THE CITY OF
CANTON
THOMAS M. BERNABEI, MAYOR

March 29, 2016

Ohio Environmental Protection Agency
Northeast District Office
Attn: Ms. Laura Barrett
2110 East Aurora Road
Twinsburg, Ohio 44087-1969

Re: Outfall 300 – Sanitary Sewer Overflow Annual Report

Dear Ms. Barrett,

Please find enclosed one (1) copy of the City of Canton's Sanitary Sewer Overflow Annual Report as required by our National Pollutant Discharge Elimination System (NPDES) Permit. One additional copy of this report is also being transmitted to the Ohio EPA, Division of Surface Water, NPDES Permit Unit by copy of this letter.

Also, as required by our NPDES permit, we are notifying the public of the availability of this report. This will be accomplished by publishing a legal notice in the "The Repository", Canton's local newspaper. We will also post the report on the City of Canton's website at www.cantonohio.gov.

If you have any questions, please contact our office at (330) 489-3031.

Sincerely,

James M. DiMarzio
Collection Systems Superintendent

cc: Ohio EPA, Division of Surface Water, NPDES Permit Unit (1 copy)
William L. Bartos, Director of Public Service
Daniel J. Moeglin, P.E., S.I., City Engineer
Tracy J. Mills, WRF Superintendent
Douglas J. Harris, P.E., WRF Assistant Superintendent
File

Canton City Hall
218 Cleveland Avenue S.W.
Canton, OH 44702

Phone: 330-489-3283
Fax: 330-489-3282
www.cantonohio.com

Sanitary Sewer Overflow Annual Report

Division of Surface Water

Date:	March 28, 2016
Facility Name:	City of Canton, Ohio
Ohio NPDES permit no.:	3PE00000*PD
Period covered by report:	January 1, 2015 - December 31, 2015
Contact Person	
Name:	James M. DiMarzio
Title:	Superintendent
Mailing Address:	2901 Regent Avenue NE, Canton, Ohio 44705
Telephone:	(330) 438-6941
Email	james.dimarzio@cantonohio.gov

Certification:

I certify under penalty of law that I have personnally examined and am familiar with the information in this report and all attachments. Based on my inquiry of those persons immediately for obtaining the information contained in the report, I believe that the information is true, accurate, and complete

Name (typed): James M. DiMarzio **Title** Superintendent

Signature: **Date:** 3/29/16

SSO Annual Report Table 1: SSO Identification		Ohio NPDES Permit No.: 3PE00000*PD	
Identification No. A	**Location Description**	**Receiving Water B**	**Eliminated C**
301-2015-01	3rd MH upstream of the first MH north of the intersection of 29th and Harmont Avenue NE	None	02/13/15
301-2015-02	Cleveland Avenue NW at Mt. Vernon Avenue NW	None	5/7/2015
301-2015-WRF	Situated in Stark County, in Canton Township at the Water Reclamation Facility	WRF Bypass to Nimishillen Creek	07/26/15
301-2015-03	4000 Beck Avenue	None	08/18/15

A. Assign each SSO location a unique identification by numbering them consecutively, beginning with 301.

B. Enter name of receiving water. If an SSO enter a storm sewer, enter "SS to (name of receiving water)". If an SSO does not reach a receiving water, enter "None".

C. If an SSO has been eliminated, enter the date of elimination (MM/DD/YY)

Use additional pages as needed.

EPA 4238 (06/06)

SSO Annual Report Table 2: SSO Event Information Ohio NPDES Permit No.: 3PE00000*PD

Date [A]	Identification No. [B]	Receiving Water [C]	Volume [D]
02/13/15	301-2015-01	None	<0.0005 MG
05/07/15	301-2015-02	None	<0.00005 MG
07/26/15	301-2015-WRF	WRF Bypass to Nimishillen Creek	0.436 MG
08/18/15	301-2015-03	None	Unknown

A. Enter date as "MM/DD/YY". Enter "Various" to summarize overflows of less than 1000 galllons from an SSO location.

B. Enter the unique identification assigned in Table 1

C. Enter name of receiving water. If an SSO enters a storm sewer, enter "SS to (name of receiving water)". If an SSO does not reach a receiving water, enter "None".

D. Enter estimate of volume in MG (million of gallons). Enter estimate of total volume if summarizing data.

Use additional pages as needed.

EPA 4238 (06/06)

SSO Annual Report Table 3: Water In Basement Occurrences		Ohio NPDES Permit No.: 3PE00000*PD
Sewershed [A]	**WIB Occurences (Public) [B]**	**Causes [C]**
1 NW	**3**	
2 NW	**1**	
3 NW	**4**	
4 NW	**2**	**G, B**
5 NW	**5**	**L, B**
6 NW	**1**	
7 NW	**2**	
8 NW	**3**	**G**
9 NW		
10 NW		
11 NW		
12 NW	**1**	
13 NW		
14 NW		
15 NW		
16 NW		
17 NW		
18 NW		
19 NW	**1**	
20 NW		
21 NW		
22 NW		
23 NW		
24 NW		
1 SE	**1**	
2 SE	**1**	**G**
3 SE		
4 SE		
5 SE		
6 SE	**1**	
7 SE		
8 SE	**1**	
9 SE	**2**	**G**
10 SE	**2**	
11 SE		
12 SE		
13 SE		

A. A sewershed is a specific geographic area, such as a city block or a subdivision, that drains to a common outlet.

B. Enter the total number of water in basement occurences reported for the sewershed.

C. Enter all causes that apply: W= extreme weather; E = equipment failure; P = power failure; D = debris in line; R = roots; G = grease; B = other blockages; L = line deterioration; V = vandalism; O = other, provide details.

Use additional pages as needed.

EPA 4238 (06/06)

SSO Annual Report Table 3: Water In Basement Occurrences		Ohio NPDES Permit No.: 3PE00000*PD
Sewershed [A]	**WIB Occurences (Public) [B]**	**Causes [C]**
1 SW		
2 SW	1	
3 SW	1	
4 SW		
5 SW		
6 SW	4	G
7 SW	4	B
8 SW		
9 SW		
10 SW	1	
11 SW	1	
12 SW	1	
13 SW		
14 SW		
15 SW	5	B
16 SW		
17 SW		
18 SW		
19 SW		
20 SW		
21 SW		
22 SW		
23 SW		
1 NE	2	G
2 NE	1	
3 NE	2	
4 NE		
5 NE		
6 NE		
7 NE		
8 NE		
9 NE	1	
10 NE		
11 NE		
12 NE		
13 NE	2	
14 NE		
15 NE	2	
16 NE	3	
17 NE		
18 NE	1	
19 NE	1	R
20 NE	1	
21 NE		
22 NE		
23 NE		
24 NE		

A. A sewershed is a specific geographic area, such as a city block or a subdivision, that drains to a common outlet.

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C. Enter all causes that apply: W= extreme weather; E = equipment failure; P = power failure; D = debris in line; R = roots; G = grease; B = other blockages; L = line deterioration; V = vandalism; O = other, provide details.

Use additional pages as needed.

EPA 4238 (06/06)

SSO Annual Report: Water in Basement Narratives	Ohio NPDES Permit No.: 3PE00000*PD

Enter narative anaysis of WIB patterns by location, frequency and cause.

In the past, the City has performed Inflow and Infiltration (I/I) Studies and Sanitary Sewer Evaluation Studies (SSES), via engineering consultants, to evaluate the condition of the sanitary sewer system. In these studies, the system was divided into several sewersheds. The enclosed drawings, collectively called Appendix A, identify the sewersheds as included in the previous SSES's. For the purpose of this annual report, we have utilized these sewersheds to determine the number of Water in Basement (WIB) occurrences reported in each. Areas outside of the limits of the previous engineering studies have since been added in a manner consistent with the previous studies.

We have also created spreadsheets and charts of each reported WIB based on sewershed. Summary charts of this information is included in Appendix B. Based on this information, we are performing this analysis of WIB patterns by location, frequency and cause.

In 2015, the City received 459 WIB calls from city sewer customers. Upon receipt of these calls, the Collection Systems Department (CSD) dispatched a cleaning and/or televising crew to investigate the cause of the WIB. Of the 459 calls, 69 were determined to be caused by restrictions of sanitary flow in the main line sewer (referred to as Public WIB) due to various reasons, including debris in the line, broken/deteriorated sewers, and/or grease. The CSD then proceeded to identify and correct, when possible, the cause of the Public WIB.

On many occasions, when it was determined the public sanitary system was not the cause of the WIB, the CSD crew informed the customer of apparent lateral deterioration and/or blockages. By ordinance, laterals from the building to the main line sewer connection are privately owned and maintained by the building owner. The CSD crew would recommend that the customer proceed with remediation efforts and repairs, as applicable, via a private contractor to correct private lateral deficiencies. When available, the cause of the blockage is recorded on the associated work order. However, the cause is typically unknown for a “Private WIB”. For the purposes of this WIB analysis, only publicly caused WIB’s are included.

In past annual reports, the City typically analyzed sewersheds that had five or more Public WIB occurrences in the reporting year. For this reporting year, there were two (2) sewersheds that met this criteria (15SW and 05NW). Individual maps for each of these sewersheds showing the location of each Public WIB within its boundaries follow this WIB analysis. Following is further analysis and information for these areas.

The five public WIB’s reported in sewershed 15 SW were all reported on separate dates and at different locations.

Four of the locations (800 5th St. NW, 506 9th St. NW, 921 3rd St. NW and 811 Essig Ct. NW) all occurred during dry weather. One of these locations (800 5th St. NW) occurred due to a known temporary blockage (shop rags). The cause of the other dry weather backups were unknown.

One location (600 6th St. NW) potentially occurred as a result of wet weather. Approximately 1 inch of rain fell on the day prior to the WIB. It is likely that a temporary obstruction in the sewer combined with slightly higher flow rates due to the previous rain event may have caused this WIB event.

The five public WIB’s reported in sewershed 05 NW were also all reported on separate dates and at different locations.

One location (908 High Ave. NW) likely occurred as a result of the installation of a new utility pole on top of the customers lateral. Gravel was removed from the public sewer just downstream of this location.

Another location (725 12th St. NW) also exhibited some signs of line deterioration. Broken clay pipe and gravel were removed while cleaning this sewer. Follow-up to inspection discovered mainline pipe to be broken by private contractor. Mainline repairs were made by the private contractor.

SSO Annual Report: Water in Basement Narratives	Ohio NPDES Permit No.: 3PE00000*PD

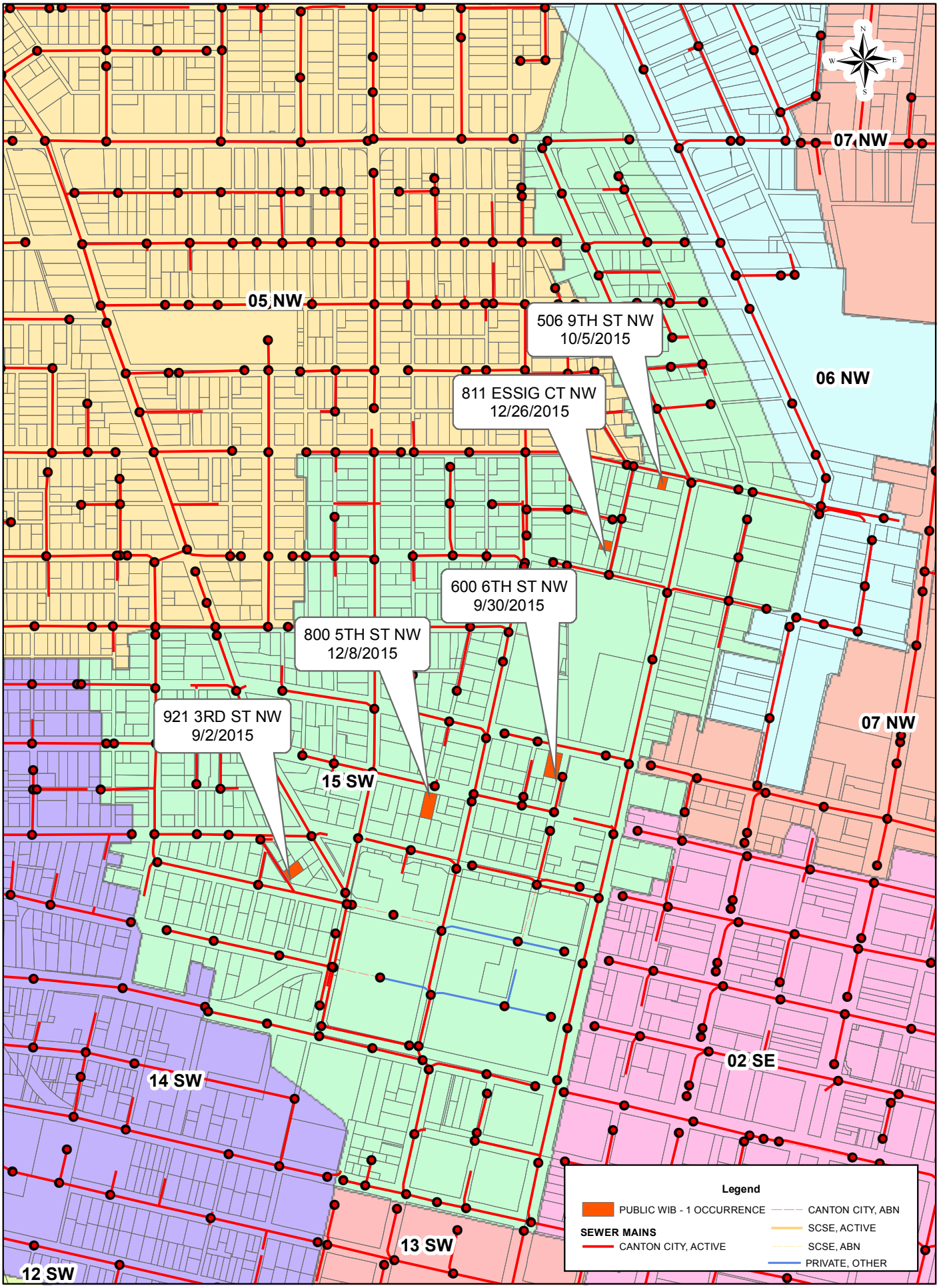
Enter narative anaysis of WIB patterns by location, frequency and cause.

The cause of the sewer backups at the other three (3) locations (709 Fulton Rd. NW, 1311 Jones Ct. NW, 1537 Oxford Ave. NW) all occurred during dry weather. The cause of these other dry weather backups were unknown.

These areas will continue to be monitored in the future for additional reports of WIB. As warranted, additional remediation will be initiated.

The City of Canton operates an old sanitary sewer system with correspondingly old private laterals. As these laterals continue to age, we will continue to receive Private WIB calls. However, the number of Public WIB calls that could have been prevented will continue to be minimized in direct correlation to the cleaning, maintenance and rehabilitation/repair activities performed by this Department.

Based on the enclosed information, there were not concentrated or isolated areas of reoccurring public WIB calls. With the industry-wide emphasis given to data management, the Department will continue to monitor collected information and research areas for future improvement. Since the inception of the City's Satellite Sewer Discharge Control Program (a program formerly required in our NPDES permit), the City has reduced WIB calls significantly. It is expected that as our efforts continue, we will continue to minimize the number of Public WIB's reported within the City of Canton’s sanitary sewer system.

