



TASK NAME: WILC015-U-S1

TASK DESCRIPTION: FIBER OPTIC CONDUIT PLACEMENT

SITE LOCATION: LACROSSE, WI



3701 COMMUNICATIONS WAY
EVANSVILLE, IN, 47715



1100 E. WOODFIELD ROAD, SUITE 500
SCHAUMBURG, ILLINOIS 60173
TEL: 847-908-8400
COA# 3620-11
www.fullerton-us.com

PROJECT INFORMATION

TASK NAME: WILC015-U-S1

TASK DESCRIPTION: FIBER OPTIC CONDUIT PLACEMENT

SITE LOCATION: LACROSSE, WI

SITE TYPE: UNDERGROUND FIBER-OPTIC CONSTRUCTION

JURISDICTION: LACROSSE, WI

APN: -

ZONING CLASSIFICATION: -

OCCUPANCY TYPE: -

CONSTRUCTION TYPE: -

APPLICANT: METRO FIBERNET, LLC

ADDRESS: 3701 COMMUNICATIONS WAY
EVANSVILLE, IN, 47715

CONTACT: TARAN WELCHLIN

PHONE: (608) 606-2043

EMAIL: TARAN.WELCHLIN@METRONET.COM

NOTE: DRAWING SCALES ARE FOR 11"x17" SHEETS UNLESS OTHERWISE NOTED

PROJECT CONSULTANTS

PROJECT MANAGER: FULLERTON ENGINEERING CONSULTANTS, LLC

ADDRESS: 1100 E. WOODFIELD ROAD, SUITE 500

CONTACT: MICHELLE KAMINSKI

PHONE: (616) 262-8400

EMAIL: MKAMINSKI@FULLERTON-US.COM

ENGINEER: FULLERTON ENGINEERING CONSULTANTS, LLC

ADDRESS: 1100 E. WOODFIELD ROAD, SUITE 500
SCHAUMBURG, ILLINOIS 60173

EOR: DAN SMITH, P.E.

PHONE: 847-908-8521

EMAIL: DSMITH@FULLERTONENGINEERING.COM

POWER COMPANY:

PHONE:

TELEPHONE COMPANY:

PHONE:

SCOPE OF WORK

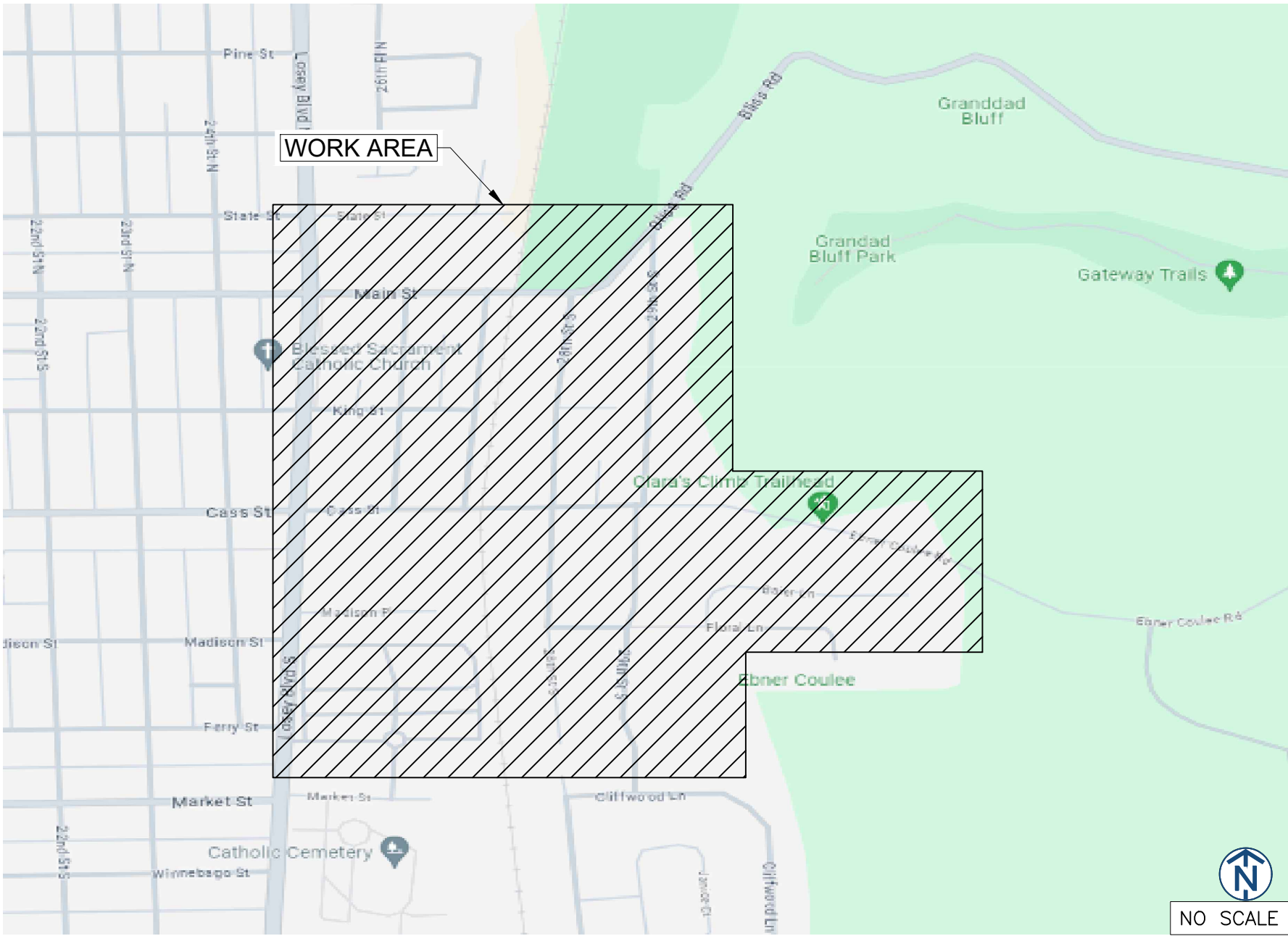
THE SCOPE OF WORK CONSISTS OF:

INSTALLATION OF:

- 5,282' OF UNIQUE CONDUIT
- 8,914' OF 1.25" CONDUIT DIRECTIONAL BORE
- 3,170' OF AERIAL CONDUIT
- (1) M-HANDHOLE 24X36X18
- (2) B-HANDHOLE 17X30X18(UTILITY BOX)
- (6) TB- HANDHOLE 15X24X18(TERMINAL BOX)
- (32) DB- HANDHOLE 12X12X13 (DROP BOX)

ALL MATERIAL SHALL BE INSTALLED BY THE CONTRACTOR, UNLESS STATED OTHERWISE.

SITE LOCATION MAP










REV	DATE	DESCRIPTION	BY
A	03/19/24	ISSUED FOR REVIEW	CS
B	05/10/24	REVISED	CS
C	05/30/24	REVISED	JF

I HEREBY CERTIFY THAT THESE DRAWINGS WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND CONTROL, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF COMPLY WITH THE REQUIREMENTS OF ALL APPLICABLE CODES.



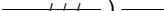




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WILC015-U-S1
TASK DESCRIPTION
FIBER OPTIC CONDUIT PLACEMENT
PROJECT AREA
LACROSSE, WI
SHEET SCALE
N.T.S.
SHEET TITLE
TITLE SHEET
GRID NUMBER
SHEET NUMBER
T-1

LEGEND











PROPOSED

	PROPOSED OPEN CUT TRENCH		PROPOSED B-UTILITY BOXES(17X30X18)
	PROPOSED DIRECTIONAL BORE		PROPOSED TERMINAL BOXES(13X24X15)
	PROPOSED BORE PIT		PROPOSED DROP BOXES(11X11X12)
	PROPOSED L-HANDHOLE(30X48X24)		
	PROPOSED M-HANDHOLE(24X36X18)		








SEWER

	EXISTING SEWER MAIN		EXISTING SEWER MANHOLE
	EXISTING SEWER MAIN (ABANDON)		EXISTING SEWER CATCH BASIN
	EXISTING STORM SEWER MAIN		EXISTING SEWER INLET
	EXISTING STORM MANHOLE		











WATER

	EXISTING WATER MAIN		EXISTING WATER MANHOLE
	EXISTING WATER MAIN (ABANDON)		EXISTING WATER VALVE
	EXISTING WATER SHUT OFF		EXISTING WATER METER
	EXISTING FIRE CISTERN MANHOLE		EXISTING FIRE HYDRANT
	EXISTING WATER CAP		EXISTING WATER REDUCER















GAS

	EXISTING GAS MAIN		EXISTING GAS MANHOLE
	EXISTING GAS MAIN (DEAD)		EXISTING GAS VALVE
	EXISTING GAS CAP		EXISTING GAS METER
	EXISTING GAS REDUCER		






















DEO/ELECTRIC

	EXISTING DEO/ELECTRIC		EXISTING STREET LIGHT POLE
	EXISTING STREET LIGHT CONTROL BOX		EXISTING TRAFFIC LIGHT POLE
	EXISTING TRAFFIC LIGHT CONTROL BOX		EXISTING DEO POLE
	EXISTING STREET LIGHT HANDHOLE		EXISTING ELECTRIC MANHOLE
	EXISTING TRAFFIC LIGHT HANDHOLE		EXISTING ELECTRIC HANDHOLE
	EXISTING RED LIGHT CAMERA POLE		EXISTING RED LIGHT FLASH POLE

COMMUNICATIONS

	EXISTING AT&T		EXISTING AT&T MANHOLE
	EXISTING AT&T (ABANDON)		
	EXISTING COMMUNICATIONS		EXISTING COMMUNICATIONS MANHOLE
	EXISTING MCI		EXISTING MCI
	EXISTING SPRINT		EXISTING SPRINT/NEXTEL MANHOLE
	EXISTING SUNESYS		EXISTING SUNESYS MANHOLE
	EXISTING VERIZON		EXISTING VERIZON MANHOLE
	EXISTING CITY FIBER		

MISCELLANEOUS

	EXISTING FENCE		EXISTING MISCELLANEOUS MANHOLE
	EXISTING CONSTRUCTION FENCE		EXISTING GARBAGE CAN
	EXISTING GUARDRAIL		EXISTING PARK DISTRICT MANHOLE
	EXISTING PROPERTY LINE/ R.O.W.		EXISTING MONITORING WELL
	EXISTING BIKE RACK		EXISTING FIRE ALARM
	EXISTING TREE		EXISTING STREET PARKING PAY BOX
	EXISTING BUSH		EXISTING PEDESTAL
	EXISTING STREET SIGN POST		EXISTING MAILBOX
	EXISTING POST/BOLLARD		EXISTING NEWSPAPER BOX
	EXISTING GROUND LIGHT		EXISTING PHONE
	EXISTING UTILITY POLE		EXISTING SPRINKLER CONTROL BOX
	EXISTING STANDPIPE		EXISTING SPRINKLER VALVE
	EXISTING ADA RAMP		EXISTING SUPPORT COLUMN

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PROJECT AREA

LACROSSE, WI

SHEET SCALE

N.T.S.

SHEET TITLE

LEGEND

GRID NUMBER

SHEET NUMBER

T-3

1. THE ENCLOSED DESIGN MAY IMPLY EXISTING UTILITIES. THE UTILITIES HAVE NOT BEEN FIELD VERIFIED FOR LOCATION. THEREFORE, ALL UTILITIES IMPLIED WITHIN THIS DOCUMENT ARE TO BE REFERRED TO AS A "REFERENCE TOOL". IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND/OR IT'S SUBCONTRACTOR TO VERIFY THESE UTILITIES USING ANY AND ALL METHODS AND INSTRUMENTS AVAILABLE IF/WHEN NECESSARY. FULLERTON CANNOT IN GOOD FAITH GUARANTEE UTILITY LOCATIONS. ANY AND ALL DOCUMENTATION ON EXISTING UTILITIES HAS BEEN IMPLIED UTILIZING INFORMATION RETRIEVAL PROCESSES FROM EACH JURISDICTION INVOLVED (STATE, COUNTY AND/OR MUNICIPALITY, TO INCLUDE OTHERS).
2. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO ENSURE ALL CONDUITS ARE PLACED WITHIN THE GIVEN & DEDICATED SPACE LICENSED FOR THIS PARTICULAR CLIENT. FULLERTON ENGINEERING CONSULTANTS, INC. (FULLERTON) WAS NOT RETAINED FOR THE PURPOSE OF SUPPORTING A SURVEY OF THE AREA AND PROPERTY BOUNDARIES, THEREFORE FULLERTON CAN NOT AND WILL NOT SUPPORT THE ACCURACY OF ANY IMPLIED BOUNDARY (I.E. PUBLIC WAY, PRIVATE PROPERTY, EASEMENT ETC.) NOR IS IT TO BE ASSUMED THAT THE SALE OF PROPERTIES HAS NOT OCCURRED DURING & AFTER FULLERTON'S RESPONSIBILITIES FOR THIS PROJECT HAVE PAST. ALL BOUNDARIES, EASEMENTS, PROPERTY LINES, ETC. ARE TO BE USED AS A GUIDELINE OR REFERENCE AND SHOULD NOT BE TAKEN LITERALLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE ASSOCIATED BOUNDARIES SURVEY STAKED IF SO QUESTIONED. ALL ASPECTS OF BOUNDARIES IMPLIED HEREIN, HAVE BEEN DERIVED THROUGH AVAILABLE MEDIA SUCH AS BUT NOT LIMITED TO (SIDWELL, GOOGLE EARTH PRO. MUNICIPAL, STATE, COUNTY, GIS, AND OTHER RECORD TYPES). FULLERTON DOES NOT AGREE NOR DISAGREE WITH THE ABOVE-MENTIONED RECORDS AS THEY ARE USED JUST A REFERENCE TOOL.
3. ALL BURIED OBSTRUCTIONS KNOWN BY FULLERTON ARE SHOWN ON THE CONSTRUCTION DRAWINGS. ANY AND ALL OTHERS ENCOUNTERED DURING CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND PROTECT.
4. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES 48 HOURS PRIOR TO CONSTRUCTION ACTIVITY.
5. SHORING MAY BE REQUIRED AND SHALL COMPLY TO O.S.H.A. STANDARDS.
6. ALL BURIED CONDUIT/CABLE WILL BE PLACED AT 30-48" MINIMUM COVER UNLESS SPECIFIED OR OTHERWISE NOTED ON THE CONSTRUCTION DRAWINGS.
7. ANY AND ALL IMPROVEMENTS, IF DAMAGED, SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION. THIS INCLUDES BUT IS NOT LIMITED TO: ASPHALT, CONCRETE PAVEMENT, CURBS, GUTTERS, SIDEWALKS, DRAINAGE DITCHES, EMBANKMENTS, SHRUBS, TREES, GRASS SOD, ETC..
8. ALL FIBER INSTALLATIONS SHALL OBSERVE A MINIMUM DYNAMIC BEND RADIUS OF 20X THE CABLE DIAMETER FOR ALL OSP FIBER SHEATHS AND 15X THE CABLE DIAMETER FOR ALL ISP FIBER SHEATHS. ADDITIONALLY, ALL INSTALLATIONS SHALL OBSERVE A MINIMUM STATIC BEND RADIUS OF 15X THE CABLE DIAMETER FOR ALL OSP FIBER SHEATHS AND 10X THE CABLE DIAMETER FOR ALL ISP FIBER SHEATHS. IF THE MANUFACTURER'S SPECIFICATIONS FOR BEND RADIUS ARE GREATER, THEN THEY SHALL BE FOLLOWED.
9. ALL NEW METALLIC AERIAL STRAND SHALL BE BONDED/GROUNDED (PREFERABLY TO THE POWER COMPANY NEUTRAL) PER LOCAL REQUIREMENTS. AT A MINIMUM, THE BONDING/GROUNDING PATTERN SHALL BE THE FIRST AND LAST POLE OF A RUN AND EVERY TENTH POLE IN THE RUN. SHOULD ONE OF THESE DESIGNATED POLES SUPPORT A POWER TRANSFORMER, THE POLES ON EITHER SIDE OF SAID POLE SHALL BE BONDED/GROUNDED AND THE PATTERN SHOULD CONTINUE EVERY TENTH POLE FROM THAT STARTING POINT.
10. ALL AERIAL FIBER OPTIC CABLES SHALL BE SECURELY LASHED TO AERIAL STRAND BY METHOD OF MECHANICAL LASHING CARRIAGE OR APPROVED EQUAL.
11. ALL FIBER OPTIC CABLES INSTALLED BELOW GRADE SHALL BE OF AN ARMORED VARIETY WITH METALLIC INNER SHEATH, OR BE PLACED WITH A METALLIC LOCATING WIRE TO FACILITATE FUTURE LOCATING SERVICES.
12. ALL CONDUIT OR DUCT CONSTRUCTION SHALL INCLUDE THE PLACEMENT OF PULLING TAPE OF SUFFICIENT SIZE AND GRADE TO FACILITATE THE INSTALLATION OF THE SPECIFIED FIBER TYPE THROUGH CONDUIT BEING UTILIZED (JETLINE USE TO BE APPROVED BY CLIENT).
13. ALL FUSION SPLICING SHALL BE COMPLETED BY A QUALIFIED FIBER SPLICER IN A CLEAN TEMPERATURE CONTROLLED TRUCK, TRAILER, OR SHELTER SPECIFICALLY TOOLED OR DESIGNED FOR THE PURPOSE OF FUSION SPLICING FIBER OPTIC CABLES IN A FIELD ENVIRONMENT.
14. ALL MECHANICAL SPLICES AND FACTORY ENDS SHALL BE KEPT CLEAN AND FREE FROM DUST, DIRT, OILS, AND SMEARS. CARE SHOULD BE TAKEN TO MATCH POLISH TYPES ON FACTORY ENDS.
15. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL CORRECTIONS TO WORK IDENTIFIED AS UNACCEPTABLE BY CLIENT, ENGINEER, OR INSPECTOR, DURING SITE INSPECTION ACTIVITIES AND/OR AS A RESULT OF TESTING. CONTRACTOR SHALL ALSO PROVIDE ALL AS-BUILT INFORMATION UPON COMPLETION OF INSPECTION.
16. CONTRACTOR SHALL KEEP THE SITE FREE FROM ACCUMULATING WASTE MATERIAL, DEBRIS, AND TRASH. AT THE COMPLETION OF THE WORK, CONTRACTOR SHALL REMOVE FROM THE SITE ALL REMAINING RUBBISH, IMPLEMENTS, TEMPORARY FACILITIES, AND SURPLUS MATERIALS. CONTRACTOR TO RETURN SITE TO PREVIOUS OR BETTER CONDITION.
17. DRAWINGS ARE INTENDED TO SHOW DESIGN INTENT. CONTRACTOR SHALL PROVIDE MATERIALS AND LABOR AS REQUIRED TO PRODUCE A COMPLETE AND FUNCTIONING SYSTEM WHILE MEETING ALL CODES AND SPECIFICATIONS. MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS. SUCH MODIFICATIONS SHALL BE INCLUDED IN THE WORK. SAID DESIGN IS INTENDED TO AVOID DISRUPTION OF ANY HANDICAP RAMPS OR STRUCTURES AS DESCRIBED PER THE AMERICANS WITH DISABILITIES ACT OF 1990.

