

Overview:

# Metropolitan Land Planning Act and Comprehensive Plans

March 20, 2019

Committee of the Whole



# Today's Discussion

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Historical Background & Regional Planning

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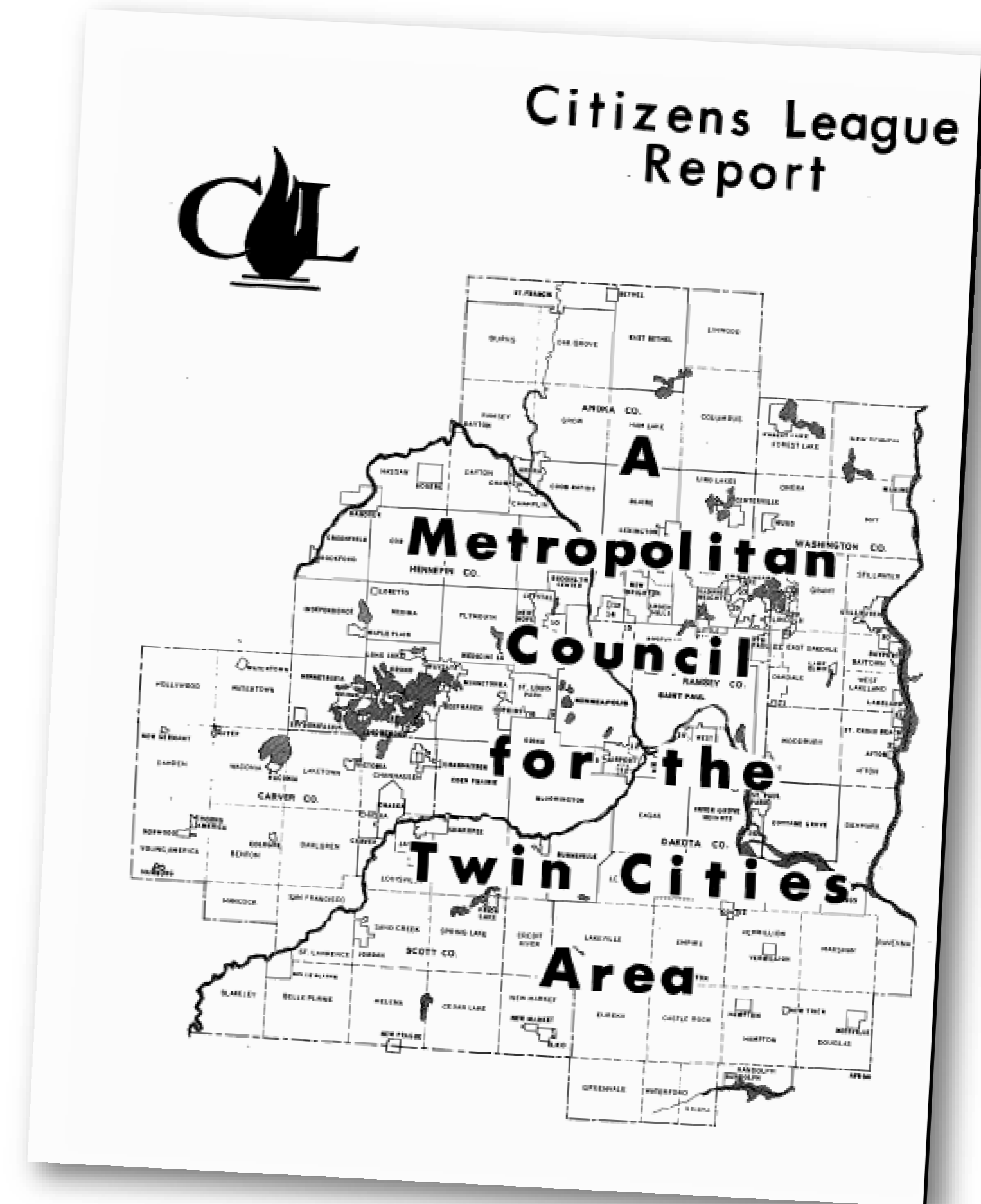
Process and Timelines

# Historical Background & Regional Planning



# Regional Planning

- Metropolitan Council formed in 1967
- Regional planning
  - Council must develop a comprehensive development guide
    - Compilation of policy statements, goals, standards, and programs
    - Orderly and economical development of the metropolitan area
  - Metropolitan agency plans to conform to the regional plan



# Why regional planning?

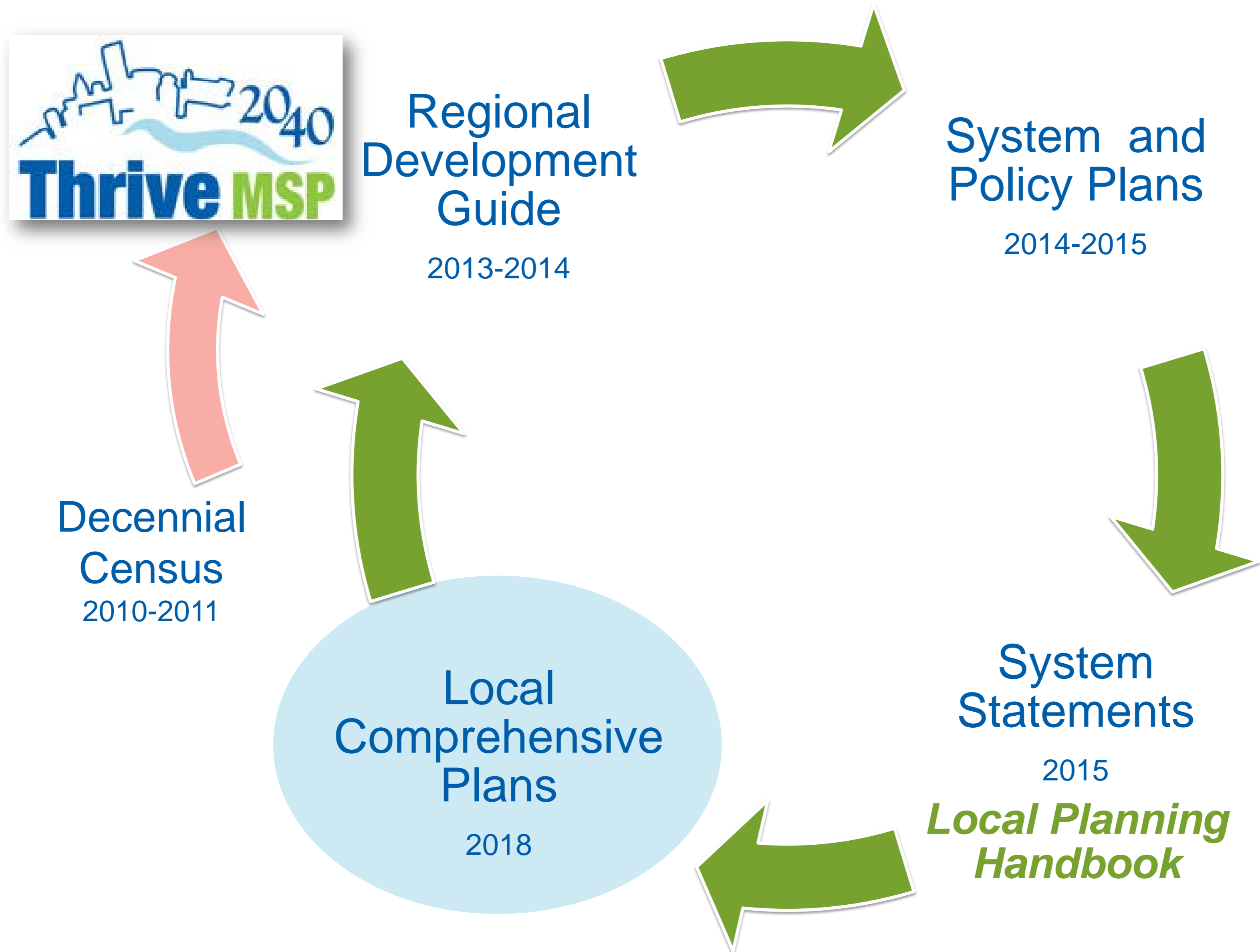


# Metropolitan Land Planning Act

- Metropolitan Land Planning Act (MLPA) - 1976
  - Statutes 473.851 to 473.871
    - Review authority
    - Technical assistance
    - Planning grants
  - Local comprehensive planning
    - Content requirements 473.859
    - Amendments
    - Relationship to zoning



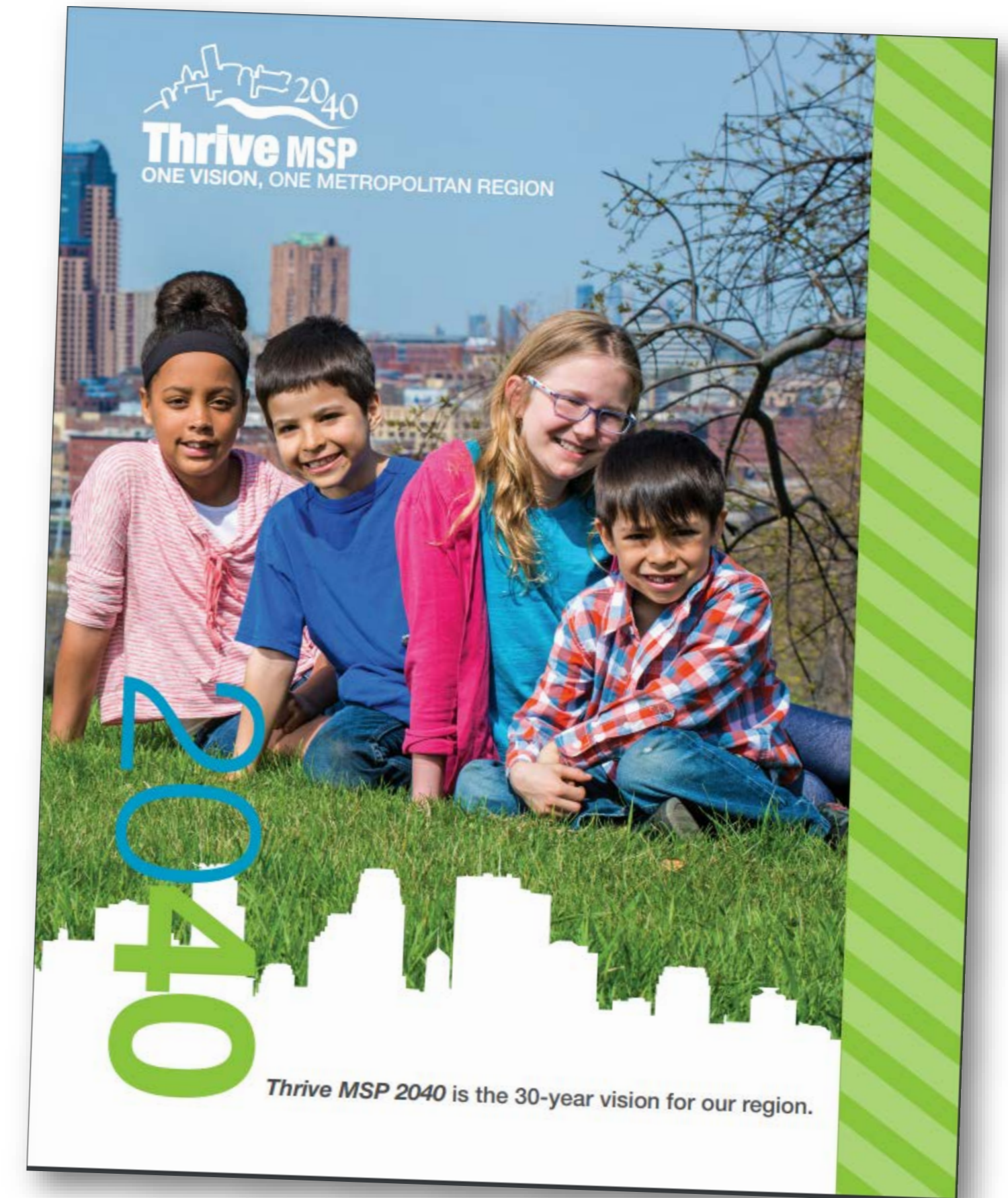
# 10-year Regional Planning Cycle



# What is *Thrive MSP 2040*?

“The Metropolitan Council shall prepare and adopt, after appropriate study and such public hearings as may be necessary, a **comprehensive development guide** for the metropolitan area...”

(Minn. Stat. 473.145)





# Systems and Policy Plans

- Plan for each Regional System
  - Transportation
  - Water Resources Management
  - Parks
- System Planning
  - Specific policies, goals, strategies
  - Details on system improvements, extension, limitations
- Policy Plan for Housing
  - First plan since 1980s to specifically address housing in the region



# Looking ahead

Continued population growth

Constrained fiscal resources

Demographic shifts, new demands

Environmental challenges

Transportation funding

Planning for new modes of transit and transit-oriented development

Need for regional economic cooperation



# Thrive Outcomes and Principles

**Stewardship** of our natural and financial resources

**Prosperity** of our businesses and households

**Equity** of our opportunities and challenges

**Livability** of our communities

**Sustainability** of our region into the future

**Integration** of efforts within the Council

**Collaboration** with partners throughout the region

**Accountability** to measure our progress



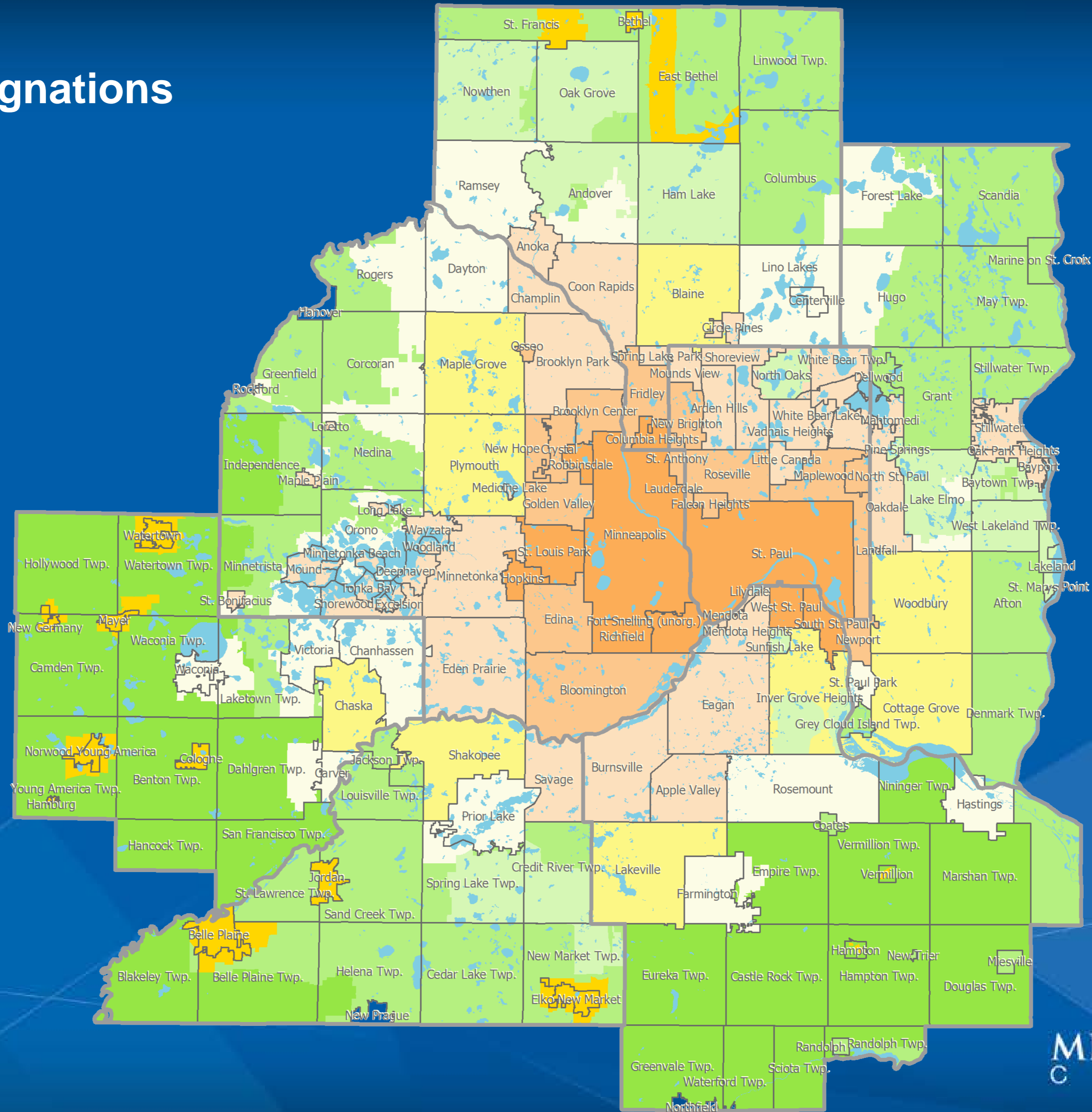
# 2040 Thrive Community Designations

## Metropolitan Urban Service Area

- Urban Center
- Urban
- Suburban
- Suburban Edge
- Emerging Suburban Edge

### Rural Service Area

- Rural Center
- Diversified Rural
- Rural Residential
- Agricultural



METROPOLITAN  
COUNCIL

# Land Use Direction

Seven policies together to achieve Thrive Outcomes

Orderly & Efficient  
Land Use

Natural Resources

Water

Housing

Transportation

Economic Comp.

