_\_ ft. x \_\_\_\_\_ ft.  
 \_\_\_\_\_ ft. x \_\_\_\_\_ ft.  
 \_\_\_\_\_ ft. x \_\_\_\_\_ ft.

**Inspection:** ☐ **N/A** Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_ ☐ Pictures taken

**Measured Quantities:**

Sidewalk Removed: ( \_\_\_\_\_ ft) x ( \_\_\_\_\_ ft) = \_\_\_\_\_ Sq. Ft.

Sidewalk Constructed: ( \_\_\_\_\_ ft) x ( \_\_\_\_\_ ft) = \_\_\_\_\_ Sq. Ft.

Inspector to describe what work was performed:

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

This permit approval is subject to the following conditions:

1. Permittee is responsible to obtain any further permits that may be required for this project.
2. Permittee shall install the proposed facilities as shown on the plan(s) that were submitted to the City of Sheboygan.
3. The field representative shall have a copy of the approved permit on-site at all times.
4. Any facilities installed as part of this permit shall be installed at least 5 feet from all existing city facilities, wherever feasible.
5. This permit is subject to IMMEDIATE REVOCATION and/or issuance of a MUNICIPAL CITATION if conditions of the permit are not met.
6. This permit is subject to IMMEDIATE REVOCATION if unfavorable traffic conditions develop during the period the obstruction is permitted.

This permit is issued to the applicant upon payment of the permit fee and is expressly limited to the location and type described herein. The applicant, in exchange for receiving this permit, warrants that all street excavations shall be performed in conformity to City ordinance, standards and specifications, be properly barricaded and lighted, and be performed in a workmanlike manner. In the event that the City Specifications and/or permit conditions are not followed, the applicant agrees to assume liability for any costs incurred by the City for corrective work required to bring the subject area into compliance with said Specifications. By applying for and accepting this permit, permit holder agrees to assume liability for any and all damages resulting from his occupancy, use or excavation of the street or premises. No work shall commence prior to approval of this permit by the Department of Public Works.

The applicant shall make all permanent or temporary repairs to any/all excavations caused by the work done herein as directed by the City. All repairs shall be done in accordance with standards and specifications in place at the time this permit is issued. My signature, as the applicant/permittee, acknowledges that I have read the above, understand the same and agree to be bound by the terms herein.

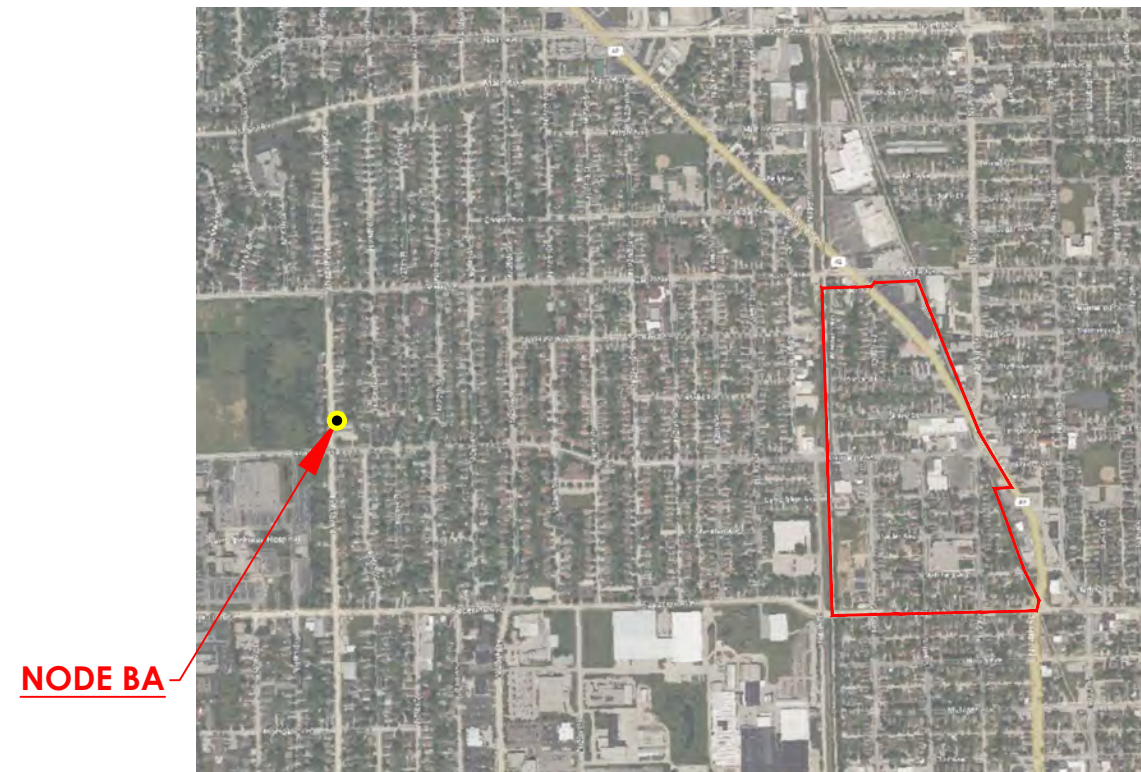
**APPROVED BY:** \_\_\_\_\_  
 (Department of Public Works)

**DATE:** \_\_\_\_\_



**DFN NAME: SHEBWI\_0930BA\_11**

**PROJECT NAME: SHEBOYGAN, WI FTTX BUILD  
SHEBOYGAN, WI**





PERMIT LOCATION MAP



PERMIT JURISDICTION:	SHEBOYGAN, WI	SHEETS: C01-C16	SHEBOYGAN COUNTY	SHEETS: C05, C13
NEW UNDERGROUND	17,429'	SHEETS: C01-C16	171'	SHEETS: C05, C13
NEW UG IN ROW	17,429'	SHEETS: C01-C16		
NEW UG IN EASEMENTS	0'	N/A		
EXISTING UNDERGROUND	0'	N/A	0'	N/A
NEW AERIAL	0'	N/A	0'	N/A
PERMIT FT	17,429'		171'	
TOTAL FT	17,600'			
TOTAL MILES	3.33			



Diggers Hotline, Inc.  
811 or 1-800-242-8511

LEGEND

- PROPOSED PEDESTAL
- PROPOSED HANDHOLE
- BORE PIT
- EXISTING UTILITY POLE
- PROPOSED POLE RISER
- PROPOSED ANCHOR
- PROP DIRECTIONAL BORE (1 DUCT)
- PROP DIRECTIONAL BORE (2 DUCT)
- PROPOSED DIRECT BURY
- PROPOSED AERIAL
- PROPOSED OVERHEAD GUY
- OPTI-TAP/SPLITTER FIBER DROP
- FUTURE SINGLE SERVICE FIBER DROP
- RIGHT OF WAY
- UTILITY EASEMENT
- PROPERTY LINE
- GAS LINE
- WATER MAIN
- SEWER
- STORM DRAIN
- POWER LINE
- GAS STRUCTURE
- DRAINAGE STRUCTURE
- WATER STRUCTURE
- ELECTRIC STRUCTURE
- SANITARY STRUCTURE

SHEBWI\_0930BA\_11

CONSTRUCTION DRAWING

PREPARED FOR:



T: (207) 591-6427 F: (207) 772-3427  
info@tilsontech.com

REVISIONS

DATE	DESCRIPTION	INITIAL
12/29/22	INITIAL SUBMISSION	NV
01/12/23	REV 1	NV
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SCALE: 1" = 50'

DRAFTED BY:	SHEET NUMBER	REV
NV	A02 OF A03	1



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E02	HALF-ROAD CLOSURE LOW & MODERATE VOLUME
E03	2 - LANE COLLECTOR / ARTERIAL MODERATE VOLUME
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E08	SIDEWALK CLOSURE DETAIL



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SPLICECASE

SPLICE A4

SPLICE B8G

SPLICE C12

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SCALE: 1" = 50'

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NV	A03 OF A03	1

CONTACT SHEET

ENGINEERING CONTRACTOR

TILSON		
ASSOCIATE VICE PRESIDENT, OSP: SPENCER WHITE	(770) 653-8092	
VP, ENGINEERING: TONY WEDELL	(651) 260-5493	
SENIOR OSP ENGINEERING MANAGER: LISA ENMAN	(207) 712-8796	
ENGINEERING PROJECT MANAGER: SEAN RILEY	(603) 205-2891	
DIRECTOR, OSP CONSTRUCTION: MIKE SMITH	(954) 520-5169	
OSP REGIONAL MANAGER: TODD CORCORAN	(774) 437-9451	
PROJECT MANAGER: LARRY HELTER	(405) 245-0176	

CONSTRUCTION CONTRACTOR

TDS METROCOM

ENGINEERING		
DIRECTOR - NETWORK CONSTRUCTION: WADE SOCZKA	(608) 664-4847	
SR. MANAGER - OSP CONSTRUCTION: PAUL SCHULTZ	(608) 664-4099	
MANAGER - PROJECT IMPLEMENTATION: RANDY BUSHMAN	(920) 882-3140	
MANAGER - OSP CONSTRUCTION: LEAH WISDORF	(608) 664-4172	
MANAGER - OSP CONSTRUCTION & ENGINEERING: KEVIN BERRETT	(608) 664-4423	
MANAGER - OOT: SEAN MURRAY	(608) 664-4606	
NETWORK SPECIALIST 2: BRANDON SUCHLA	(608) 370-1608	
NETWORK SPECIALIST 1: SAWYER MOSLEY	(262) 247-5277	
NETWORK SPECIALIST 1: NATE SMITH	(920) 397-7733	
NETWORK SPECIALIST: TERRY ARMSTRONG	(865) 218-4405	
MANAGER - BUSINESS DEVELOPMENT: JOSH WORRELL	(608) 664-9530	
CATEGORY MANAGER CONTRACTS: JON FINSETH	(608) 664-4067	
DIRECTOR - NEW MARKET DEVELOPMENT: STACIE WOODWORTH	(608) 664-5226	
PROJECT MANAGER - MSCO: EMILY POMMERENING	(608) 664-2421	
DIRECTOR - NETWORK ENGINEERING: CHRIS HASKIN	(608) 664-4443	
SUPERVISOR - CAD & GIS RECORDS: BRIAN RESCH	(608) 664-0148	
MANAGER - APPLICATION DEVELOPMENT: CHAD ANAUO	(608) 664-1222	
MANAGER - NETWORK ENGINEERING: BRIAN THOMASON	(785) 477-8582	
DIRECTOR - NEW MARKET IMPLEMENTATION: JEFF MAND	(608) 664-4157	
REGIONAL MANAGER - FIELD SERVICES: KENT JOHNSON	(608) 664-4739	
MANAGER - FIELD SERVICES: TIM BRUNS	(920) 460-4866	

UTILITIES

WISCONSIN PUBLIC SERVICE: KRISTINA HEAGLE	(920) 617-5171
ELECTRICAL INSPECTOR: KEVIN DAVISTER	(920) 448-3309
ELECTRICAL INSPECTOR: STEVE KRUEGER	(920) 448-3307
USIC NOTHERN WISCONSIN DISTRICT MANAGER: TYLER GUSTAVESON	(920) 750-8273
USIC OPERATIONS MANAGER: KIP KINGSFIELD	(715) 210-0055
USIC NE PROJECT SUPERVISOR: KALOM SHABAZZ	(920) 716-2564
USIC TDS PROJECT SUPERVISOR: BILL BUSCHKE	(920) 716-9152
USIC SENIOR TECHNICIAN: JOSHUA SWITALSKI	(414) 758-1854
WESTSHORE PIPELINE CONTACT: CASEY SCHWANDT	(920) 655-1428
WESTSHORE PIPELINE CONTACT: JANA OLTHOFF	(219) 741-0201

RAILROADS

UNION PACIFIC RR	
SENIOR ANALYST REAL ESTATE: THOMAS LEDDY	(402) 544-8571
WISCONNSIN & SOUTHERN RR	
WisDOT RR COORDINATOR: TERI BECKMAN	(608) 733-1923
RR REVIEW: BRENT MARSH	(608) 620-2035
RR ROADMASTER (FLAGGING): CHRIS JACOBSON	(414) 750-6427

FEDERAL GOVERNMENT

STATE GOVERNMENT

WISCONSIN DOT		
BUREAU OF HIGHWAY MAINTENANCE: BOB FASICK	(608) 266-3428	

COUNTY GOVERMENT

COUNTY OF SHEBOYGAN		
DIRECTOR OF TRANSPORTATION: GREG SCHNELL	(920) 459-3822	
COUNTY CLERK: JON DOLSON	(920) 459-3003	

LOCAL GOVERNMENT

CITY OF SHEBOYGAN		
DIRECTOR OF PUBLIC WORKS: DAVID BIEBEL	(920) 459-3366	
DAVID.BIEBEL@SHEBOYGANWI.GOV		
ROW PERMIT COORDINATOR: JORDAN SUCHA	(920) 459-3440	
JORDAN.SUCHA@SHEBOYGANWI.GOV		
CITY ENGINEER: RYAN J. SAZAMA	(920) 459-3485	
LICENSING CLERK: GARY VAN AUKEN	(920) 459-3393	
GARY.VANAUKEN@SHEBOYGANWI.GOV		
ELECTRICAL INSPECTOR: JOSEPH FOLGER	(920) 459-3479	
JOSEPH.FOLGER@SHEBOYGANWI.GOV		

OTHER



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811 or 1-800-242-8511

LEGEND

	PROPOSED PEDESTAL		SPLICE CASE
	PROPOSED HANDHOLE		SPLICE A4
	BORE PIT		SPLICE B8G
	EXISTING UTILITY POLE		SPLICE C12
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SHEBWI\_0930BA\_11

CONSTRUCTION DRAWING

PREPARED FOR:



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REVISIONS

DATE	DESCRIPTION	INITIAL
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01/12/23	REV 1	NV
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SCALE: N.T.S.

