metronet

TASK NAME: WILC033-U-SI

TASK DESCRIPTION: FIBER OPTIC CONDUIT PLACEMENT

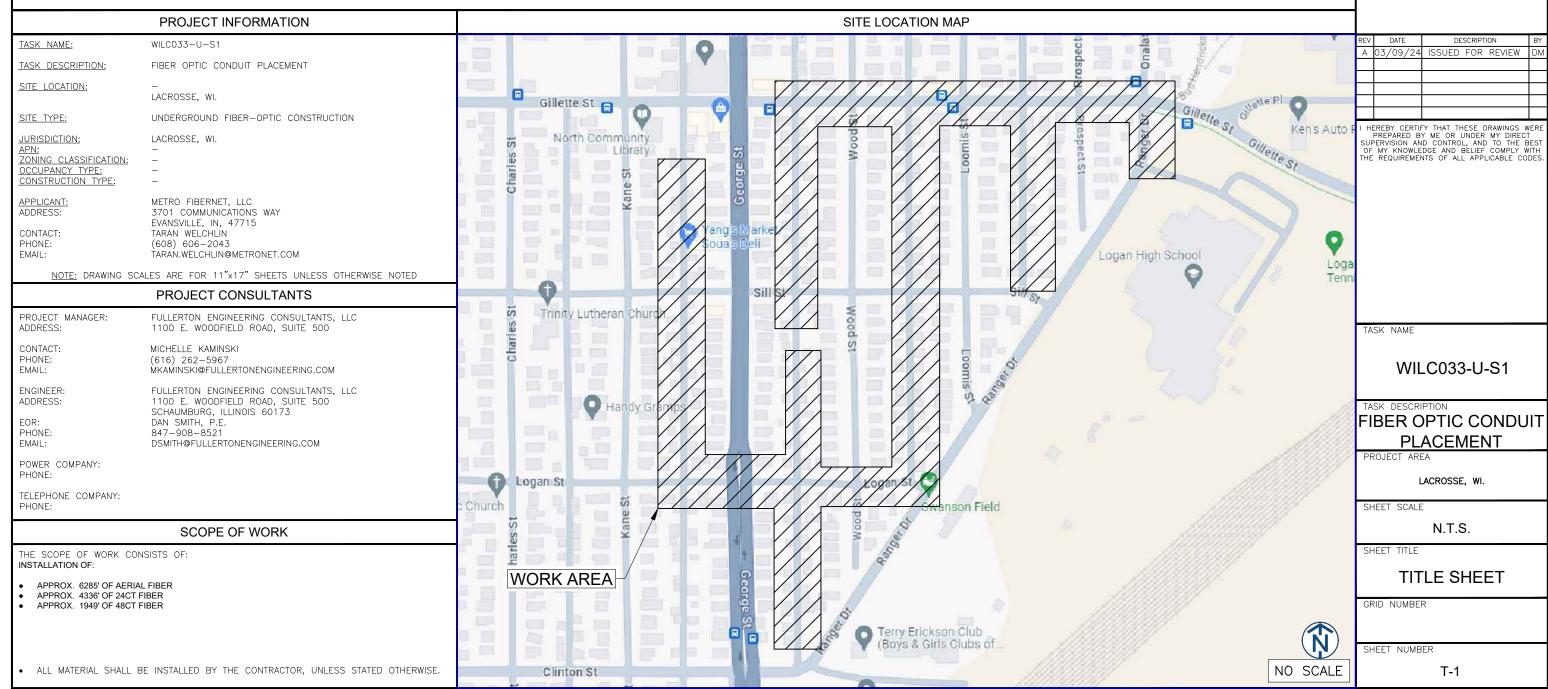
SITE LOCATION: LACROSSE, WI.

metronet
3701 COMMUNICATIONS WAY

EVANSVILLE, IN. 47715



1100 E. WOODFIELD ROAD, SUITE 500 SCHAUMBURG, ILLINOIS 60173 TEL: 847-908-8400 DESIGN FIRM NO. 184.008202-0006



SHEET NUMBER	SHEET TITLE	SHEET NUMBER	SHEET TITLE
T-1	TITLE SHEET		
T-2	SHEET INDEX		
T-3	LEGEND		
GN-1	GENERAL NOTES		
MAP-1	MAP		
MAP-2	MAP		
C-001	DESIGN LAYOUT		
C-002	DESIGN LAYOUT		
C-003	DESIGN LAYOUT		
C-004	DESIGN LAYOUT		
C-005	DESIGN LAYOUT		
C-006	DESIGN LAYOUT		
C-007	DESIGN LAYOUT		
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C-017	DESIGN LAYOUT		
C-018	DESIGN LAYOUT		
C-019	DESIGN LAYOUT		
C-020	DESIGN LAYOUT		
C-021	DESIGN LAYOUT DETAILS		
D-1	DETAILS		
D-3	DETAILS		
D-4	DETAILS		
TCP-1	TRAFFIC CONTROL STANDARD		
TCP-2	TRAFFIC CONTROL STANDARD		
TCP-3	TRAFFIC CONTROL STANDARD		

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REV	DATE	DESCRIPTION	BY
Α	03/09/24	ISSUED FOR REVIEW	DM

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

WILC033-U-S1

TASK DESCRIPTION

FIBER OPTIC CONDUIT PLACEMENT

PROJECT AREA

LACROSSE, WI.

SHEET SCALE

N.T.S.

SHEET TITLE

SHEET INDEX

GRID NUMBER

SHEET NUMBER

T-2

LEGEND

			TIM.
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		ACROSSE, WI.	
	SHEET SCALE	N.T.S.	
	SHEET TITLE	LEGEND	
	GRID NUMBE	R	

COMMUNICATIONS	<u>3</u>	
	(A)	EXISTIN

—— АТТ	Γ	EXISTING AT&T		EXISTING AT&T MANHOLE
	ATT	EXISTING AT&T (ABANDON)	(A))	EXISTING AT&T MANHOLE
со		EXISTING COMMUNICATIONS	©	EXISTING COMMUNICATIONS MANHOLE
—— МС	ı ——	EXISTING MCI	MCI	EXISTING MCI
SP		EXISTING SPRINT	(SP)	EXISTING SPRINT/NEXTEL MANHOLE
SN		EXISTING SUNESYS	SN	EXISTING SUNESYS MANHOLE
VZ		EXISTING VERIZON	(VZ)	EXISTING VERIZON MANHOLE
		EXISTING CITY FIBER		

MISCELLANEOUS

x	EXISTING FENCE	?	EXISTING MISCELLANEOUS MANHOLE
	EXISTING CONSTRUCTION FENCE	G	EXISTING GARBAGE CAN
o	EXISTING GUARDRAIL	(P)	EXISTING PARK DISTRICT MANHOLE
R/W	EXISTING PROPERTY LINE/ R.O.W.	M	EXISTING MONITORING WELL
←	EXISTING BIKE RACK	F	EXISTING FIRE ALARM
	EXISTING TREE	P	EXISTING STREET PARKING PAY BOX
6	EXISTING BUSH		EXISTING PEDESTAL
-	EXISTING STREET SIGN POST	M	EXISTING MAILBOX
®	EXISTING POST/BOLLARD	N	EXISTING NEWSPAPER BOX
¤	EXISTING GROUND LIGHT		EXISTING PHONE
+ ○ *	EXISTING UTILITY POLE	S	EXISTING SPRINKLER CONTROL BOX
Q	EXISTING STANDPIPE	S	EXISTING SPRINKLER VALVE
ADA	EXISTING ADA RAMP	H	EXISTING SUPPORT COLUMN

	EXISTING WATER MAIN	W
/ / / W	EXISTING WATER MAIN (ABANDON)	8
1 0	EXISTING WATER SHUT OFF	•
F	EXISTING FIRE CISTERN MANHOLE	.
Г	EXISTING WATER CAP	⊳

PROPOSED OPEN CUT TRENCH

PROPOSED DIRECTIONAL BORE

PROPOSED L-HANDHOLE(30X48X24) PROPOSED M-HANDHOLE(24X36X18)

EXISTING SEWER MAIN (ABANDON)

EXISTING STORM SEWER MAIN

EXISTING STORM MANHOLE

EXISTING GAS REDUCER

EXISTING RED LIGHT CAMERA POLE

PROPOSED BORE PIT

PROPOSED AERIAL

EXISTING SEWER MAIN

EXISTING WATER SHUT OFF		EXISTING WATER METER
EXISTING FIRE CISTERN MANHOLE	.	EXISTING FIRE HYDRANT
EXISTING WATER CAP		EXISTING WATER REDUCER

PROPOSED

<u>SEWER</u>

WATER

В

ТВ

DB

S

PROPOSED B-UTILITY BOXES(17X30X18)

PROPOSED TERMINAL BOXES(13X24X15)

PROPOSED DROP BOXES(11X11X12)

EXISTING SEWER MANHOLE

EXISTING WATER MANHOLE EXISTING WATER VALVE

EXISTING RED LIGHT FLASH POLE

EXISTING SEWER INLET

EXISTING SEWER CATCH BASIN

		GAS		
G	EXISTING GAS MAIN		\otimes	EXISTING GAS MANHOLE
	EXISTING GAS MAIN (DEAD)		\otimes	EXISTING GAS VALVE
	EXISTING GAS CAP		\boxtimes	EXISTING GAS METER

<u>DEO/ELECTRIC</u>				
——— E ———	EXISTING DEO/ELECTRIC	ψ-	EXISTING STREET LIGHT POLE	
SLC	EXISTING STREET LIGHT CONTROL BOX	-\$	EXISTING TRAFFIC LIGHT POLE	
TLC	EXISTING TRAFFIC LIGHT CONTROL BOX	· P	EXISTING DEO POLE	
	EXISTING STREET LIGHT HANDHOLE	E	EXISTING ELECTRIC MANHOLE	
T	EXISTING TRAFFIC LIGHT HANDHOLE	0	EXISTING ELECTRIC HANDHOLE	

T-3

SHEET NUMBER

- 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.
- 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 LITHIUTY AND THEIR CONTRACTORS

metronet

3701 COMMUNICATIONS WAY EVANSVILLE, IN. 47715



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WILC033-U-S1

TASK DESCRIPTION

FIBER OPTIC CONDUIT PLACEMENT

PROJECT AREA

LACROSSE, WI.

SHEET SCALE

N.T.S.