18. CONTRACTOR SHALL WORK WITH CLIENT TO IDENTIFY ALL CONTRACTOR SUPPLIED MATERIALS TO CONSTRUCT NETWORK PER SPECIFICATIONS.
19. THE CONTRACTOR SHALL PROVIDE ALL MATERIAL, EQUIPMENT, LABOR, INSTALLATION, RESTORATION, UTILITY RELOCATION CHARGES, JOB SITE DELIVERY COSTS AND INCIDENTALS TO COMPLETE THE DESCRIBED OR ILLUSTRATED WORK UNDER THIS CONTRACT.
20. ANY CHANGE-ORDER REQUEST MUST BE PRESENTED IN WRITING TO THE OWNER'S REPRESENTATIVE AND APPROVED PRIOR TO PROCEEDING WITH THE REQUESTED CHANGE.
21. THE ENGINEER WILL NOT BE RESPONSIBLE NOR ASSUME ANY LIABILITY FOR NEGLIGENT ACTS OR ERRORS OF OMISSIONS OF ANY CONTRACTOR, ANY SUBCONTRACTOR, OR ANY OF THE PERSONS (EXCEPT ENGINEER'S OWN EMPLOYEES) AT THE PROJECT SITE OR OTHERWISE PERFORMING ANY OF THE WORK OF THE PROJECT. ANY CONTRACTOR OR SUBCONTRACTOR, AS WELL AS THE ENGINEER, WILL BE RESPONSIBLE FOR HIS OWN SAFETY PROGRAM. NEITHER THE PROFESSIONAL ACTIVITIES OF THE ENGINEER, NOR THE PRESENCE OF THE ENGINEER OR HIS OR HER EMPLOYEES AND SUB-CONSULTANTS AT THE CONSTRUCTION SITE, SHALL RELIEVE ANY CONTRACTOR OF HIS OR HER OBLIGATIONS, DUTIES AND RESPONSIBILITIES INCLUDING, BUT NOT LIMITED TO, CONSTRUCTION MEANS, METHODS, SEQUENCE, TECHNIQUES OR PROCEDURES NECESSARY FOR PERFORMING, SUPERINTENDING OR COORDINATING ALL PORTIONS OF THE WORK OF CONSTRUCTION IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ANY HEALTH OR SAFETY PRECAUTIONS REQUIRED BY ANY REGULATORY AGENCIES. THE ENGINEER AND HIS OR HER PERSONNEL HAVE NO AUTHORITY TO EXERCISE ANY CONTROL OVER ANY CONSTRUCTION CONTRACTOR OR OTHER ENTITY OR THEIR EMPLOYEES IN CONNECTION WITH ANY HEALTH OR SAFETY PRECAUTIONS.
22. ALL MATERIALS INSTALLED WITHIN THE LIMITS OF THIS PROJECT SHALL BE IN CONFORMANCE WITH STANDARD RECOMMENDATIONS OF THE NATIONAL ELECTRIC MANUFACTURER'S ASSOCIATION (NEMA) AND THE AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI).
23. THE CONTRACTOR SHALL OBTAIN ALL PERMITS AND COMPLY WITH THE REQUIREMENTS OF ALL AGENCIES HAVING JURISDICTION OVER THE WORK AND SHALL COORDINATE HIS WORK WITH THE WORK PERFORMED BY OTHERS FOR THE PURPOSE OF INSTALLATION. THIS INCLUDES, BUT IS NOT LIMITED TO, ALL WORK WITH ALL PUBLIC AND PRIVATE UTILITIES AS WELL AS CITY AND STATE AGENCIES.
24. CONTRACTOR SHALL RECORD THE LOCATION AND ELEVATION OF ALL UTILITIES ENCOUNTERED, AND INSTALLATION OF NEW WORK, AS THE WORK PROGRESSES AND SHALL PREPARE RECORD DRAWINGS (RED-LINES) BASED ON HIS RECORDS. AS A PART OF THE RECORD DRAWINGS, CONTRACTOR SHALL ALSO PROVIDE HORIZONTAL AND VERTICAL CONFIGURATION OF CONDUITS WHERE MULTIPLE CONDUITS ARE INSTALLED. THESE RECORDS ARE TO BE SUPPLIED TO FULLERTON ENGINEERING AT COMPLETION OF WORK.
25. MAINTAIN MORE THAN 2'-0" VERTICAL CLEARANCE AND MORE THAN 4'-0" HORIZONTAL CLEARANCE BETWEEN EXISTING SEWER OR SEWER STRUCTURES AND UTILITY. IF CITY SEWER FACILITIES ARE DAMAGED DURING CONSTRUCTION, IT MUST BE REPORTED TO CITY ENGINEERING SECTION AND MUST BE REPAIRED BY A LICENSED DRAIN LAYER UNDER THE SUPERVISION OF THE MASON INSPECTOR.
26. NO STORAGE OF EQUIPMENT OR MATERIALS IN THE ROADWAY IS PERMITTED UNLESS THE CONTRACTOR OBTAINS WRITTEN PERMISSION FROM THE CITY, STATE, AND/OR GOVERNING BODY.
27. CONTRACTOR RESPONSIBLE FOR OBTAINING AND PROVIDING REVIEW AND DESIGN OF ANY AND ALL SHORING SYSTEMS PRIOR TO CONSTRUCTION.
28. THE ENGINEER SHALL BE NOTIFIED FOR DISPOSITION OF SITUATIONS WHERE THE CONDUIT CANNOT MAINTAIN SEPARATIONS PER PLAN.
29. THE CONTRACTOR IS RESPONSIBLE FOR THE RESTORATION OF THE AREAS DISTURBED BY CONSTRUCTION ACTIVITIES. CONTRACTOR IS TO PAY ALL FEES AND OBTAIN ALL PERMITS FOR RESTORATION. CONTRACTOR IS TO RESTORE ALL DAMAGED STRUCTURES AND UTILITIES TO THE SATISFACTION OF THE FACILITY OWNER OR THE GOVERNING BODY, IN THE EVENT THAT DAMAGE OCCURS.
30. USE EXTREME CAUTION NEAR ALL GAS FACILITIES DURING CONSTRUCTION AND RELATED EXCAVATION ACTIVITIES, HAND EXCAVATION IS REQUIRED TO VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF GAS MAIN(S) PRIOR TO CROSSING AND WORKING WITHIN 3 FEET OF ALL GAS FACILITIES. A MINIMUM OF 3 FEET HORIZONTAL EDGE TO EDGE CLEARANCE IS REQUIRED FOR GAS MAINS WITH DIAMETERS OF 16 INCHES OR SMALLER, AND 5 FEET EDGE TO EDGE CLEARANCE FOR GAS MAINS WITH DIAMETERS 18 INCHES AND LARGER IN DIAMETER. THE USE OF CONCRETE, FLOW FILL, OR THE LIKE IS PROHIBITED WITHIN 24 INCHES OF ALL GAS FACILITIES, NOR SHALL IT ENCASE ANY GAS FACILITY. SAND IS TO BE USED AS A BUFFER BETWEEN FLOWABLE FILL AND ALL GAS FACILITIES, ANY DAMAGE TO GAS FACILITIES SHALL BE THE RESPONSIBILITY OF THE INSTALLING UTILITY AND THEIR CONTRACTORS.

metronet™

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PROJECT AREA

LACROSSE, WI

SHEET SCALE

N.T.S.

SHEET TITLE

GENERAL NOTES

GRID NUMBER

SHEET NUMBER

GN-1



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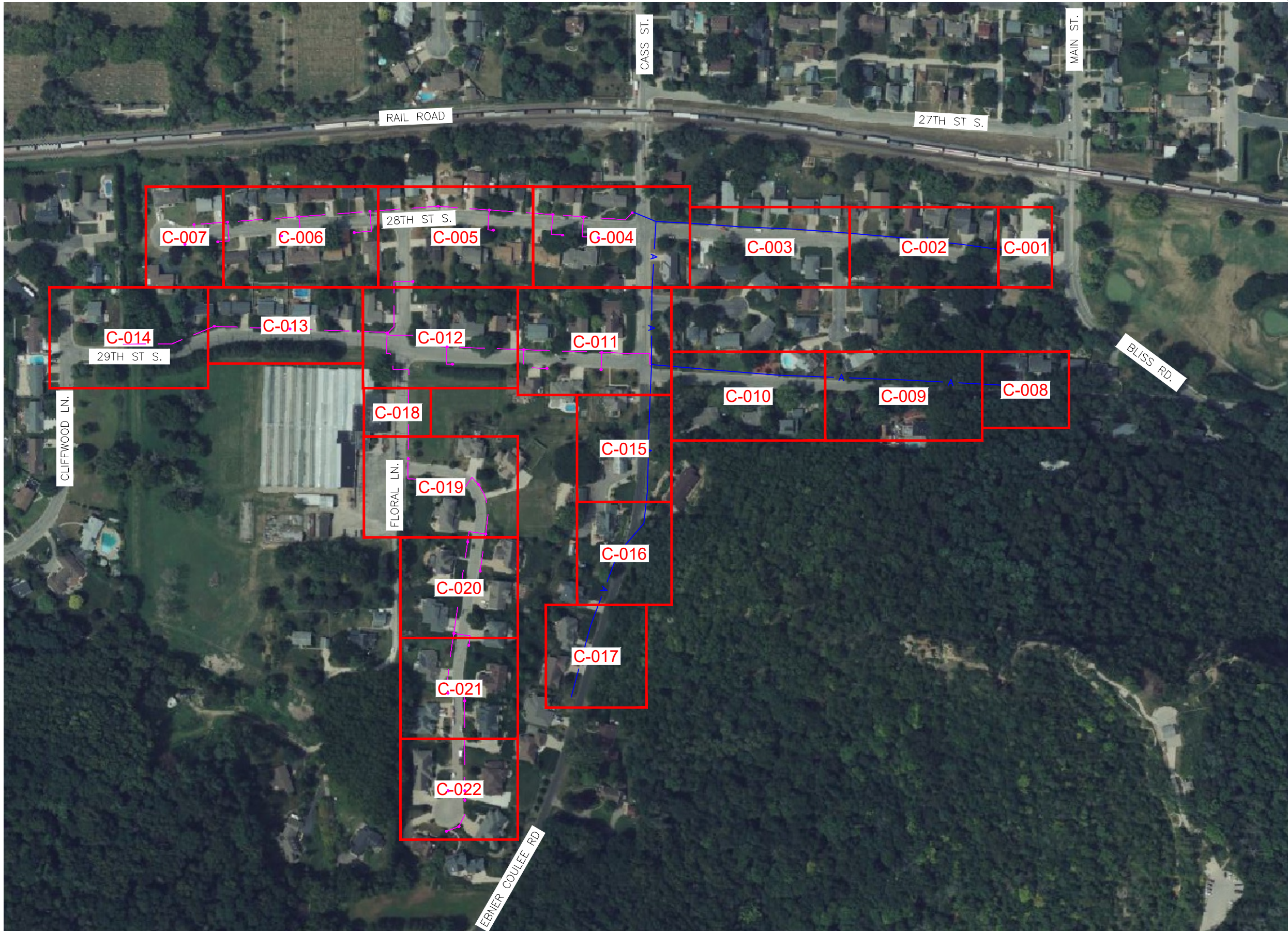
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SHEET TITLE
MAP

GRID NUMBER

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MAP-1



PLANSET

11'x17' SCALE: NTS
24'x36' SCALE: NTS

I

PROJECT# 2023.0119.0002



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SHEET SCALE

1" = 30'-0"

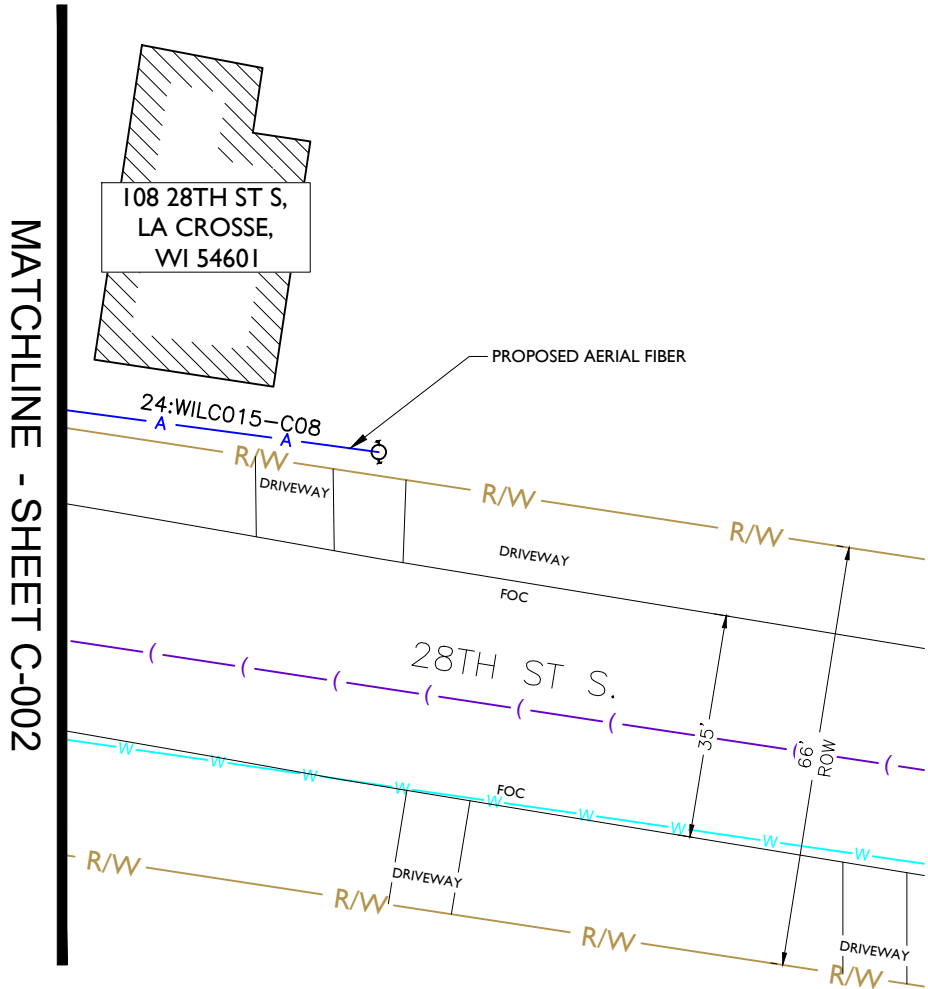
SHEET TITLE

DESIGN LAYOUT

GRID NUMBER

SHEET NUMBER

C-001



- NOTE:
- PROPOSED CONDUIT SHALL AVOID EXISTING SEEPAGE BEDS
 - BURY AT 24" MIN. UNDER SOFT SURFACE-BURY AT 36" MIN. UNDER HARD SURFACE
 - MAINTAIN 1' FROM BACK OF SIDEWALK, WHEN APPLICABLE.

- NOTE:
- METRONET WILL MAINTAIN 5' CLEARANCE FROM EXISTING WATER INLETS, MANHOLES, VALVES, AND FIRE HYDRANTS & 7.5' CLEARANCE FROM STORMWATER MANHOLES AND CATCH BASINS.





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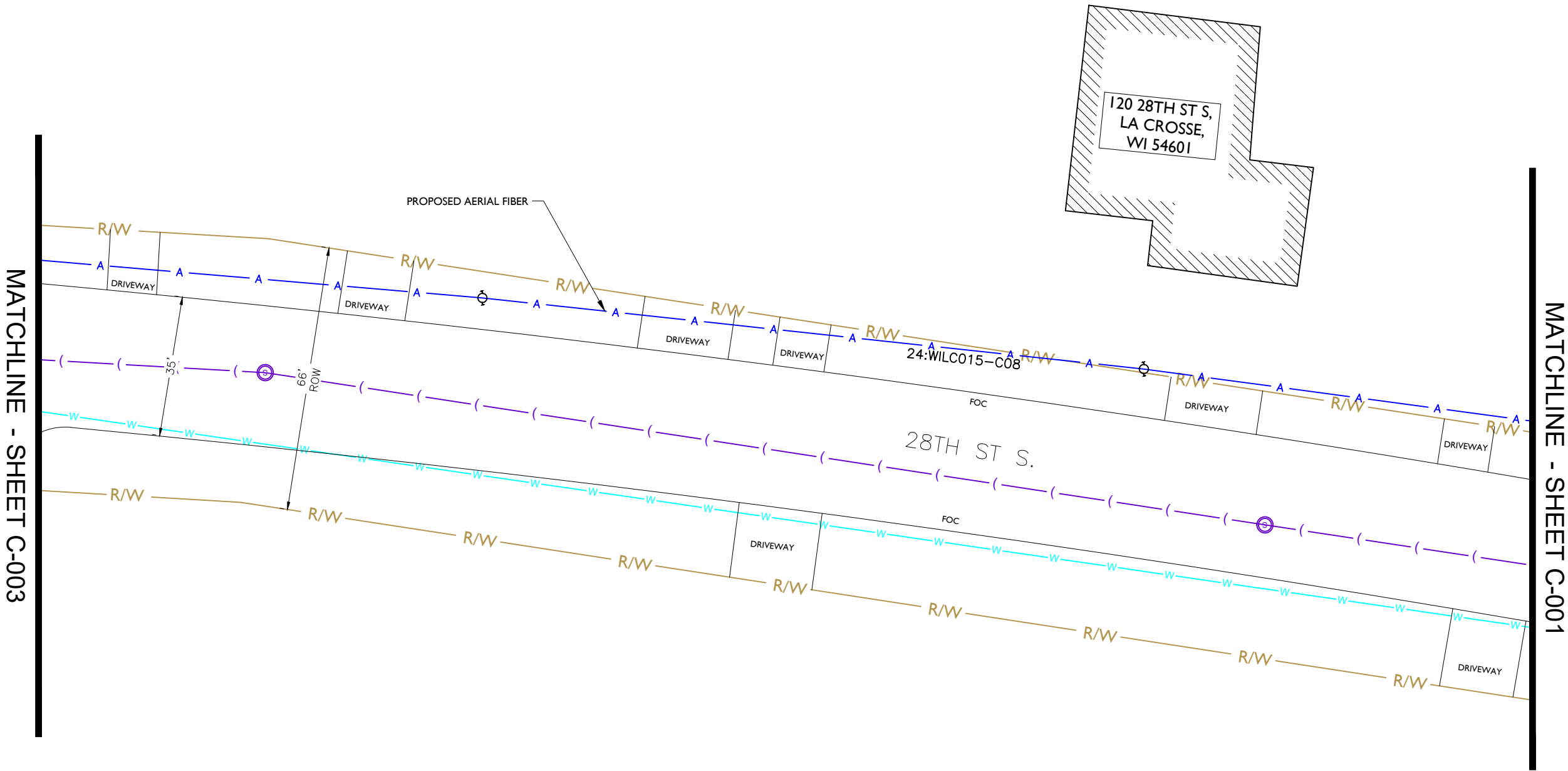
PROJECT AREA
LACROSSE, WI

SHEET SCALE
1" = 30'-0"

SHEET TITLE
DESIGN LAYOUT

GRID NUMBER

SHEET NUMBER
C-002

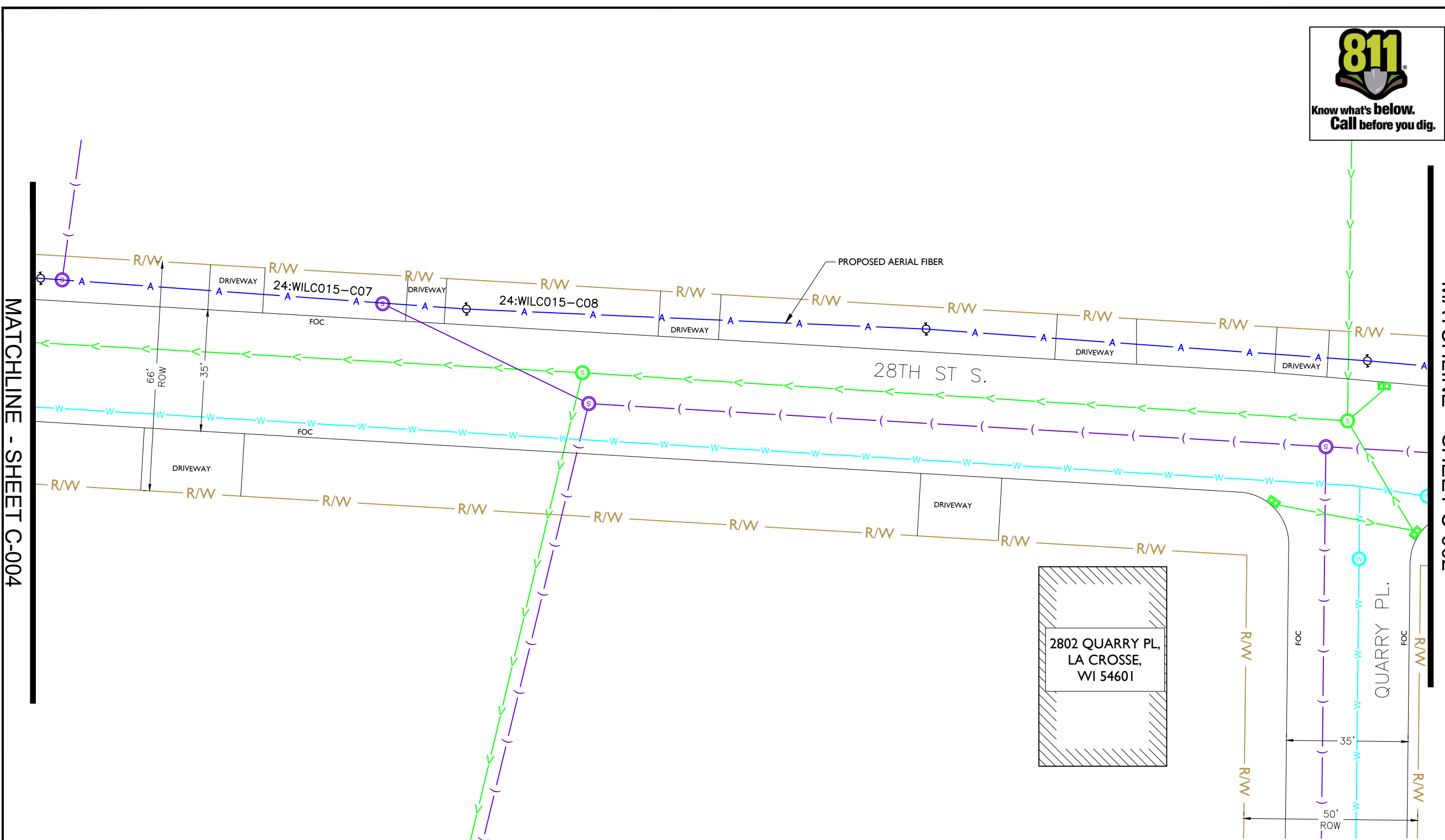


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NOTE:

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TASK NAME
WILC015-U-S1

TASK DESCRIPTION
FIBER OPTIC CONDUIT PLACEMENT

PROJECT AREA
LACROSSE, WI

SHEET SCALE
1" = 30'-0"

SHEET TITLE
DESIGN LAYOUT

GRID NUMBER

SHEET NUMBER
C-003

MATCHLINE - SHEET C-004

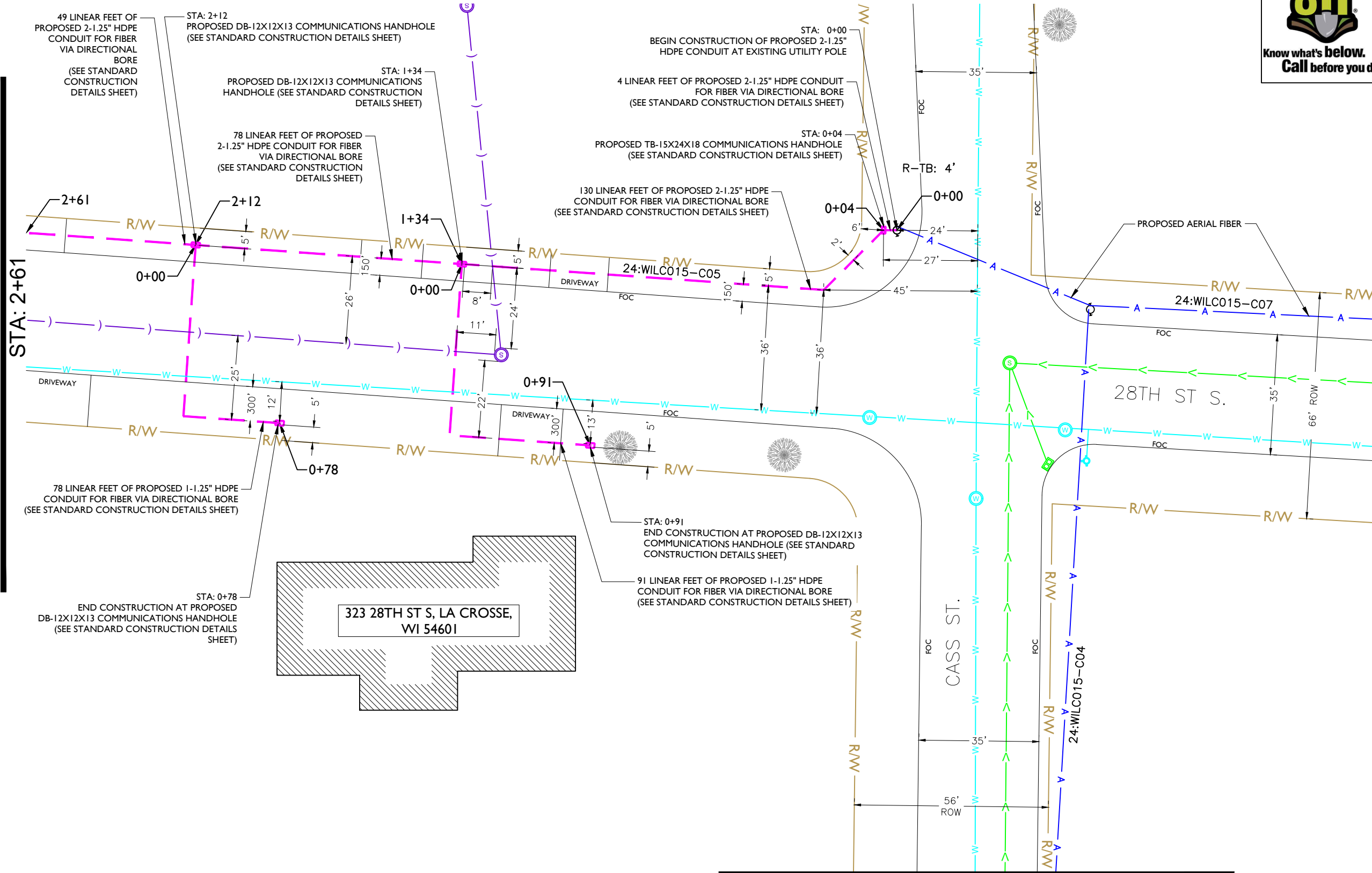
MATCHLINE - SHEET C-002

NOTE:
• PROPOSED CONDUIT SHALL AVOID EXISTING SEEPAGE BEDS
• BURY AT 24" MIN. UNDER SOFT SURFACE-BURY AT 36" MIN. UNDER HARD SURFACE
• MAINTAIN 1' FROM BACK OF SIDEWALK, WHEN APPLICABLE.