Resilience

## Each Land Use Policy

Broad direction, region wide application

Council Roles

Community Roles

### Community Designations

More specific, distinguishes between community types

Council Roles

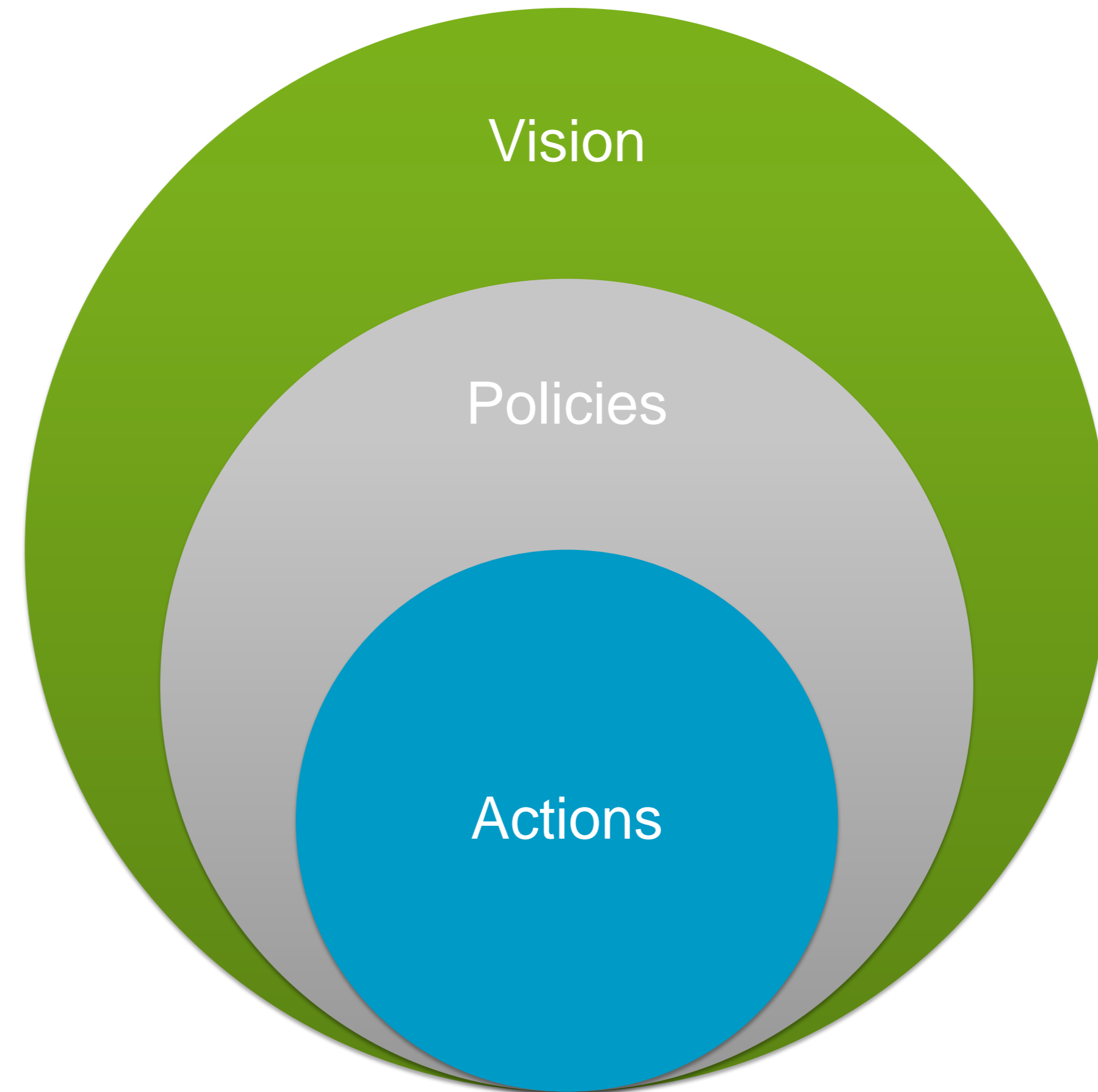
Community Roles

# Local Comprehensive Plans

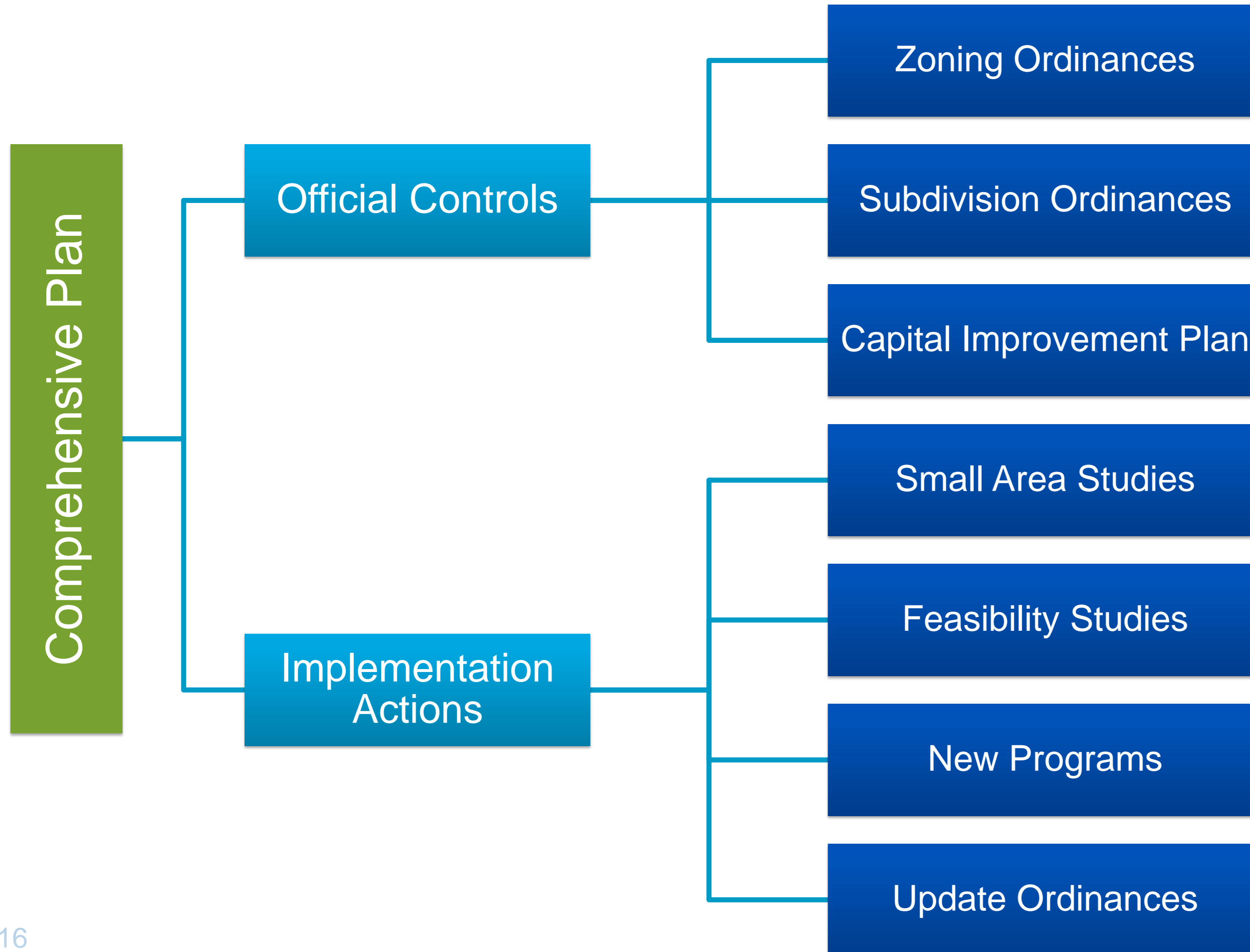


# What's the purpose of a local plan?

- Community's vision
- Guides growth and development in community
- IDs key issues in community & how the community intends to deal with them
- Provides:
  - Basis for community's vision and principles
  - Reasoning for public facilities plans/budgets
  - Guidance on making decisions



# What is the role of the plan?



- Legal document
- Outlines a community's work plan
- Provides direction for ordinances and capital investments



# Required Plan Components



## Foundation

- Policies & Objectives
- Planning area designation
- Forecasts for population, households, & employment

## Land Use

- Existing land & water
- Future land use & staging
- Housing plan
- Special Resources

## Public Facilities

- Transportation
- Water Resources
- Regional & Local Parks and Trails

## Implementation

- Official controls
  - Zoning
  - Subdivision
- Capital improvement program
- Housing implementation program

# Review Role of the Metropolitan Council



# Review authority is based in statute

- Minn. Stats. 473.175 & 473.513 outlines the Council's role in plan review
- Council **authorizes plans** to be placed into effect
  - No ability to “deny” plans explicit stated in statute
  - Council approves Comprehensive Sewer Plans
- Different review standards based on the component we are reviewing
  - Conformance
  - Consistency
  - Compatibility



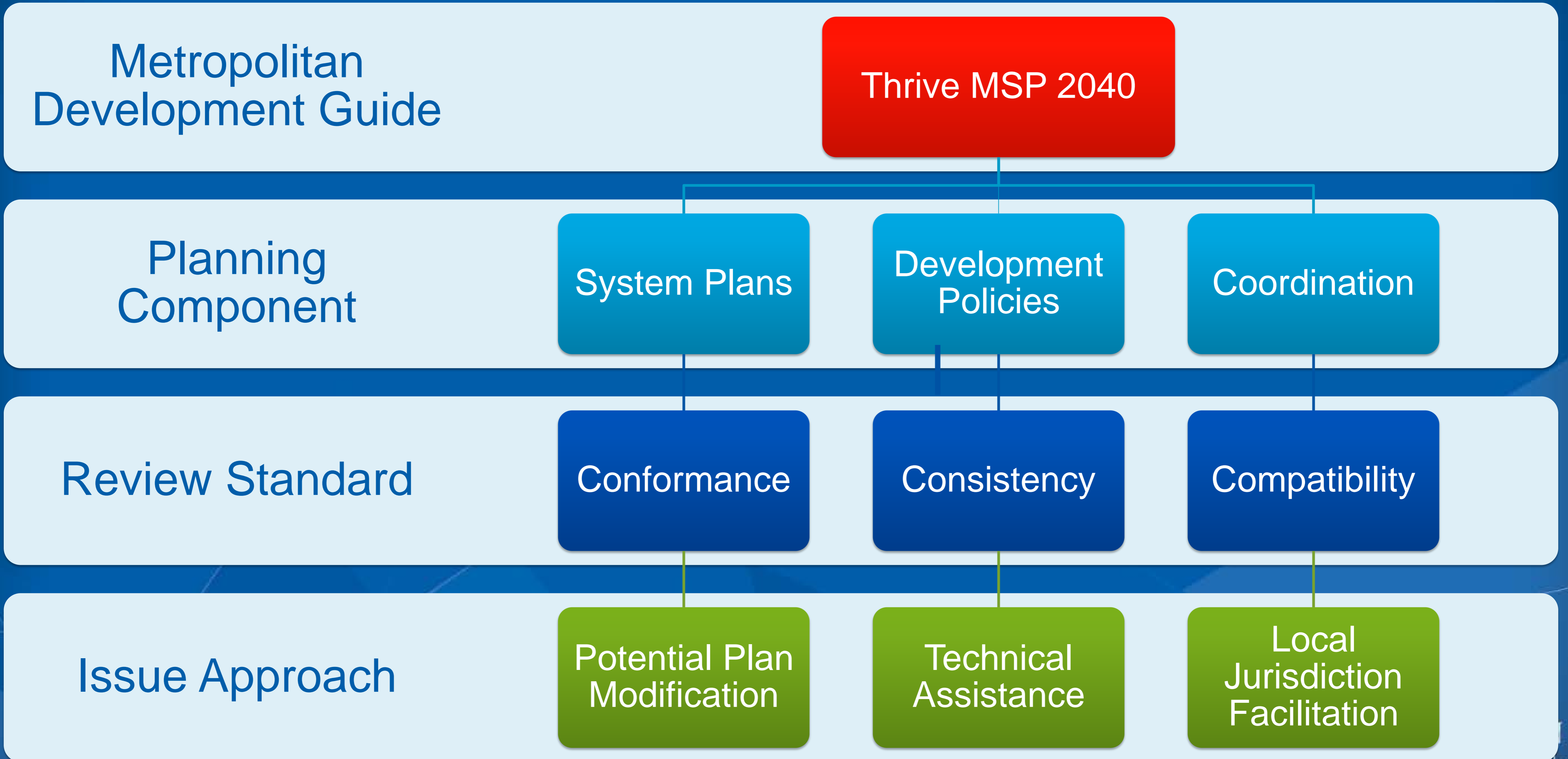
# The Council is the Last Reviewer

- Adjacent / affected jurisdictions
  - Minn. Stat. 473.858, subd. 2 requires local governments to share their plans with adjacent and affected jurisdictions
  - Allow at least 6 months for review and comment
- Other Agencies have **approval** authority over portions of local plans
  - Minnesota Department of Natural Resources
    - Mississippi River Corridor Critical Area Plans
    - Water Supply Plans
  - Watershed Districts
    - Local surface water management plans

# Review Standards



# How does the Council review comprehensive plans?



## Review Standard

### Conformance

- Minn. Stat. 473.175, subd. 1:  
“The council shall review the comprehensive plans of local governmental units...to determine their...conformity with metropolitan system plans.”
- Each System Plan identifies what constitutes a conformance issue in a local comprehensive plan

## Review Standard

Conformance

- Review standard: “more likely than not to have a substantial impact on or contain a substantial departure from metropolitan system plans”
- Steps:
  - Immediately work toward issue resolution, before official plan submittal
  - Last step: plan modification procedures



## Review Standard

### Consistency

- Minn. Stat. 473.175, subd. 1:  
“The council shall review and comment on the apparent consistency of the comprehensive plans with adopted plans of the council.”
- Policies in Thrive and each of the Policy Plans
  - Specific policies as they apply to local comprehensive plans

# Review Standard

## Consistency

- Steps:
  - Technical assistance to resolve inconsistency before plan submittal
  - Advisory comments
    - Recommending changes
    - Offering staff assistance
  - Housing cases: potentially affects eligibility for LCA programs