SHEET TITLE

GENERAL NOTES

GRID NUMBER

SHEET NUMBER

GN-1





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MAP

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MAP-1



PLANSET

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









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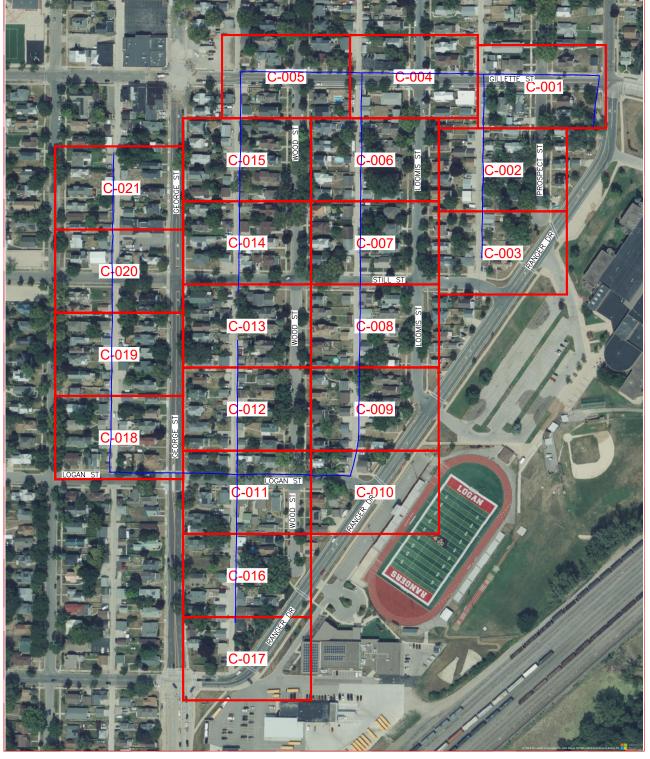
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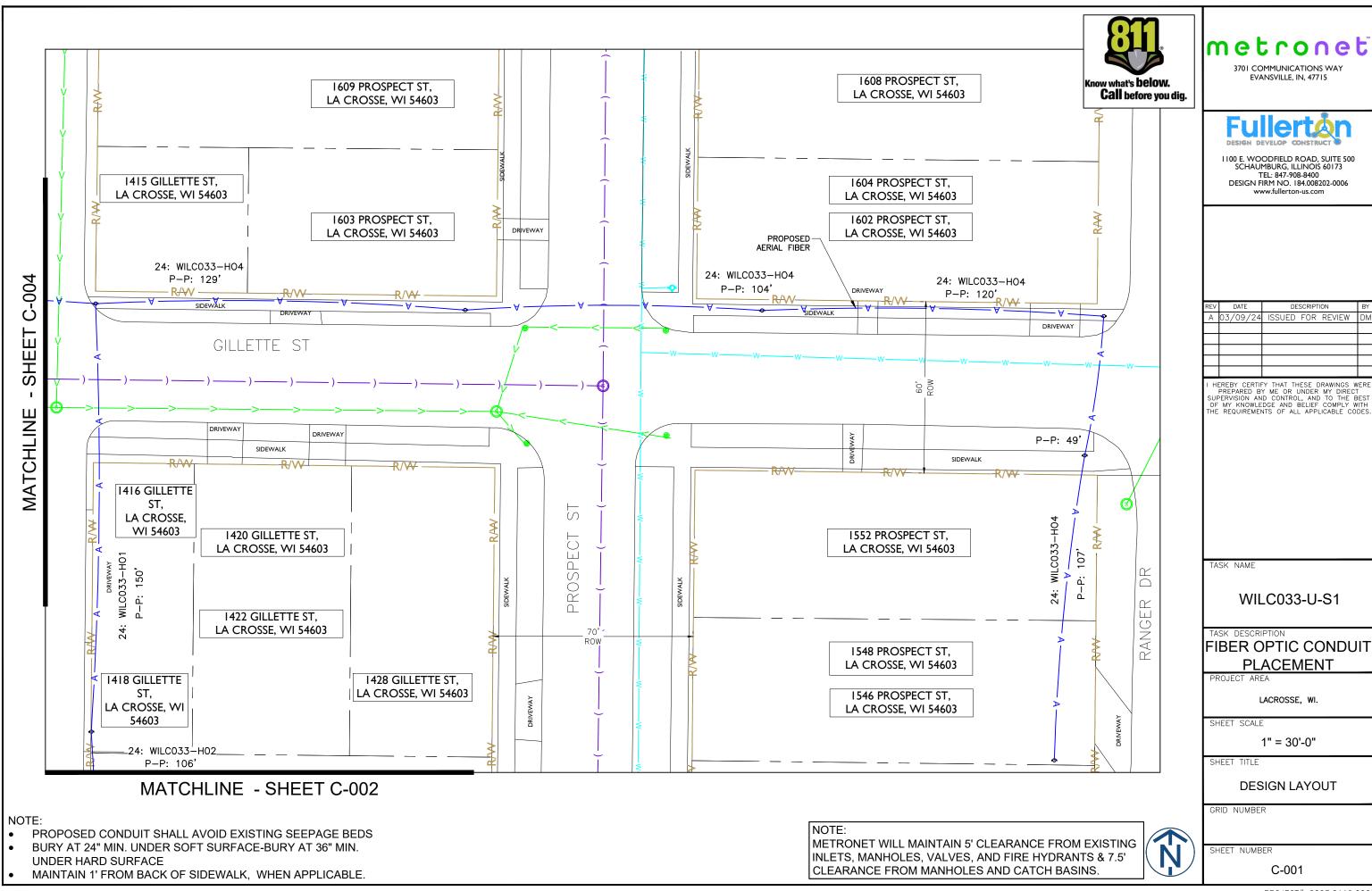
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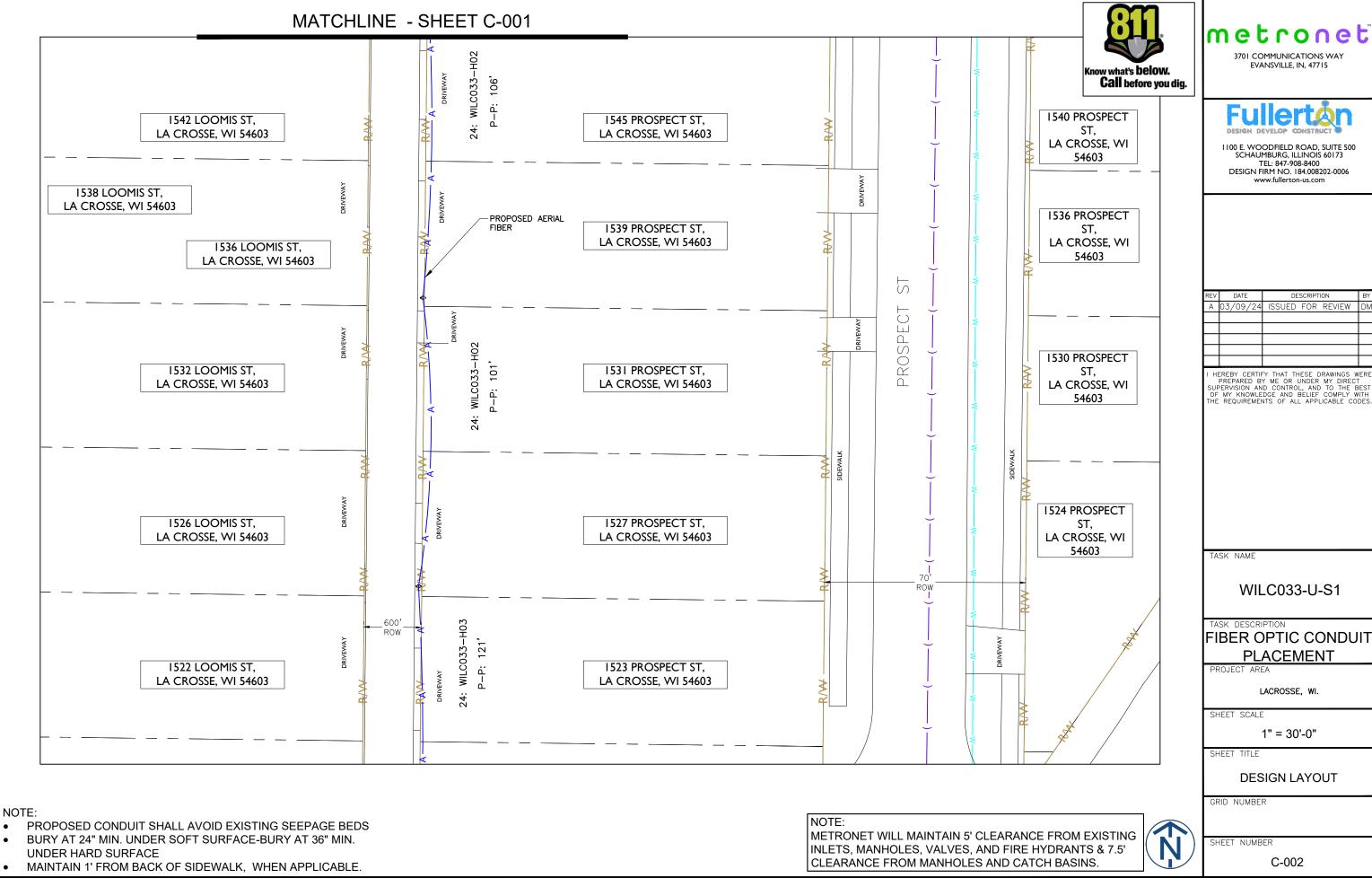
MAP-2