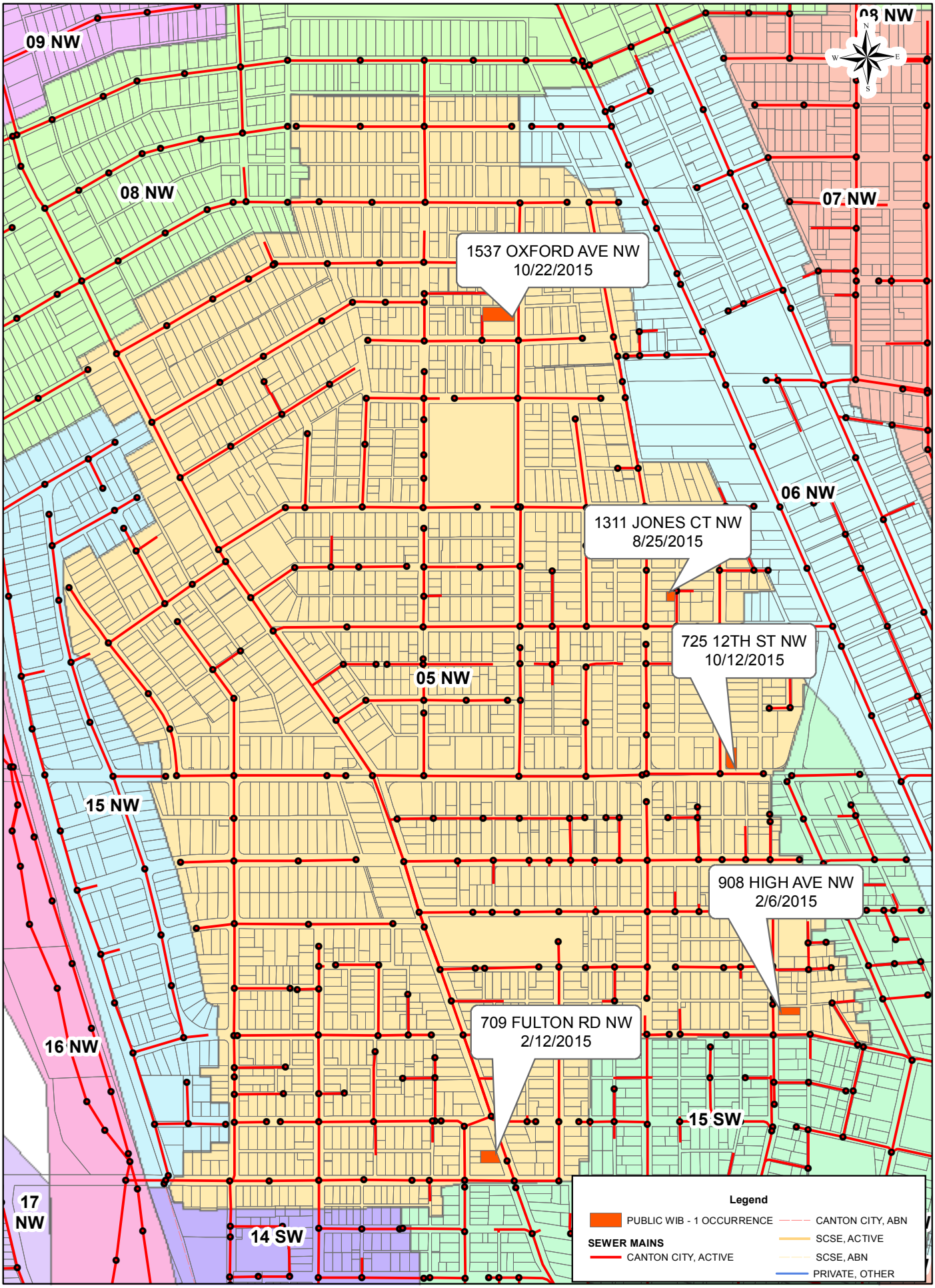


MARCH 2016

City of Canton, Ohio
WIB Analysis - Sewershed 15 SW

1 inch = 500 feet

0 200 400 800 Feet



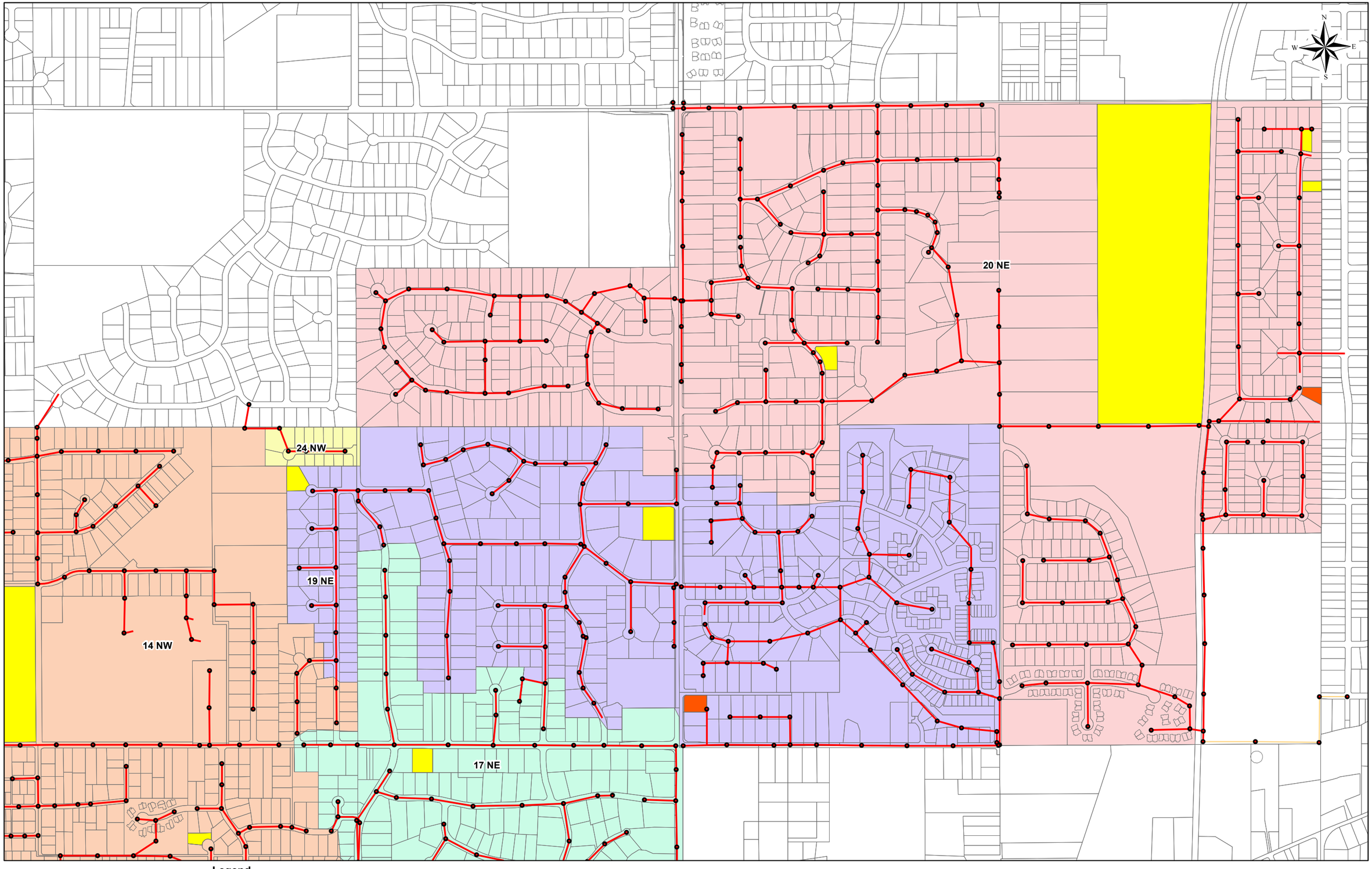
MARCH 2016

City of Canton, Ohio
WIB Analysis - Sewershed 05 NW

1 inch = 600 feet

0 250 500 1,000 Feet

APPENDIX A



Legend

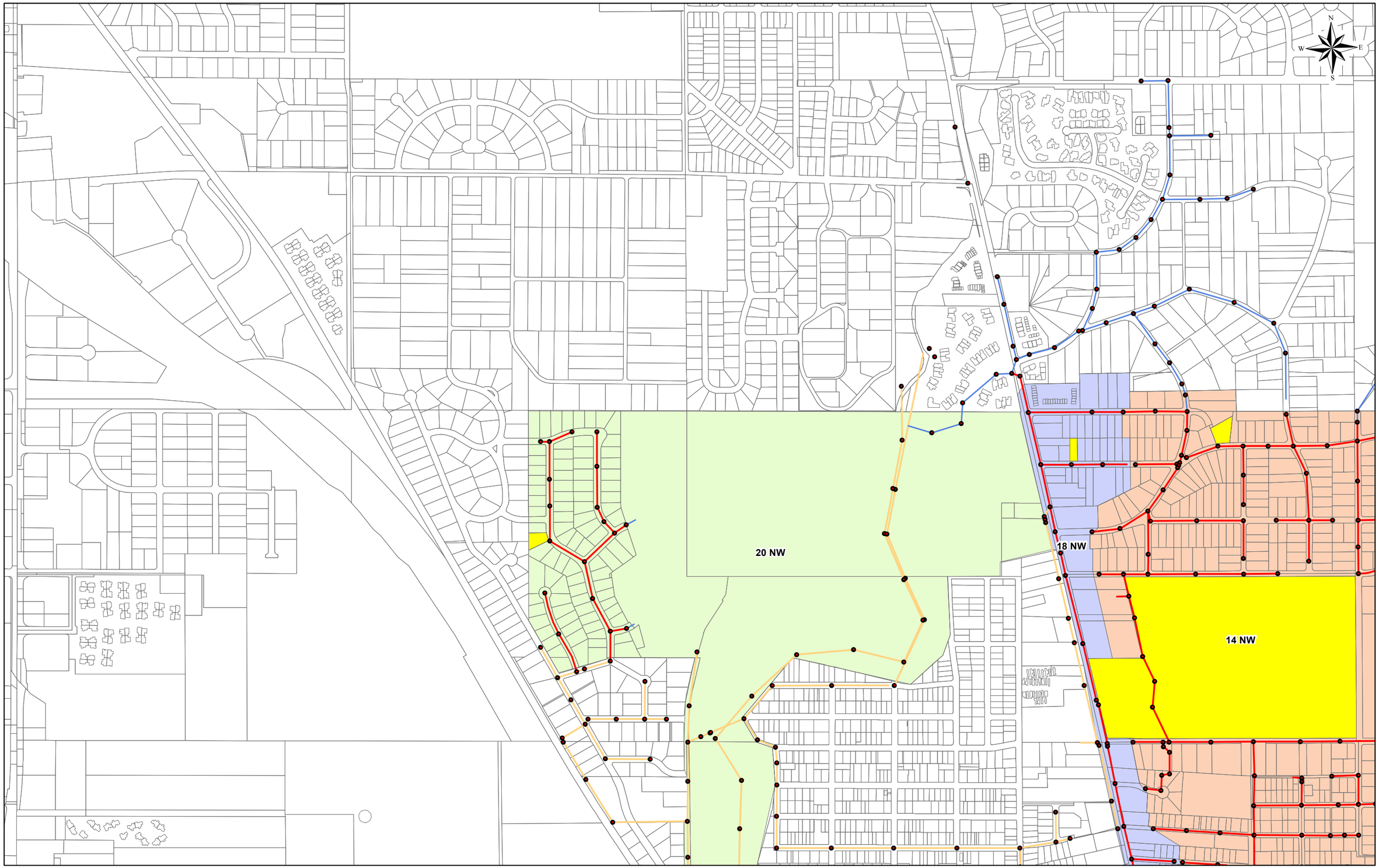
- PUBLIC WIB - 1 OCCURRENCE
- PUBLIC WIB - MULTIPLE OCCURRENCES
- PRIVATE WIB - 1 OCCURRENCE

SEWER MAINS

- CANTON CITY, ACTIVE
- CANTON CITY, ABN
- SCSE, ACTIVE
- SCSE, ABN
- PRIVATE, OTHER

City of Canton, Ohio - Outfall 300
WIB ANALYSIS (PUBLIC AND PRIVATE OCCURRENCES)

0 500 1,000 2,000 Feet



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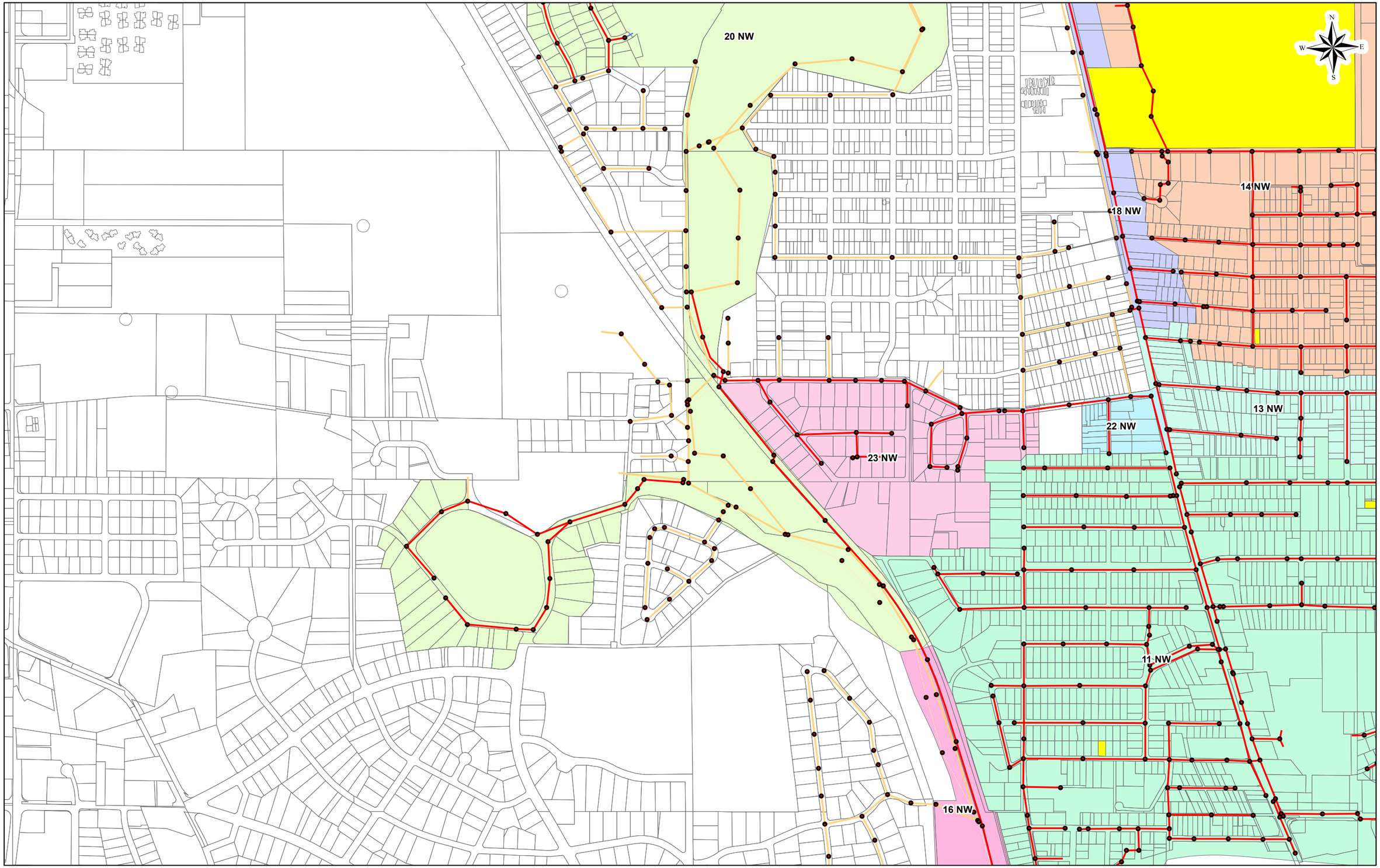