NOTE:
METRONET WILL MAINTAIN 5' CLEARANCE FROM EXISTING WATER INLETS, MANHOLES, VALVES, AND FIRE HYDRANTS & 7.5' CLEARANCE FROM STORMWATER MANHOLES AND CATCH BASINS.



MATCHLINE - SHEET C-005



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www.fullerton-us.com

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C	05/30/24	REVISED	JF

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TASK NAME
WILC015-U-S1

TASK DESCRIPTION
FIBER OPTIC CONDUIT PLACEMENT

PROJECT AREA
LACROSSE, WI

SHEET SCALE
1" = 30'-0"

SHEET TITLE
DESIGN LAYOUT

GRID NUMBER

SHEET NUMBER
C-004

NOTE:
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• MAINTAIN 1' FROM BACK OF SIDEWALK, WHEN APPLICABLE.

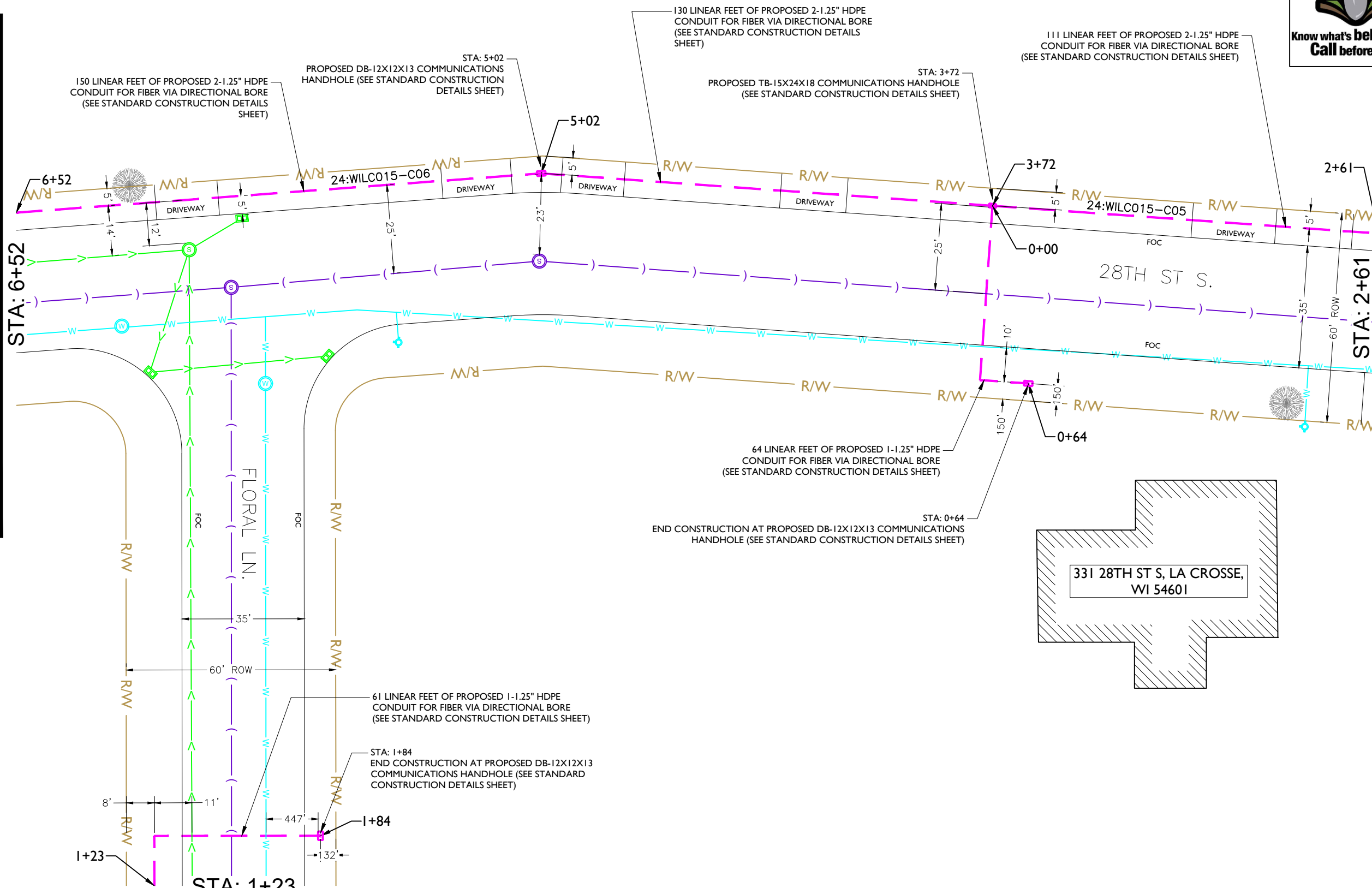
NOTE:
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MATCHLINE - SHEET C-003

MATCHLINE - SHEET C-0014

MATCHLINE - SHEET C-006



MATCHLINE - SHEET C-0012

NOTE:

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TASK NAME

WILC015-U-S1

TASK DESCRIPTION
FIBER OPTIC CONDUIT PLACEMENT

PROJECT AREA

LACROSSE, WI

SHEET SCALE

$$1'' = 30'-0''$$

SHEET TITLE

DESIGN LAYOUT

GRID NUMBER

SHEET NUMBER

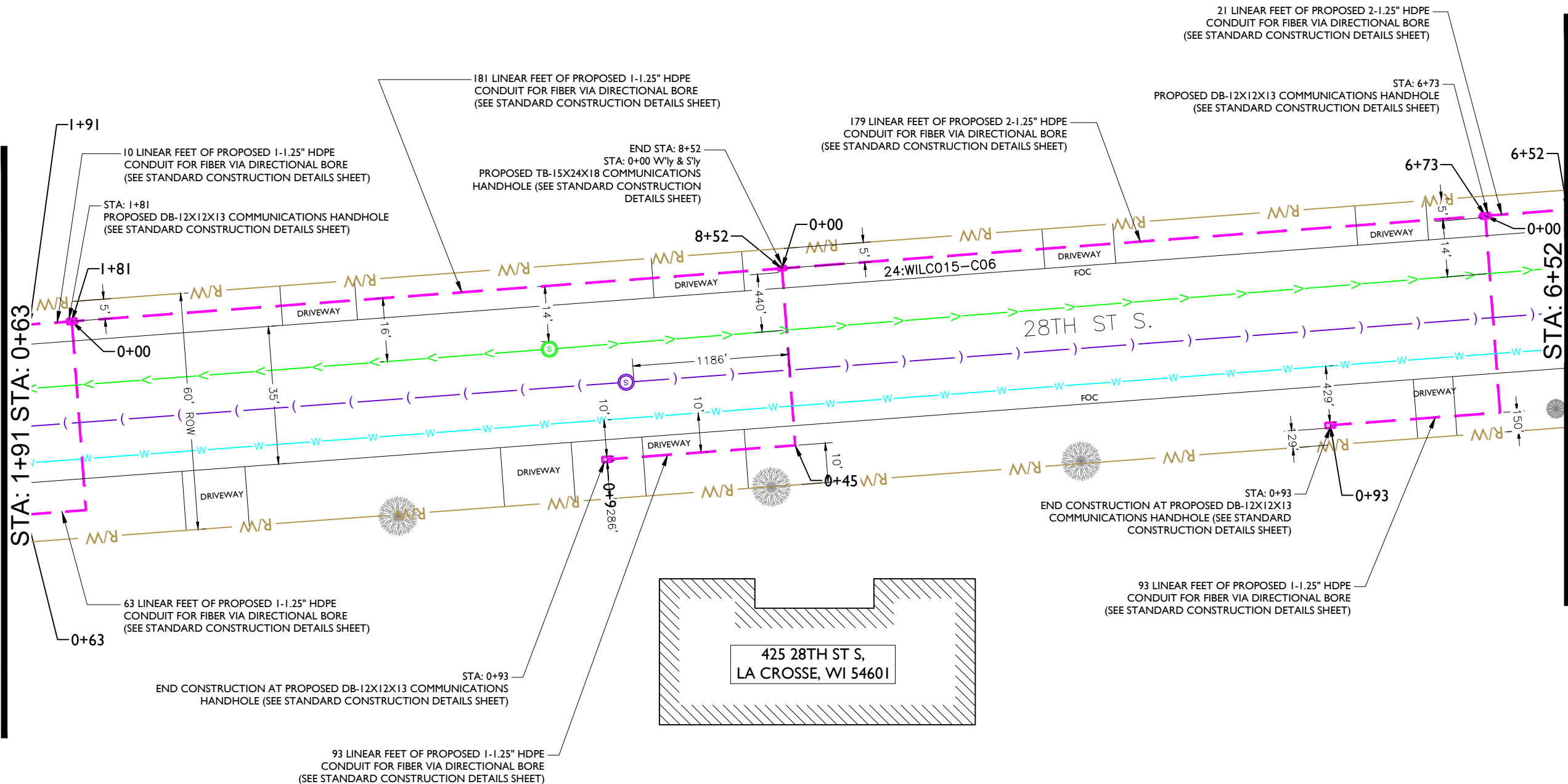
C-005

PROJECT# 2023.0119.0002

MATCHLINE - SHEET C-007

STA: 1+91 STA: 0+63

MATCHLINE - SHEET C-005



- NOTE:
- PROPOSED CONDUIT SHALL AVOID EXISTING SEEPAGE BEDS
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TASK NAME
WILC015-U-S1

TASK DESCRIPTION
FIBER OPTIC CONDUIT PLACEMENT

PROJECT AREA
LACROSSE, WI

SHEET SCALE
1" = 30'-0"

SHEET TITLE
DESIGN LAYOUT

GRID NUMBER
C-006



REV	DATE	DESCRIPTION	
A	03/19/24	ISSUED FOR REVIEW	0
B	05/10/24	REVISED	0
C	05/30/24	REVISED	0

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THE REQUIREMENTS OF ALL APPLICABLE CODES.

TASK NAME

WILC015-U-S1

TASK DESCRIPTION	
------------------	--

FIBER OPTIC CONDUIT PLACEMENT

PROJECT AREA

LACROSSE, WI

SHEET SCALE

$$1'' = 30'-0''$$

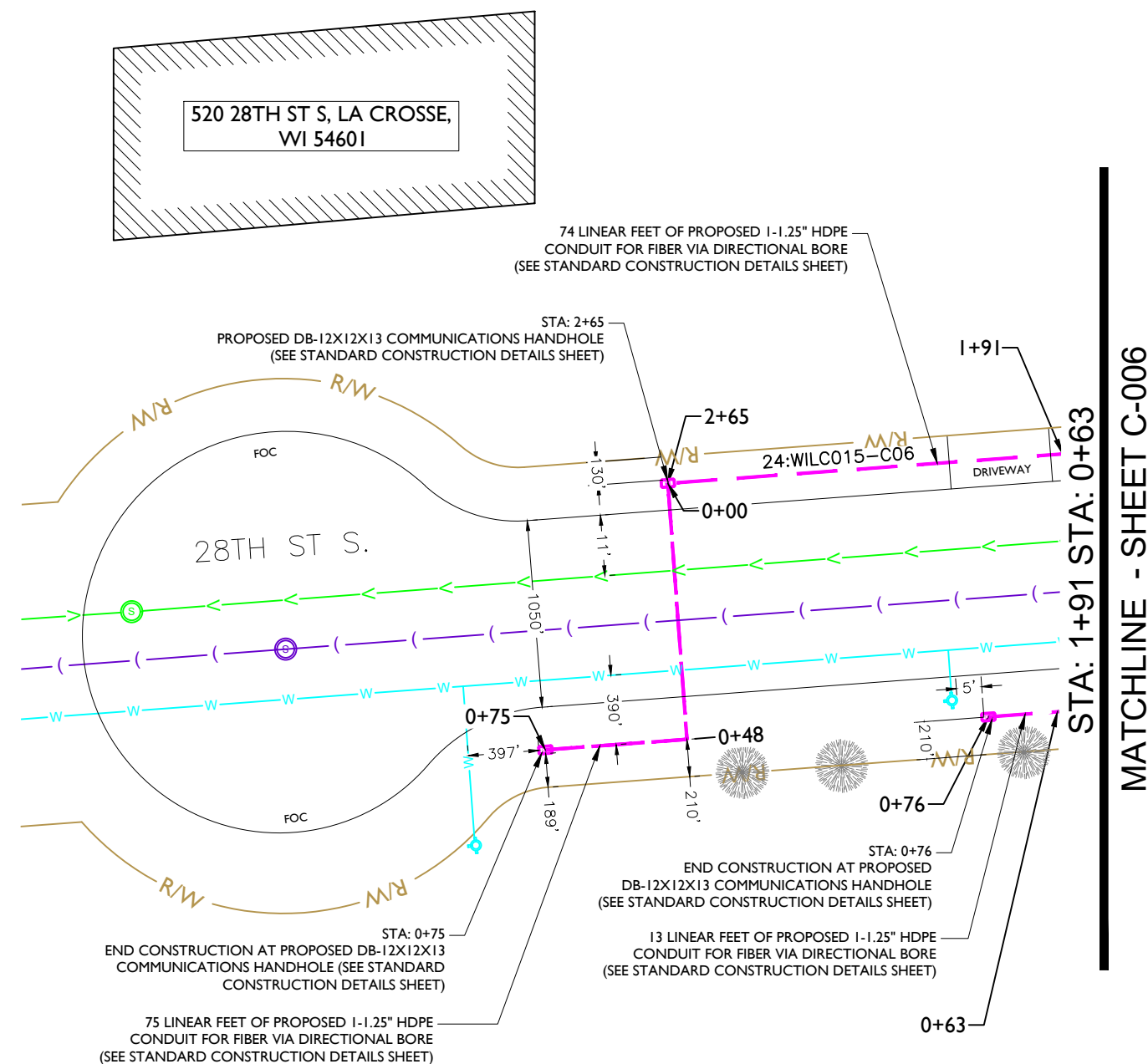
SHEET TITLE

DESIGN LAYOUT

GRID NUMBER

SHEET NUMBER

C-007



NOTE:

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NOTE:

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TASK NAME
WILC015-U-S1

TASK DESCRIPTION
**FIBER OPTIC CONDUIT
PLACEMENT**

PROJECT AREA
LACROSSE, WI

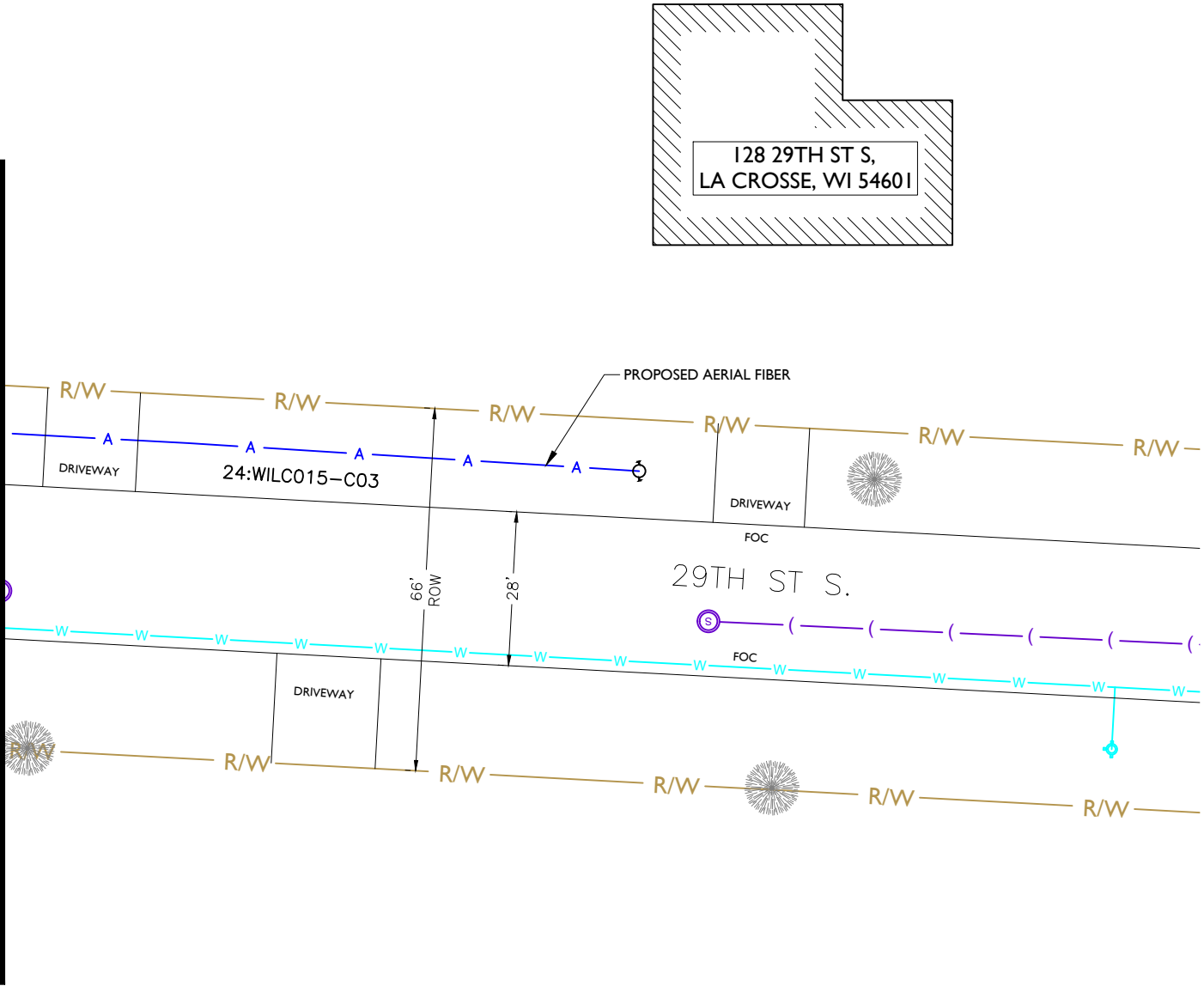
SHEET SCALE
1" = 30'-0"

SHEET TITLE
DESIGN LAYOUT

GRID NUMBER

SHEET NUMBER
C-008

MATCHLINE - SHEET C-009

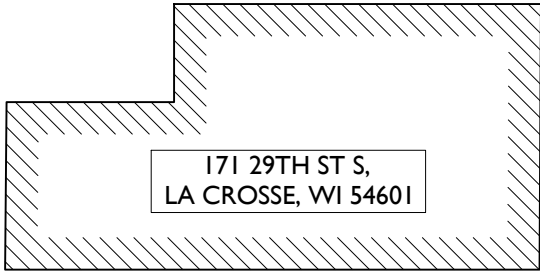
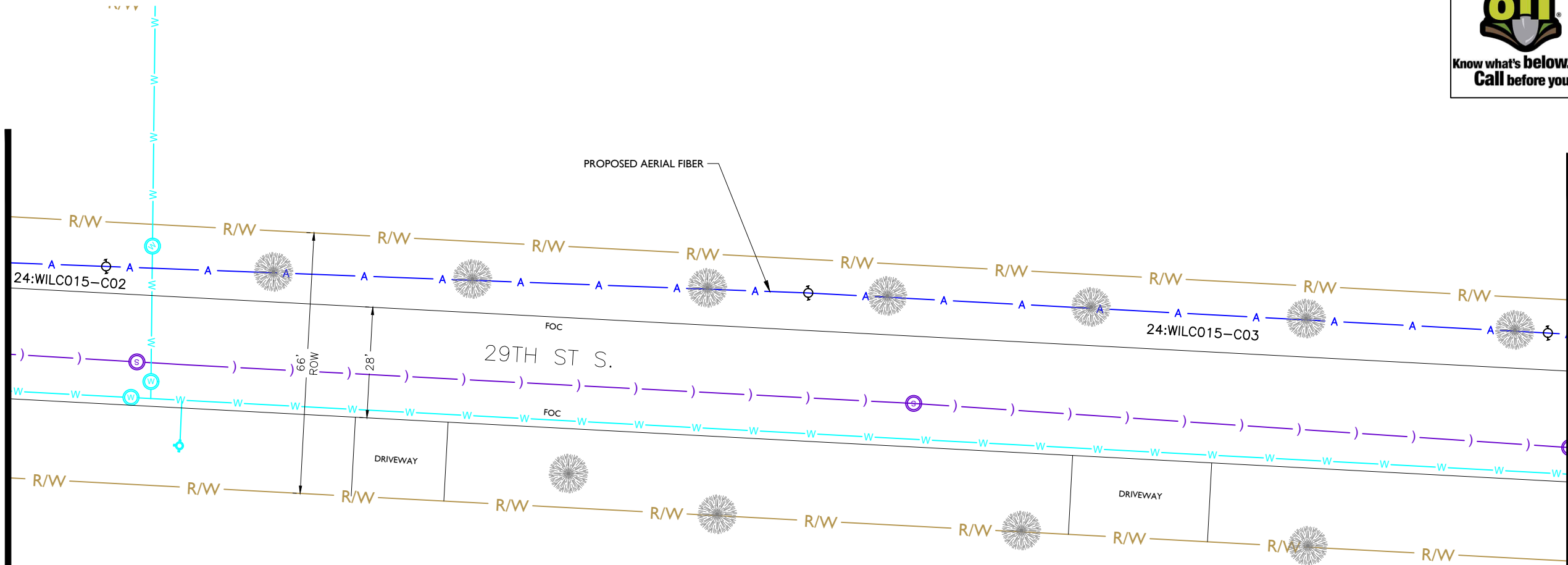


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 - MAINTAIN 1' FROM BACK OF SIDEWALK, WHEN APPLICABLE.