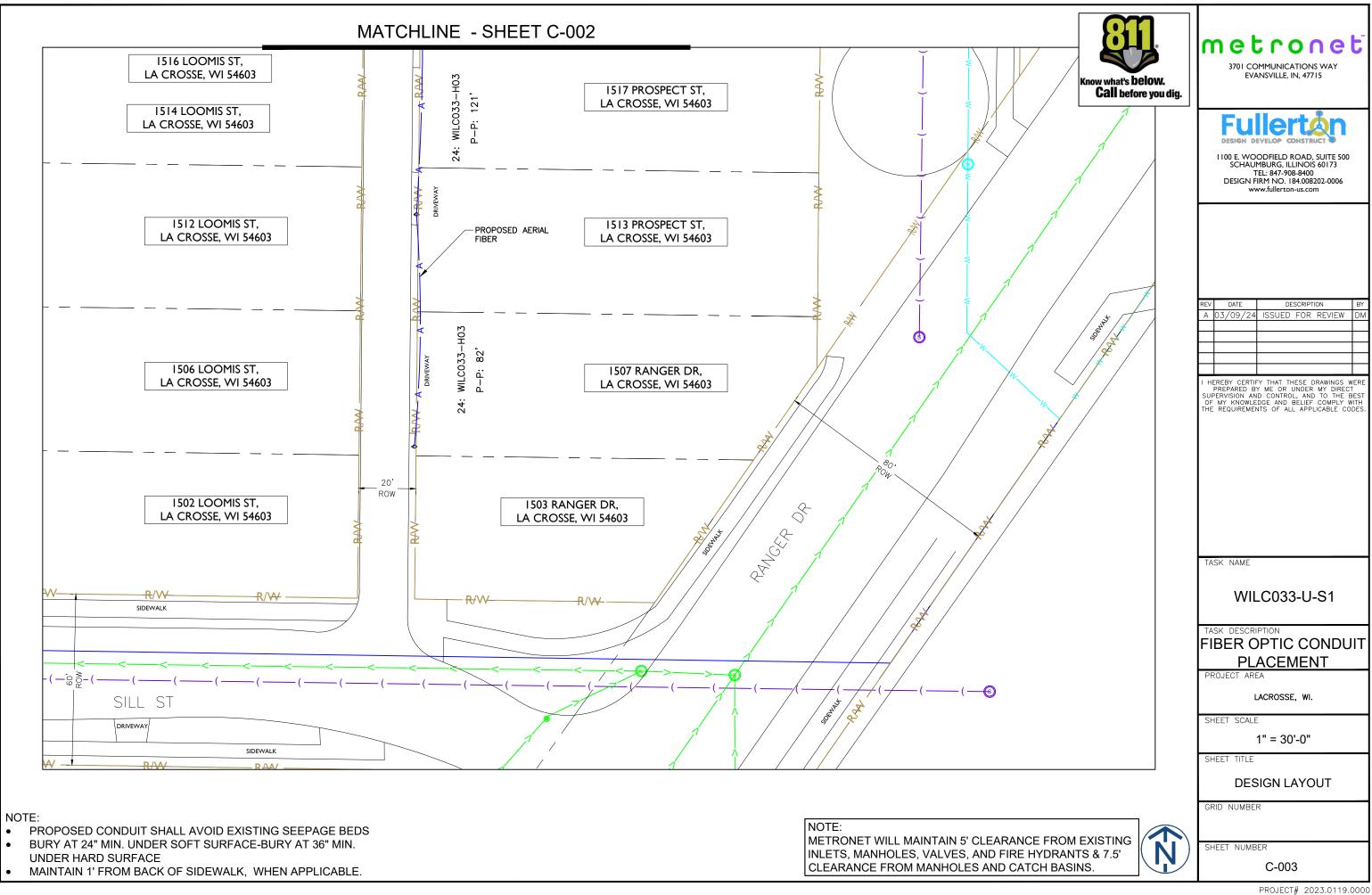


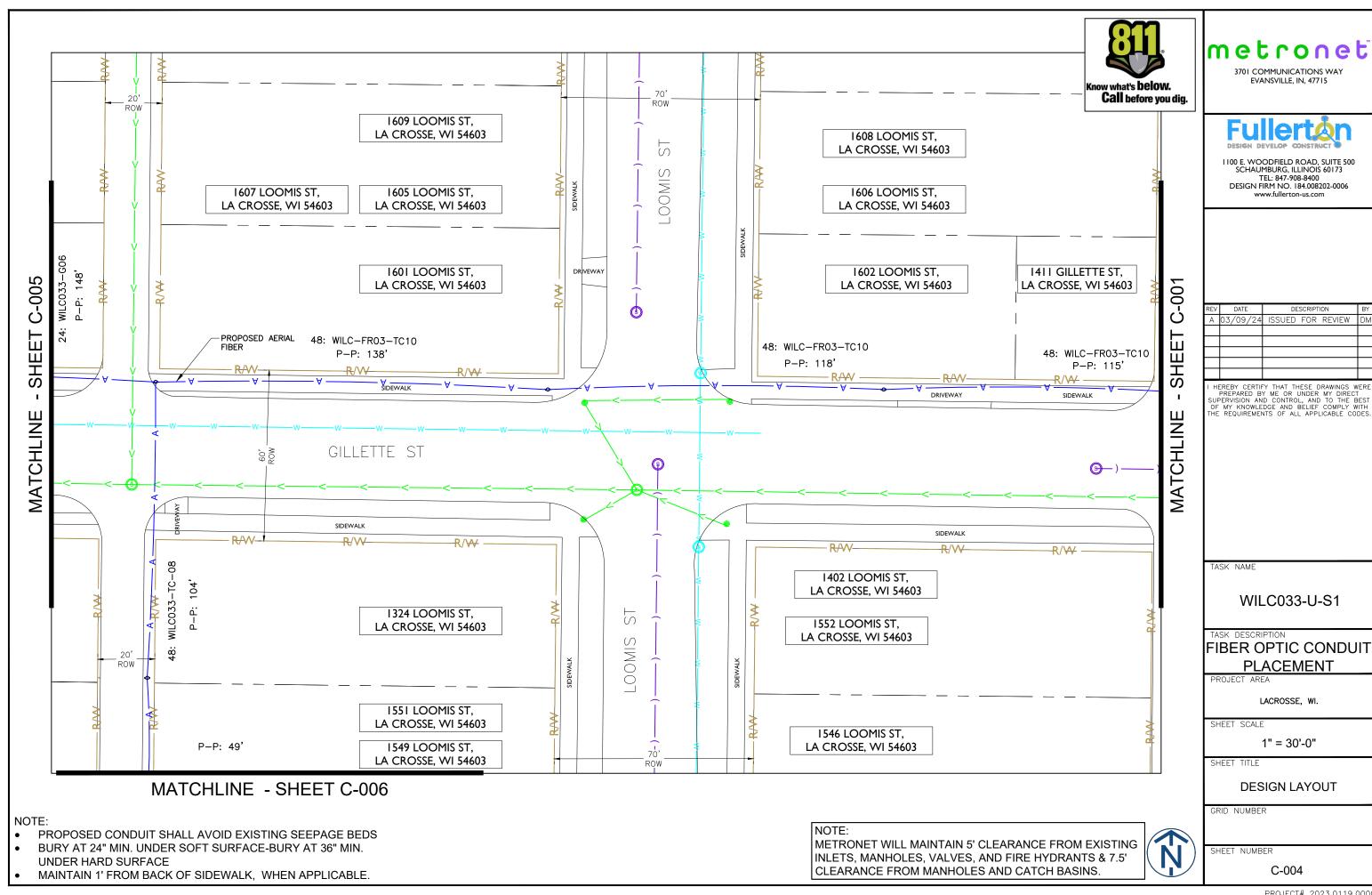
PLANSET

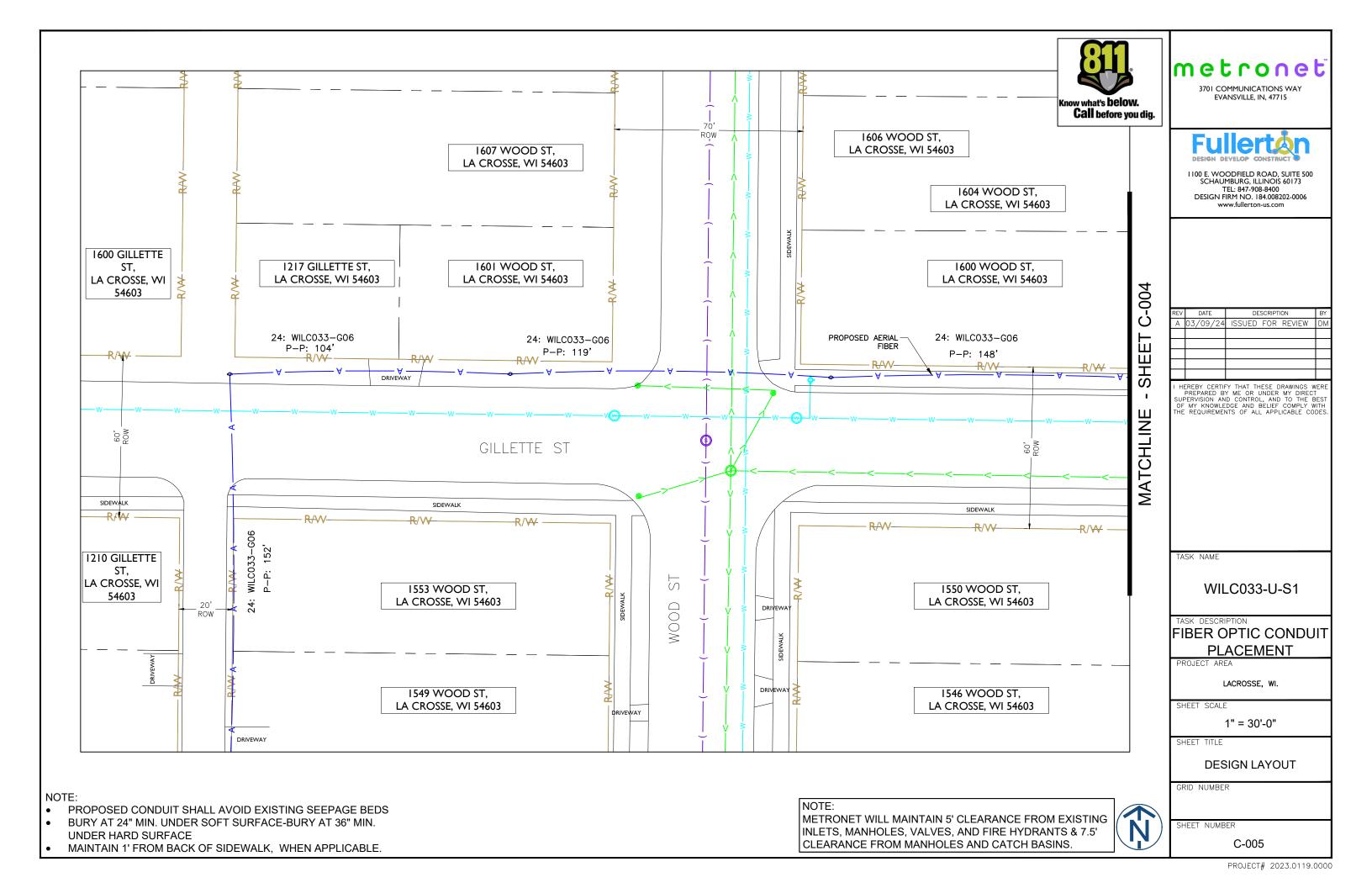
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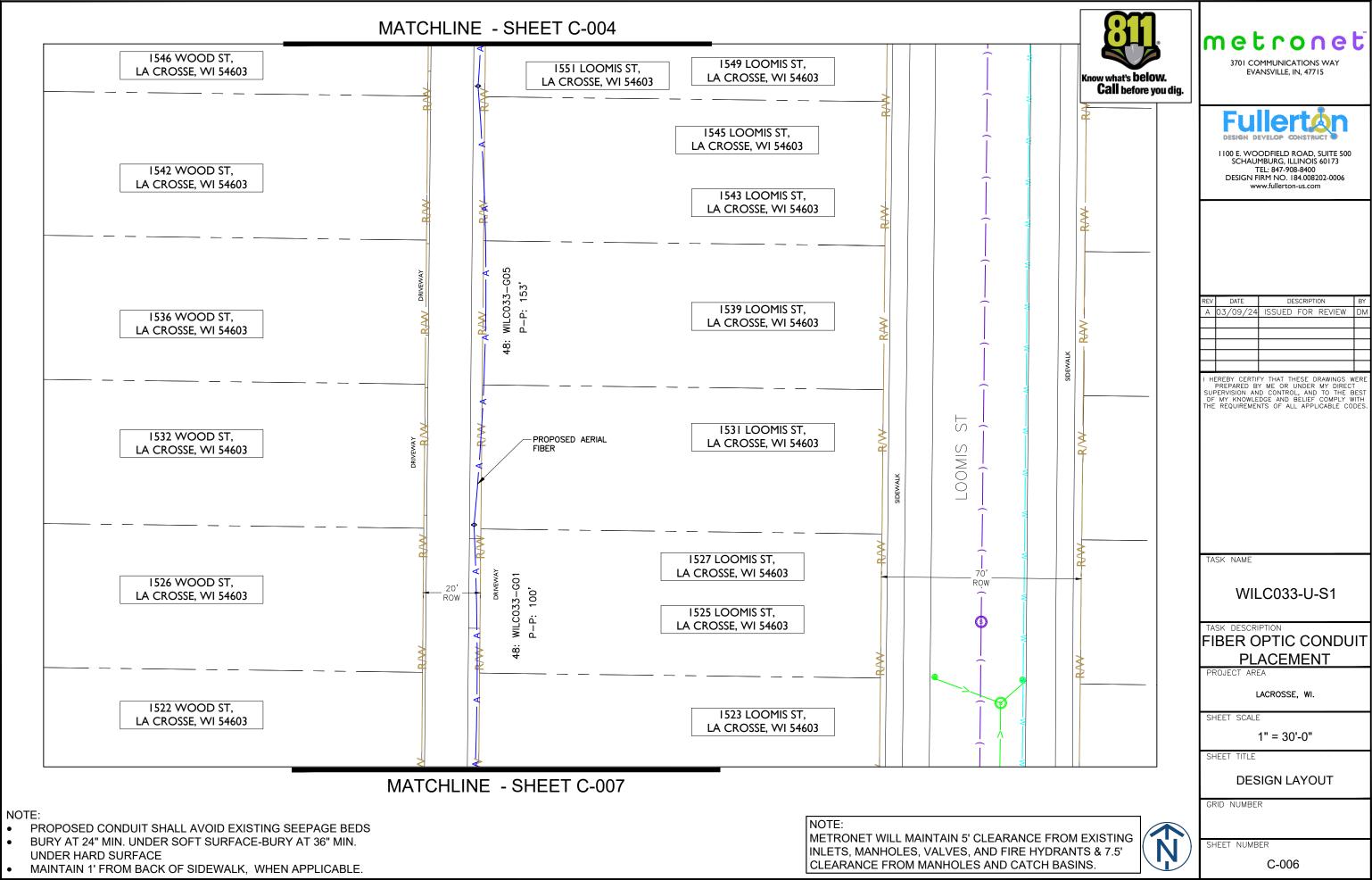