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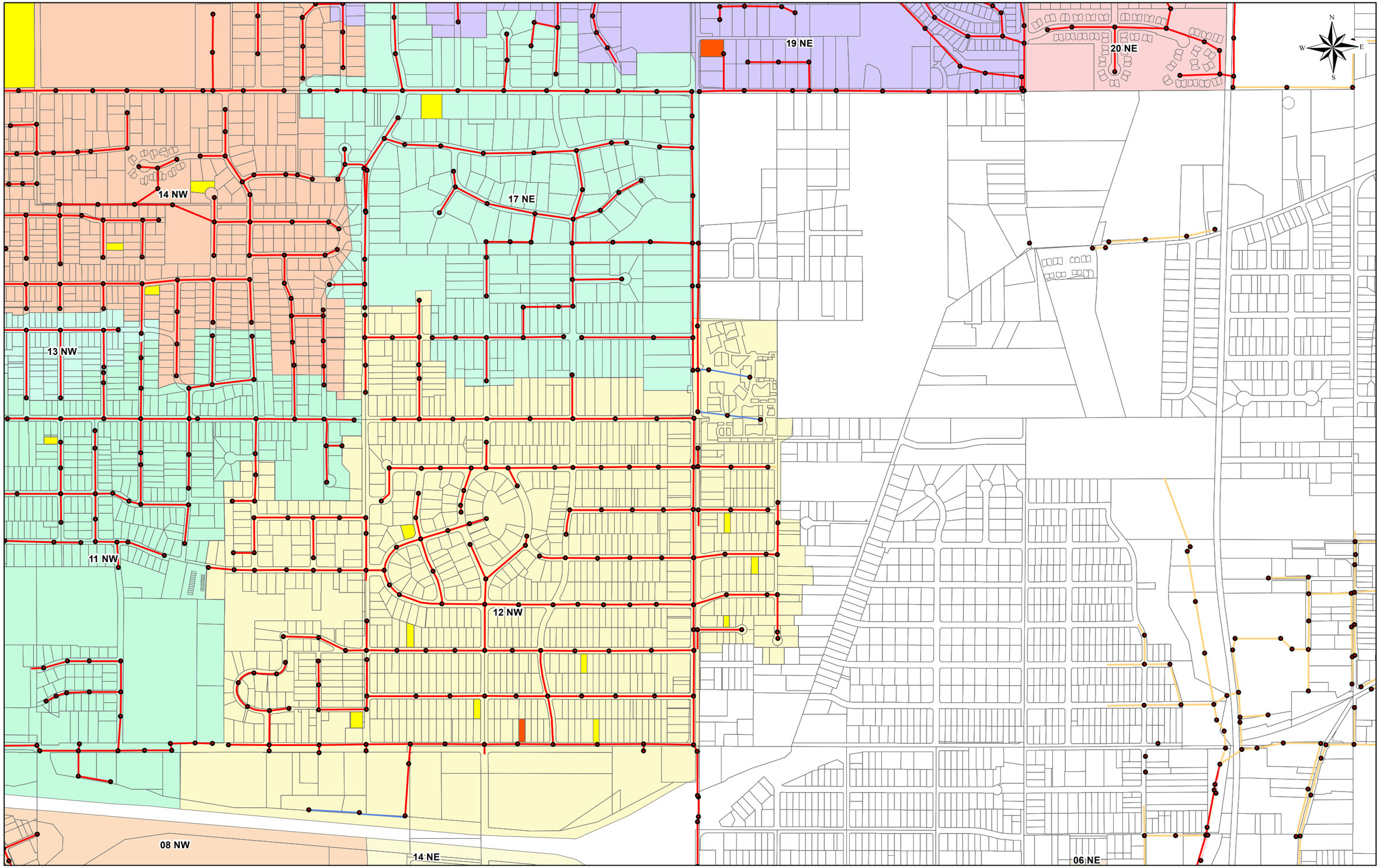

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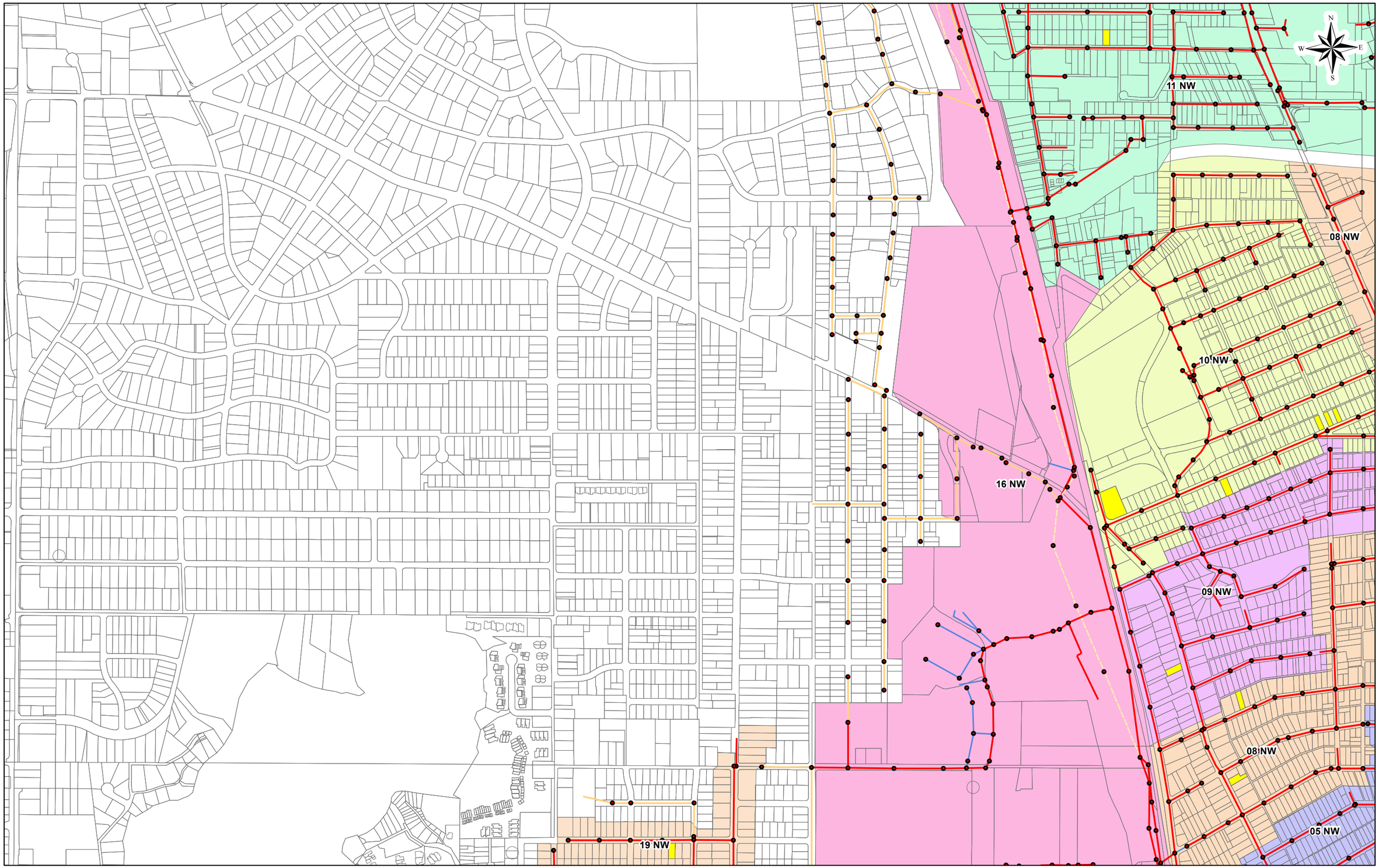

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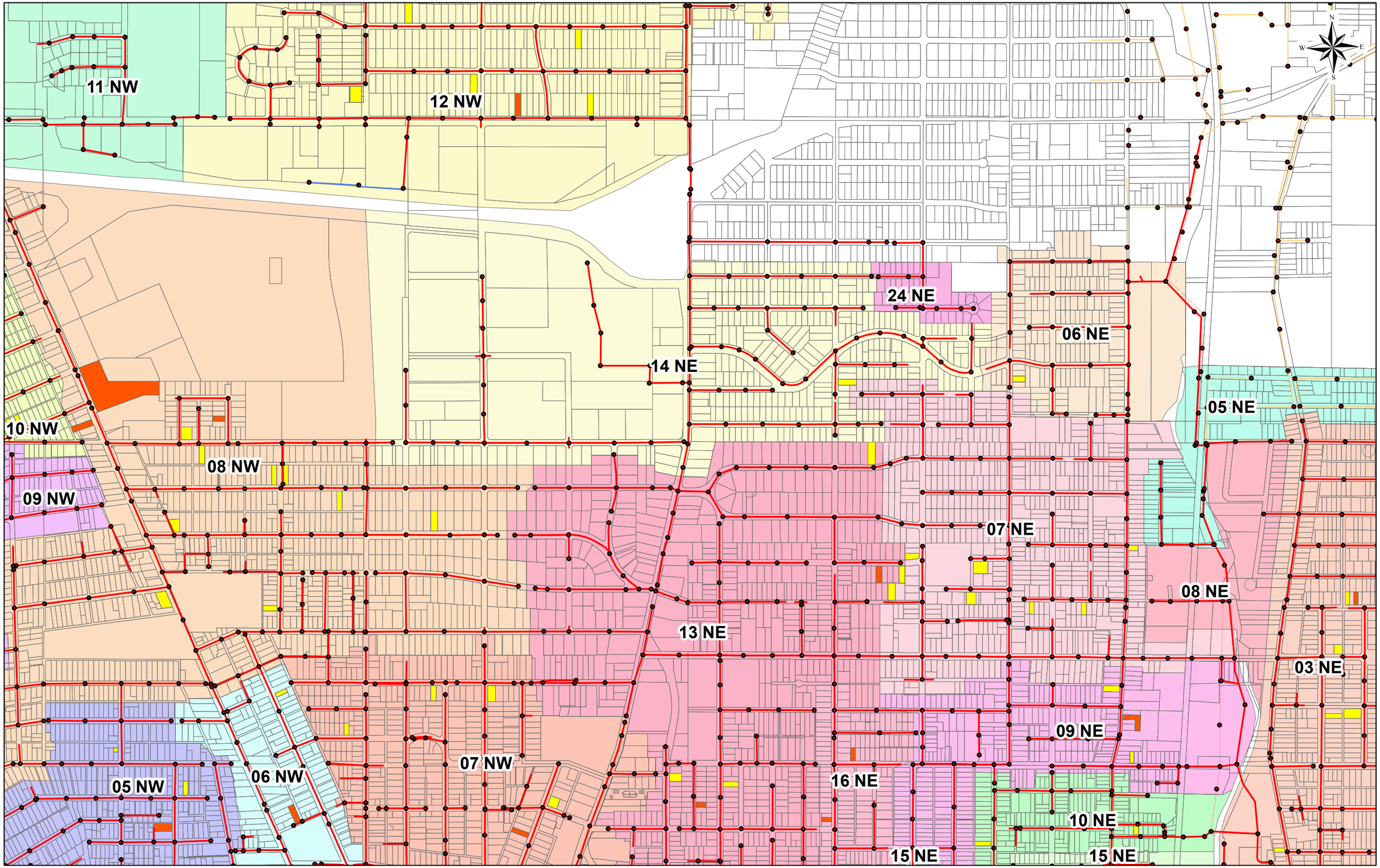

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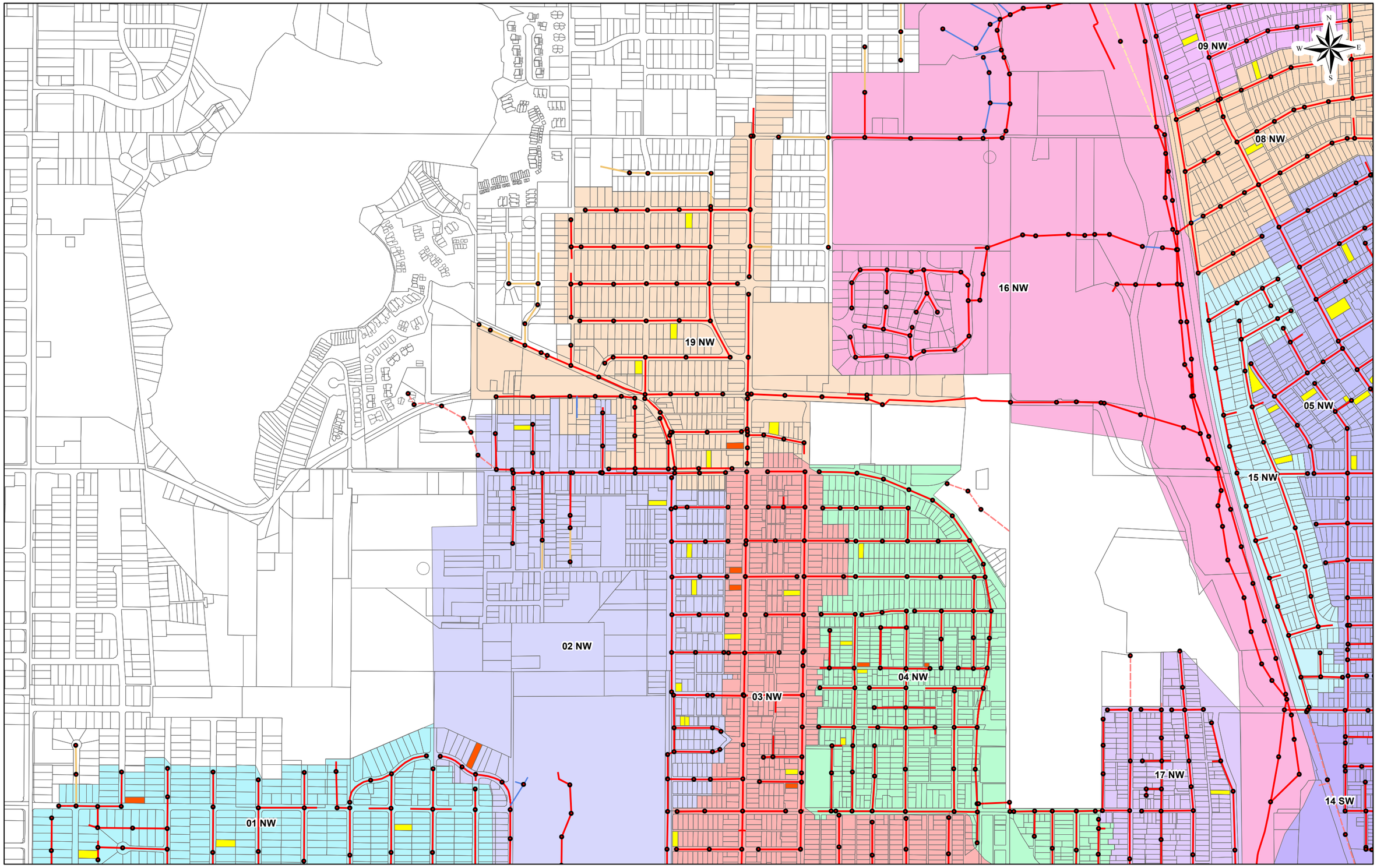

