





PROJECT ID #06-434 515 SECOND STREET & 106 CAMERON AVENUE ~ FIRST SUPPLY CITY OF LA CROSSE ~ LA CROSSE COUNTY ~ WISCONSIN

CONSTRUCTION CONTRACTOR MUST ADHERE TO ALL PERMIT PROVISIONS, NOTES, & REQUIREMENTS AS LISTED ON THE APPROVED PERMIT(S).

CONSTRUCTION CONTRACTOR IS RESPONSIBLE FOR ALL PRE AND POST CONSTRUCTION NOTIFICATIONS.

A COPY OF THE PERMIT(S) MUST BE ON THE PROJECT SITE AT ALL TIMES.

UNIT SUMMARY

CONTRACTOR TO COMPLETE

| DESCRIPTION | <u>UNIT</u> | UNIT TYPE | QUANTITY |
|--|-----------------|------------------------|-----------------|
| | | | |
| DAYLIGHT EXISTING UTILITIES | BM75 | $\mathbf{E}\mathbf{A}$ | 17 |
| BORE TO PLACE TWO (2) CONVENTIONAL DUCTS 2.00" OR LESS | BMDB(2) | FT | 1,500' |
| TRENCH TO PLACE TWO (2) CONVENTIONAL DUCTS 2.00" OR LESS | BMT(2) | FT | 41' |
| PLACE ONE (1) 24" x 36" x 36" COMPOSITE HAND HOLE | UH36 | EA | 9 |
| PLACE ONE (1) 30" x 48" x 36" COMPOSITE HAND HOLE | UH48 | EA | 2 |
| REMOVE HAND HOLE | XXUH | EA | 1 |
| SIDEWALK REMOVAL, REPLACEMENT, AND RESTORATION | BM74 | SQ FT | 1,120 |
| ACCESS POINT INTERNAL MOUNT TEST STATION | BM2B(TS) | EA | 4 |
| ABOVE GROUND BUILDING ENTRANCE | BM22 | EA | 2 |
| ENTER EXISTING HAND HOLE WITH DUCT | WUH | EA | 6 |
| REARRANGE EXISTING UNDERGROUND CONDUIT | WUD | EA | 10 |
| PULLING 48ct CONVENTIONAL FIBER | UFOP(48) | FT | 3,146' |
| BLOWING 48ct CONVENTIONAL FIBER | UFOB(48) | FT | 2,203' |
| PULLING 6ct PRECONNECTORIZED FIBER | UFOP(6) | FT | 400' |

WIN Project Engineer:

Ken Whiting

Office: (715) 858-3172 Cell: (920) 376-2996

ken.whiting@wintechnology.com

WIN Project Manager:

John Louis

Office: (715) 838-4012 Cell: (715) 864-2918

john.louis@wintechnology.com

Construction Contractor Information

Name:

Phone:
Foreman:

<u>Cell:</u>

Address:

PERMITS LIST:

• CITY OF LA CROSSE

AS STAKED

AS BUILT DATE:

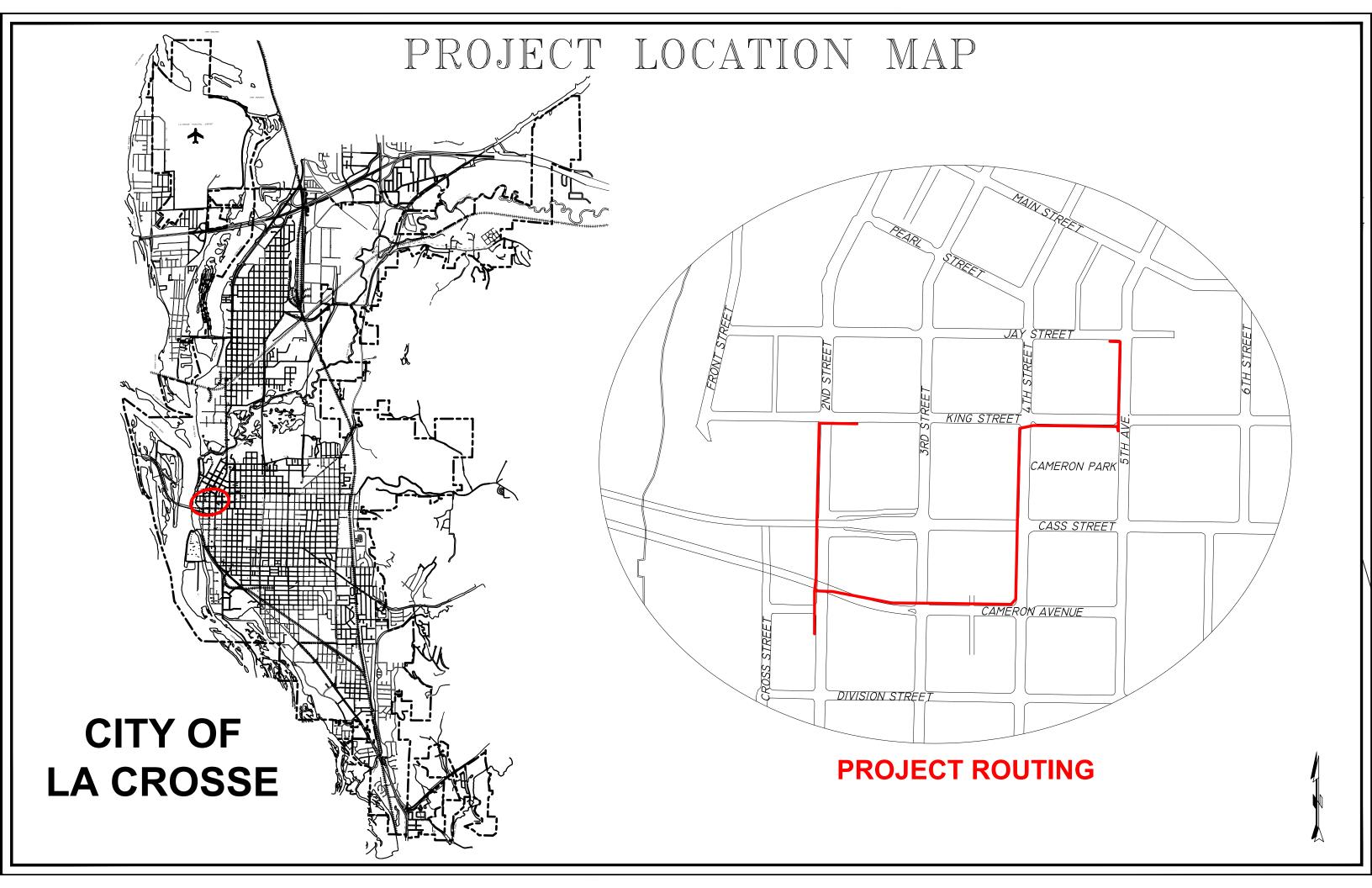
SOC CODE

i.iodis@wiritechnology.com

GENERAL CONSTRUCTION NOTES

- 1) State Law requires excavators to notify the One-Call System a minimum of three (3) business days prior to all excavations (excluding Saturdays, Sundays, and legal Holidays). Hand dig with care within the 18" safety zone when exposing underground utilities. Caution One Call may not mark all private lines.
- 2) Underground utilities have been plotted from available records and field observations but are not necessarily exact. It is the contractors responsibility to field locate all underground obstructions and utilities prior to construction. Complete repair of any and all damages incurred shall be at the expense of the construction contractor. Fiber placement subject to change upon field locate completion.
- 3) Coordinate all construction activities with WIN Project Engineer prior to construction.
- 4) Contractor is responsible for any erosion control, which includes submitting erosion plans, related to this project, should it become necessary.
- 5) Construction contractor shall provide all information for as-built drawings, including but not limited to: Fiber sequential's at hand hole walls and end of fiber; Depths of fiber at a minimum of 200' intervals along with centerline of all hard surface crossings, ie: roads, alleys, drives, waterways pipelines, railroads; Actual GPS location of hand holes; Actual running line from right-of-way, back of curb, edge of pavement or other known landmarks shown on sheets; Actual location of warning markers; and any other information required to produce a accurate and permanent record of the project.
- 6) The top of all hand holes set shall match final grade.
- 7) The contractor shall comply with all Wisconsin Independent Network policies and procedures and all requirements from local permitting authorities. The various permits obtained for the project are on file in the office of the Wisconsin Independent Network engineer.
- 8) Miscellaneous structures and obstructions such as sign posts; mail boxes; meter boxes; or other obstructions shall be avoided or removed and reinstalled to original or better condition.
- 9) The contractor shall be responsible, at all times; for the maintenance of streets and other utilities affected by construction operations debris shall not be permitted to accumulate and all premises shall be maintained in a neat and workmanlike condition.
- 10) The contractor shall take adequate precautions to protect existing facilities, sidewalks, curbs, pavements, utilities, foliage, and adjoining property and structures outside of right-of-way; and to avoid damage thereto.