- NOTE:
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MATCHLINE - SHEET C-0010



NOTE:

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TASK NAME
WILC015-U-S1

TASK DESCRIPTION
FIBER OPTIC CONDUIT PLACEMENT

PROJECT AREA
LACROSSE, WI

SHEET SCALE
1" = 30'-0"

SHEET TITLE
DESIGN LAYOUT

GRID NUMBER
C-009



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TASK NAME
WILC015-U-S1

TASK DESCRIPTION
**FIBER OPTIC CONDUIT
PLACEMENT**

PROJECT AREA
LACROSSE, WI

SHEET SCALE
1" = 30'-0"

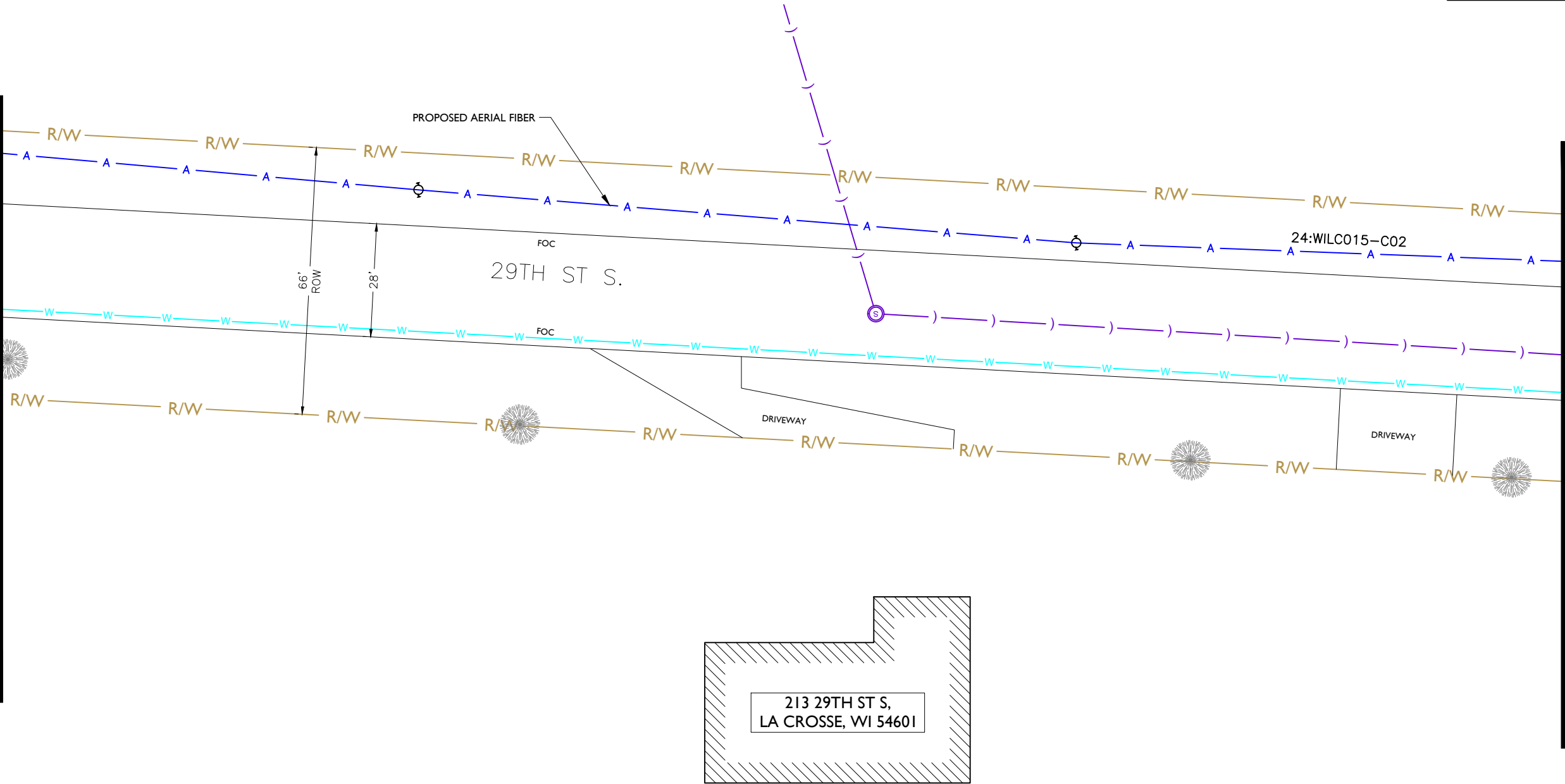
SHEET TITLE
DESIGN LAYOUT

GRID NUMBER

SHEET NUMBER
C-010

MATCHLINE - SHEET C-011

MATCHLINE - SHEET C-009



NOTE:
• PROPOSED CONDUIT SHALL AVOID EXISTING SEEPAGE BEDS
• BURY AT 24" MIN. UNDER SOFT SURFACE-BURY AT 36" MIN. UNDER HARD SURFACE
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MATCHLINE - SHEET C-004



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TASK NAME
WILC015-U-S1

TASK DESCRIPTION
FIBER OPTIC CONDUIT PLACEMENT

PROJECT AREA
LACROSSE, WI

SHEET SCALE
1" = 30'-0"

SHEET TITLE
DESIGN LAYOUT

GRID NUMBER

SHEET NUMBER
C-011

MATCHLINE - SHEET C-012

MATCHLINE - SHEET C-010

MATCHLINE - SHEET C-0015

NOTE:
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MATCHLINE - SHEET C-005



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TASK NAME
WILC015-U-S1

TASK DESCRIPTION
FIBER OPTIC CONDUIT PLACEMENT

PROJECT AREA
LACROSSE, WI

SHEET SCALE
1" = 30'-0"

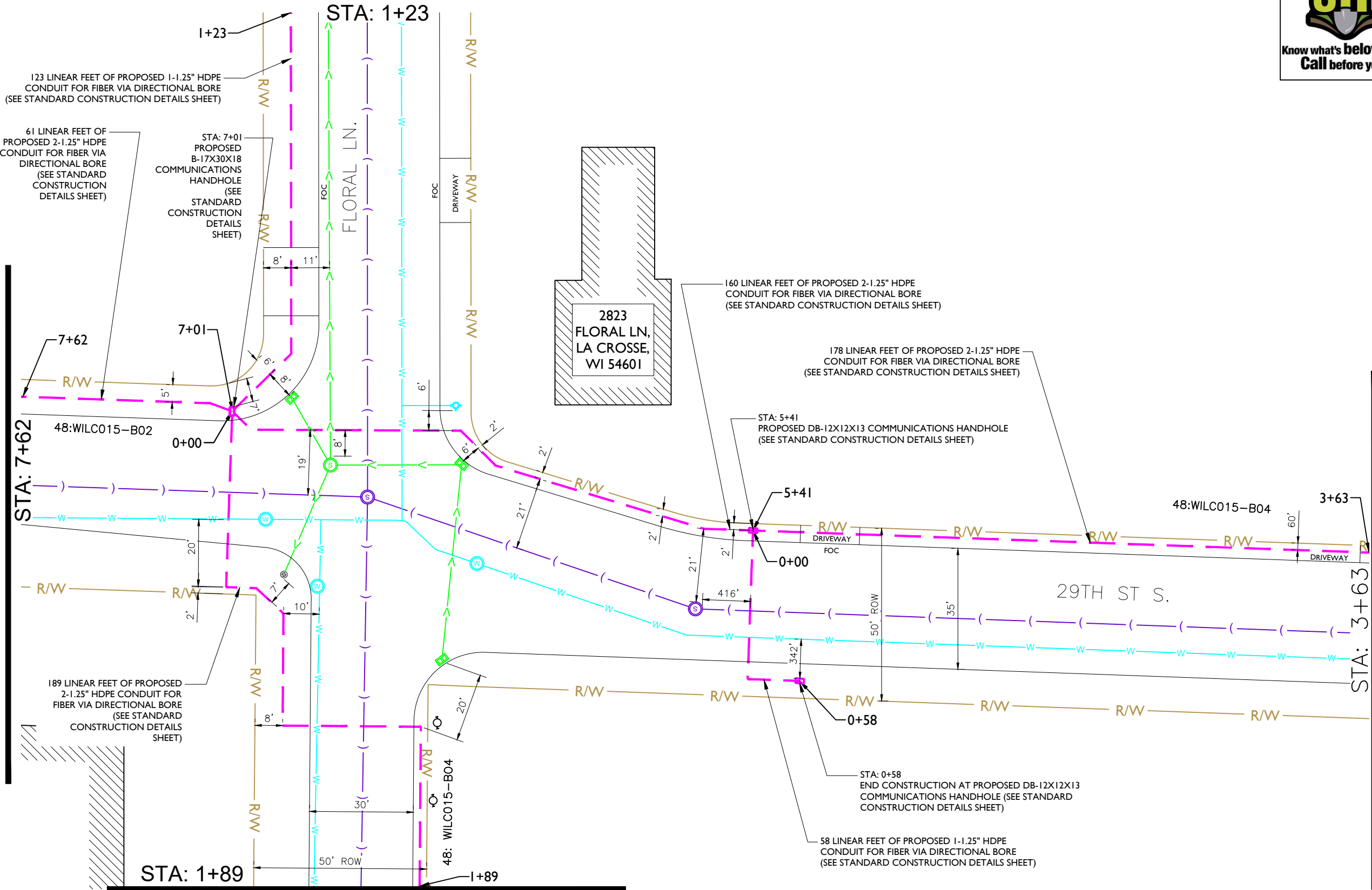
SHEET TITLE
DESIGN LAYOUT

GRID NUMBER

SHEET NUMBER
C-012

MATCHLINE - SHEET C-013

MATCHLINE - SHEET C-011



NOTE:
• PROPOSED CONDUIT SHALL AVOID EXISTING SEEPAGE BEDS
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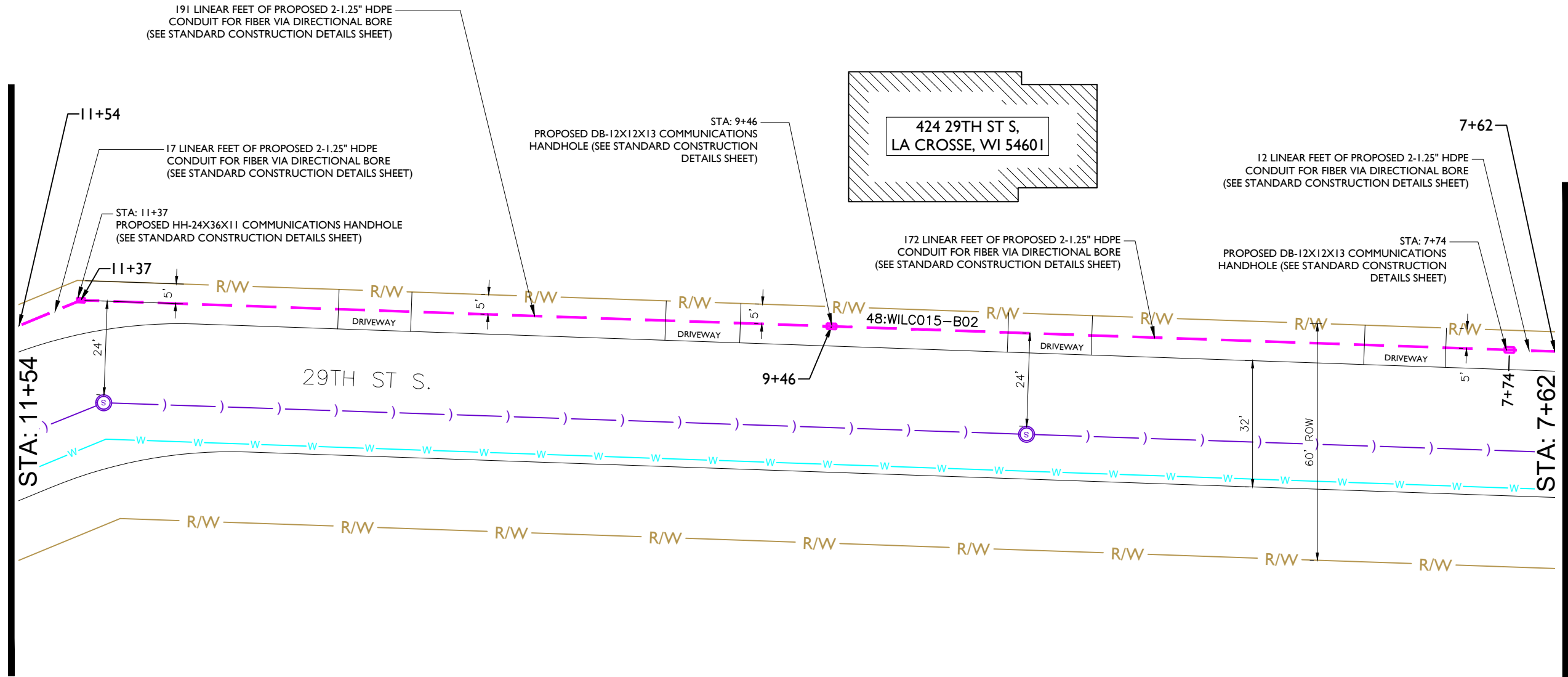
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WILC015-U-S1
TASK DESCRIPTION
FIBER OPTIC CONDUIT PLACEMENT
PROJECT AREA
LACROSSE, WI
SHEET SCALE
1" = 30'-0"
SHEET TITLE
DESIGN LAYOUT
GRID NUMBER
SHEET NUMBER
C-013

MATCHLINE - SHEET C-014



MATCHLINE - SHEET C-012

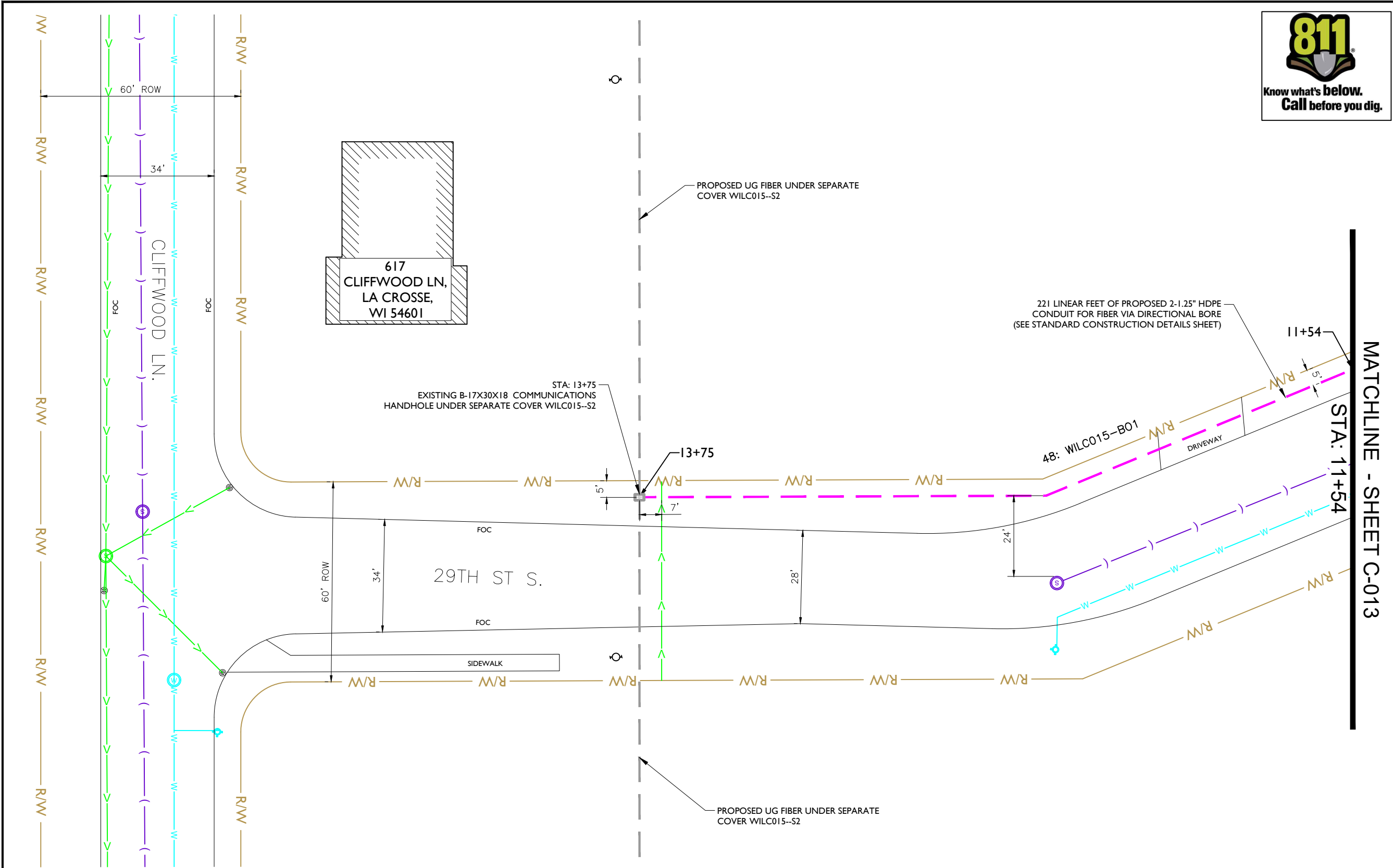
NOTE:

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TASK NAME
WILC015-U-S1

TASK DESCRIPTION
FIBER OPTIC CONDUIT PLACEMENT

PROJECT AREA
LACROSSE, WI

SHEET SCALE
1" = 30'-0"

SHEET TITLE
DESIGN LAYOUT

GRID NUMBER

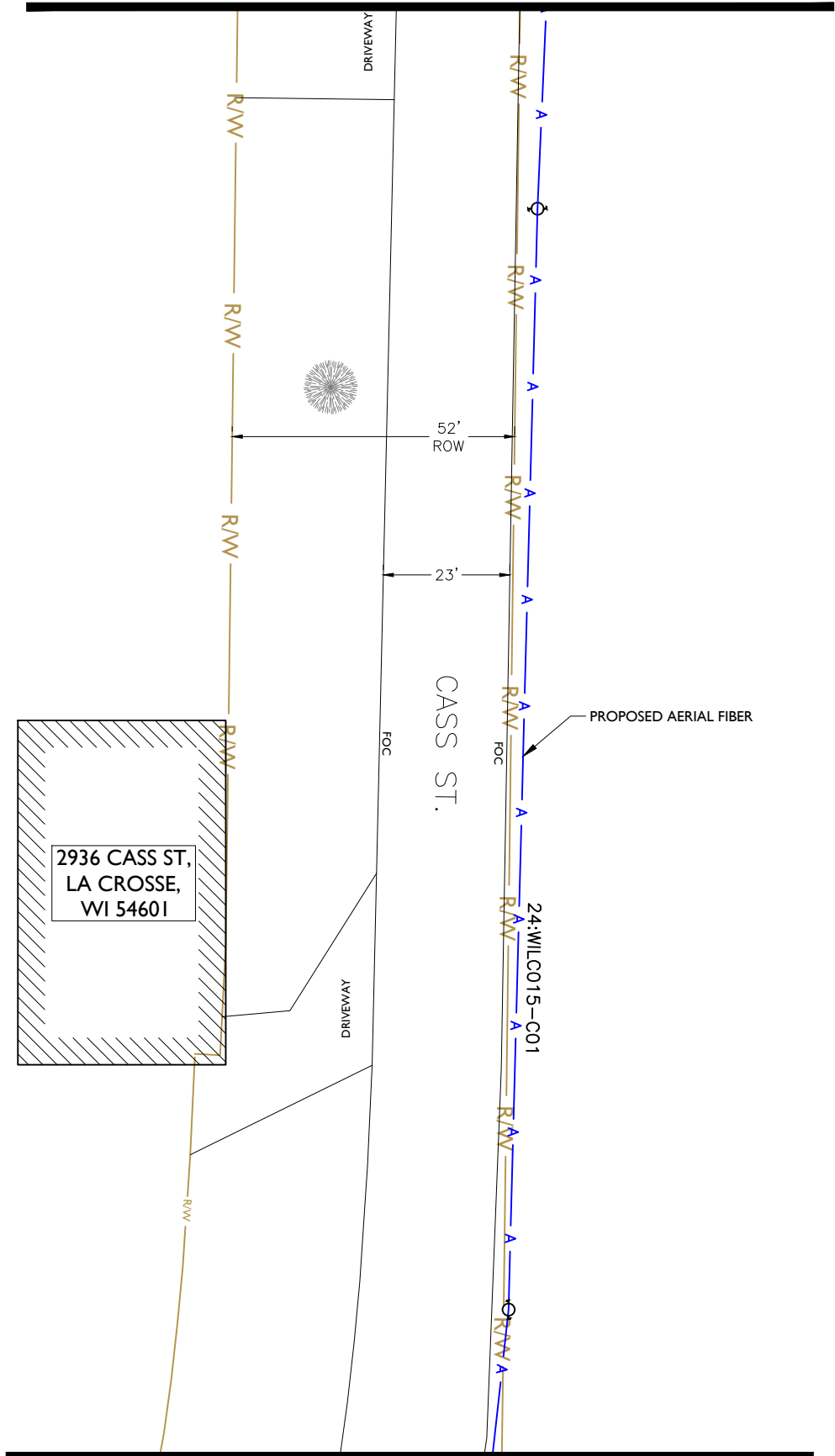
SHEET NUMBER
C-014

NOTE:
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MATCHLINE - SHEET C-011