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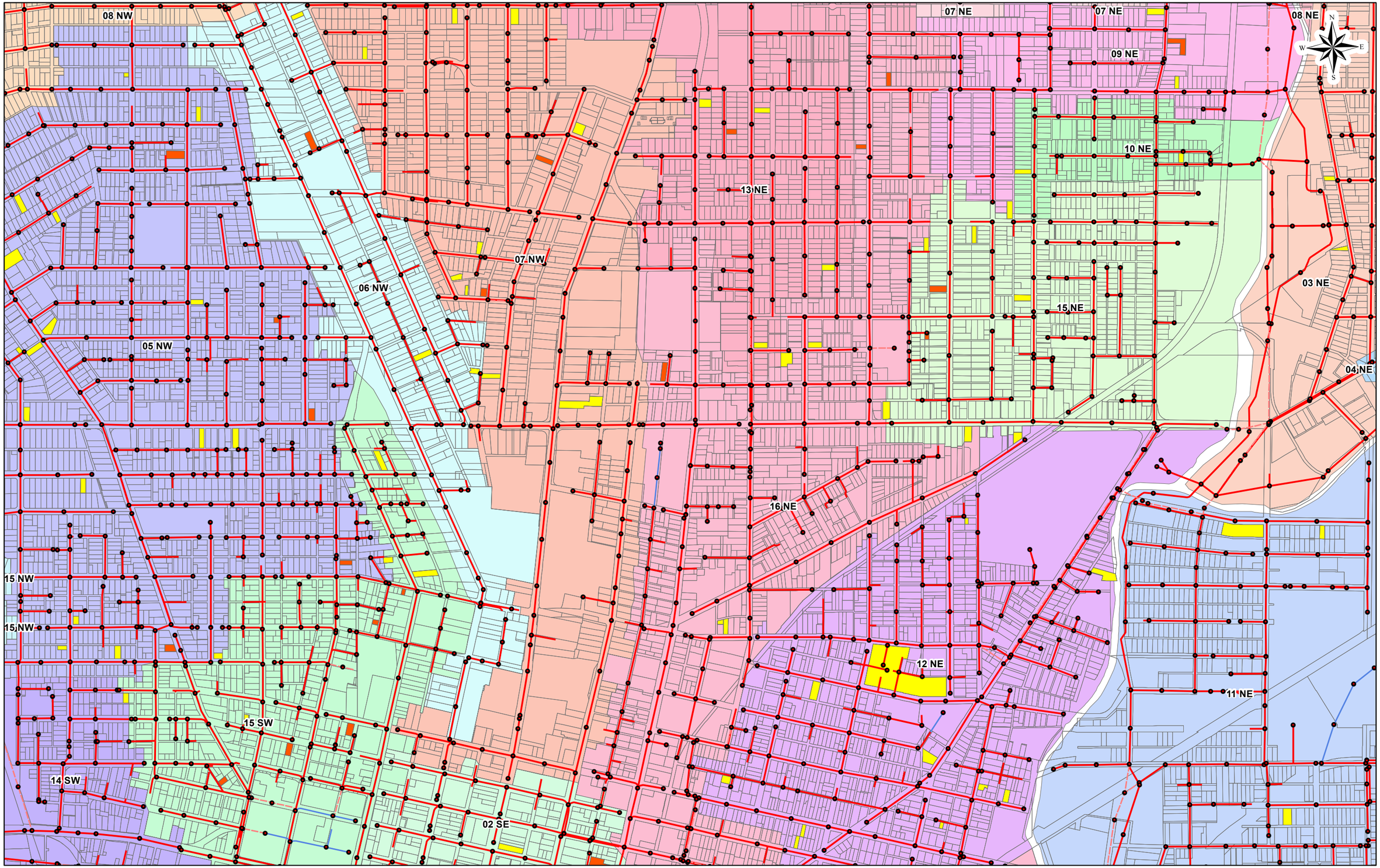

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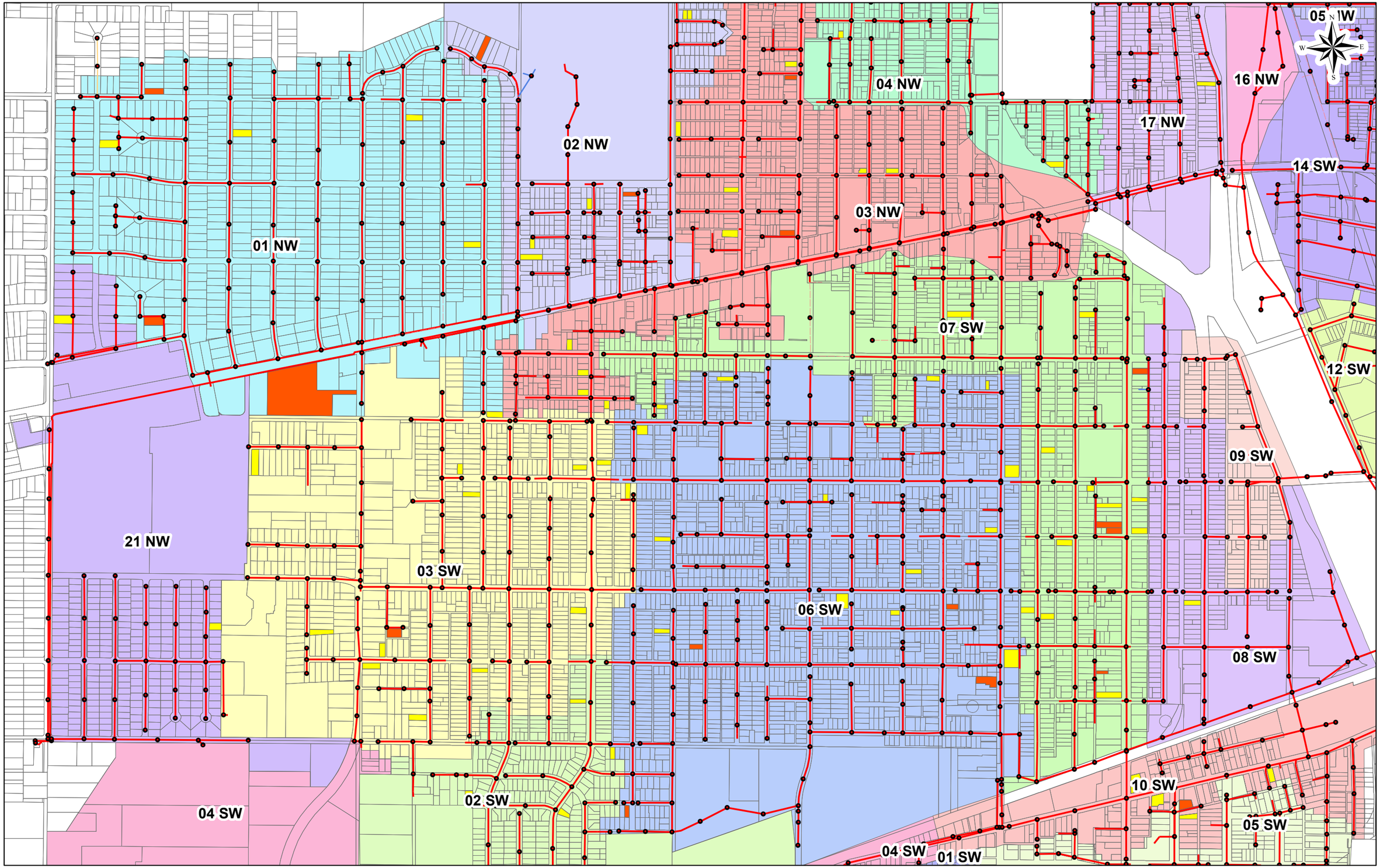

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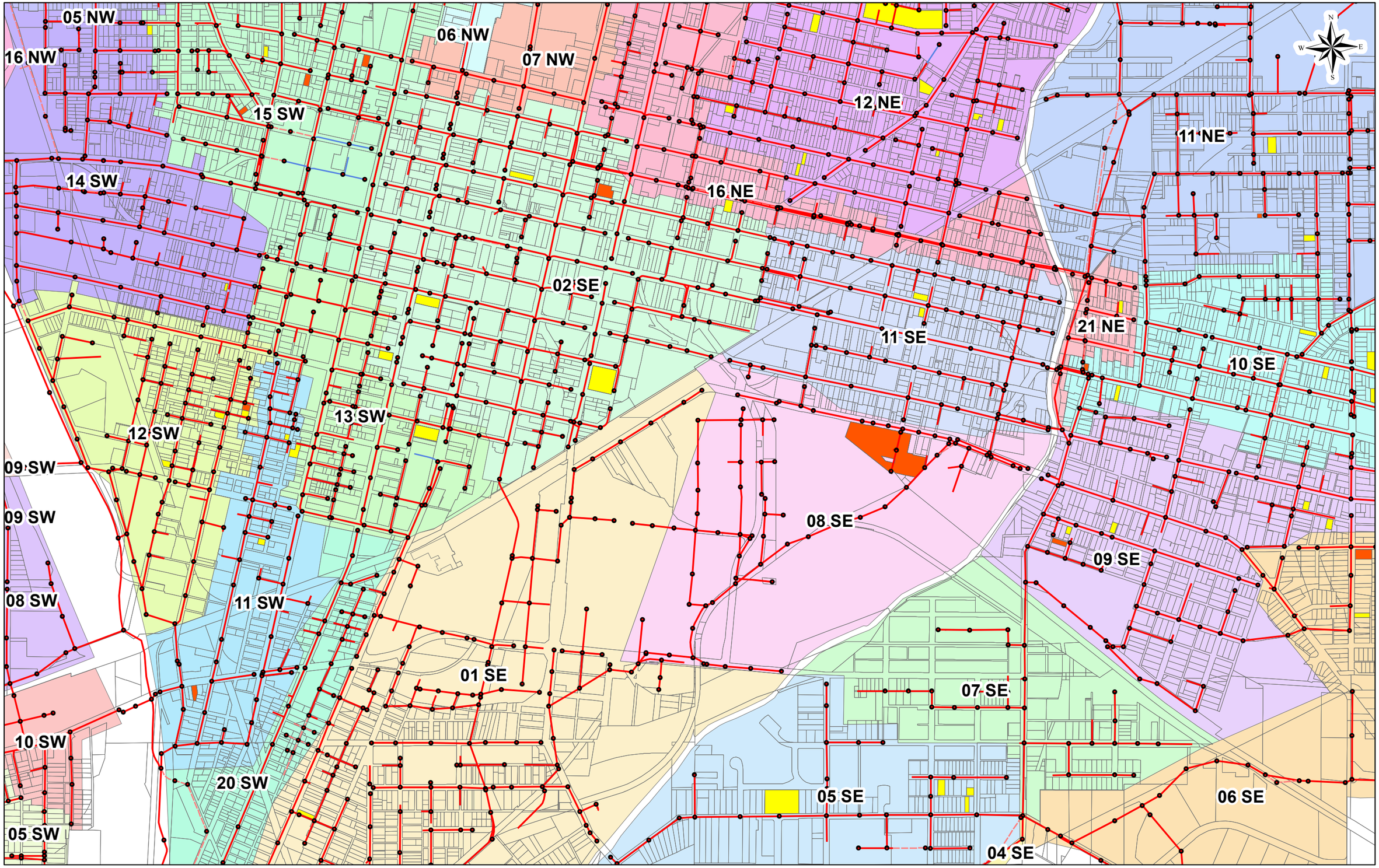

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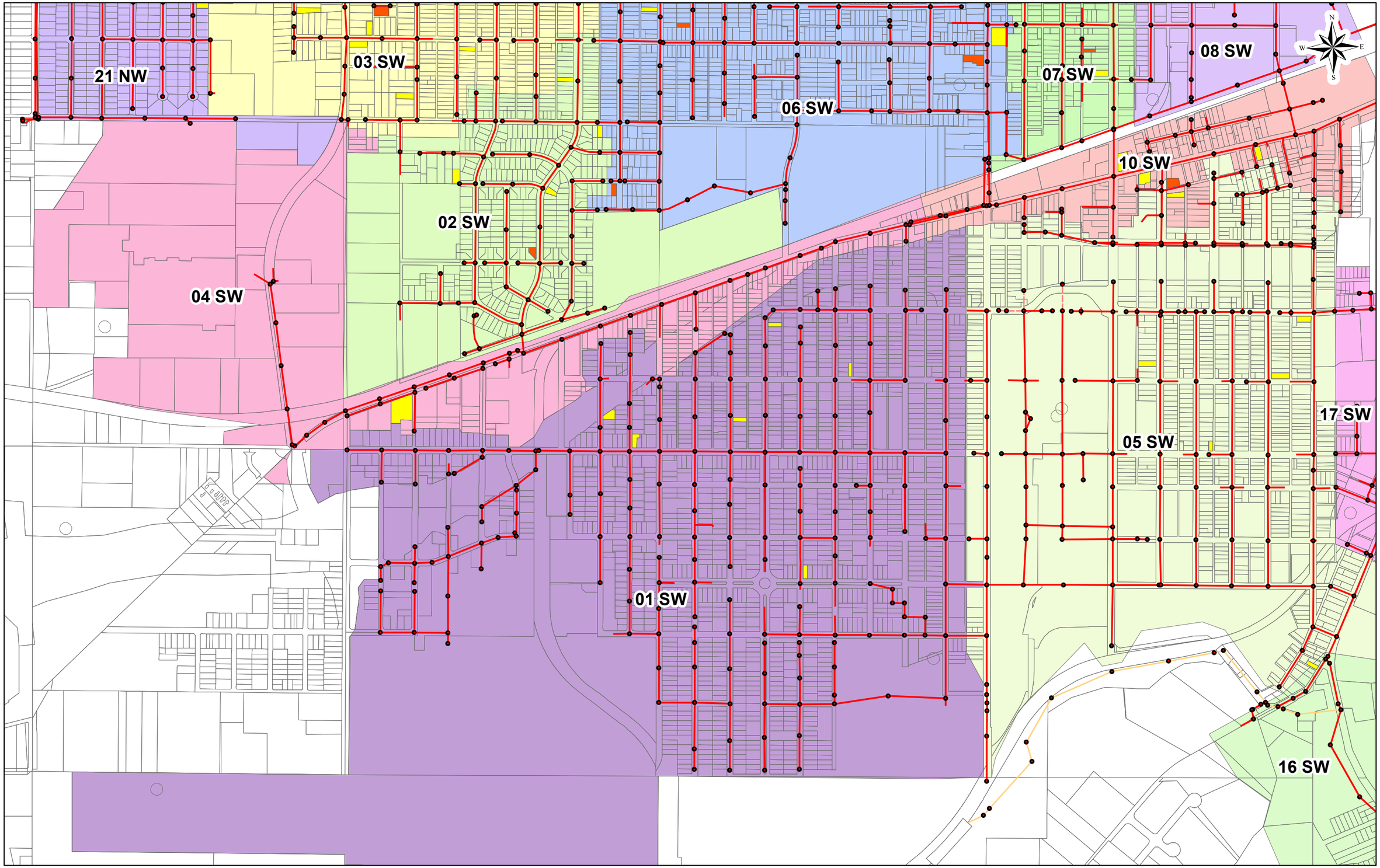

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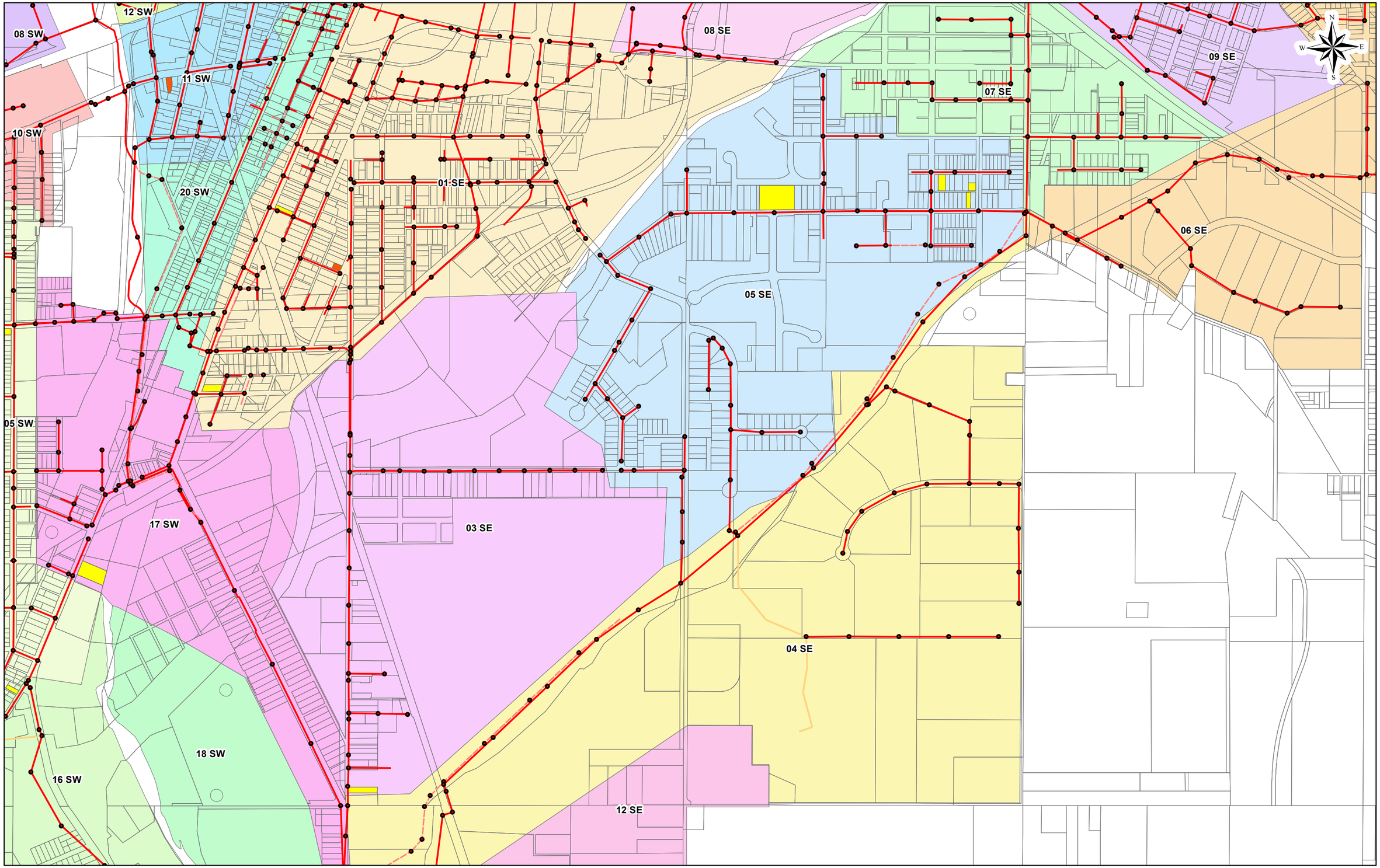

