

ROW CONSTRUCTION PROJECT NOTES

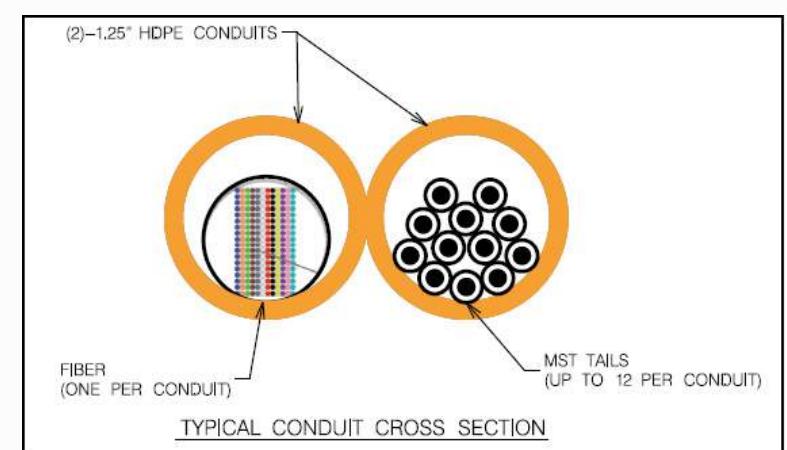
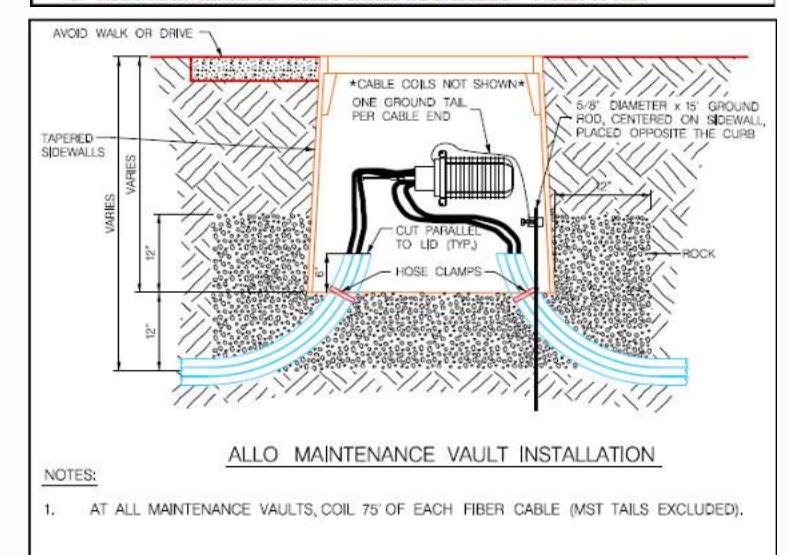
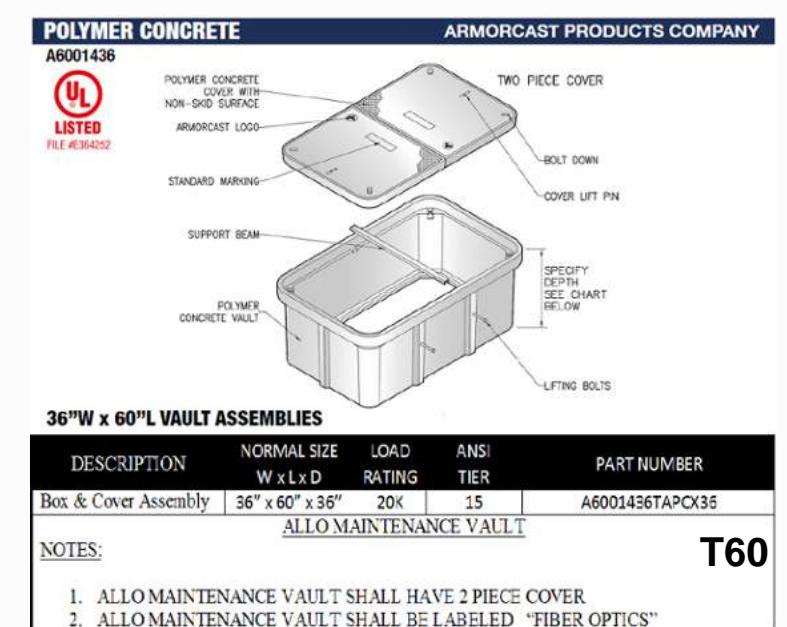
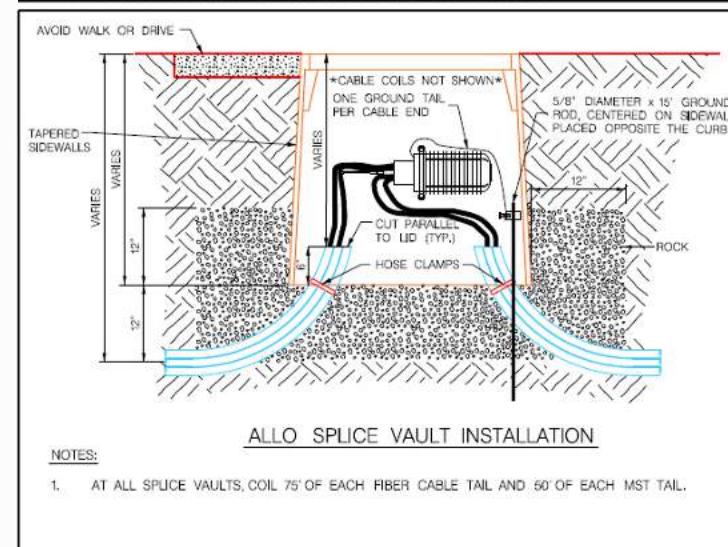
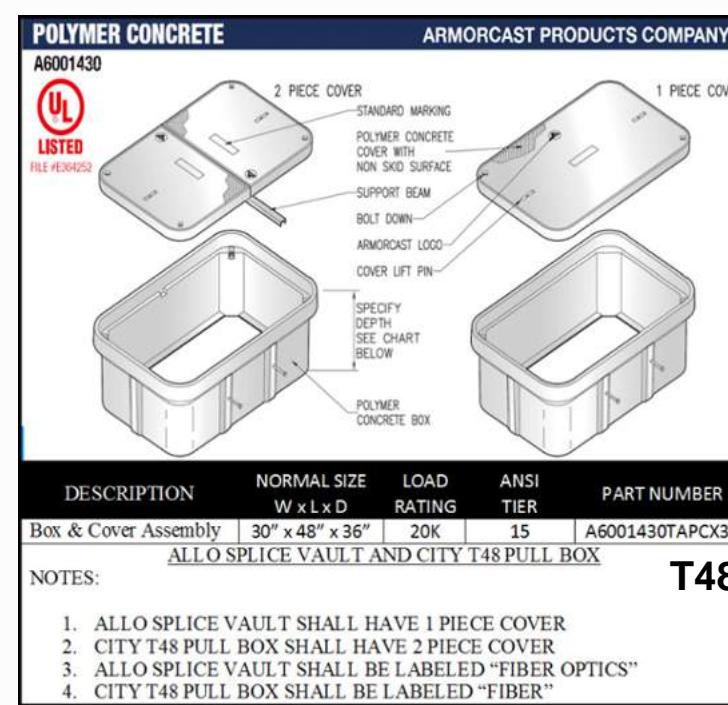
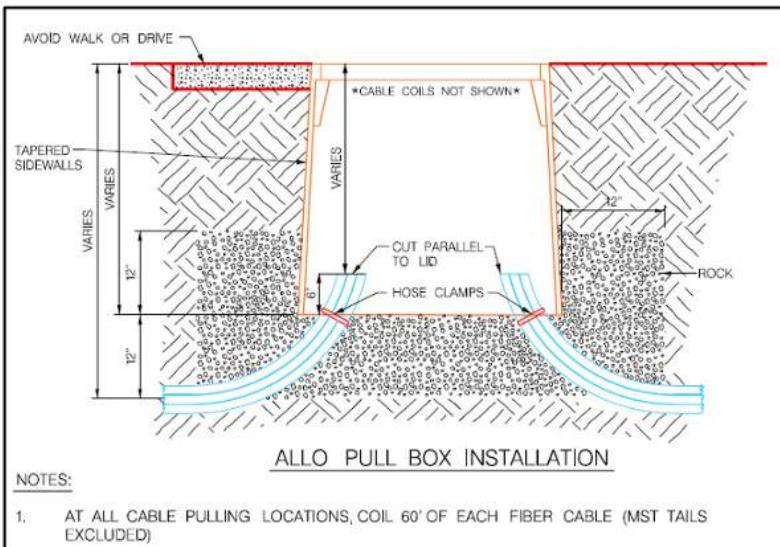
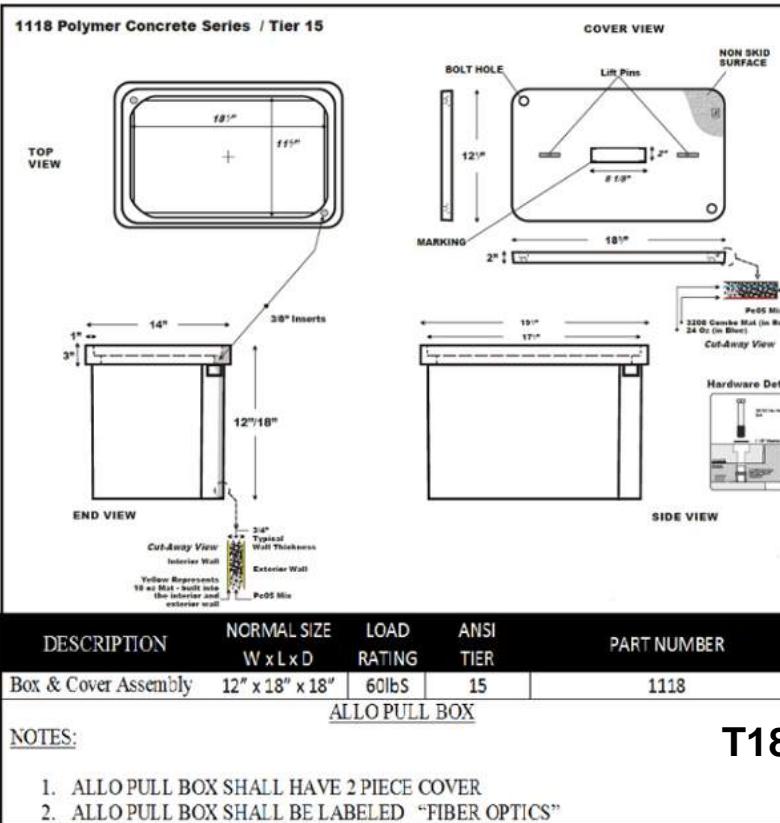
1. The City shall be notified a minimum of forty eight (48) hours in advance of initial project construction.
 2. The contractor shall adhere to the current City standard specifications, approved special provisions, City standard plans, right-of-way construction procedures manual.
 3. The locations of all aerial and underground utility facilities may not be indicated on the project plans. The contractor is required to contact the One Call 811 notification center (dial 811) forty-eight (48) hours prior to working in the city right of way. No excavation will be permitted in the area of the underground utilities until all facilities have been located and identified to the satisfaction of all parties. The contractor shall be responsible for protection of all underground and aerial utilities and infrastructure.
 4. Whenever underground facilities are in close proximity to the proposed pathway location or whenever the vertical location of the underground facility is unknown, the permittee shall use special measures to determine the locations of such underground facilities.
 - a. If the permittee is conducting the excavation by digging from the surface, when in a close proximity to the underground facilities, the permittee shall use hand digging, hydro excavating, air excavating, or any other techniques that are approved by the City to locate such facility.
 - b. If the permittee is conducting the excavation by tunneling or boring, the permittee shall determine the vertical location of the underground facility by potholing or any other method approved by the City.
 5. Project plans shall dimension new facilities being installed. Measurements shall be taken from existing adjacent visible structures (curbs, poles, cabinets, manholes, inlets, fire hydrants, etc.) clearly identifying location of such facility. The contractor shall verify dimensions taken from city files.
 6. Unless specified on the plan sets, the depth of installed facilities in city row shall be at a minimum as follows.
 - a. Thirty-two (30) inches in soil, if rock present and is an issue twenty-four (24) inches can be used.
 - b. Forty-two (42) inches below a projected slope from the flow line of a ditch at a three (3) horizontal and one (1) vertical slope.
 - c. Forty-eight (48) inches under a roadway measured from the surface of said roadway to the top of the installation.
 - d. Forty-eight (48) inches under a storm water or creek channel design bottom of pipe, and
 - e. Maintain a minimum of twenty-four (24) inches of vertical and horizontal spacing from existing utilities.
 - f. Be located as far from the existing or proposed curb line as possible to avoid potential future conflicts.
 7. All potholes in sidewalk panels will be filled unless directed by City inspector. If colored, textured or patterned concrete is existing, replacement patches, and panels will be replaced to match as practicable. Owner may be required to put money into escrow to cover all repairs prior to starting work.
 8. All non-street surface materials that are disturbed by excavation and backfilling operations shall be replaced and restored.
 9. City street surface materials disturbed shall be backfilled, tamped and repaved by city forces or approved paving contractor.
 10. All Conduit, vaults and Pedestals shall be located in the public ROW and in public utility easements.
 11. All Aerial shown on attached planset will be permitted separately by Pole Owners. All pole permits submitted to pole owners will follow NESC codes.
12. If sidewalk, wheel chair ramps or any portion of the pedestrian facilities are removed or closed, a pedestrian detour shall be established and maintained during the time of the closure and the entire pedestrian facility shall be restored within seventy-two (72) hours, unless the contractor provides a hard surface alternate route approved by the city.
 13. All pedestrian detours and any reconstruction of pedestrian facilities shall meet current Americans with Disability Act (ADA) standards and specifications.
 14. All pedestrian detours shall be part of an approved Traffic Control Plan (TCP).
 15. All holes made in city pavements for the purpose of performing vacuum excavations to locate underground utilities shall be restored to their original condition with the reinstated core flush with and in the original orientation as the existing surface matching existing pavement surface appearance.
 16. When the contractor is not actively working, all equipment, fencing, debris, etc, shall not be placed within the triangular area required for sight distance of vehicles exiting or entering an adjacent property or intersection.
 17. All excavations shall be adequately fenced and covered when contractor is not present or project site left unattended.
 18. No lane closures allowed on arterial streets during AM and PM peak hours unless approved by City Traffic and Right of Way Construction section(s) staff.
 19. All work zone traffic control, including pedestrian control measures, shall be in compliance with the MUTCD, ADA, and the City Standard Specifications.
 20. The contractor shall notify all affected owners of adjacent properties a minimum of forty-eight (48) hours prior to beginning of construction and provide updates to the affected owners when construction phases change that affect the areas of work associated with the permit.
 21. The contractor shall maintain a set of "as built" plans on site with dimensioning. These plans shall be presented upon request to any city representative.
 22. A current city right of way construction permit and city approved plan set shall be maintained on each work site by the contractor. The contractor shall present such permit and plan set upon request to any city representative.
 23. Any field adjustments to installation of facilities, which vary from the plans that have been submitted and approved during the permit application process, shall comply with the following:
 - a. The contractor must stop work immediately and contact the facility owner.
 - b. The facility owner's representative shall contact the city's construction inspector and provide him with the details of the proposed changes.
 - c. The City inspector will make a determination on how to proceed. This determination may range from approval over the phone or via email to delaying the project until plans can be updated and appropriate review can be conducted.

Special Notes

1. All conduit shall be bored unless specified otherwise.
2. Contractors shall notify land owner prior to work on all private developments.
3. A reminder to the reader. the drawings are scaled, thus dimension is available at all locations.
4. The contractor shall bypass all MST pedestals with distribution conduit where installed parallel to MST conduit. Similarly, bypass the T18 "Flowerpot" with MST conduit where installed parallel to future drop conduit.