# Review Standard

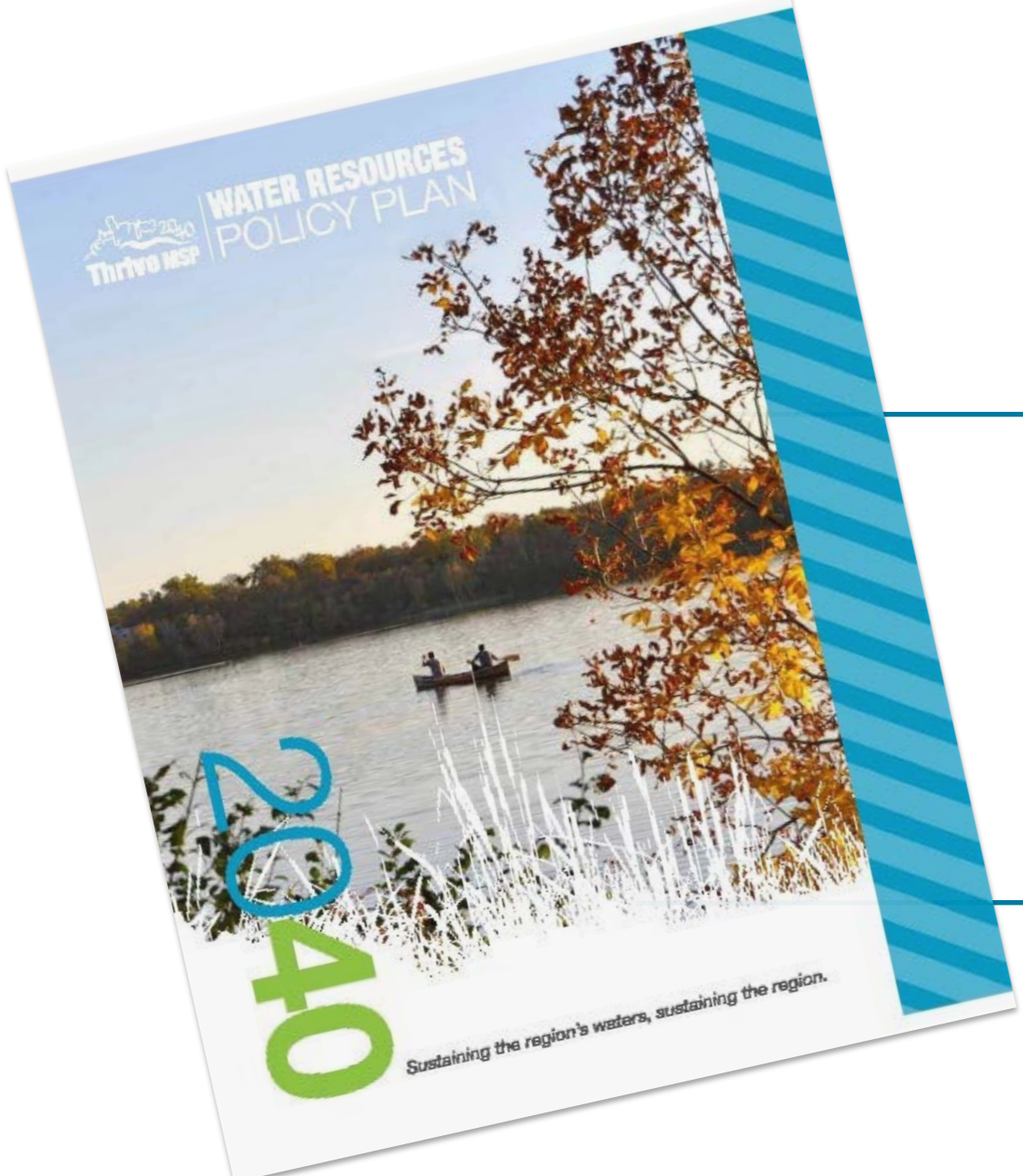
## Compatibility

- Minn. Stat. 473.175, subd. 1:  
“The council shall review the comprehensive plans of local governmental units...to determine their compatibility with each other...”
- Ensure coordination among local jurisdictions
- Incompatibilities among plans are unusual
- Steps:
  - Identify the incompatibilities, offer suggested solutions
  - Support to facilitate conversations among local jurisdictions

# Comprehensive Sewer Plans



# 2040 Water Resources Policy Plan



Wastewater



Surface Water



Water Supply

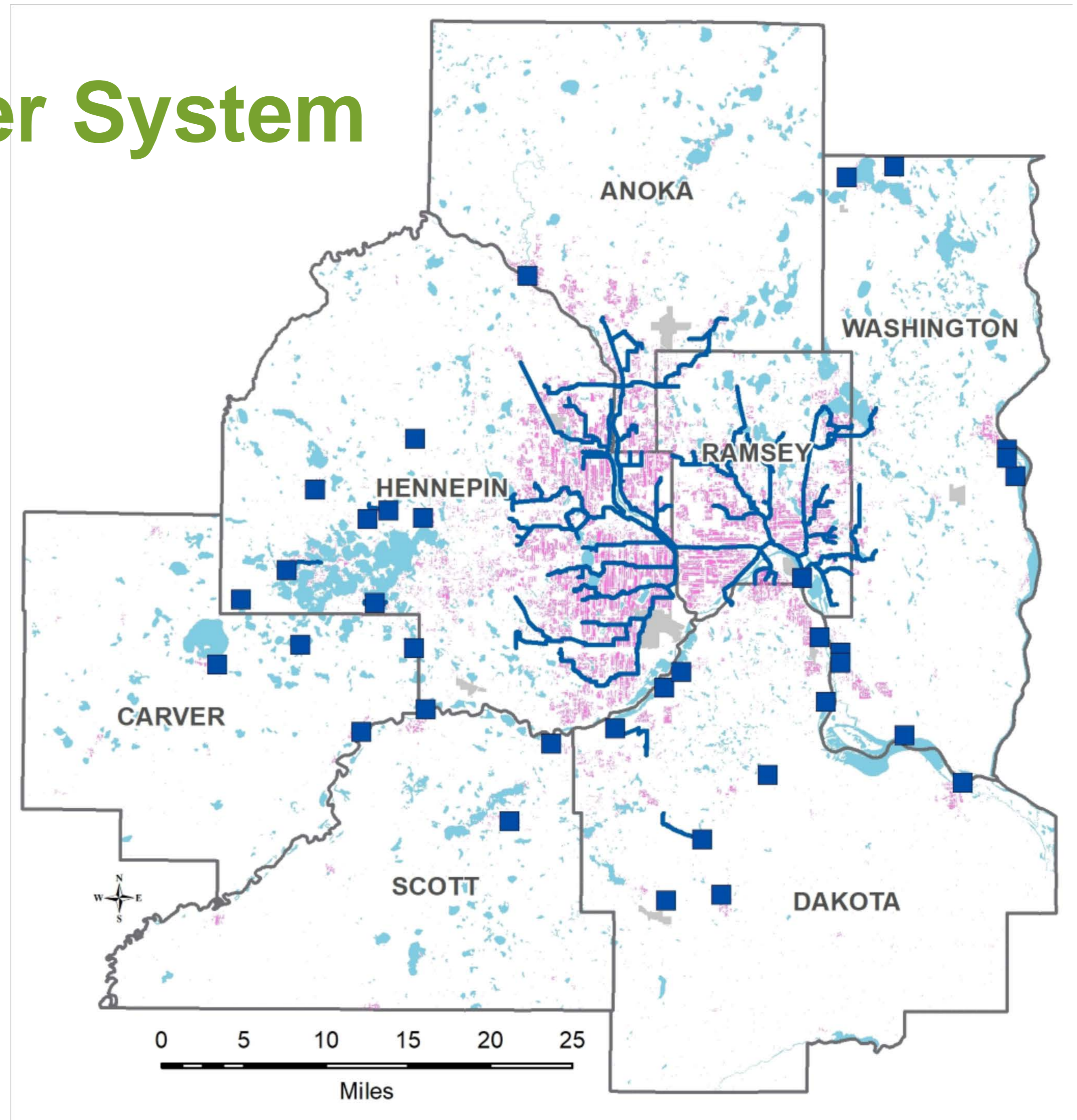


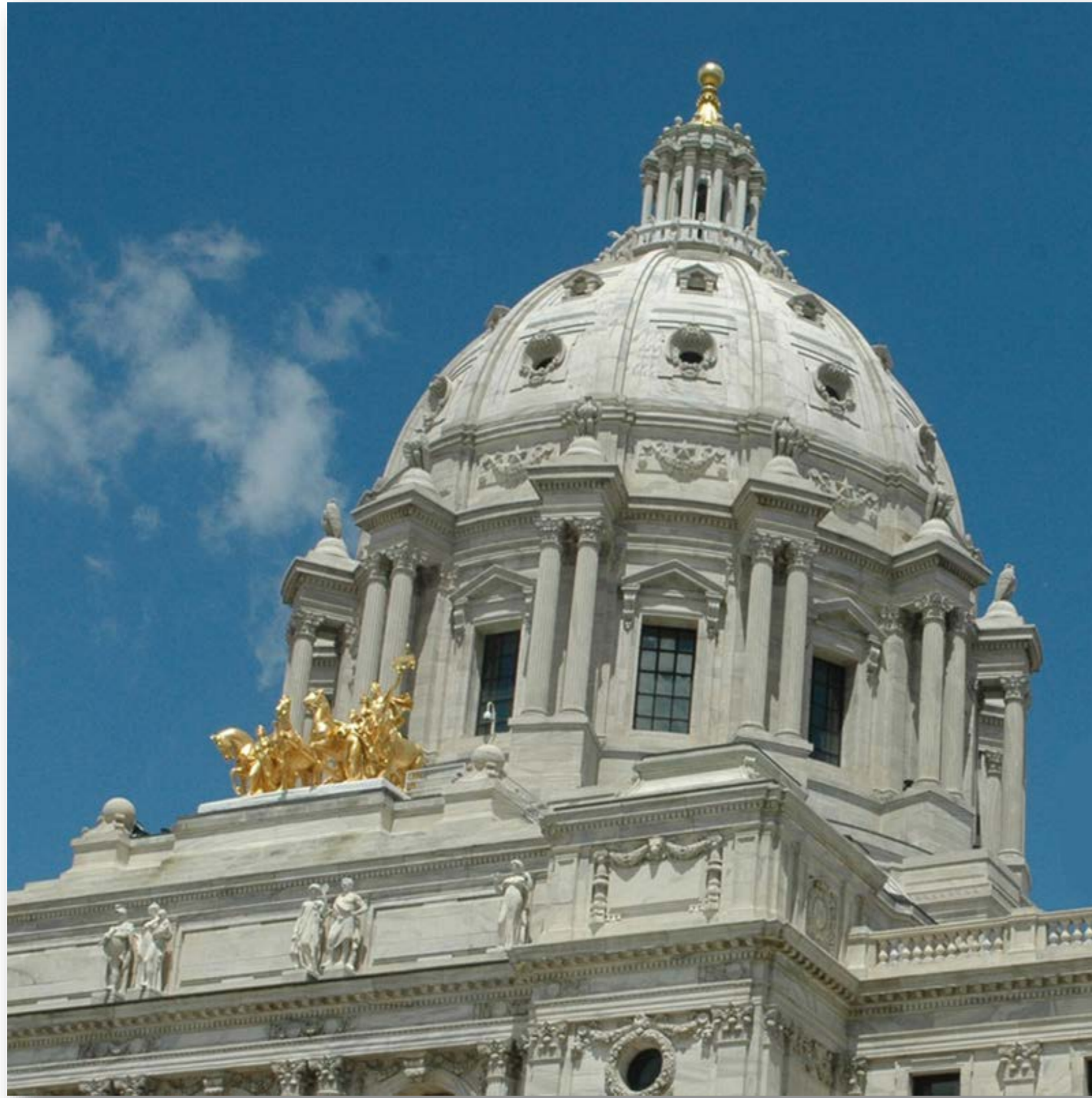
# Metropolitan Sewer Board becomes a Regional Utility: 1969; 66<sup>th</sup> legislature



# 1969 Local Wastewater System

- 35 local wastewater treatment plants





- MN Stat. 473.146
  - Policy Plans for Metropolitan Agencies
- MN Stat. 473.513
  - Municipal Plans and Programs
- MN Stat. 473.858
  - Comprehensive Plans; Local Governmental Units



# MCES Wastewater System



Protects public health and safety



Protects the environment



Fosters the economic growth of the region



## WHO WE SERVE

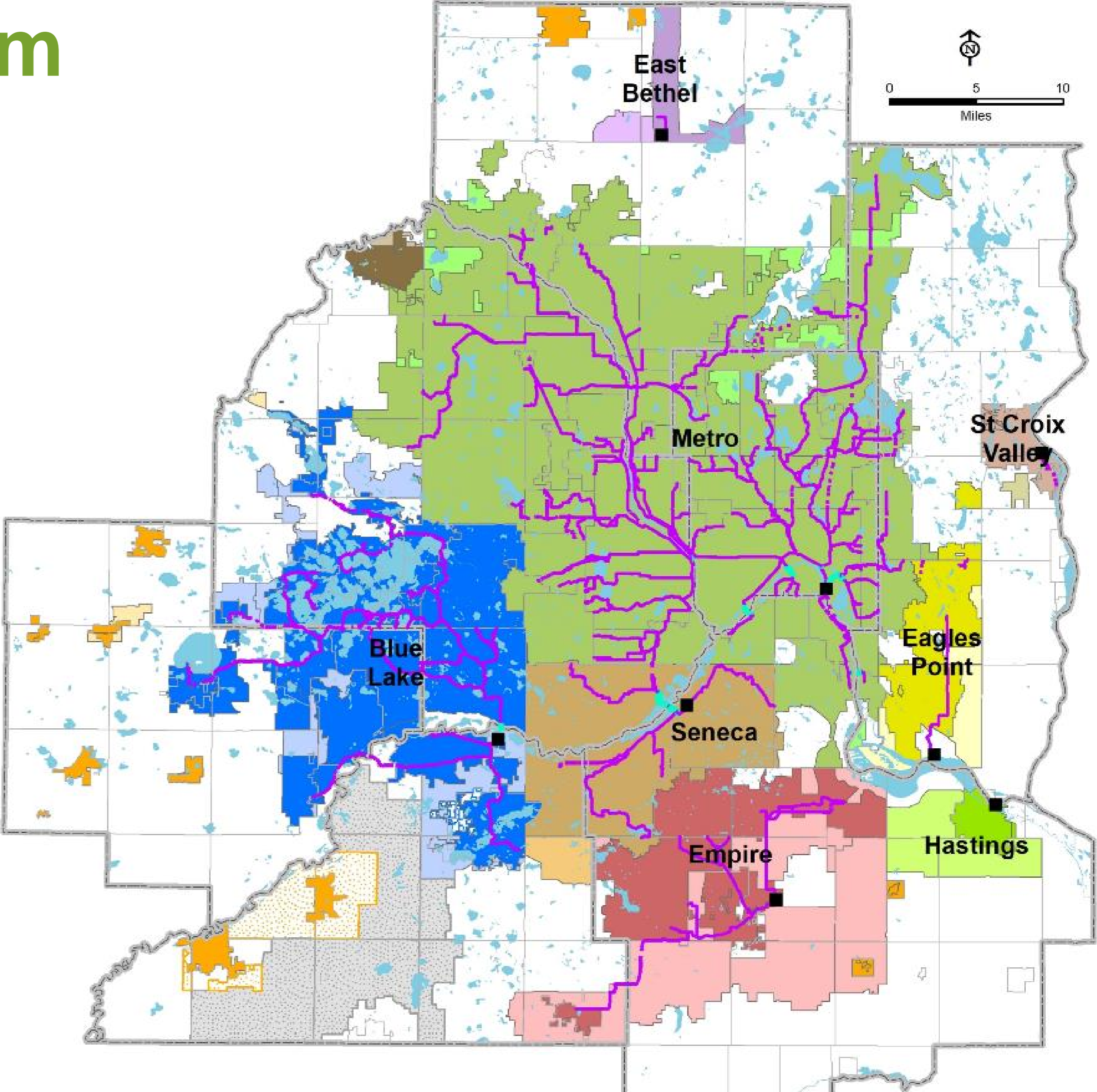
7-county Twin Cities Metro Area  
109 communities  
2,700,000+ people