MATCHLINE - SHEET C-016

- NOTE:
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TASK NAME
WILC015-U-S1

TASK DESCRIPTION
**FIBER OPTIC CONDUIT
PLACEMENT**

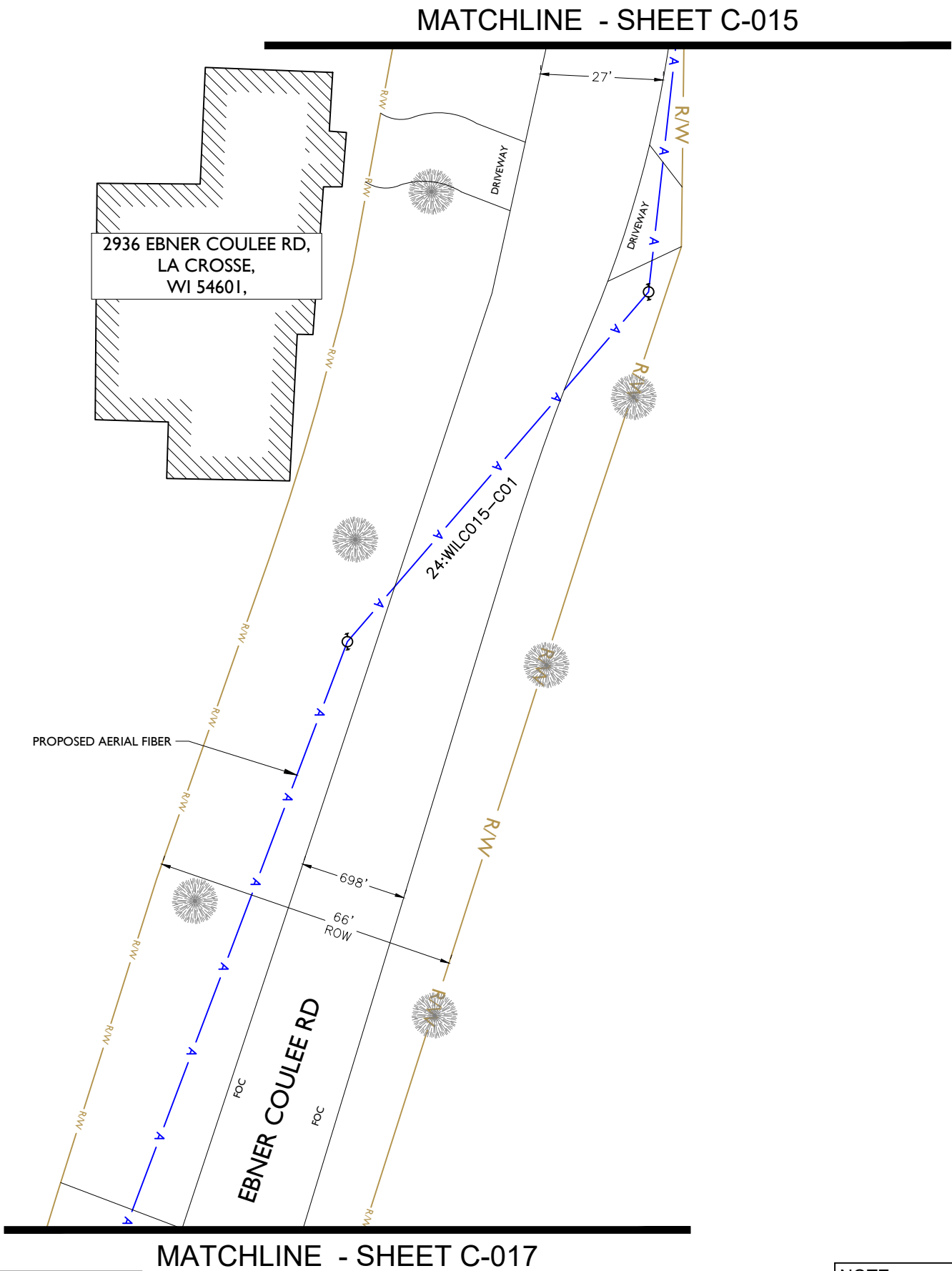
PROJECT AREA
LACROSSE, WI

SHEET SCALE
1" = 30'-0"

SHEET TITLE
DESIGN LAYOUT

GRID NUMBER
C-015





NOTE:

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TASK NAME

WILC015-U-S1

TASK DESCRIPTION

**FIBER OPTIC CONDUIT
PLACEMENT**

PROJECT AREA

LACROSSE, WI

SHEET SCALE

1" = 30'-0"

SHEET TITLE

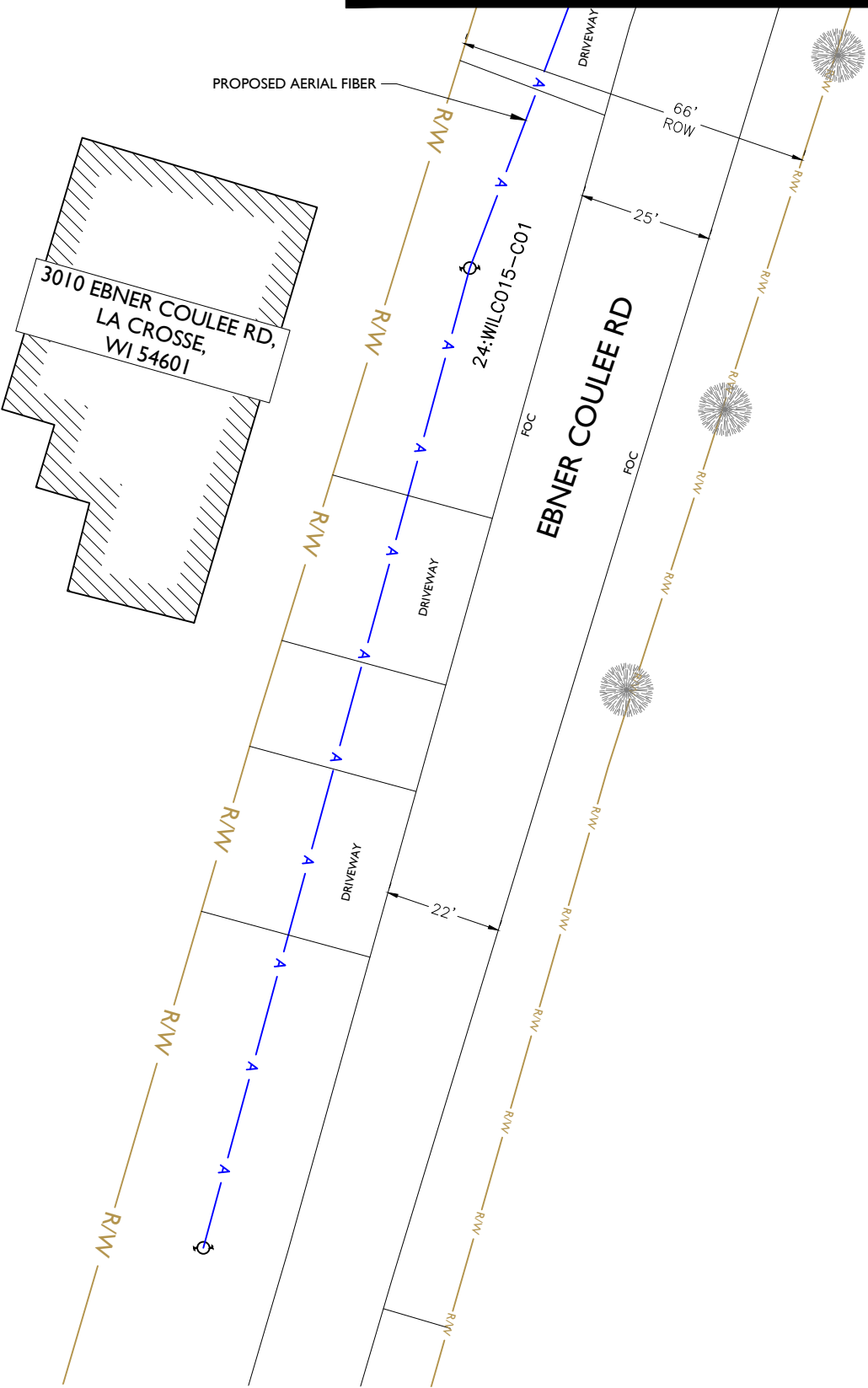
DESIGN LAYOUT

GRID NUMBER

SHEET NUMBER

C-016

MATCHLINE - SHEET C-016



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TASK NAME
WILC015-U-S1

TASK DESCRIPTION
**FIBER OPTIC CONDUIT
PLACEMENT**

PROJECT AREA
LACROSSE, WI

SHEET SCALE
1" = 30'-0"

SHEET TITLE
DESIGN LAYOUT

GRID NUMBER

SHEET NUMBER
C-017

NOTE:
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NOTE:
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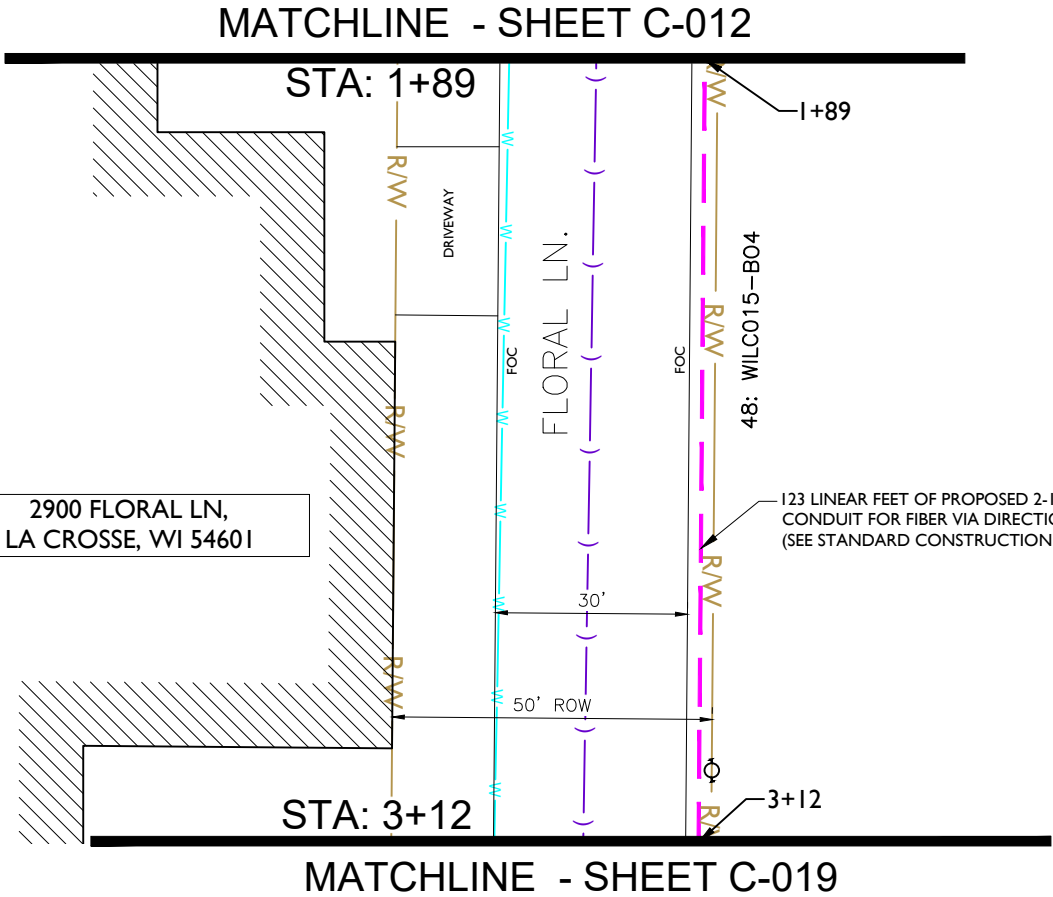




metronet™
3701 COMMUNICATIONS WAY
EVANSVILLE, IN, 47715



1100 E. WOODFIELD ROAD, SUITE 500
SCHAUMBURG, ILLINOIS 60173
TEL: 847-908-8400
COA# 3620-11
www.fullerton-us.com



- NOTE:
- PROPOSED CONDUIT SHALL AVOID EXISTING SEEPAGE BEDS
 - BURY AT 24" MIN. UNDER SOFT SURFACE-BURY AT 36" MIN. UNDER HARD SURFACE
 - MAINTAIN 1' FROM BACK OF SIDEWALK, WHEN APPLICABLE.

- NOTE:
- METRONET WILL MAINTAIN 5' CLEARANCE FROM EXISTING WATER INLETS, MANHOLES, VALVES, AND FIRE HYDRANTS & 7.5' CLEARANCE FROM STORMWATER MANHOLES AND CATCH BASINS.

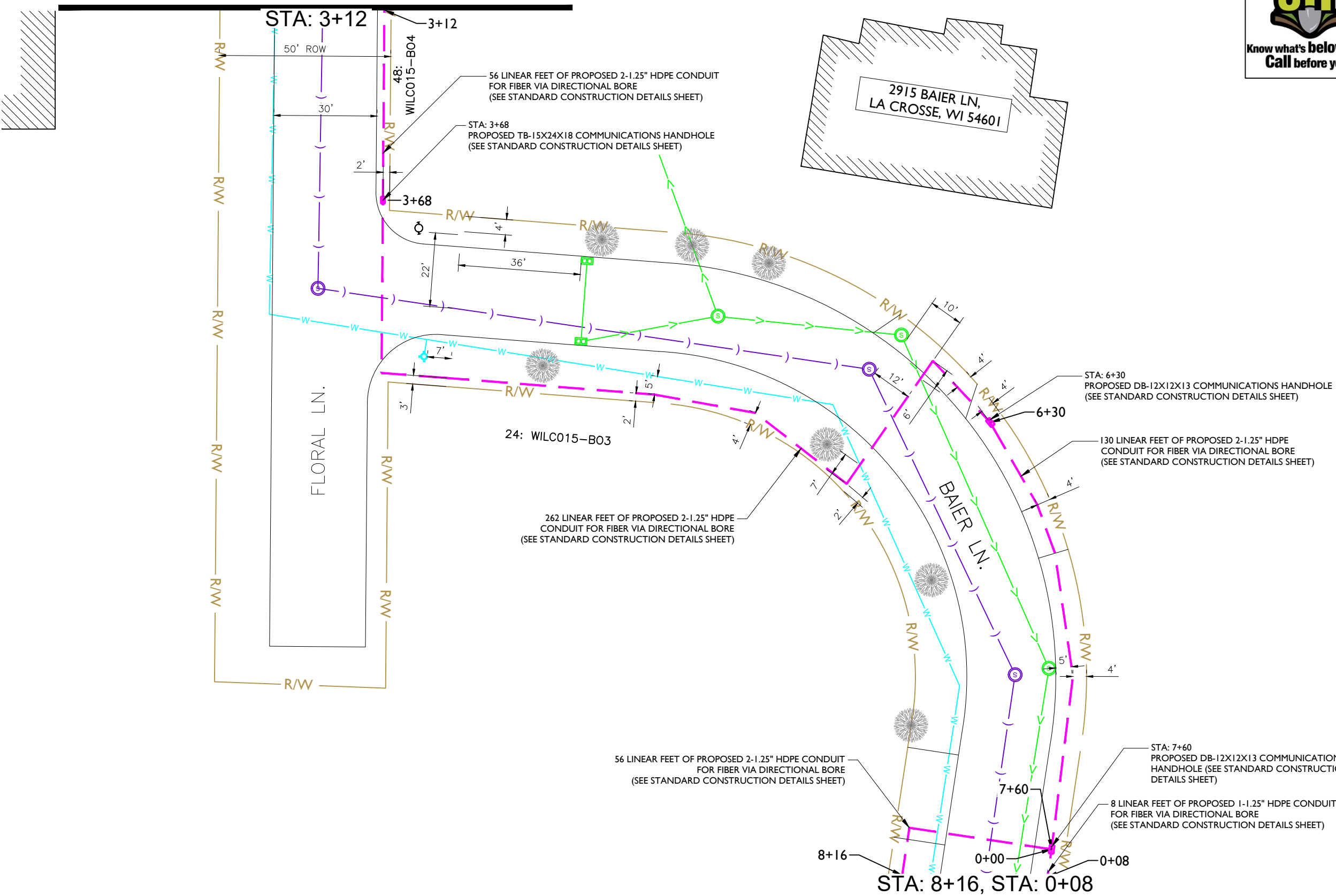


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B	05/10/24	REVISED	CS
C	05/30/24	REVISED	JF

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TASK NAME
WILC015-U-S1
TASK DESCRIPTION
FIBER OPTIC CONDUIT PLACEMENT
PROJECT AREA
LACROSSE, WI
SHEET SCALE
1" = 30'-0"
SHEET TITLE
DESIGN LAYOUT
GRID NUMBER
SHEET NUMBER
C-018

MATCHLINE - SHEET C-018



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TASK NAME
WILC015-U-S1

TASK DESCRIPTION
FIBER OPTIC CONDUIT PLACEMENT

PROJECT AREA
LACROSSE, WI

SHEET SCALE
1" = 30'-0"

SHEET TITLE
DESIGN LAYOUT

GRID NUMBER

SHEET NUMBER
C-019

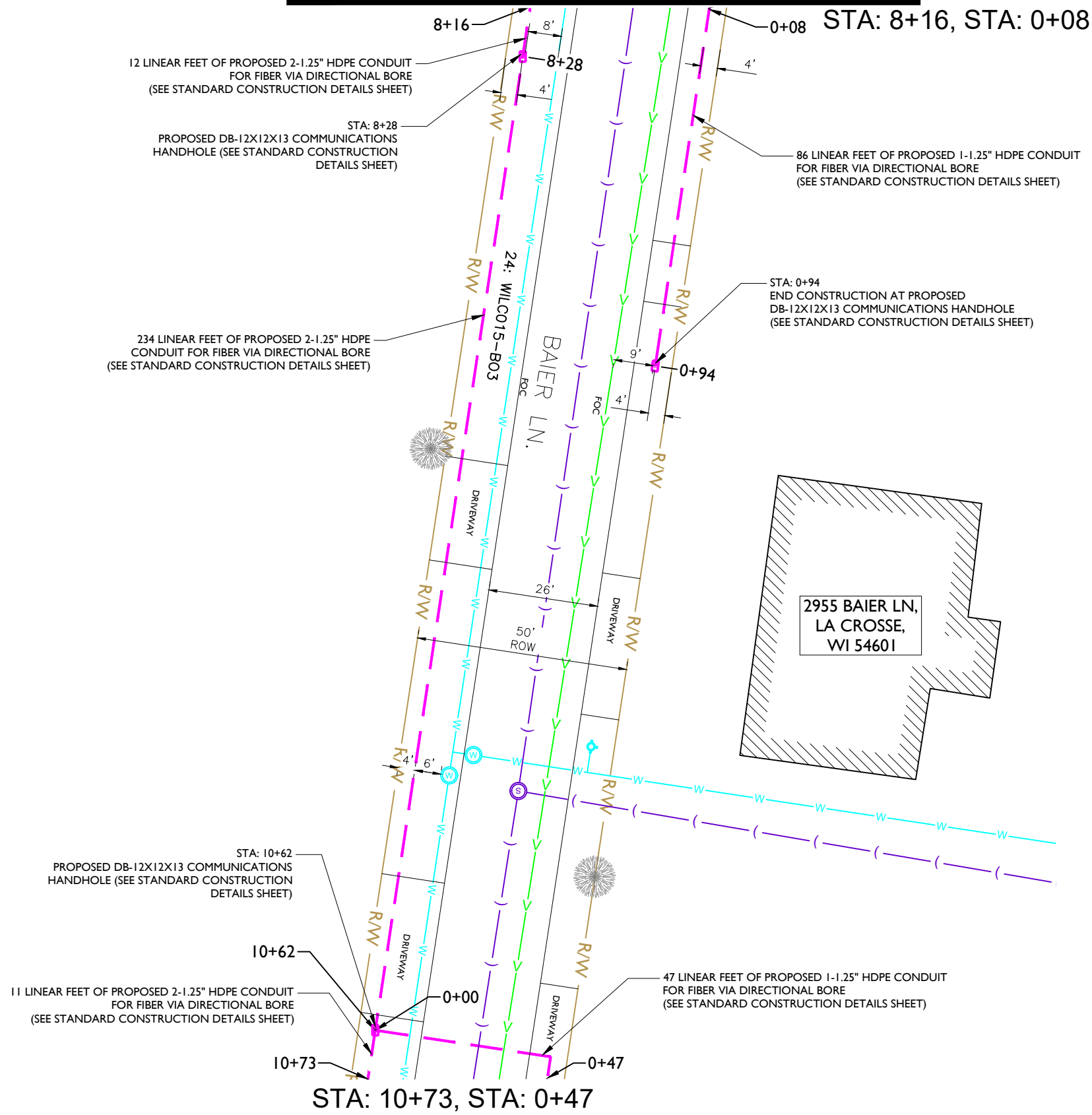
NOTE:
• PROPOSED CONDUIT SHALL AVOID EXISTING SEEPAGE BEDS
• BURY AT 24" MIN. UNDER SOFT SURFACE-BURY AT 36" MIN. UNDER HARD SURFACE
• MAINTAIN 1' FROM BACK OF SIDEWALK, WHEN APPLICABLE.