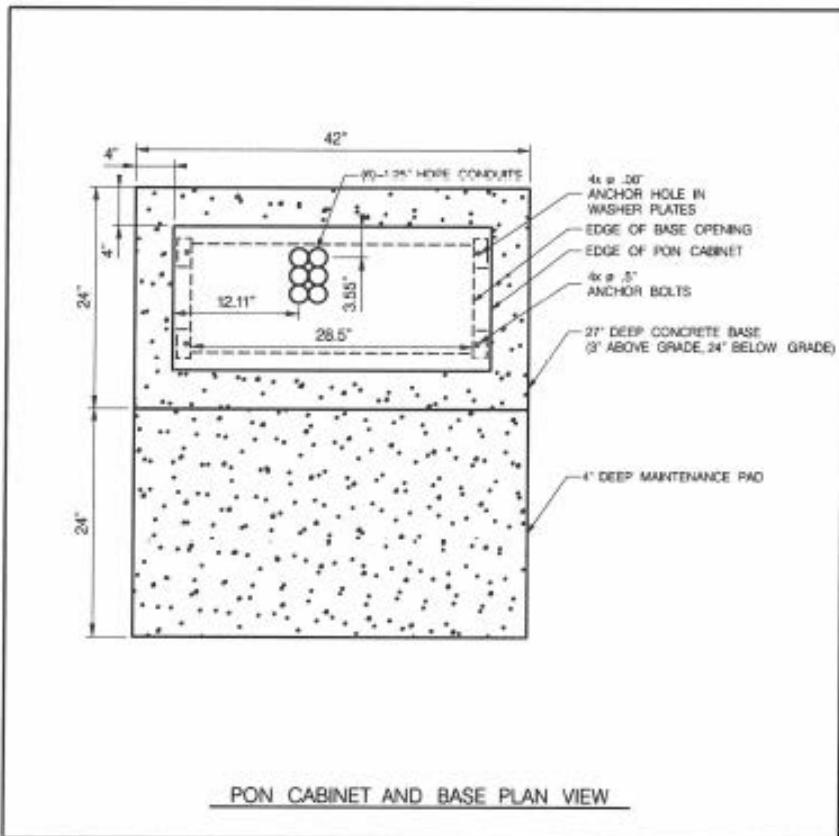
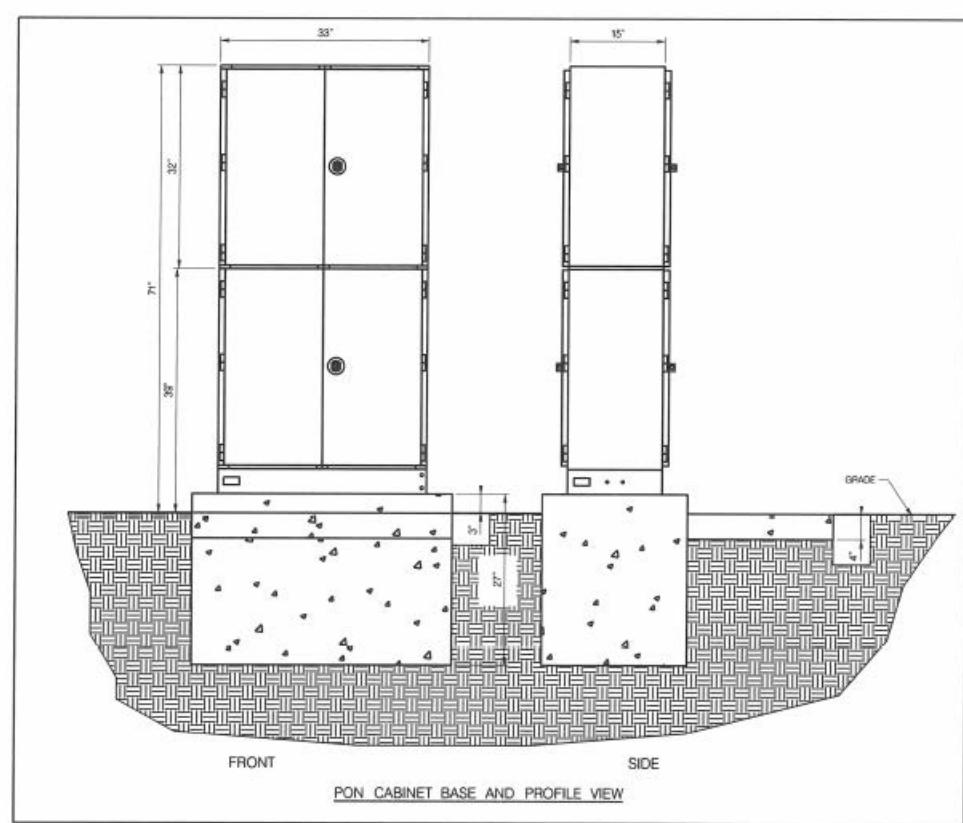


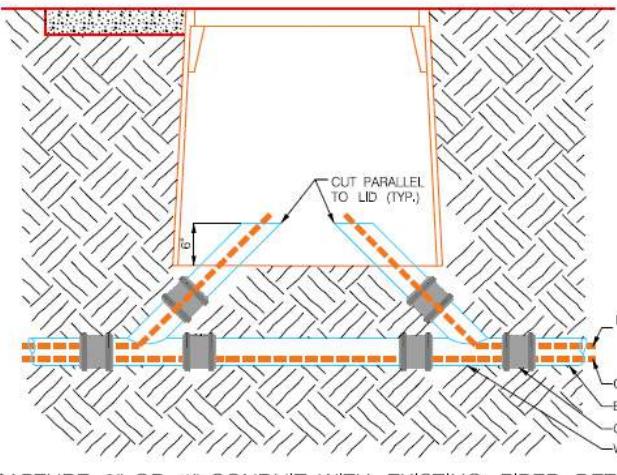
Typicals



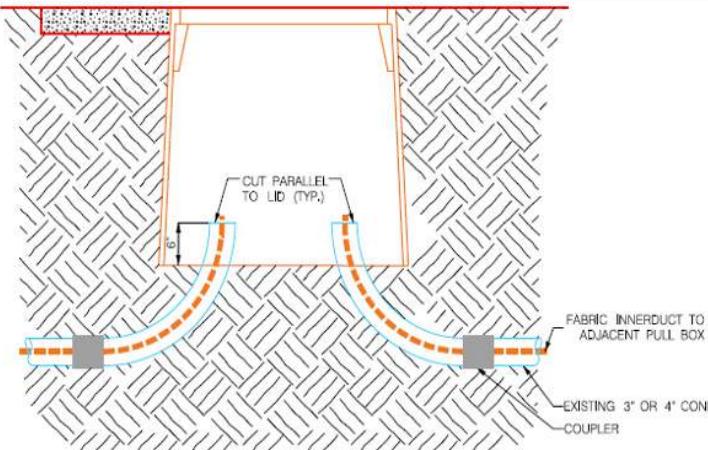
Nebraska 811
Know what's below.
811 before you dig.

Typicals

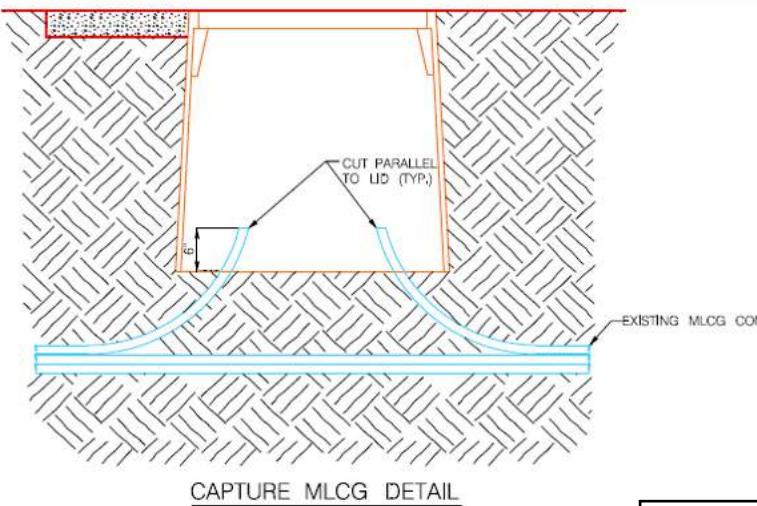




CAPTURE 3" OR 4" CONDUIT WITH EXISTING FIBER DETAIL

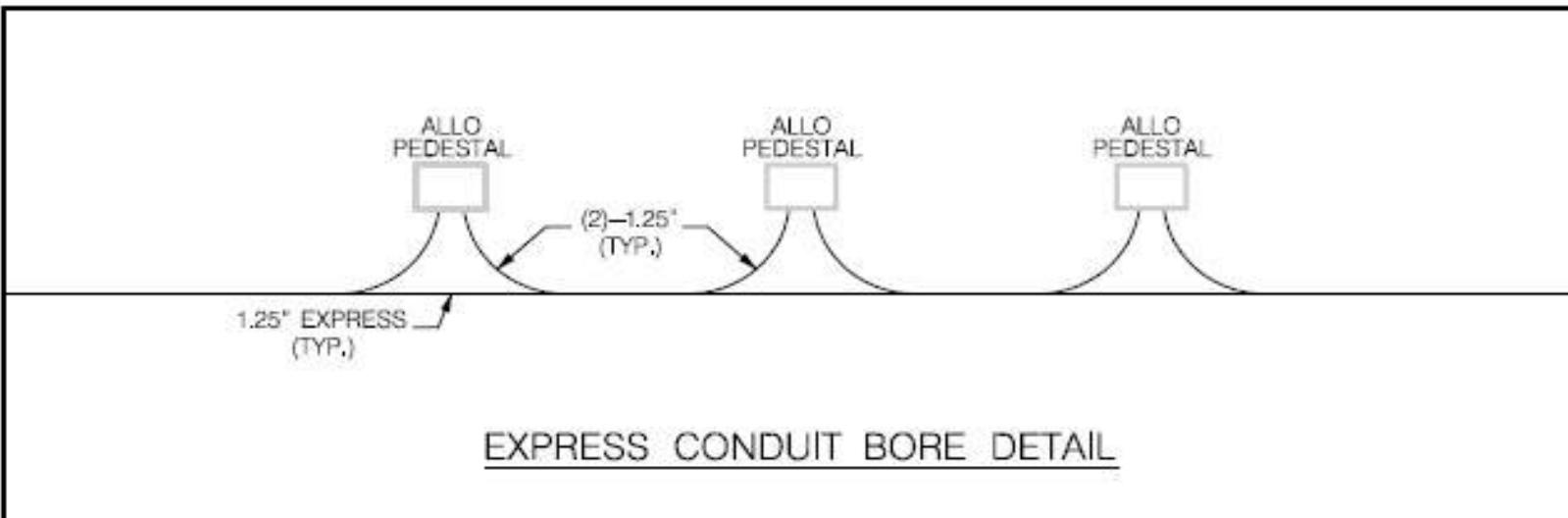


CAPTURE EMPTY 3" OR 4" CONDUIT DETAIL



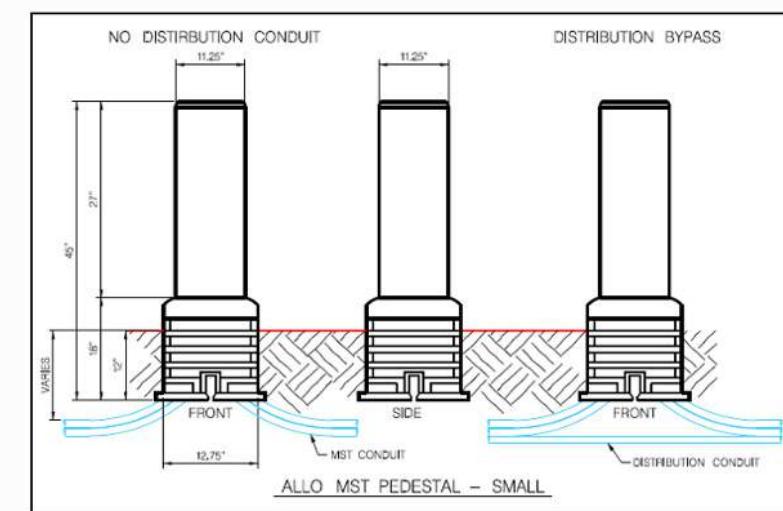
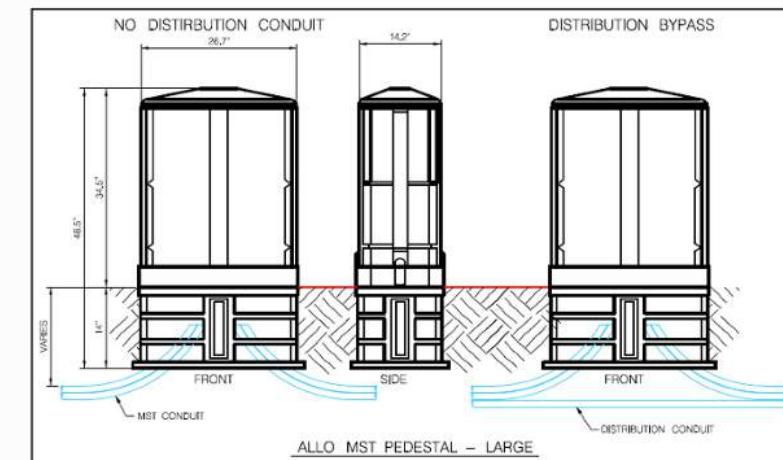
CAPTURE MLCG DETAIL

Express Conduit are detailed by midspan call outs.
48f - 288f, 1 - 1.25" per cable Should be expressed to T36, T48, T60 boxes bypassing pedestals.
432f - 864, 1 - 2.0" per cable Should be expressed to T36, T48, T60 boxes bypassing pedestals.



EXPRESS CONDUIT BORE DETAIL

Typicals here represent various sweeps of conduit.
Follow City standards for bedding.
MLCG stands for Main Line Conduit Group, any
bundle of conduit placed in the ground together.

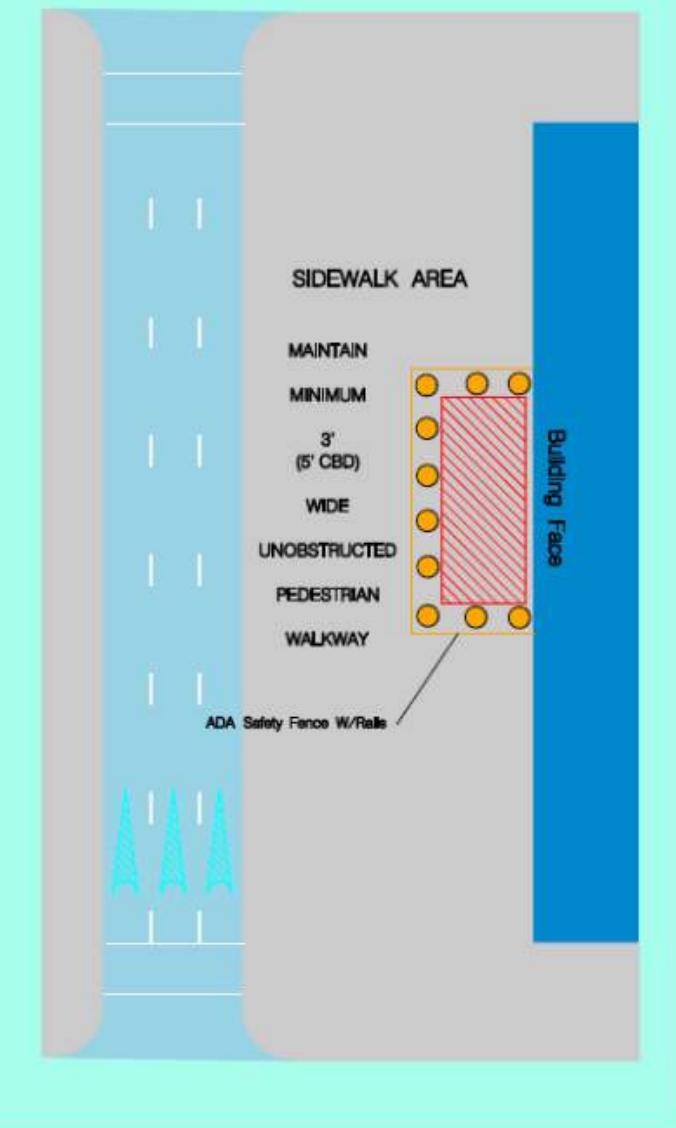


Nebraska 811
Know what's below.
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12

WORK IN THE PEDESTRIAN AREAS

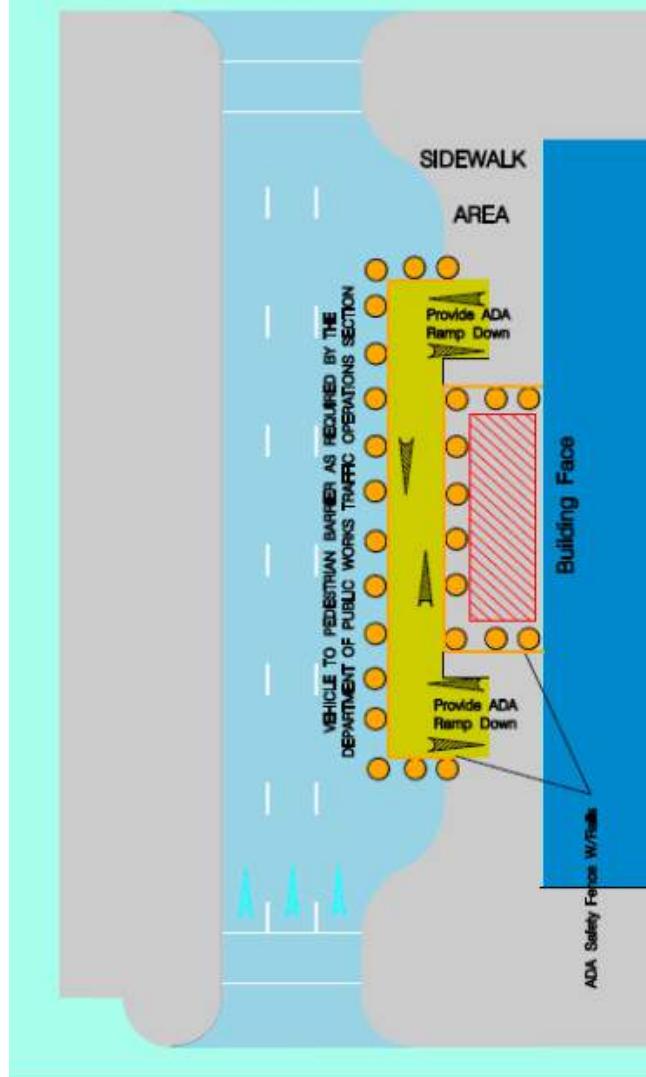
Maintain a clear and unobstructed pedestrian walkway around the work zone, or post warning signs for closures at adjoining intersections.