DRAFTED BY:	SHEET NUMBER	REV
NV	B01 OF B02	1

GENERAL NOTES

CITY OF SHEBOYGAN NOTES

REVISION NOTES CLARIFICATION

CONSTRUCTION NOTES

1. 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 TDS INSPECTOR OR CERTIFIED CONTRACTOR.
2. ALL WORK TO BE PERFORMED IN STRICT ACCORDANCE WITH THE APPLICABLE CODES OR REQUIREMENTS OF ANY REGULATING GOVERNMENT AGENCY, TDS METROCOMM, OR THE RIGHT-OF-WAY GRANTOR.
3. THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY FIELD INSPECTION AND A SEARCH OF THE AVAILABLE CITY OR COUNTY RECORDS. SINCE THE ACTUAL LOCATION NATURE OF THE UNDERGROUND FACILITIES MAY BE SOMEWHAT DIFFERENT FROM THAT SHOWN, THE CONTRACTOR IS REQUIRED TO VERIFY THE INFORMATION THROUGH 811 OR BY CONTACTING THE UTILITY COMPANIES DIRECTLY, PRIOR TO EXCAVATION.
4. UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE RECORDS AND FIELD OBSERVATIONS, BUT ARE NOT NECESSARILY EXACT.
5. ANY AND ALL IMPROVEMENTS, SUCH AS ASPHALT OR CONCRETE PAVEMENT, CURBS, GUTTERS, WALKS, DRAINAGE DITCHES, EMBANKMENTS, SHRUBS, TREES, GRASS SOD, ETC., IF IMPACTED, SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION AND PER JURISDICTION STANDARDS.
6. FRAC-OUT PLAN  
TO PREVENT MAJOR FRACK OUTS WHILE PERFORMING HORIZONTAL DRILLING THE CONTRACTOR WILL UTILIZE DRILLING EQUIPMENT WITH PROPERLY SIZED DRILL HEADS FITTED TO THE SIZE OF THE PIPE BEING PLACED AND CONTROLLED FLUID PRESSURES REQUIRED FOR SAFE PULL-BACK. IN MOST CASES THE CONTRACTOR WILL DIG SMALL START PITS AND END PITS TO CONTAIN DRILLING FLUID DURING THE PROCESS. IN THE EVENT OF A SMALL FRACK THE CONTRACTOR MUST BE EQUIPPED WITH HYDRO-VACS, SPILL CONTAINMENT NOODLES, AND SAND BAGS WITH DRILL TRUCKS EQUIPPED WITH 36" SQUEEGEES AND FRESH WATER. THE CONTRACTOR'S CREWS MUST BE TRAINED TO CLEAN UP DRILLING FLUIDS IMMEDIATELY OR DURING THE DRILLING PROCESS.

RESTORATION REQUIREMENTS:

1. AGGREGATE SLURRY BACKFILL IS REQUIRED IN ALL TRENCHES UNDER SIDEWALKS, DRIVEWAY APRONS, CURB AND GUTTER AND STREETS. IF A WATER SERVICE CURB STOP IS PRESENT, THE CURB STOP SHALL BE SEPARATE FROM THESE MATERIALS TO ALLOW FOR FUTURE ADJUSTMENTS. ALL TRENCHES, BOULEVARDS, AND OTHER GRASS AREAS SHALL BE BACKFILLED WITH EXCAVATED MATERIAL AND TOP DRESSED WITH 4" OF TOP SOIL, SEED, FERTILIZER AND MULCH.
2. IF RESTORATION IS TO COMMENCE BEFORE THE PERMIT EXPIRES, ANOTHER PERMIT DOESN'T NEED TO BE OBTAINED BY THE LICENSED CEMENT FINISHER OR ASPHALT PAVING COMPANY.

CONCRETE:

1. ALL CONCRETE WORK SHALL BE COMPLETED BY A CONTRACTOR THAT HAS OBTAINED A CEMENT FINISHERS LICENSE FROM THE CITY
2. AFTER OBTAINING A PERMIT, THE RESTORATION CONTRACTOR SHALL NOTIFY A CITY ENGINEERING TECHNICIAN TO HAVE THE RESTORATION LIMITS MARKED OUT. ALL CONCRETE MARKED FOR REMOVAL SHALL BE SAWCUT TO THE FULL DEPTH OF CONCRETE. GENERAL REQUIREMENTS FOR RESTORATION OF CONCRETE ARE AS FOLLOWS:

2.1. FULL PANEL REPLACEMENT FOR A STREET LESS THAN 8 YEARS OLD  
HALF PANEL REPLACEMENT FOR A STREET BETWEEN 8 AND 15 YEARS OLD  
EXCAVATION PLUS 1' FOR STREETS OVER 16 YEARS OLD. IF THE REMAINING AREA IN THE PARCEL BETWEEN THE EXCAVATION AND THE NEAREST JOINT IS LESS THAN 4', THE ADDITIONAL AREA TO THE NEAREST JOINT SHALL ALSO BE INCLUDED IN THE REPAIR

2.2. ALL JOINTS IN THE NEW PAVEMENT, INCLUDING WHERE THE NEW CONCRETE MATCHES INTO EXISTING CONCRETE, SHALL BE SAWCUT TO A MAXIMUM DEPTH OF ¼ THICKNESS OF THE PAVEMENT BUT NOT LESS THAN 1 ½" PRIOR TO BEING SEALED

2.3. ALL JOINTS IN THE PAVEMENT SHALL BE SEALED

2.4. IF SIDEWALK PANELS ARE DAMAGED, FULL SIDEWALK PANELS SHALL BE REPLACED

2.5. DRIVEWAY APRONS THAT ARE 9' OR LESS FROM THE SIDEWALK TO THE BACK OF THE CURB SHALL BE REPLACED IN THEIR ENTIRETY. ON OTHER APRONS, CONTRACTOR SHALL REPLACE FULL PANELS TO THE NEAREST JOINT
3. AFTER THE SITE IS PREPPED AND READY FOR CONCRETE, THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEERING TECHNICIAN AGAIN FOR INSPECTION PRIOR TO THE PERMANENT PATCH BEING INSTALLED

ASPHALT:

1. AFTER OBTAINING A PERMIT, THE RESTORATION CONTRACTOR SHALL NOTIFY A CITY ENGINEERING TECHNICIAN TO HAVE THE RESTORATION LIMITS MARKED OUT. ALL ASPHALT MARKED FOR REMOVAL SHALL BE SAWCUT TO THE FULL DEPTH OF THE ASPHALT.
2. THE ASPHALT SURFACE WILL BE REPAIRED BY EXCAVATING A MINIMUM OF 1' LARGER THAN THE INITIAL EXCAVATION, BUT NOT LESS THAN 4' IN ANY DIRECTION. THE ASPHALT PATCH WILL BE INSTALLED AT A THICKNESS EQUAL TO THE ADJACENT EXISTING ASPHALT BUT NOT LESS THAN 3" THICK. THE CONTRACTOR MAY BE REQUIRED TO RE-SAWCUT AFTER BACKFILLING IN ORDER TO PROVIDE A STRAIGHT BUTT JOINT
3. FROM NOVEMBER 1 TO APRIL 15TH, CONTRACTOR SHALL INSTALL A COLD MIX ASPHALT PATCH UNLESS HOT MIX IS AVAILABLE, OR A TEMPORARY CONCRETE PATCH. PERMIT HOLDER MUST MAINTAIN THE TEMPORARY PATCH UNTIL THE PERMANENT PATCH IS INSTALLED. PERMANENT PATCH MUST BE INSTALLED AFTER MAY, BUT NO LATER THAN AUGUST 31 THE FOLLOWING YEAR.

EROSION CONTROL:

1. THE CONTRACTOR WILL USE E-MATTING ON FLAT SURFACES WHERE RESTORATION/EROSION CONTROL IS REQUIRED. CONTRACTORS WILL AVOID USING BORE PITS UNLESS NECESSARY. WHERE BORE PITS ARE NECESSARY CONTRACTORS WILL AVOID RUNOFF INTO STREETS OR STORM DRAINS BY USING SWADDLES OR SILT FENCES. ON SLOPED SURFACES THE CONTRACTOR WILL USE SWADDLES OR IF NECESSARY, SILT FENCES.
2. THE EXCAVATION AROUND PULL BOXES/ HANDHOLES WILL BE DONE MAINLY WITH HYDROVAC'S, EXCAVATORS, OR SHOVELS. WHEN DOING RESTORATION THE CONTRACTOR WILL FILL SHOVELED/HYDROVACED POTHOLES AND SHOVELED/HYDROVACED HOLES WITH ROCK AND TOP 4 INCHES WITH BLACK DIRT. WHERE EXCAVATED THE CONTRACTOR WILL FILL WITH SOME EXCAVATED MATERIAL OR ROCK AND 4 INCHES OF BLACK DIRT. SMALLER AREAS WILL BE SEEDED RIGHT AFTER BLACK DIRT HAS BEEN PLACED AND STRAWED, LARGER AREAS WILL INCLUDE E-MATTING WHERE NEEDED.
3. PROTECTION WILL ALSO BE ADDED TO GUTTERS AND DRAINS IN AREAS WHERE HEAVY EXCAVATION OCCURS. THE USE OF EITHER STRAW SWADDLES OR SANDBAGS TO PREVENT RUNOFF FROM THE JOB SITES AND TO PREVENT DRAINS FROM GETTING CLOGGED IF HEAVY RAINFALL AND RUNOFF. SEE DETAILS D08-D14, REFER TO SYMBOLS KEY FOR INLET PROTECTION LOCATION.

EROSION CONTROL:  
ALL CONSTRUCTION SITE EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE ADJUSTED TO MEET FIELD CONDITIONS AND IN PLACE PRIOR TO THE START OF CONSTRUCTION AND WILL COMPLY WITH THE STATE OF WISCONSIN DEPARTMENT OF NATURAL RESOURCES (WDNR) STORM WATER MANAGEMENT TECHNICAL STANDARDS. ALL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE INSPECTED AT A MINIMUM WEEKLY AND WITHIN 24 HOURS FOLLOWING A RAINFALL OF 0.5 INCHES OR GREATER. AN EROSION AND SEDIMENT CONTROL PRACTICE INSPECTION LOG SHALL BE MAINTAINED AT ALL TIMES DURING THE PROJECT. EROSION AND SEDIMENT CONTROL PRACTICES SHALL NOT BE REMOVED UNTIL THE CONSTRUCTION SITE IS STABILIZED WITH A DENSE VEGETATIVE COVER AND OR IMPERVIOUS AREAS AND NO LONGER SUSCEPTIBLE TO EROSION. REFER TO WDNR'S WEB PAGE REGARDING STORM WATER MANAGEMENT TECHNICAL STANDARDS.

OTHER REQUIREMENTS :

- 1.WHEREVER POSSIBLE, INSTALLATION OF MANHOLES AND VAULTS SHOULD BE AVOIDED IN SIDEWALKS AND STREET CROSSWALK AREAS.
- 2.WHERE UNAVOIDABLE, MANHOLE AND VAULT COVERS IN SIDEWALKS OR CROSSWALKS MUST HAVE NON-SKID SURFACES.

AGGREGATE SLURRY BACKFILL IS REQUIRED IN ALL EXCAVATIONS FOR LATERAL REPAIRS, MANHOLE REPAIRS, UTILITY SPOT REPAIRS, AND UTILITY VALVE AND CURB STOP REPAIRS.

DURING WINTER MONTHS (NOVEMBER 1 TO APRIL 15), THE CONTRACTOR WILL BE ALLOWED TO USE GRANULAR BACKFILL. HOWEVER, NO EXCAVATED MATERIAL REMOVED FROM THE TRENCH DURING THE CONSTRUCTION/REPAIR UTILITY WORK WILL BE ALLOWED TO BE REUSED AS BACKFILL WITHOUT PRIOR APPROVAL FROM THE CITY INSPECTOR.

ALL TRENCHES IN TERRACES, BOULEVARDS, AND OTHER GRASS AREAS SHALL BE BACKFILLED WITH EXCAVATED MATERIAL AND TOP DRESSED WITH 4 INCHES OF TOPSOIL, SEED, FERTILIZER, AND MULCH. HOWEVER, NO EXCAVATED MATERIAL REMOVED FROM THE TRENCH DURING THE CONSTRUCTION/REPAIR UTILITY WORK WILL BE ALLOWED TO BE REUSED AS BACKFILL WITHOUT PRIOR APPROVAL FROM THE CITY INSPECTOR.

REV 0 -	INITIAL SUBMISSION	12/29/22
REV 1 -	CITY COMMENTS	01/12/23



Diggers Hotline, Inc.  
811 or 1-800-242-8511

LEGEND

PROPOSED PEDESTAL

PROPOSED HANDHOLE

BORE PIT

EXISTING UTILITY POLE

PROPOSED POLE RISER

PROPOSED ANCHOR

DB

Db

DB

Db

A

A

R/W

UE

P/L

G

W

S

SD

E

GAS STRUCTURE

WATER STRUCTURE

SANITARY STRUCTURE

SPLICECASE

SPLICE A4

SPLICE B8G

SPLICE C12

PROP DIRECTIONAL BORE (1 DUCT)

PROP DIRECTIONAL BORE (2 DUCT)

PROPOSED DIRECT BURY

PROPOSED AERIAL

PROPOSED OVERHEAD GUY

OPTI-TAP/SPLITTER FIBER DROP

FUTURE SINGLE SERVICE FIBER DROP

RIGHT OF WAY

UTILITY EASEMENT

PROPERTY LINE

GAS LINE

WATER MAIN

SEWER

STORM DRAIN

POWER LINE

DRAINAGE STRUCTURE

ELECTRIC STRUCTURE

SHEBWI\_0930BA\_11

CONSTRUCTION DRAWING

PREPARED FOR:



T: (207) 591-6427 F: (207) 772-3427  
info@tilsontech.com

REVISIONS

DATE	DESCRIPTION	INITIAL
12/29/22	INITIAL SUBMISSION	NV
01/12/23	REV 1	NV
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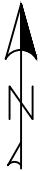
SCALE: N.T.S.