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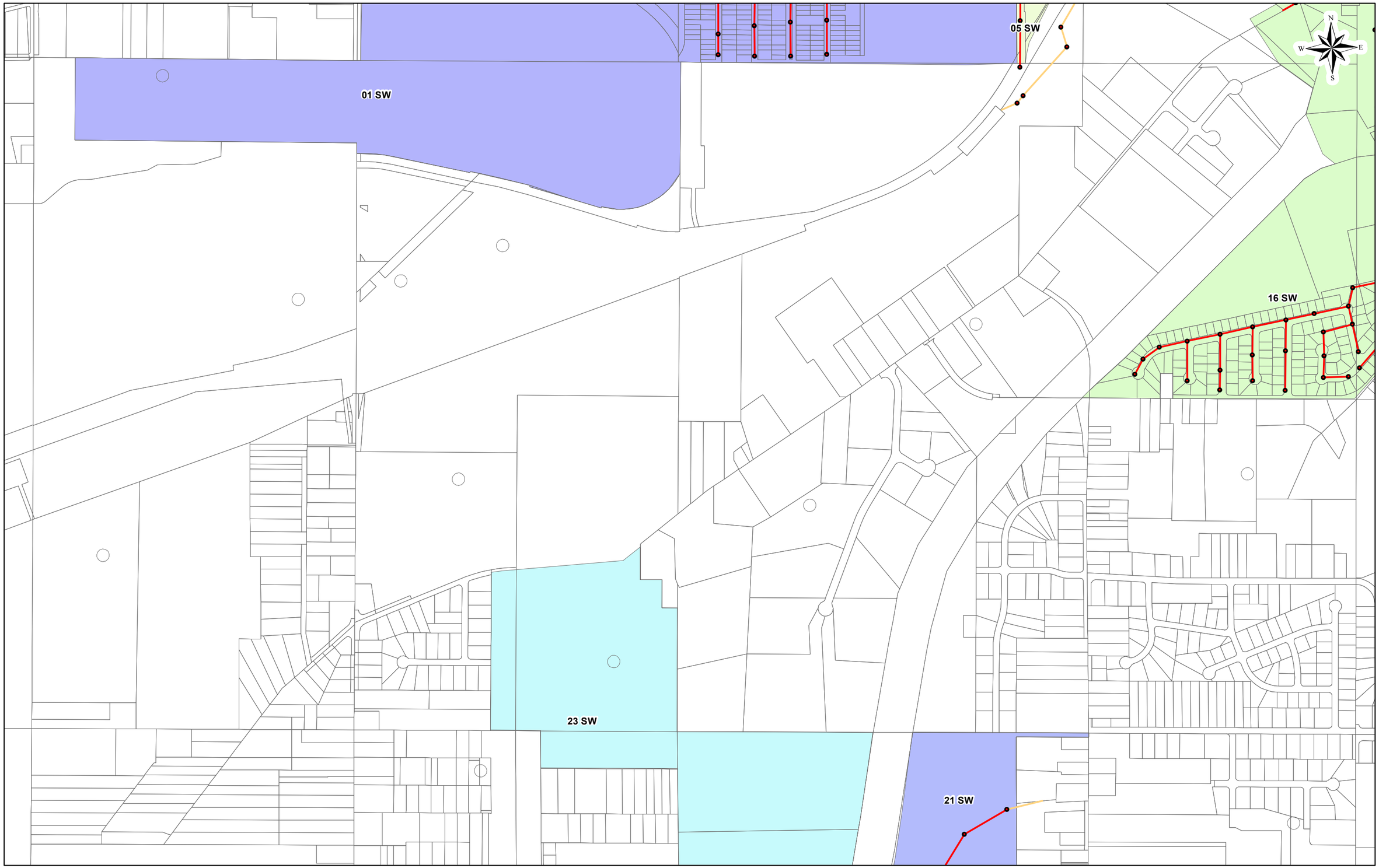

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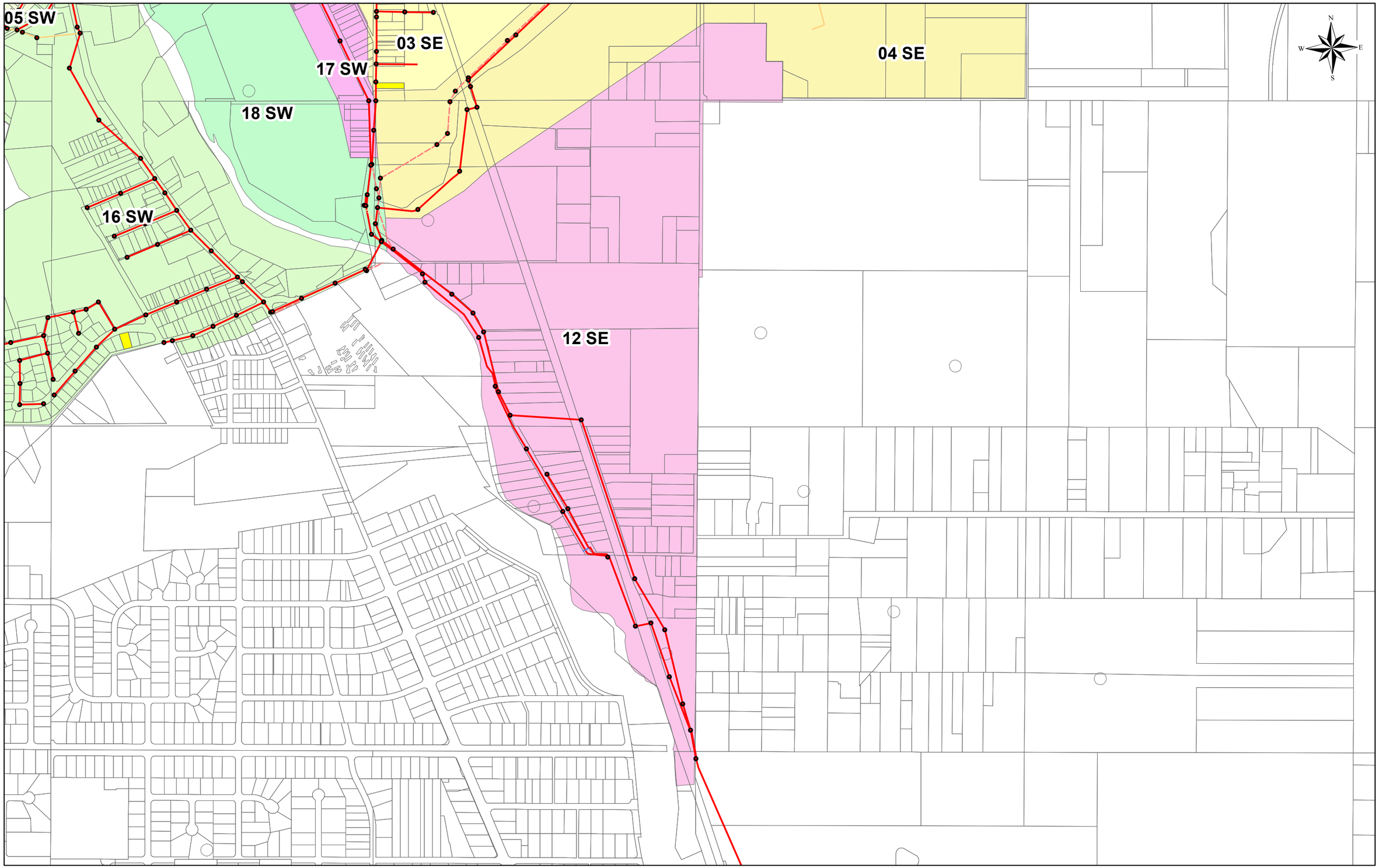

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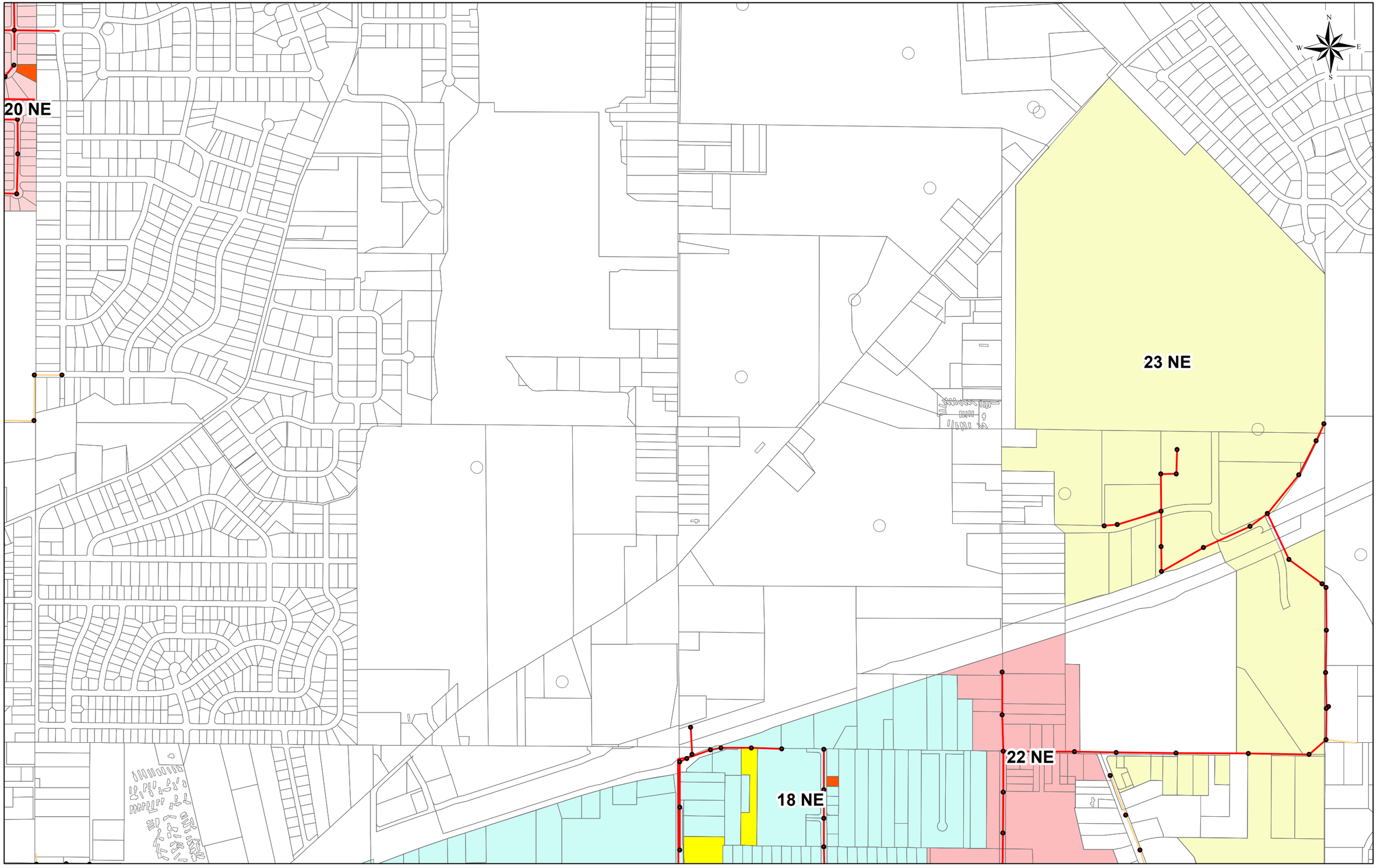

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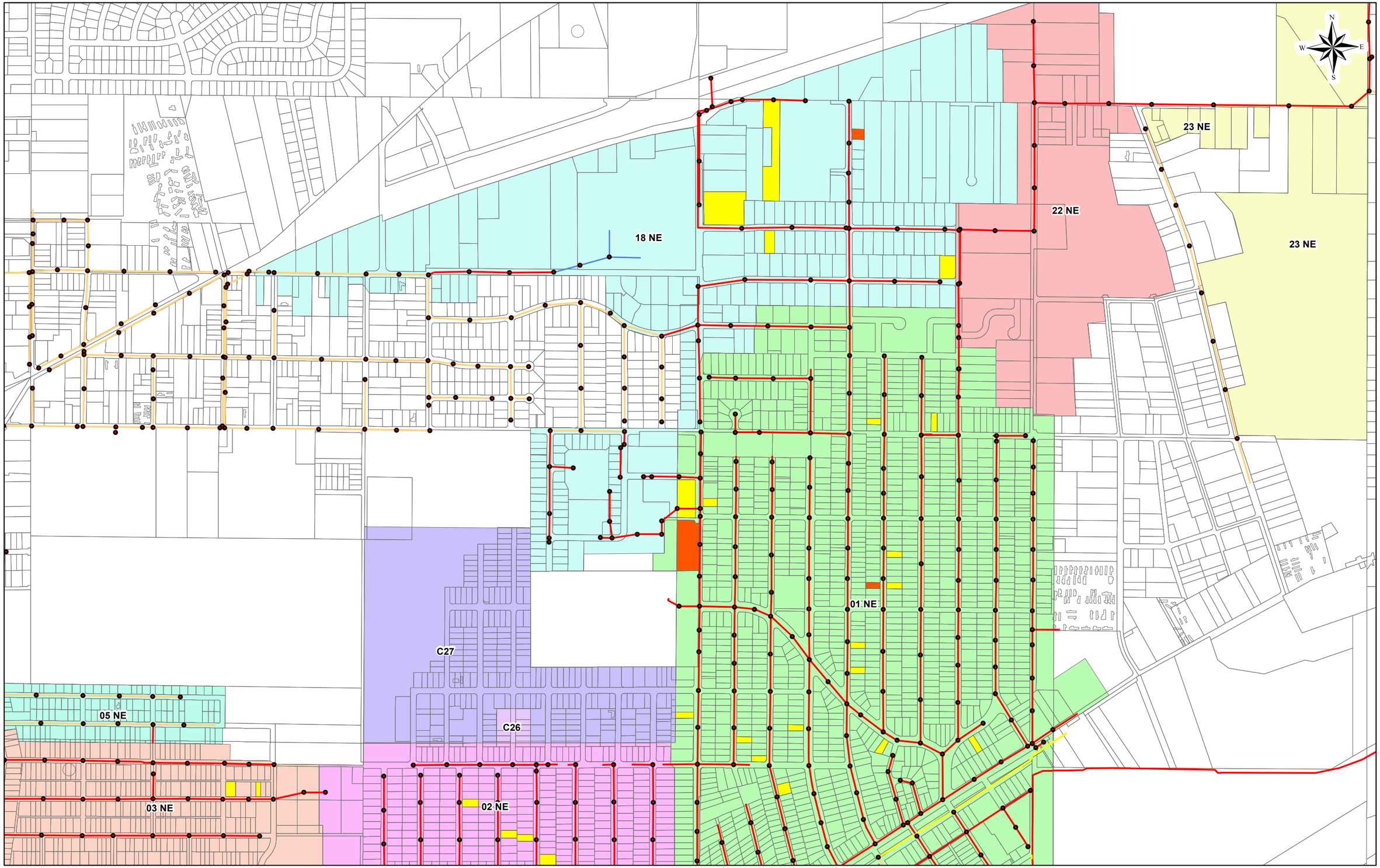