**13**

WORK IN THE PEDESTRIAN AREAS

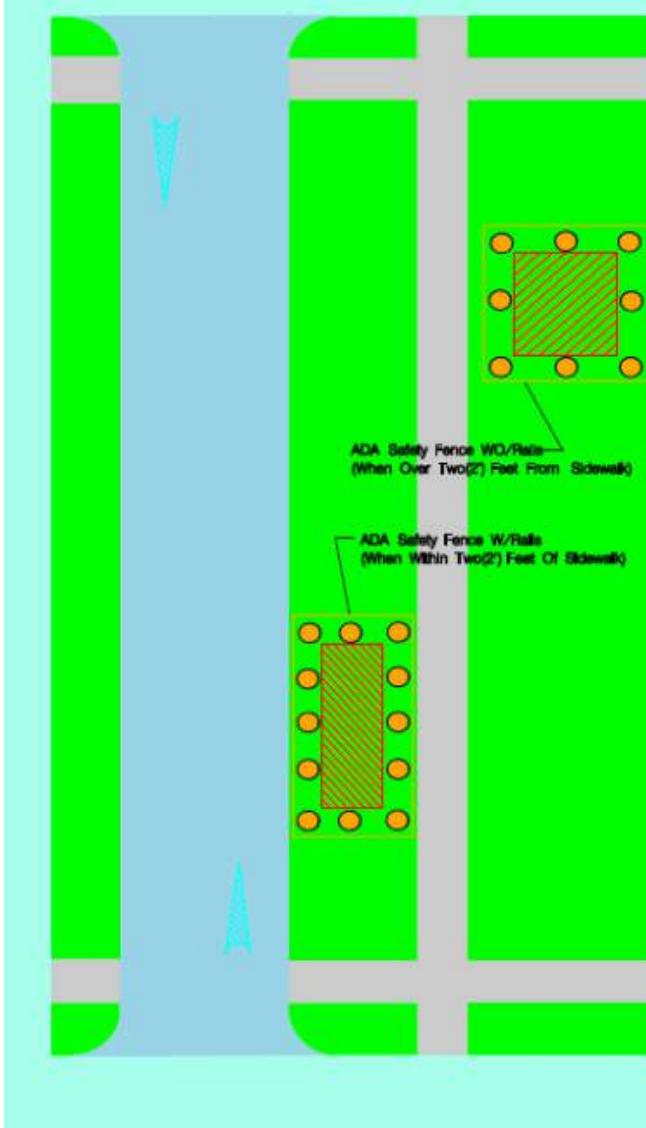
PEDESTRIAN DETOUR IN CENTRAL BUSINESS DISTRICT (CBD)

Maintain a minimum of 5' unobstructed pedestrian walkway around the work zone using constructed walkway or protected area as designated by the Department of Public Works Traffic Operations Section.

**14**

WORK IN THE PEDESTRIAN AREAS

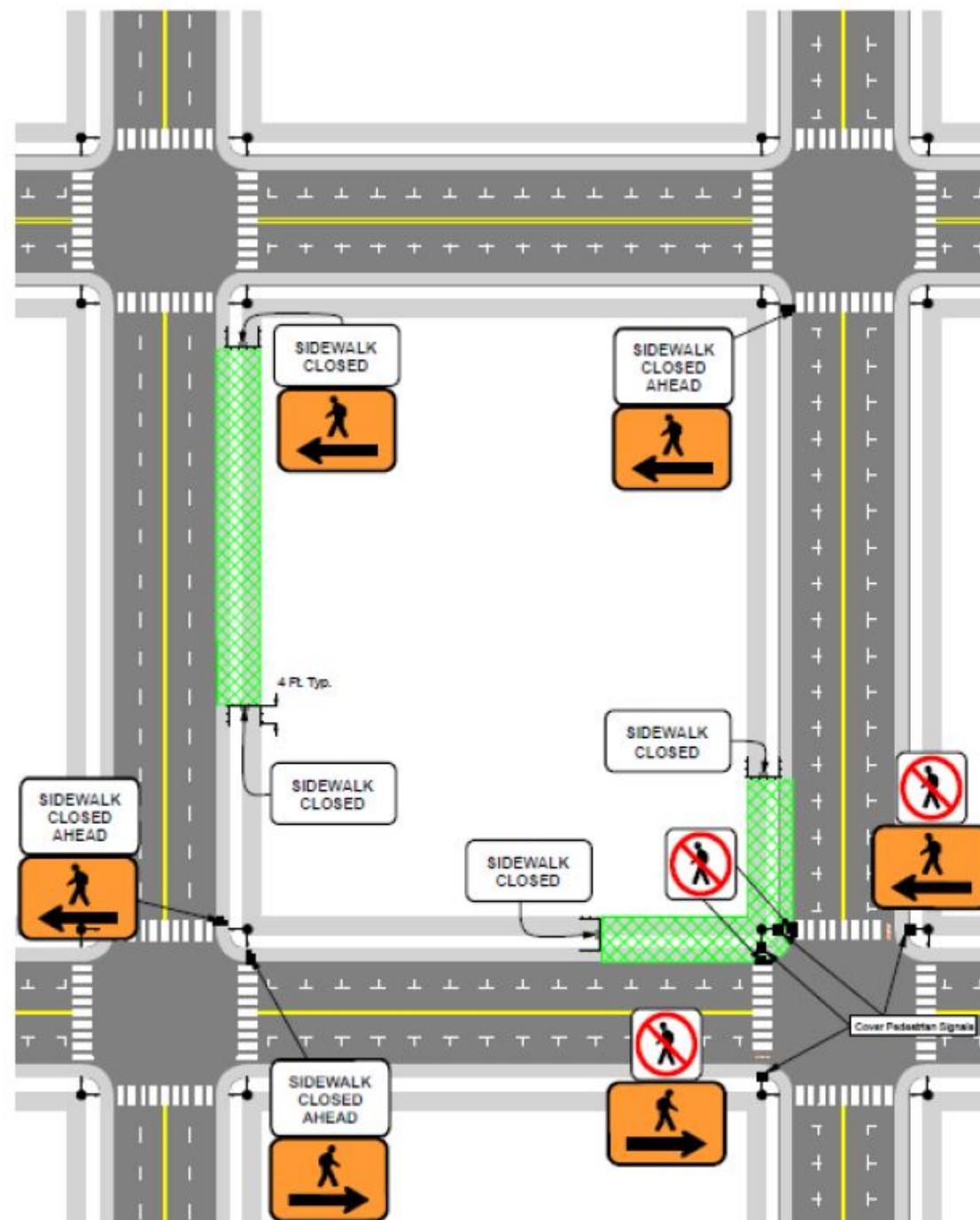
Protection of Excavations & Hazards not in roadways or sidewalks



Sidewalk Closure

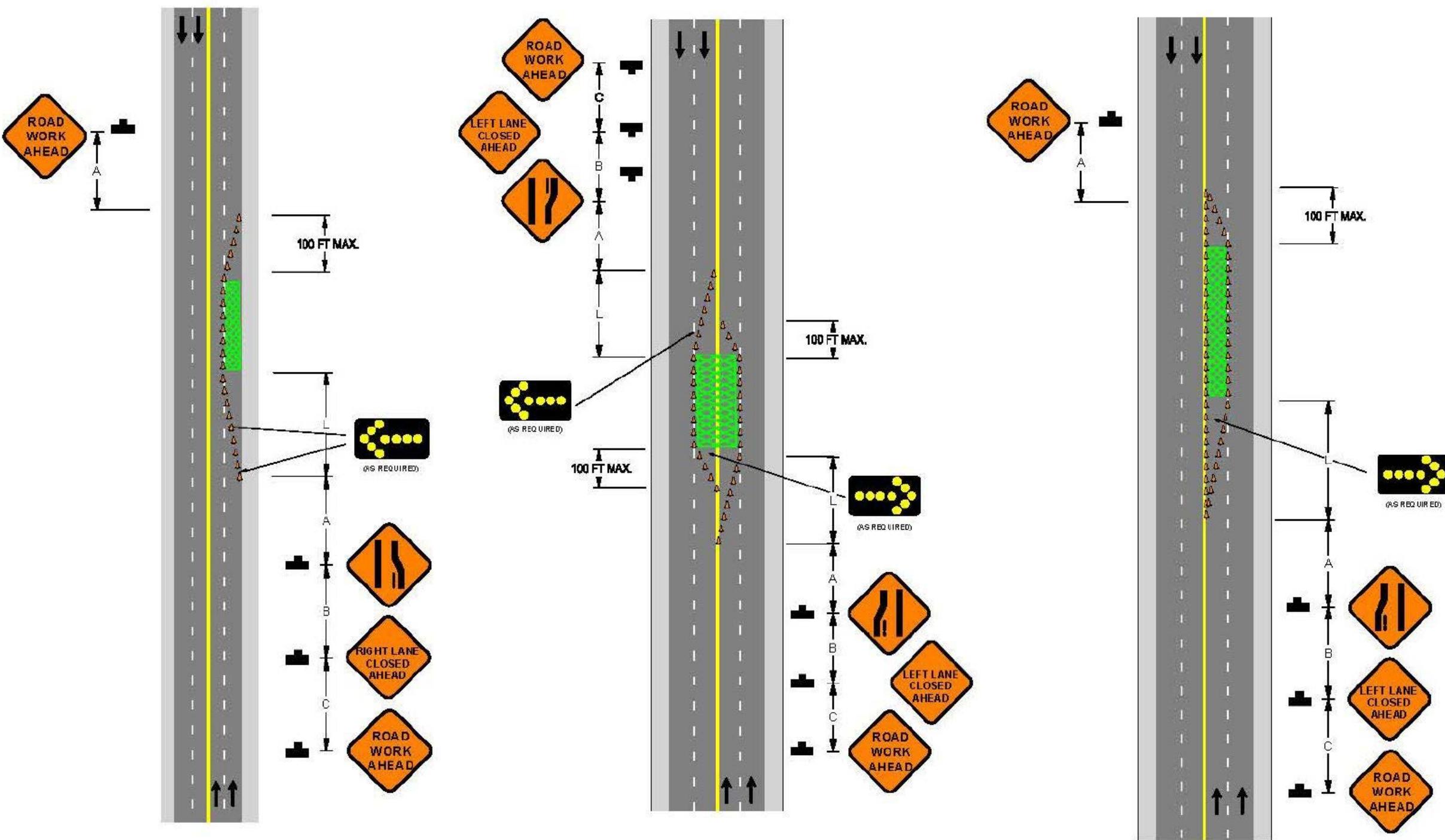
See Page A9 for A, B, C, L Distances

- 1) This plan shows the pedestrian traffic control measures only. Additional traffic control measures may be required to manage vehicular traffic.



Through Lane Closures on Higher Volume Streets (Collectors, Arterials Etc..)

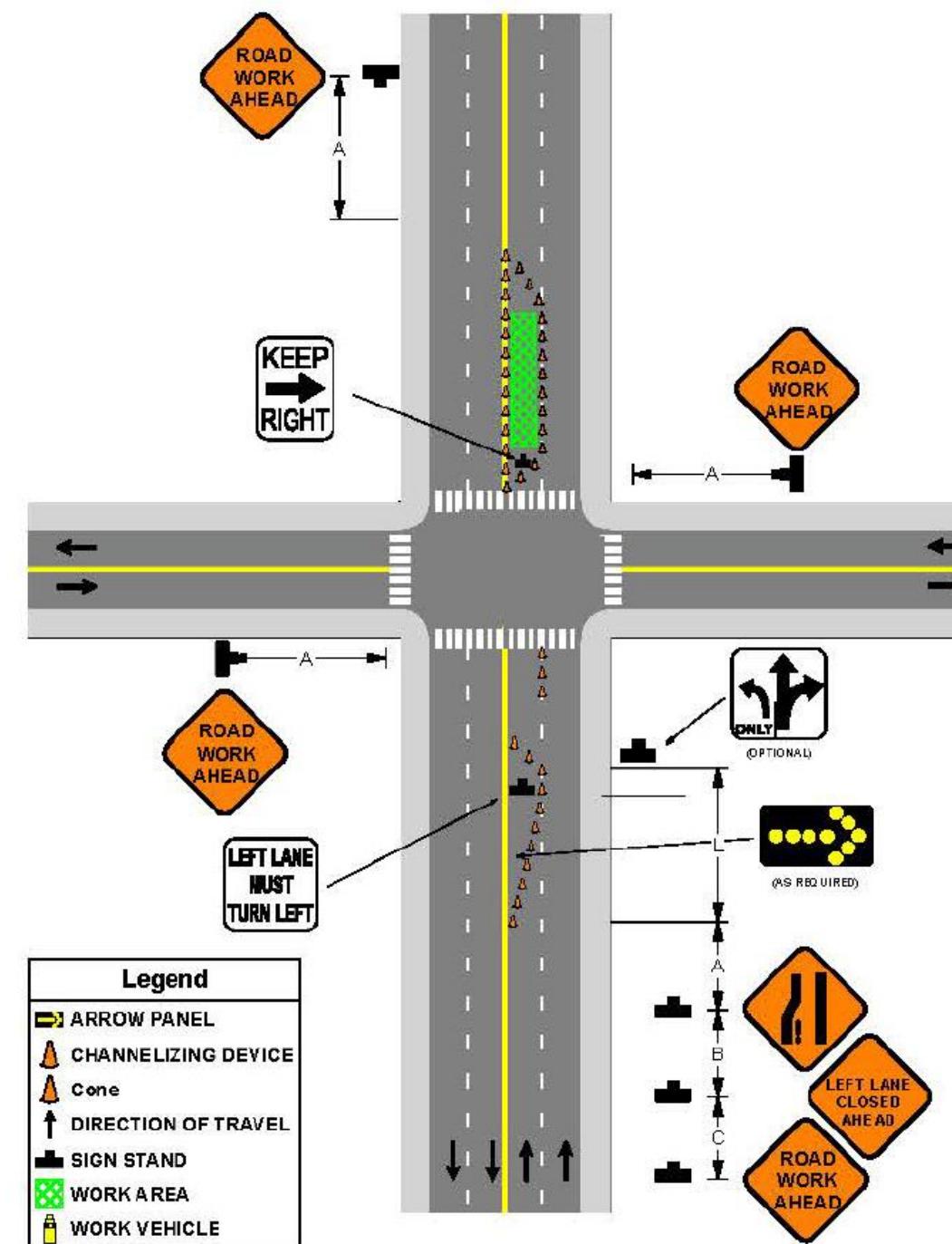
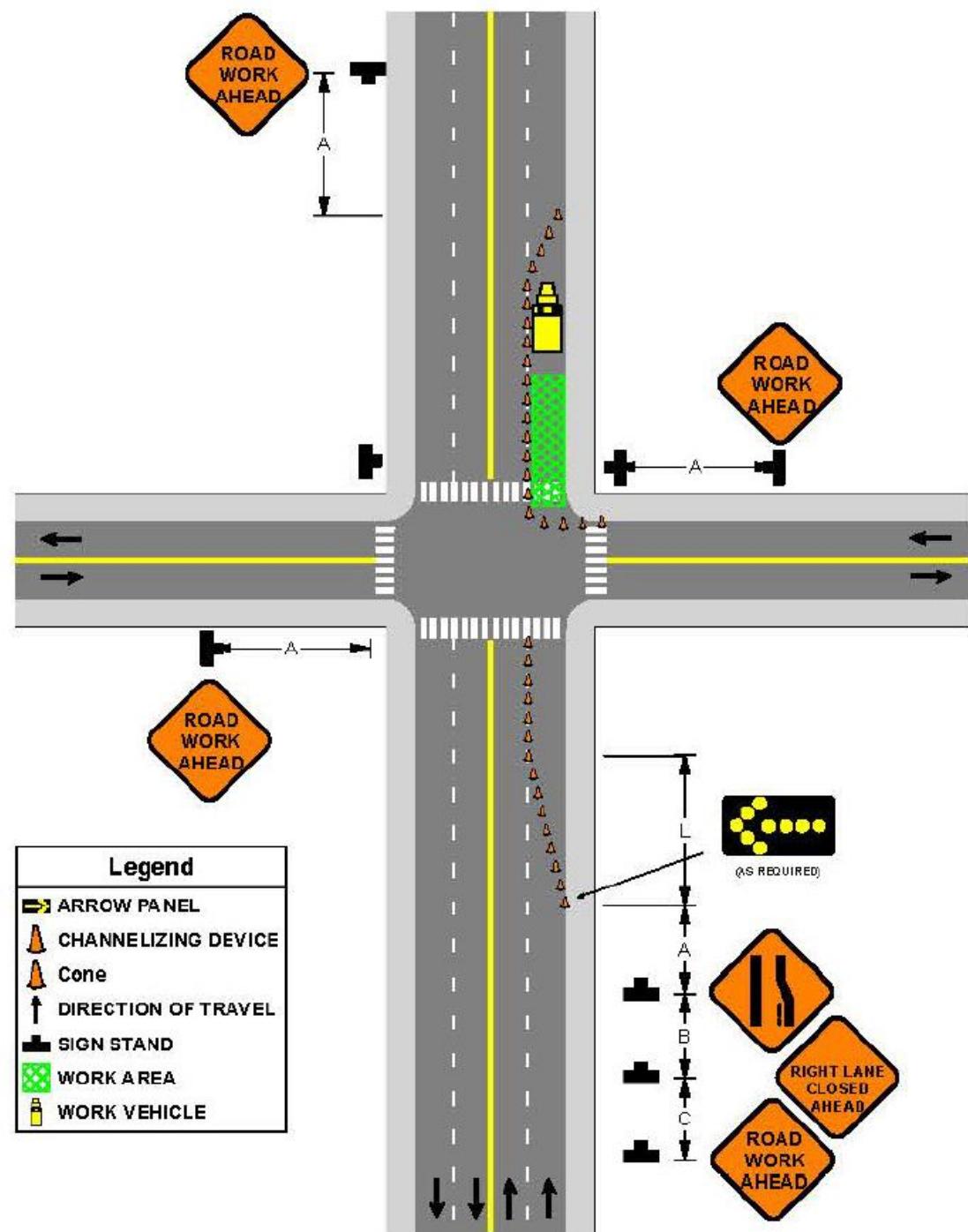
See Page A9 for A, B, C, L Distances



Nebraska 811
Know what's below.
811 before you dig.