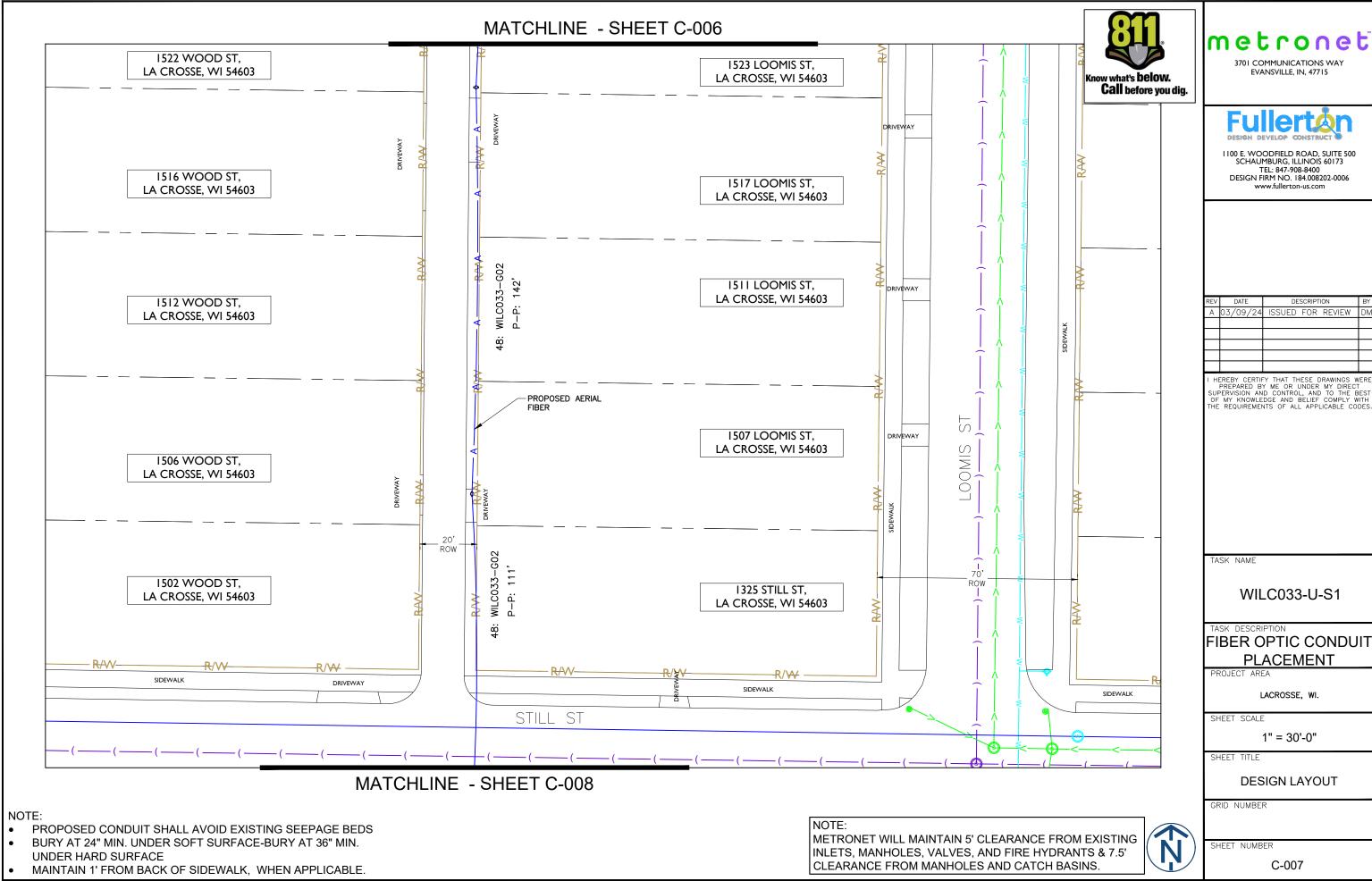


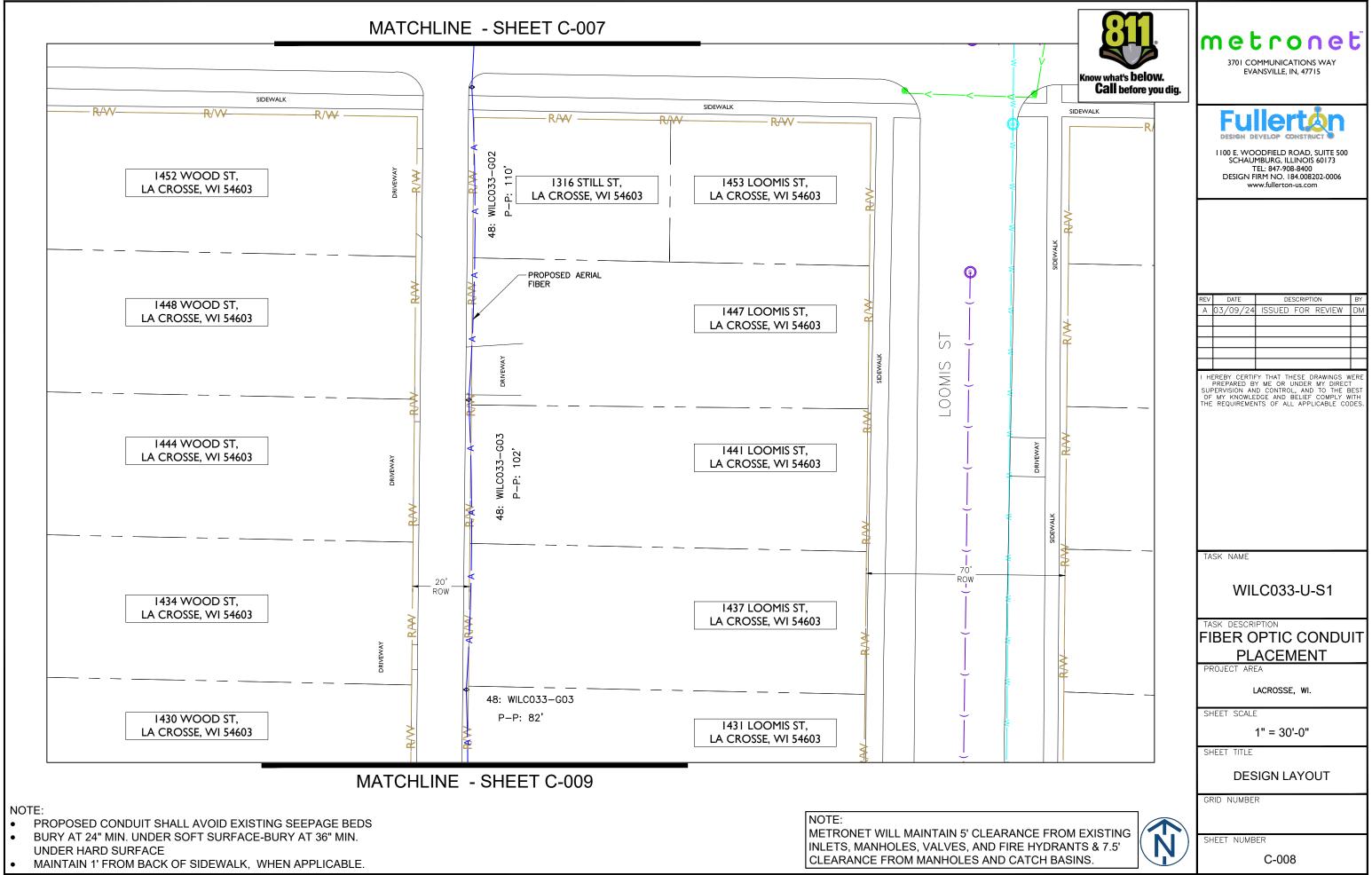


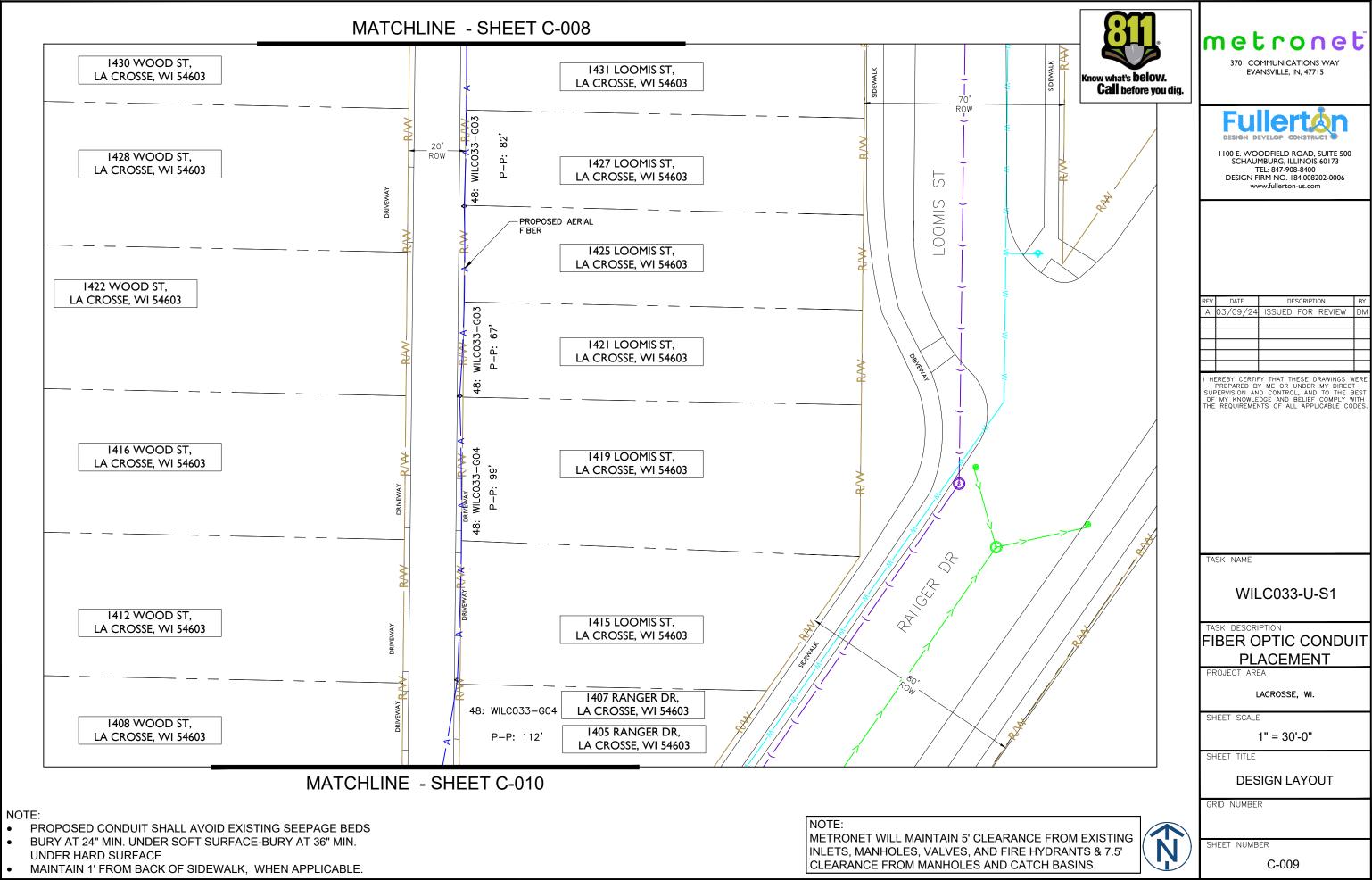




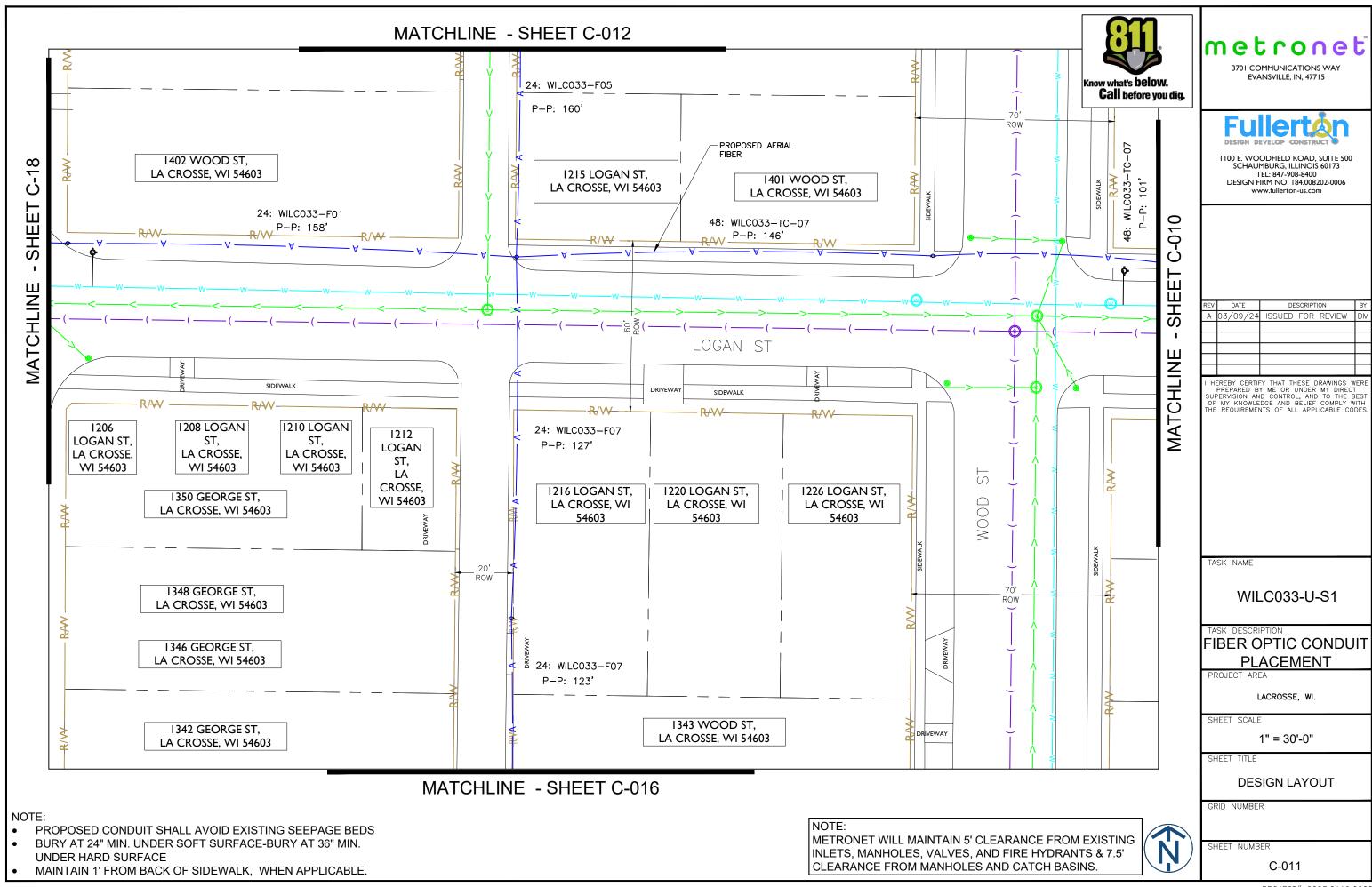


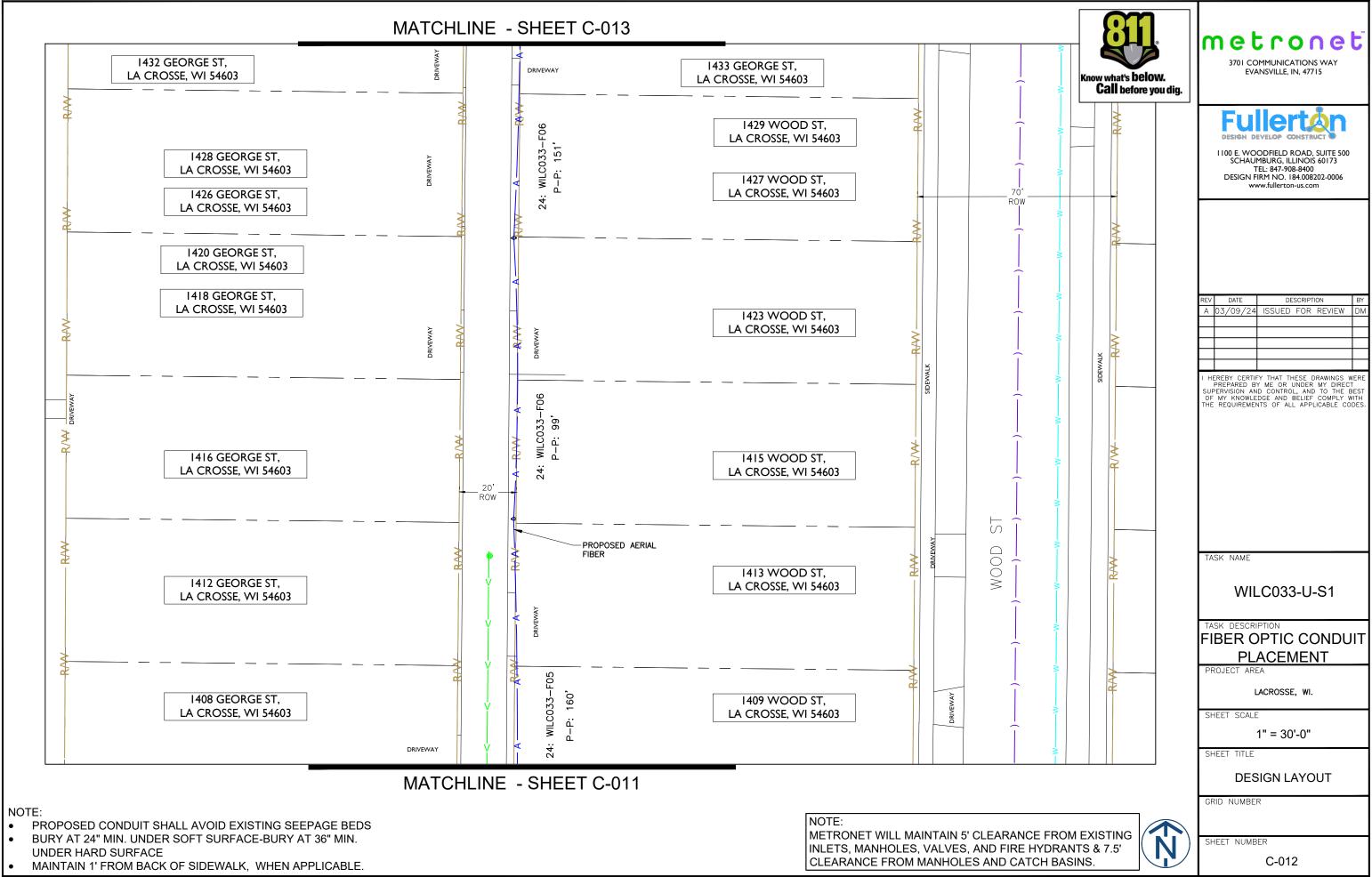


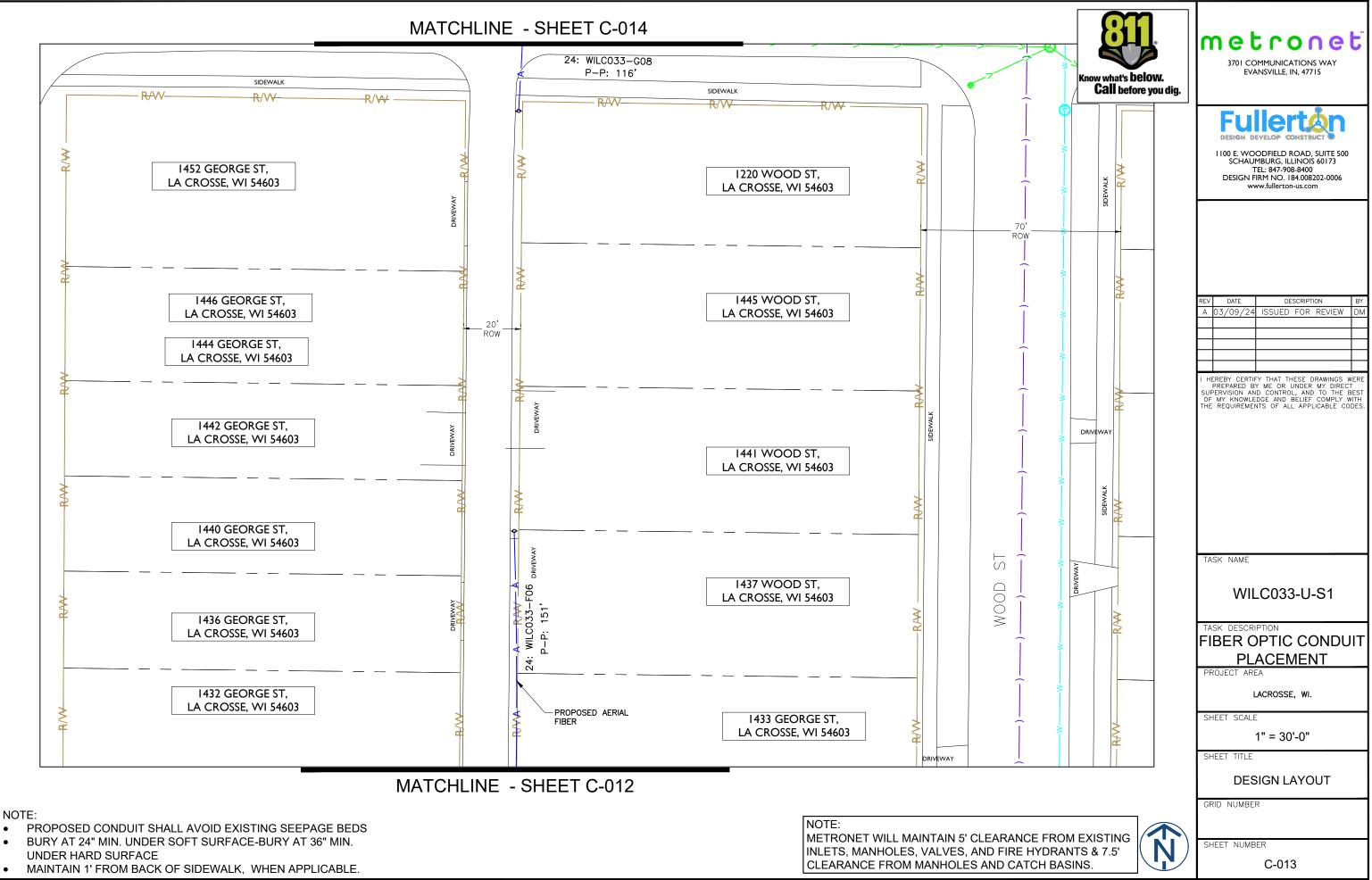


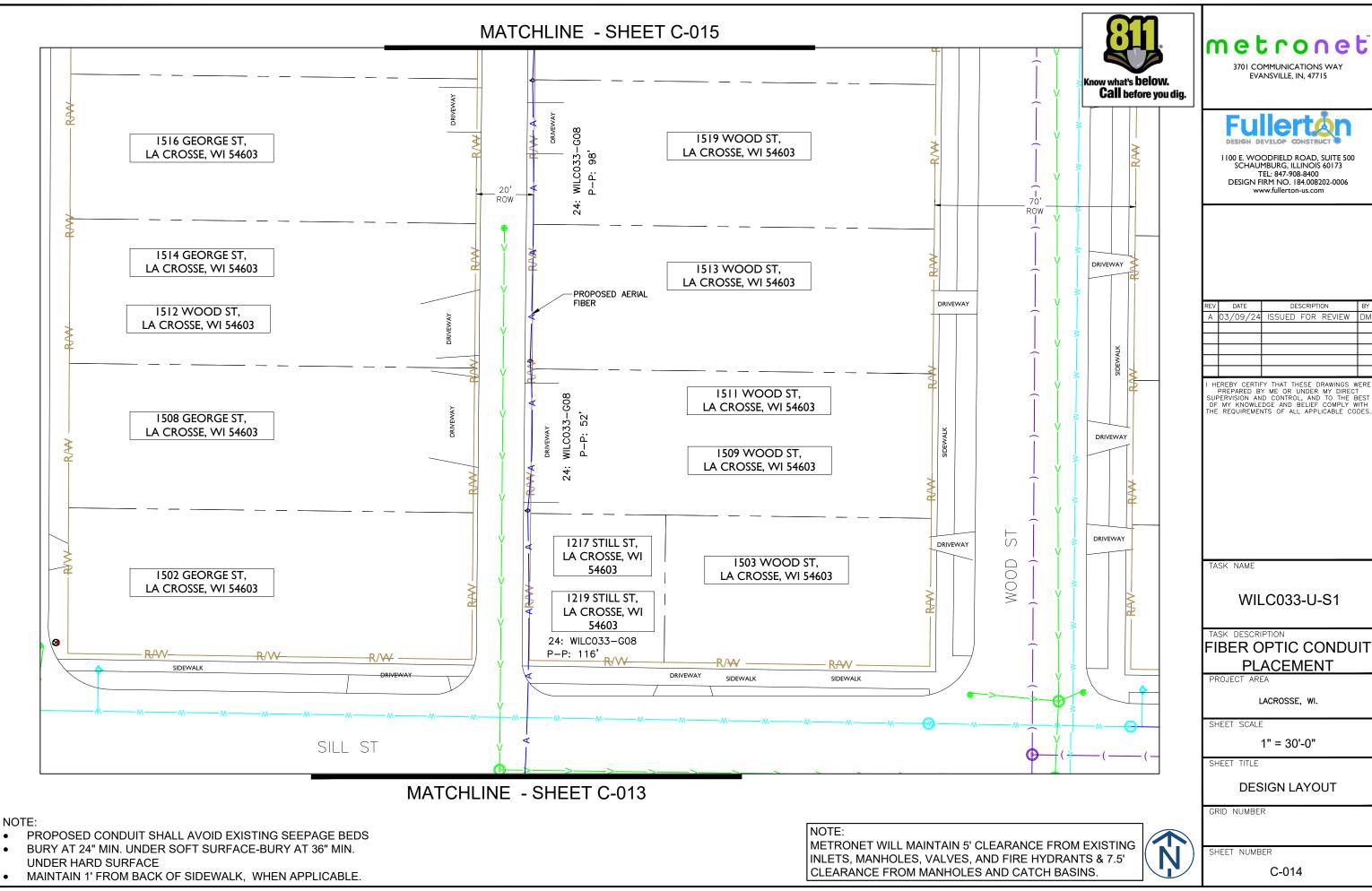


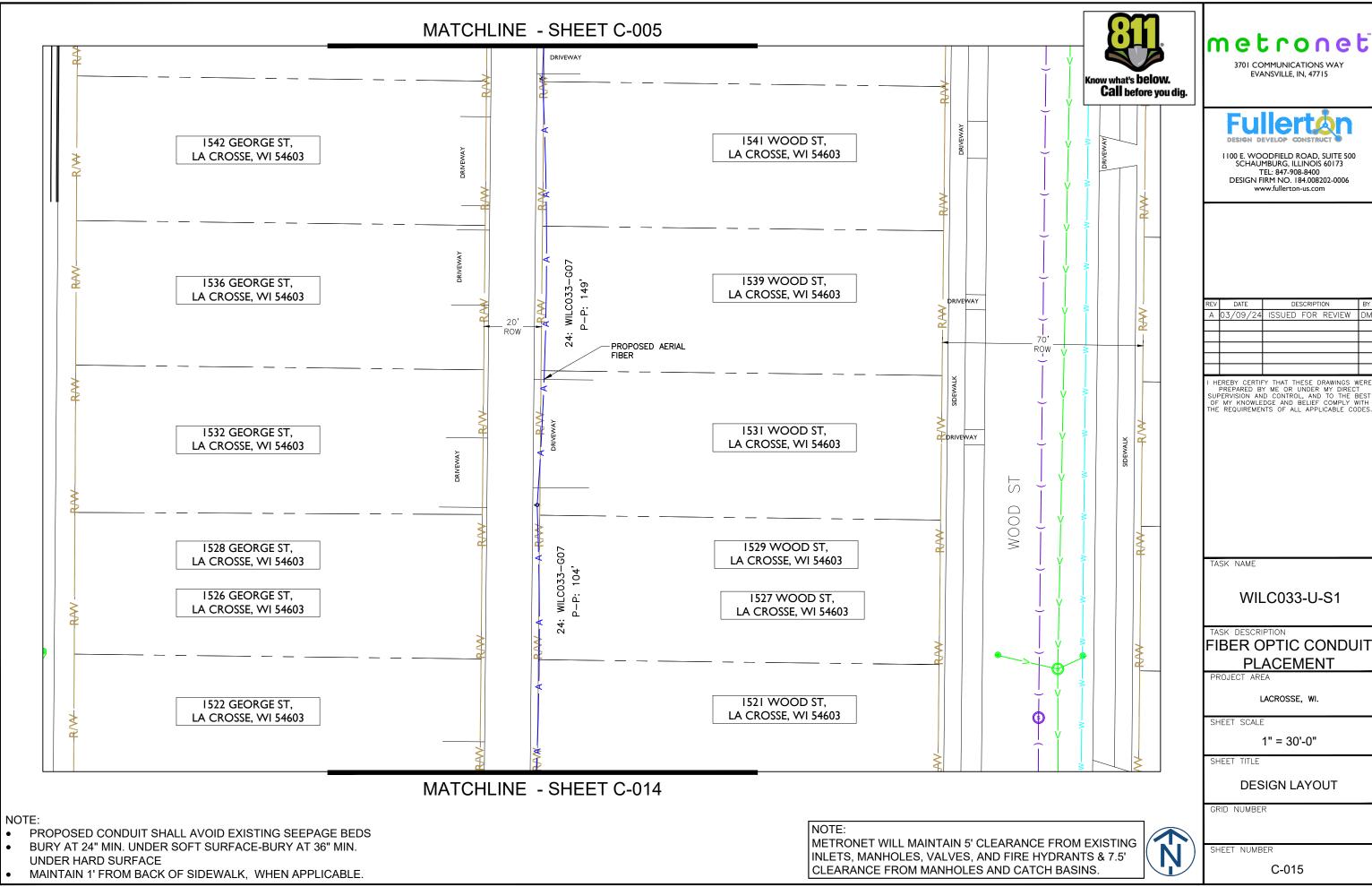
MATCHLINE - SHEET C-009 metronet 1408 WOOD ST. 3701 COMMUNICATIONS WAY 1405 RANGER DR, EVANSVILLE, IN, 47715 ow what's **below**. LA CROSSE, WI 54603 LA CROSSE, WI 54603 Call before you dig. 1319 RANGER DR, 48: WILC033-G04 1402 WOOD ST, LA CROSSE, WI 54603 P-P: 112' LA CROSSE, WI 54603 1100 E. WOODFIELD ROAD, SUITE 500 SCHAUMBURG, ILLINOIS 60173 WILC033-101 TEL: 847-908-8400 DESIGN FIRM NO. 184.008202-0006 PROPOSED AERIAL -FIBER 48: WILC033-TC-07 