DRAFTED BY:	SHEET NUMBER	REV
NV	B02 OF B02	1

C:\Users\cmccoy\OneDrive\Documents\Sheboygan\ShebWI\_0930BA\_11\Drawings\Sheet\ShebWI\_0930BA\_11.dwg Jan 12, 2023 10:25am



NOTES:  
1) RIGHT-OF-WAY ARE DEPICTED BASED ON FIELD OBSERVATION AND FROM DEEDS, MAPS, ASSESSOR RECORDS, & OTHER PUBLIC MUNICIPALITY RECORD ON FILE. IF FURTHER ACCURACY IS REQUIRED, LAND SURVEYS WILL BE NECESSARY.  
2) REMOVE & REPLACE ALL EXISTING MATERIAL TO BETTER OR EQUAL CONDITION & PER SHEBOYGAN REQUIREMENTS.  
3) UTILITIES SHOWN ARE NOT TO SCALE, CONTRACTOR TO CONTACT 811 TO VERIFY UTILITY LOCATION, DEPTH, & SIZE.  
4) DIRECTIONAL BORING MUST BE AT LEAST 5 FEET HORIZONTAL CLEARANCE FROM EXISTING UTILITIES & 24" VERTICAL CLEARANCE FROM EXISTING UTILITIES UNLESS OTHERWISE NOTED ON JURISDICTION PERMIT NOTES. (REFER TO SHEET B02 FOR PERMIT NOTES)  
5) FOR ACCESS POINT HANDHOLES LOCATED BETWEEN THE CURB AND SIDEWALK, CONTRACTOR TO BORE AND PLACE 1-1.25" CONDUIT AT 18" DEPTH BELOW GRADE UNDER SIDEWALK PANEL FROM ACCESS POINT AND CAP CONDUIT TO EDGE OF ROW.  
6) SEE SUPPLEMENTAL PERMIT CONDITIONS FOR ADDITIONAL CLARITY ON UTILITY SEPARATION/INSTALLATION.  
7) MAINTAIN 5' VERTICAL AND 3' HORIZONTAL DISTANCE FROM CITY UTILITIES.  
8) MAINTAIN 24" BELOW TREES AND 5' AWAY FROM TREES IF TRENCHING.  
9) 24" MIN BURIED DEPTH FOR NEW UG CONDUIT PLACEMENT.



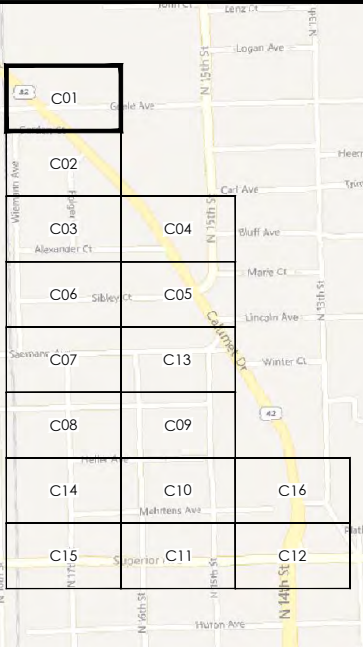
Diggers Hotline, Inc.  
811 or 1-800-242-8511

LEGEND

- PROPOSED PEDESTAL
- PROPOSED HANDHOLE
- BORE PIT
- EXISTING UTILITY POLE
- PROPOSED POLE RISER
- PROPOSED ANCHOR
- PROP DIRECTIONAL BORE (1 DUCT)
- PROP DIRECTIONAL BORE (2 DUCT)
- PROPOSED DIRECT BURY
- PROPOSED AERIAL
- PROPOSED OVERHEAD GUY
- OPTI-TAP/SPLITTER FIBER DROP
- FUTURE SINGLE SERVICE FIBER DROP
- RIGHT OF WAY
- UTILITY EASEMENT
- PROPERTY LINE
- GAS LINE
- WATER MAIN
- SEWER
- STORM DRAIN
- POWER LINE
- GAS STRUCTURE
- WATER STRUCTURE
- SANITARY STRUCTURE
- SPLICECASE
- SPLICE A4
- SPLICE B8G
- SPLICE C12
- DRAINAGE STRUCTURE
- ELECTRIC STRUCTURE

SHEBWI\_0930BA\_11

CONSTRUCTION DRAWING



PREPARED FOR:



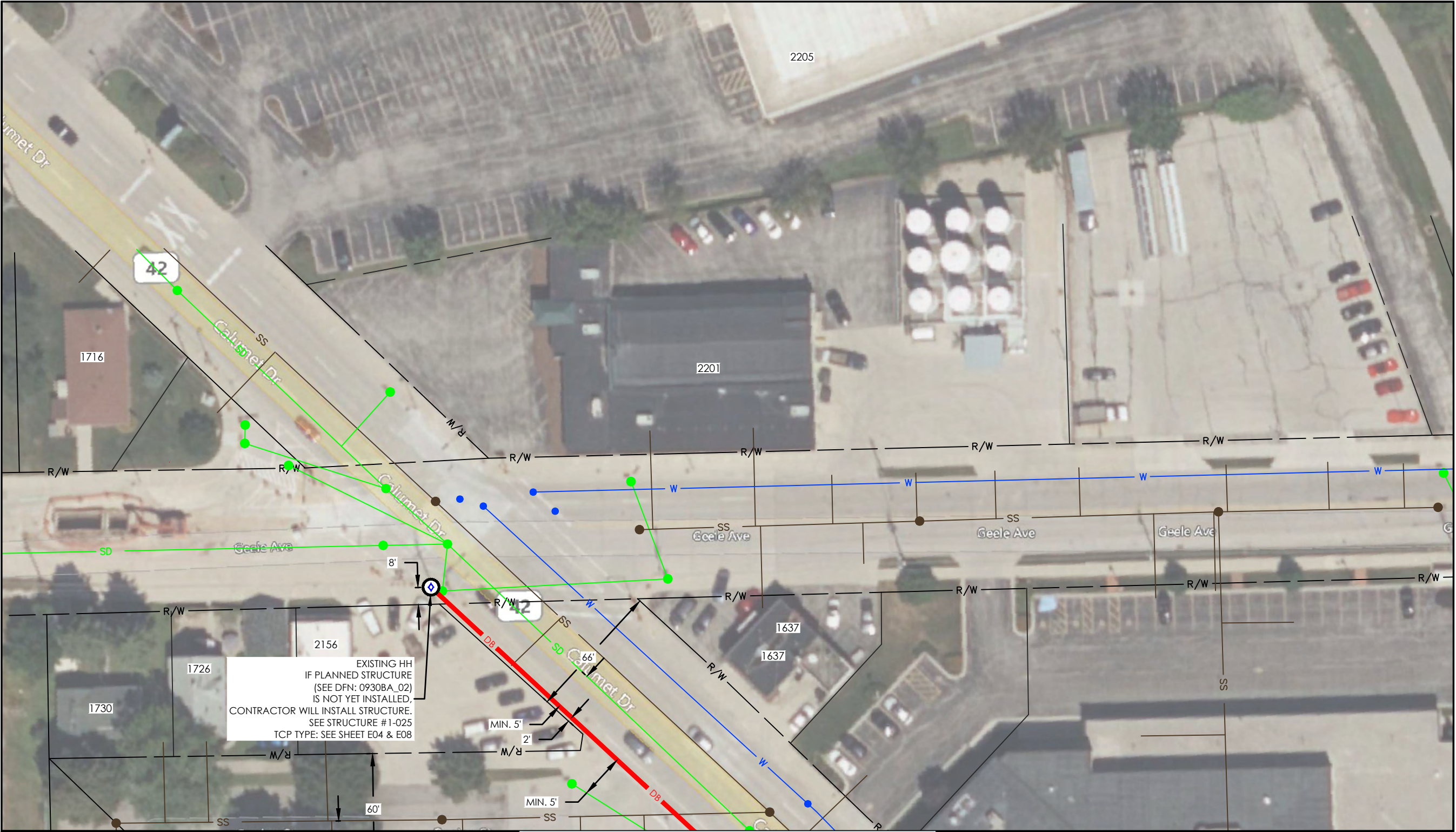
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REVISIONS

DATE	DESCRIPTION	INITIAL
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01/12/23	REV 1	NV

SCALE: 1" = 50'

DRAFTED BY:	SHEET NUMBER	REV
NV	C01 OF C16	1



EXISTING HH  
IF PLANNED STRUCTURE  
(SEE DFN: 0930BA\_02)  
IS NOT YET INSTALLED.  
CONTRACTOR WILL INSTALL STRUCTURE.  
SEE STRUCTURE #1-025  
TCP TYPE: SEE SHEET E04 & E08

MATCH TO SHEET #C2



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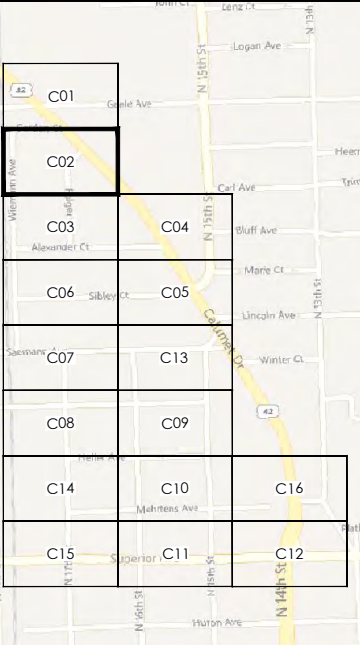
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- WATER STRUCTURE
- SANITARY STRUCTURE
- SPLICECASE
- SPLICE A4
- SPLICE B8G
- SPLICE C12

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CONSTRUCTION DRAWING



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REVISIONS

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01/12/23	REV 1	NV

SCALE: 1" = 50'

DRAFTED BY:	SHEET NUMBER	REV
NV	C02 OF C16	1



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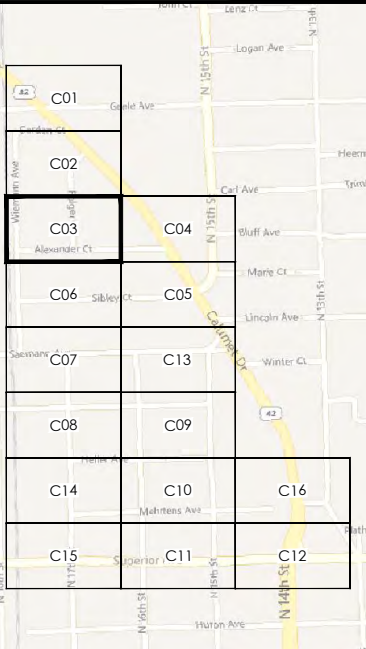
Diggers Hotline, Inc.  
811 or 1-800-242-8511

LEGEND

- |  |                                  |  |                    |
|--|----------------------------------|--|--------------------|
|  | PROPOSED PEDESTAL                |  | SPLICE CASE        |
|  | PROPOSED HANDHOLE                |  | SPLICE A4          |
|  | BORE PIT                         |  | SPLICE B8G         |
|  | EXISTING UTILITY POLE            |  | SPLICE C12         |
|  | PROPOSED POLE RISER              |  |                    |
|  | PROPOSED ANCHOR                  |  |                    |
|  | PROP DIRECTIONAL BORE (1 DUCT)   |  |                    |
|  | PROP DIRECTIONAL BORE (2 DUCT)   |  |                    |
|  | PROPOSED DIRECT BURY             |  |                    |
|  | PROPOSED AERIAL                  |  |                    |
|  | PROPOSED OVERHEAD GUY            |  |                    |
|  | OPTI-TAP/SPLICER FIBER DROP      |  |                    |
|  | FUTURE SINGLE SERVICE FIBER DROP |  |                    |
|  | RIGHT OF WAY                     |  |                    |
|  | UTILITY EASEMENT                 |  |                    |
|  | PROPERTY LINE                    |  |                    |
|  | GAS LINE                         |  |                    |
|  | WATER MAIN                       |  |                    |
|  | SEWER                            |  |                    |
|  | STORM DRAIN                      |  |                    |
|  | POWER LINE                       |  |                    |
|  | GAS STRUCTURE                    |  | DRAINAGE STRUCTURE |
|  | WATER STRUCTURE                  |  | ELECTRIC STRUCTURE |
|  | SANITARY STRUCTURE               |  |                    |

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CONSTRUCTION DRAWING



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01/12/23	REV 1	NV

SCALE: 1" = 50'

DRAFTED BY:	SHEET NUMBER	REV
NV	C03 OF C16	1

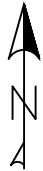
MATCH TO SHEET #C2

MATCH TO SHEET #C6

MATCH TO SHEET #C4



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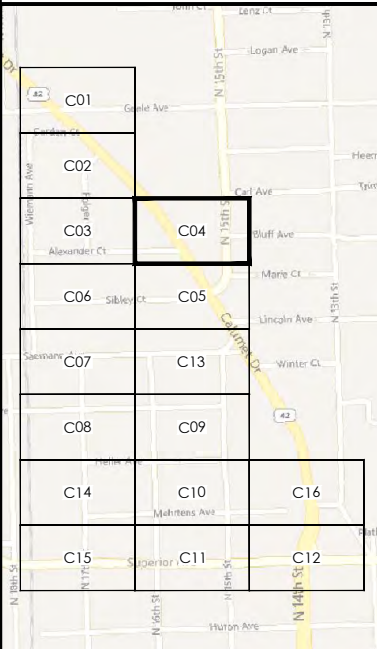
Diggers Hotline, Inc.  
811 or 1-800-242-8511