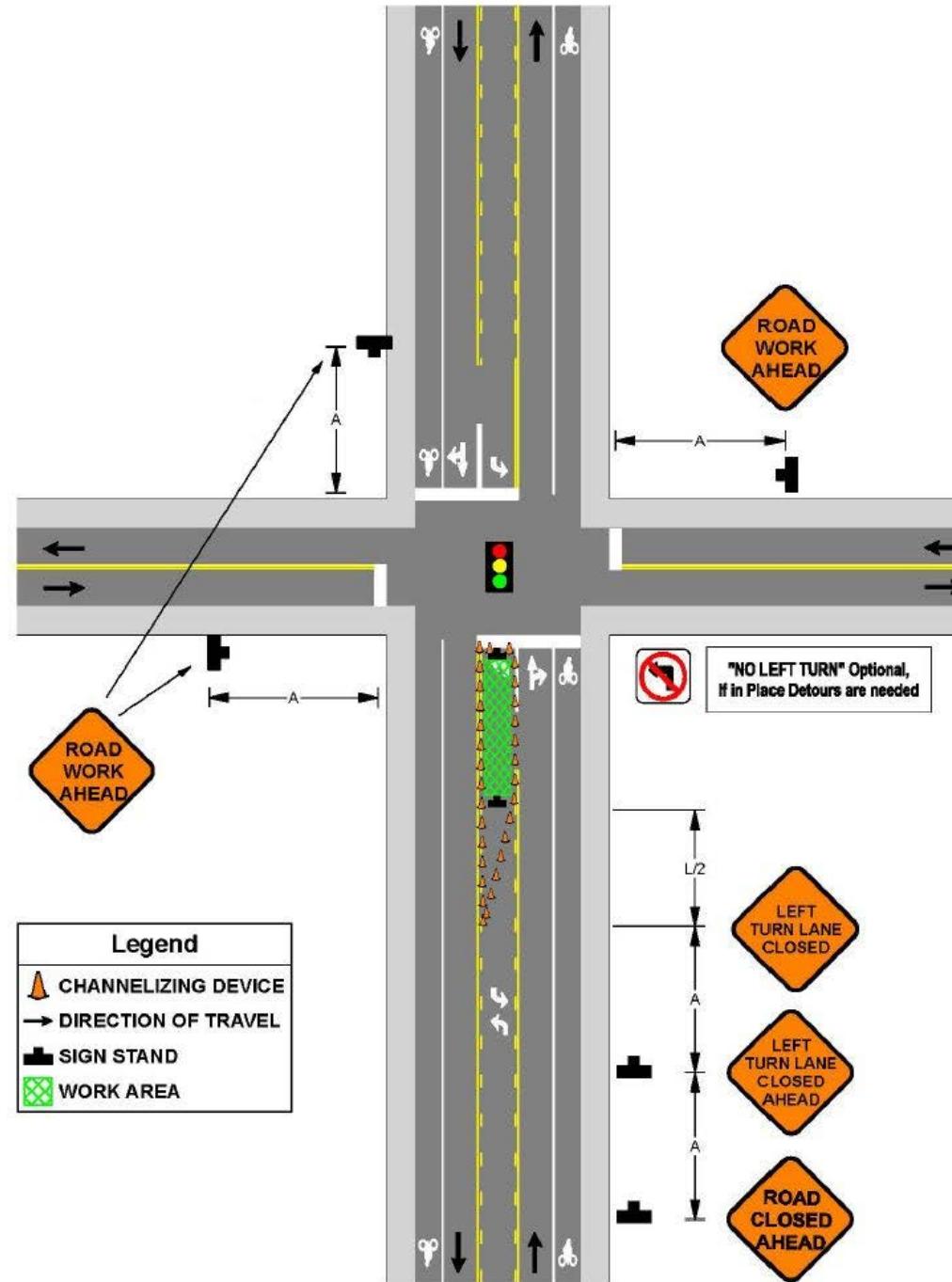
Through Lane Closures on Higher Volume Streets within Intersections (Collectors, Arterials Etc..)

See Page A9 for A, B, C, L Distances

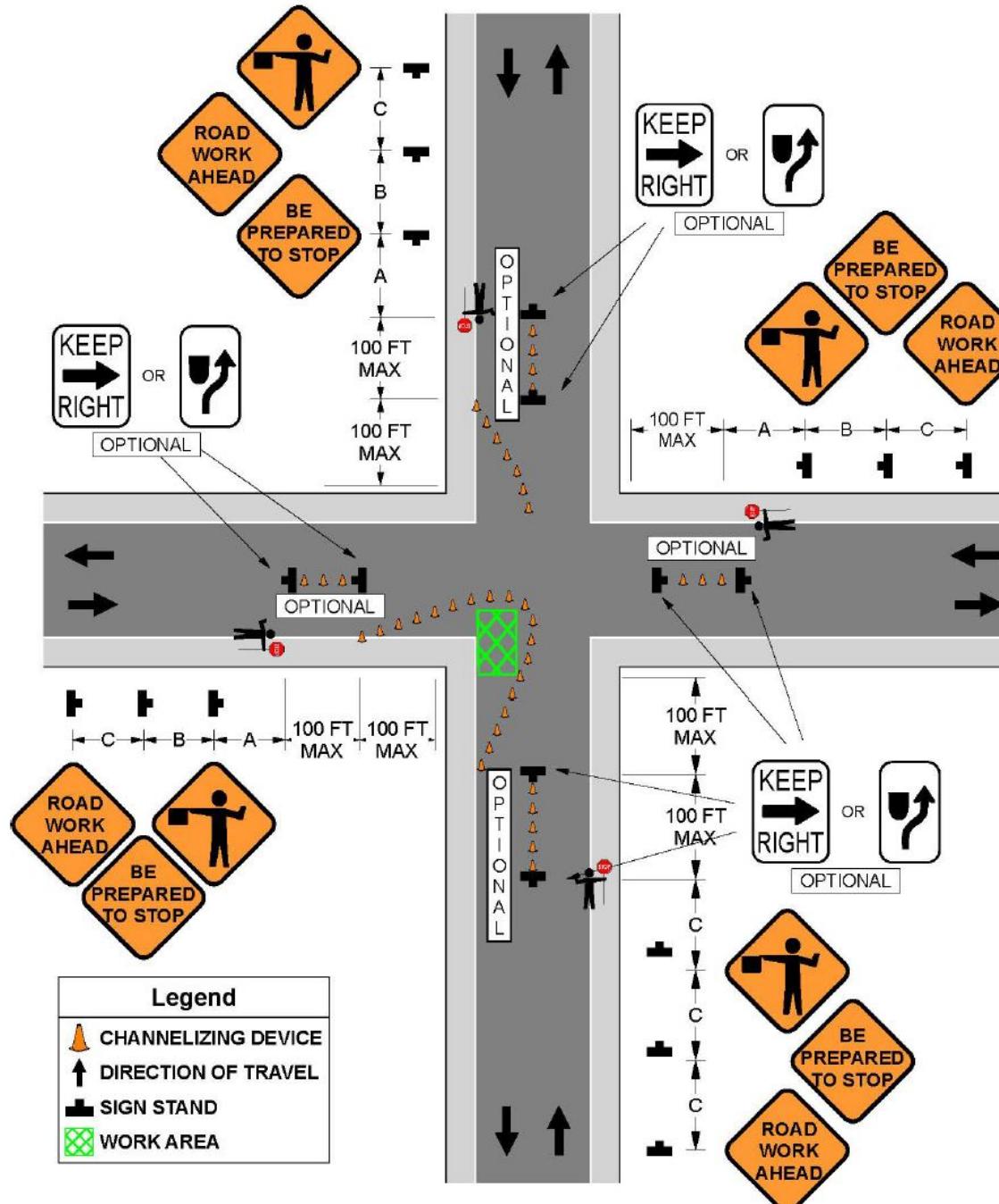


Nebraska 811
Know what's below.
811 before you dig.

Left/Right Turn Lane Closures on Higher Volume Streets
(I.E. Collectors, Arterials, etc.) Within Signalized Intersections
(Contact Traffic Signal Staff)



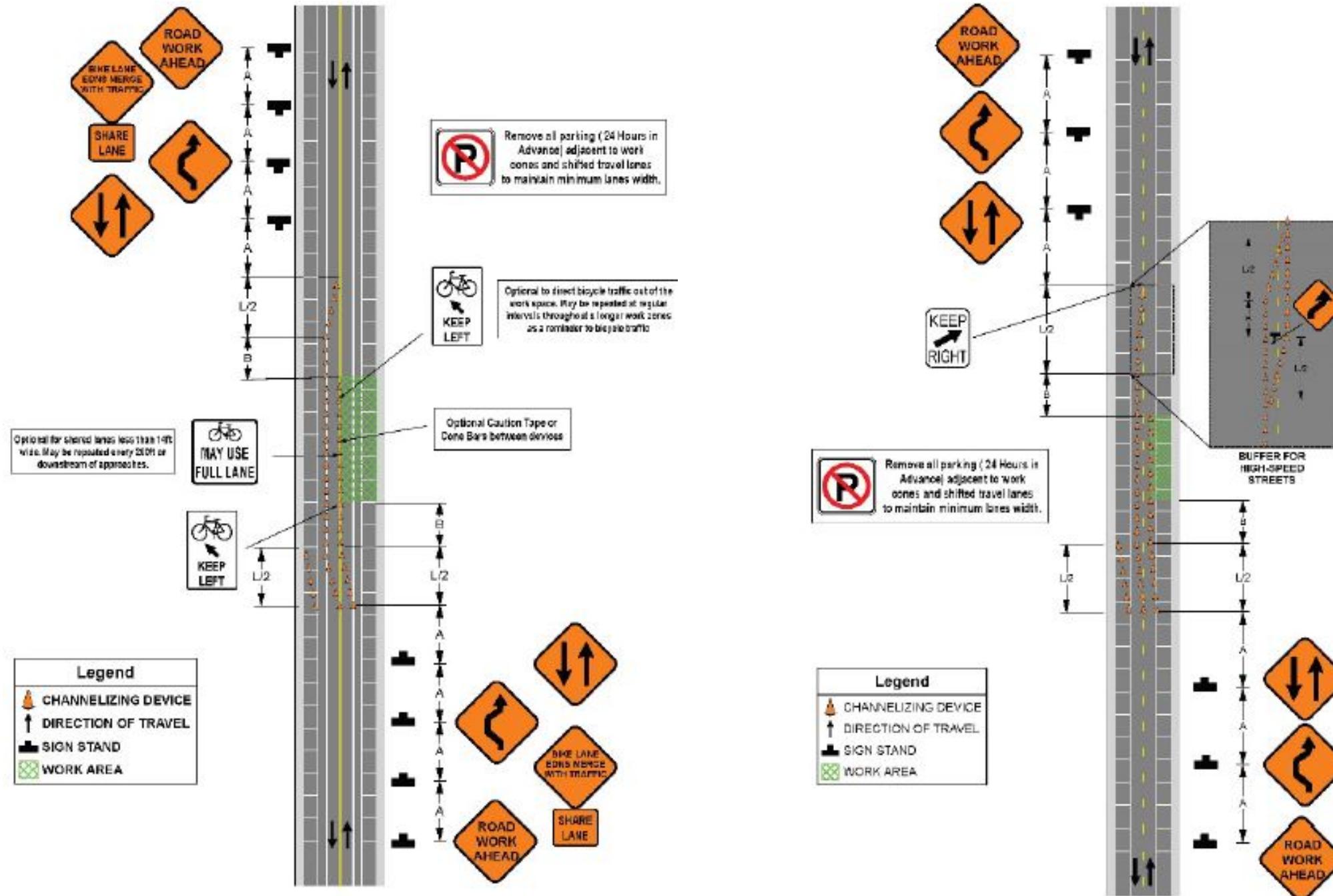
Closures on Lower Volume Streets for Workzones within Intersections



See Page A9 for A, B, C, L Distances

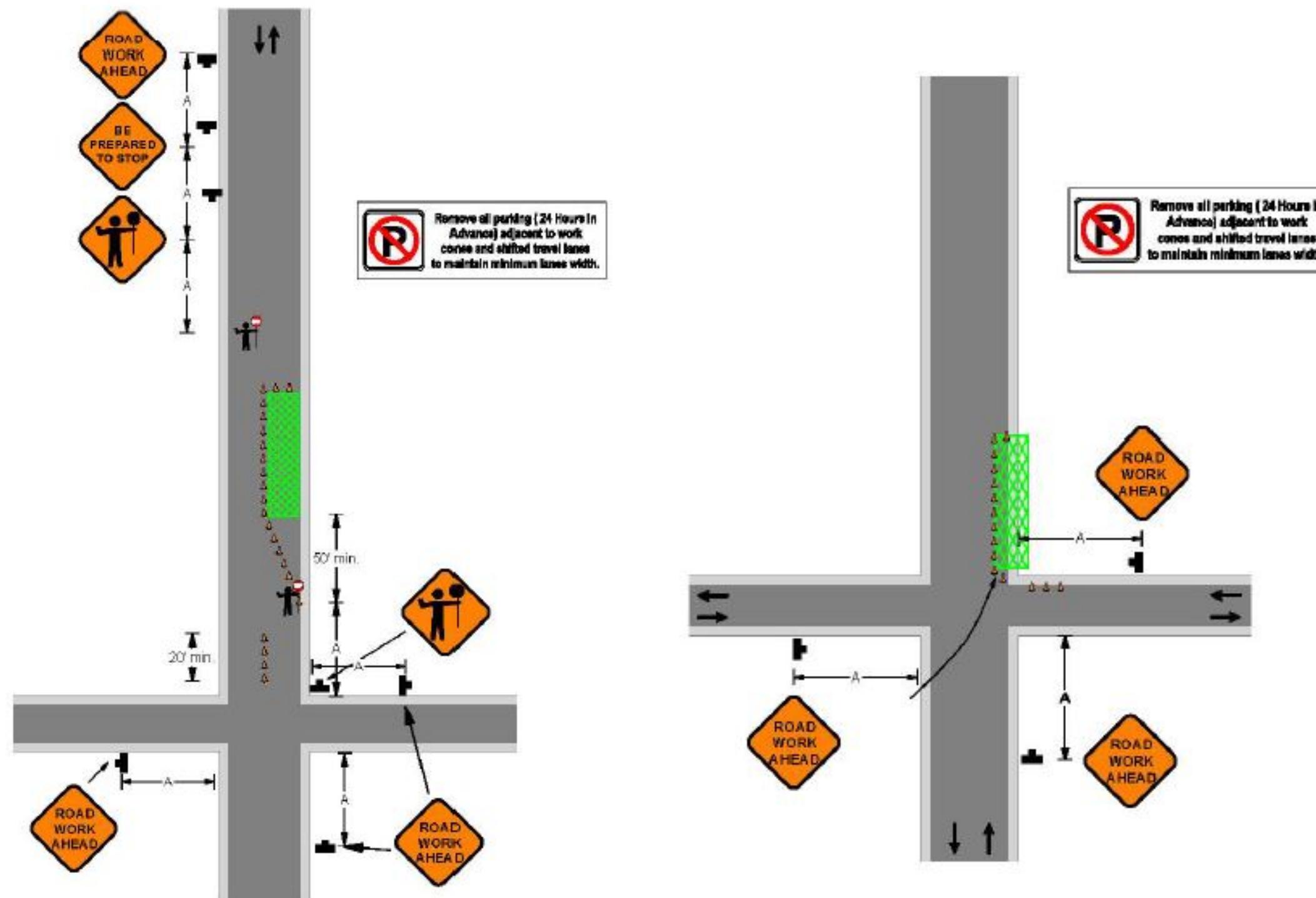
Lane Closures on Lower Volume Streets for Workzones along Corridors with Bike Lanes and On-Street Parking

See Page A9 for A, B, C, L Distances



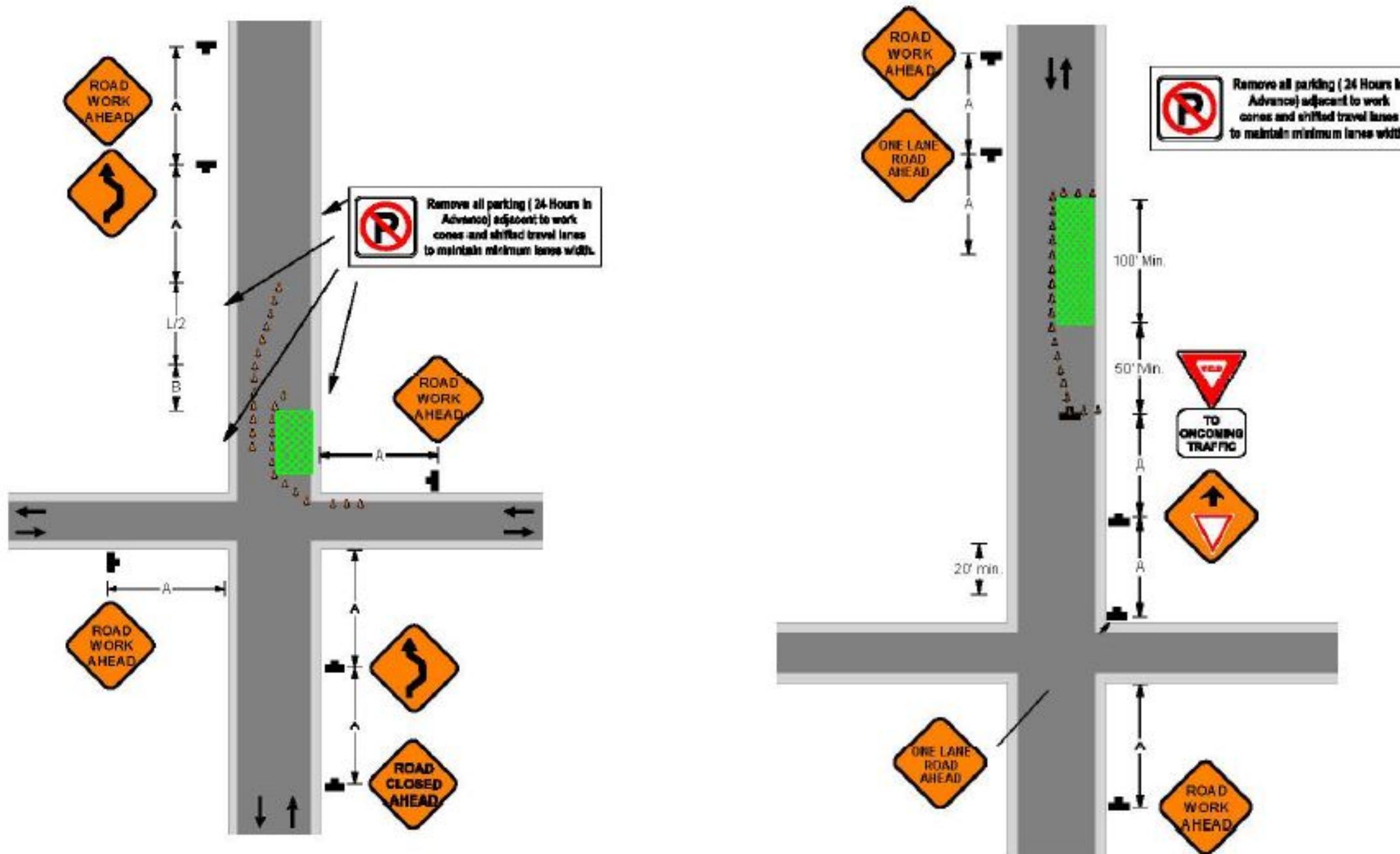
Partial street Closures on Lower Volume Streets