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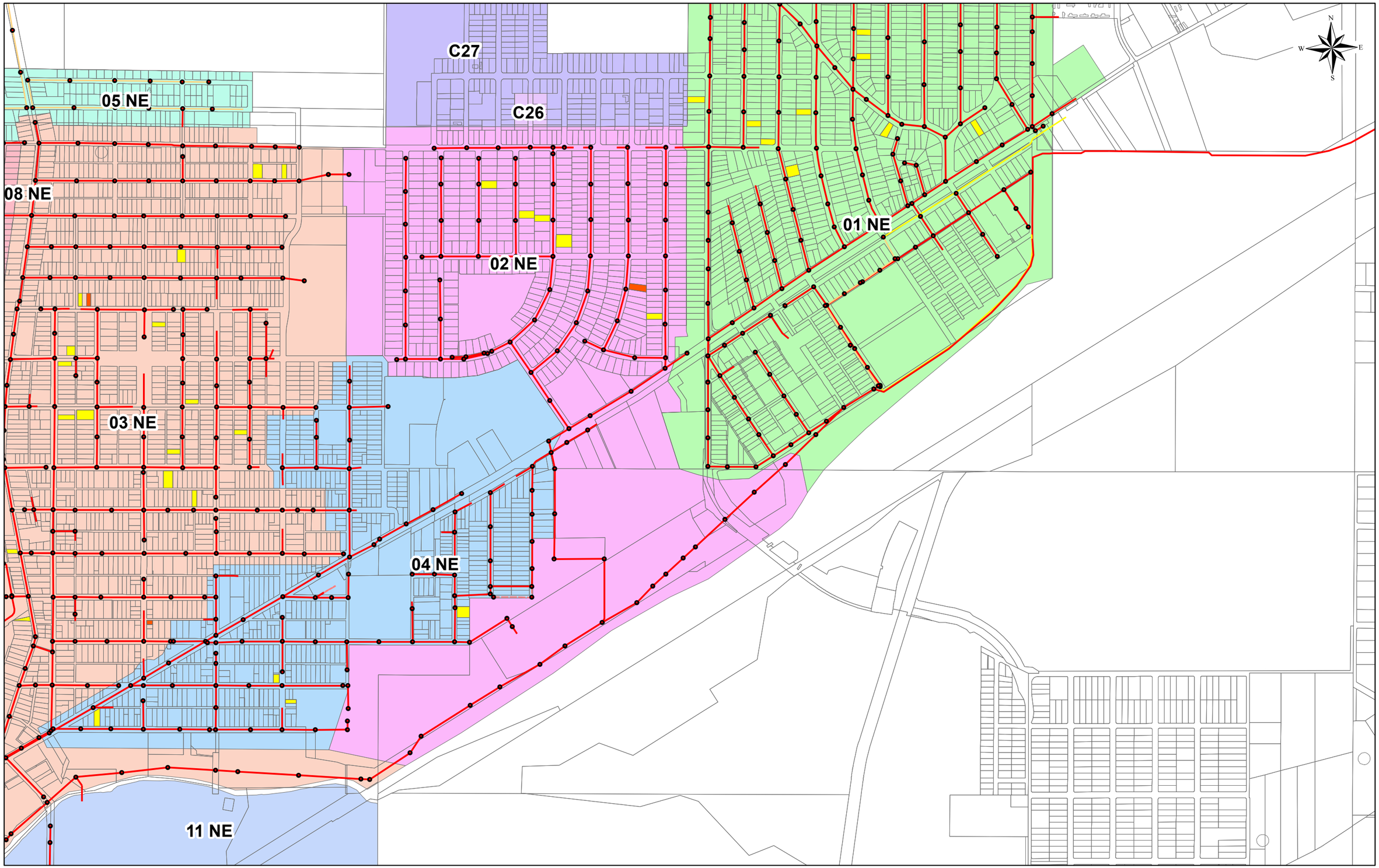
WIB ANALYSIS (PUBLIC AND PRIVATE OCCURRENCES)

0 500 1,000 2,000 Feet



Legend

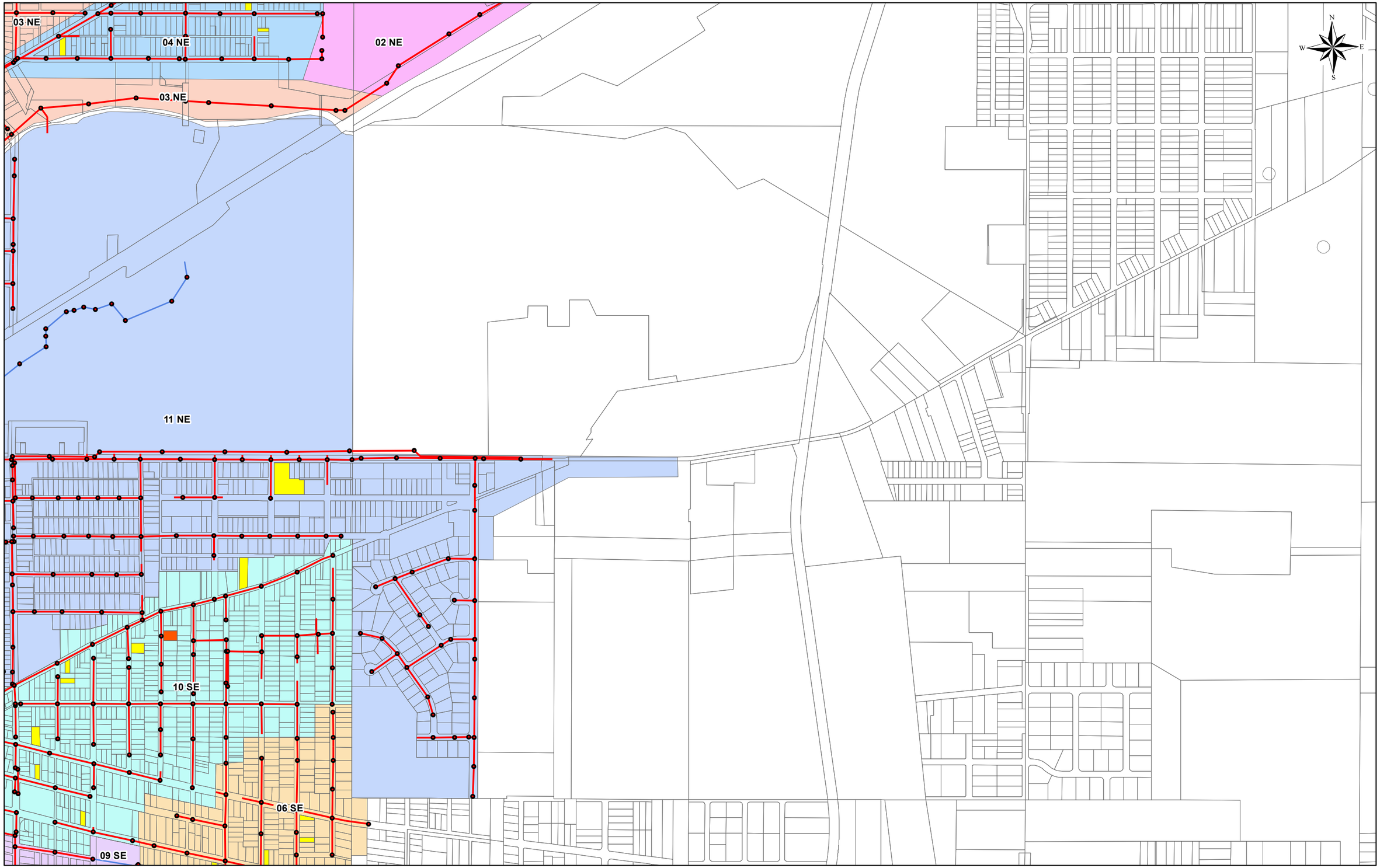
- PUBLIC WIB - 1 OCCURRENCE
- PUBLIC WIB - MULTIPLE OCCURRENCES
- PRIVATE WIB - 1 OCCURRENCE

SEWER MAINS

- CANTON CITY, ACTIVE
- CANTON CITY, ABN
- SCSE, ACTIVE
- SCSE, ABN
- PRIVATE, OTHER

City of Canton, Ohio - Outfall 300
WIB ANALYSIS (PUBLIC AND PRIVATE OCCURRENCES)

0 500 1,000 2,000 Feet



Legend

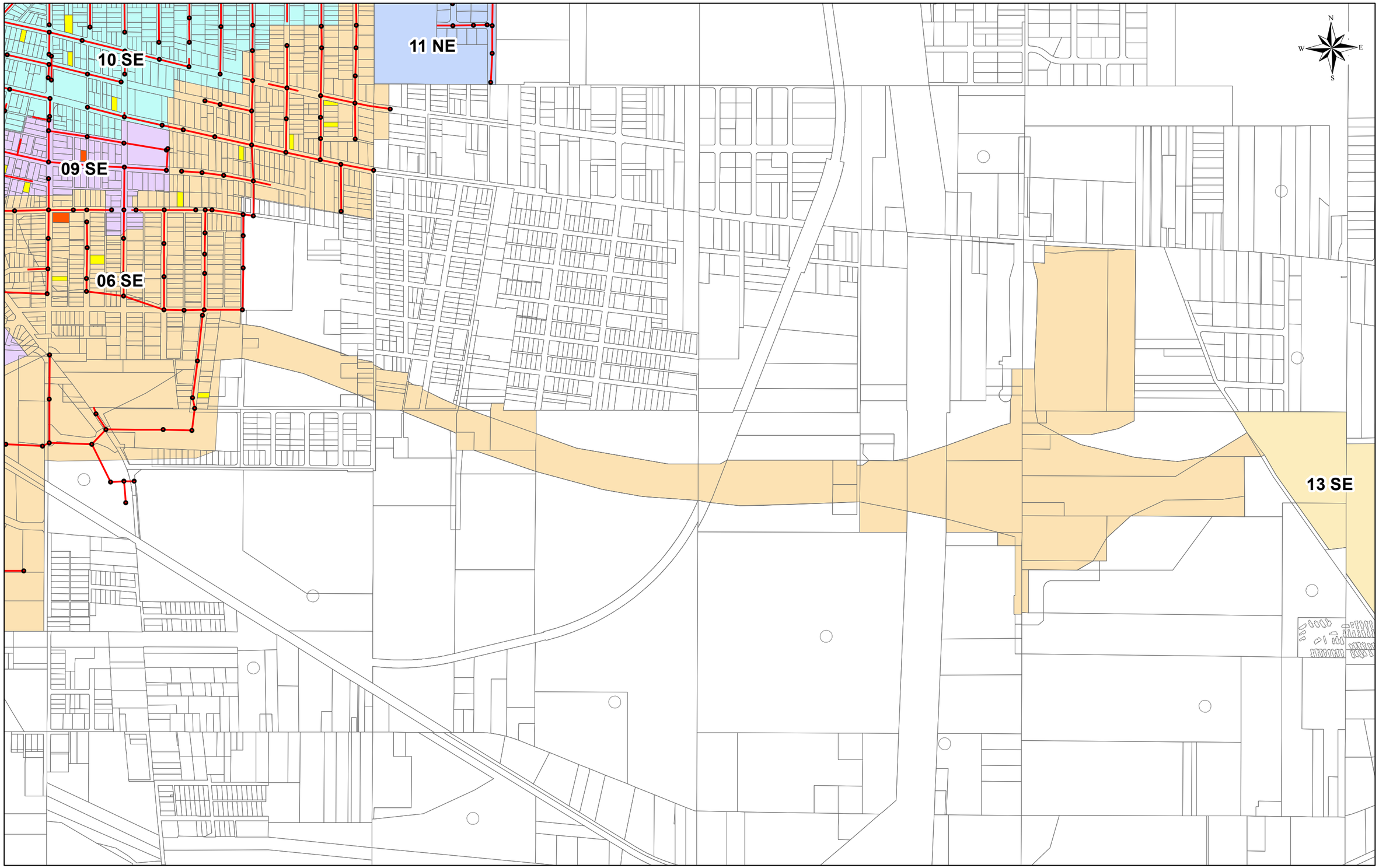
- PUBLIC WIB - 1 OCCURRENCE
- PUBLIC WIB - MULTIPLE OCCURRENCES
- PRIVATE WIB - 1 OCCURRENCE

SEWER MAINS

- CANTON CITY, ACTIVE
- CANTON CITY, ABN
- SCSE, ACTIVE
- SCSE, ABN
- PRIVATE, OTHER

City of Canton, Ohio - Outfall 300
WIB ANALYSIS (PUBLIC AND PRIVATE OCCURRENCES)

0 500 1,000 2,000 Feet

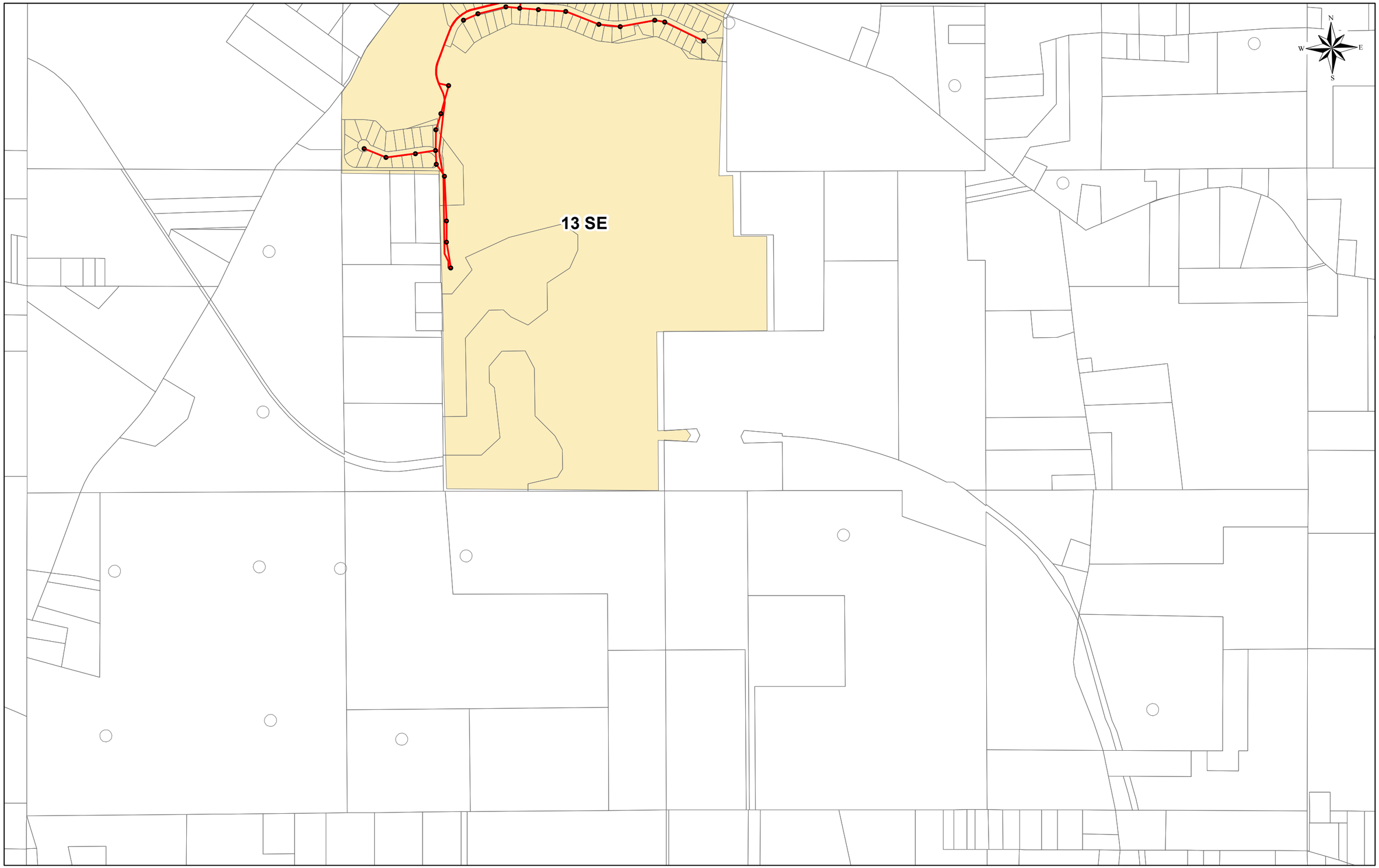


Legend

- PRIVATE WIB - 1 OCCURRENCE
- PUBLIC WIB - 1 OCCURRENCE
- PUBLIC WIB - MULTIPLE OCCURRENCES

City of Canton, Ohio - Outfall 300
WIB ANALYSIS (PUBLIC AND PRIVATE OCCURRENCES)