NOTE:
METRONET WILL MAINTAIN 5' CLEARANCE FROM EXISTING WATER INLETS, MANHOLES, VALVES, AND FIRE HYDRANTS & 7.5' CLEARANCE FROM STORMWATER MANHOLES AND CATCH BASINS.

MATCHLINE - SHEET C-020



MATCHLINE - SHEET C-019



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TASK NAME

WILC015-U-S1

TASK DESCRIPTION

FIBER OPTIC CONDUIT
PLACEMENT

PROJECT AREA

LACROSSE, WI

SHEET SCALE

1" = 30'-0"

SHEET TITLE

DESIGN LAYOUT

GRID NUMBER

SHEET NUMBER

C-020

NOTE:

- PROPOSED CONDUIT SHALL AVOID EXISTING SEEPAGE BEDS
- BURY AT 24" MIN. UNDER SOFT SURFACE-BURY AT 36" MIN. UNDER HARD SURFACE
- MAINTAIN 1' FROM BACK OF SIDEWALK, WHEN APPLICABLE.

MATCHLINE - SHEET C-021

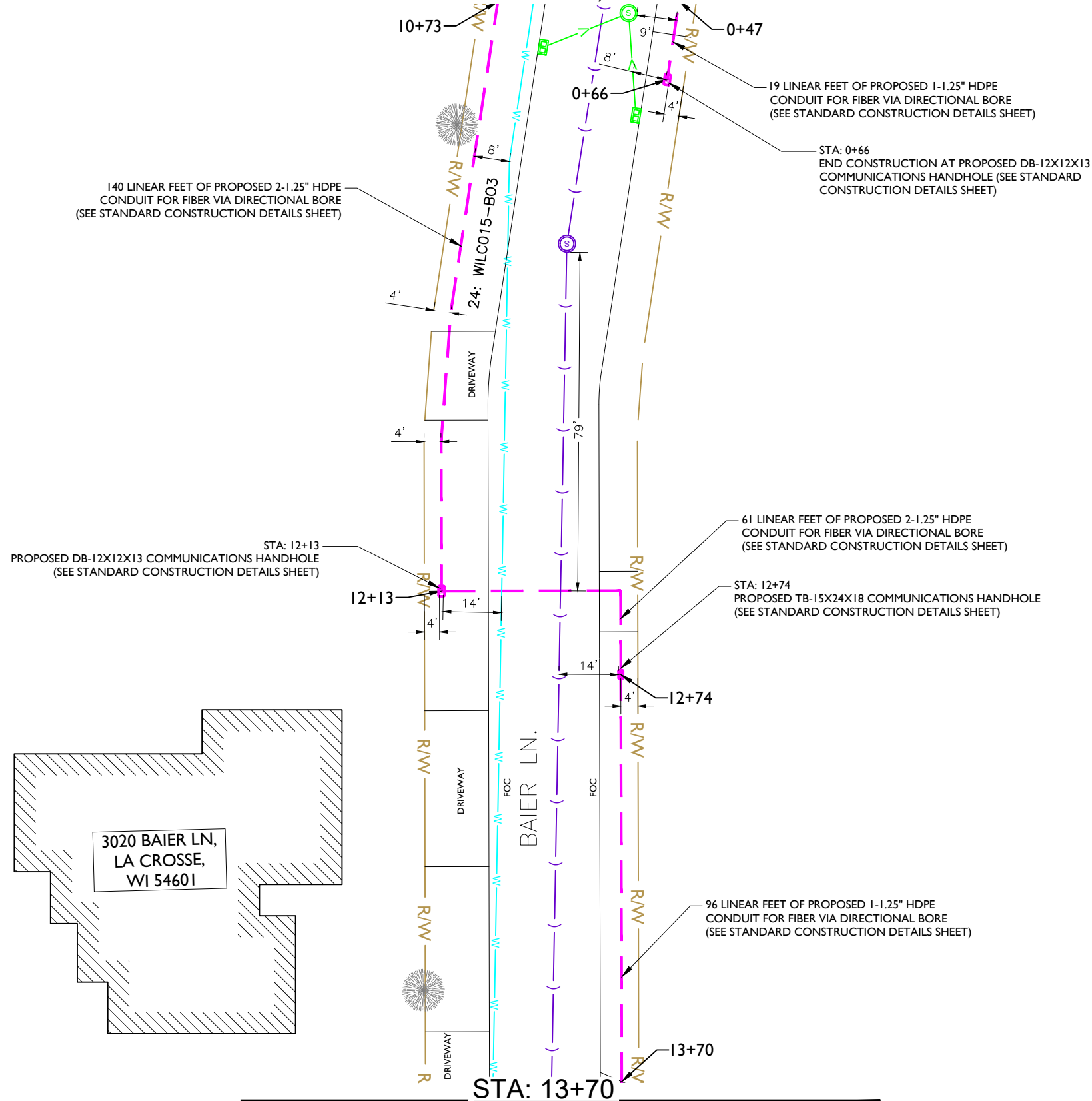
NOTE:

METRONET WILL MAINTAIN 5' CLEARANCE FROM EXISTING WATER INLETS, MANHOLES, VALVES, AND FIRE HYDRANTS & 7.5' CLEARANCE FROM STORMWATER MANHOLES AND CATCH BASINS.



MATCHLINE - SHEET C-020

STA: 10+73, STA: 0+47



MATCHLINE - SHEET C-022

NOTE:

- PROPOSED CONDUIT SHALL AVOID EXISTING SEEPAGE BEDS
- BURY AT 24" MIN. UNDER SOFT SURFACE-BURY AT 36" MIN. UNDER HARD SURFACE
- MAINTAIN 1' FROM BACK OF SIDEWALK, WHEN APPLICABLE.

NOTE:

METRONET WILL MAINTAIN 5' CLEARANCE FROM EXISTING WATER INLETS, MANHOLES, VALVES, AND FIRE HYDRANTS & 7.5' CLEARANCE FROM STORMWATER MANHOLES AND CATCH BASINS.



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TASK NAME

WILC015-U-S1

TASK DESCRIPTION

**FIBER OPTIC CONDUIT
PLACEMENT**

PROJECT AREA

LACROSSE, WI

SHEET SCALE

1" = 30'-0"

SHEET TITLE

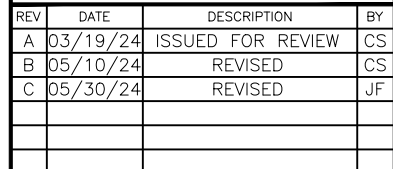
DESIGN LAYOUT

GRID NUMBER

SHEET NUMBER

C-021





TASK NAME

WILC015-U-S1

PROJECT AREA

LACROSSE, WI

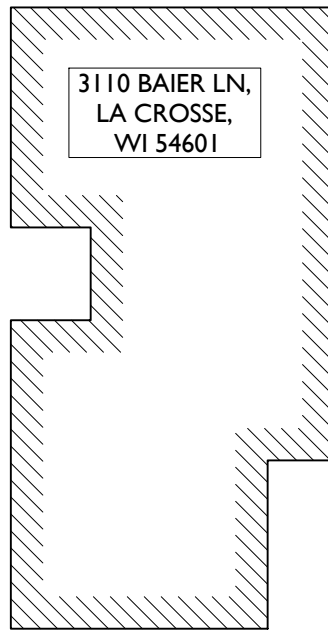
SHEET SCALE
1" = 30'-0"

SHEET TITLE
DESIGN LAYOUT

GRID NUMBER

SHEET NUMBER

C-022



- NOTE:
METRONET WILL MAINTAIN 5' CLEARANCE FROM EXISTING
WATER INLETS, MANHOLES, VALVES, AND FIRE HYDRANTS
& 7.5' CLEARANCE FROM STORMWATER MANHOLES AND
CATCH BASINS.

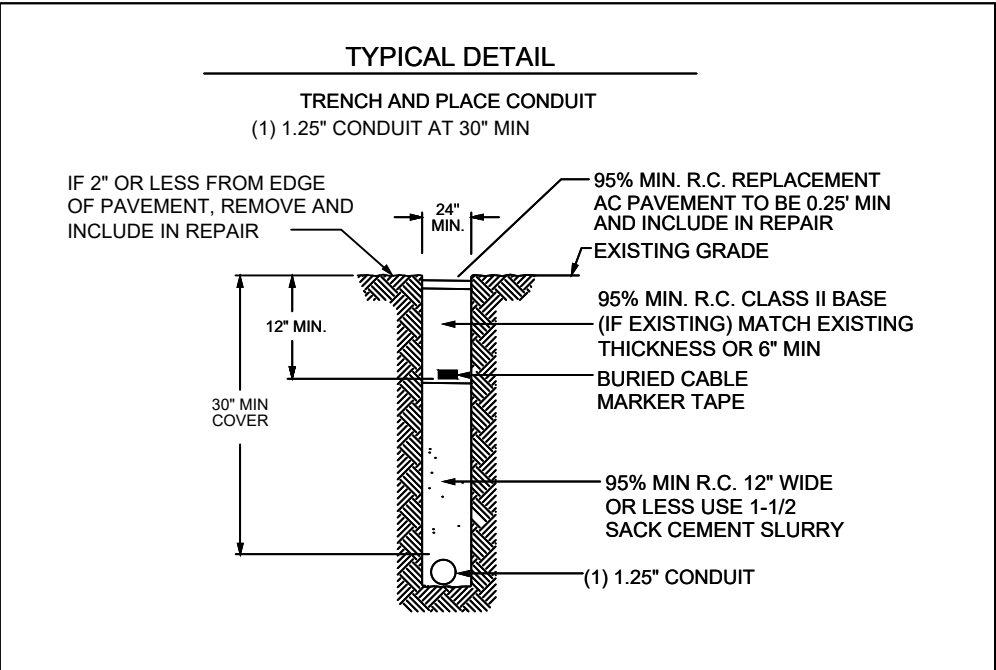
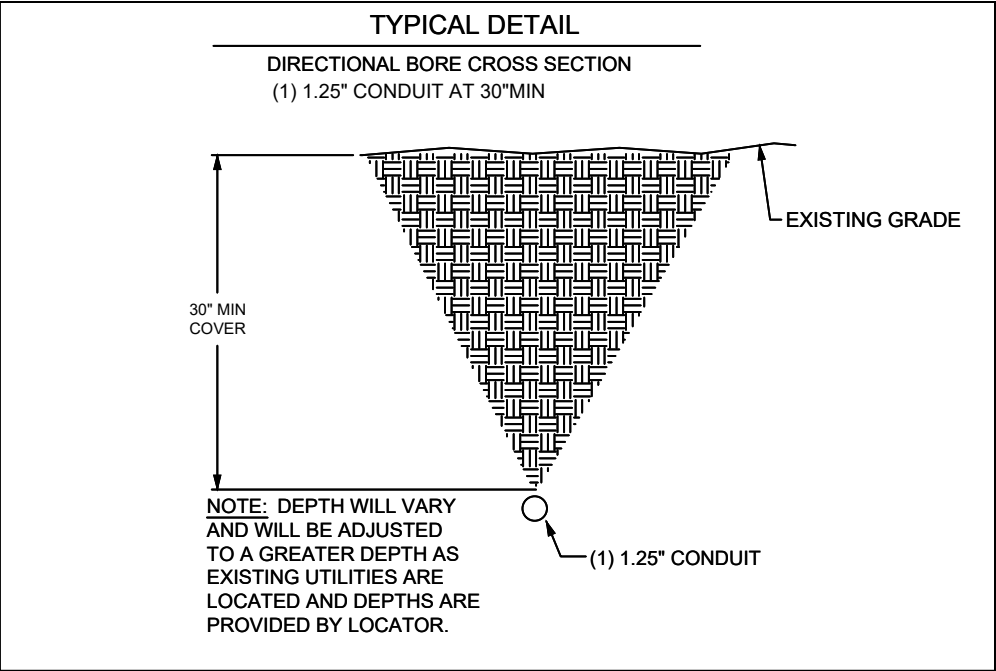


ADDITIONAL NOTES:

- 1. EXCEPT AS OTHERWISE NOTED, CONTRACTOR SHALL MAINTAIN A MINIMUM OF 24 INCHES OF SEPARATION FROM EXISTING UTILITIES.
- 2. CONTRACTOR SHALL POTHOLE EACH UTILITY TO DETERMINE SIZE, LOCATION, AND DEPTH PRIOR TO CROSSING.
- 3. CONTRACTOR IS CAUTIONED TO PROTECT SEWER MANHOLES, CATCH BASINS, LATERALS AND INLETS.
- 4. CONTRACTOR WILL PROVIDE BARRICADING TO INSURE CORRECT TRAFFIC CONTROL WHILE MAINTAINING VEHICULAR TRAFFIC AT ALL TIMES.
- 5. RESTORATION TO BE IN COMPLIANCE WITH APPLICABLE PERMITTING AGENCIES.
- 6. BONDING AND GROUNDING PER NESC.

PUBLIC UTILITY NOTE:

CONTRACTOR SHALL NOTIFY ALL PUBLIC UTILITY COMPANIES (GAS, ELECTRIC, TELEPHONE, SEWER, WATER, ETC) PRIOR TO COMMENCING ANY CONSTRUCTION. THESE COMPANIES WILL LOCATE, ON THE GROUND, THE LOCATION OF ALL CONDUITS, DUCTS, UNDERGROUND PIPING, ETC., ADJOINING & CROSSING PROPOSED CONSTRUCTION.



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TASK NAME
WILC015-U-S1

TASK DESCRIPTION
FIBER OPTIC CONDUIT
PLACEMENT

PROJECT AREA
LACROSSE, WI

SHEET SCALE
N.T.S.

SHEET TITLE
DETAILS

GRID NUMBER

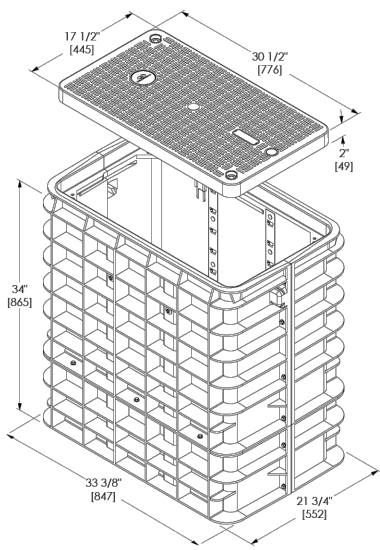
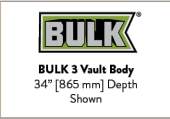
SHEET NUMBER
D-1

BULK 3 Series

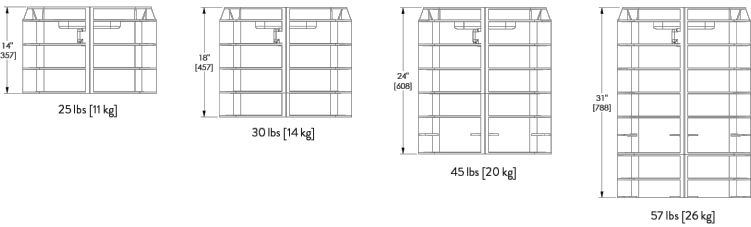
TECHNICAL SPECIFICATIONS

BODY SPECIFICATIONS

Cover Weight 26 lbs [12 kg]
Pit Weight 63 lbs [29 kg]
Assembled Weight 89 lbs [41 kg]



ADDITIONAL BODY DEPTHS

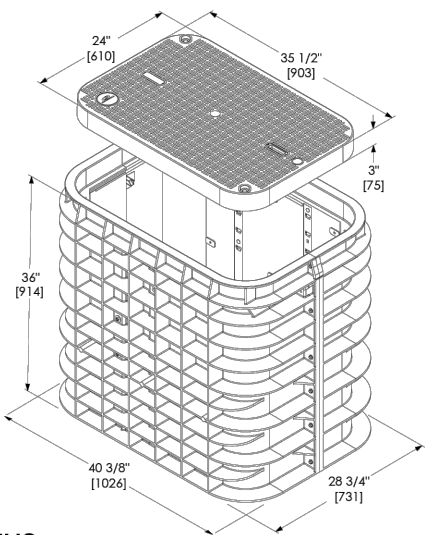
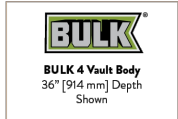


BULK 4 Series

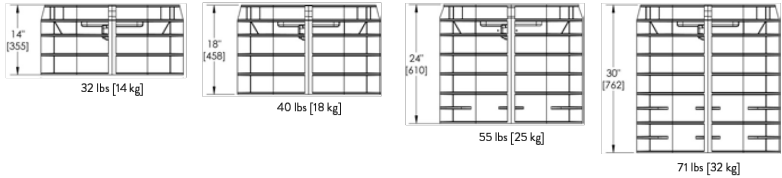
TECHNICAL SPECIFICATIONS

BODY SPECIFICATIONS

Cover Weight 50 lbs [23 kg]
Pit Weight 82 lbs [37 kg]
Assembled Weight 132 lbs [60 kg]



ADDITIONAL BODY DEPTHS

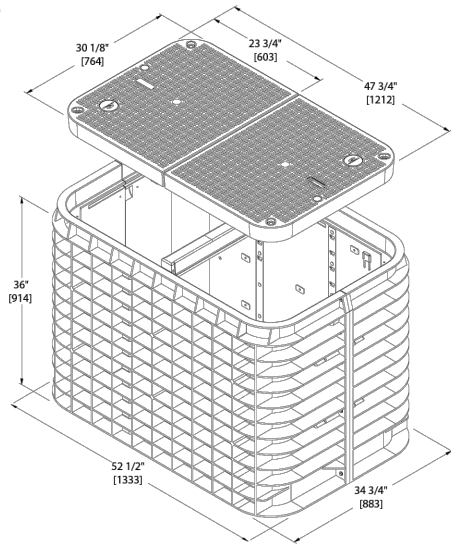


BULK 7 Series

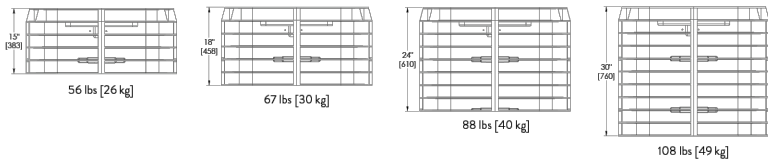
TECHNICAL SPECIFICATIONS

BODY SPECIFICATIONS

Cover Weight (Split 1/2 Cover) 50 lbs [23 kg]
Pit Weight 129 lbs [59 kg]
Assembled Weight 229 lbs [105 kg]



ADDITIONAL BODY DEPTHS



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TASK NAME

WILC015-U-S1

TASK DESCRIPTION
FIBER OPTIC CONDUIT
PLACEMENT

PROJECT AREA

LACROSSE, WI

SHEET SCALE

N.T.S.

SHEET TITLE

DETAILS

GRID NUMBER

SHEET NUMBER

D-2

SGLB-0

NEW SIGNATURE SERIES GRADE LEVEL BOX

WITH SELFLOCK™ PROTECTION



SELFLOCK™

The New Signature Series SGLB High Density Polyethylene (HDPE) grade level box line come standard with Logo Disk and the Patented **SELFLOCK™** automatic locking mechanism.

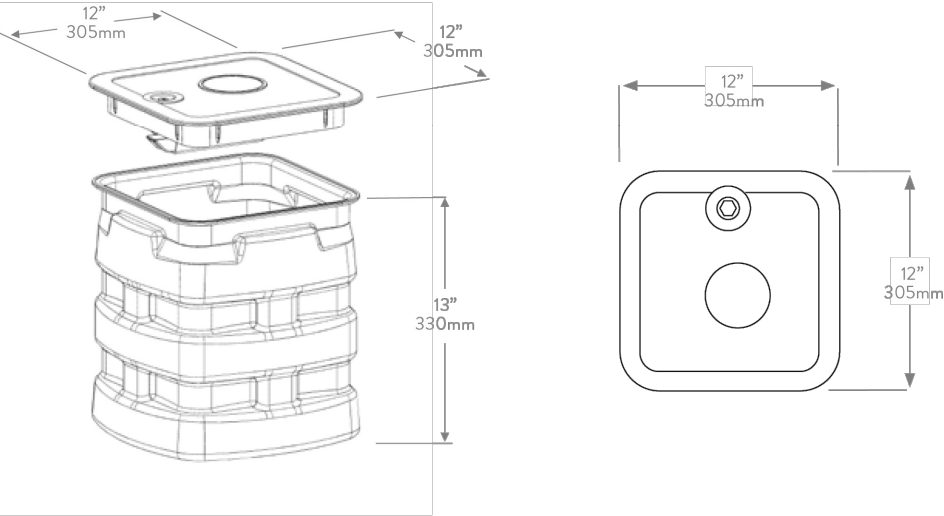
FEATURES

- 13" (330mm) Depth
 - No bolts to be lost, misplaced, or not installed back into the unit
- Captive bolt device, that opens with a ¼ turn
 - Press/Push lid closed, and it will automatically lock in place (with an audible "click")
 - Protects your investment, and ensures the needed protection for your network
 - Eliminates the risk of lids floating off, being throw be lawnmowers (i.e. reduces potentially liability)

SIMPLE AND WORRY FREE PROTECTION



DIMENSIONS



WORLDWIDE HEADQUARTERS: Channell Commercial Corporation, Rockwall, TX, United States • Tel 800.423.1863 • Fax 951.296.2322
CANADA: Channell Canada, Inc., Mississauga, ON, Canada • Tel 905.565.1700 • Fax 905.565.8282
EUROPE, MIDDLE EAST, AFRICA: Channell Ltd., Dartford, United Kingdom • Tel 44.1322.312590 • Fax 44.1322.508490
AUSTRALIA, ASIA, PACIFIC RIM: Channell Pty. Ltd., Seven Hills, NSW, Australia • Tel 61.2.8884.4111 • Fax 61.2.8814.8841

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040822 FRT

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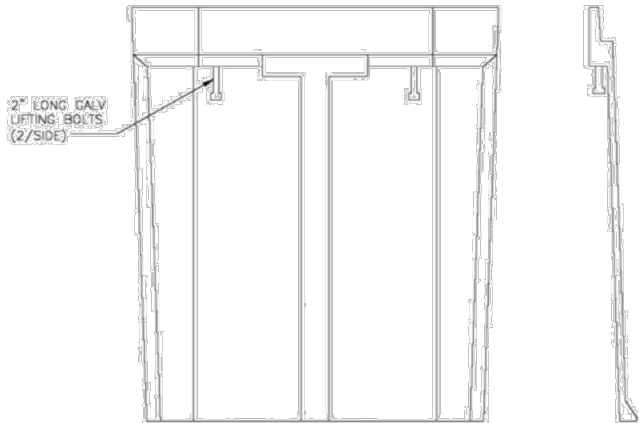
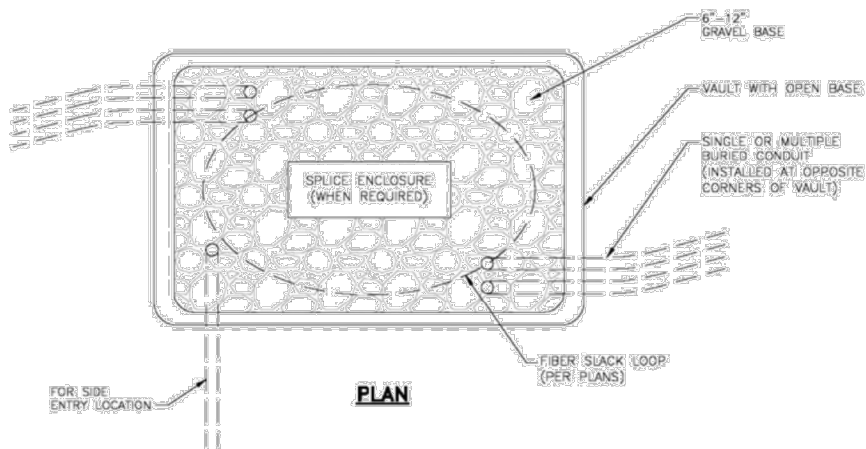
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TASK NAME
WILC015-U-S1
TASK DESCRIPTION
FIBER OPTIC CONDUIT PLACEMENT
PROJECT AREA
LACROSSE, WI
SHEET SCALE
N.T.S.
SHEET TITLE
DETAILS
GRID NUMBER
SHEET NUMBER
D-3

NOTES:

1. CALL FOR LOCATES AT LEAST 72 HOURS IN ADVANCE OF ANY CONSTRUCTION FOR MARKINGS.
2. FOR LABEL AND TAG INFORMATION SEE DRAWING OSP 16.
3. THE VAULT W/ BOTTOM ENTRY ELEVATION VIEW SHOWN BELOW ONLY INDICATES THE BACK FILL REQUIREMENTS NECESSARY FOR VAULTS PLACED IN SIDEWALKS, ETC. (WHERE THEY NEED TO COMPLY WITH ADA REQUIREMENTS). TO ENSURE COMPLIANCE WITH CURRENT ADA REQUIREMENTS, THE HEIGHT OF THE BACK FILL IS SHOWN HELD DOWN TO ALLOW CONCRETE TO FLOW DOWN AND AROUND THE LIFTING LUGS/BOLTS WHICH WILL SERVE AS DOWELS INTO THE FINISHED CONCRETE SLAB.