ROW P-P: 98' DRIVEWAY SIDEWALK SIDEWALK 9 Ó A 03/09/24 ISSUED FOR REVIEW Ш LOGAN ST SH 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. DRIVEWAY SIDEWALK R/W HS. 1352 LOGAN ST, LA CROSSE, WI 54603 TASK NAME WILC033-U-S1 1346 WOOD ST, LA CROSSE, WI 54603 TASK DESCRIPTION FIBER OPTIC CONDUIT **PLACEMENT** PROJECT AREA LACROSSE, WI. SHEET SCALE 1340 WOOD ST, 1" = 30'-0" LA CROSSE, WI 54603 SHEET TITLE **DESIGN LAYOUT** GRID NUMBER NOTE: NOTE: PROPOSED CONDUIT SHALL AVOID EXISTING SEEPAGE BEDS METRONET WILL MAINTAIN 5' CLEARANCE FROM EXISTING BURY AT 24" MIN. UNDER SOFT SURFACE-BURY AT 36" MIN. SHEET NUMBER INLETS, MANHOLES, VALVES, AND FIRE HYDRANTS & 7.5' UNDER HARD SURFACE CLEARANCE FROM MANHOLES AND CATCH BASINS. C-010 MAINTAIN 1' FROM BACK OF SIDEWALK, WHEN APPLICABLE.