## OUR FACILITIES

8 wastewater treatment plants  
610 miles of interceptors  
250 million gallons per day (avg)

## OUR ORGANIZATION

600+ employees  
\$7 billion in valued assets  
\$150 million / yr capital program

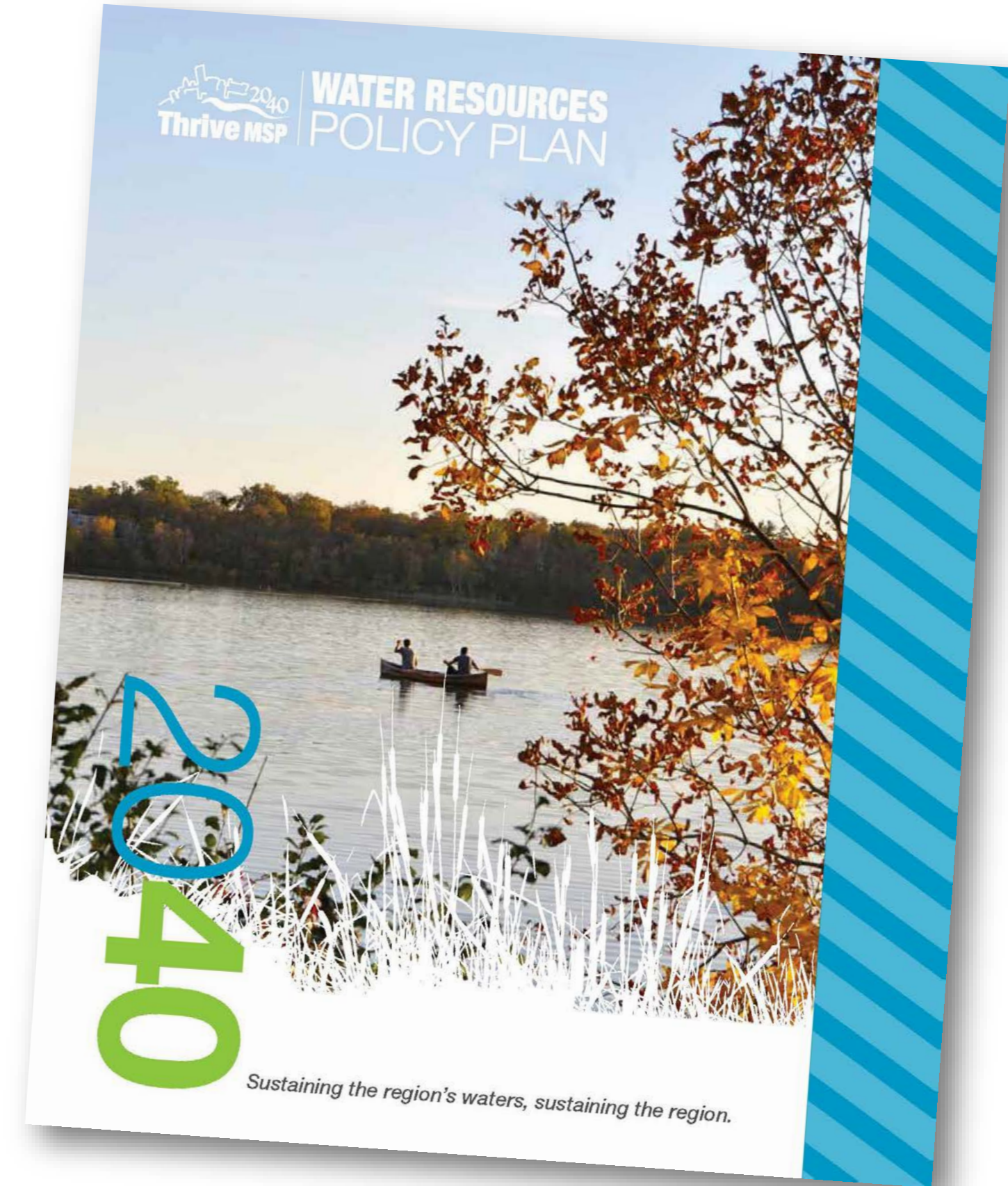


**MCES Serves ~50% of the State's Population**

# Regional Service Policies

## Water Resource Policy Plan (WRPP)

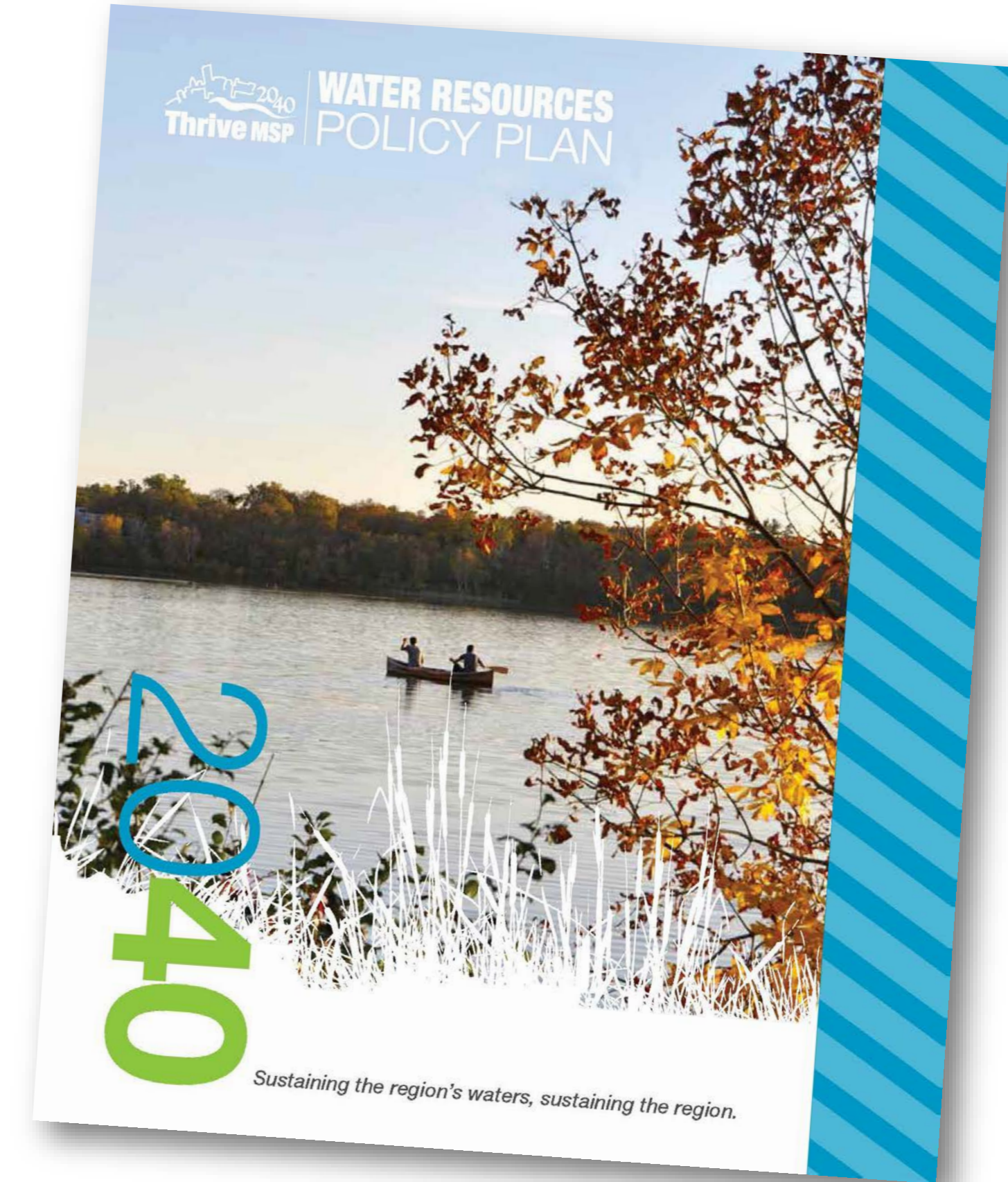
- Policy Plan identifies specific goals, strategies and polices in the areas of water supply, surface water and regional wastewater service.
- Wastewater System Plan outlines current regional system and planned improvements.
- Required content for Local Community Comprehensive Plans:
  - ✓ Wastewater
  - ✓ Surface Water
  - ✓ Water Supply Plans



# Regional Service Policies

## Water Resource Policy Plan (WRPP)

- Conformance with Regional Wastewater System
- Consistency with Council Policies
- Compatibility with adjacent and affected governmental units
- Accommodate Projected Growth
- Provide sufficient land areas to accommodate growth. *Developed vs. Undeveloped*
- Preserve areas for post-2040 growth.
- Conduct appropriate financial and economic analysis