0 500 1,000 2,000 Feet

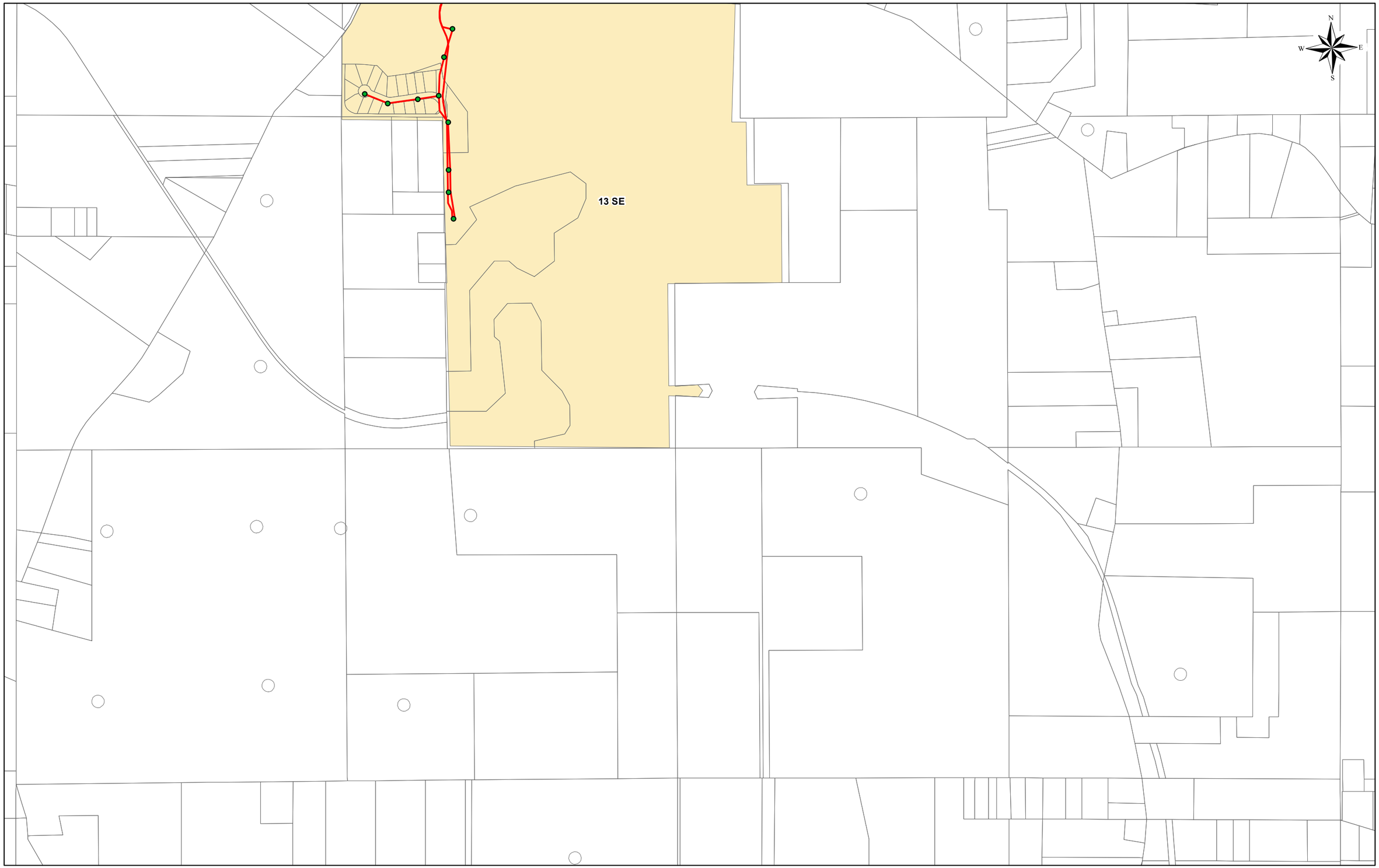


Legend

- PRIVATE WIB - 1 OCCURRENCE
- PUBLIC WIB - 1 OCCURRENCE
- PUBLIC WIB - MULTIPLE OCCURRENCES

City of Canton, Ohio - Outfall 300
WIB ANALYSIS (PUBLIC AND PRIVATE OCCURRENCES)

0 500 1,000 2,000 Feet



Legend

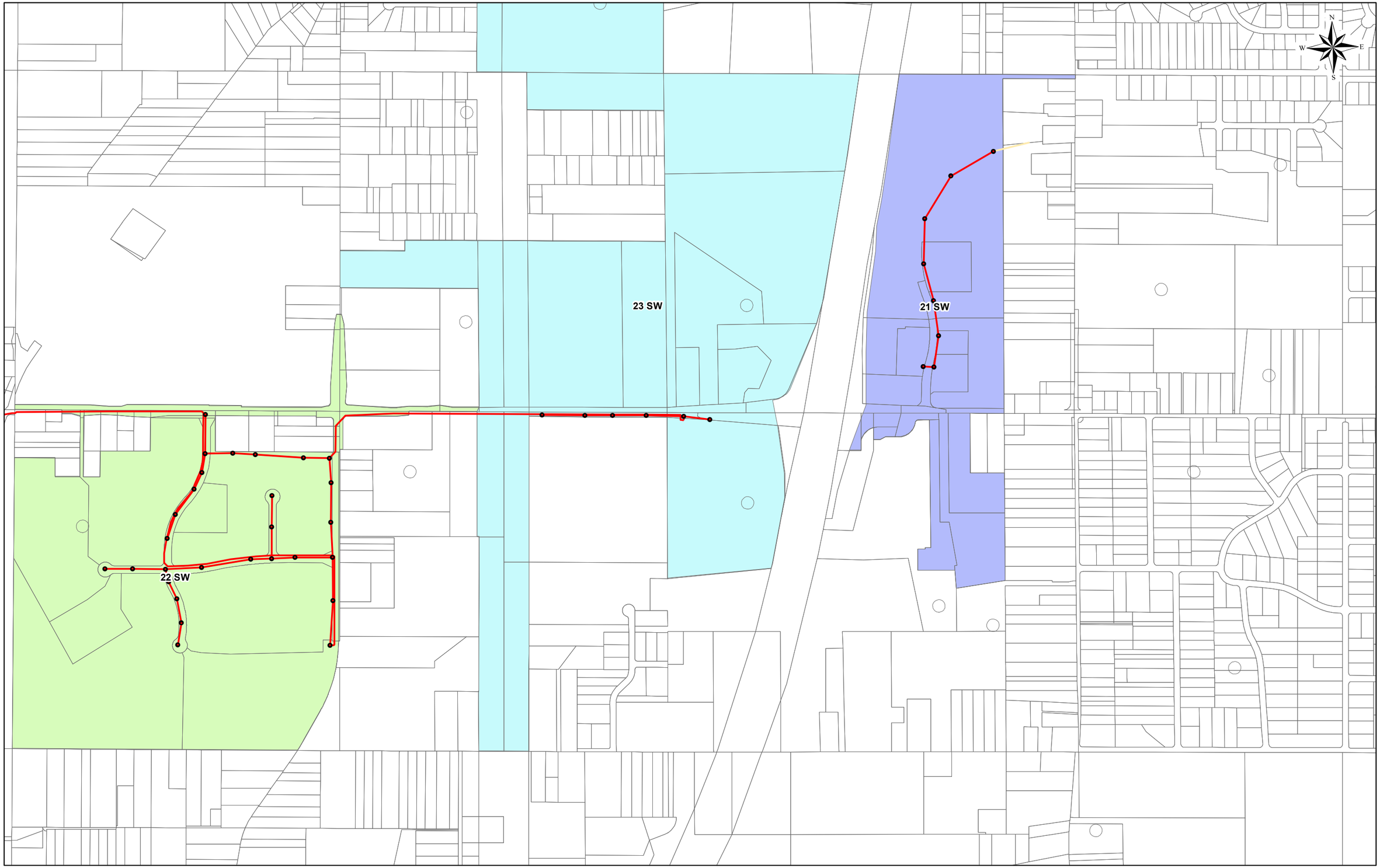
- PUBLIC WIB - 1 OCCURRENCE
- PUBLIC WIB - MULTIPLE OCCURRENCES
- PRIVATE WIB - 1 OCCURRENCE

SEWER MAINS

- CANTON CITY, ACTIVE
- CANTON CITY, ABN
- SCSE, ACTIVE
- SCSE, ABN
- PRIVATE, OTHER

City of Canton, Ohio - Outfall 300
WIB ANALYSIS (PUBLIC AND PRIVATE OCCURRENCES)

0 500 1,000 2,000 Feet



Legend

- PUBLIC WIB - 1 OCCURRENCE
- PUBLIC WIB - MULTIPLE OCCURRENCES
- PRIVATE WIB - 1 OCCURRENCE

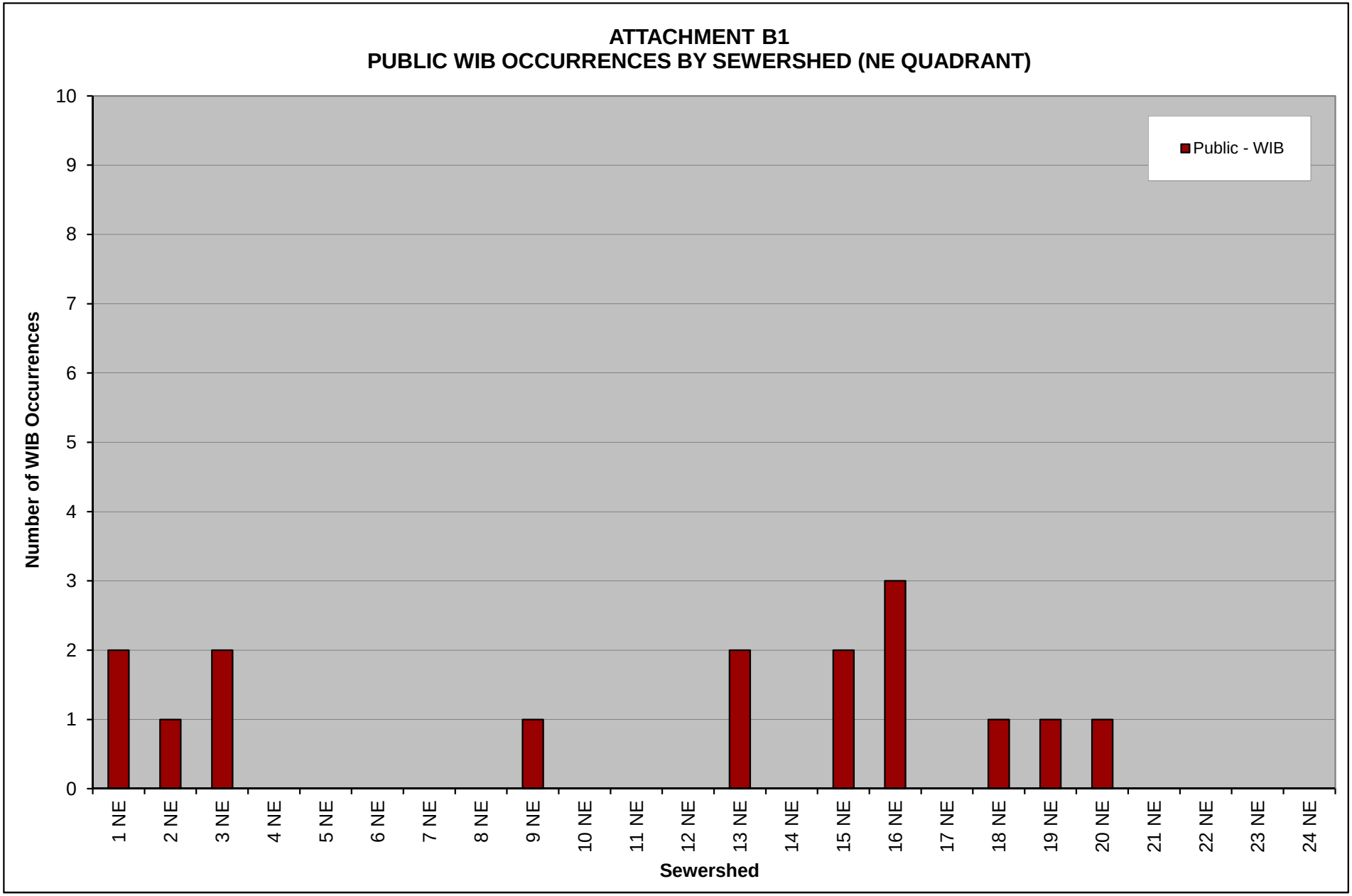
SEWER MAINS

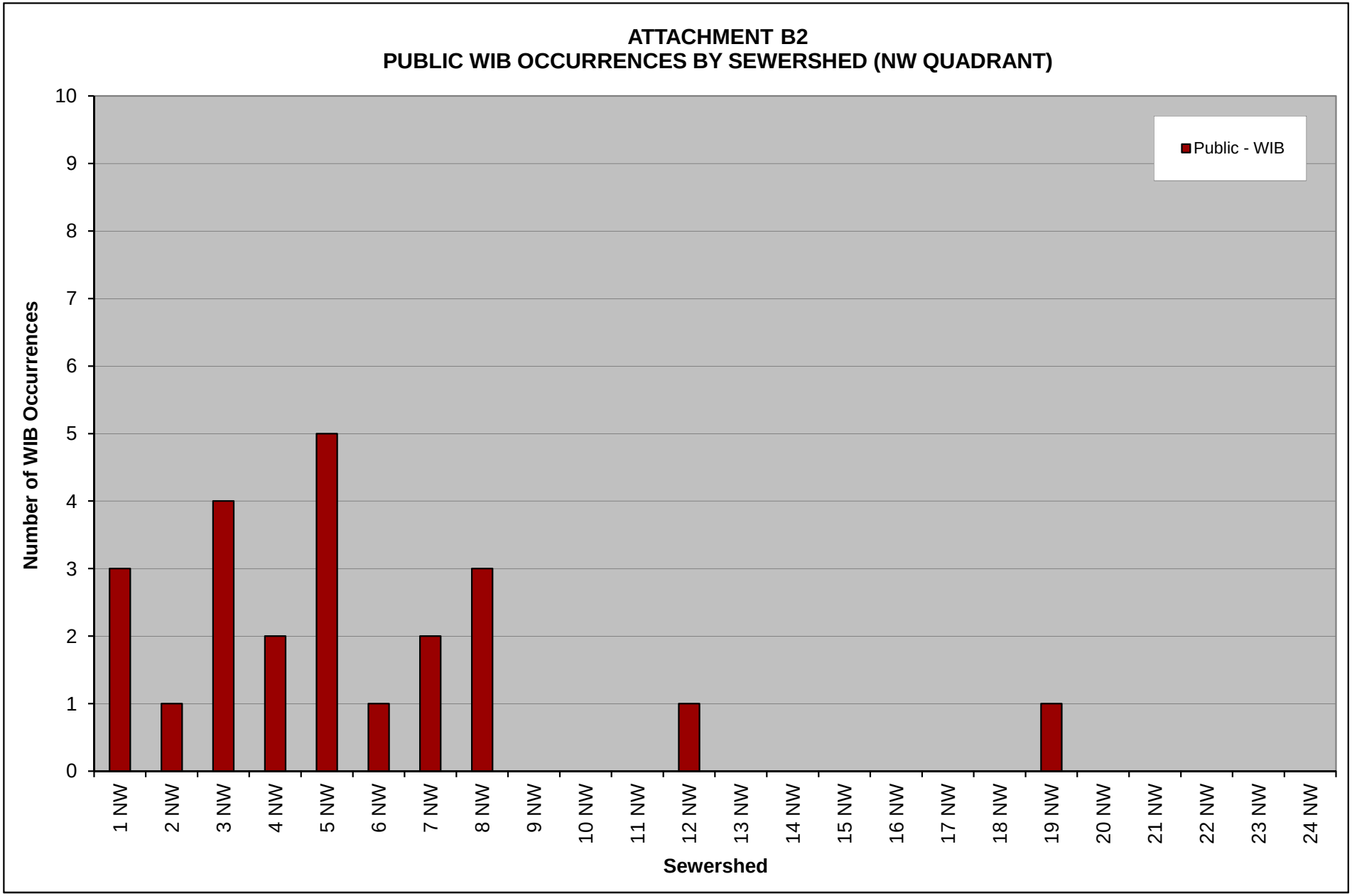
- CANTON CITY, ACTIVE
- CANTON CITY, ABN
- SCSE, ACTIVE
- SCSE, ABN
- PRIVATE, OTHER