SIDE VIEW

ADA REQUIREMENTS:

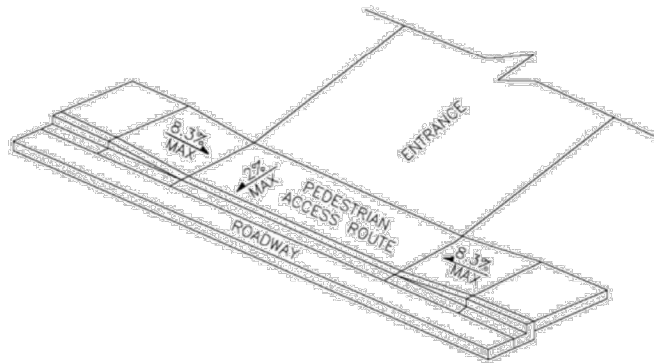
SURFACE LEVEL CRITERIA: NO HEIGHT DIFFERENTIALS WITH A RISE GREATER THAN $\frac{1}{4}$ " IN HEIGHT. EXCEPTIONS: A HEIGHT DIFFERENTIAL BETWEEN $\frac{1}{4}$ " AND $\frac{1}{2}$ " IS ACCEPTABLE IF IT IS BEVELED AT A 2:1 SLOPE, OR A HEIGHT DIFFERENTIAL GREATER THAN $\frac{1}{2}$ " IS ACCEPTABLE IF IT IS RAMPED WITH A SLOPE OF 8.33% (1V:12H) OR LESS.

UTILITY COVERS SHALL HAVE A SLIP RESISTANT TOP, AS MUCH AS POSSIBLE, AND MEET CHANGES IN LEVEL CRITERIA AS STATED ABOVE.

LIFT HOLES FOR UTILITY COVERS SHALL NOT HAVE AN OPENING GREATER THAN $\frac{1}{2}$ ". PLUGGING OF HOLES GREATER THAN $\frac{1}{2}$ " WITH A MATERIAL APPROVED BY THE ENGINEER IS ACCEPTABLE AS LONG AS IT IS FLUSH WITH THE COVER SURFACE.

A LEVEL PEDESTRIAN ACCESS ROUTE (PAR) OR WALKWAY SHALL BE PROVIDED ACROSS COMMERCIAL AND RESIDENTIAL ENTRANCES, MEETING THE FOLLOWING CRITERIA:

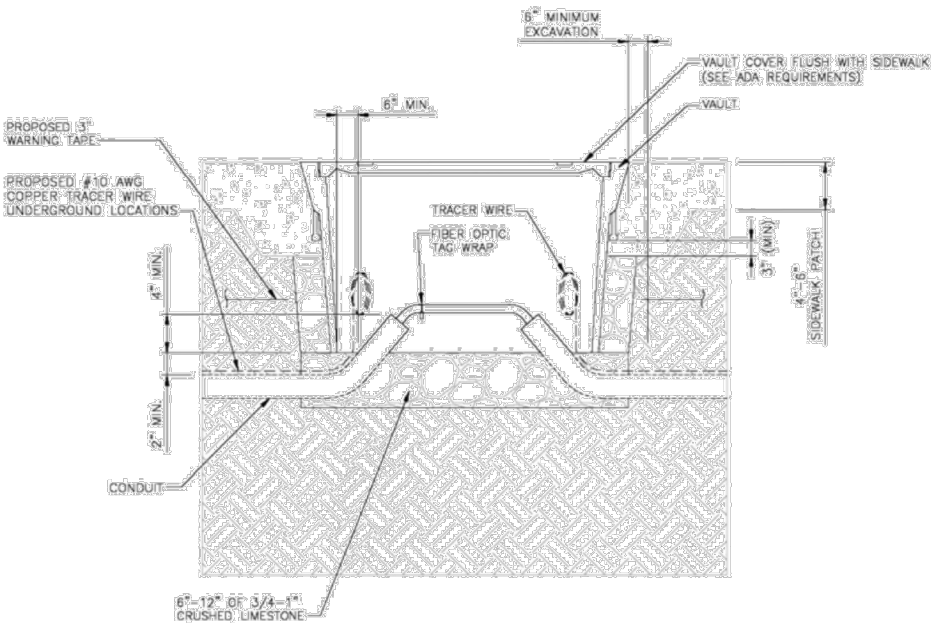
- THE WALKWAY IS AT MINIMUM 3' WIDE.
- CROSS SLOPE OF WALKWAY IS 2% OR LESS.
- WALKWAY IS AT THE SAME GRADE AS THE ADJACENT ROADWAY.
- THE WALKWAY DOES NOT HAVE TO BE MARKED, BUT PROVIDES A STRAIGHT LINE BETWEEN THE ADJOINING SIDEWALKS OR RAMPS.
- THERE IS NOT AN ABRUPT TRANSITION FROM THE DRIVEWAY TO THE ROADWAY FOR VEHICLES, I.E., VEHICLES WILL NOT BOTTOM OUT WHEN DRIVING OVER THE TRANSITION.



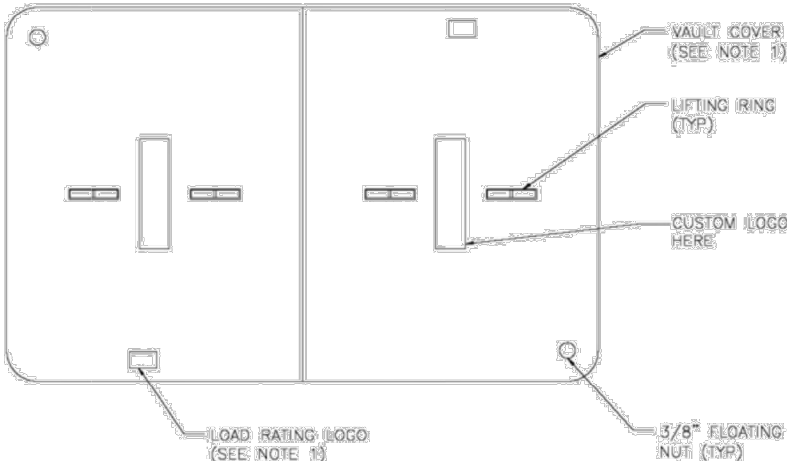
PEDESTRIAN ACCESS ROUTE

NOTE:

1. ENCLOSURES, BOXES AND COVERS ARE REQUIRED TO MEET OR EXCEED ALL TESTS PROVISIONS OF THE MOST CURRENT ANSI/SCIE 77-2007 "SPECIFICATIONS FOR UNDERGROUND INTEGRITY" FOR TIER 15 OR BETTER.



VAULT W/ BOTTOM ENTRY



VAULT LID

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TASK NAME
WILC015-U-S1

TASK DESCRIPTION
FIBER OPTIC CONDUIT PLACEMENT

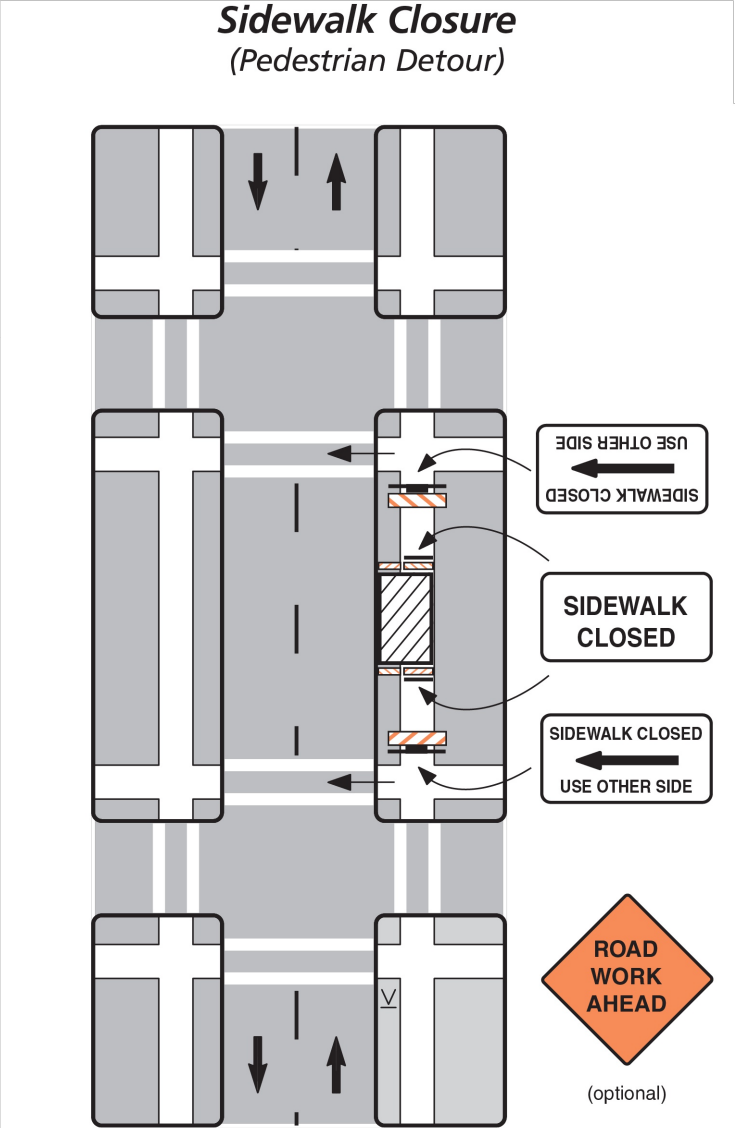
PROJECT AREA
LACROSSE, WI

SHEET SCALE
N.T.S.

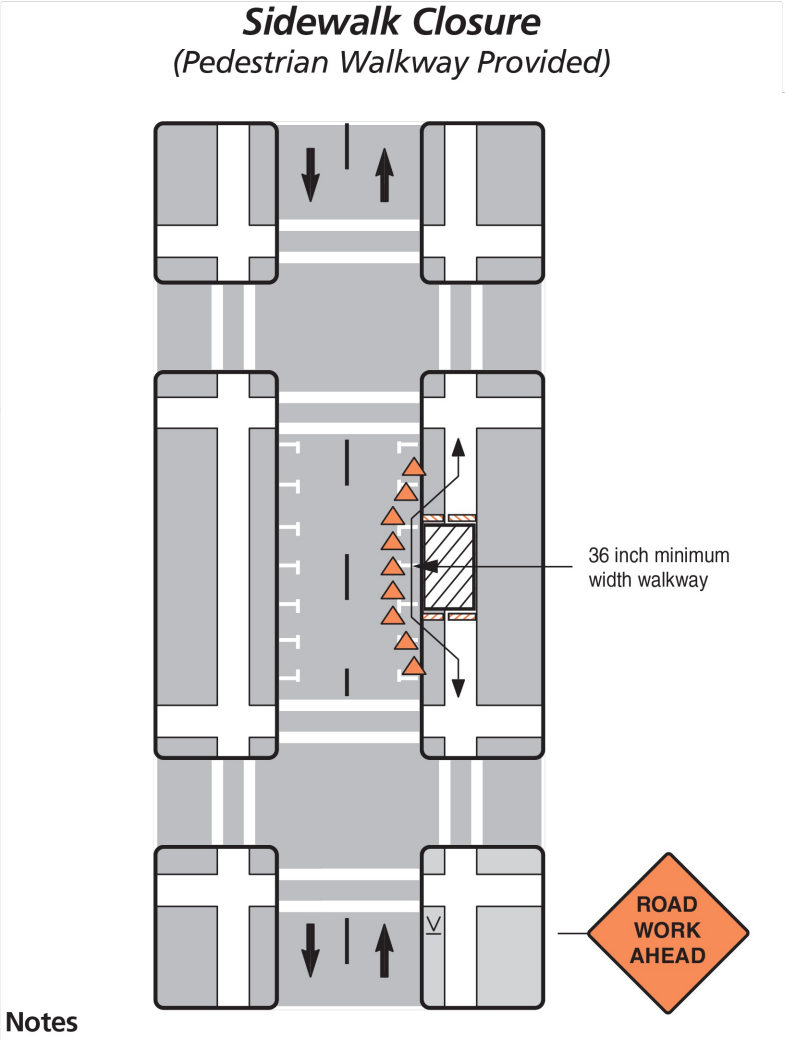
SHEET TITLE
DETAILS

GRID NUMBER

SHEET NUMBER
D-4



- Notes**
1. Additional advance warning may be necessary.
 2. Only the traffic control devices related to pedestrians are shown. Other devices may be needed to control traffic on the streets such as lane closure signs, ROAD NARROWS or LANE NARROWS signs.
 3. For nighttime closures, Type A flashing warning lights may be used on barricades supporting signs and closing walkways.
 4. Audible devices should be considered to alert pedestrians with visual disabilities of closings and crosswalk changes.



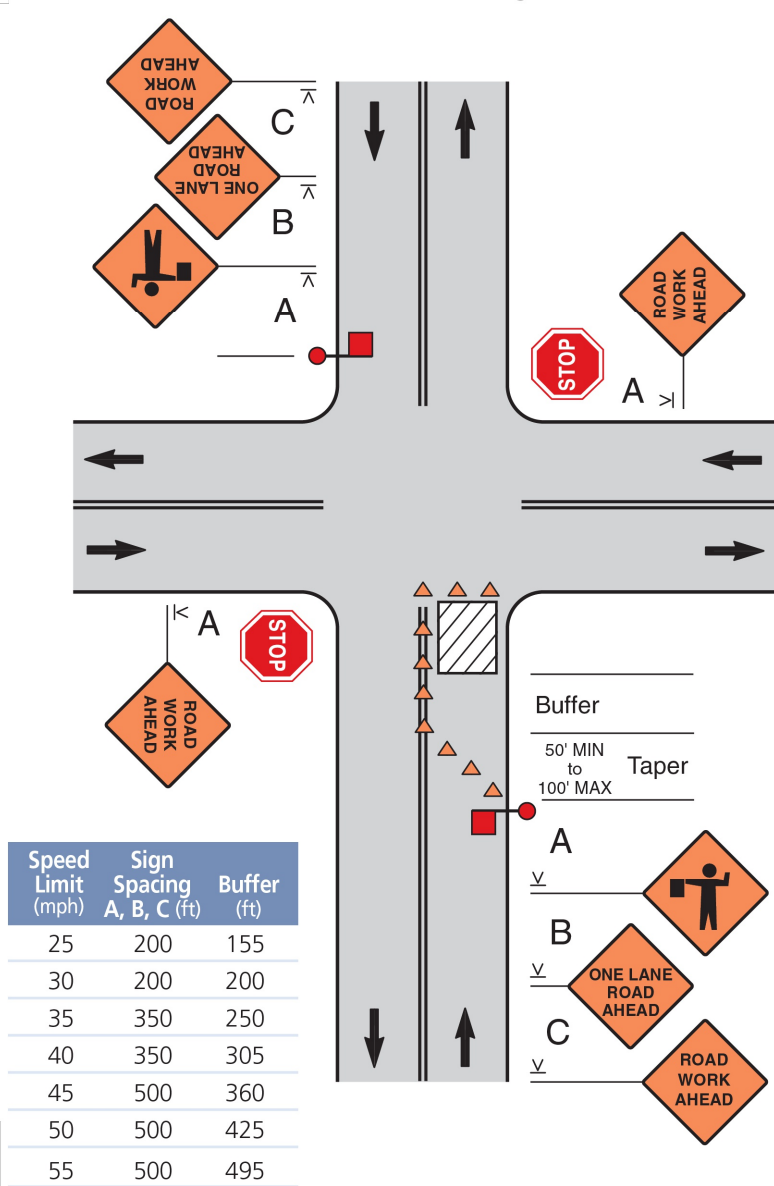
- Notes**
1. Additional advance warning may be necessary.
 2. Only the traffic control devices related to pedestrians are shown. Other devices such as lane closure signs, ROAD NARROWS or LANE NARROWS signs may be needed to control traffic on the streets.
 3. For nighttime closures, Type A flashing warning lights may be used on barricades supporting signs and closing walkways. Type C or Type D steady-burn lights may be used on channelizing devices separating the temporary walkway from vehicular traffic.
 4. Where high speeds are likely, a barrier should separate the temporary walkway from vehicular traffic. Refer to Section 6D.01 of Part 6 of the MUTCD for information on barriers.
 5. Signs may be placed along a temporary walkway to guide pedestrians; for example, Keep Right or Keep Left signs.
 6. Pedestrian walkways should be ADA accessible (i.e., ramps, surfaces).

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TASK NAME
WILC015-U-S1
TASK DESCRIPTION
FIBER OPTIC CONDUIT PLACEMENT
PROJECT AREA
LACROSSE, WI
SHEET SCALE
N.T.S.
SHEET TITLE
TRAFFIC CONTROL STANDARD DETAILS
GRID NUMBER
SHEET NUMBER
TCP-1

Lane Closure in Advance of an Intersection
(Work Area on the Through Road)

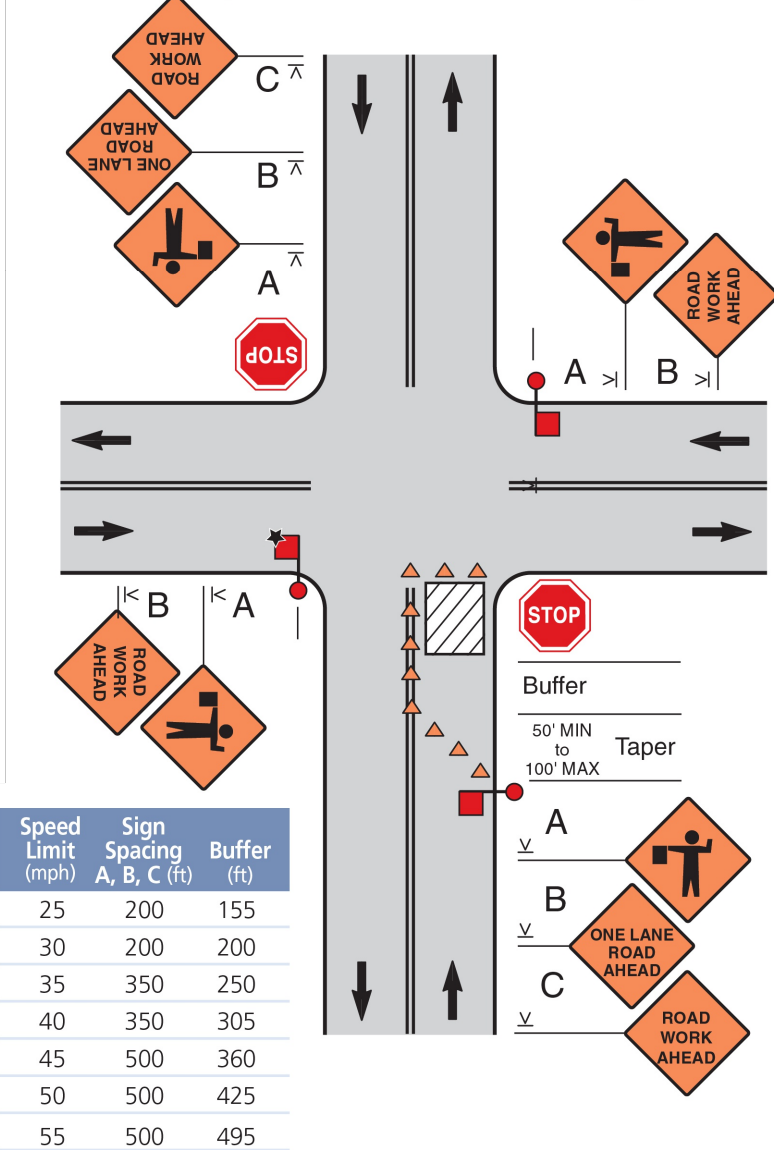


Notes

- Depending on traffic conditions, consider additional traffic control on the side road approaches, such as flaggers and appropriate signs.
- The flaggers shall use approved flagging procedures according to the MUTCD and as shown on page 57.