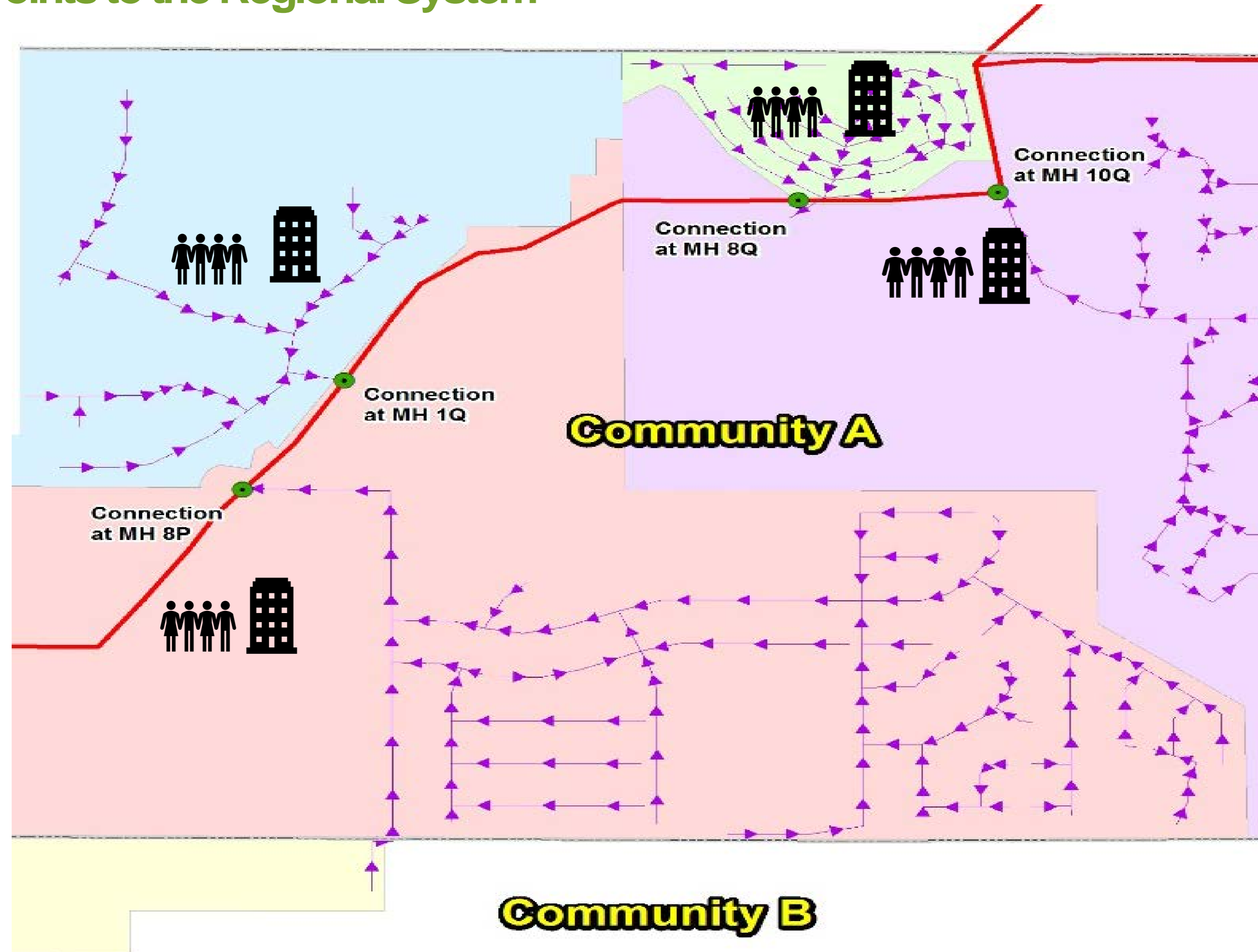


# Local Wastewater Plan Requirements



# Adopted Community Sewered Forecasts

## Local Connection Points to the Regional System



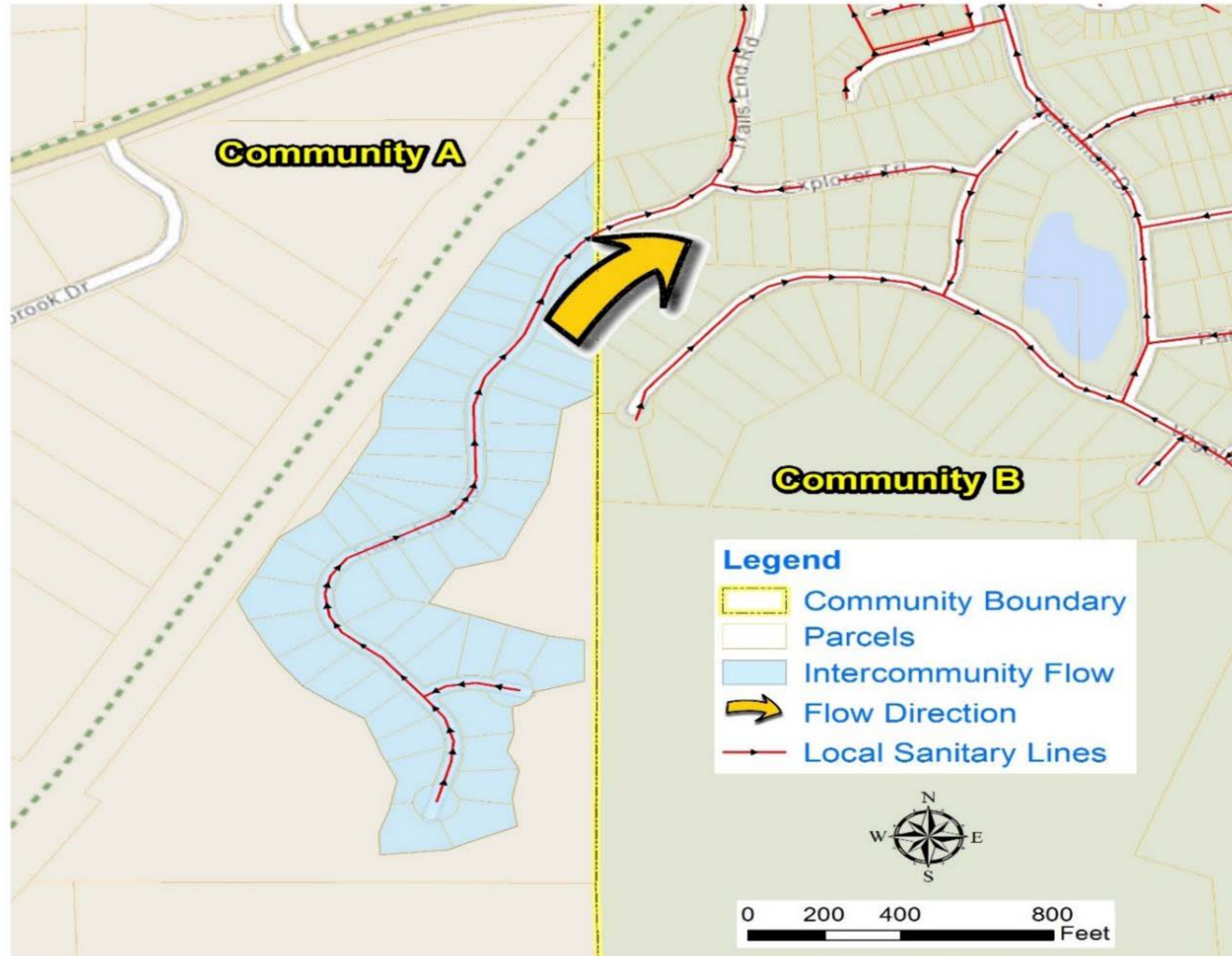


# Sanitary Sewer System Information Tables

APPENDIX D - PIPE CAPACITIES FOR THE ULTIMATE SYSTEM															
From Point	To Point	Design Flow (MGD)	Exist./Proposed	Existing Pipe Size (in)	Parallel Pipe Size (in)	Pipe Material	Length (ft)	Upstream Elev. (ft)	Downstream Elev. (ft)	Slope (%)	Inlet Control (cfs)	Outlet Control (MGD)	Capacity (cfs)	Capacity (MGD)	Capacity/Design Flow*
Medina System to Elm Creek Interceptor															
276	271	1.84	Proposed	12" IM		PVC	5200	965	979.81	--	--	--	--	--	--
274	271	2.56	Exist.	8		PVC	299	979.83	978.66	0.39	1.4	0.90	0.8	0.49	0.19
271	267	2.56	Exist.	10	15	PVC	970	978.66	975.75	0.30	1.7	1.10	1.2	0.78	0.30
267	257	4.47	Exist.	15	18	PVC	3621	975.59	969.30	0.17	4.1	2.65	2.7	1.74	0.39
257	250	5.30	Exist.	21	18	RCP	2848	969.30	966.30	0.11	9.1	5.88	5.2	3.31	0.63
250	238	5.81	Exist.	24		RCP	4256	966.30	961.26	0.12	13.0	8.40	7.8	5.04	0.87
238	237	6.03	Exist.	24		RCP	3923	961.26	954.82	0.16	13.0	8.40	9.2	5.93	0.98
256	257	0.53	Exist.	10		PVC	1576	975.87	969.33	0.41	1.7	1.10	1.4	0.91	1.74
275	267	2.31	Proposed	12" IM		PVC	10400	940	975.59	--	--	--	--	--	--
251	252	0.15	Exist.	10		PVC	205	978.44	977.27	0.57	1.7	1.10	1.7	1.07	7.19
252	250	0.15	Exist.	10		PVC	3477	969.30	966.50	0.08	1.7	1.10	0.6	0.40	2.70
220	223	0.04	Exist.	12		PVC	379	976.84	967.16	2.55	2.2	1.42	5.7	3.69	36.04
223	226	0.69	Exist.	12		PVC	616	967.16	960.24	1.12	2.2	1.42	3.8	2.44	2.05
226	235	0.75	Exist.	12		PVC	200	960.24	954.50	2.87	2.2	1.42	6.0	3.91	1.90
239	237	0.32	Exist.	12		PVC	3691	968.77	960.35	0.23	2.2	1.42	1.7	1.10	3.47
237	236	6.68	Exist.	24		PVC	2497	968.04	958.39	0.39	13.0	8.40	14.1	9.10	1.26
236**	235	6.79	Exist.	27		PVC	4200	955.63	942.43	0.31	17.7	11.43	17.4	11.24	1.66
235**	234	7.74	Exist.	27		PVC	3400	942.43	933.27	0.31	17.7	11.43	17.3	11.16	1.44
Morningside															
322	Orono	0.19	Exist.	8		PVC	1130	1039.54	1034.80	0.42	1.4	0.90	0.8	0.51	2.67
Lake Independence															
134	123	0.21	Exist.	8		PVC	8163	1035.40	1012.42	0.28	1.4	0.90	0.6	0.42	2.02
123	112	0.24	Exist.	10		PVC	3940	1012.42	980.34	0.81	1.7	1.10	2.0	1.28	4.62
112	108	0.35	Exist.	15		PVC	655	980.34	979.06	0.20	4.1	2.65	2.9	1.85	5.34
*Capacity to Design Flow ratio based on capacity of existing pipe. Proposed parallel pipe provides a ratio greater than 1.0 as a primary design criterion for the parallel pipe.															
** Indicates Elm Creek Interceptor segments															



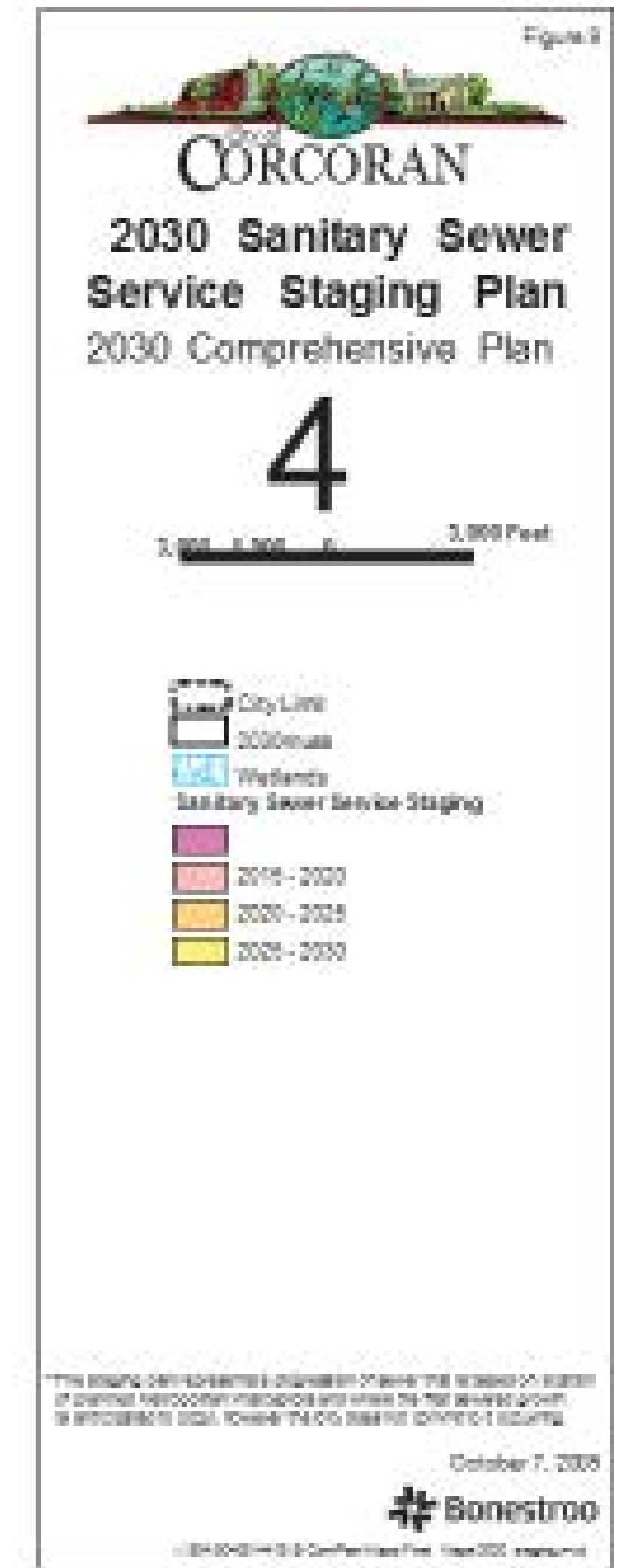
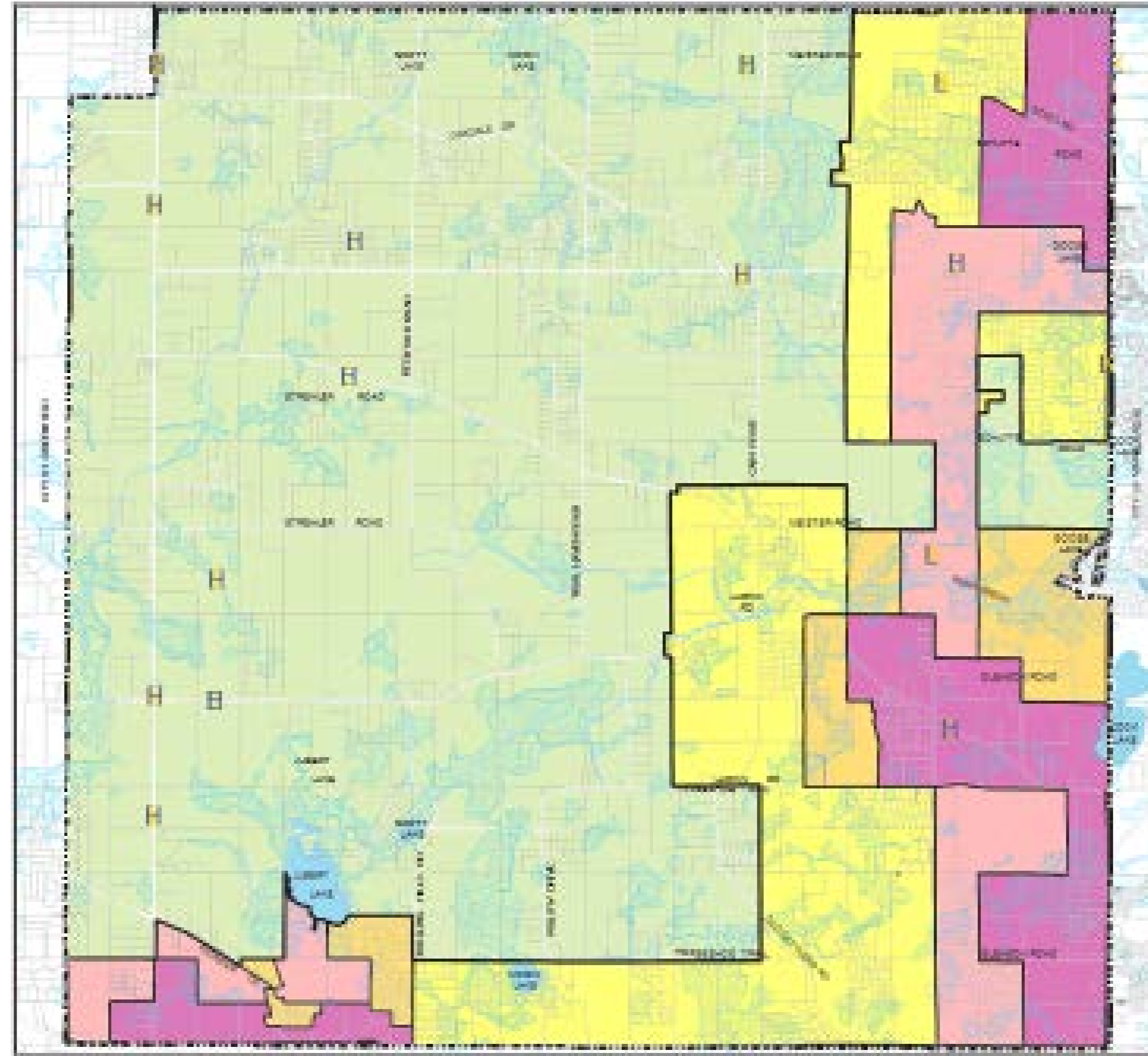
# Intercommunity Service Agreements





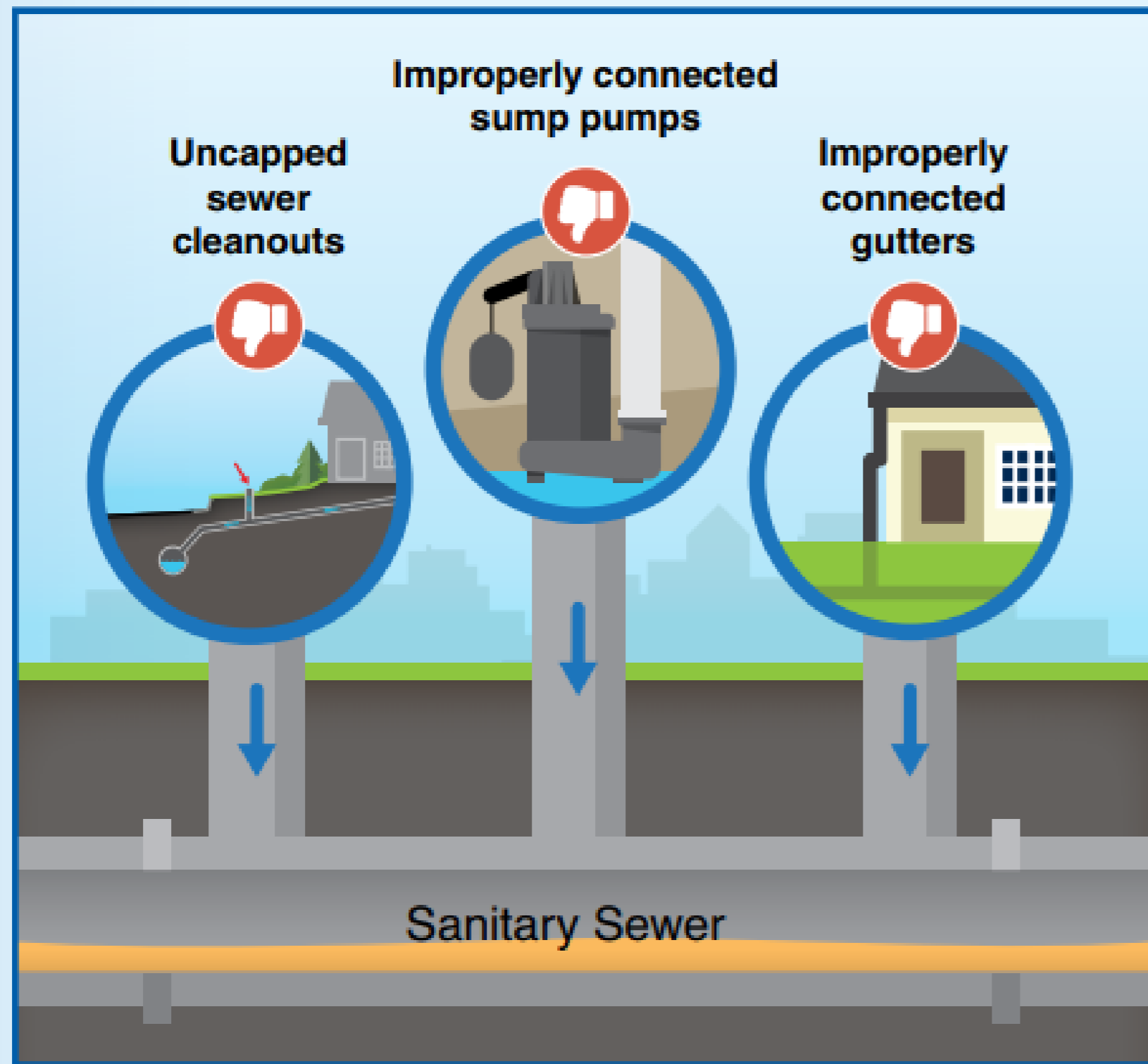
# Staging Plans

- Not specifically required in local Wastewater Plan.
- Approval of Wastewater Plan commits to serving 2040 sewer forecasts (growth).
- Requirement of Land Use Plan.
- Beneficial to local efforts for service planning by focusing growth in predictable areas of the community.