See Page A9 for A, B, C, L Distances



Partial street Closures on Lower Volume Streets

See Page A9 for A, B, C, L Distances



Road Type	Distance Between Signs**		
	A	B	C
Urban (low speed)*	100 feet	100 feet	100 feet
Urban (high speed)*	350 feet	350 feet	350 feet
Rural	500 feet	500 feet	500 feet
Expressway / Freeway	1,000 feet	1,500 feet	2,640 feet

Type of Taper	Taper Length (L)
Merging Taper	At least L
Shifting Taper	At least 0.5 L
Shoulder Taper	At least .33 L
One-Lane, Two Way Traffic Taper	100 Ft. (30m) Maximum
Downstream Taper	100 Ft. (30m) per Lane

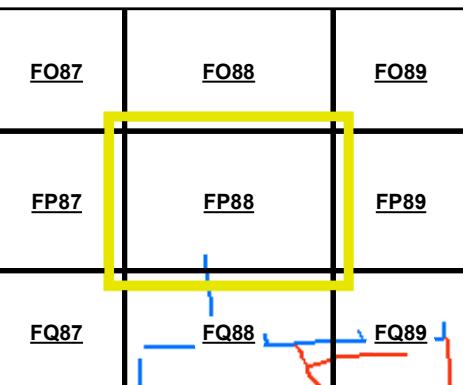
Speed (S)	Taper Length (L) in feet
40 mph or less	$L = \frac{WS^2}{60}$
45 mph or more	$L = WS$

Where: L = taper length in feet
 W = width of offset in feet
 S = posted speed limit, or off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph

Lane Width	Speed in MPH	25 MPH	30 MPH	35 MPH	40 MPH	45 MPH	50 MPH	55 MPH	60 MPH	65 MPH
10 Ft.	Merging Taper	105'	150'	205'	270'	450'	500'	550'	600'	650'
11 Ft.	Merging Taper	115'	165'	225'	294'	495'	550'	605'	660'	715'
12 Ft.	Merging Taper	125'	180'	245'	320'	540'	600'	660'	720'	780'

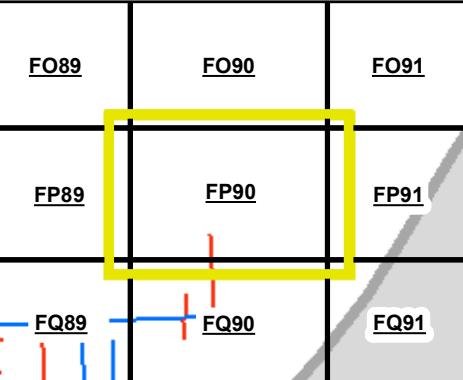
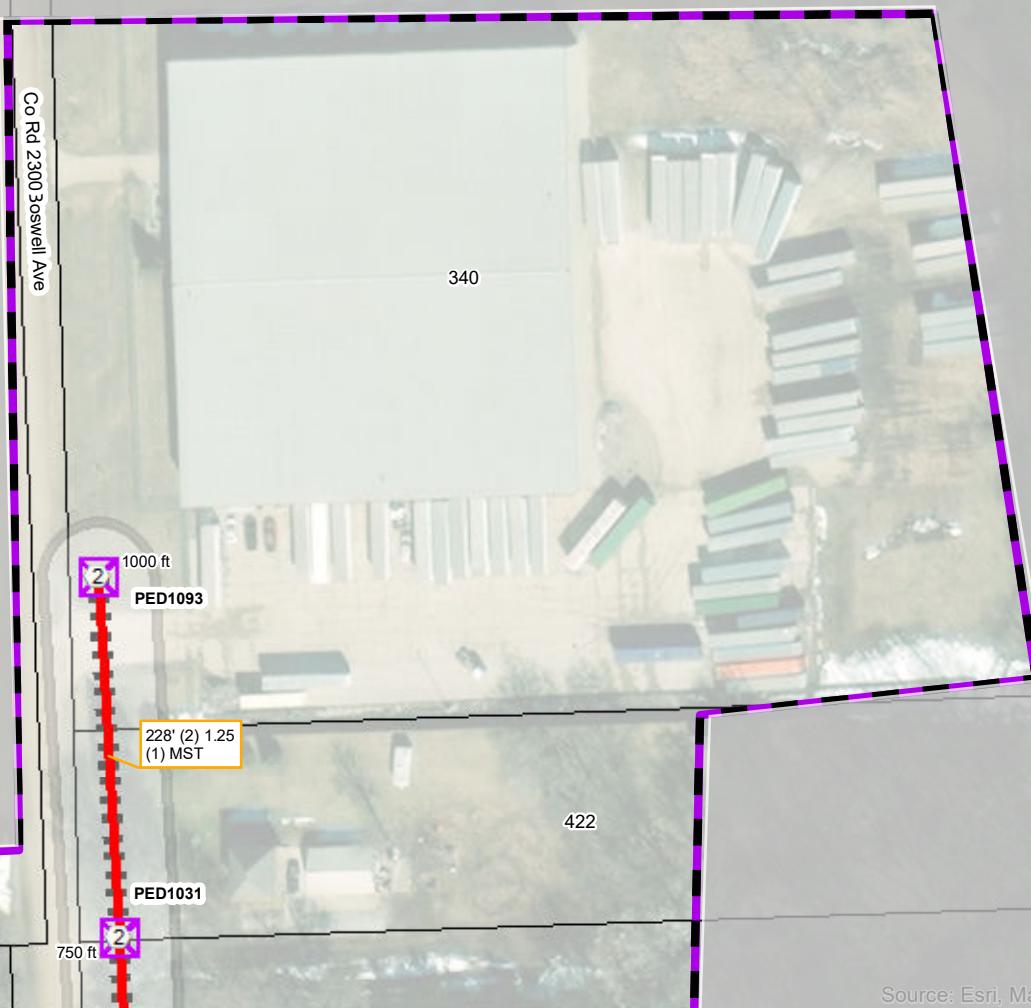
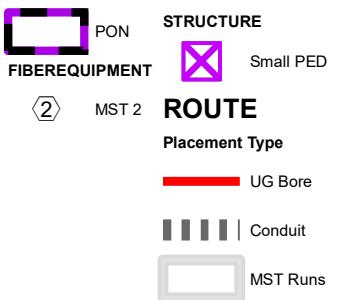


PON:	CRE-01-01
DCR:	DCR-187
PERMIT:	
LEGEND	Date: 6/20/2023
FIBEREQUIPMENT	STRUCTURE
 PON	 Small PED
ROUTE	
	Placement Type
	 UG Bore
	 Aerial Strand
POLE MR	
Pole Use	
 Power	 Conduit
POLE NO MR	
Pole Use	
 Power	 MST Runs



PON: CRE-01-01
DCR: DCR-187

PERMIT:
LEGEND Date: 6/20/2023



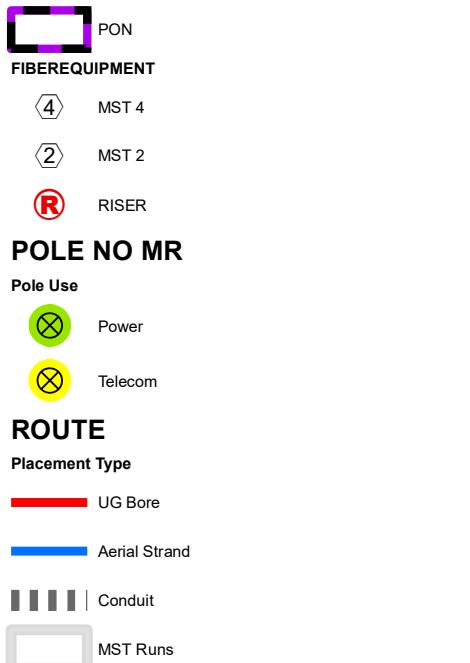
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Revisions:

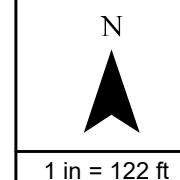


PON: CRE-01-01
DCR: DCR-187

PERMIT:
LEGEND Date: 6/20/2023



Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community



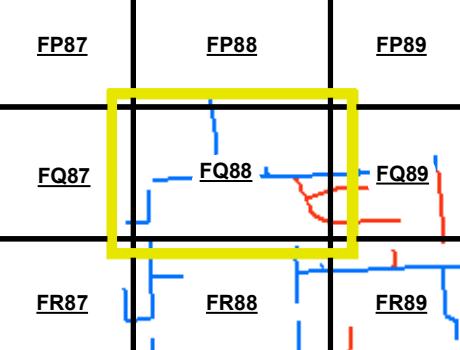
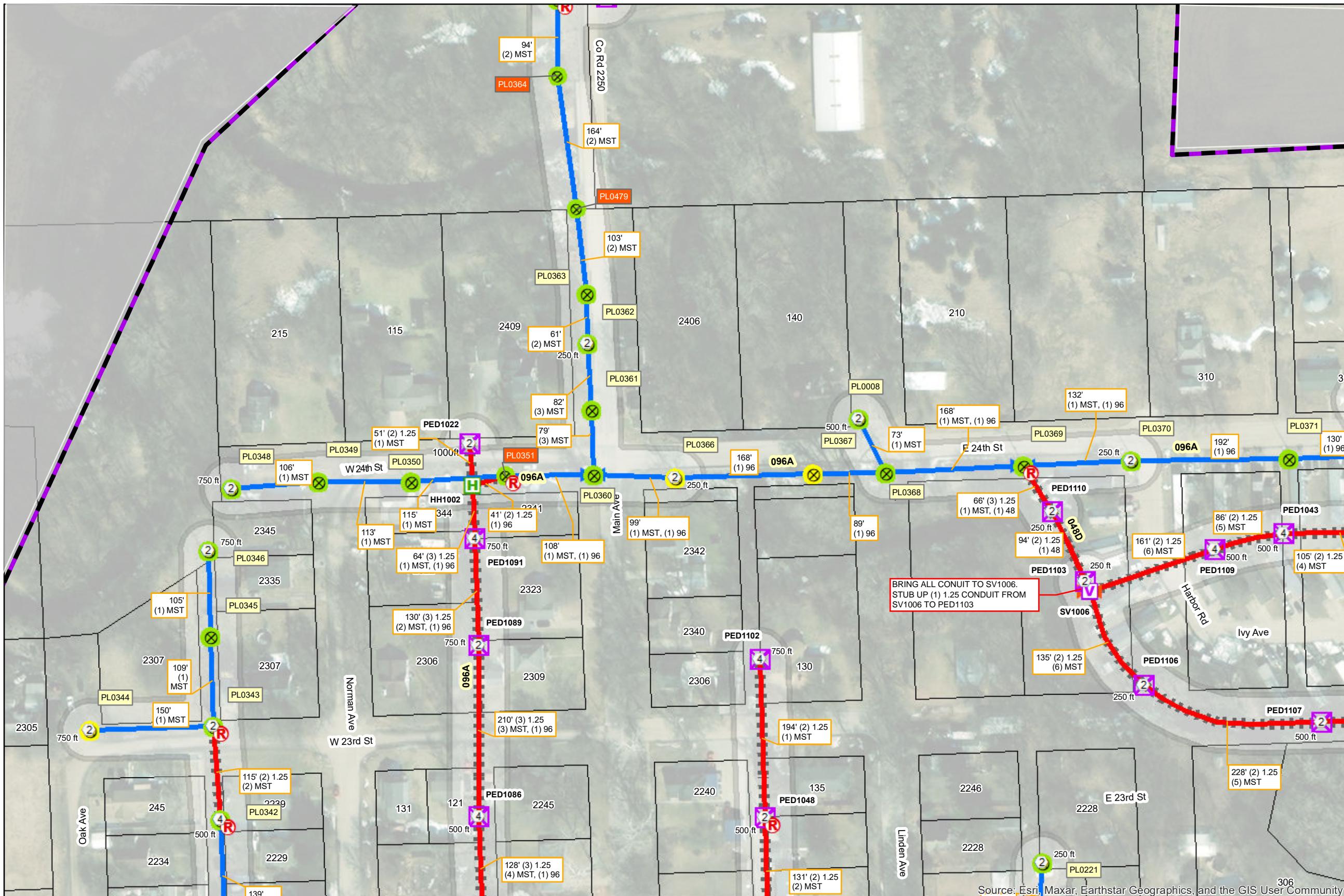
Notes:

Revisions:

PON: CRE-01-01
DCR: DCR-187

PERMIT:
LEGEND Date: 6/20/2023

	STRUCTURE
	FIBER EQUIPMENT
	(4) MST 4
	(2) MST 2
	RISER
	SPlice Closure
	Underground
	Aerial
	ROUTE
	POLE MR
	POLE NO MR
	Placement Type
	UG Bore
	Aerial Strand
	Future MDU Drop
	Conduit
	MST Runs



Notes:

Revisions:

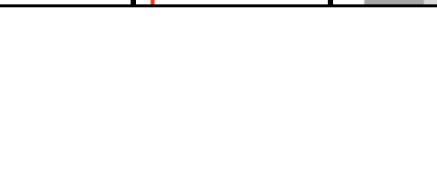
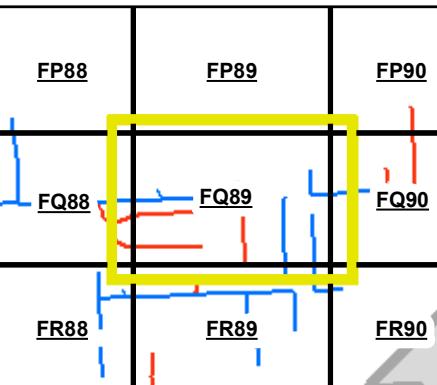
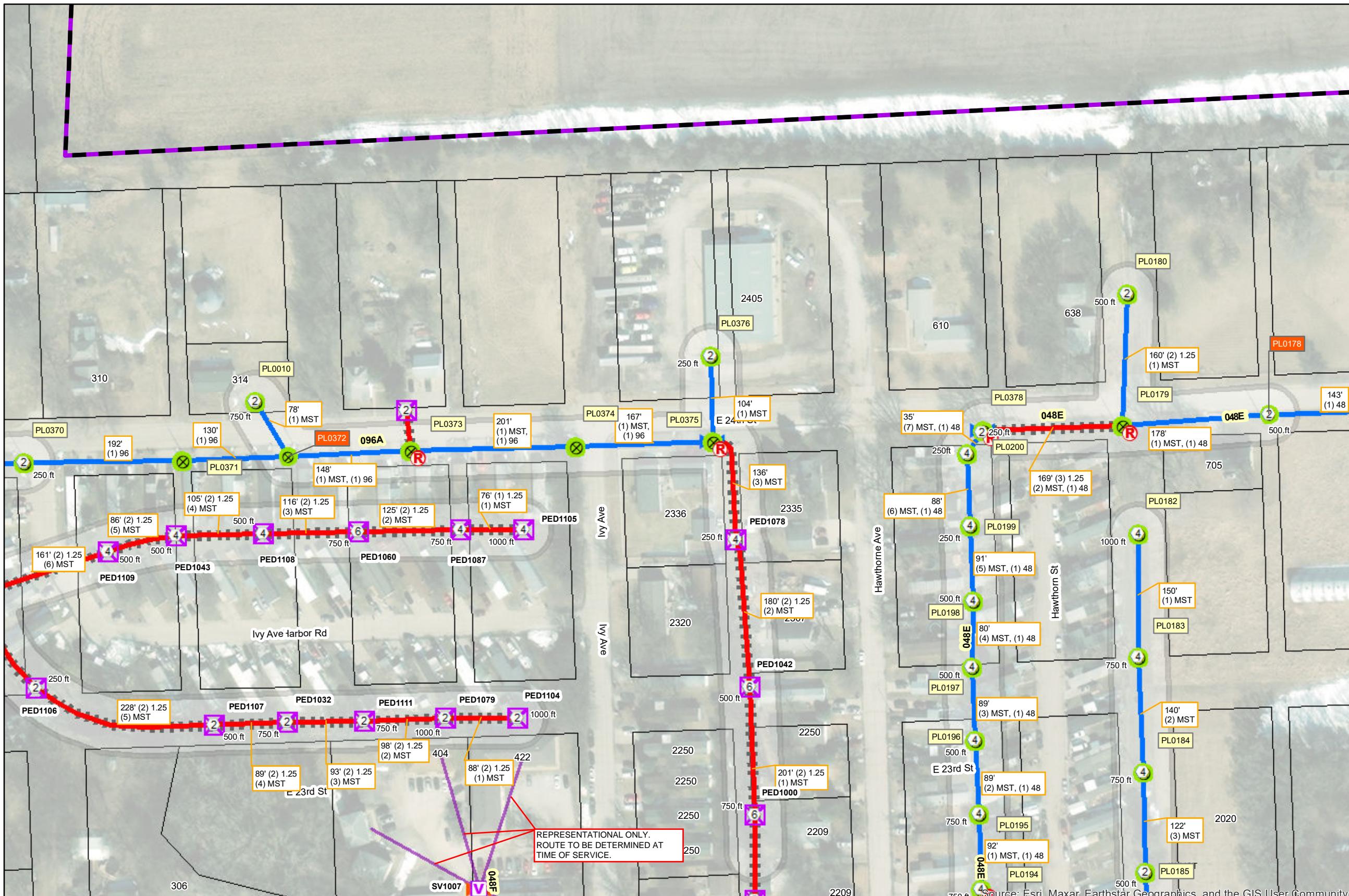
N