- 11) The following special provisions shall apply to traffic regulation during the extent of this project:
- a. There shall be, at all times, adequate vehicle and pedestrian access for ingress and egress for the properties adjacent to the project.
- b. During non-working hours, the contractor shall keep the existing traffic lanes clear from interference including all approaches and intersections.
- c. If lane blockage is unavoidable, the contractor shall notify the traffic engineering department, police department, fire department, ambulance services, school bus garages, and other agency operations as appropriate so these agencies may re-route their vehicles around the construction zone(s).
- d. Contractor is responsible to adhere to the Wisconsin DOT manual on traffic control along with submitting traffic plans if required by permitting authority.
- 12) If required, trenches in paved areas shall be saw-cut to the full depth of surfacing or as required by the permitting authority. Paved surfaces shall be repaired in accordance with the permitting authority's specifications.
- 13) The contractor shall comply with all current and applicable Occupational Safety and Health Administration (OSHA), federal, state, and local rules and regulations governing the safety of employees and material during excavation, trenching, ditching, and installation and backfilling operations on this project.
- 14) No trench or excavation site shall be left open overnight or unattended.
- 15) Right-of-way restoration and street and sidewalk repair/replacement shall be in compliance with the local permitting authority.
- 16) All fiber cable minimum depth must be 36". 48" minimum depth under roadways and waterways. See typical roadway and waterway crossing details.
- 17) Inner ducts occupied by cable shall be sealed at termination points using rubber plugs and compression bands. Foam sealant will not be used.
- 18) Brushing and trimming as-required. Brush, branches, and refuse from clearing operations shall, without delay, be removed from the vicinity of the right-of-way.
- 19) Construction contractor(s) shall have a copy of the permit(s) on-site and shall be available for inspection immediately upon request by the permitting authority or permitting authority representative.
- 20) No excavation, digging, tunneling, trenching, boring, plowing, installation of facilities, equipment or improvements above, on or beneath the surface of any right-of-way may begin without a signed permit from the governing permitting authority.



TYPICAL DETAIL DRAWINGS

DITCH GRAVEL SHOULDER ROADWAY PAVEMENT

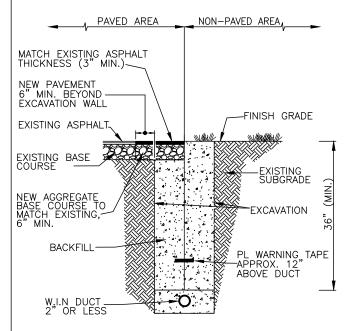
TYPICAL ROADWAY CROSSING

ALL DIMENSIONS SHOWN ARE MINIMUM DEPTHS

PROPOSED FACILITIES PLACEMENT SHALL CROSS ALL EXISTING STREETS AT 48" MINIMUM DEPTH

PERMITTING AUTHORITIES MAY REQUIRE GREATER THAN 48" MINIMUM DEPTH ROAD CROSSINGS

TYPICAL TRENCH DETAIL BMT1 (ONE DUCT - 2" OR LESS) 1 DUCT HORIZONTALLY BY 1 DUCT VERTICALLY



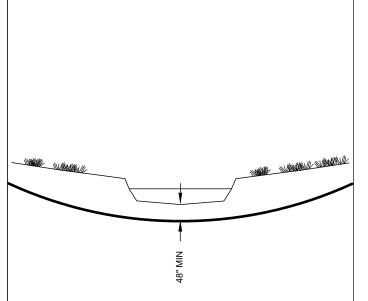
MAINTAIN MINIMUM HORIZONTAL AND VERTICAL SEPARATION

OF EXISTING UTILITIES: REVIEW PERMITTING AUTHORITIES

SPECIFICATIONS AND DETAILS FOR SEPARATION REQUIREMENTS

NOT TO SCALE

TYPICAL WATERWAY CROSSING

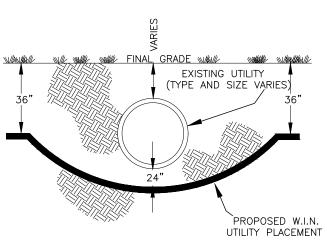


ALL DIMENSIONS SHOWN ARE MINIMUM DEPTHS

PROPOSED FACILITIES PLACEMENT SHALL CROSS ALL WATERWAYS AT 48" MINIMUM DEPTH FROM BASE OF WATERWAY

PERMITTING AUTHORITIES MAY REQUIRE GREATER THAN 48" MINIMUM DEPTH

TYPICAL UTILITY CROSSING



ALL DIMENSIONS SHOWN ARE MINIMUM DISTANCES

PROPOSED FACILITIES PLACEMENT SHALL CROSS ALL EXISTING UTILITIES WITH A 24" MINIMUM VERTICAL AND HORIZONTAL SEPARATION

FOREIGN UTILITY OWNERS AND/OR PERMITTING AUTHORITIES MAY REQUIRE GREATER THAN 24" SEPARATIONS

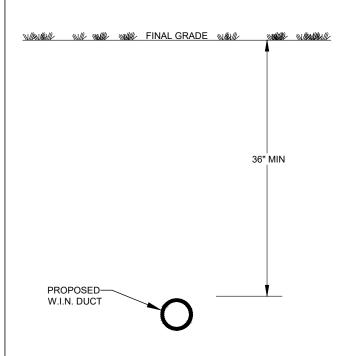
GREEN CAP

BLACK & WHITE CAP

8

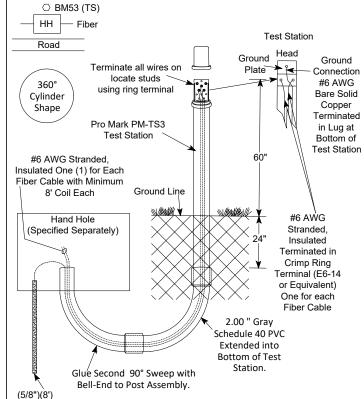
LL BEFORE YOU -866-206-202

TYPICAL BORE DETAIL



MAINTAIN MINIMUM HORIZONTAL AND VERTICAL SEPARATION OF EXISTING UTILITIES; REVIEW PERMITTING AUTHORITIES SPECIFICATIONS AND DETAILS FOR SEPARATION REQUIREMENTS NOT TO SCALE

TYPICAL WARNING SIGN MARKER POST



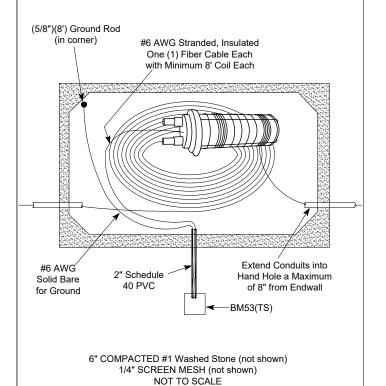
Ground Rod

-- NOTES --

1. Cap Colors:

- -- Black: Warning Post Only
- -- White: Hand Hole with Slack
 -- Green: Test Station at Splice Locations
- 2. Test Station to be Installed in Center of Long Side of Hand Hole Away from Roadway
- Test Station Assembly Unit includes: 84"
 Dome Pro Mark Marker Post with 5 Position
 Test Station; 5/8" x 8' Ground Rod; Ground
 Rod Clamp; 2 2.00" 90° Duct Sweeps;
 Isolation Lever.
- 4. Test Station Conductors:
 - -- Ground Rod to Locate Plate: #6 Bare Solid
 - -- Test Station to Hand Hole for Each Cable: #6 Stranded, Insulated
 - #6 Bare Solid Terminated in Lug at Top of Test Station for Ground
 Stranded #6 to be Terminated in Crimp Ring Terminal T&B E-6-14 or Equivalent
- BM53 Markers will require Post Anchor. Set BM53 Markers 18" Below Ground Line.

TYPICAL HANDHOLE DETAIL VIEW FROM TOP



BM53 - PRO MARK PM-303 DOME MARKER 72" BM53(TS) - PRO MARK PM-TS3 84" (3" TEST STATION WITH STANDARD 5 STAINLESS STEEL TERMINALS)

WIN, LLC

PROJECT #06-434

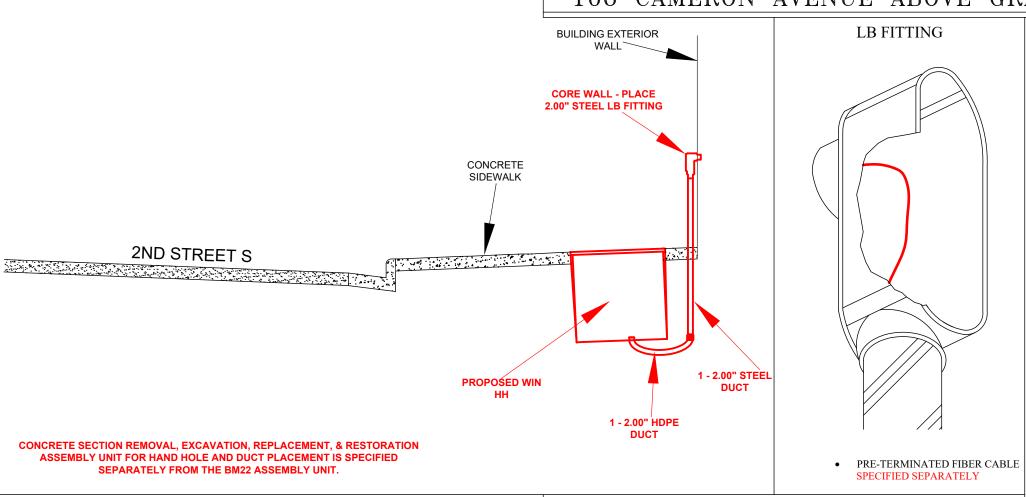
515 SECOND STREET & 106 CAMERON AVENUE - FIRST SUPPLY COMPANY CITY OF LA CROSSE, LA CROSSE COUNTY, WISCONSIN