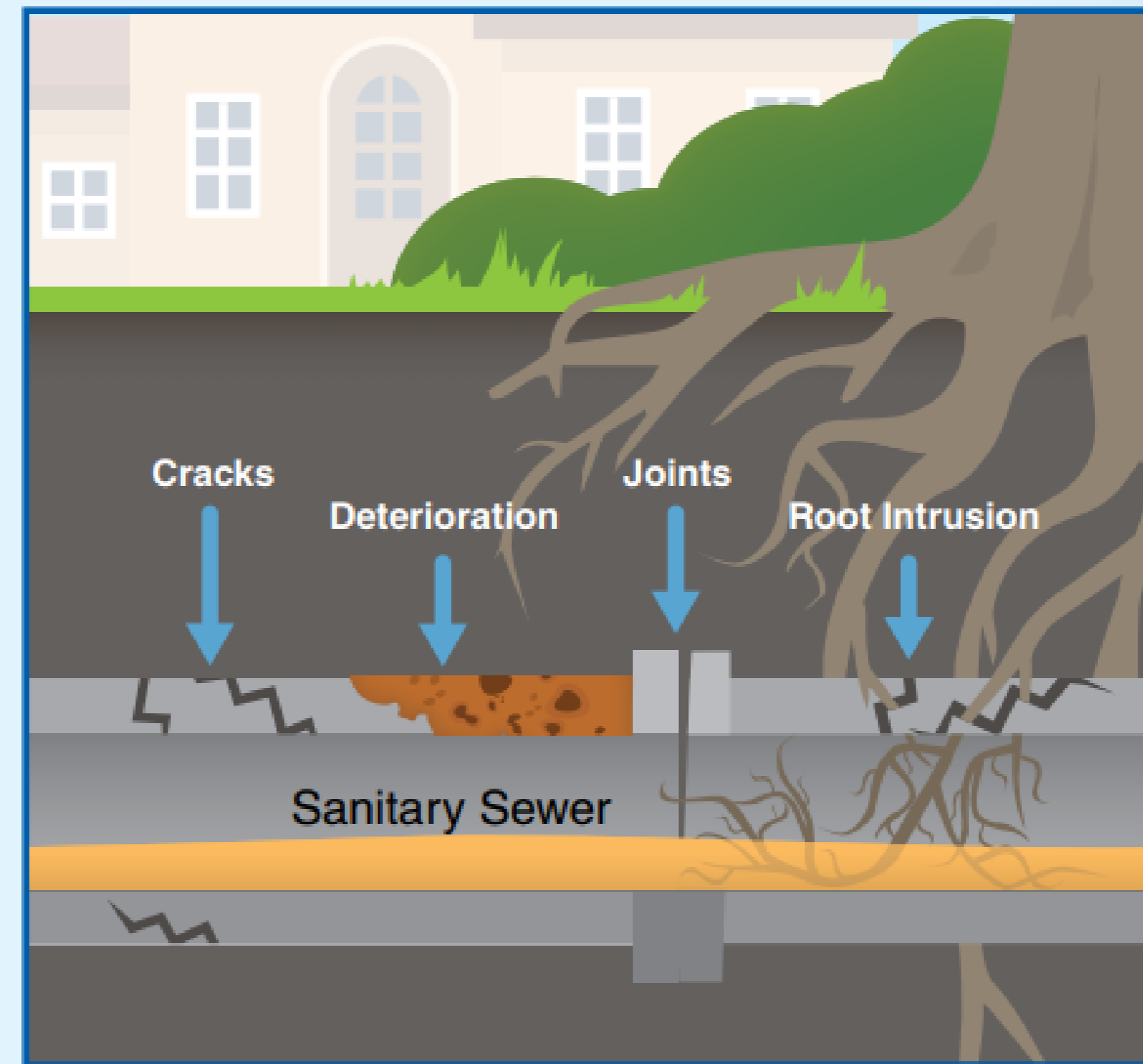


# I/I costs everyone!

**Inflow and infiltration (I/I)** is clear water that enters the wastewater system. It overloads the system and can cause costly sewer backups into homes and buildings.



**Inflow** is clear water that quickly enters the wastewater system after rainfall events from sources such as sewer cleanouts, sump pumps, gutters, building foundation drains, and broken maintenance hole covers.



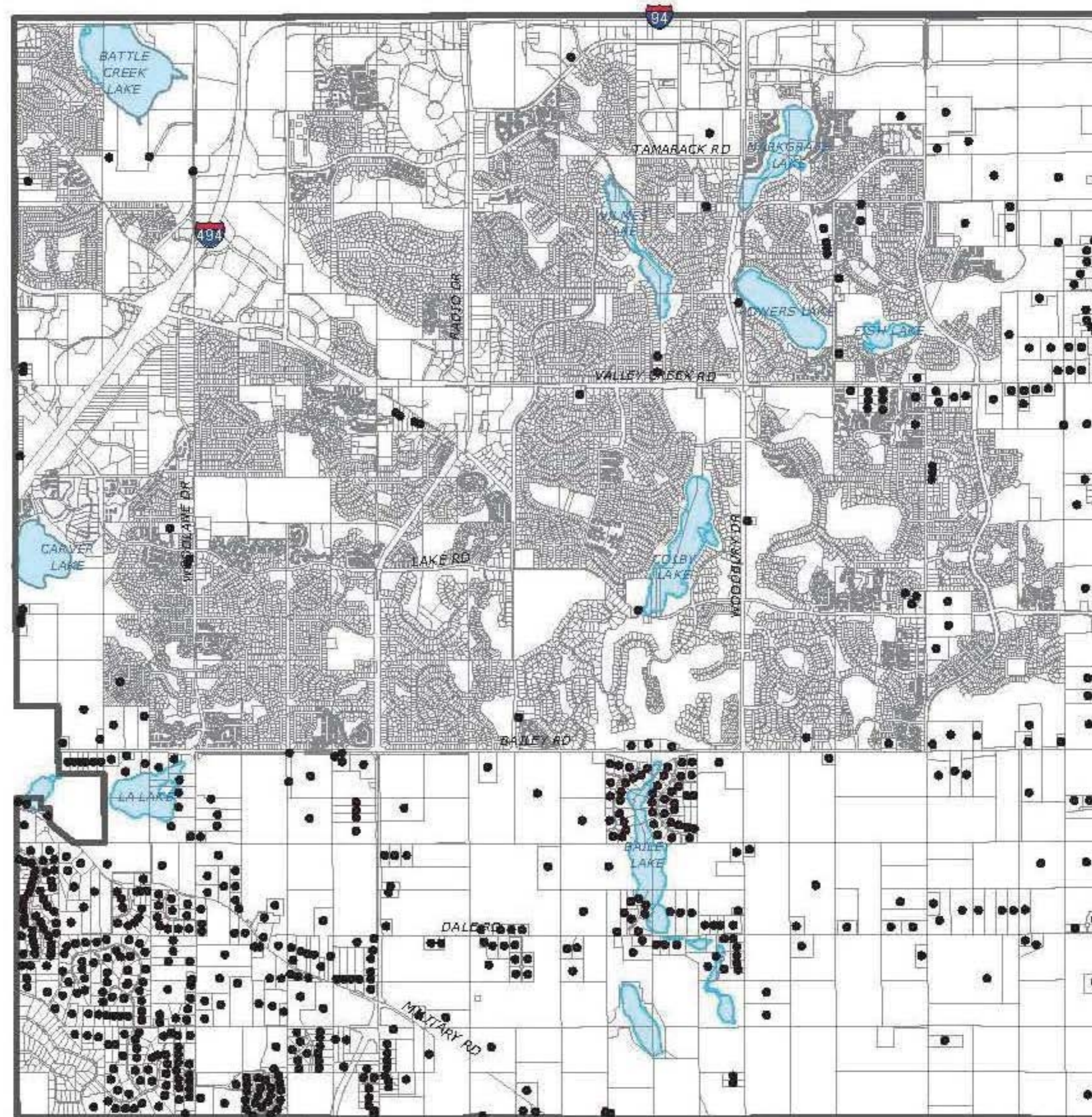
**Infiltration** is clear water that gradually enters the wastewater system below ground through cracks and openings in sewer service lines and joints, and public sewer mains and deteriorated maintenance holes.

# Preventing and Reducing Inflow and Infiltration

- ✓ Quantify Amount
- ✓ Program strategy
- ✓ Priorities
- ✓ Scheduling
- ✓ Financing mechanisms



# Subsurface Sewage Treatment Systems (SSTS)



Map Prepared by Borestro

Figure 10-2: Individual System Location Map

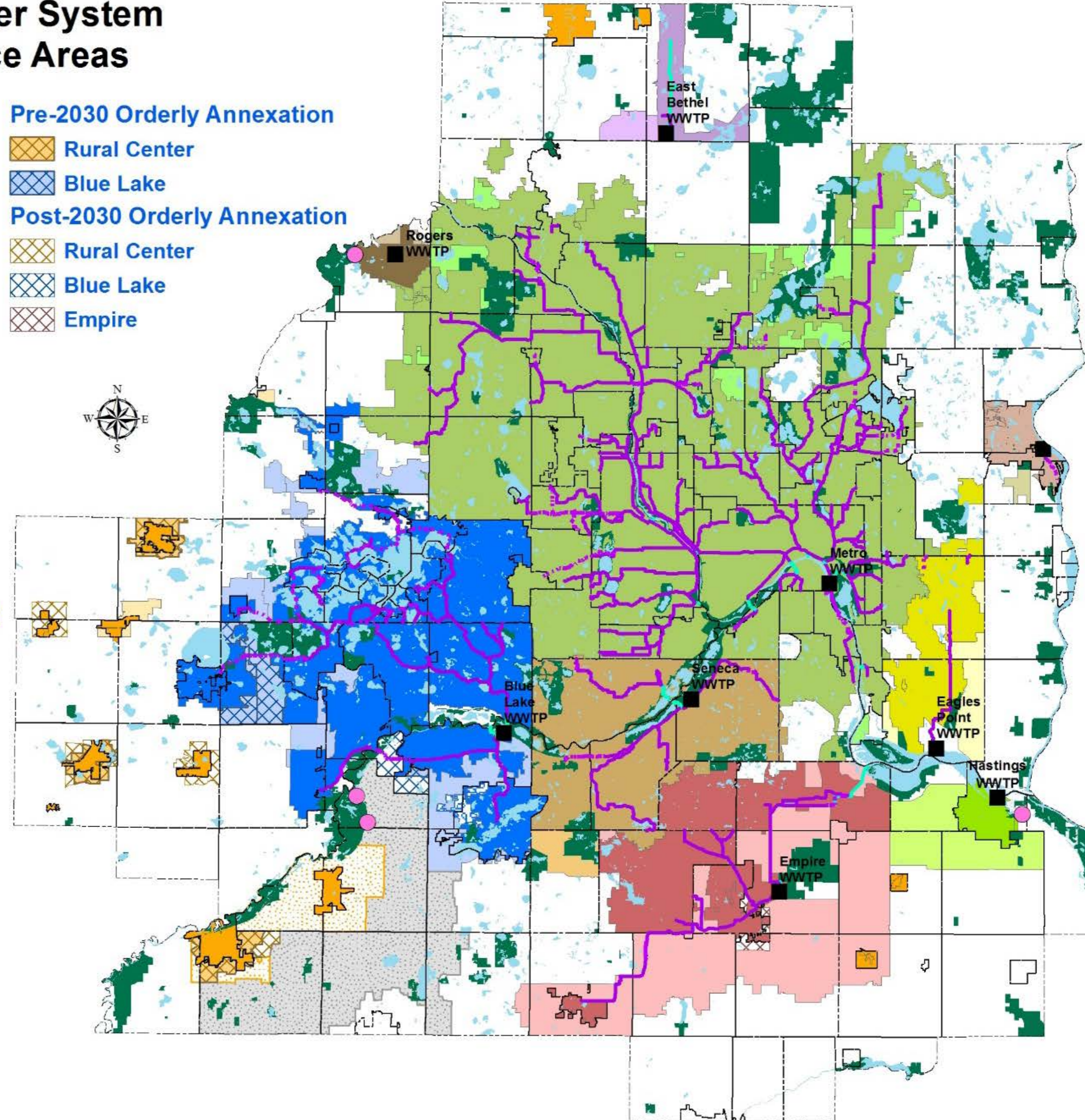
Woodbury 2030 Comprehensive Plan








# Regional Wastewater System Long Term Service Areas

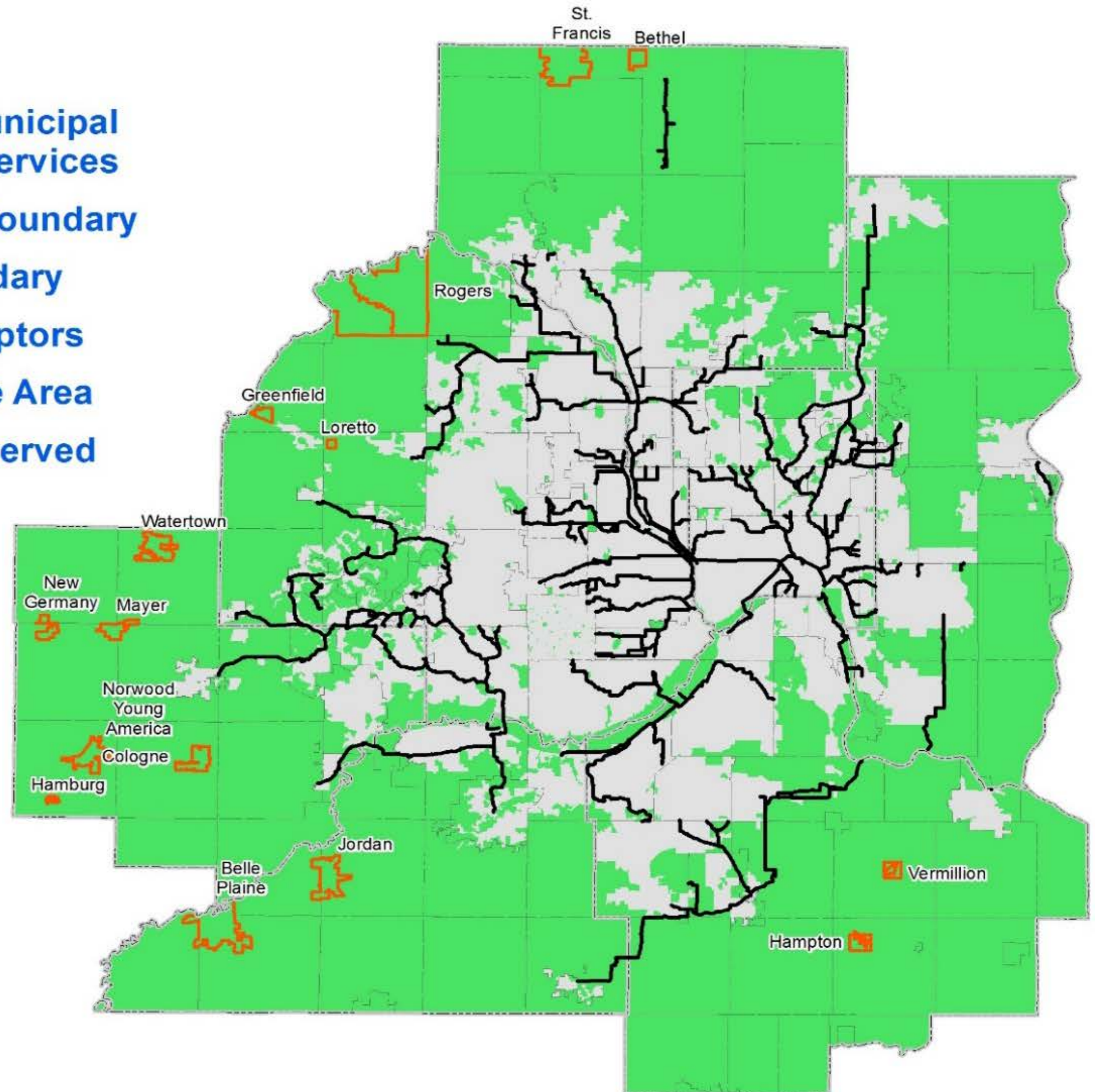
- MCES Treatment Plant
- Future WWTP Site
- Gravity
- ⋯ Forcemain
- ⋯ Siphon
- Outfall
- Lakes and Rivers
- Long Term Service Area**
- Rural Center
- Potential Rural Center
- Metro
- Potential Metro
- Blue Lake
- Potential Blue Lake
- SMSC Area
- Scott Co. Rural Center Expansion
- Scott Co. Urban Expansion
- Seneca
- Potential Seneca
- Empire
- Potential Empire
- Eagles Point
- Potential Eagles Point
- St Croix Valley
- Potential St Croix
- Hastings
- Potential Hastings
- Rogers
- Potential Rogers
- East Bethel
- Potential East Bethel