1 in = 122 ft

PON: CRE-01-01
DCR: DCR-187

PERMIT:
LEGEND Date: 6/21/2023

FIBEREQUIPMENT	STRUCTURE
6 MST 6	Small PED
4 MST 4	T48 Vault
2 MST 2	
R Riser	
ROUTE	
Pole Use	
UG Bore	
Aerial Strand	
POLE NO MR	
Pole Use	
Future MDU Drop	
Future MDU Drop	
Conduit	
MST Runs	



PON: CRE-01-01
DCR: DCR-187

PERMIT:
LEGEND Date: 6/21/2023

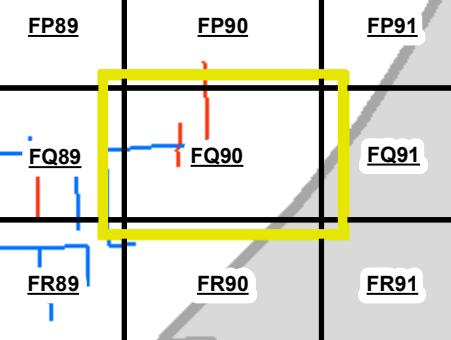
	STRUCTURE
	FIBER EQUIPMENT
	Large PED
	Small PED
	T36 Vault
	SPlice Closure
	Aerial
	ROUTE
	Placement Type
	UG Bore
	Aerial Strand
	Future MDU Drop
	Future MDU Drop
	Conduit
	MST Runs

POLE MR

	Pole Use
	Power
	ROUTE
	Placement Type
	UG Bore
	Aerial Strand
	Future MDU Drop
	Future MDU Drop
	Conduit
	MST Runs

POLE NO MR

	Pole Use
	Power
	ROUTE
	Placement Type
	UG Bore
	Aerial Strand
	Future MDU Drop
	Future MDU Drop
	Conduit
	MST Runs



Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community



Notes:

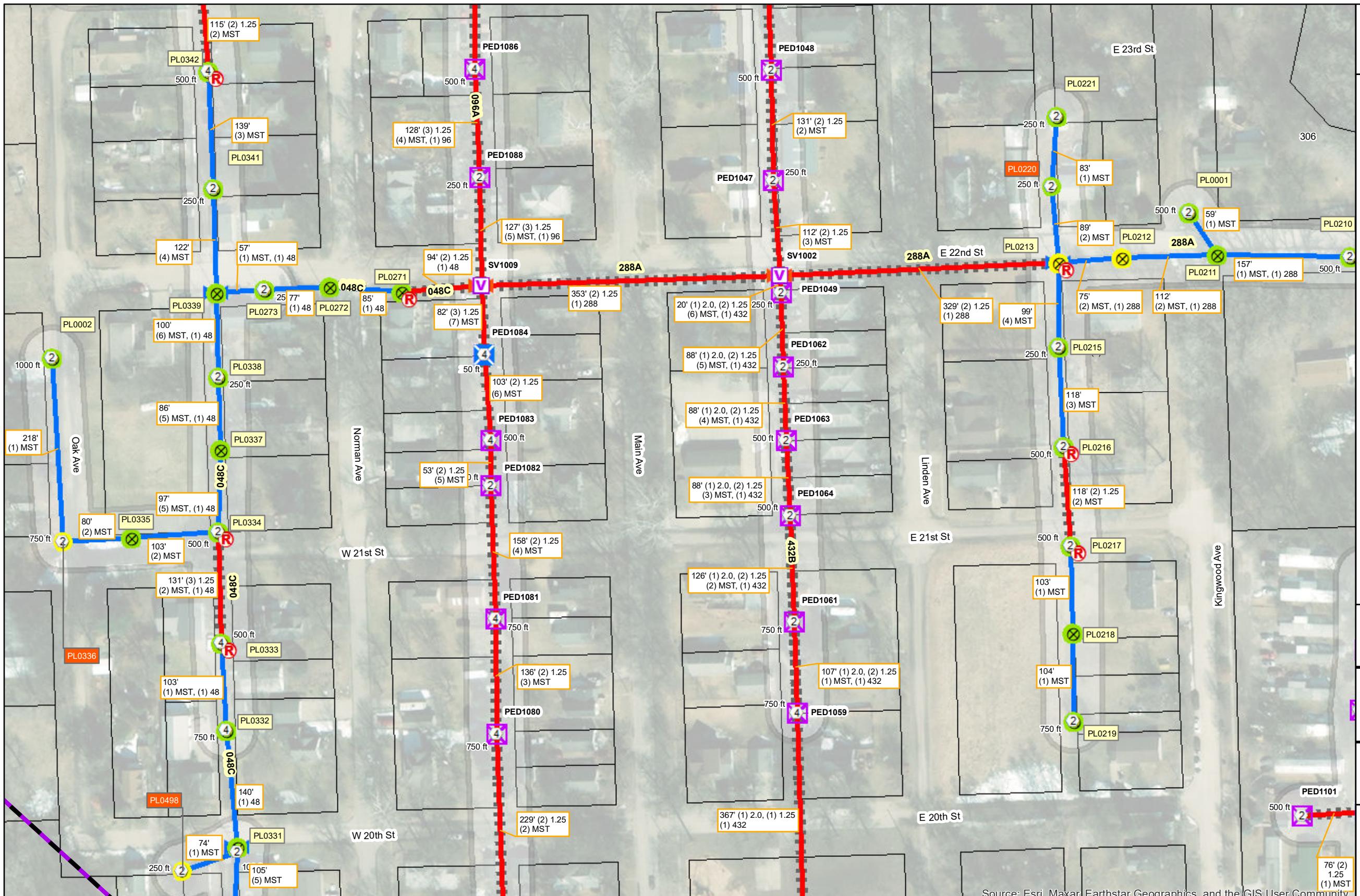
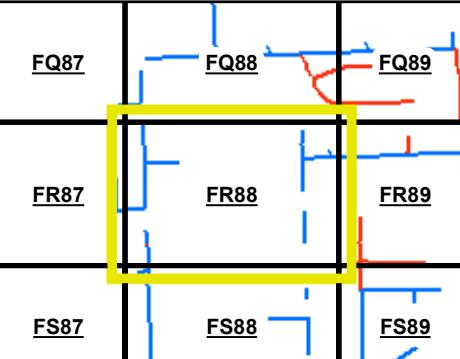
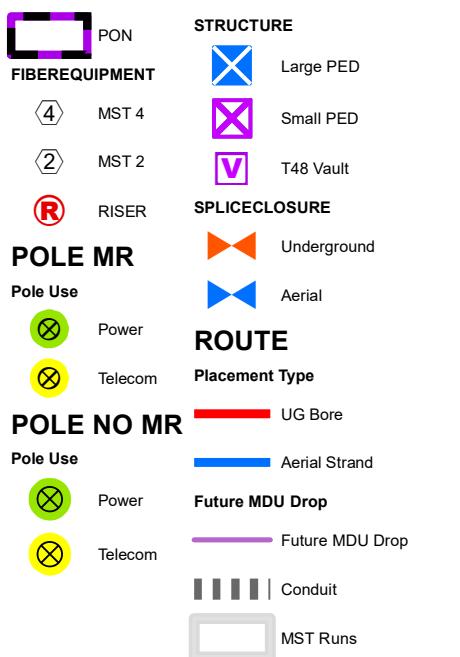
Revisions:

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1 in = 122 ft

PON: CRE-01-01
DCR: DCR-187

PERMIT:
LEGEND Date: 6/22/2023



Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

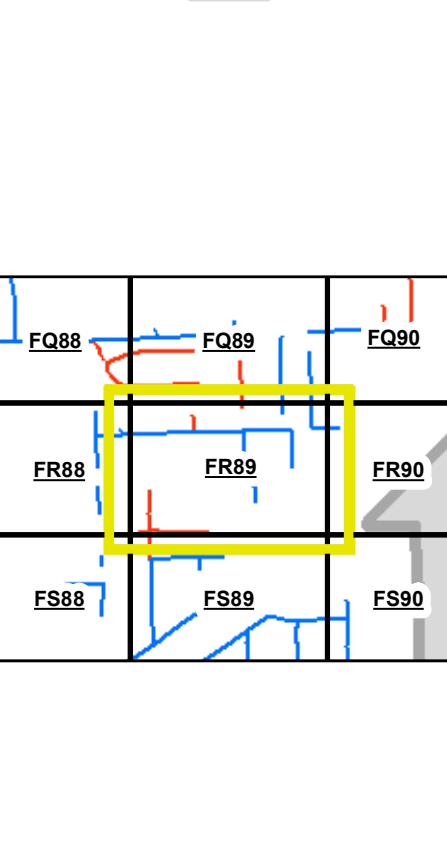
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1 in = 118 ft

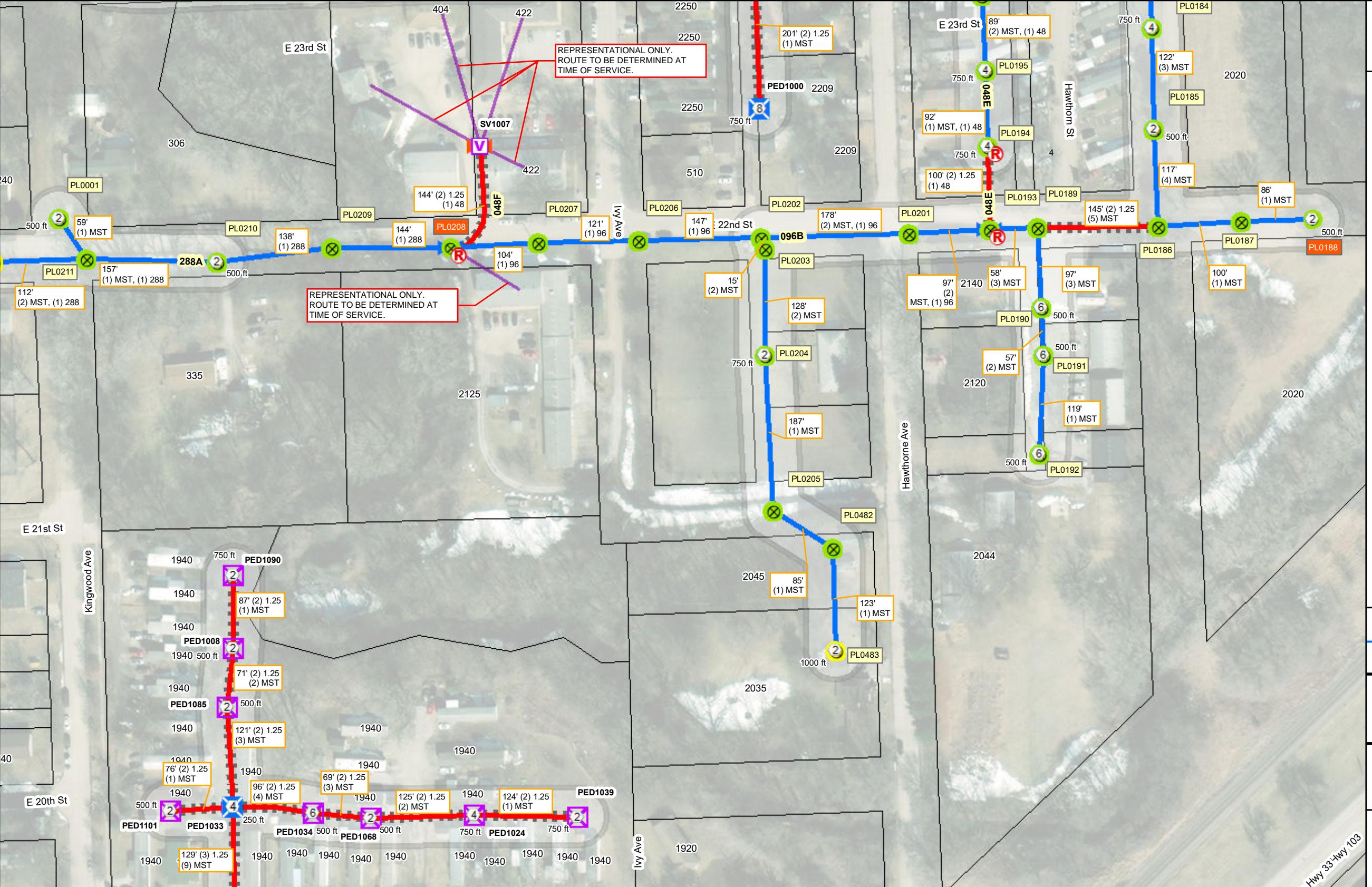
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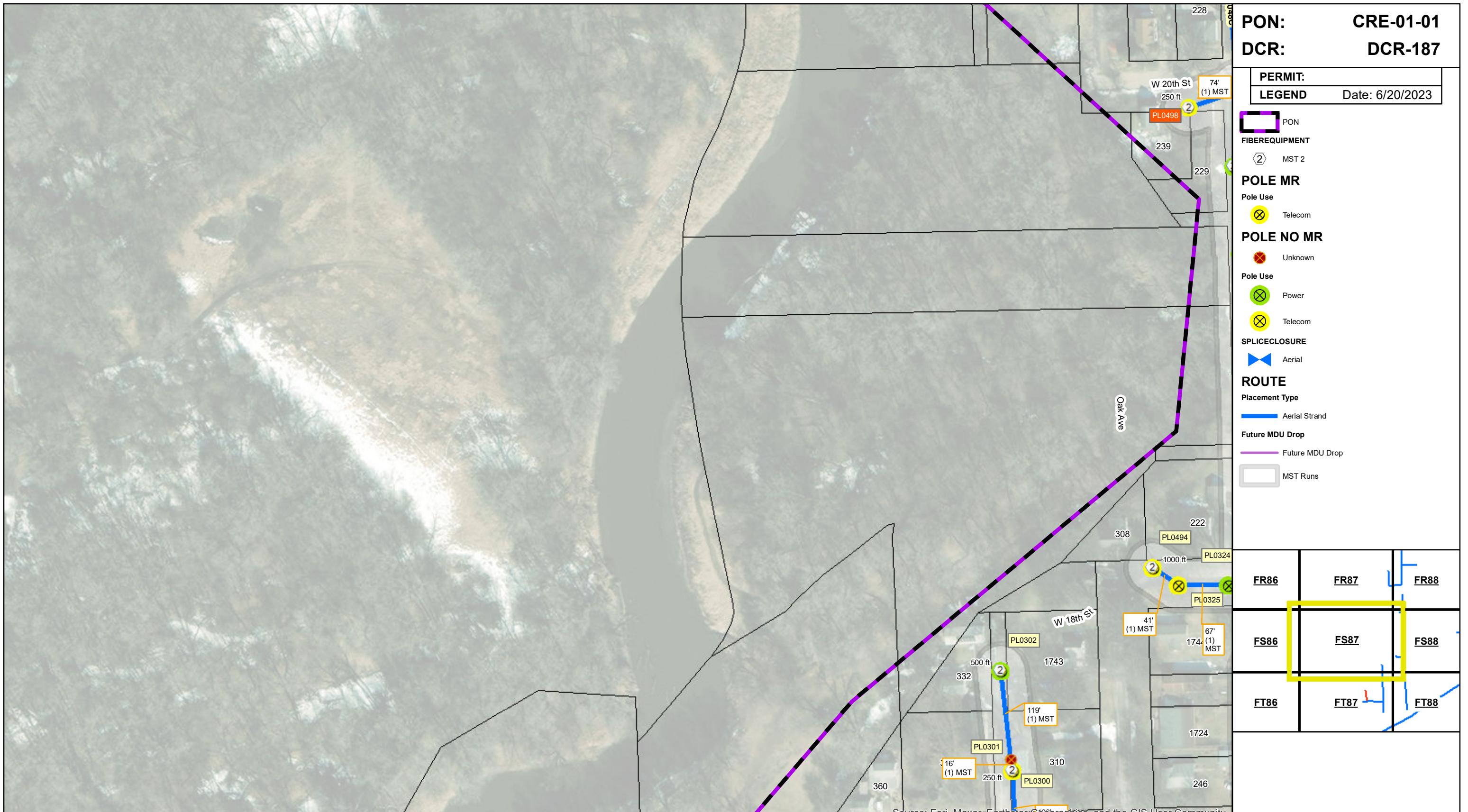
PERMIT:
LEGEND Date: 6/20/2023