LEGEND

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- SPLICE C12

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CONSTRUCTION DRAWING



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REVISIONS

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12/29/22	INITIAL SUBMISSION	NV
01/12/23	REV 1	NV

SCALE: 1" = 50'

DRAFTED BY:	SHEET NUMBER	REV
NV	C04 OF C16	1

MATCH TO SHEET #C3

MATCH TO SHEET #C5



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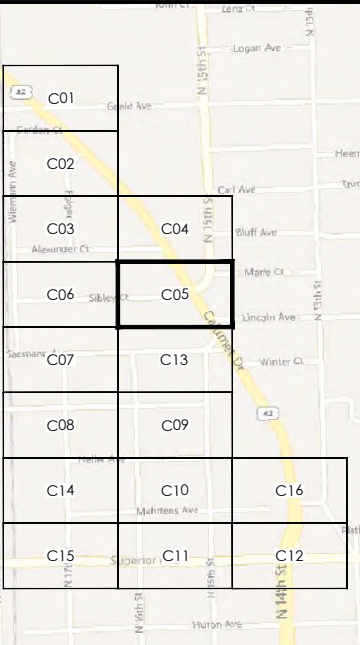
Diggers Hotline, Inc.  
811 or 1-800-242-8511

LEGEND

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SHEBWI\_0930BA\_11

CONSTRUCTION DRAWING



PREPARED FOR:



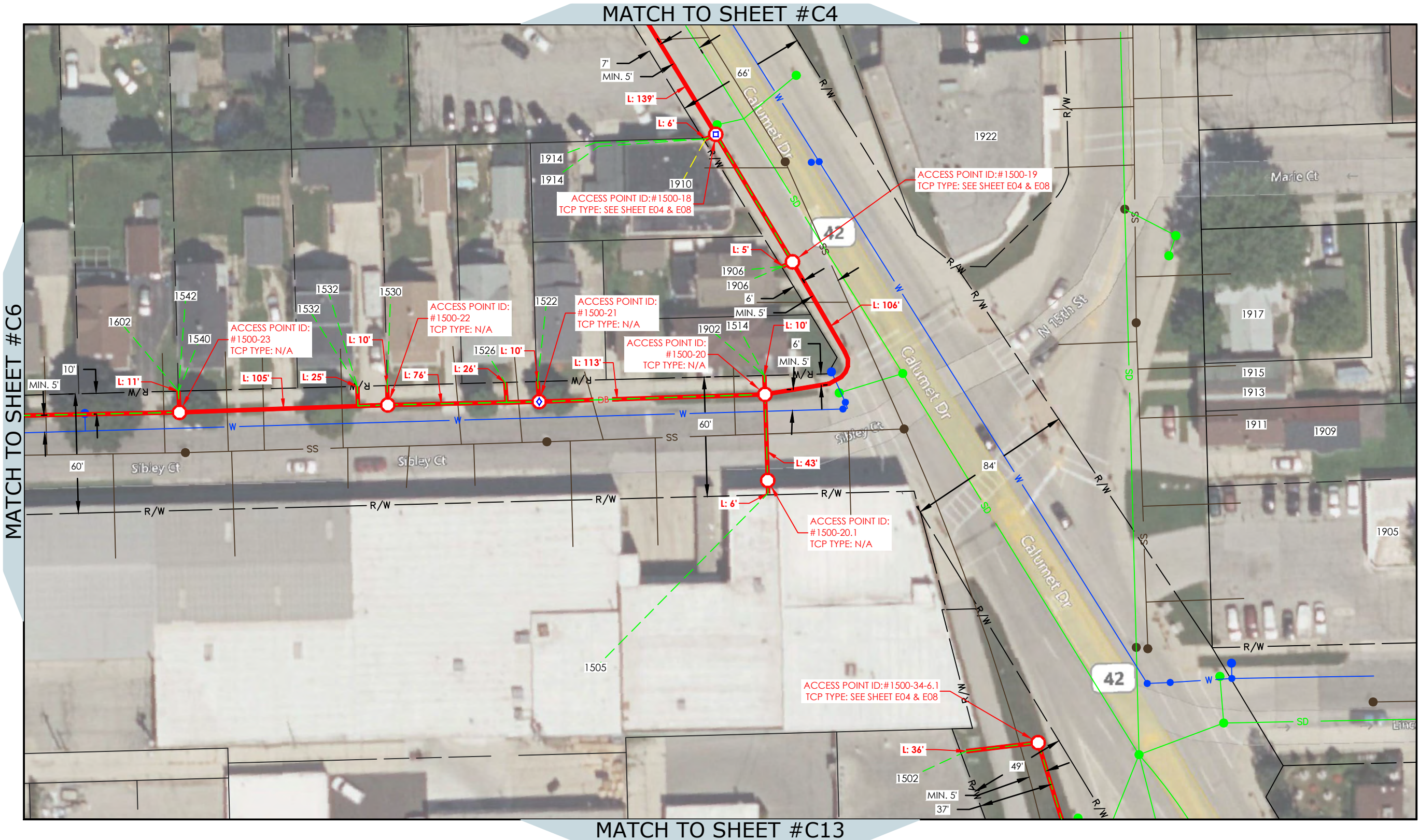
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REVISIONS

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SCALE: 1" = 50'

DRAFTED BY:	SHEET NUMBER	REV
NV	C05 OF C16	1





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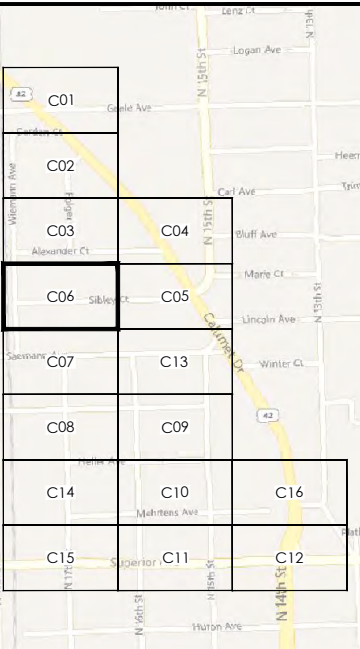
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LEGEND

- |  |                                  |  |                    |
|--|----------------------------------|--|--------------------|
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|  | RIGHT OF WAY                     |  |                    |
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|  | GAS LINE                         |  |                    |
|  | WATER MAIN                       |  |                    |
|  | SEWER                            |  |                    |
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NV	C06 OF C16	1

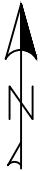
MATCH TO SHEET #C3

MATCH TO SHEET #C7

MATCH TO SHEET #C5



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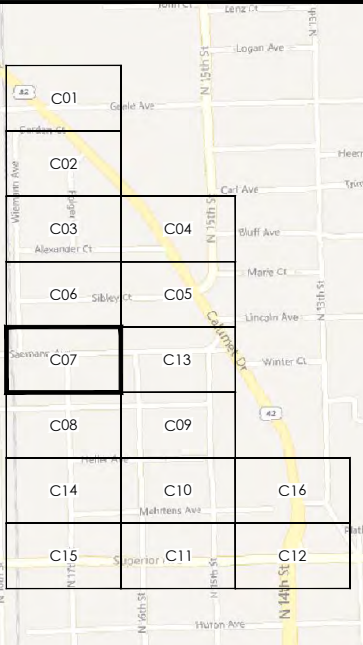
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SCALE: 1" = 50'

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NV	C07 OF C16	1

MATCH TO SHEET #C6

MATCH TO SHEET #C8

MATCH TO SHEET #C13



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  - 6) SEE SUPPLEMENTAL PERMIT CONDITIONS FOR ADDITIONAL CLARITY ON UTILITY SEPARATION/INSTALLATION.
  - 7) MAINTAIN 5" VERTICAL AND 3" HORIZONTAL DISTANCE FROM CITY UTILITIES.
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  - 9) 24" MIN BURIED DEPTH FOR NEW UG CONDUIT PLACEMENT.



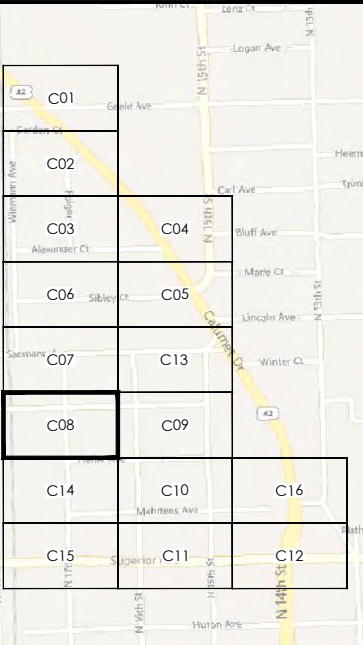
Diggers Hotline, Inc.  
811 or 1-800-242-8511

LEGEND

- PROPOSED PEDESTAL
- PROPOSED HANDHOLE
- BORE PIT
- EXISTING UTILITY POLE
- PROPOSED POLE RISER
- PROPOSED ANCHOR
- PROP DIRECTIONAL BORE (1 DUCT)
- PROP DIRECTIONAL BORE (2 DUCT)
- PROPOSED DIRECT BURY
- PROPOSED AERIAL
- PROPOSED OVERHEAD GUY
- OPTI-TAP/SPLITTER FIBER DROP
- FUTURE SINGLE SERVICE FIBER DROP
- RIGHT OF WAY
- UTILITY EASEMENT
- PROPERTY LINE
- GAS LINE
- WATER MAIN
- SEWER
- STORM DRAIN
- POWER LINE
- GAS STRUCTURE
- WATER STRUCTURE
- SANITARY STRUCTURE
- SPLICECASE
- SPLICE A4
- SPLICE B8G
- SPLICE C12

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CONSTRUCTION DRAWING



PREPARED FOR:



T: (207) 591-6427 F: (207) 772-3427  
info@tilsontech.com

REVISIONS

DATE	DESCRIPTION	INITIAL
12/29/22	INITIAL SUBMISSION	NV
01/12/23	REV 1	NV

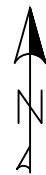
SCALE: 1" = 50'

DRAFTED BY:	SHEET NUMBER	REV
NV	C08 OF C16	1





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MATCH TO SHEET #C13



MATCH TO SHEET #C10



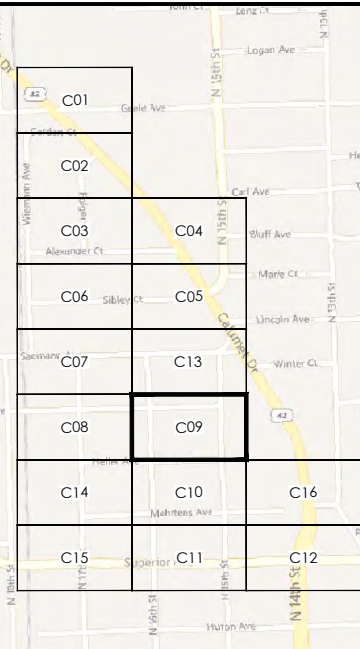
Diggers Hotline, Inc.  
811 or 1-800-242-8511

LEGEND

- PROPOSED PEDESTAL
- PROPOSED HANDHOLE
- BORE PIT
- EXISTING UTILITY POLE
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- FUTURE SINGLE SERVICE FIBER DROP
- RIGHT OF WAY
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- PROPERTY LINE
- GAS LINE
- WATER MAIN
- SEWER
- STORM DRAIN
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- GAS STRUCTURE
- WATER STRUCTURE
- SANITARY STRUCTURE
- SPLICECASE
- SPLICE A4
- SPLICE B8G
- SPLICE C12

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CONSTRUCTION DRAWING



PREPARED FOR:



T: (207) 591-6427 F: (207) 772-3427  
info@tilsontech.com

REVISIONS

DATE	DESCRIPTION	INITIAL
12/29/22	INITIAL SUBMISSION	NV
01/12/23	REV 1	NV

SCALE: 1" = 50'

DRAFTED BY:	SHEET NUMBER	REV
NV	C09 OF C16	1



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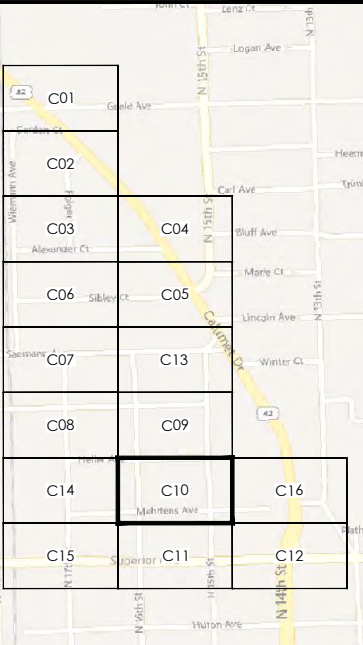
Diggers Hotline, Inc.  
811 or 1-800-242-8511

LEGEND

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- PROPOSED HANDHOLE
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- WATER STRUCTURE
- SANITARY STRUCTURE
- DRAINAGE STRUCTURE
- ELECTRIC STRUCTURE

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CONSTRUCTION DRAWING



PREPARED FOR:



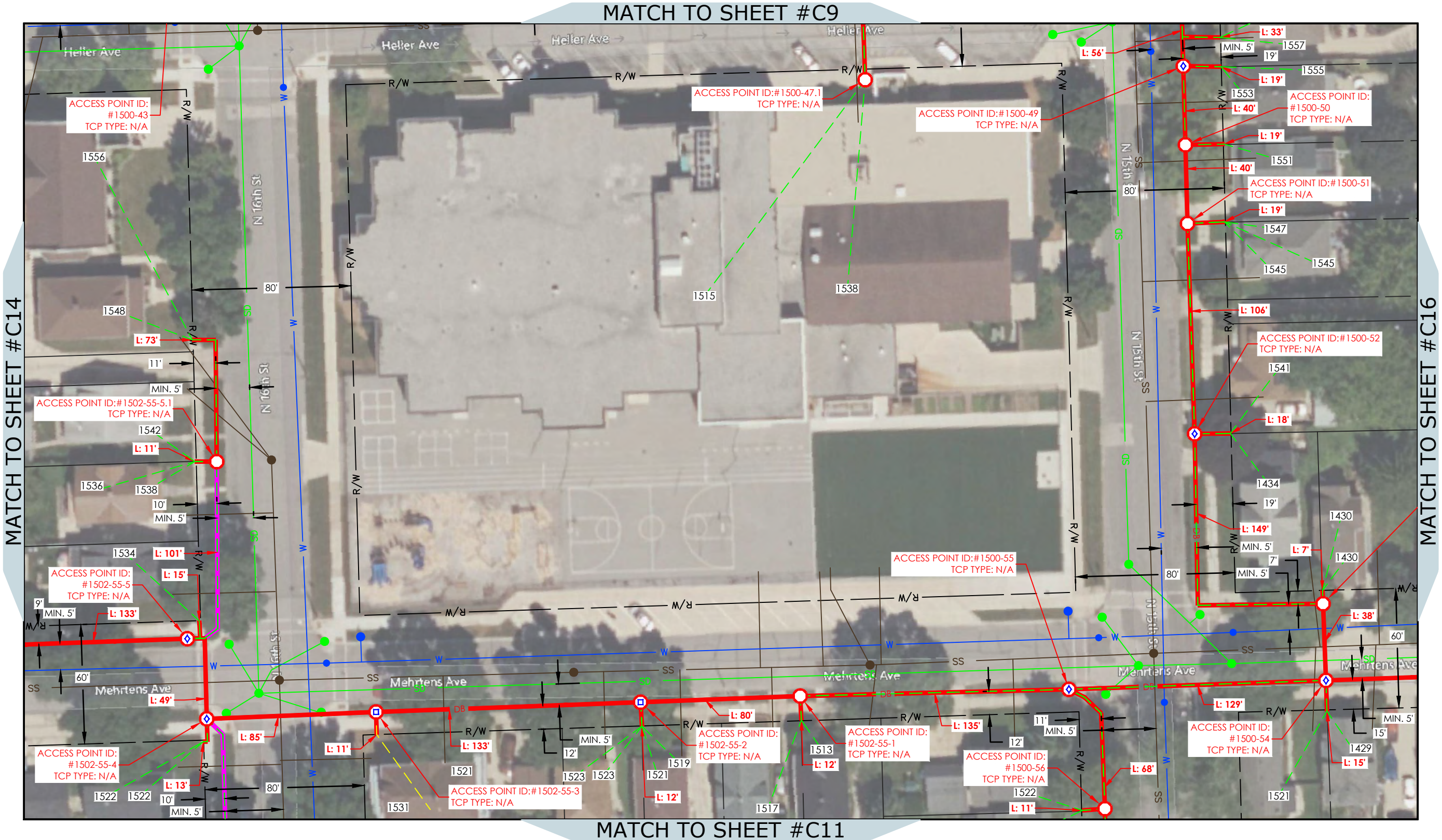
T: (207) 591-4427 F: (207) 772-3427  
info@tilsontech.com

REVISIONS

DATE	DESCRIPTION	INITIAL
12/29/22	INITIAL SUBMISSION	NV
01/12/23	REV 1	NV

SCALE: 1" = 50'

DRAFTED BY:	SHEET NUMBER	REV
NV	C10 OF C16	1





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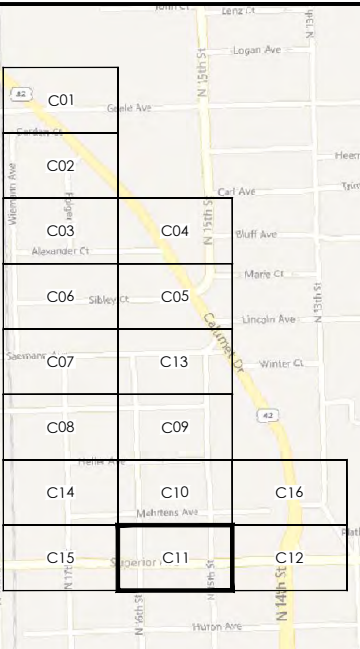
Diggers Hotline, Inc.  
811 or 1-800-242-8511

LEGEND

- PROPOSED PEDESTAL
- PROPOSED HANDHOLE
- BORE PIT
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- WATER STRUCTURE
- SANITARY STRUCTURE
- SPLICECASE
- SPLICE A4
- SPLICE B8G
- SPLICE C12

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CONSTRUCTION DRAWING



PREPARED FOR:



T: (207) 591-4427 F: (207) 772-3427  
info@tilsontech.com

REVISIONS

DATE	DESCRIPTION	INITIAL
12/29/22	INITIAL SUBMISSION	NV
01/12/23	REV 1	NV

SCALE: 1" = 50'

DRAFTED BY:	SHEET NUMBER	REV
NV	C11 OF C16	1

MATCH TO SHEET #C10



MATCH TO SHEET #C15

MATCH TO SHEET #C12



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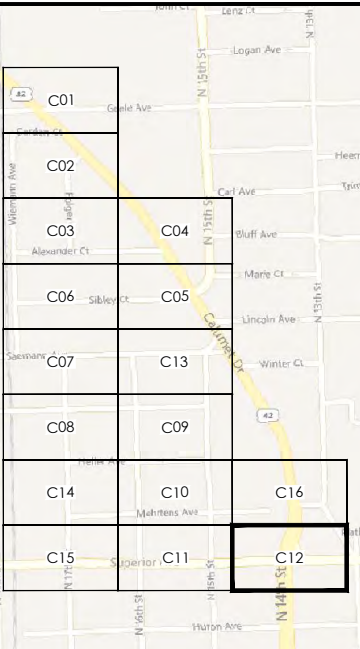
Diggers Hotline, Inc.  
811 or 1-800-242-8511

#### LEGEND

- |  |                                  |  |                    |
|--|----------------------------------|--|--------------------|
|  | PROPOSED PEDESTAL                |  | SPLICE CASE        |
|  | PROPOSED HANDHOLE                |  | SPLICE A4          |
|  | BORE PIT                         |  | SPLICE B8G         |
|  | EXISTING UTILITY POLE            |  | SPLICE C12         |
|  | PROPOSED POLE RISER              |  |                    |
|  | PROPOSED ANCHOR                  |  |                    |
|  | PROP DIRECTIONAL BORE (1 DUCT)   |  |                    |
|  | PROP DIRECTIONAL BORE (2 DUCT)   |  |                    |
|  | PROPOSED DIRECT BURY             |  |                    |
|  | PROPOSED AERIAL                  |  |                    |
|  | PROPOSED OVERHEAD GUY            |  |                    |
|  | OPTI-TAP/SPLITER FIBER DROP      |  |                    |
|  | FUTURE SINGLE SERVICE FIBER DROP |  |                    |
|  | RIGHT OF WAY                     |  |                    |
|  | UTILITY EASEMENT                 |  |                    |
|  | PROPERTY LINE                    |  |                    |
|  | GAS LINE                         |  |                    |
|  | WATER MAIN                       |  |                    |
|  | SEWER                            |  |                    |
|  | STORM DRAIN                      |  |                    |
|  | POWER LINE                       |  |                    |
|  | GAS STRUCTURE                    |  | DRAINAGE STRUCTURE |
|  | WATER STRUCTURE                  |  | ELECTRIC STRUCTURE |
|  | SANITARY STRUCTURE               |  |                    |

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#### CONSTRUCTION DRAWING



PREPARED FOR:



T: (207) 591-6427 F: (207) 772-3427  
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#### REVISIONS

DATE	DESCRIPTION	INITIAL
12/29/22	INITIAL SUBMISSION	NV
01/12/23	REV 1	NV

SCALE: 1" = 50'

DRAFTED BY:	SHEET NUMBER	REV
NV	C12 OF C16	1

MATCH TO SHEET #C16

MATCH TO SHEET #C11





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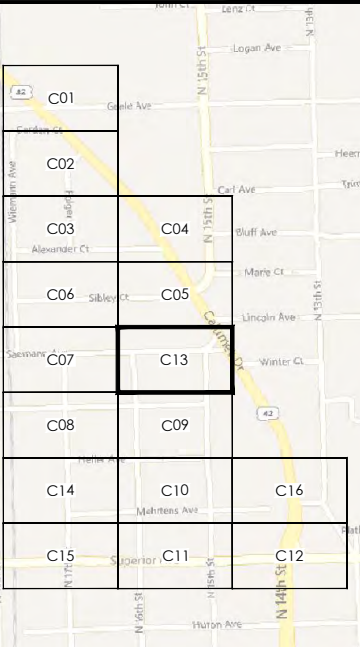
Diggers Hotline, Inc.  
811 or 1-800-242-8511

LEGEND

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- SPLICECASE
- SPLICE A4
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- SPLICE C12

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CONSTRUCTION DRAWING



PREPARED FOR:



T: (207) 591-6427 F: (207) 772-3427  
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REVISIONS

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SCALE: 1" = 50'

DRAFTED BY:	SHEET NUMBER	REV
NV	C13 OF C16	1





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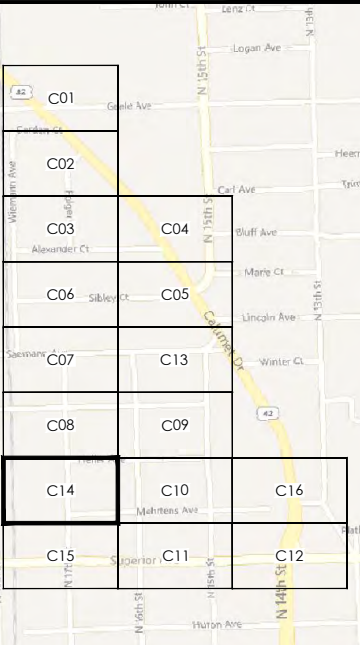
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CONSTRUCTION DRAWING



PREPARED FOR:



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REVISIONS

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SCALE: 1" = 50'

DRAFTED BY:	SHEET NUMBER	REV
NV	C14 OF C16	1

MATCH TO SHEET #C8

MATCH TO SHEET #C15

MATCH TO SHEET #C10



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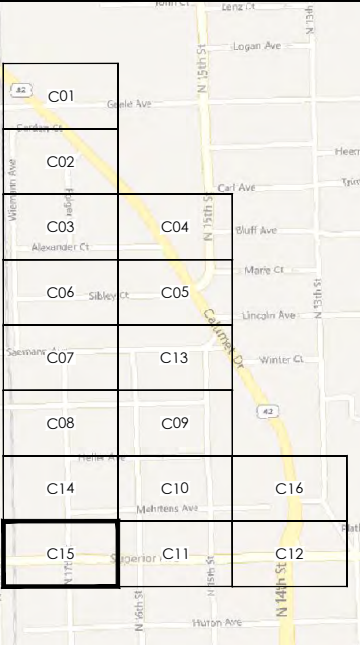
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LEGEND

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SHEBWI\_0930BA\_11

CONSTRUCTION DRAWING



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SCALE: 1" = 50'

DRAFTED BY:	SHEET NUMBER	REV
NV	C15 OF C16	1

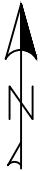
MATCH TO SHEET #C14



MATCH TO SHEET #C11



NOTES:  
1) RIGHT-OF-WAY ARE DEPICTED BASED ON FIELD OBSERVATION AND FROM DEEDS, MAPS, ASSESSOR RECORDS, & OTHER PUBLIC MUNICIPALITY RECORD ON FILE. IF FURTHER ACCURACY IS REQUIRED, LAND SURVEYS WILL BE NECESSARY.  
2) REMOVE & REPLACE ALL EXISTING MATERIAL TO BETTER OR EQUAL CONDITION & PER SHEBOYGAN REQUIREMENTS.  
3) UTILITIES SHOWN ARE NOT TO SCALE, CONTRACTOR TO CONTACT 811 TO VERIFY UTILITY LOCATION, DEPTH, & SIZE.  
4) DIRECTIONAL BORING MUST BE AT LEAST 5 FEET HORIZONTAL CLEARANCE FROM EXISTING UTILITIES & 24" VERTICAL CLEARANCE FROM EXISTING UTILITIES UNLESS OTHERWISE NOTED ON JURISDICTION PERMIT NOTES. (REFER TO SHEET B02 FOR PERMIT NOTES)  
5) FOR ACCESS POINT HANDHOLES LOCATED BETWEEN THE CURB AND SIDEWALK, CONTRACTOR TO BORE AND PLACE 1-1.25" CONDUIT AT 18" DEPTH BELOW GRADE UNDER SIDEWALK PANEL FROM ACCESS POINT AND CAP CONDUIT TO EDGE OF ROW.  
6) SEE SUPPLEMENTAL PERMIT CONDITIONS FOR ADDITIONAL CLARITY ON UTILITY SEPARATION/INSTALLATION.  
7) MAINTAIN 5' VERTICAL AND 3' HORIZONTAL DISTANCE FROM CITY UTILITIES.  
8) MAINTAIN 24" BELOW TREES AND 5' AWAY FROM TREES IF TRENCHING.  
9) 24" MIN BURIED DEPTH FOR NEW UG CONDUIT PLACEMENT.