38

Lane Closure in Advance of an Intersection
(Work Area on the Side Road)



Notes

- Depending on traffic conditions, consider additional traffic control, such as flaggers and appropriate signs.
- The middle flagger has the best view of traffic from all directions and would normally be *lead flagger* and coordinate the other flaggers.
- The flaggers shall use approved flagging procedures according to the MUTCD and as shown on page 57.
- A temporary STOP sign on the main street can also be used.

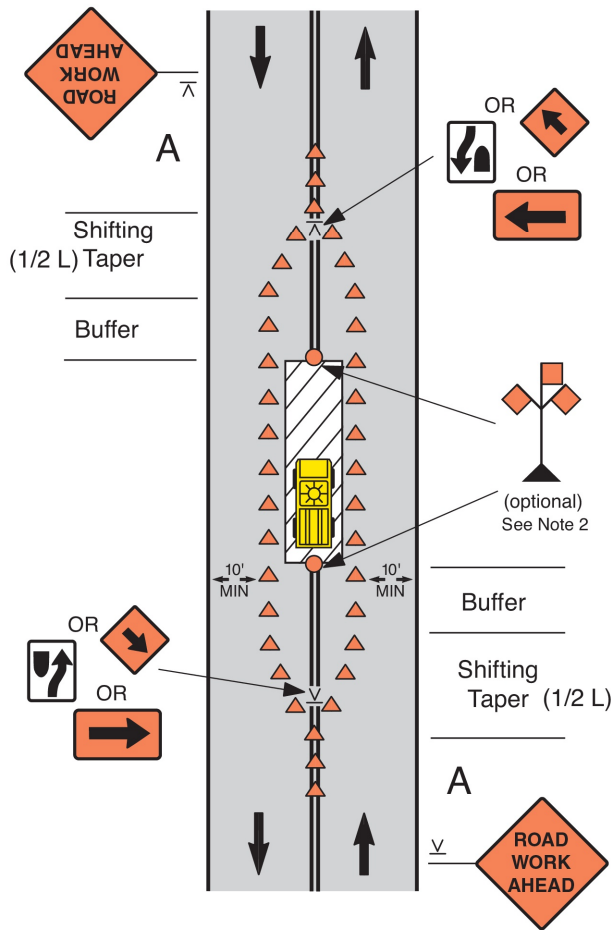
39

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WILC015-U-S1
TASK DESCRIPTION
FIBER OPTIC CONDUIT PLACEMENT
PROJECT AREA
LACROSSE, WI
SHEET SCALE
N.T.S.
SHEET TITLE
TRAFFIC CONTROL STANDARD DETAILS
GRID NUMBER
SHEET NUMBER
TCP-2

Work in Center of Road
(Maintaining Two-Way Traffic, 35 mph or Less)

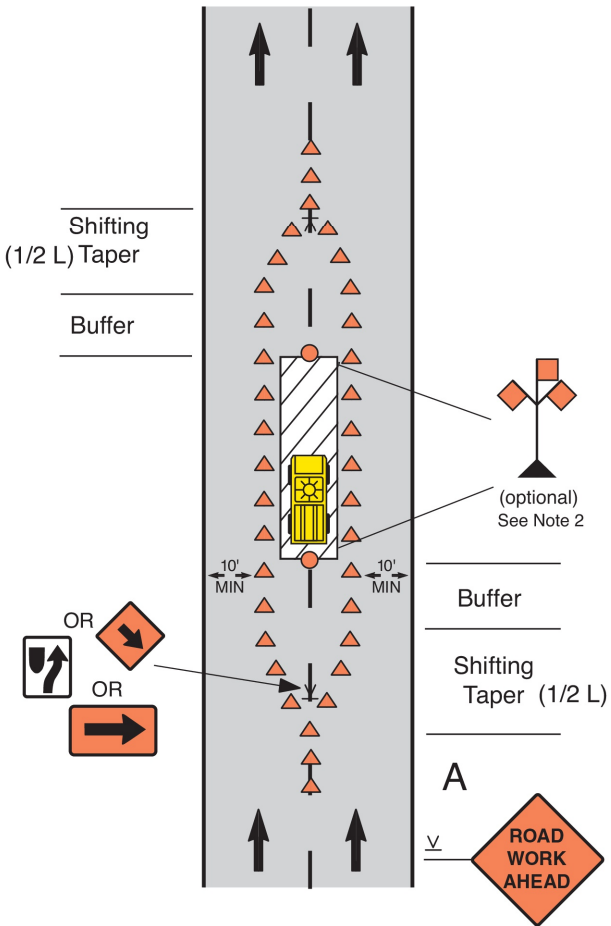


Notes

- 1. Additional advance warning signs can be used such as ROAD NARROWS or Reverse Curve/Turn signs. The Reverse Curve/Turn sign is appropriate for larger deviations in the travel path.
- 2. Channelizing devices and high level warning devices may be eliminated on roads with low volumes if a work vehicle with activated high intensity lights is used.
- 3. The Large Arrow sign can be used instead of the Keep Right or Down Arrow sign where space permits.

Speed Limit (mph)	Sign Spacing A, B (ft)	Shifting Taper (ft)		Buffer (ft)
25	200	30	55	155
30	200	40	75	200
35	350	55	105	250

Work in Center of Road on
Divided or One-Way Roadway
(35 mph or Less)



Notes

- 1. Additional advance warning signs can be used such as ROAD NARROWS or Reverse Curve/Turn signs. The Reverse Curve/Turn sign is appropriate for larger deviations in the travel path.
- 2. Channelizing devices and high level warning devices may be eliminated on roads with low volumes if a work vehicle with activated high intensity lights is used.
- 3. The Large Arrow sign can be used instead of the Keep Right or Down Arrow sign where space permits.

Speed Limit (mph)	Sign Spacing A, B (ft)	Shifting Taper (ft)		Buffer (ft)
25	200	30	55	155
30	200	40	75	200
35	350	55	105	250

REV	DATE	DESCRIPTION	BY
A	03/19/24	ISSUED FOR REVIEW	CS
B	05/10/24	REVISED	CS
C	05/30/24	REVISED	JF

I HEREBY CERTIFY THAT THESE DRAWINGS WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND CONTROL, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF COMPLY WITH THE REQUIREMENTS OF ALL APPLICABLE CODES.

TASK NAME

WILC015-U-S1

TASK DESCRIPTION

FIBER OPTIC CONDUIT
PLACEMENT

PROJECT AREA

LACROSSE, WI

SHEET SCALE

N.T.S.

SHEET TITLE

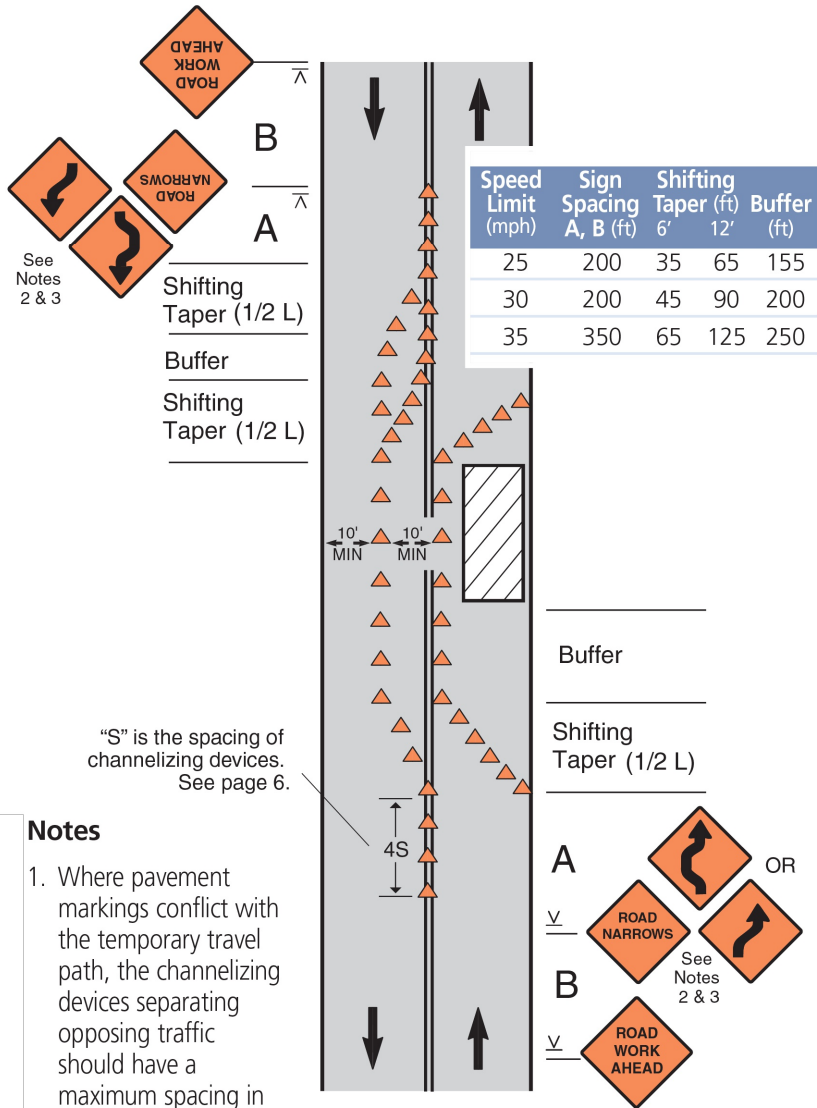
TRAFFIC CONTROL
STANDARD DETAILS

GRID NUMBER

SHEET NUMBER

TCP-3

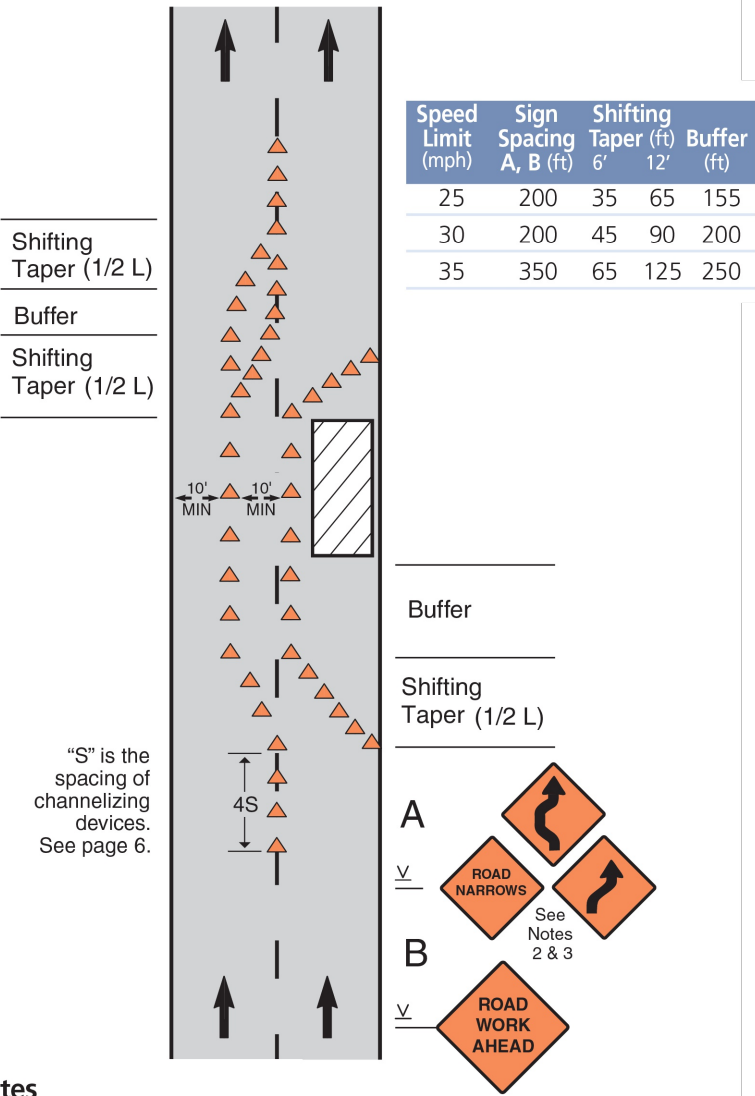
Work in Travel Lane
(Maintaining Two-Way Traffic, 35 mph or Less)



Notes

- Where pavement markings conflict with the temporary travel path, the channelizing devices separating opposing traffic should have a maximum spacing in feet of 1/2 the speed limit in mph.
- The ROAD NARROWS or Reverse Curve/Turn sign is optional on roads with low volume or where the lane shift requires only a minor deviation in the travel path. The Reverse Curve/Turn sign is appropriate for larger deviations in the travel path.
- If the tangent is more than 600', the Reverse Curve/Turn sign should be used instead of the Double Reverse Curve sign.
- If speeds are 30 mph or less, Reverse Turn signs shall be used instead of Reverse Curve.

Work in Travel Lane on
Divided or One-Way Roadway
(35 mph or Less)



Notes

- Where pavement markings conflict with the temporary travel path, the channelizing devices separating opposing traffic should have a maximum spacing in feet of 1/2 the speed limit in mph.
- If the tangent is more than 600 feet, the Reverse Curve/Turn sign should be used instead of the Double Reverse Curve sign.
- If speeds are 30 mph or less, Reverse Turn signs shall be used instead of Reverse Curve.

REV	DATE	DESCRIPTION	BY
A	03/19/24	ISSUED FOR REVIEW	CS
B	05/10/24	REVISED	CS
C	05/30/24	REVISED	JF

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TASK NAME

WILC015-U-S1

TASK DESCRIPTION
FIBER OPTIC CONDUIT
PLACEMENT

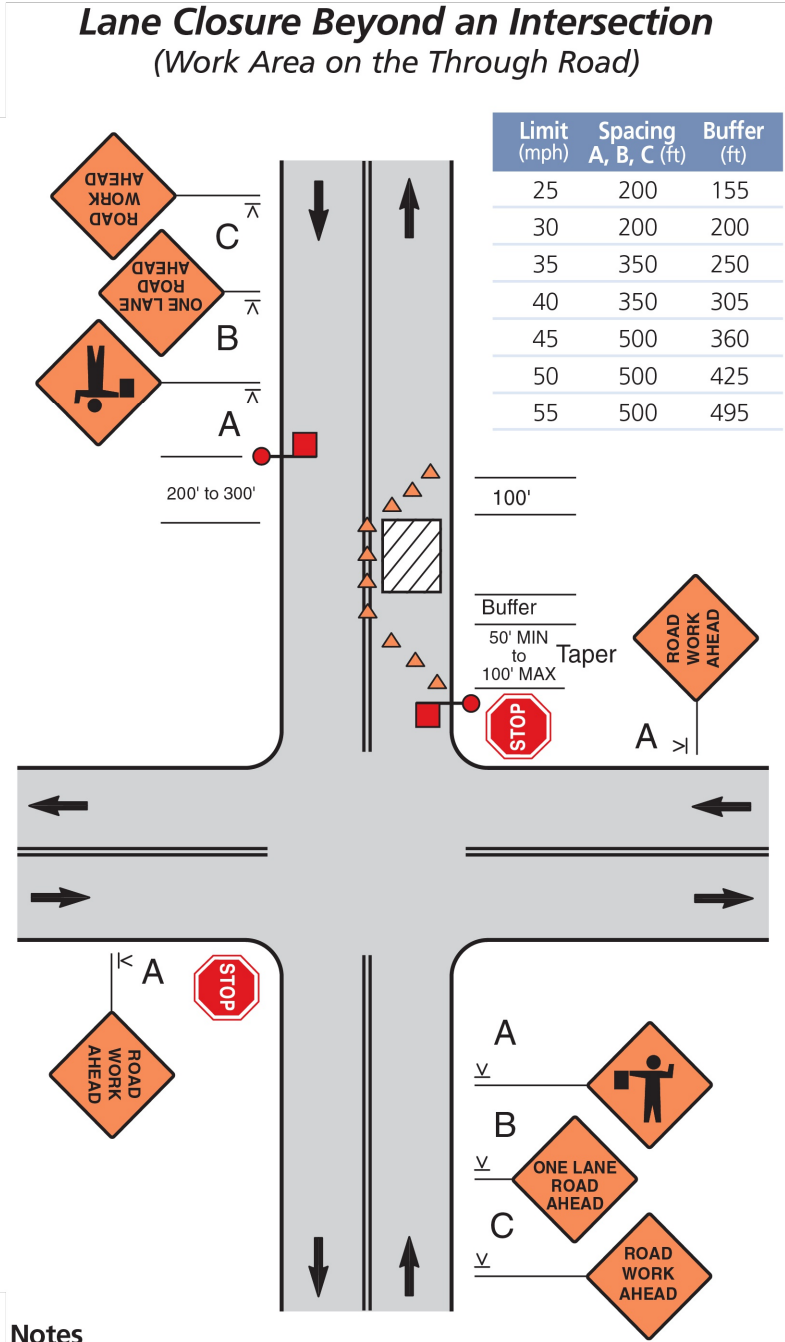
PROJECT AREA
LACROSSE, WI

SHEET SCALE
N.T.S.

SHEET TITLE
TRAFFIC CONTROL
STANDARD DETAILS

GRID NUMBER

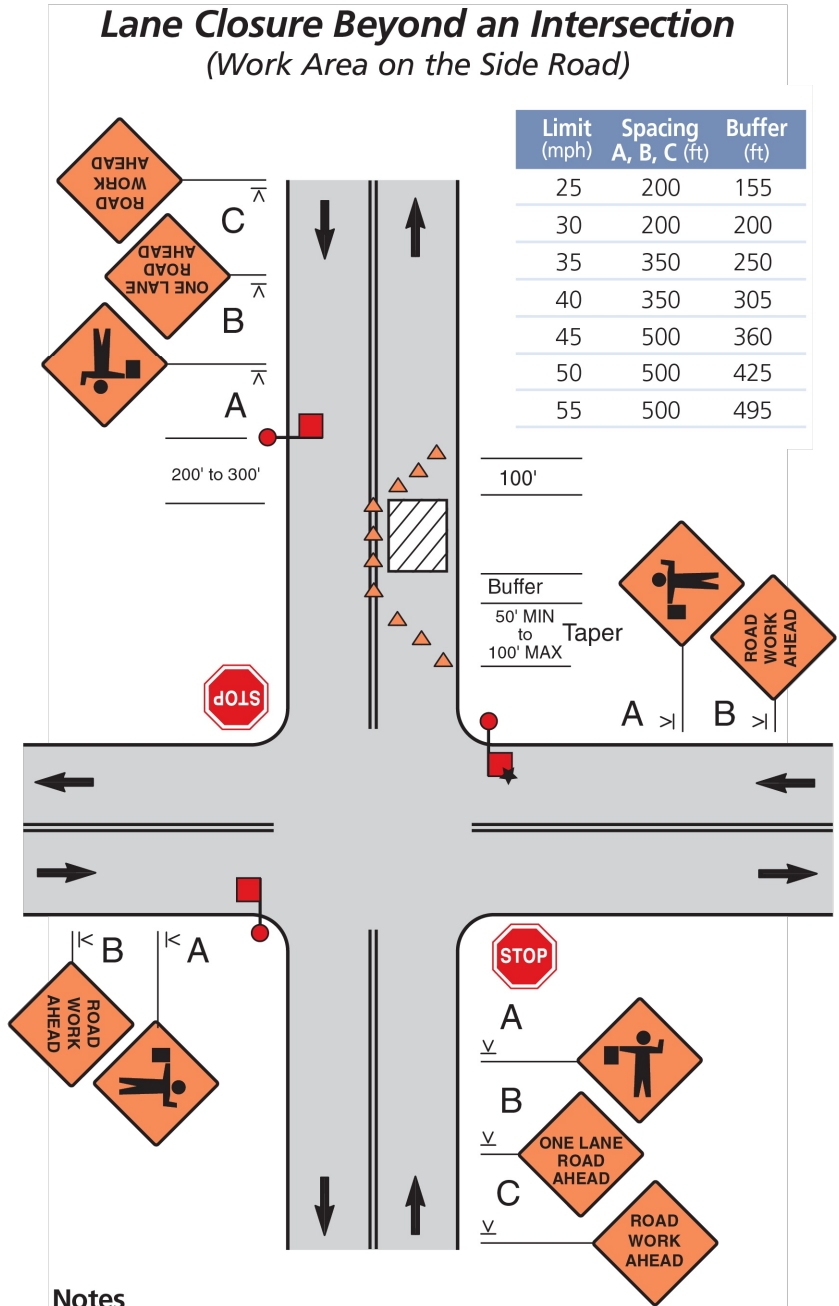
SHEET NUMBER
TCP-4



Notes

- Depending on traffic conditions, consider additional traffic control, such as flaggers and appropriate signs.
- The flaggers shall use approved flagging procedures according to the MUTCD and as shown on page 57.

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Notes

- Depending on traffic conditions, consider additional traffic control, such as flaggers and appropriate signs.
- The middle flagger would normally be *lead flagger* and would coordinate the other flaggers.
- The flaggers shall use approved flagging procedures according to the MUTCD and as shown on page 57.

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COA# 3620-11
www.fullerton-us.com

REV	DATE	DESCRIPTION	BY
A	03/19/24	ISSUED FOR REVIEW	CS
B	05/10/24	REVISED	CS
C	05/30/24	REVISED	JF

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TASK NAME

WILC015-U-S1

TASK DESCRIPTION

FIBER OPTIC CONDUIT
PLACEMENT

PROJECT AREA

LACROSSE, WI

SHEET SCALE

N.T.S.

SHEET TITLE

TRAFFIC CONTROL
STANDARD DETAILS

GRID NUMBER

SHEET NUMBER

TCP-5