ASSEMBLY UNIT TAB SHEET

| Sheet | Assembly Unit Description | | | | | | | | | | | | | | | Municipality | County | Fiber (48) | | |
|--------------------|---|--|--|--|--|--------------------------|---|--|------------------------------------|--|---|---------------------------------------|-------------------------------|--------------------------------|-------------------------------|---|-------------------|------------|--------------------------|------------------------|
| CONSTRUCTION SHEET | BM75 Daylight Existing Utilities in Roadway | BMDB(2) Boring Two (2) Conventional Ducts Two Inch (2") Diameter or Less | BMT(2) Thenching Two (2) Conventional Ducts Two Inch (2") Diameter or Less | UH36 24"X36"X36" Composite Hand Hole | UH48 30"X48"X36" Composite Hand Hole | XXUH Remove Hand Hole | BM74 Sidewalk Removal, Replacement, & Restoration | BM2B(TS) Internal Mount (Closure) Test Station | BM22 Above Grade Building Entrance | WUH Enter Existing Hand Hole with Duct | WUD Rearrange Existing Under Ground Conduit | UFOP(48) Pulling 48ct Fiber | UFOP(48) COIL Storage Coil | UFOB(48) Blowing 48ct Fiber | UFOB(48) COIL Storage Coil | UFOP(6) Pull 6ct Pre- Connectorized Fiber | CIIY OF LA CROSSE | LACROSSE | FIBER REEL Cumulative | FIBER REEL Order Total |
| 1 | | 145 | | | 1 | 1 | 148 | 1 | | | | 99 | | 220 | 75 | | 319 | 319 | 319 | |
| 2 | 2 | 176 | 14 | 1 | | | 252 | | | 1 | | 221 | | 336 | 160 | | 557 | 557 | 876 | |
| 3 | 3 | 252 | 8 | 1 | | | 180 | | | 1 | | 268 | | 412 | 160 | | 680 | 680 | 1556 | |
| 4 | 2 | 60 | 6 | - | | | 144 | | | 2 | | 299 | 10 | 240 | 180 | | 299 476 | 299 476 | 1855 2331 | |
| 5 | | 00 | 0 | 1 | | | 36 | | | | - | 236 493 | 170 | 240 | 160 | | 493 | - 1/ | 2824 | |
| 7 | 5 | 345 | | 1 | | | 72 | | | | 5 | 70 | 1/0 | 495 | 150 | | 565 | 493 565 | 3389 | |
| 8 | 2 | 343 | 6 | 1 | 1 | | 144 | 2 | 1 | 1 | | 584 | 235 | 79 | -0- | 200 | 663 | 663 | 4052 | |
| 9 | | | | 1 | | | 36 | | | | | 472 | 180 | | | | 472 | 472 | 4524 | |
| 10 | | | | | | | | | | | | 294 | 10 | | | | 294 | 294 | 4818 | |
| 11 | 3 | 179 | 7 | 2 | | | 108 | 1 | 1 | 1 | | 110 | | 421 | ² 35 | 200 | 531 | 531 | 5349 | |
| TOTALS | 17 | 1500 | 41 | 9 | 2 | 1 | 1120 | 4 | 2 | 6 | 10 | 3146 | 605 | 2203 | 960 | 400 | 5349 | 5349 | 5349 | 5,700' |

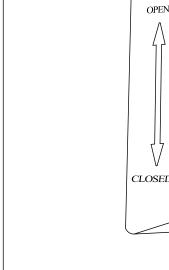
NOTE - STORAGE COIL FOOTAGE IS INCLUDED IN UFOP & UFOB ASSEMBLY UNITS

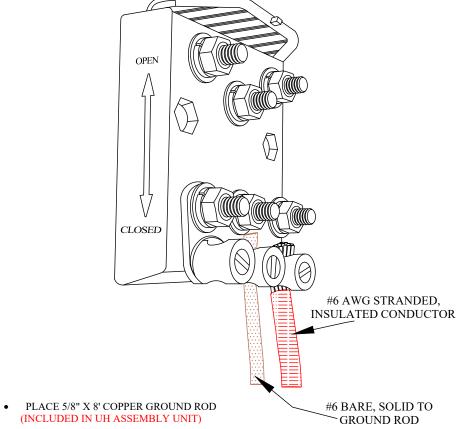
106 CAMERON AVENUE ABOVE GRADE BUILDING ENTRANCE



BUILDING ENTRANCE LOCATION

ISOLATION LEVER LOCATE PLATE DETAIL (PLACED INSIDE HAND HOLE)





ABOVE GRADE ENTRANCE NOTES:

BUILDING ENTRANCE

- 1. Core wall up to 2.00" in diameter.
- 2. Place a 2.00" steel LB access fitting at wall core location.
- 3. Exterior wall core bore will be sealed on the inside of the wall with Link-Seal; the outside of the wall will be sealed with hydraulic cement.

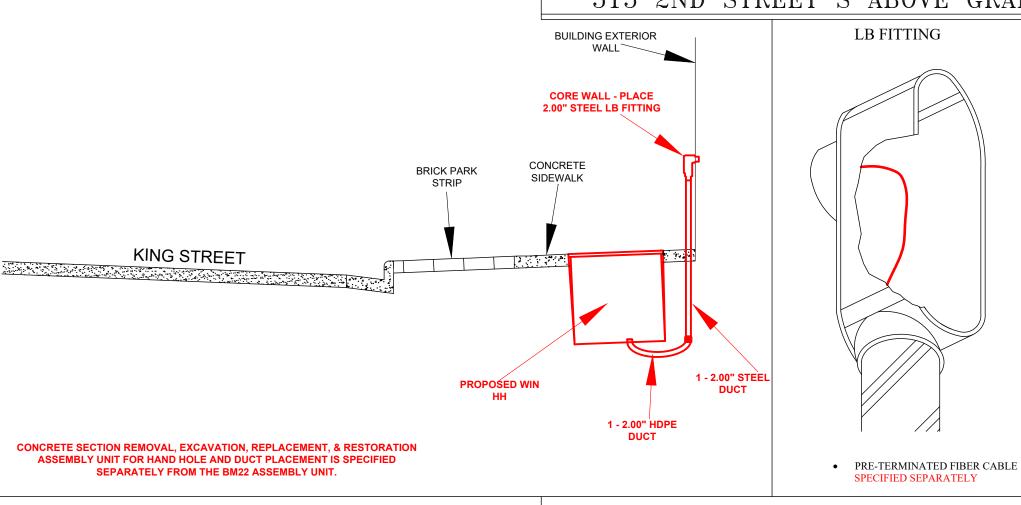
CONDUIT REQUIREMENTS

- 1. Extend one (1) 2.00" steel pipe from the LB access fitting to a point below grade.
- 2. Place one (1) 2.00" HDPE buried duct, from hand hole location to the steel conduit & connect via bell end or connector fitting below ground. The buried duct shall slope towards the hand hole location. The 2.00" duct must be equipped with a pull rope.
- 3. All intra-building conduit runs are to be designed with no more than three (3) 90° bends without the insertion of a pull box. 90° bends must be sweeps with a minimum radius of two feet (2'). Customer or building owner should provide the intra-building conduit.
- 4. All conduits to be plugged and sealed at both ends to prevent rodents, water, or gasses from entering the conduit.

FIBER REQUIREMENTS

1. Intra-building fiber extending beyond 50' must be dielectric; it must have Optical Fiber Nonconductive Riser (OFNR) or Optical Fiber Nonconductive Plenum (OFNP) cable designations. Outdoor rated cable can be used for building entrance applications up to 50' within the building.

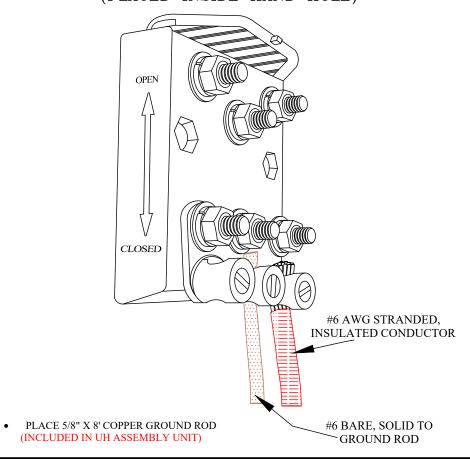
515 2ND STREET S ABOVE GRADE BUILDING ENTRANCE (BM22



BUILDING ENTRANCE LOCATION



ISOLATION LEVER LOCATE PLATE DETAIL (PLACED INSIDE HAND HOLE)



ABOVE GRADE ENTRANCE NOTES:

BUILDING ENTRANCE

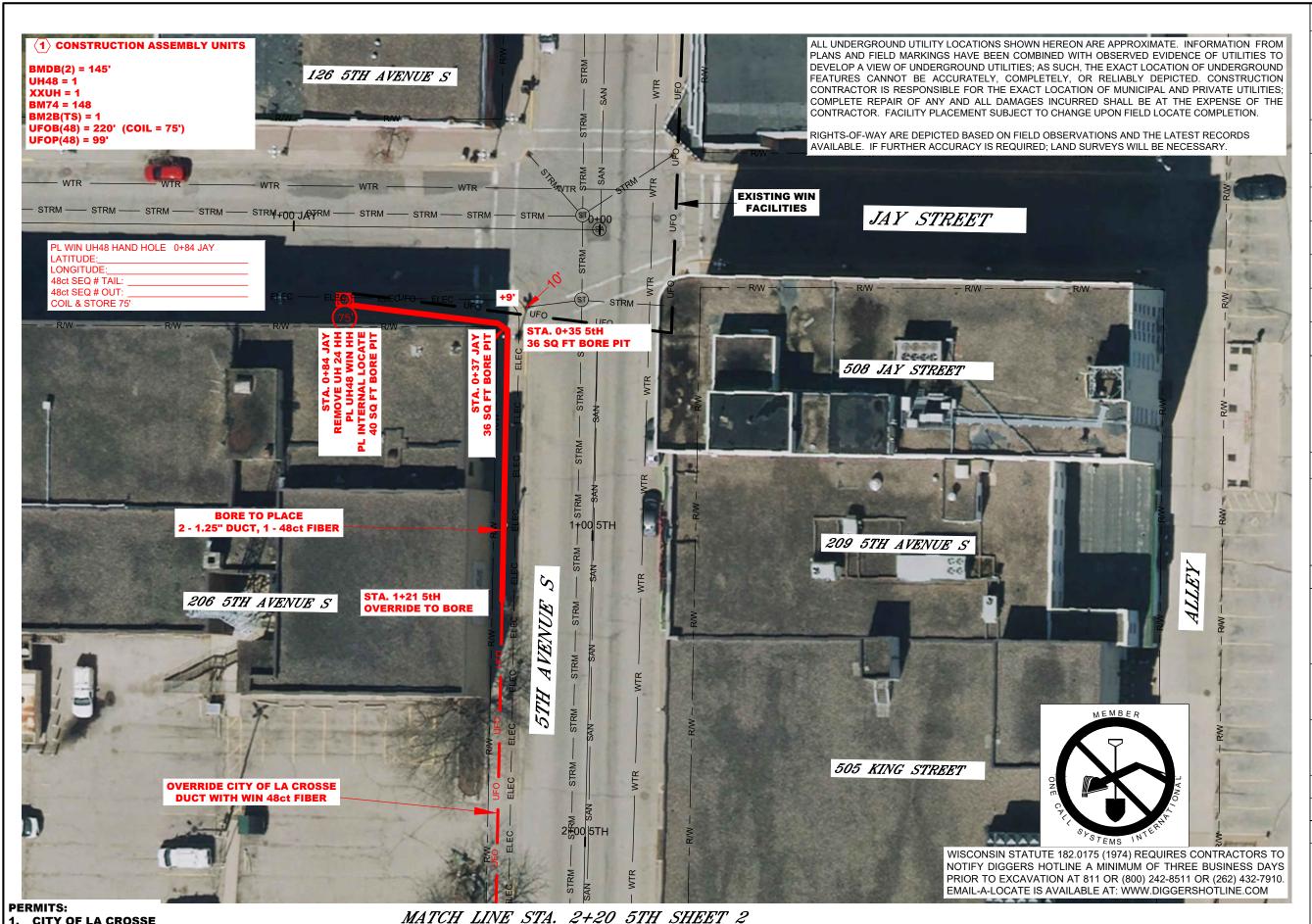
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1. CITY OF LA CROSSE

SHEET 1 OF 11



COUNTY:

LA CROSSE

TOWNSHIP:

LA CROSSE

15N

RANGE:

7W

SECTION:

MUNICIPALITY:

CITY OF LA CROSSE

ROAD NAME:

JAY STREET & 5TH AVENUE S



PROJECT ID #: 06-434

PROJECT DESCRIPTION:

CREATE NEW FIBER NETWORK TO FIRST SUPPLY IN LA CROSSE WI USING CITY DUCT AND NEW DUCT BUILD.

ENG DATE:

10/2022

REVISIONS:

REV 1:

REV 2: **REV 3:**

WIN PROJECT ENGINEER KEN WHITING

O: 715-858-3172 | C: 920-376-2996 ken.whiting@wintechnology.com

WIN PROJECT MANAGER JOHN LOUIS

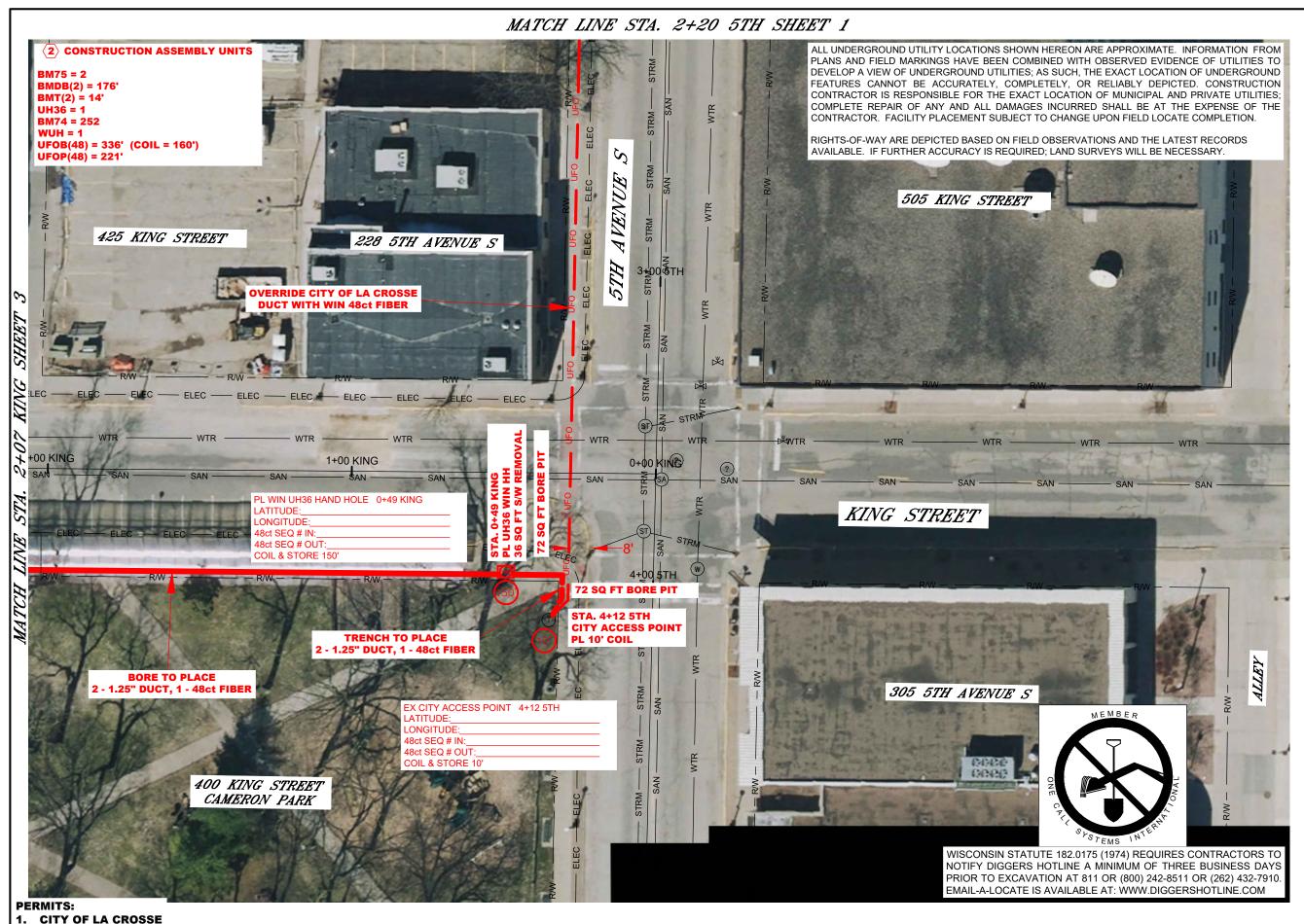
O: 715-838-4012 | C: 715-864-2918 john.louis@wintechnology.com

REDLINE:

AS BUILT:

SCALE: 1'' = 30'

NOTICE



SHEET 2 OF 11



COUNTY:

LA CROSSE

TOWNSHIP:

LA CROSSE

town: 15N

RANGE:

7W

SECTION:

MUNICIPALITY:

CITY OF LA CROSSE

ROAD NAME:

5TH AVENUE S & KING STREET



PROJECT ID #: 06-434

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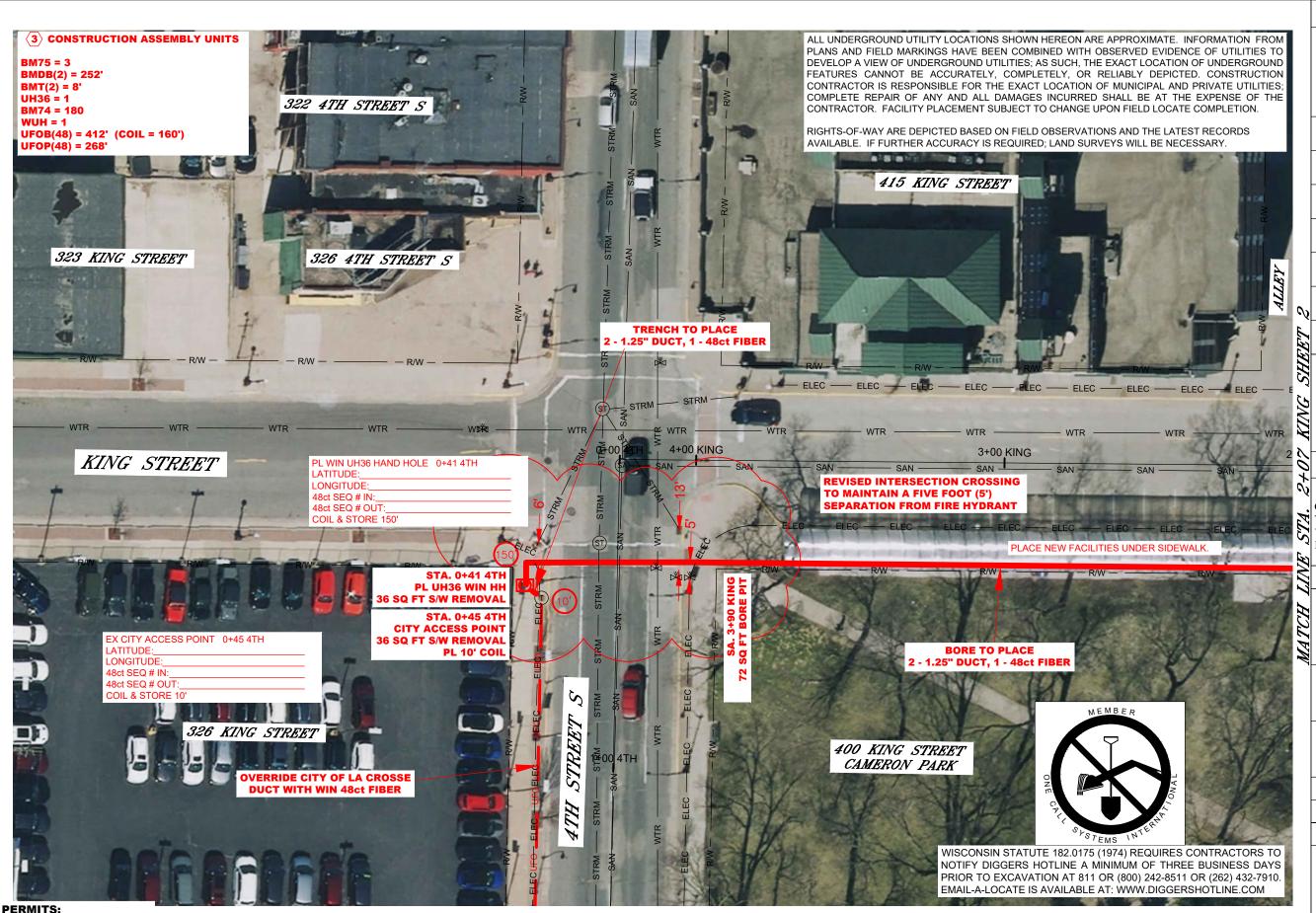
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REDLINE:

AS BUILT:

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NOTICE



MATCH LINE STA. 1+45 4TH SHEET 4

1. CITY OF LA CROSSE

SHEET 3 OF 11



COUNTY:

LA CROSSE

TOWNSHIP:

LA CROSSE

TOWN:

15N

RANGE:

/ W

SECTION:

MUNICIPALITY:

CITY OF LA CROSSE

ROAD NAME:

KING STREET & 4TH STREET S



PROJECT ID #: 06-434

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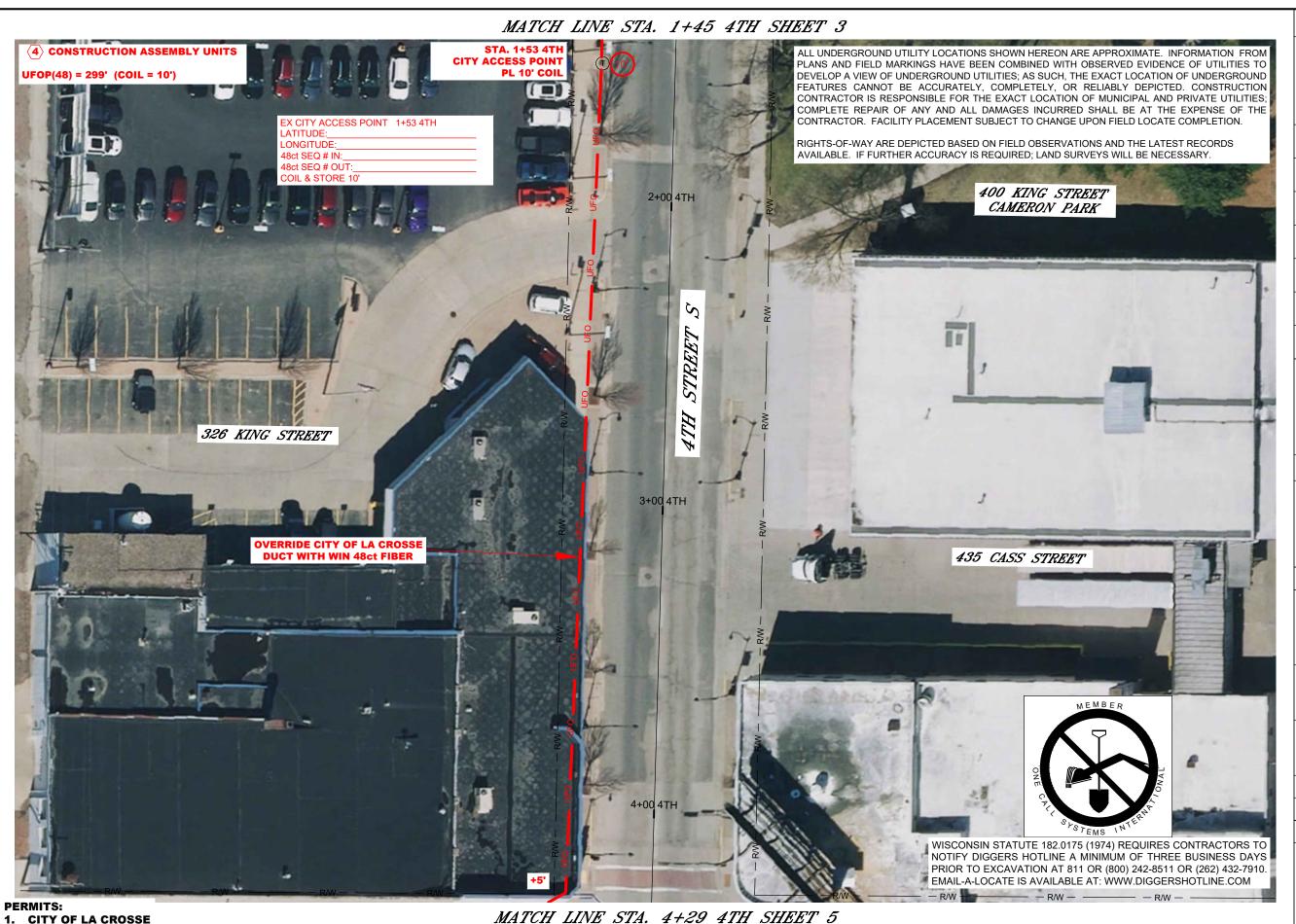
REDLINE:

AS BUILT:

SCALE: 1" = 30'

L. 1

NOTICE contained



SHEET 4 OF 11



COUNTY:

LA CROSSE

TOWNSHIP:

LA CROSSE

TOWN:

RANGE:

7W

SECTION:

MUNICIPALITY:

CITY OF LA CROSSE

ROAD NAME:

4TH STREET S



PROJECT ID #: 06-434

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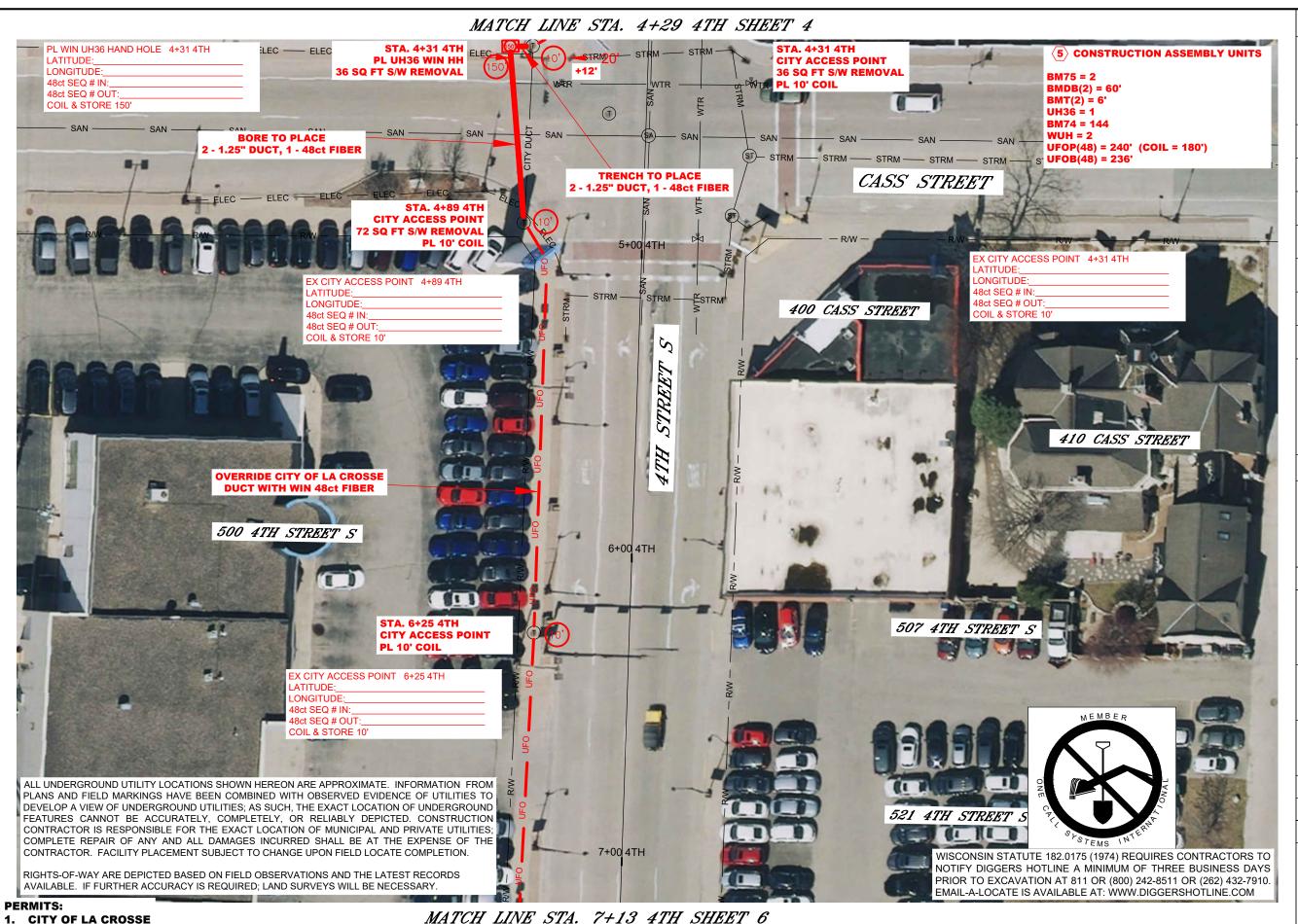
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NOTICE



SHEET 5 OF 11



COUNTY:

LA CROSSE

TOWNSHIP:

LA CROSSE

TOWN: 15N

RANGE:

7W

SECTION:

MUNICIPALITY:

CITY OF LA CROSSE

ROAD NAME:

4TH STREET S



PROJECT ID #: 06-434

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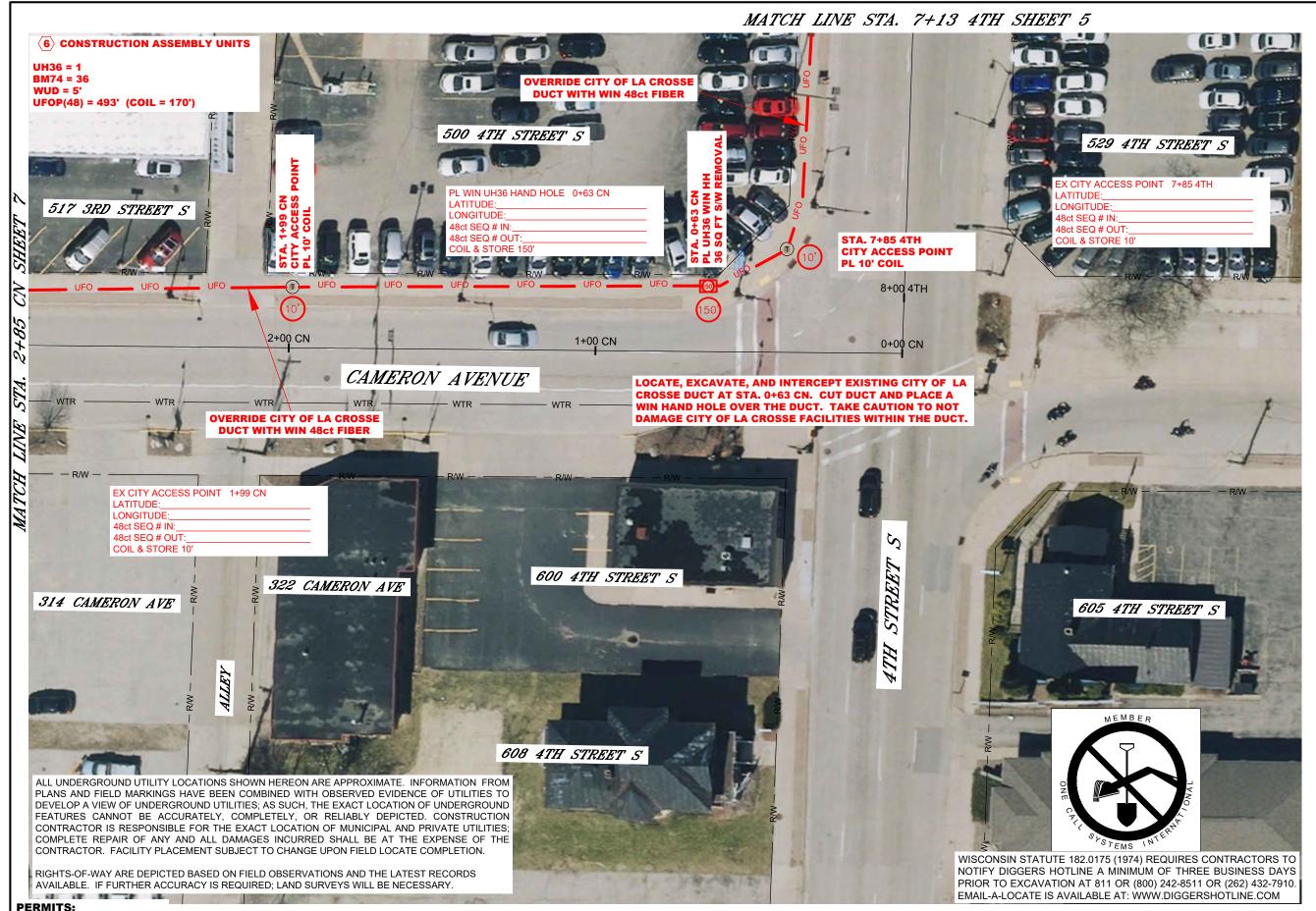
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SCALE: 1" = 30'

NOTICE



1. CITY OF LA CROSSE

SHEET 6 OF 11



COUNTY:

LA CROSSE

TOWNSHIP:

LA CROSSE

TOWN:

15N

RANGE:

7W

SECTION:

MUNICIPALITY:

CITY OF LA CROSSE

ROAD NAME:

4TH STREET & CAMERON AVE



PROJECT ID #: 06-434

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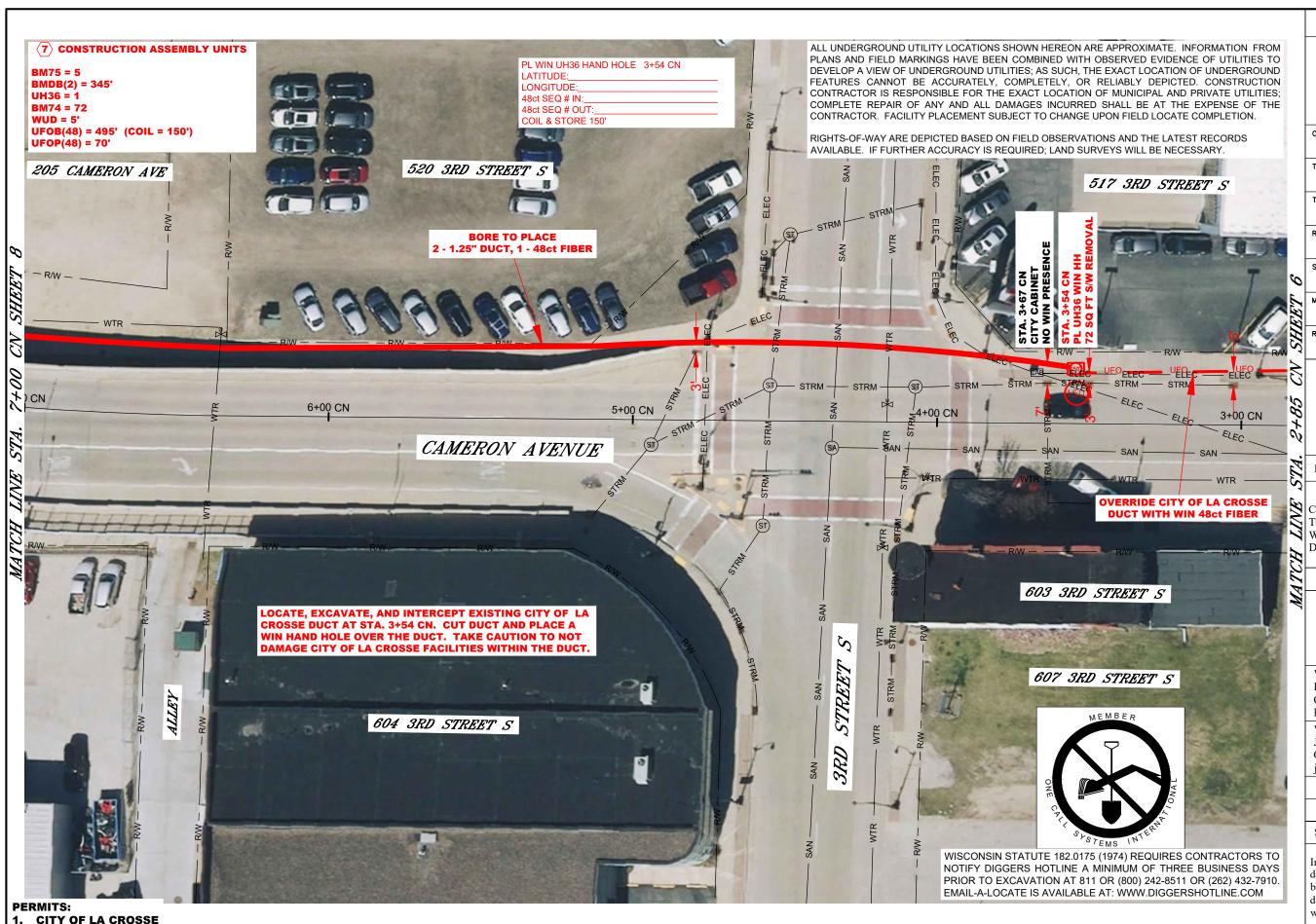
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SCALE: 1'' = 30'