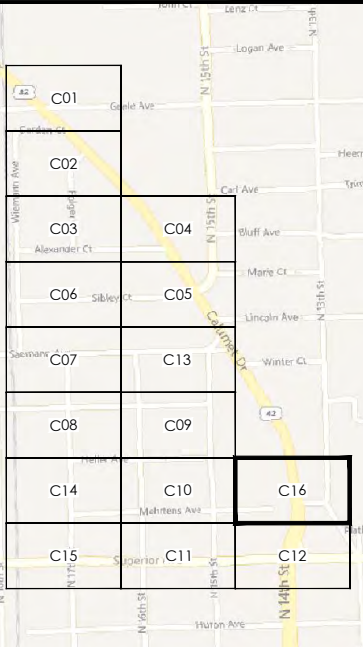
Diggers Hotline, Inc.  
811 or 1-800-242-8511

LEGEND

- PROPOSED PEDESTAL
- PROPOSED HANDHOLE
- BORE PIT
- EXISTING UTILITY POLE
- PROPOSED POLE RISER
- PROPOSED ANCHOR
- PROP DIRECTIONAL BORE (1 DUCT)
- PROP DIRECTIONAL BORE (2 DUCT)
- PROPOSED DIRECT BURY
- PROPOSED AERIAL
- PROPOSED OVERHEAD GUY
- OPTI-TAP/SPLITTER FIBER DROP
- FUTURE SINGLE SERVICE FIBER DROP
- RIGHT OF WAY
- UTILITY EASEMENT
- PROPERTY LINE
- GAS LINE
- WATER MAIN
- SEWER
- STORM DRAIN
- POWER LINE
- GAS STRUCTURE
- WATER STRUCTURE
- SANITARY STRUCTURE
- SPLICECASE
- SPLICE A4
- SPLICE B8G
- SPLICE C12
- DRAINAGE STRUCTURE
- ELECTRIC STRUCTURE

SHEBWI\_0930BA\_11

CONSTRUCTION DRAWING



PREPARED FOR:



T: (207) 591-6427 F: (207) 772-3427  
info@tilsontech.com

REVISIONS

DATE	DESCRIPTION	INITIAL
12/29/22	INITIAL SUBMISSION	NV
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SCALE: 1" = 50'

DRAFTED BY:	SHEET NUMBER	REV
NV	C16 OF C16	1

MATCH TO SHEET #C10

MATCH TO SHEET #C5

MATCH TO SHEET #C12



# TRAFFIC CONTROL APPENDIX

**DFN NAME: SHEBWI\_0930BA\_11**

PROJECT NAME: SHEBOYGAN, WI FTTX BUILD  
SHEBOYGAN, WI





HALF-ROAD CLOSURE LOW & MODERATE VOLUME



Diggers Hotline, Inc.  
811 or 1-800-242-8511

LEGEND

- PROPOSED PEDESTAL
- PROPOSED HANDHOLE
- BORE PIT
- EXISTING UTILITY POLE
- PROPOSED POLE RISER
- PROPOSED ANCHOR
- PROP DIRECTIONAL BORE (1 DUCT)
- PROP DIRECTIONAL BORE (2 DUCT)
- PROPOSED DIRECT BURY
- PROPOSED AERIAL
- PROPOSED OVERHEAD GUY
- OPTI-TAP/SPLICER FIBER DROP
- FUTURE SINGLE SERVICE FIBER DROP
- R/W
- UE
- P/L
- G
- W
- S
- SD
- E
- GAS STRUCTURE
- DRAINAGE STRUCTURE
- WATER STRUCTURE
- ELECTRIC STRUCTURE
- SANITARY STRUCTURE
- SPLICECASE
- SPLICE A4
- SPLICE B8G
- SPLICE C12

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CONSTRUCTION DRAWING

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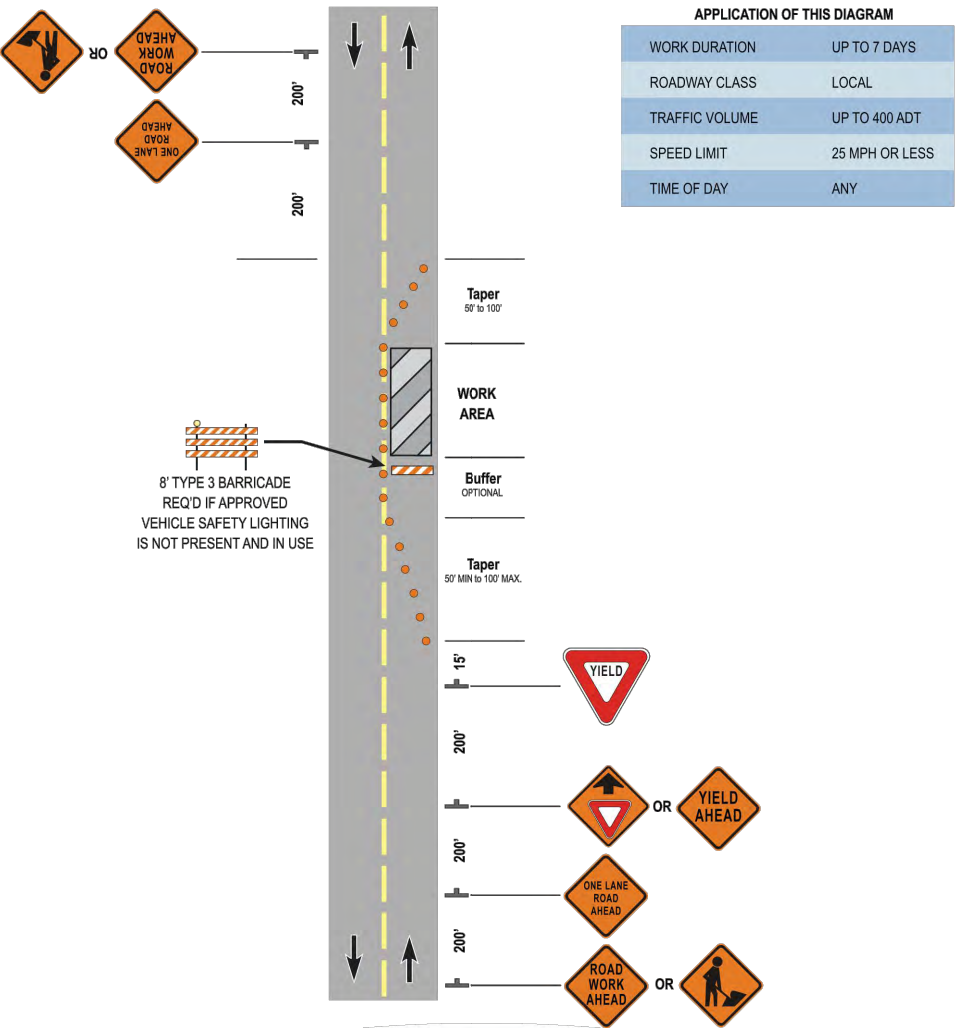
DATE	DESCRIPTION	INITIAL
12/29/22	INITIAL SUBMISSION	NV
01/12/23	REV 1	NV
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SCALE: 1" = 50'

DRAFTED BY:	SHEET NUMBER	REV
NV	E02 OF E08	1

Half-Road Closure  
on Road with Low Volume

Intermediate-Term Stationary Operation



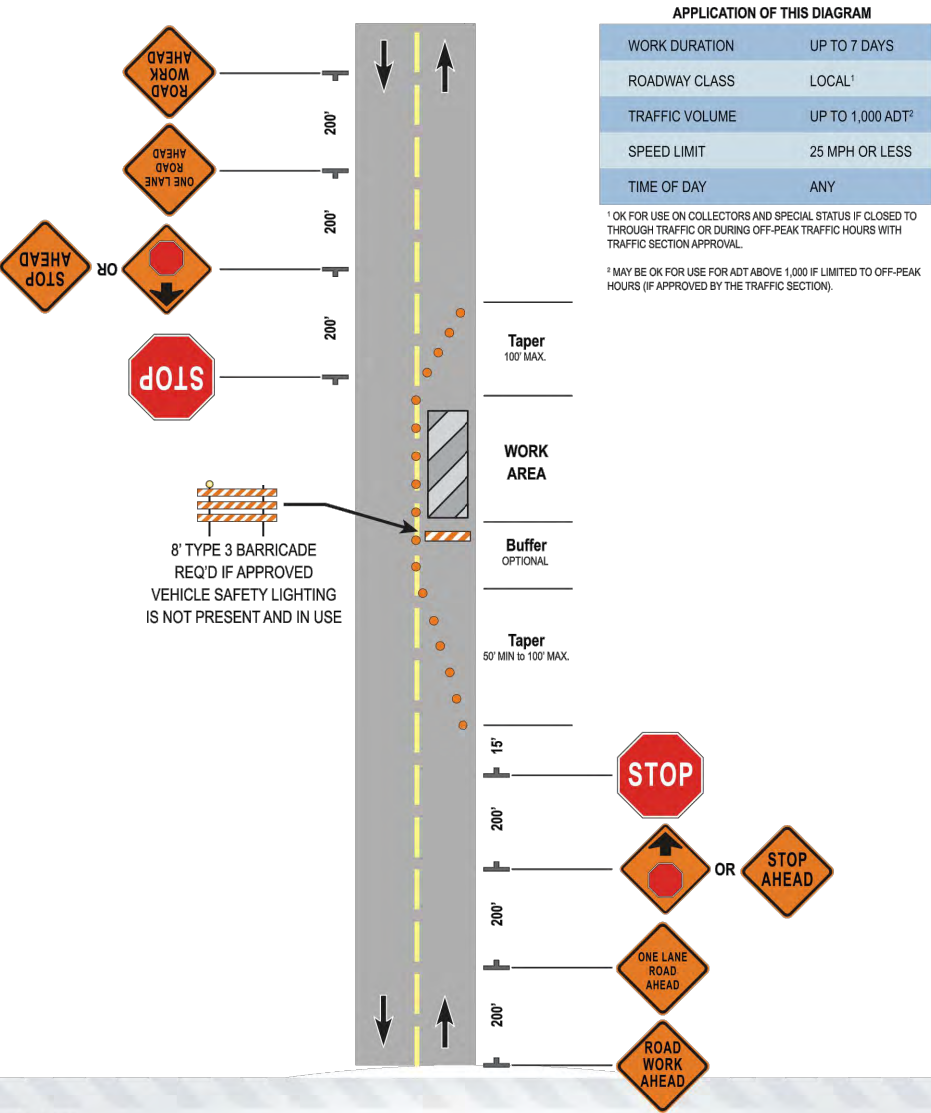
Notes:

1. This layout may be used when volumes are low, work areas are short, sight distance is good, and traffic can easily see the roadway beyond. It shall not be used on designated ARTERIAL, COLLECTOR, SPECIAL STATUS or CBD roadways.
2. The YIELD sign shall only be used with permission of the Traffic Section.
3. Where traffic does not self-regulate effectively, one or two flaggers, or STOP signs for each direction near the beginning of the tapers may be used with required advance warning signs as described on following pages.

17

Half-Road Closure  
on 2-Lane Road with Moderate Volume

Intermediate-Term Stationary Operation



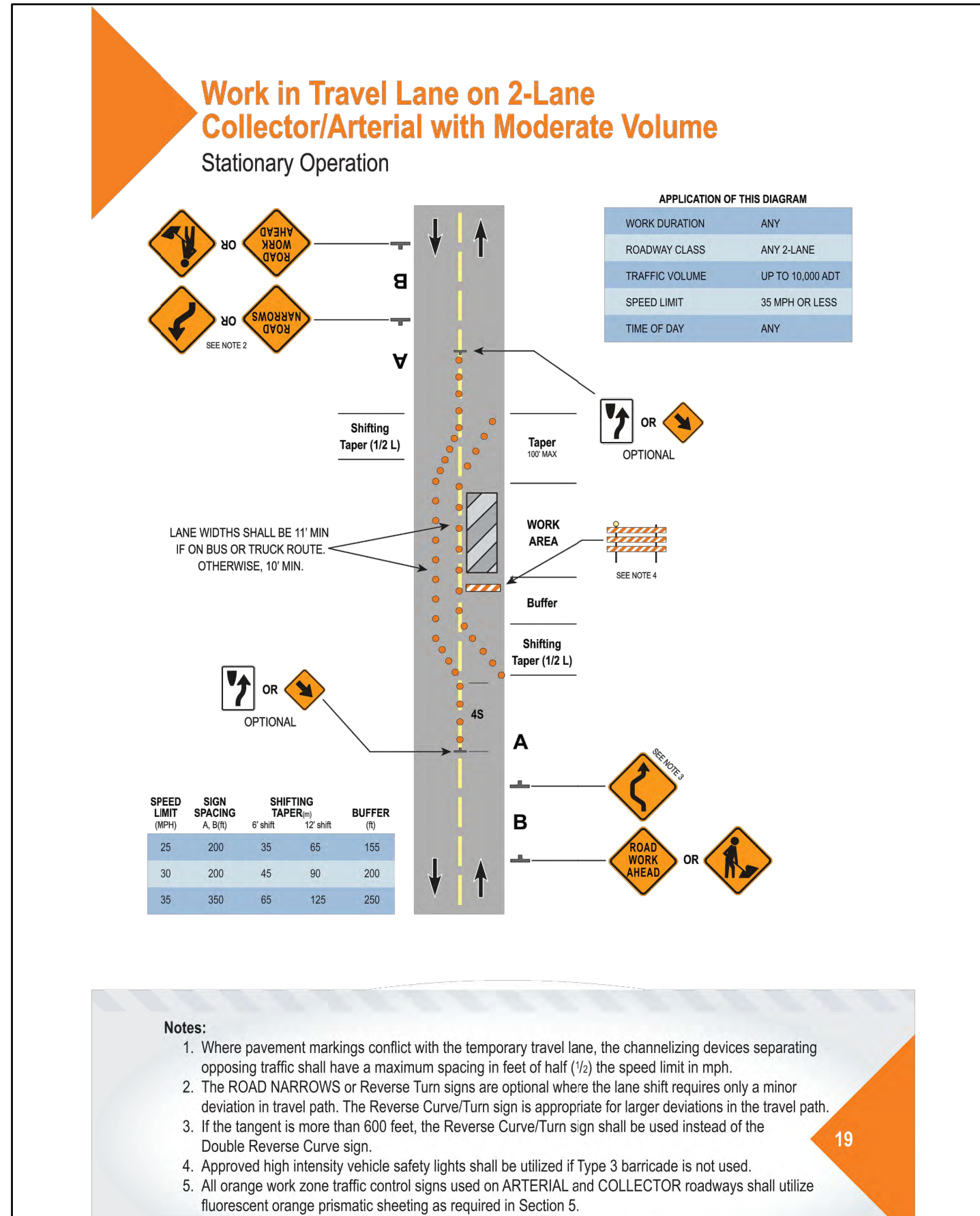
Notes:

1. This layout may be used when volumes are less than 1,000 ADT, work areas are short, sight distance is good, and traffic can easily see the roadway beyond. It shall not be used on designated ARTERIAL roadways.
2. STOP signs shall only be used with permission of the Traffic Section.
3. Where traffic does not self-regulate effectively, one or two flaggers may be used with required advance warning signs as described on following pages.
4. Approved high intensity vehicle safety lights shall be utilized if Type 3 barricade is not used.