- Pre-2030 Orderly Annexation**
- Rural Center
- Blue Lake
- Post-2030 Orderly Annexation**
- Rural Center
- Blue Lake
- Empire



# Areas Not Served by the Regional System

-  Cities with Municipal Wastewater Services
-  Community Boundary
-  County Boundary
-  MCES Interceptors
-  MCES Service Area
-  Currently Unserved



# Municipal Wastewater Treatment Facilities



# Non-Municipal Communal Treatment Systems

**Private/Communal Treatment System**





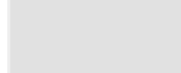


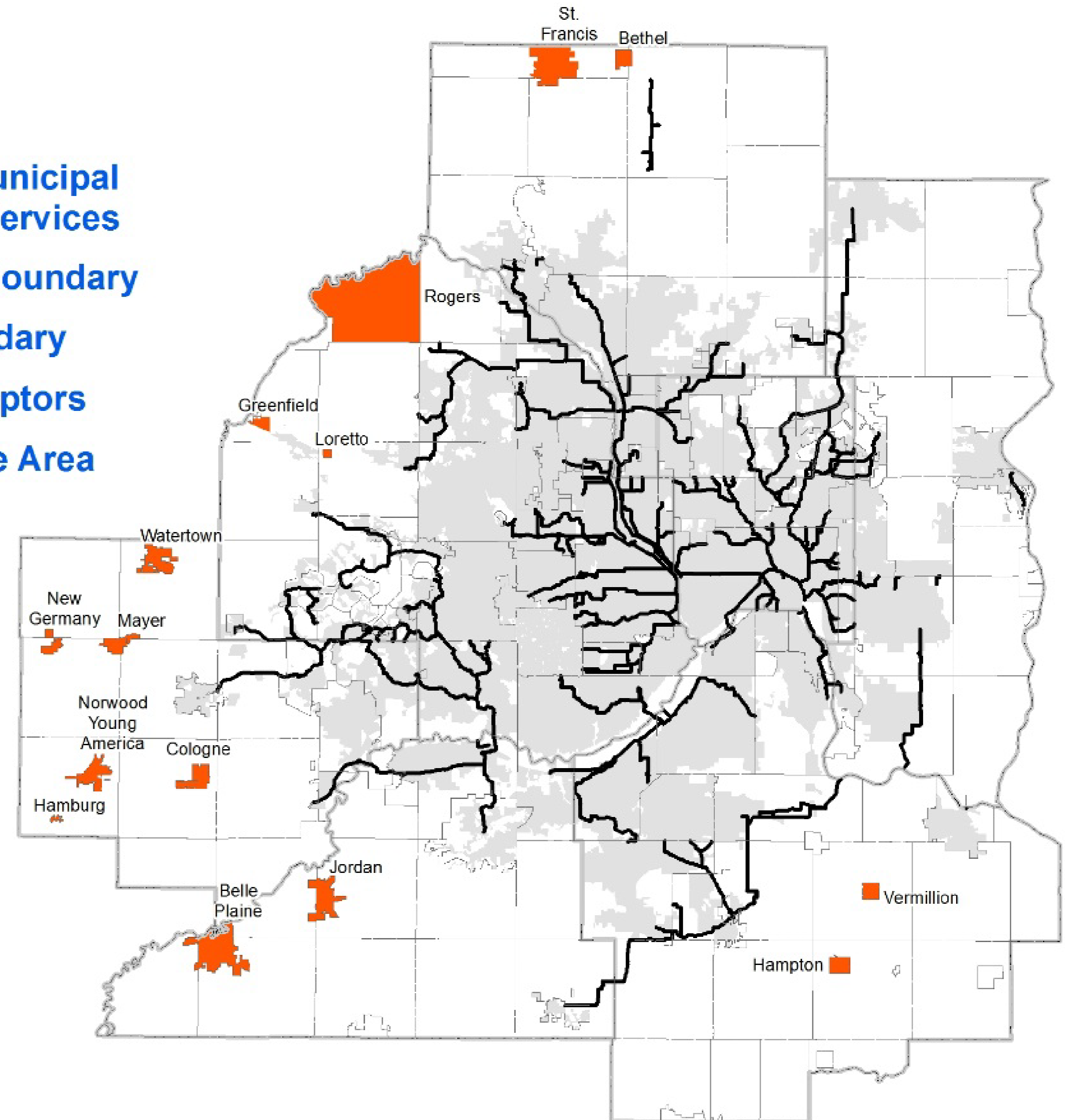
**Manufactured Home Neighborhood**





# Areas Served by Local Treatment Systems

-  Cities with Municipal Wastewater Services
-  Community Boundary
-  County Boundary
-  MCES Interceptors
-  MCES Service Area

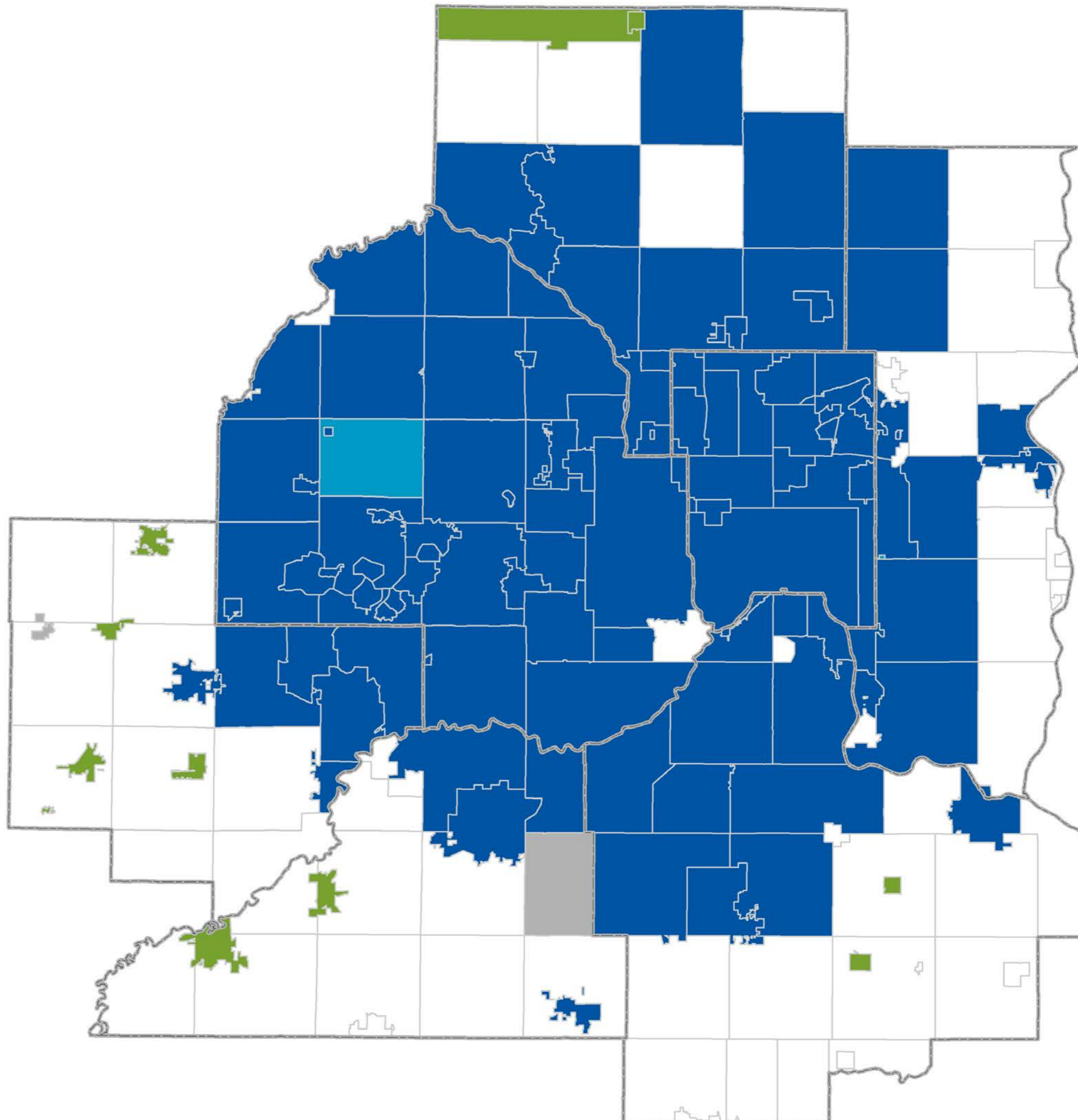
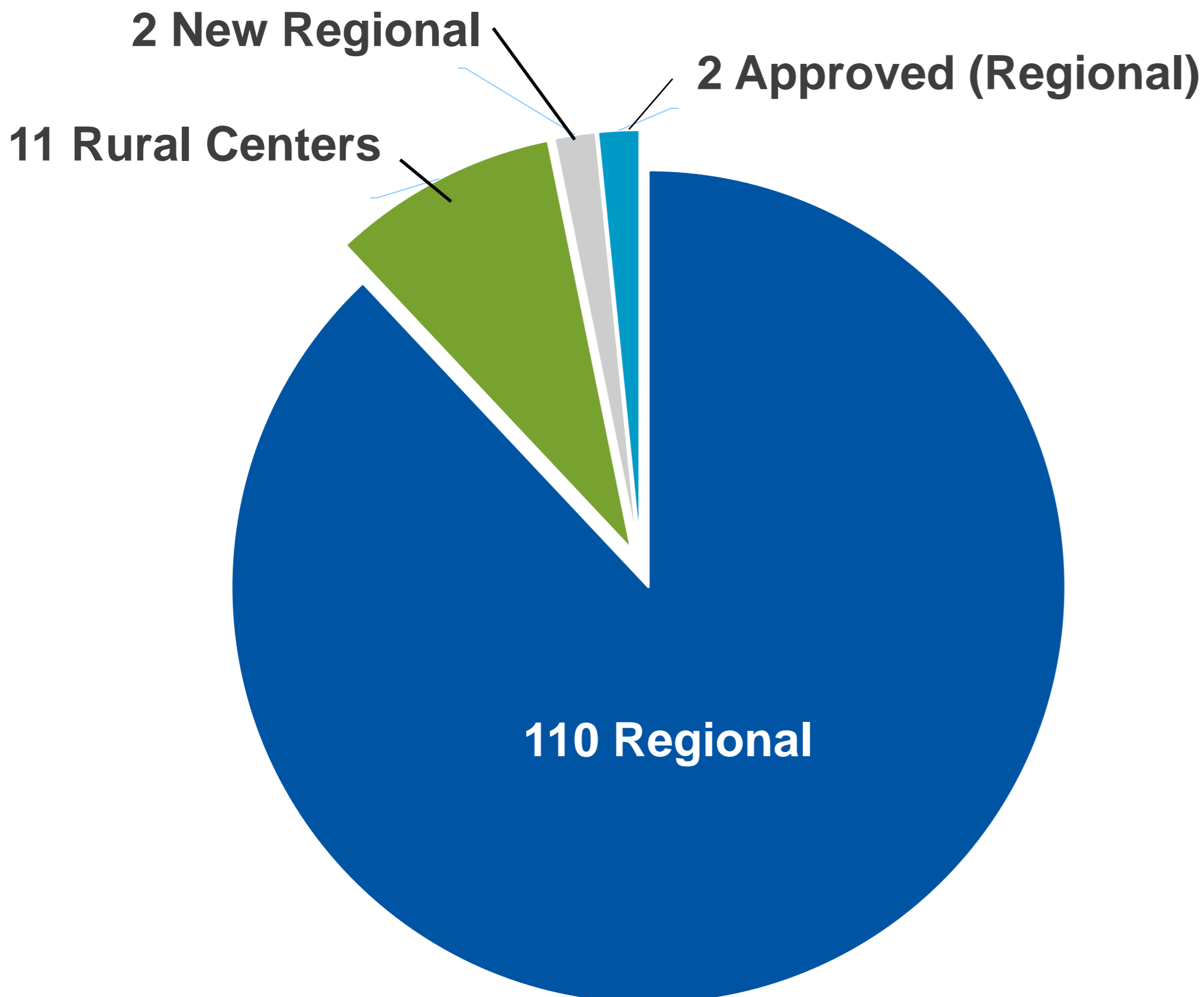


# WWTP Capacity and Existing Flow

	2010	2020	2030	2040
FLOW	5.7	7.2	9.5	11.0
FACILITY CAPACITY	10.0	10.0	10.0	10.0

Flow in Million Gallons Per Day

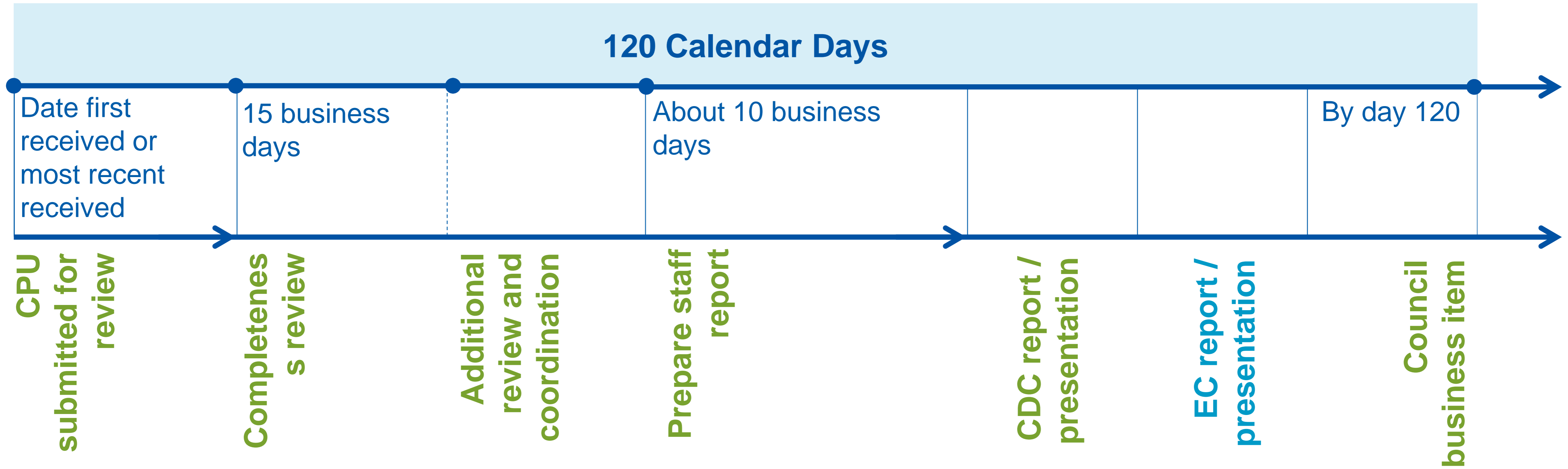
# Wastewater Plan Status Overview



# Process and Timelines



# Official Review Process



# Staff from across the Council review plans



## Community Development

- Local Planning Assistance
- Research
- Regional Parks
- Housing Policy



## Environmental Services

- Engineering Programs
- Water Resources
- Water Supply Planning



## Metropolitan Transportation Services

- Highway Planning
- Multi Modal Planning
- Travel Modeling & Research
- Technical Planning Support