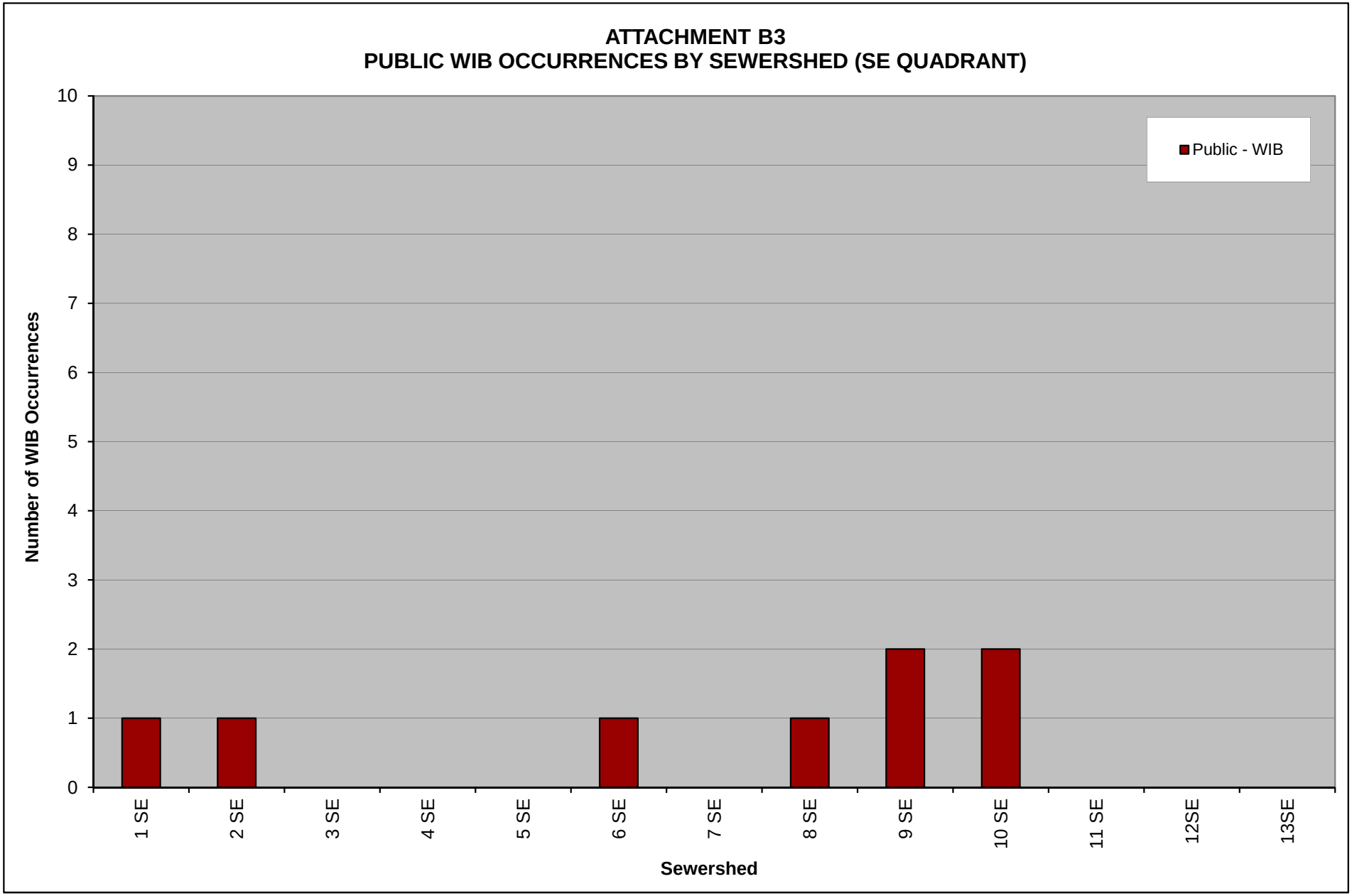
City of Canton, Ohio - Outfall 300
WIB ANALYSIS (PUBLIC AND PRIVATE OCCURRENCES)

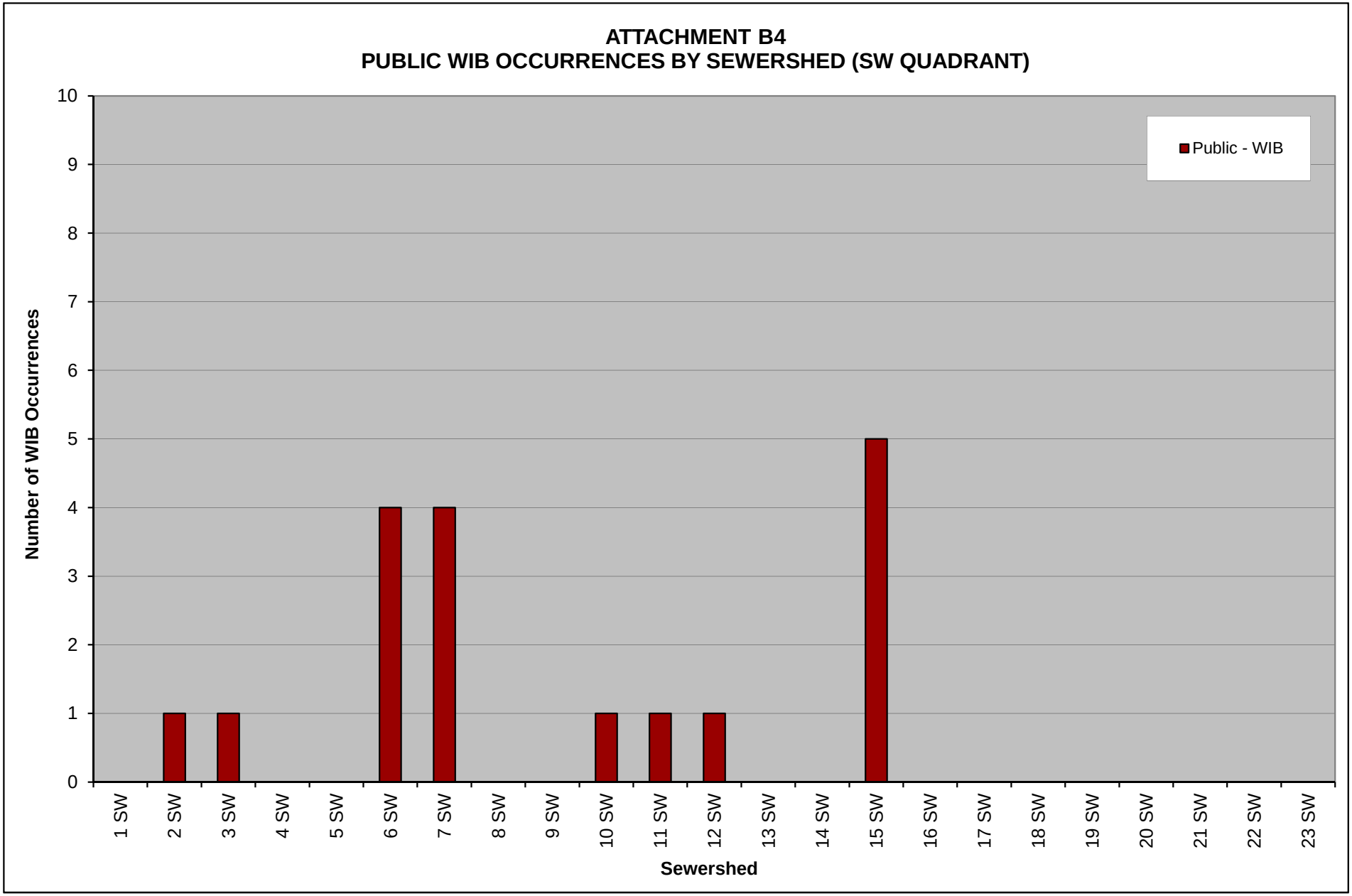
0 500 1,000 2,000 Feet

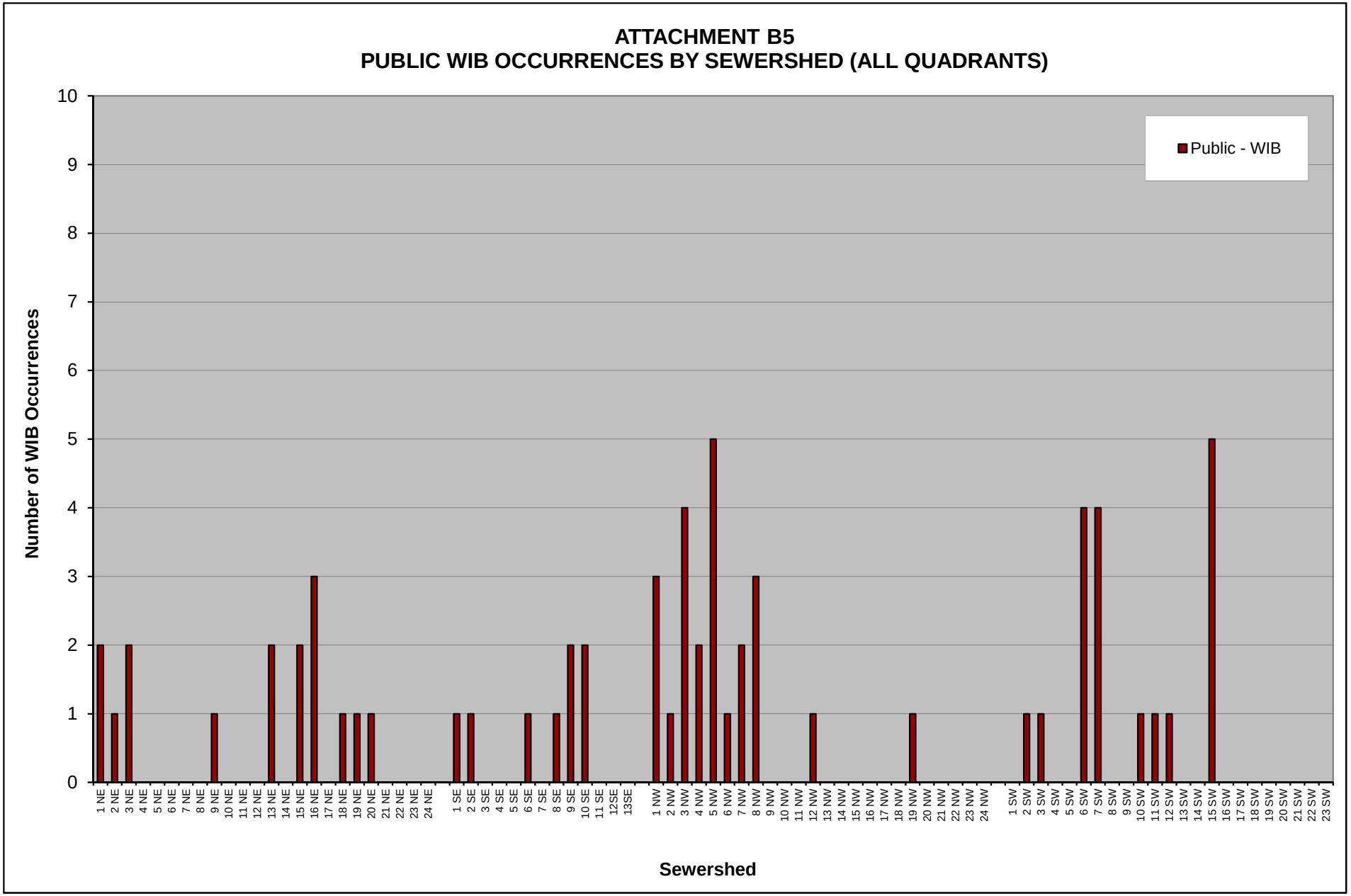
APPENDIX B


ATTACHMENT B1
PUBLIC WIB OCCURRENCES BY SEWERSHED (NE QUADRANT)
Public - WIB
Number of WIB Occurrences
0
1
2
3
4
5
6
7
8
9
10
1 NE
2 NE
3 NE
4 NE
5 NE
6 NE
7 NE
8 NE
9 NE
10 NE
11 NE
12 NE
13 NE
14 NE
15 NE
16 NE
17 NE
18 NE
19 NE
20 NE
21 NE
22 NE
23 NE
24 NE
Sewershed


ATTACHMENT B2
PUBLIC WIB OCCURRENCES BY SEWERSHED (NW QUADRANT)
Public - WIB
Number of WIB Occurrences
0
1
2
3
4
5
6
7
8
9
10
1 NW
2 NW
3 NW
4 NW
5 NW
6 NW
7 NW
8 NW
9 NW
10 NW
11 NW
12 NW
13 NW
14 NW
15 NW
16 NW
17 NW
18 NW
19 NW
20 NW
21 NW
22 NW
23 NW
24 NW
Sewershed


ATTACHMENT B3
PUBLIC WIB OCCURRENCES BY SEWERSHED (SE QUADRANT)
Public - WIB
Number of WIB Occurrences
0
1
2
3
4
5
6
7
8
9
10
1 SE
2 SE
3 SE
4 SE
5 SE
6 SE
7 SE
8 SE
9 SE
10 SE
11 SE
12SE
13SE
Sewershed


ATTACHMENT B4
PUBLIC WIB OCCURRENCES BY SEWERSHED (SW QUADRANT)
Public - WIB
Number of WIB Occurrences
0
1
2
3
4
5
6
7
8
9
10
1 SW
2 SW
3 SW
4 SW
5 SW
6 SW
7 SW
8 SW
9 SW
10 SW
11 SW
12 SW
13 SW
14 SW
15 SW
16 SW
17 SW
18 SW
19 SW
20 SW
21 SW
22 SW
23 SW
Sewershed


ATTACHMENT B5
PUBLIC WIB OCCURRENCES BY SEWERSHED (ALL QUADRANTS)
Public - WIB
Number of WIB Occurrences
Sewershed
0
1
2
3
4
5
6
7
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9
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1 NE
2 NE
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4 NE
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24 NE
1 SE
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4 SE
5 SE
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7 SE
8 SE
9 SE
10 SE
11 SE
12SE
13SE
1 NW
2 NW
3 NW
4 NW
5 NW
6 NW
7 NW
8 NW
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11 NW
12 NW
13 NW
14 NW
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24 NW
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23 SW