18
















































## 2 - LANE COLLECTOR / ARTERIAL MODERATE VOLUME



**Diggers Hotline, Inc.**

811 or 1-800-242-8511

## LEGEND

	PROPOSED PEDESTAL		SPLICE CASE
	PROPOSED HANDHOLE		SPLICE A4
	BORE PIT		SPLICE B8G
	EXISTING UTILITY POLE		SPLICE C12
	PROPOSED POLE RISER		
	PROPOSED ANCHOR		
	DB		PROP DIRECTIONAL BORE (1 DUCT)
	DB		PROP DIRECTIONAL BORE (2 DUCT)
			PROPOSED DIRECT BURY
	A		PROPOSED AERIAL
			PROPOSED OVERHEAD GUY
			OPTI-TAP/SPLITTER FIBER DROP
			FUTURE SINGLE SERVICE FIBER DROP
	R/W		RIGHT OF WAY
	UE		UTILITY EASEMENT
	P/L		PROPERTY LINE
	G		GAS LINE
	W		WATER MAIN
	S		SEWER
	SD		STORM DRAIN
	E		POWER LINE
	GAS STRUCTURE		DRAINAGE STRUCTURE
	WATER STRUCTURE		ELECTRIC STRUCTURE
	SANITARY STRUCTURE		

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000 000 000 000	000 000 000 000	000 000 000 000

SCALE: 1" = 50'

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NV	E03 OF E08	1

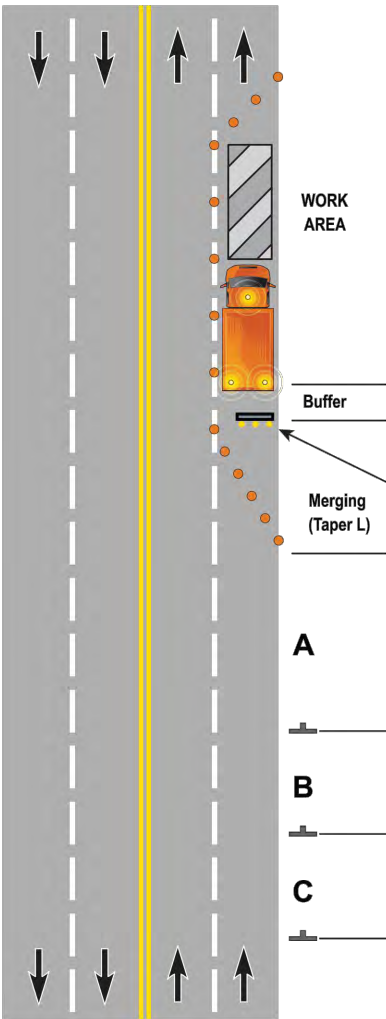


4 - LANE COLLECTOR / ARTERIAL MODERATE VOLUME



Work in Travel Lane on 4-Lane Collector/  
Arterial/Special Status

Intermediate/Long-Term Stationary Operation



APPLICATION OF THIS DIAGRAM

WORK DURATION	ANY
ROADWAY CLASS	ANY 4-LANE
TRAFFIC VOLUME	ANY
SPEED LIMIT	45 MPH OR LESS
TIME OF DAY	ANY

SPEED LIMIT (MPH)	SIGN SPACING A, B, C (ft)	MERGING TAPER (ft) FOR 12' LANE	BUFFER (ft)
25	200	180	155
30	200	180	200
35	350	245	250
40	350	320	305
45	500	540	360

REQUIRED IF:

- SPEED LIMIT IS 35 MPH OR GREATER, OR
- WORK OCCURS DURING PEAK TRAFFIC HOURS, AT NIGHT, OR
- UNDER SPECIAL CIRCUMSTANCES (SEE SECTION 5)

OR

REQUIRED IF:

- ARROW BOARD NOT PRESENT



Notes:

- When a side road intersects the roadway within the work zone, additional devices shall be erected to channelize traffic from/to the side road and, as a minimum, a ROAD WORK AHEAD sign shall be placed on each side street approach. Turn prohibition signs may also be required by the Traffic Section.
- This layout can be reversed for left lane closures. In this case, channelizing devices are required along the centerline of the roadway.
- If a raised median is present, additional advance warning signage may be required.
- All orange work zone traffic control signs used on ARTERIAL and COLLECTOR roadways shall utilize fluorescent orange prismatic sheeting as required in Section 5.
- If cones are used as channelizing devices, they shall be a minimum of 28 inches in height.

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811 or 1-800-242-8511

LEGEND

PROPOSED PEDESTAL

PROPOSED HANDHOLE

BORE PIT

EXISTING UTILITY POLE

PROPOSED POLE RISER

PROPOSED ANCHOR

PROP DIRECTIONAL BORE (1 DUCT)

PROP DIRECTIONAL BORE (2 DUCT)

PROPOSED DIRECT BURY

PROPOSED AERIAL

PROPOSED OVERHEAD GUY

OPTI-TAP/SPLITTER FIBER DROP

FUTURE SINGLE SERVICE FIBER DROP

R/W

UE

P/L

G

W

S

SD

E

GAS STRUCTURE

WATER STRUCTURE

SANITARY STRUCTURE

SPLICE CASE

SPLICE A4

SPLICE B8G

SPLICE C12

DRAINAGE STRUCTURE

ELECTRIC STRUCTURE

SHEBWI\_0930BA\_11

CONSTRUCTION DRAWING

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SCALE: 1" = 50'

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NV	E04 OF E08	1



## Half Road Closure on Multi-Lane Roadway



A  
T  
B  
T  
C  
T

**Merging  
Taper (L)**

**Buffer**

---

**Shifting Taper**  
(1/2 L)

SPEED LIMIT (MPH)	SIGN SPACING (A.B. C/D)	MERGING TAPER (ft) FOR 1/2 LANE	SHIFTING TAPER (ft) FOR 1/2 LANE	BUFFER (ft)
25	200	125	65	155
30	200	180	90	200
35	350	245	125	250
40	350	320	160	305
45	500	540	270	360

**WORK  
AREA**

**Buffer**

**Shifting Tape**  
(1/2 L min.)

(1/2 L min.)

Merging  
(Taper 1

A

B

**C**

WORK DURATION	ANY
ROADWAY CLASS	ANY 4-LANE
TRAFFIC VOLUME	ANY
SPEED LIMIT	45 MPH OR LESS
TIME OF DAY	ANY

**REQUIRED IF:**

- SPEED LIMIT IS 35 MPH OR GREATER, OR
- WORK OCCURS DURING PEAK TRAFFIC HOURS, AT NIGHT, OR
- UNDER SPECIAL CIRCUMSTANCES (SEE SECTION 5)

**REQUIRED IF:**

- ARROW BOARD NOT PRESENT

**REQUIRED IF:**

- SPEED LIMIT IS 35 MPH OR GREATER, OR
- WORK OCCURS DURING PEAK TRAFFIC HOURS, AT NIGHT, OR
- UNDER SPECIAL CIRCUMSTANCES (SEE SECTION 5)

**REQUIRED IF:**  
• ARROW BOARD NOT PRESENT

**Notes:**














































1. Items noted as "Optional" may be required by the Traffic Section based on special circumstances.
2. When a side road intersects the roadway within the work zone, additional devices shall be erected to channelize traffic from/to the side road and, as a minimum, a ROAD WORK AHEAD sign shall be placed on each side street approach. Turn prohibition signs may also be required by the Traffic Section.
3. If a raised median is present, additional advance warning signage may be required.
4. All orange work zone traffic control signs used on ARTERIAL and COLLECTOR roadways shall utilize fluorescent orange prismatic sheeting as required in Section 5.



**Diggers Hotline, Inc.**

811 or 1-800-242-8511

## LEGEND

	PROPOSED PEDESTAL		SPLICECASE
	PROPOSED HANDHOLE		SPLICE A4
	BORE PIT		SPLICE B8G
	EXISTING UTILITY POLE		SPLICE C12
	EXISTING UTILITY POLE RISER		
	PROPOSED ANCHOR		
	DB		DB
PROP DIRECTIONAL BORE (1 DUCT)			
	DB		DB
PROP DIRECTIONAL BORE (2 DUCT)			
			
PROPOSED DIRECT BURY			
	A		A
PROPOSED AERIAL			
			
PROPOSED OVERHEAD GUY			
			
OPTI-TAP/SPLITER FIBER DROP			
			
FUTURE SINGLE SERVICE FIBER DROP			
			
R/W			RIGHT OF WAY
			
UE			UTILITY EASEMENT
			
P/L			PROPERTY LINE
			
G			GAS LINE
			
W			WATER MAIN
			
S			SEWER
			
SD			STORM DRAIN
			
E			POWER LINE
			
GAS STRUCTURE		DRAINAGE STRUCTURE	
			
WATER STRUCTURE		ELECTRIC STRUCTURE	
			
SANITARY STRUCTURE			

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## CONSTRUCTION DRAWING

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**SCALE: 1" = 50'**

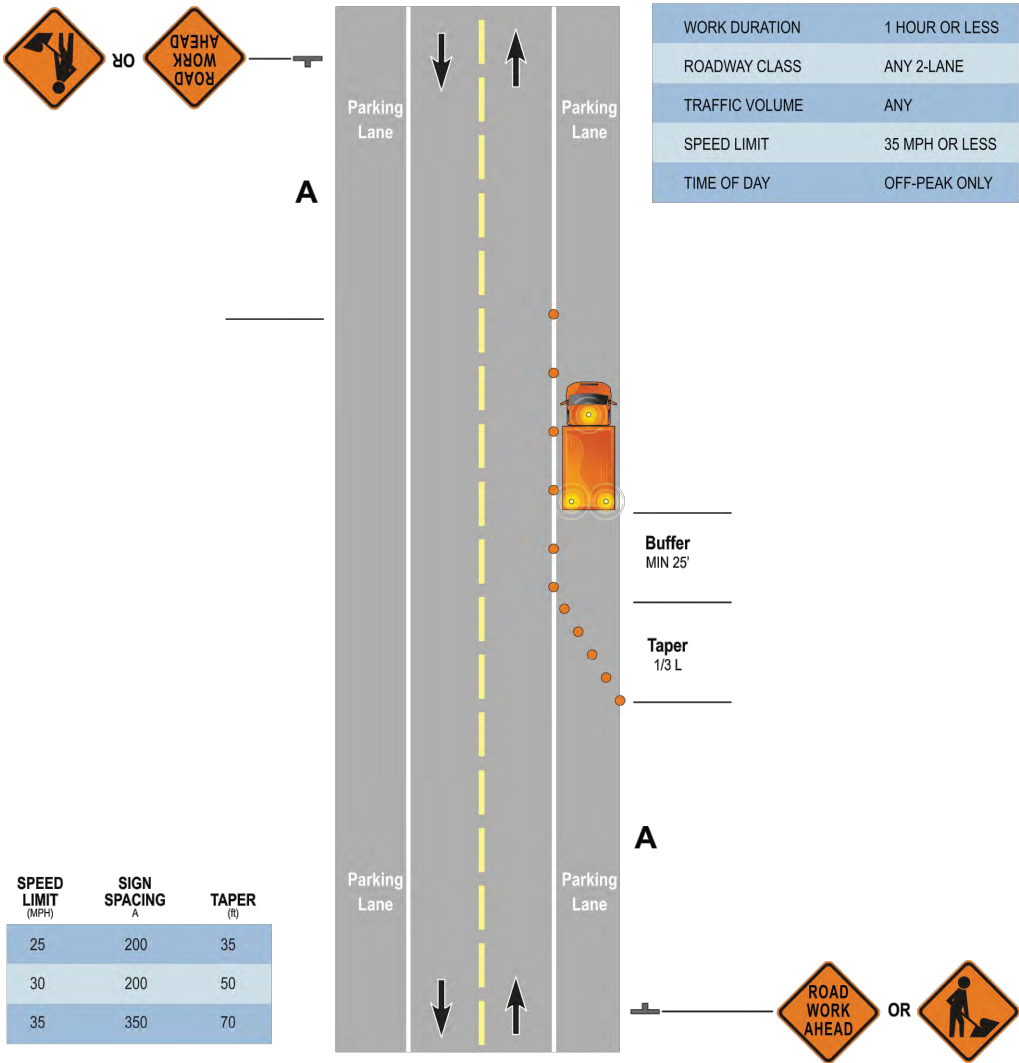
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NV	E05 OF E08	1



WORK ON PARKING LANE

Work on Parking Lane

Intermediate Stationary Operation



Notes:

1. If encroachment into the adjacent traffic lane is permitted by the Traffic Section, a 10-foot minimum clear lane width shall be maintained (11 feet in the case of truck/bus routes).
2. If there is encroachment into the traffic lane, a ROAD NARROWS sign may also be required.
3. For short duration work (60 minutes or less), the channelizing devices may be omitted if a vehicle with approved high intensity vehicle safety lighting is used.
4. When the work area is at least 2 feet from the traffic lane on roads with low volumes and speeds of 35 mph or less, the advance warning sign for the opposite direction may be omitted.
5. All orange work zone traffic control signs used on ARTERIAL roadways shall utilize fluorescent orange prismatic sheeting as required in Section 5.