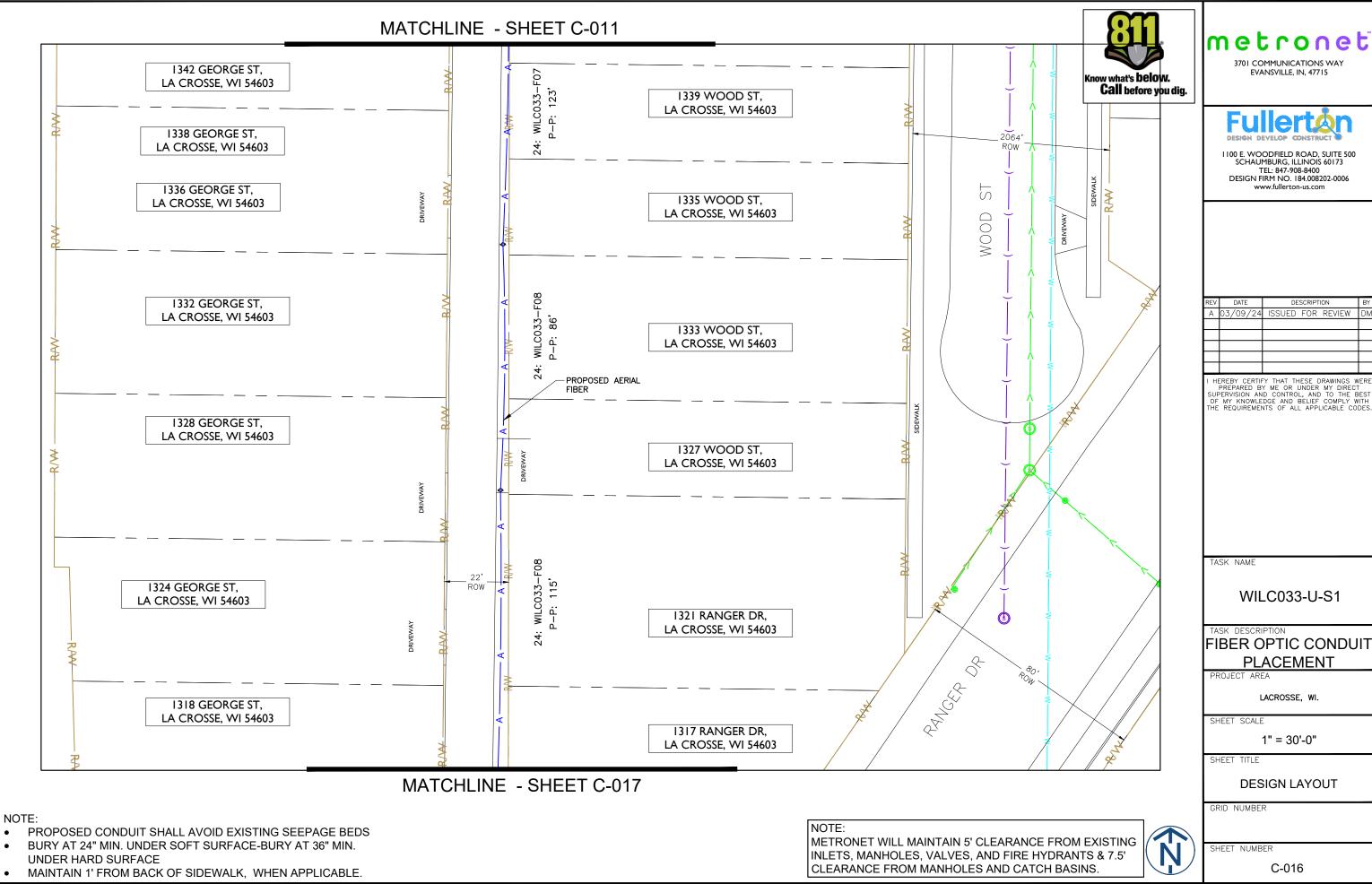


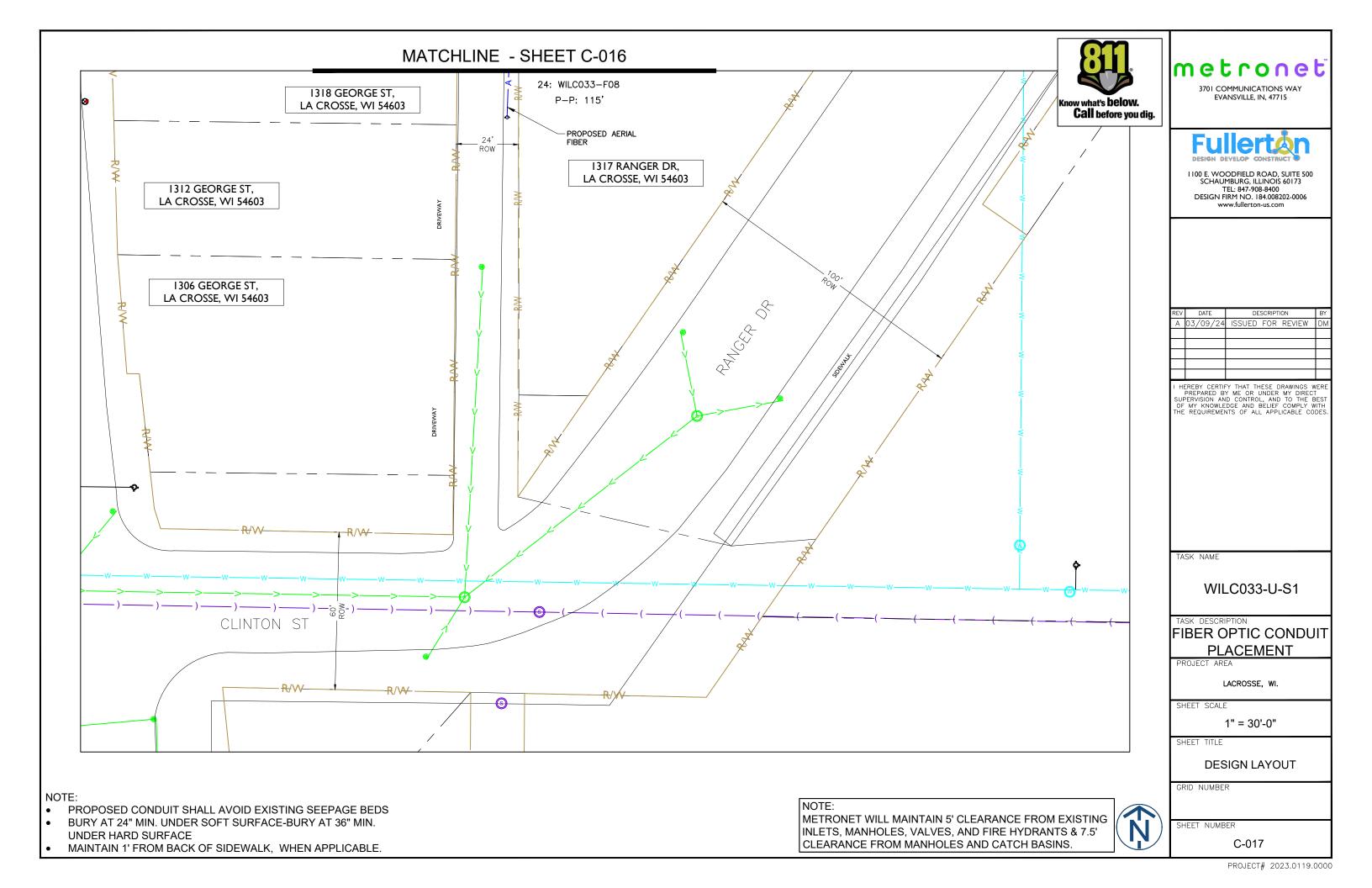


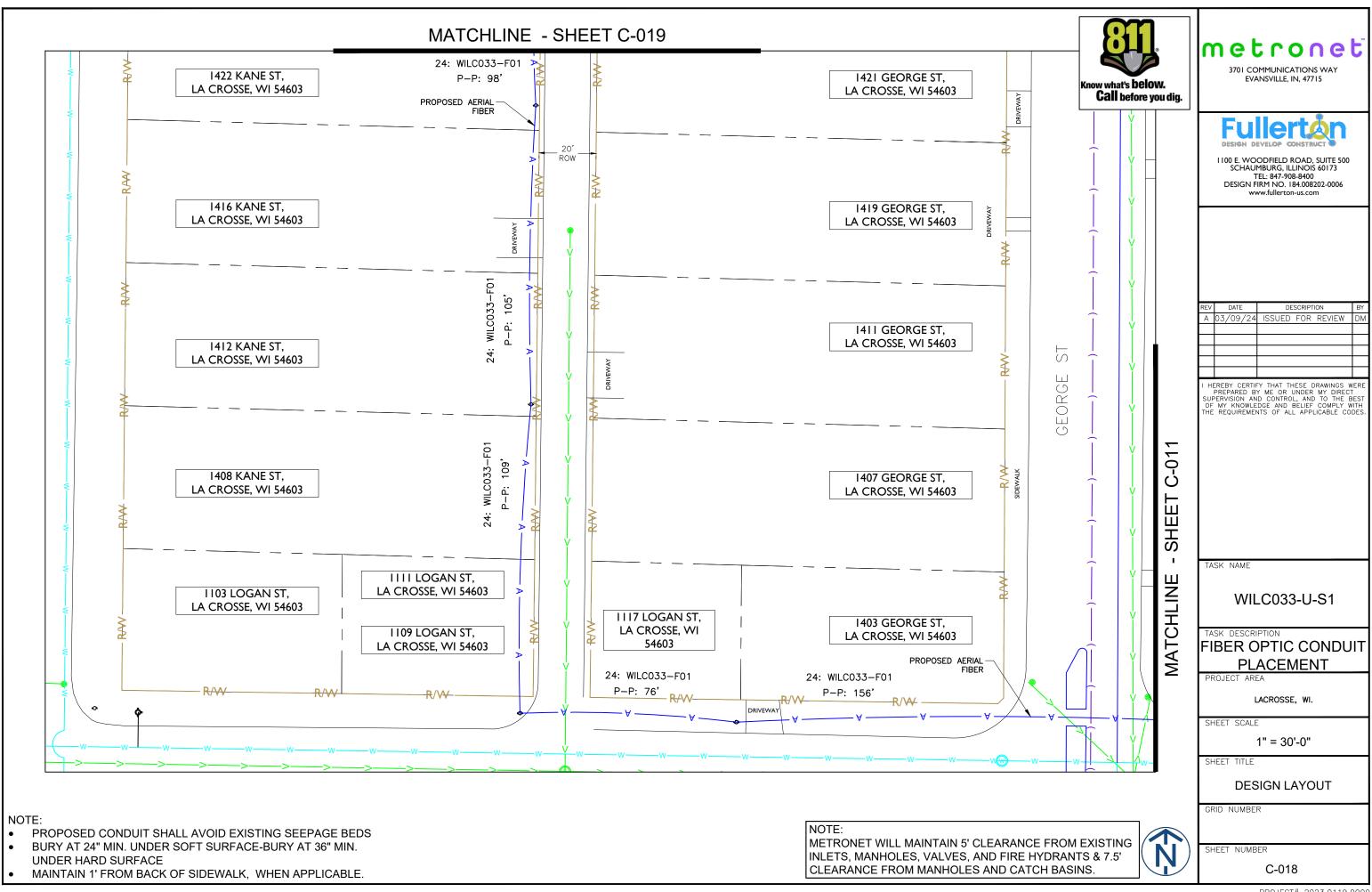


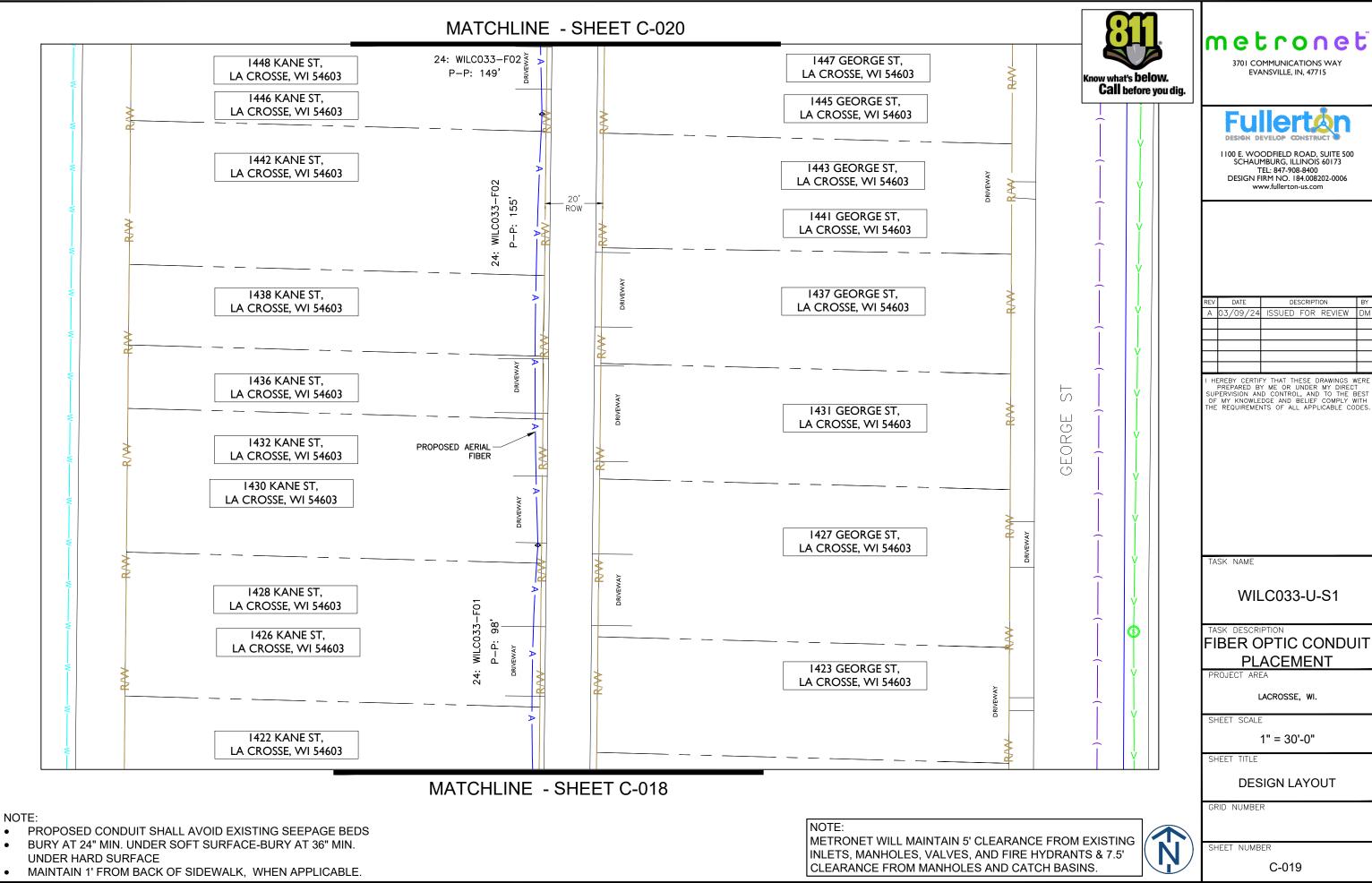


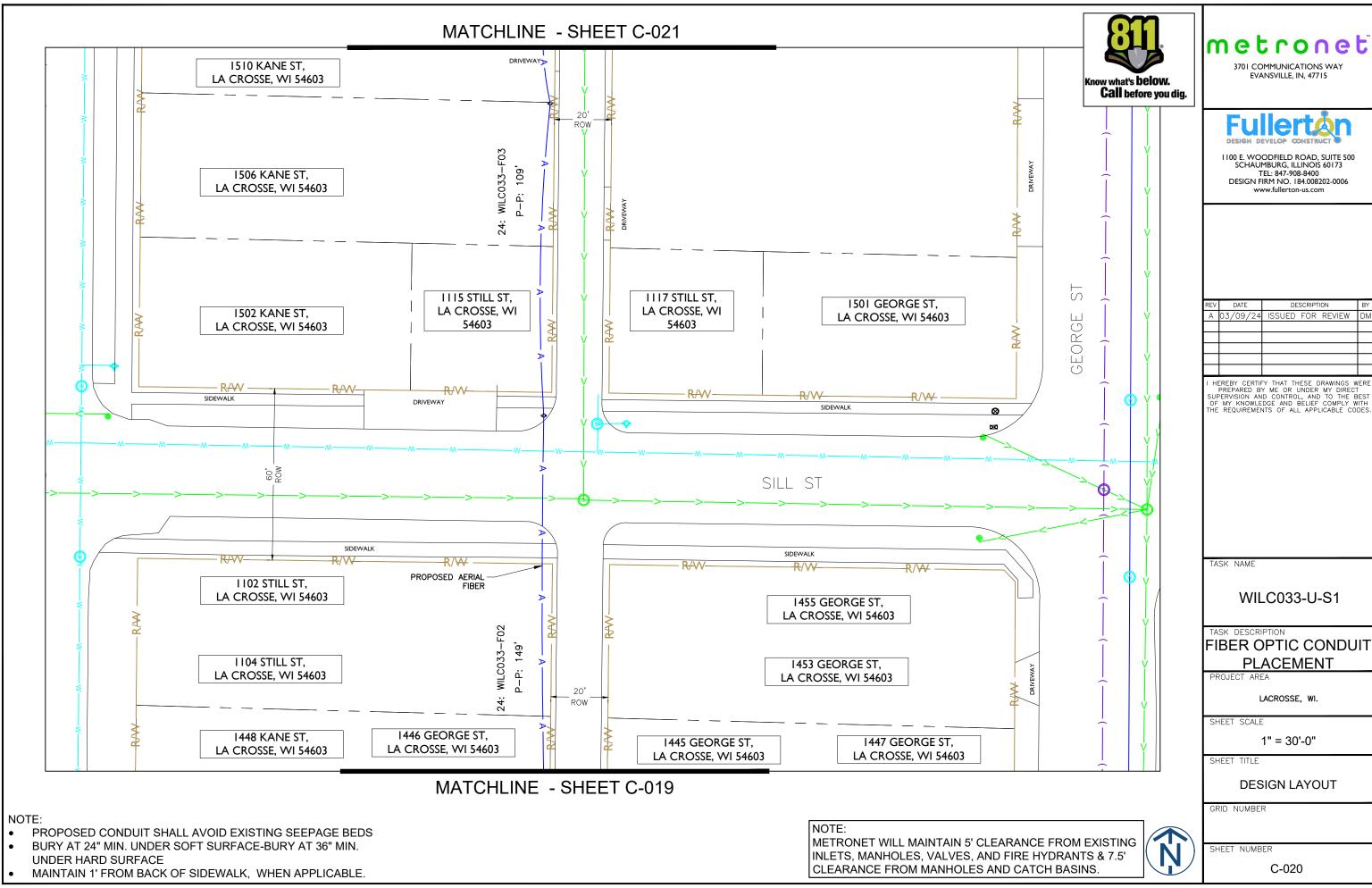


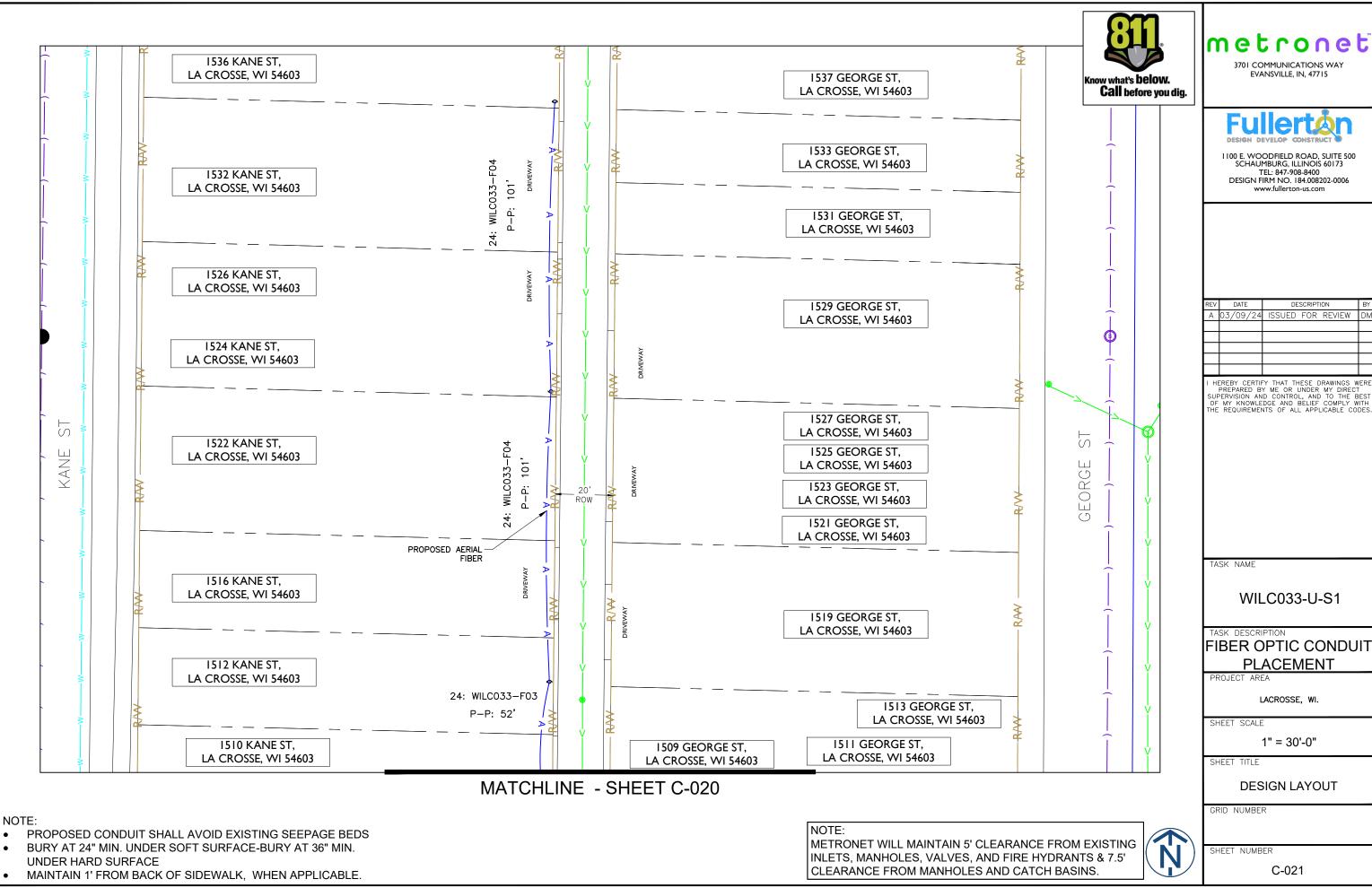












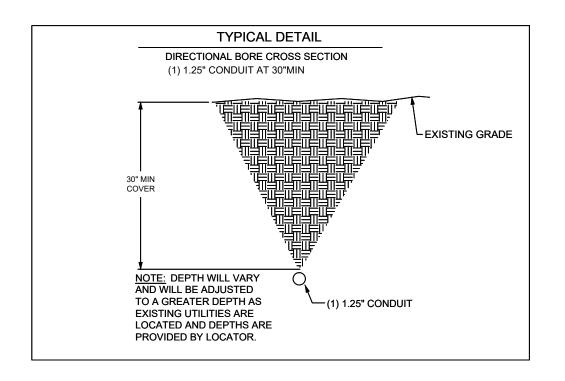
ADDITIONAL NOTES:

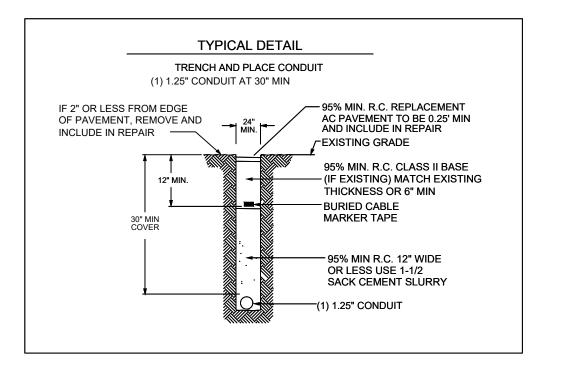
- 1. EXCEPT AS OTHERWISE NOTED, CONTRACTOR SHALL MAINTAIN A MINIMUM OF 24 INCHES OF SEPARATION FROM EXISTING UTILITIES.
- 2. CONTRACTOR SHALL POTHOLE EACH UTILITY TO DETERMINE SIZE, LOCATION, AND DEPTH PRIOR TO CROSSING.
- 3. CONTRACTOR IS CAUTIONED TO PROTECT SEWER MANHOLES, CATCH BASINS, LATERALS AND 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 PERMITING 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.







3701 COMMUNICATIONS WAY EVANSVILLE, IN, 47715



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REV	DATE	DESCRIPTION	BY
Α	03/09/24	ISSUED FOR REVIEW	DM

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TASK NAME

WILC033-U-S1

TASK DESCRIPTION

FIBER OPTIC CONDUIT PLACEMENT

PROJECT ARE

LACROSSE, WI.

SHEET SCALE

N.T.S.