	STRUCTURE
	FIBER EQUIPMENT
	Large PED
	Small PED
	T48 Vault
	MST 8
	MST 6
	MST 4
	MST 2
	Underground
	Aerial
	SPLICE CLOSURE
	Riser
	ROUTE
	Pole Use
	UG Bore
	Aerial Strand
	POLE MR
	Placement Type
	Power
	Future MDU Drop
	POLE NO MR
	Power
	Future MDU Drop
	Telecom
	ROUTE
	Placement Type
	UG Bore
	Aerial Strand
	Future MDU Drop
	Power
	Future MDU Drop
	Telecom
	POLE NO MR
	Power
	Future MDU Drop
	Telecom
	ROUTE
	Placement Type
	UG Bore
	Aerial Strand
	Future MDU Drop
	Power
	Future MDU Drop
	Telecom



Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

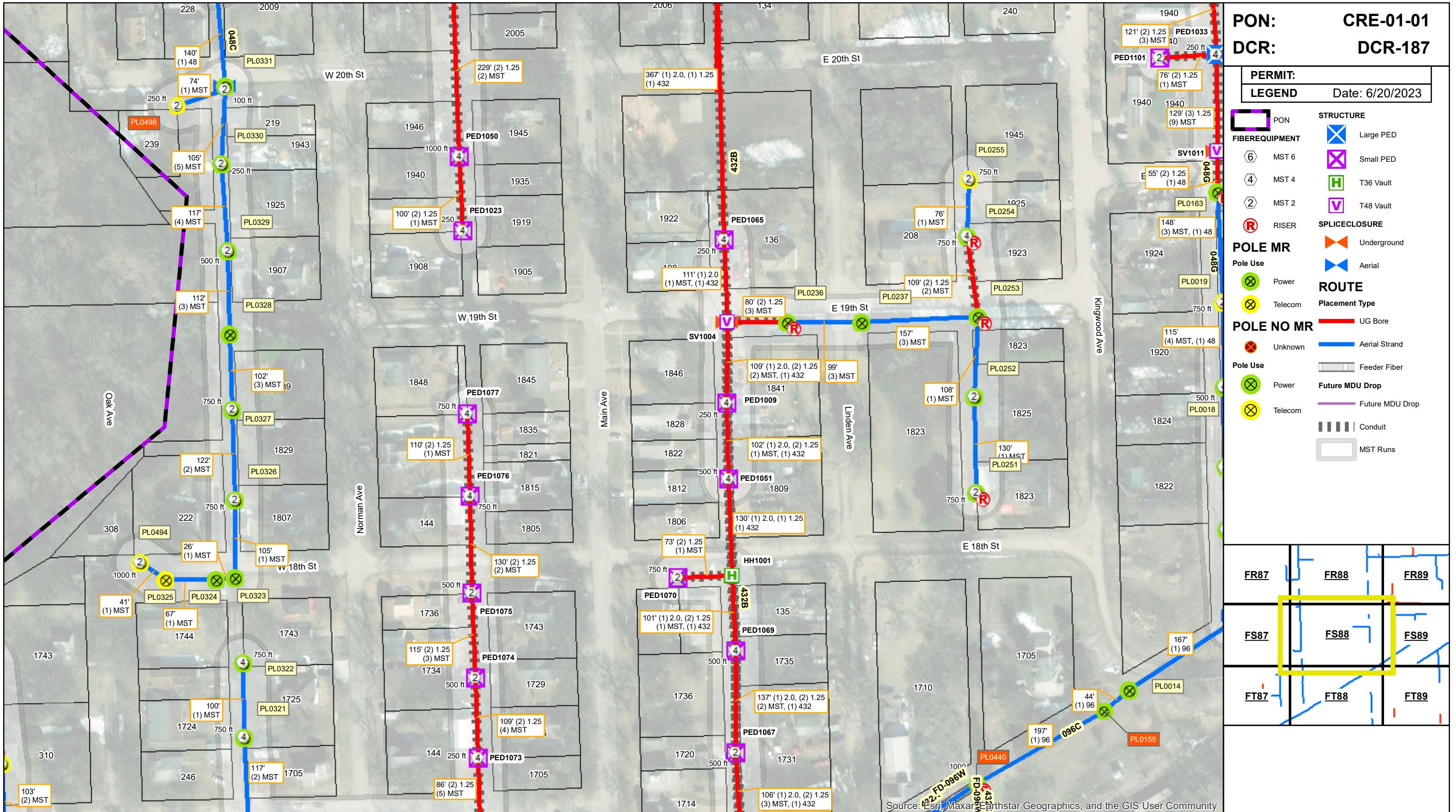




Notes:

Revisions:





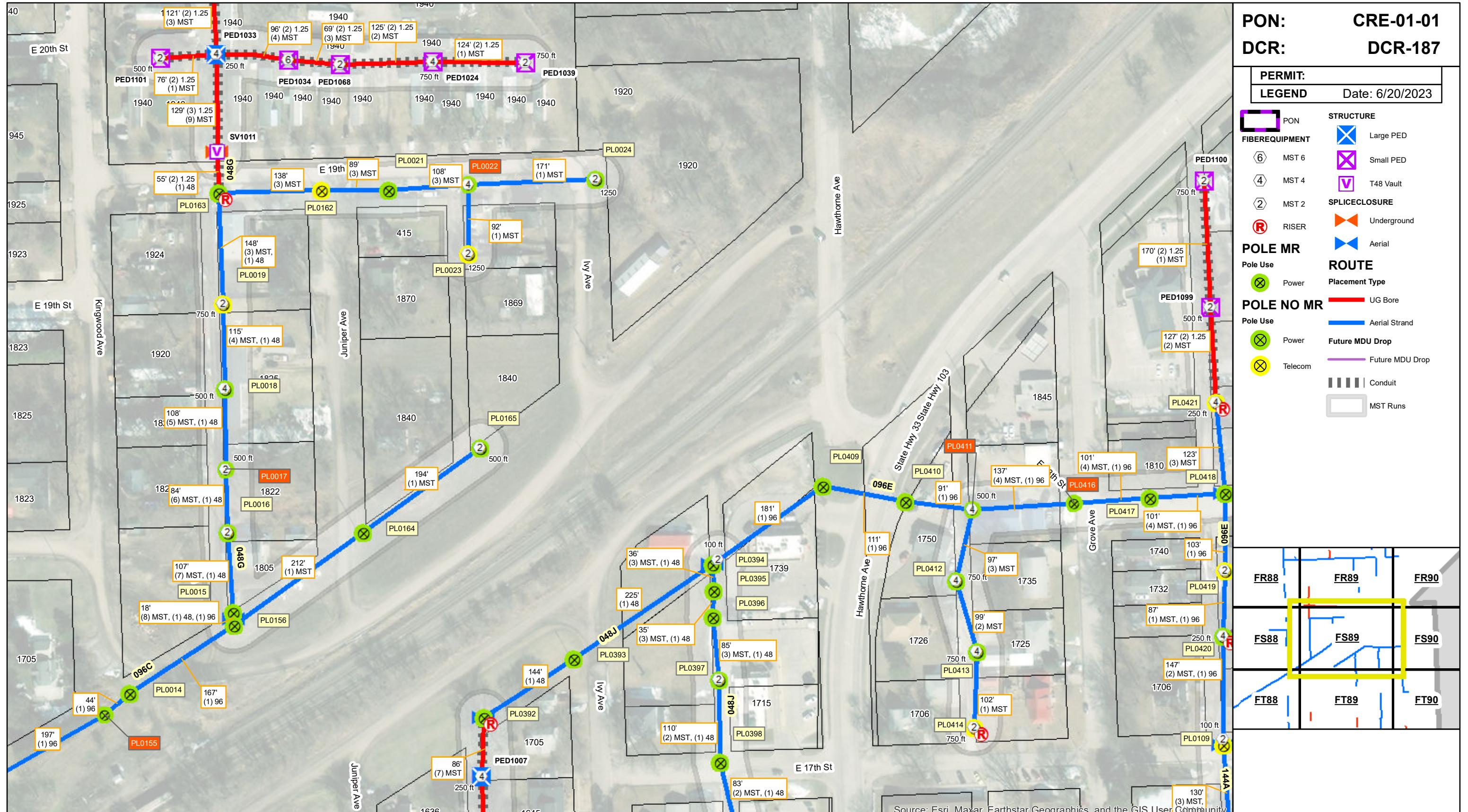
The Nebraska 811 logo features the word "Nebraska" in a large, bold, red sans-serif font. The number "811" is in a larger, yellow sans-serif font to the right of "Nebraska". Below "Nebraska" is the tagline "Know what's below." in a smaller black sans-serif font. To the right of the tagline is a small graphic of a shovel. At the bottom, there is a call-to-action: "Call before you dig." in a black sans-serif font.

Notes:

Revisions

N

- 122 ft



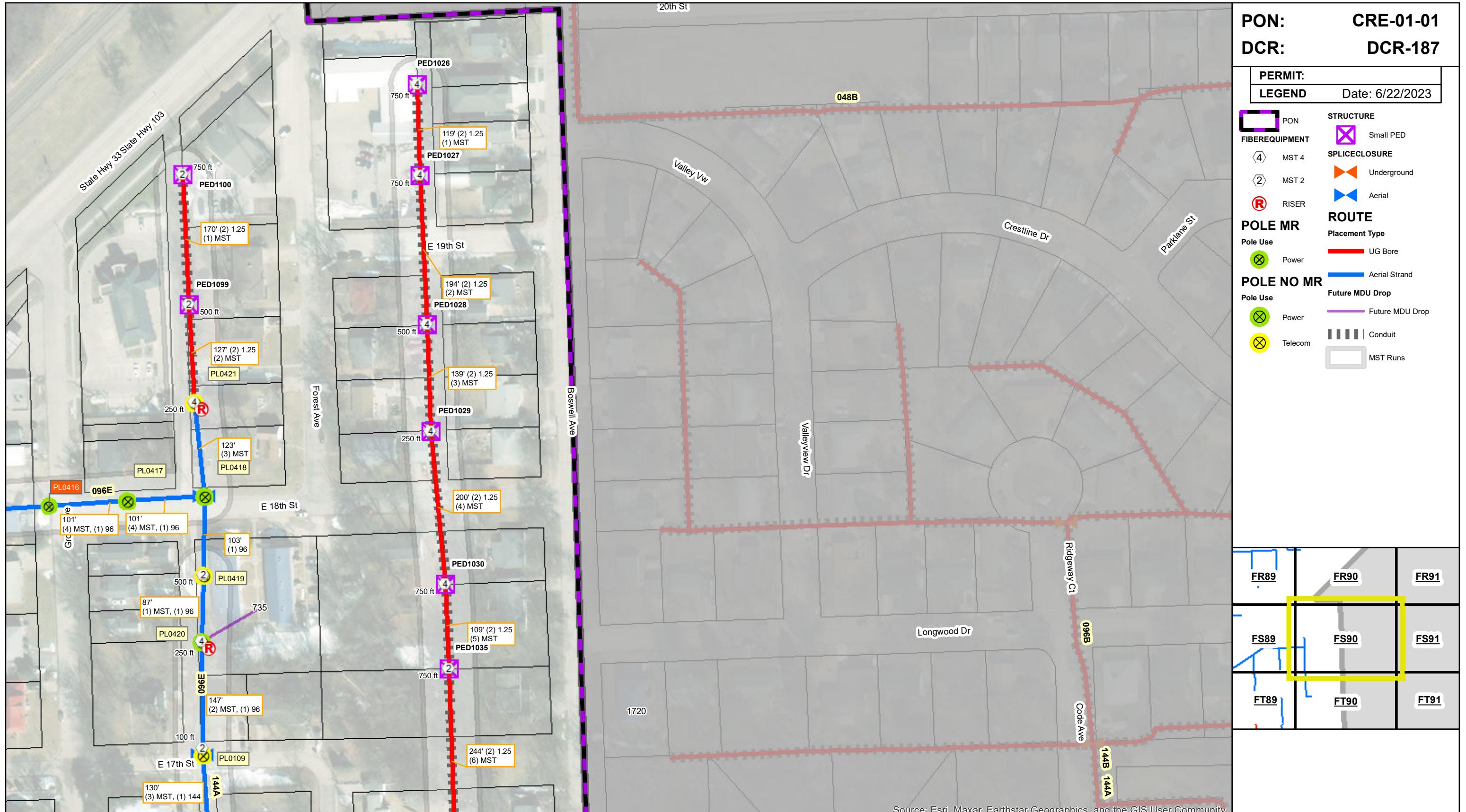
The Nebraska 811 logo features the word "Nebraska" in a large, bold, red sans-serif font. The number "811" is in a larger, yellow sans-serif font to the right of "Nebraska". Below "Nebraska" is the tagline "Know what's below." in a smaller black sans-serif font. To the right of the tagline is a small graphic of a shovel. At the bottom, there is a call-to-action: "Call before you dig." in a black sans-serif font.

Notes:

Revisions

N

1 in = 122 ft



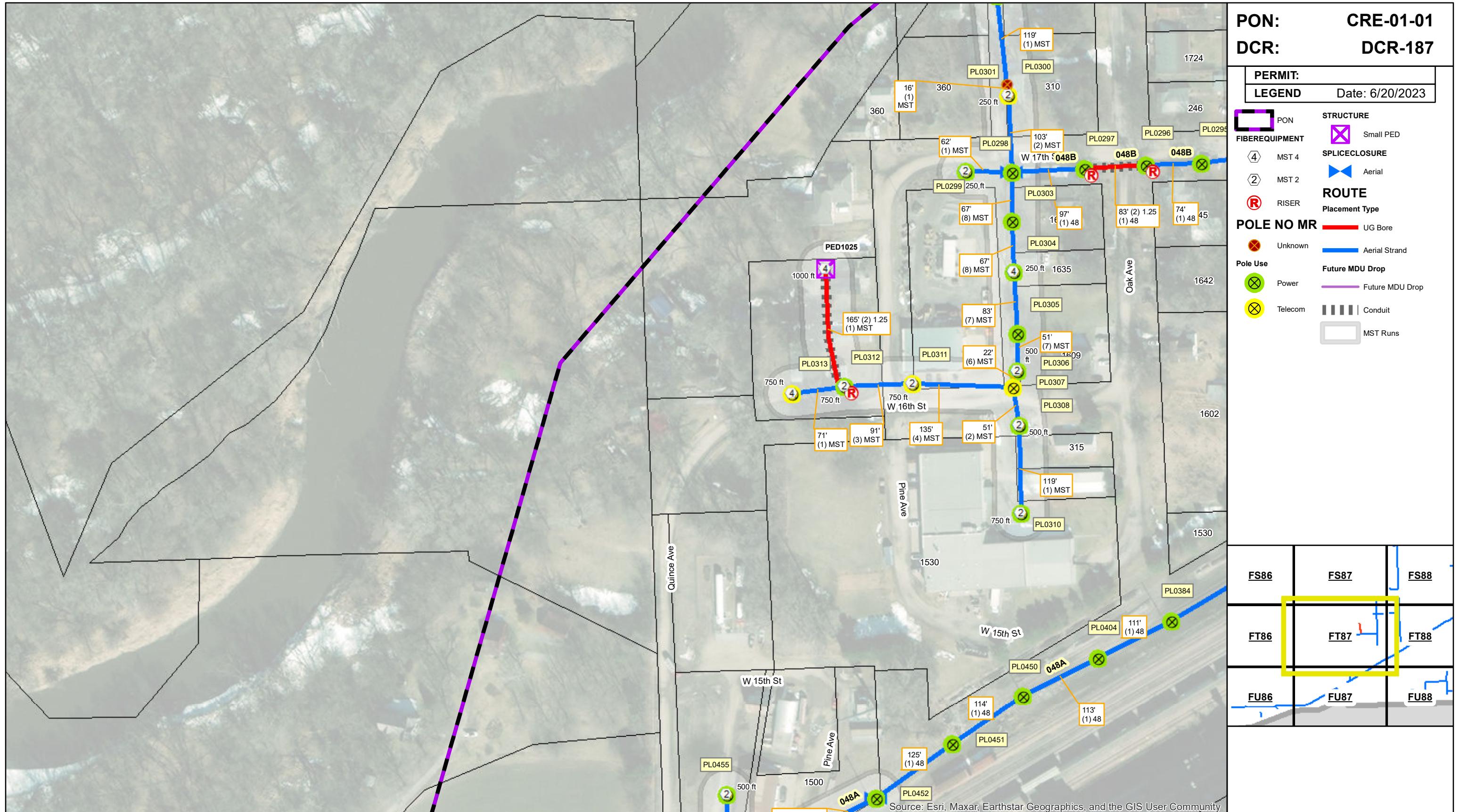
The Nebraska 811 logo features the word "Nebraska" in a large, bold, red sans-serif font. The number "811" is in a larger, yellow sans-serif font to the right of "Nebraska". Below "Nebraska" is the tagline "Know what's below." in a smaller black sans-serif font. To the right of the tagline is a small graphic of a shovel. At the bottom, there is a call-to-action: "Call before you dig." in a black sans-serif font.

Notes:

Revisions:

N

1 in = 118 ft



The Nebraska 811 logo features the word "Nebraska" in a large, bold, red sans-serif font. The number "811" is integrated into the "a" and "e" of "Nebraska". Below "Nebraska" is the tagline "Know what's below." in a smaller black font. At the bottom right is a green shovel icon.

Notes

Revisions

A black north arrow icon consisting of a downward-pointing triangle with a vertical line extending from its top vertex.



The Nebraska 811 logo features the word "Nebraska" in large red letters with a black outline, followed by "811" in a smaller yellow circle. Below this, the slogan "Know what's below." is written in black, and "Call before you dig." is written in a smaller font below it. The entire logo is set against a background of a blue and white plaid pattern.