Diggers Hotline, Inc.  
811 or 1-800-242-8511

LEGEND

	PROPOSED PEDESTAL		SPLICE CASE
	PROPOSED HANDHOLE		SPLICE A4
	BORE PIT		SPLICE B8G
	EXISTING UTILITY POLE		SPLICE C12
	PROPOSED POLE RISER		
	PROPOSED ANCHOR		
	PROP DIRECTIONAL BORE (1 DUCT)		
	PROP DIRECTIONAL BORE (2 DUCT)		
	PROPOSED DIRECT BURY		
	PROPOSED AERIAL		
	PROPOSED OVERHEAD GUY		
	OPTI-TAP/SPLITER FIBER DROP		
	FUTURE SINGLE SERVICE FIBER DROP		
	RIGHT OF WAY		
	UTILITY EASEMENT		
	PROPERTY LINE		
	GAS LINE		
	WATER MAIN		
	SEWER		
	STORM DRAIN		
	POWER LINE		
	GAS STRUCTURE		DRAINAGE STRUCTURE
	WATER STRUCTURE		ELECTRIC STRUCTURE
	SANITARY STRUCTURE		

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12/29/22	INITIAL SUBMISSION	NV
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SCALE: 1" = 50'

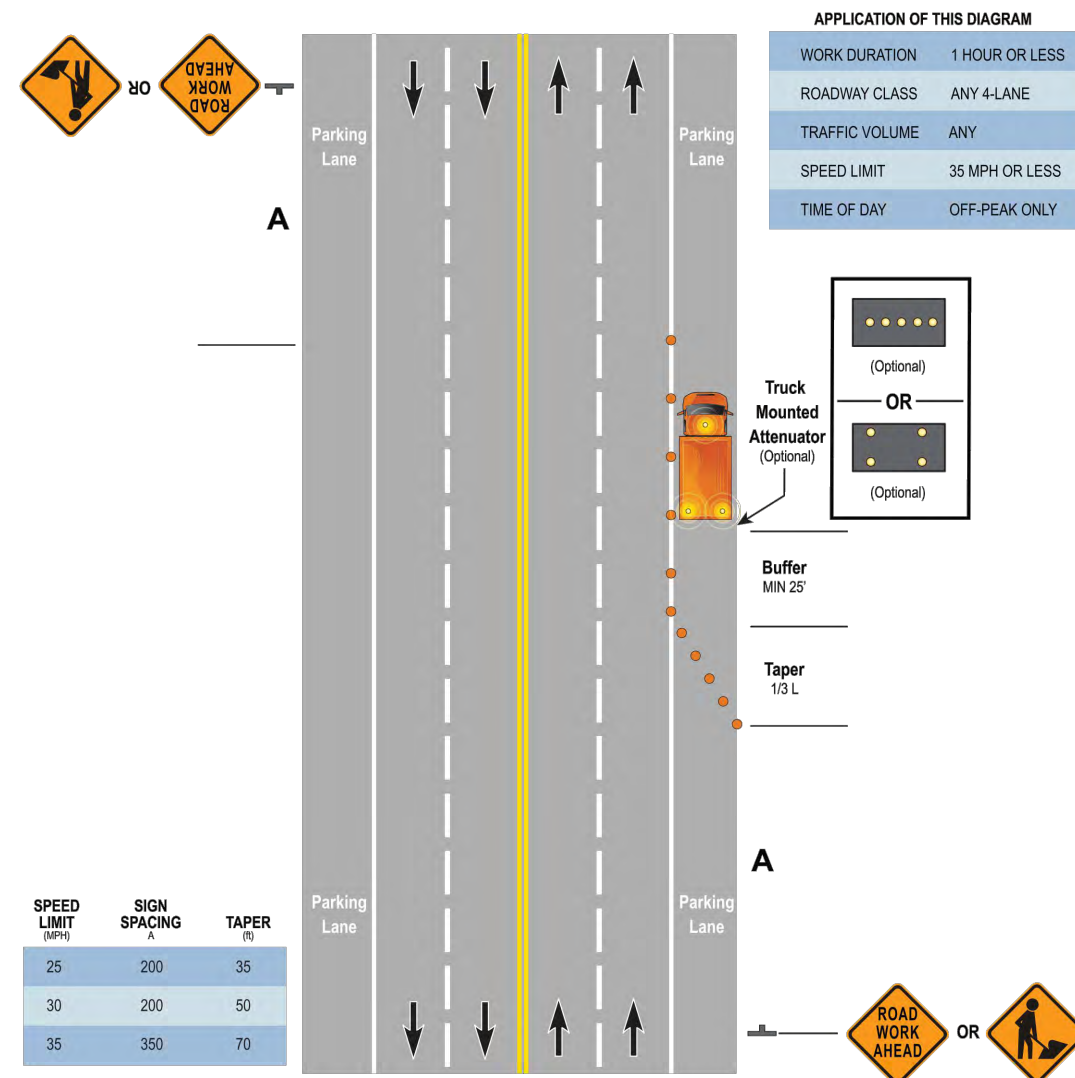
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NV	E06 OF E08	1



# PARKING LANE CLOSURE ON 4-LANE ROAD

## Parking Lane Closure on 4-Lane Road

### Intermediate Stationary Operation



**Notes:**

1. If encroachment into the adjacent traffic lane is permitted by the Traffic Section, a 10-foot minimum clear lane width shall be maintained (11 feet in the case of truck/bus routes).
2. For short duration work (60 minutes or less), the channelizing devices may be omitted if a vehicle with approved high intensity vehicle safety lighting is used.
3. All orange work zone traffic control signs used on ARTERIAL roadways shall utilize fluorescent orange prismatic sheeting as required in Section 5.





































22



**Diggers Hotline, Inc.**

811 or 1-800-242-8511

## LEGEND

	PROPOSED PEDESTAL		SPLICE CASE
	PROPOSED HANDHOLE		SPLICE A4
	BORE PIT		SPLICE B8G
	EXISTING UTILITY POLE		SPLICE C12
	PROPOSED POLE RISER		
	PROPOSED ANCHOR		
	DB		PROP DIRECTIONAL BORE (1 DUCT)
	DB		PROP DIRECTIONAL BORE (2 DUCT)
	DB		PROPOSED DIRECT BURY
	A		PROPOSED AERIAL
			PROPOSED OVERHEAD GUY
			OPTI-TAP/SPLITER FIBER DROP
			FUTURE SINGLE SERVICE FIBER DROP
	R/W		RIGHT OF WAY
	UE		UTILITY EASEMENT
	P/L		PROPERTY LINE
	G		GAS LINE
	W		WATER MAIN
	S		SEWER
	SD		STORM DRAIN
	E		POWER LINE
	GAS STRUCTURE		DRAINAGE STRUCTURE
	WATER STRUCTURE		ELECTRIC STRUCTURE
	SANITARY STRUCTURE		

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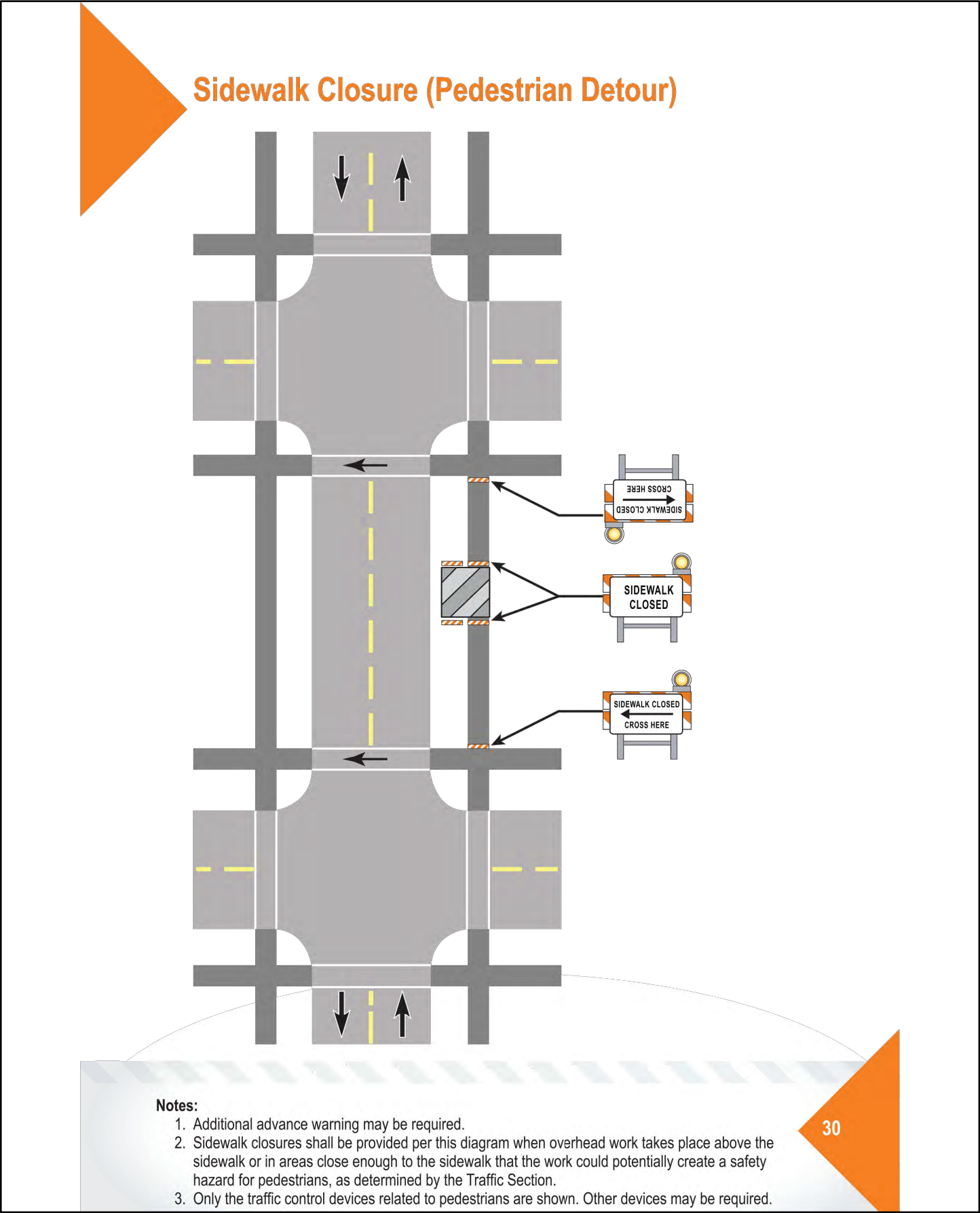
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01/12/23	REV 1	NV
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SCALE: 1" = 50'

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NV	E07 OF E08	1



SIDEWALK CLOSURE



Diggers Hotline, Inc.  
811 or 1-800-242-8511

LEGEND

- |                                  |                                |
|----------------------------------|--------------------------------|
| PROPOSED PEDESTAL                | SPLICECASE                     |
| PROPOSED HANDHOLE                | SPLICE A4                      |
| BORE PIT                         | SPLICE B8G                     |
| EXISTING UTILITY POLE            | SPLICE C12                     |
| PROPOSED POLE RISER              |                                |
| PROPOSED ANCHOR                  |                                |
| DB DB                            | PROP DIRECTIONAL BORE (1 DUCT) |
| DB DB                            | PROP DIRECTIONAL BORE (2 DUCT) |
| DB DB                            | PROPOSED DIRECT BURY           |
| A A                              | PROPOSED AERIAL                |
| A A                              | PROPOSED OVERHEAD GUY          |
| OPTI-TAP/SPLITTER FIBER DROP     |                                |
| FUTURE SINGLE SERVICE FIBER DROP |                                |
| R/W                              | RIGHT OF WAY                   |
| UE                               | UTILITY EASEMENT               |
| P/L                              | PROPERTY LINE                  |
| G                                | GAS LINE                       |
| W                                | WATER MAIN                     |
| S                                | SEWER                          |
| SD                               | STORM DRAIN                    |
| E                                | POWER LINE                     |
| GAS STRUCTURE                    | DRAINAGE STRUCTURE             |
| WATER STRUCTURE                  | ELECTRIC STRUCTURE             |
| SANITARY STRUCTURE               |                                |

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SCALE: 1" = 50'

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