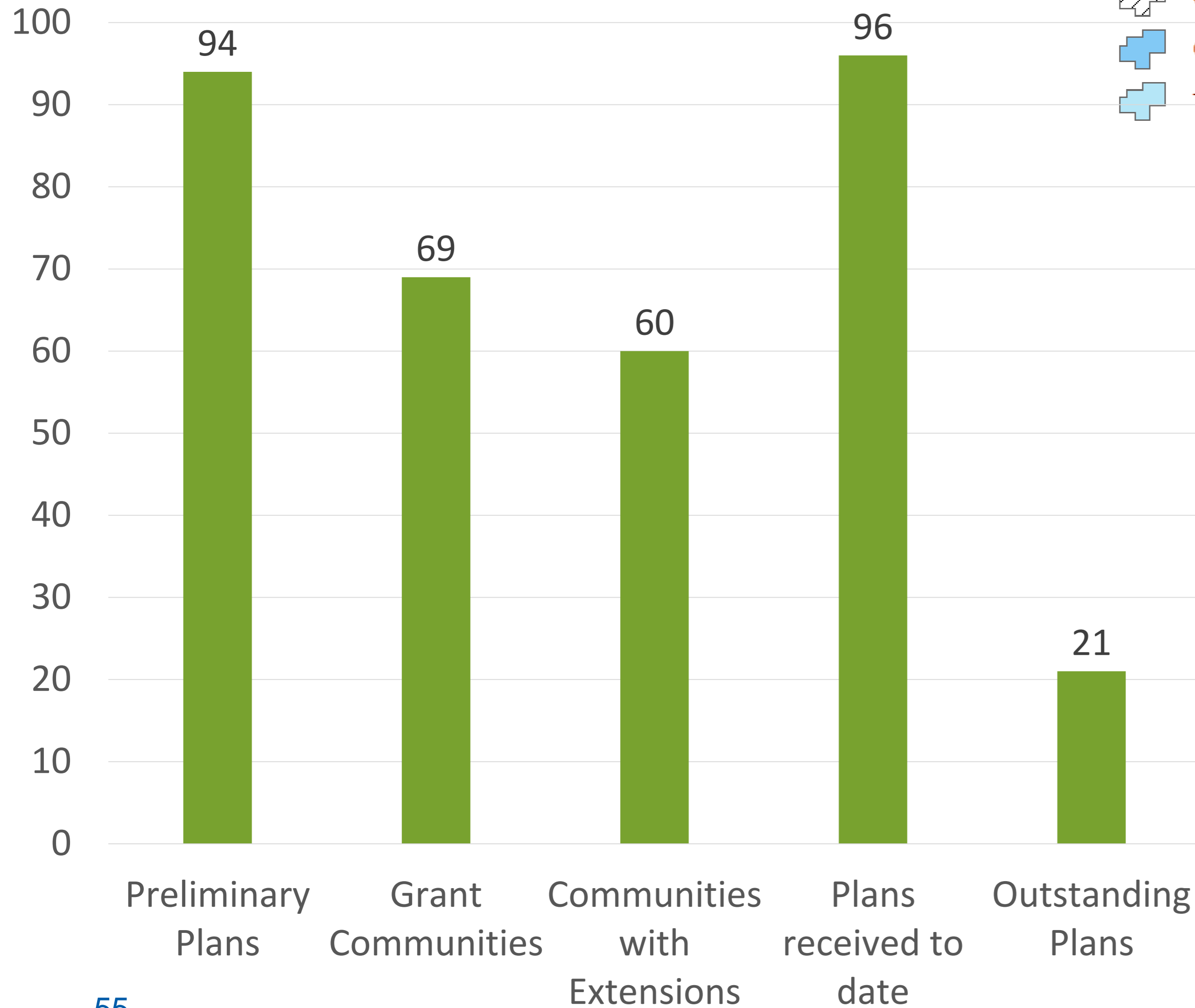









## Metro Transit

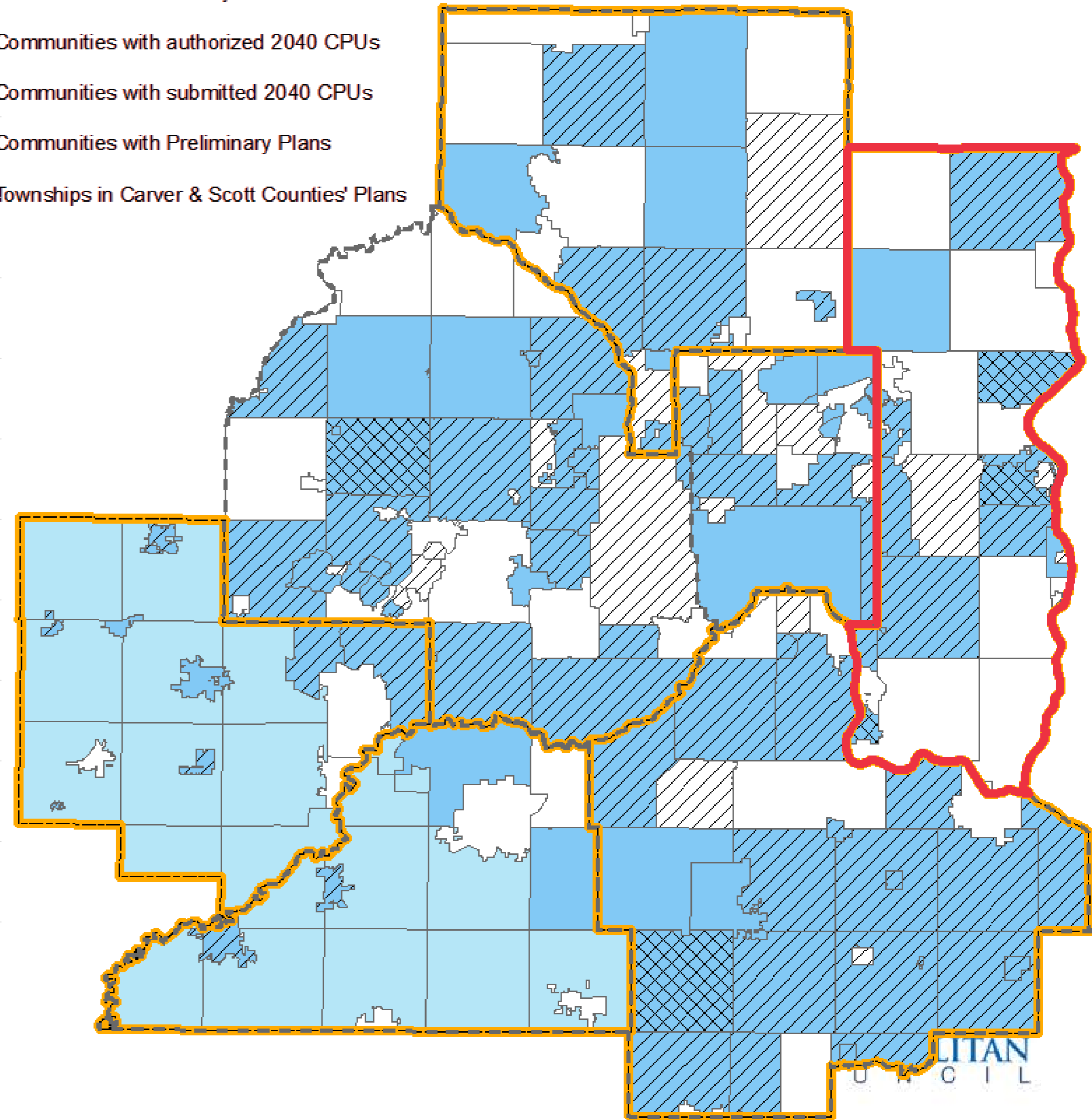
- Route and Service Planning



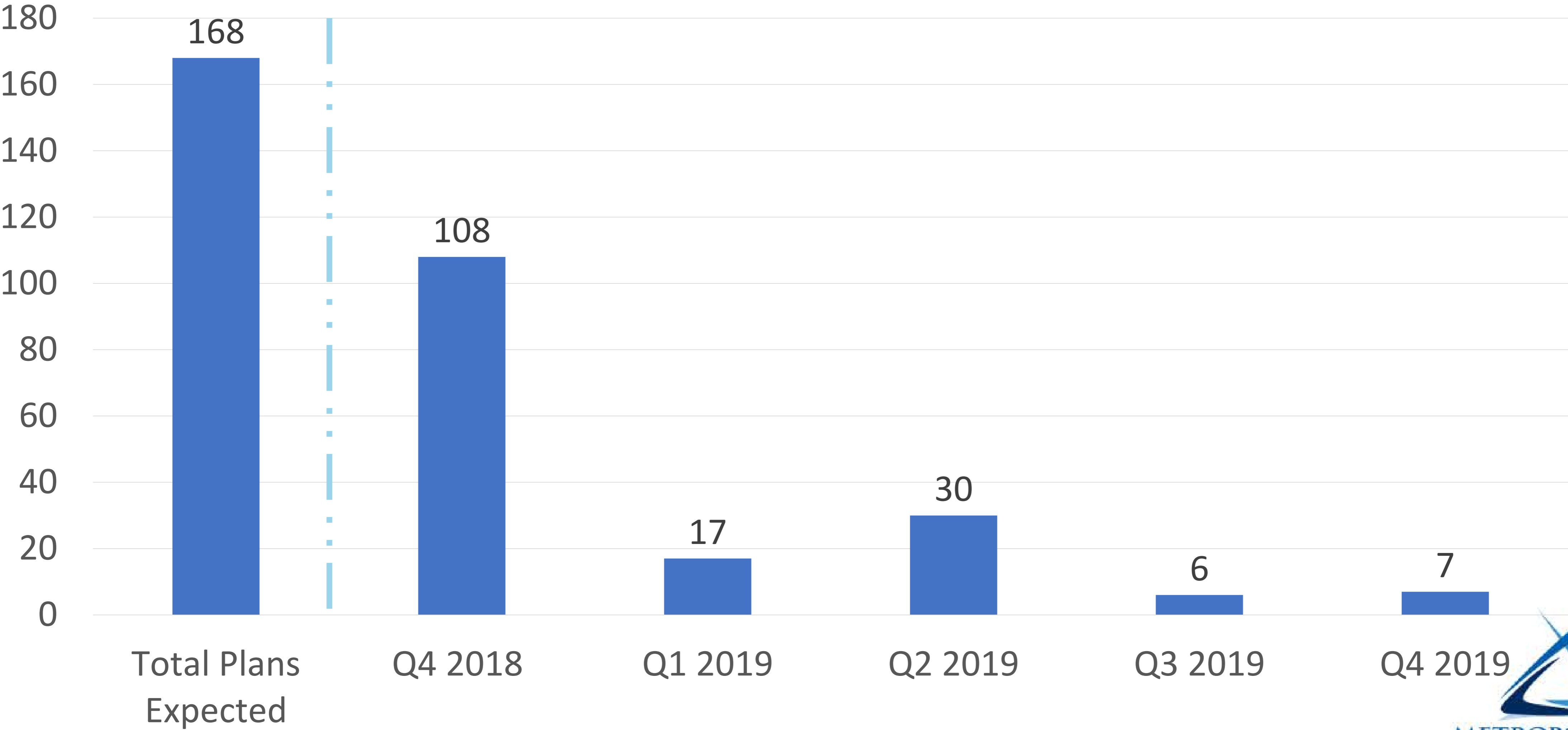
# Plan Status Overview



-  Counties with authorized 2040 Plans
-  Counties with submitted 2040 CPUs
-  Counties with Preliminary Plans
-  Communities with authorized 2040 CPUs
-  Communities with submitted 2040 CPUs
-  Communities with Preliminary Plans
-  Townships in Carver & Scott Counties' Plans



# Plan Status Overview - Timeline

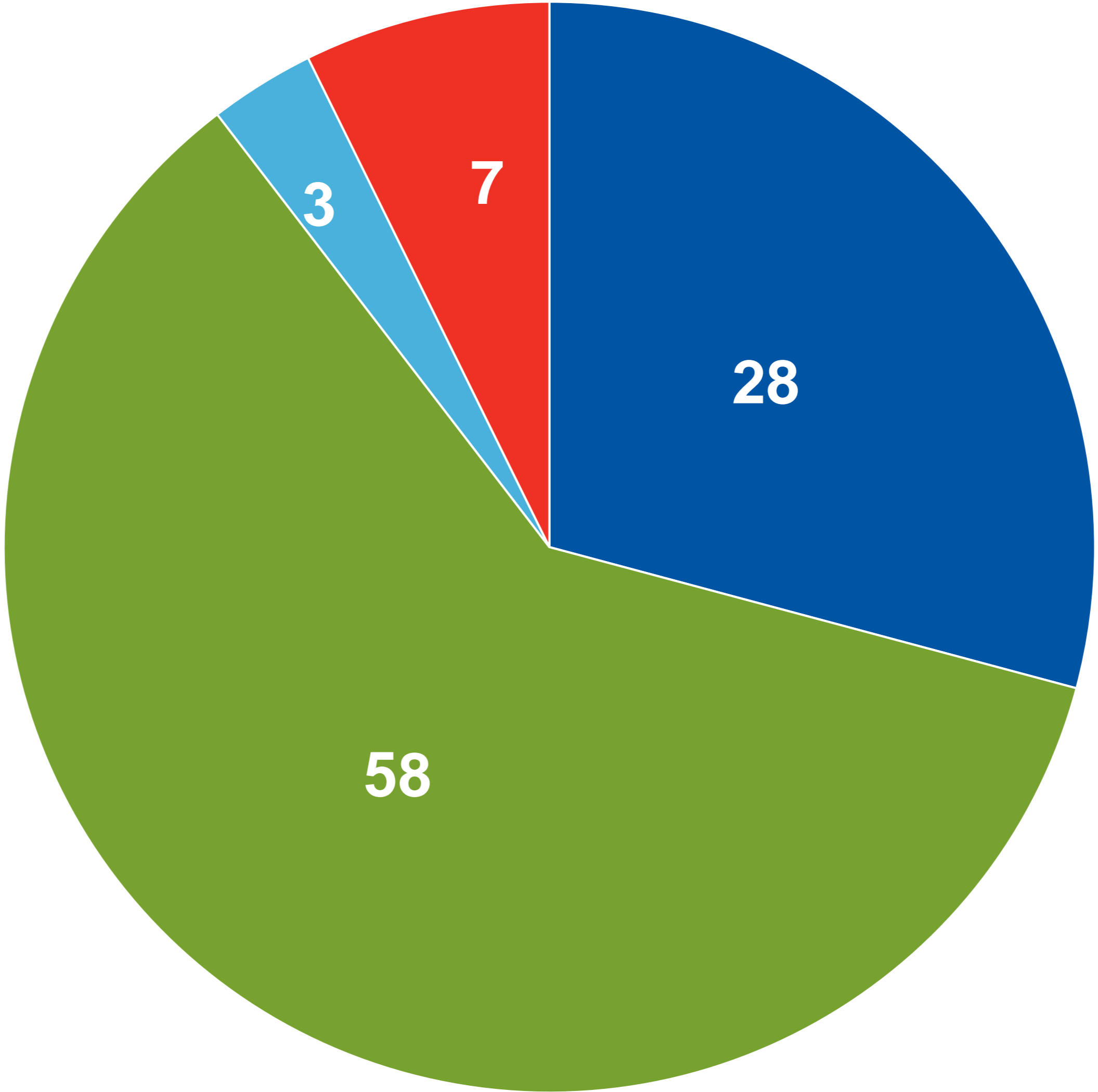




# Current Status of Plan Reviews

**96** Plans Received

- 58 Incomplete
- 28 Plans In Process
- 3 Complete Plans
- 7 Authorized Plans



- Plans In Process
- Incomplete Plans
- Complete Plans
- Authorized Plans



# Discussion

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