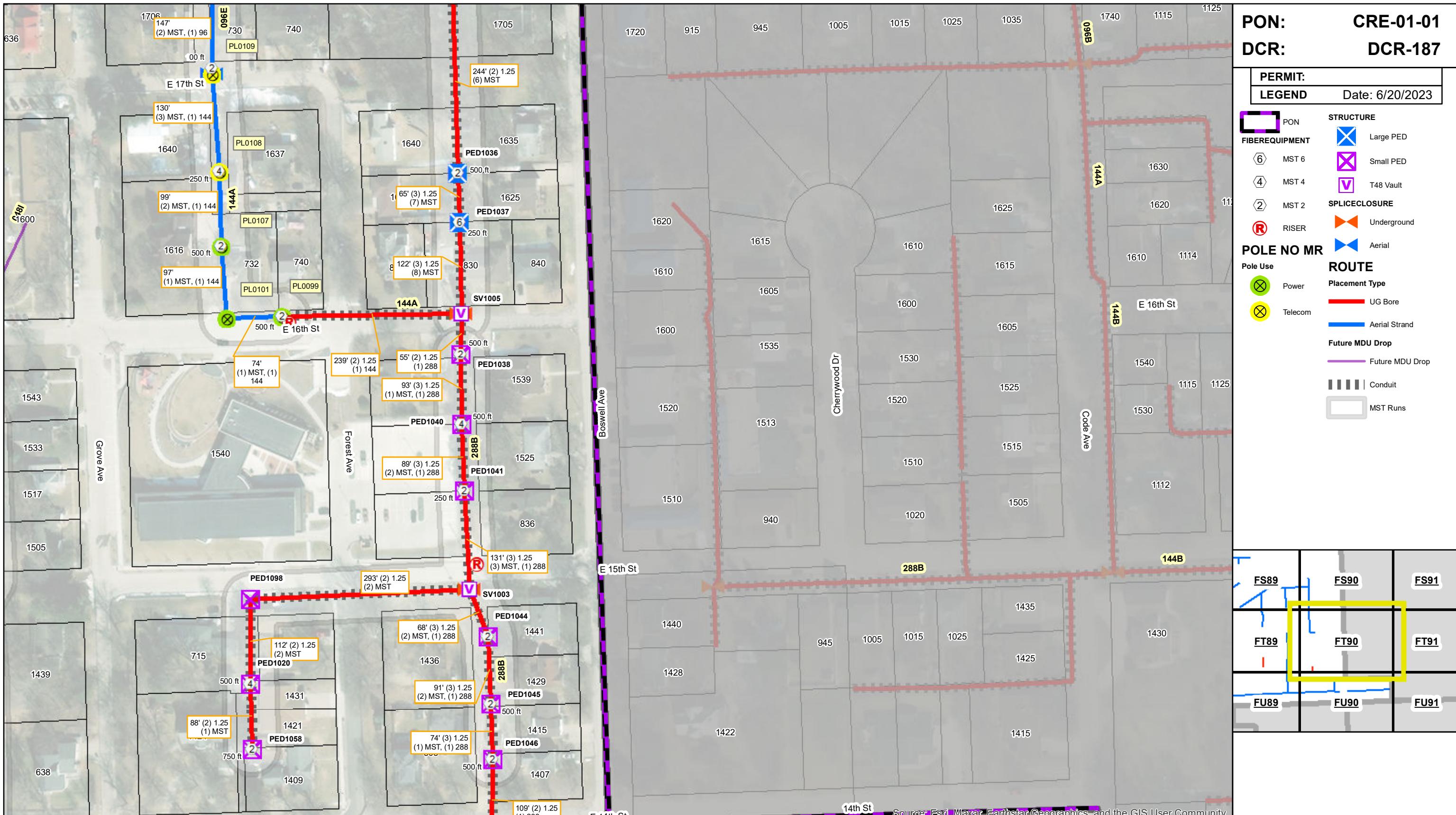
Notes:

Revisions

N

1 in = 122 ft





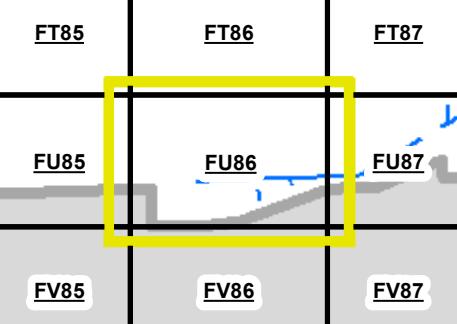
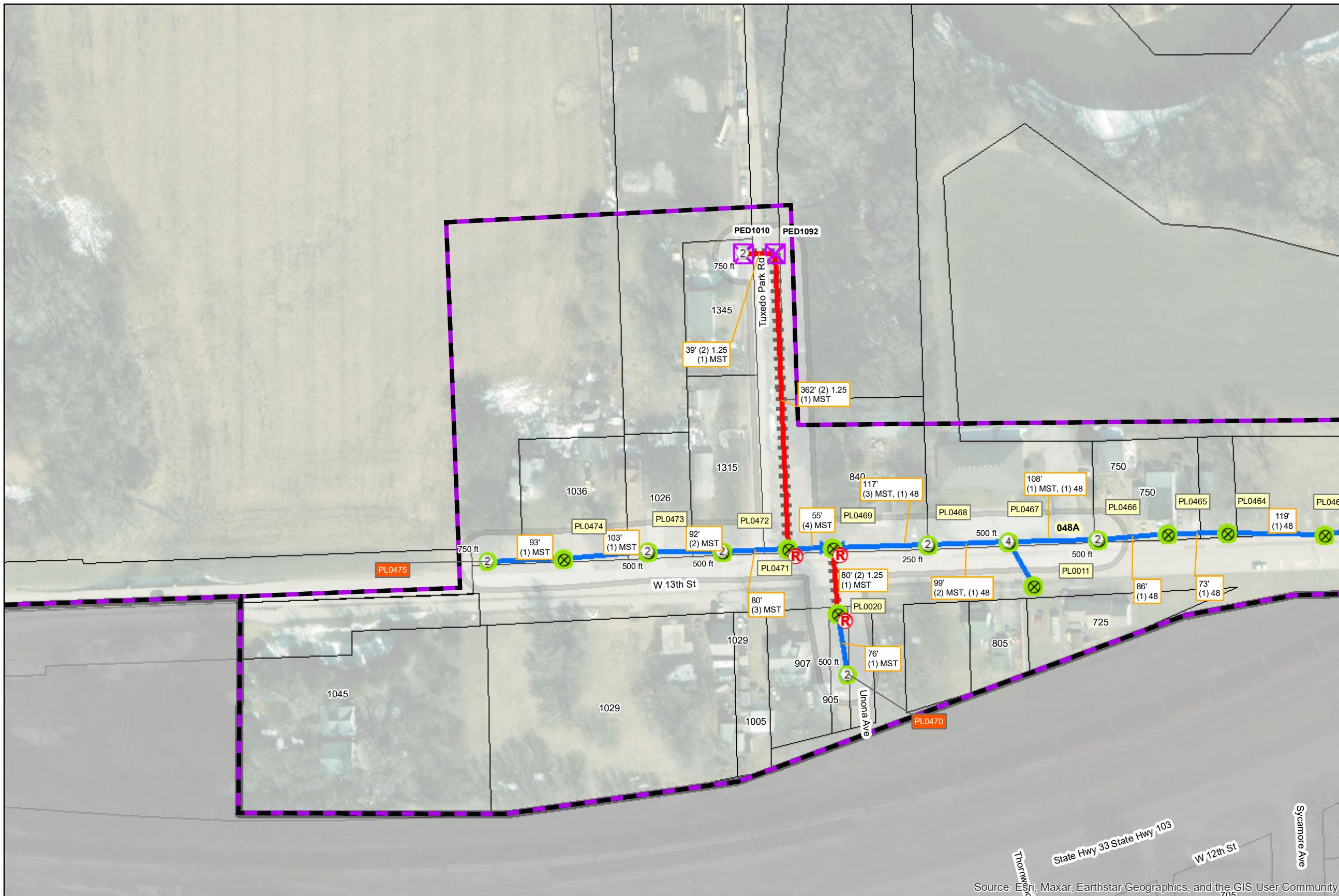
Notes: PLCS Project Routes have been permitted separately

Revisions:

PON: CRE-01-01
DCR: DCR-187

PERMIT:
LEGEND Date: 6/20/2023

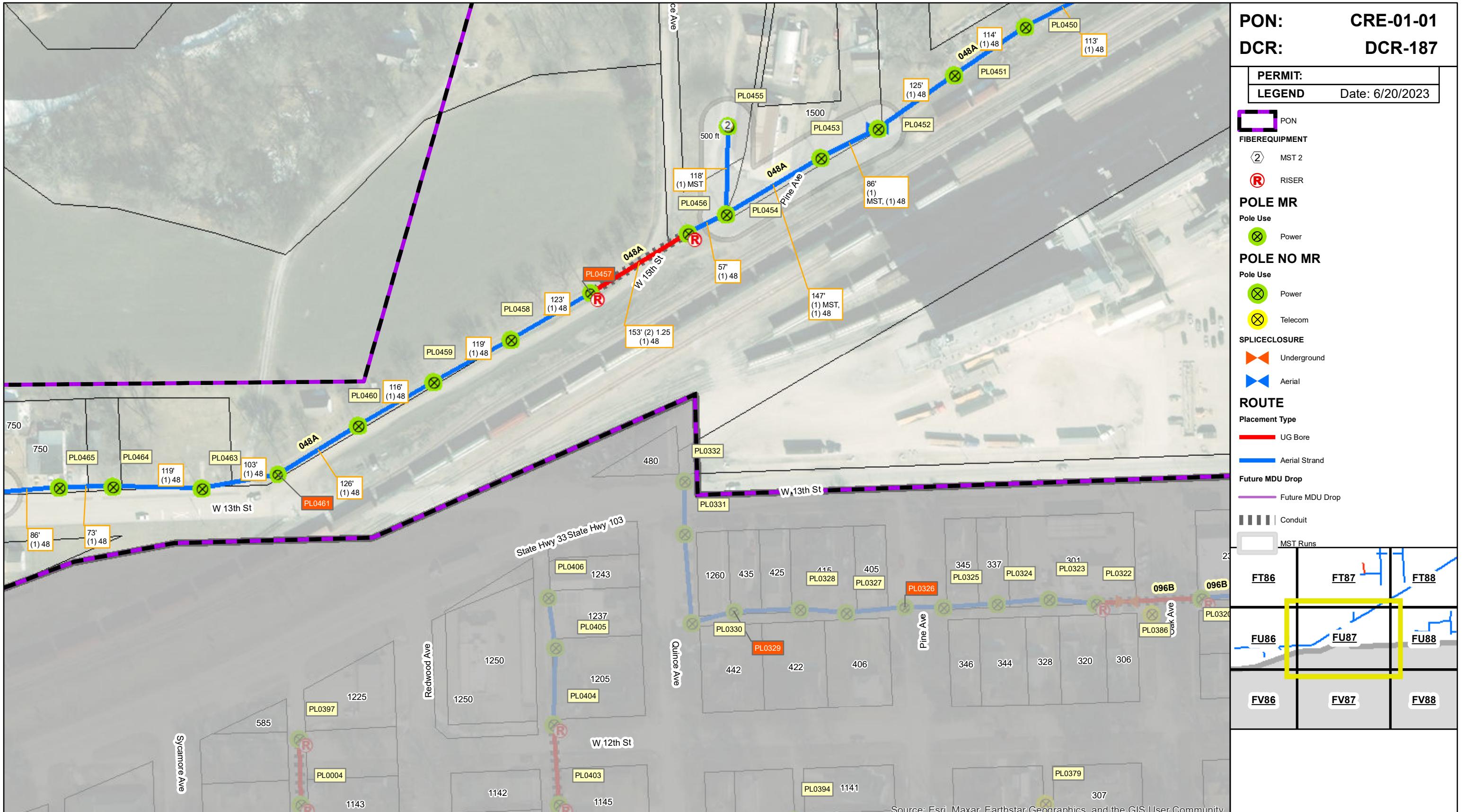
	PON	STRUCTURE
	FIBER EQUIPMENT	Small PED
	SPLICECLOSURE	Aerial
	ROUTE	Placement Type
	POLE MR	UG Bore
	POLE NO MR	Aerial Strand
	ROUTE	Future MDU Drop
	POLE USE	Future MDU Drop
	ROUTE	Conduit
	POLE USE	MST Runs



Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

N

1 in = 122 ft



The Nebraska 811 logo features the text "ne1call.com" in a small black font above the word "Nebraska" in large red letters. To the right of "Nebraska" is the number "811" in large white digits with a yellow outline. Below "Nebraska" is the tagline "Know what's below." in black text. To the right of the tagline is a graphic of a shovel digging into the ground.

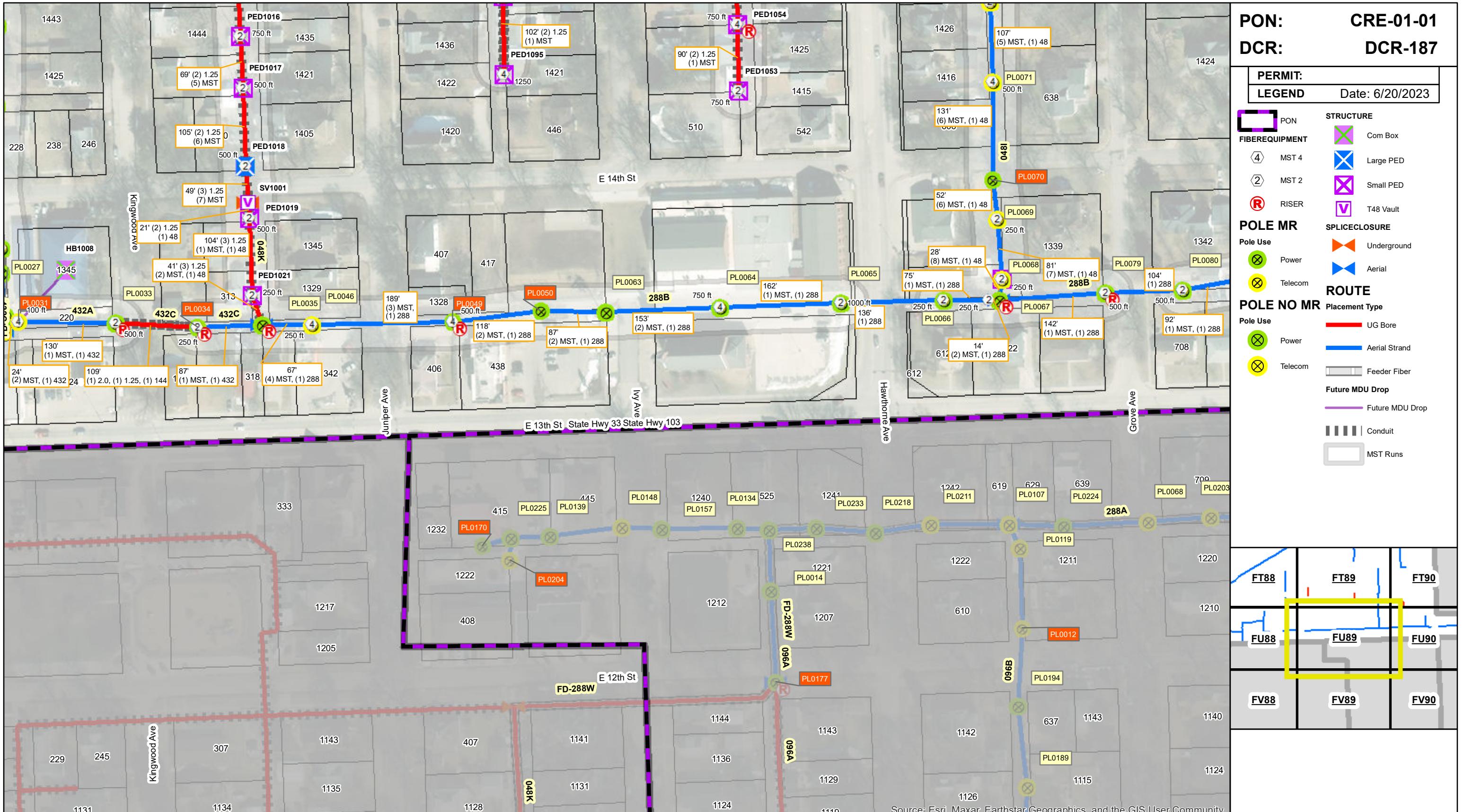
Notes

Revisions

N

- 122 ft





Notes

Revisions

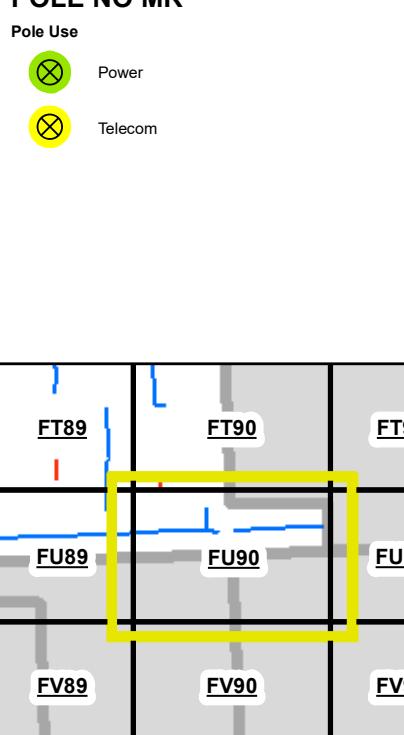
N

1 in = 122 ft

PON: CRE-01-01
DCR: DCR-187

PERMIT:	Date: 6/20/2023
LEGEND	

	PON
	FIBER EQUIPMENT
	SPLICE CLOSURE
	Aerial
ROUTE	
	Placement Type
	UG Bore
	Aerial Strand
	Feeder Fiber
POLE MR	
	Pole Use
	Unknown
	Future MDU Drop
	Power
	Telecom
POLE NO MR	
	Pole Use
	Power
	Telecom



Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