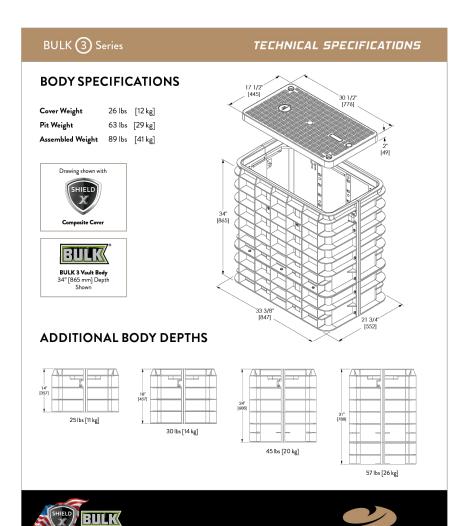
SHEET TITLE

DETAILS

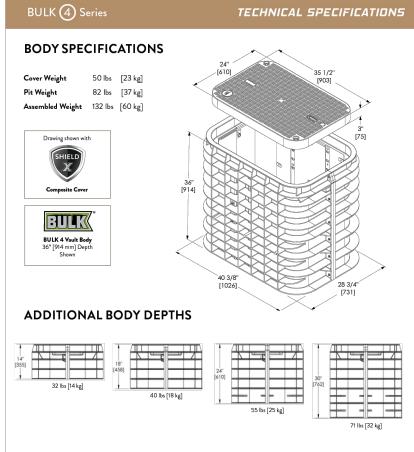
GRID NUMBER

SHEET NUMBER

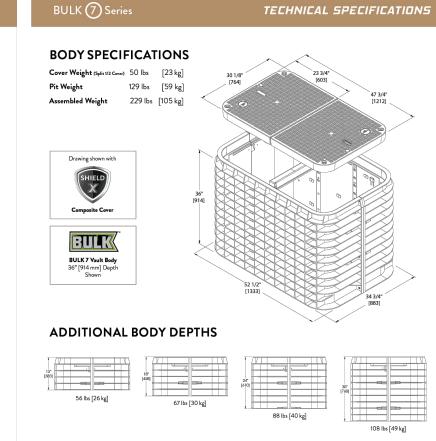
D.



CHANNELL



CHANNELL





REV	DATE	DESCRIPTION	BY
Α	03/09/24	ISSUED FOR REVIEW	DM

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TASK NAME

WILC033-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

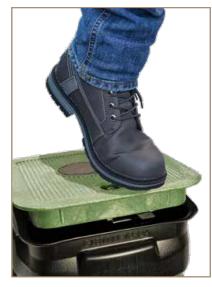




DATA SHEET

SGLB-0 NEW SIGNATURE SERIES GRADE LEVEL BOX WITH **SELFLOCK** PROTECTION





SELFLOCKTM

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



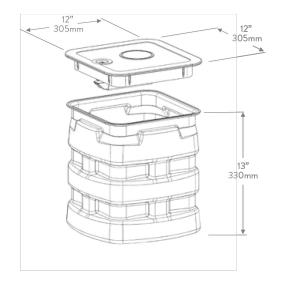


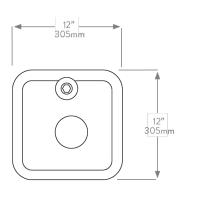


SELFLOCK closes and seals with audible "Click" Captive bolt device opens with only 1/4 turn

Shown with Optional Marker Locate Device

DIMENSIONS







Where The Industry Connects.

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

www.channell.com

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3701 COMMUNICATIONS WAY EVANSVILLE, IN, 47715



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REV	DATE	DESCRIPTION	BY
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TASK NAME

WILC033-U-S1

TASK DESCRIPTION

FIBER OPTIC CONDUIT PLACEMENT

PROJECT AREA

LACROSSE, WI.

SHEET SCALE

N.T.S.

SHEET TITLE

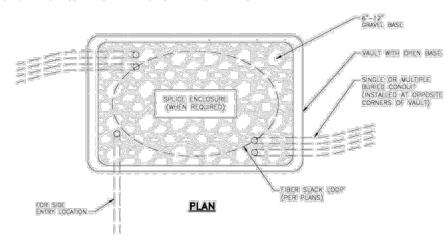
DETAILS

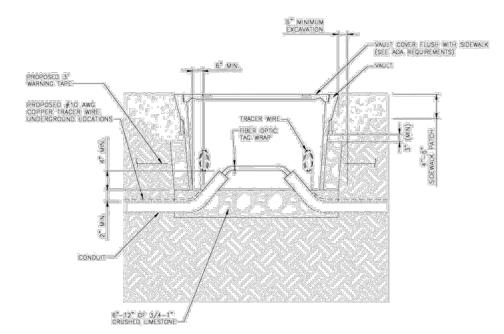
GRID NUMBER

SHEET NUMBER

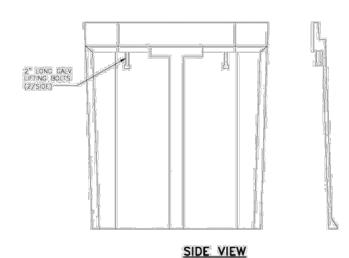
D-3

- 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 UFFING LUGS/BOLTS: WHICH WILL SERVE AS DOWELS INTO THE FINISHED CONCRETE SLAB.



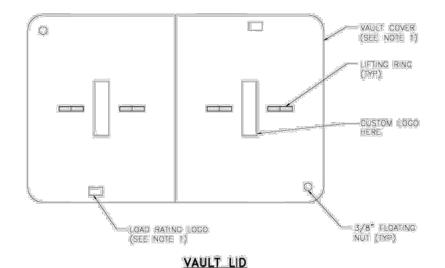


VAULT W/ BOTTOM ENTRY



NOTE:

L. ENGLOSURES, 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 THER 15 OR BETTER.



ADA REQUIREMENTS:

SURFACE LEVEL CRITERIA: NO HEIGHT DIFFERENTIALS WITH A LIP GREATER THAN 14 IN HEIGHT, EXCEPTIONS: A HEIGHT DIFFERENTIAL BETWEEN 14 AND 15 IS ACCEPTABLE IF IT IS BEVELED AT A 2:1 SLOPE, OR A HEIGHT DIFFERENTIAL GREATER THAN 15 IS ACCEPTABLE IF IT IS RAMPED WITH A SLOPE OF 8.33% (17:12H) OR LESS.

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

LET HOLES FOR UTILITY COVERS SHALL NOT HAVE AN OPENING GREATER THAN % . PLUCGING OF HOLES GREATER THAN % 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:

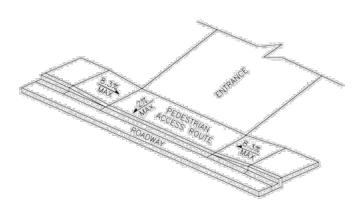
THE WALKWAY IS AT MINIMUM 3 WIDE.

GROSS 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, ILE., VEHICLES WILL NOT BOTTOM OUT WHEN DRIVING OVER THE TRANSITION.



PEDESTRIAN ACCESS ROUTE



EVANSVILLE, IN, 47715



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TASK NAME

WILC033-U-S1

TASK DESCRIPTION

FIBER OPTIC CONDUIT **PLACEMENT**

PROJECT AREA

LACROSSE, WI.

SHEET SCALE

N.T.S.

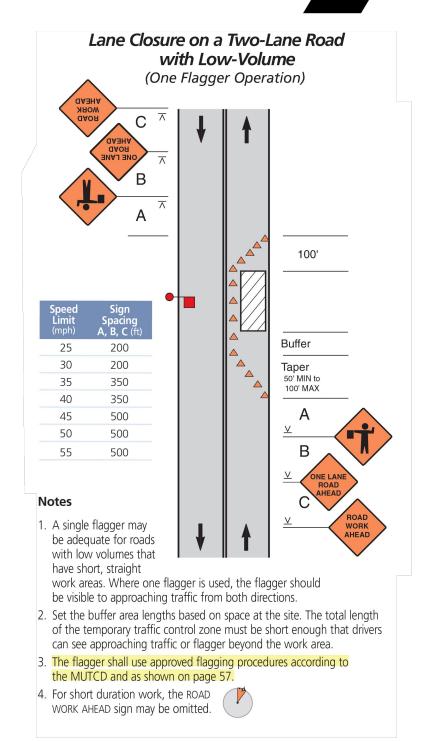
SHEET TITLE

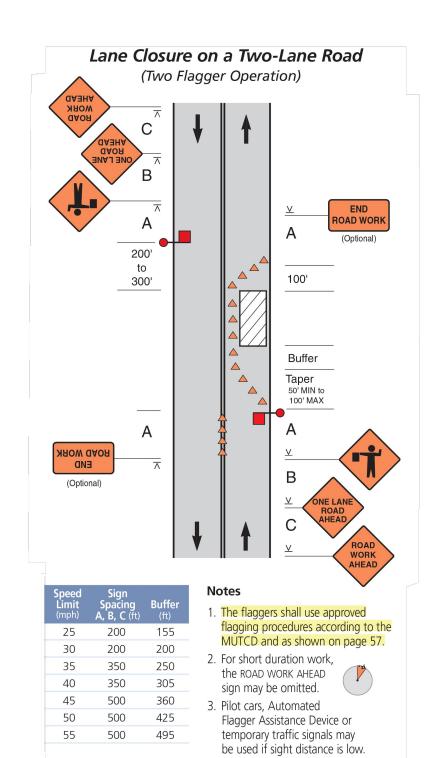
DETAILS

GRID NUMBER

SHEET NUMBER

25





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3701 COMMUNICATIONS WAY EVANSVILLE, IN, 47715



I 100 E. WOODFIELD ROAD, SUITE 500 SCHAUMBURG, ILLINOIS 60173 TEL: 847-908-8400 DESIGN FIRM NO. 184.008202-0006

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Α	03/09/24	ISSUED FOR REVIEW	DM

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TASK NAME

WILC033-U-S1

TASK DESCRIPTION

FIBER OPTIC CONDUIT PLACEMENT

PROJECT AREA

LACROSSE, WI.

SHEET SCALE

N.T.S.

SHEET TITLE

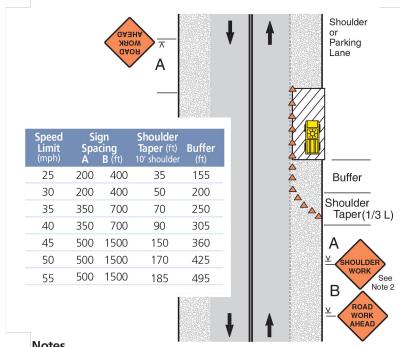
TRAFFIC CONTROL STANDARD DETAILS

GRID NUMBER

SHEET NUMBER

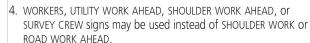
TCP-1

Work on Shoulder or Parking Lane on Two-Lane Two-Way Road



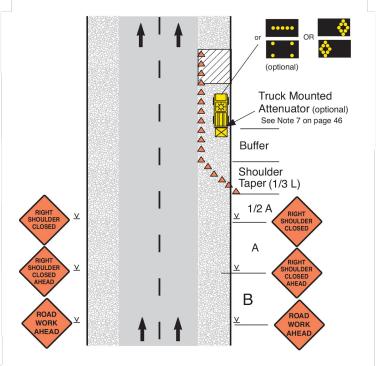
Notes

- 1. Encroachment into the traffic lane is allowable, but a 10-foot minimum travel lane width should be maintained. A lane closure should be considered if there is encroachment on roads with speeds greater than 35 mph, or for other conditions where workers, equipment, or the work activity would benefit from the lateral buffer (see pages 22 and 23).
- 2. If there is encroachment into the traffic lane, a ROAD NARROWS sign may be used instead of SHOULDER WORK. For roads with low volume, the SHOULDER WORK or ROAD NARROWS sign can be omitted.
- 3. For short duration work, the channelizing devices may be omitted if a vehicle with activated high intensity lights is used. For short duration work with no lane encroachment, the signs may also be omitted.



5. When work area is at least 2' from traffic lane on roads with low volume and speeds of 35 mph or less, the sign on opposite side can be omitted.

Shoulder or Parking Lane Closed on Divided or One-Way Roadway



35

40

350

350

60 1000 1500

65 1000 1500

1000 1000

1000 1000

1000 1000

350

350

70

90

150

170

185

200

220

250

305

360

425

495

570

645

730

Notes

- 1. SHOULDER CLOSED signs should be used on limitedaccess highways where there is no opportunity for disabled vehicles to pull off the traveled way.
- 2. For short-term stationary work, one SHOULDER CLOSED warning sign can be omitted.
- 70 1000 1500 235 3. For short duration work, the channelizing devices can be omitted if a vehicle with activated high intensity lights is used. For short duration work with no lane encroachment, the signs can also be omitted.
- 4. UTILITY WORK AHEAD, SURVEY CREW or WORKERS signs can be used instead of the ROAD WORK AHEAD signs shown.
- 5. If the parking lane is used as a traffic lane follow the lane closure layout. See page 32.

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TASK NAME

WILC033-U-S1

TASK DESCRIPTION

FIBER OPTIC CONDUIT **PLACEMENT**

LACROSSE, WI.

SHEET SCALE

N.T.S.

SHEET TITLE

TRAFFIC CONTROL STANDARD DETAILS

GRID NUMBER

SHEET NUMBER

TCP-2



information on flagging procedures. epd.wisc.edu/tic



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TASK NAME

WILC033-U-S1

TASK DESCRIPTION

FIBER OPTIC CONDUIT **PLACEMENT**

PROJECT AREA

LACROSSE, WI.

SHEET SCALE

SHEET TITLE

N.T.S.

TRAFFIC CONTROL STANDARD DETAILS

GRID NUMBER

SHEET NUMBER

TCP-3