NOTICE



SHEET 7 OF 11



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LA CROSSE

TOWNSHIP:

LA CROSSE

TOWN:

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ROAD NAME:

CAMERON AVENUE



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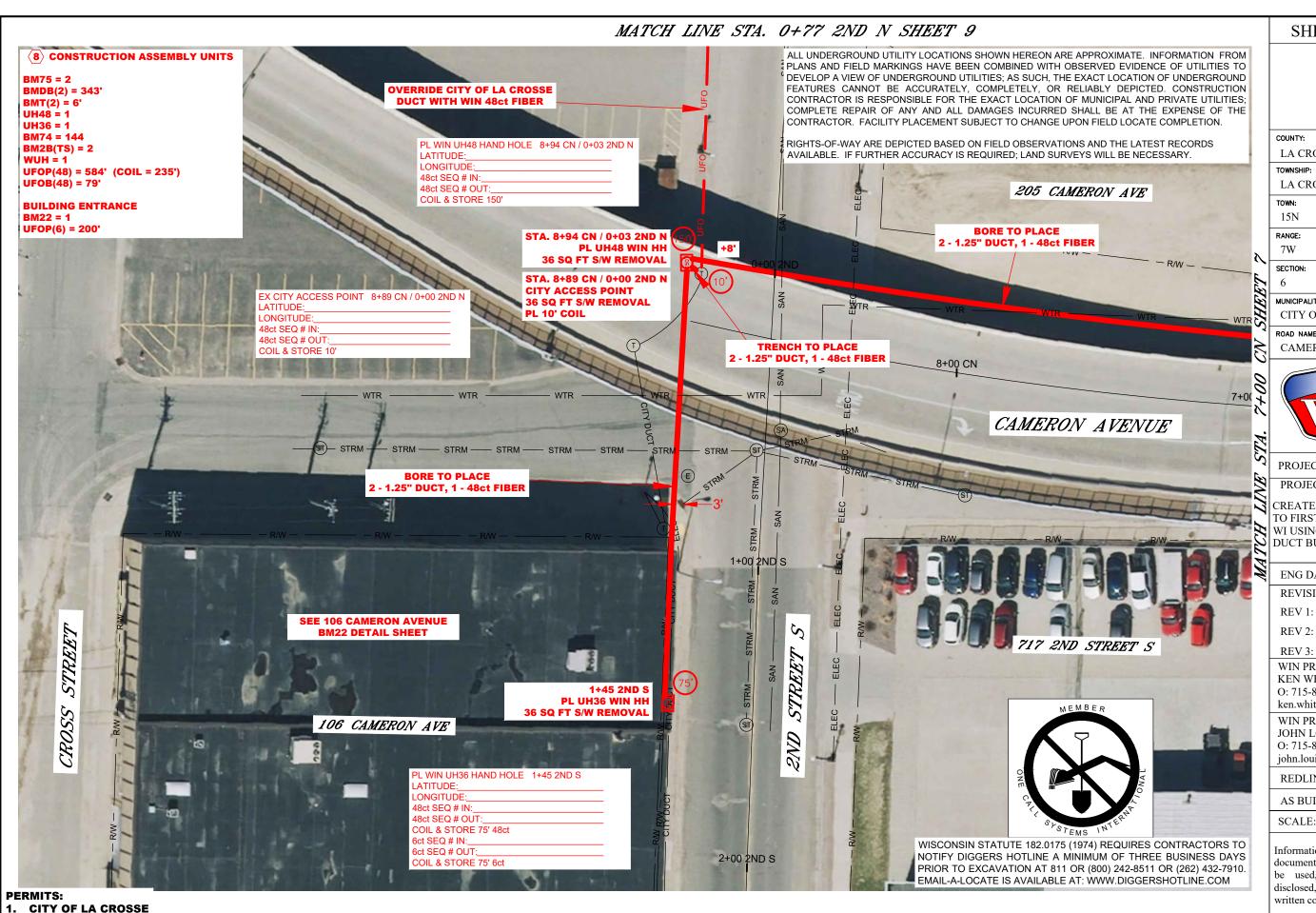
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SHEET 8 OF 11



COUNTY:

LA CROSSE

TOWNSHIP:

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CAMERON AVE & 2ND STREET



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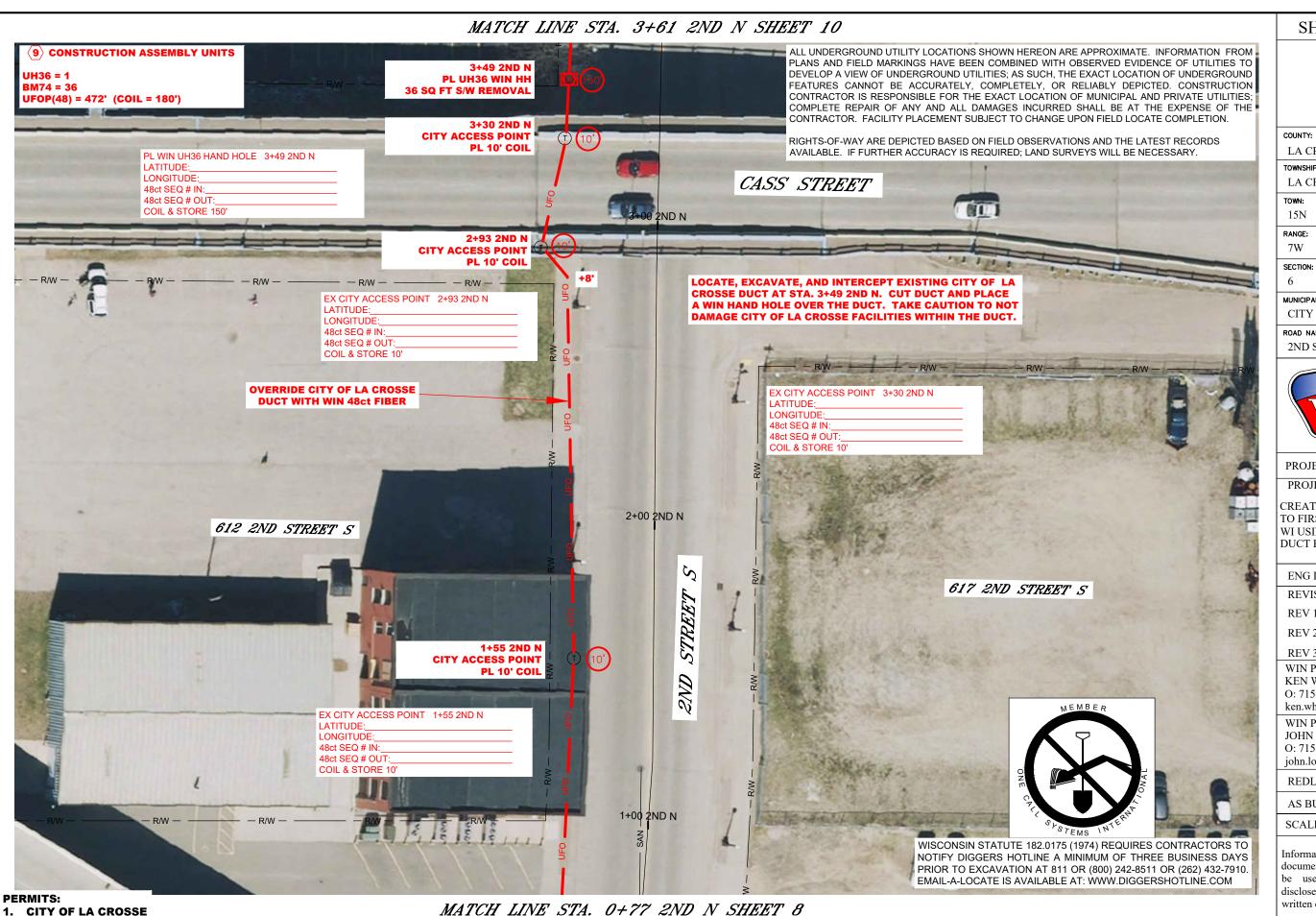
O: 715-838-4012 | C: 715-864-2918 john.louis@wintechnology.com

REDLINE:

AS BUILT:

1" = 30' SCALE:

NOTICE



SHEET 9 OF 11



COUNTY:

LA CROSSE

TOWNSHIP:

LA CROSSE

TOWN:

15N

RANGE:

7W

MUNICIPALITY:

CITY OF LA CROSSE

ROAD NAME:

2ND STREET S



PROJECT ID #: 06-434

PROJECT DESCRIPTION:

CREATE NEW FIBER NETWORK TO FIRST SUPPLY IN LA CROSSE WI USING CITY DUCT AND NEW DUCT BUILD.

ENG DATE:

10/2022

REVISIONS:

REV 1:

REV 2:

REV 3: WIN PROJECT ENGINEER

KEN WHITING O: 715-858-3172 | C: 920-376-2996 ken.whiting@wintechnology.com

WIN PROJECT MANAGER JOHN LOUIS

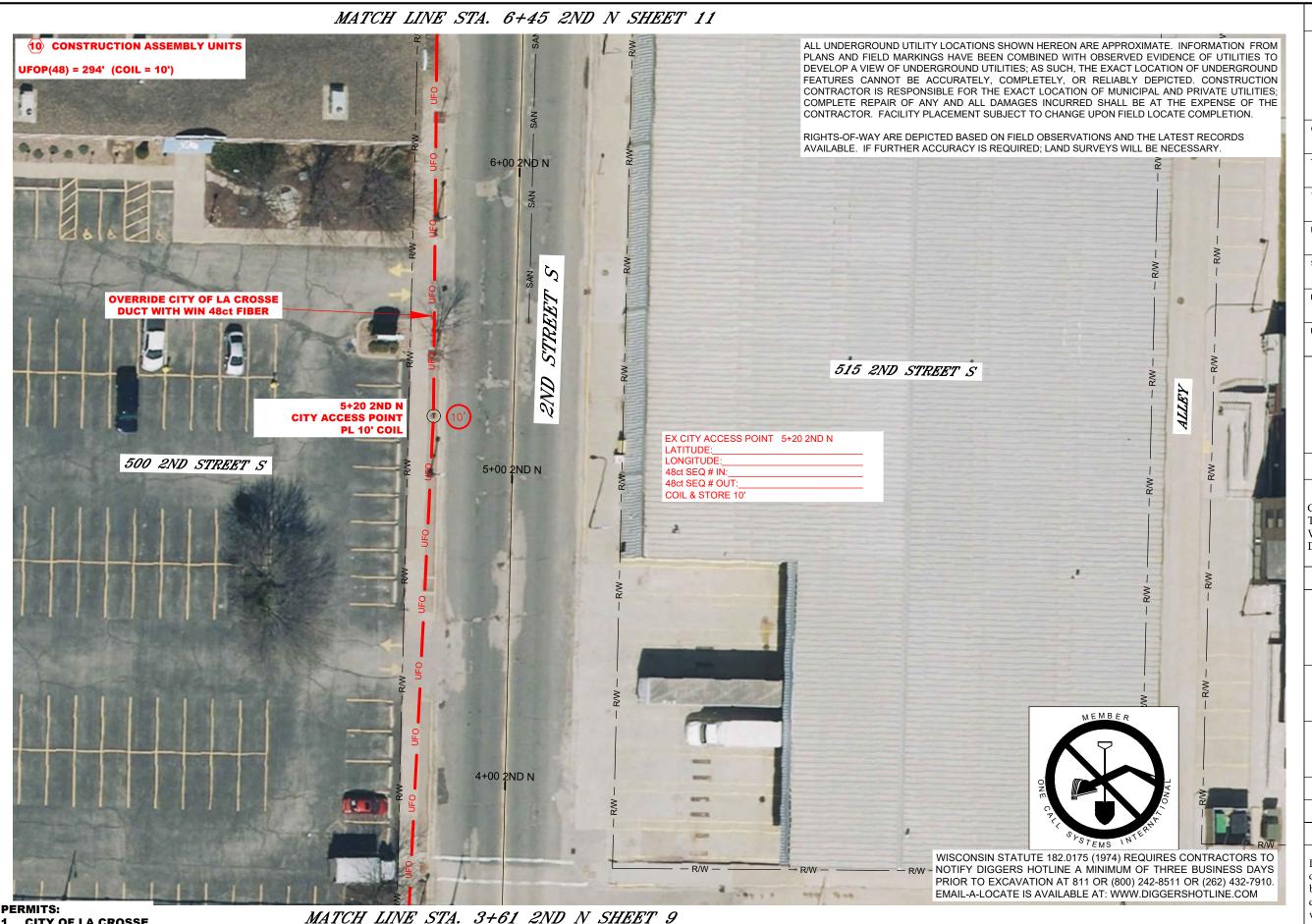
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1. CITY OF LA CROSSE

SHEET 10 OF 11



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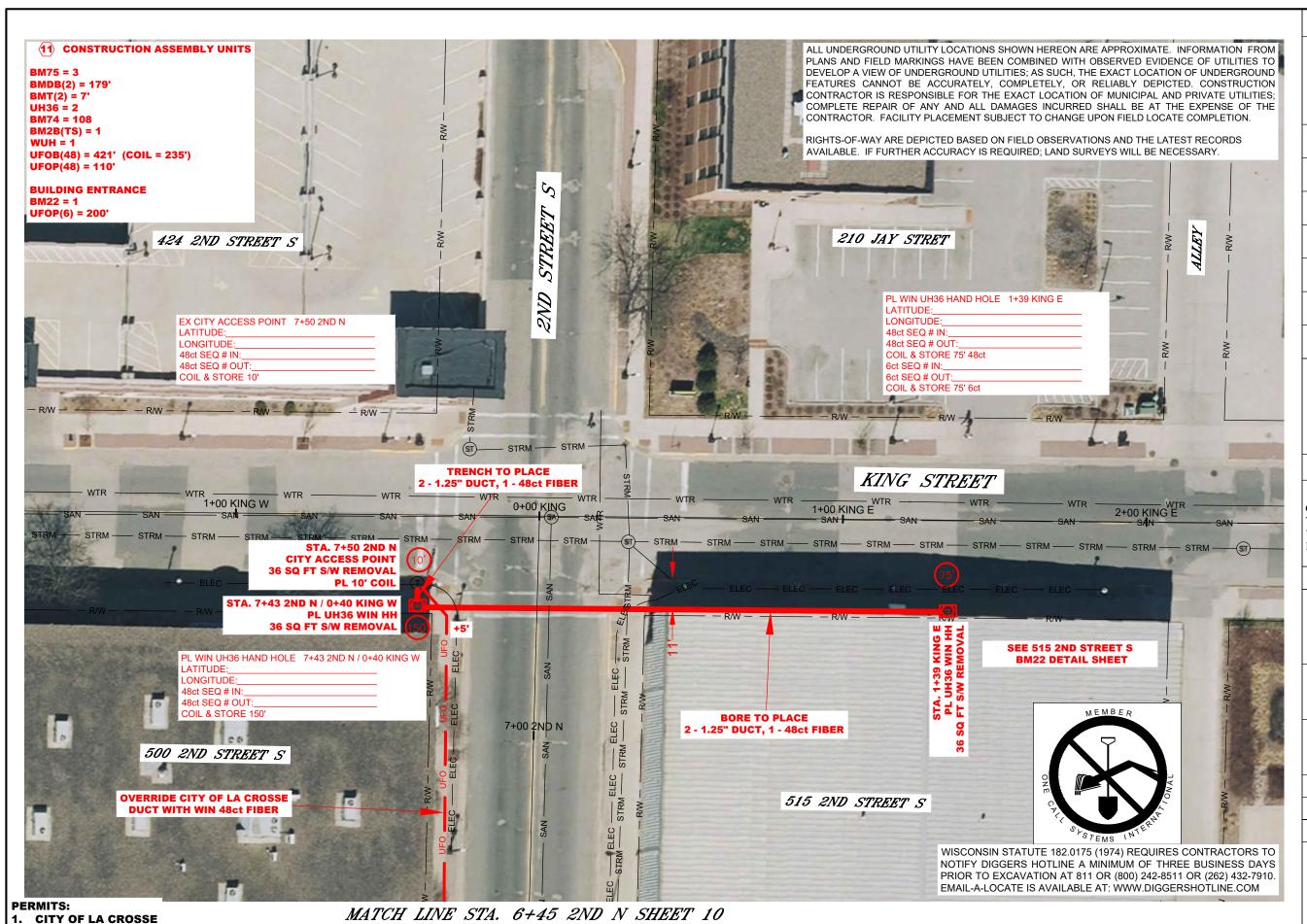
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REDLINE:

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SHEET 11 OF 11



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