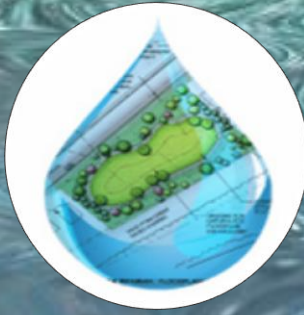


Stirring it up for the South Suburbs



Partnerships for HUD's National Disaster Resilience Competition

Dominic Tocci, Cook County
Joseph Kratzer, MWRD
Gunilla Goulding, Arcadis



March 9, 2016

Protecting Our Water Environment



Design & Consultancy
for natural and
built assets

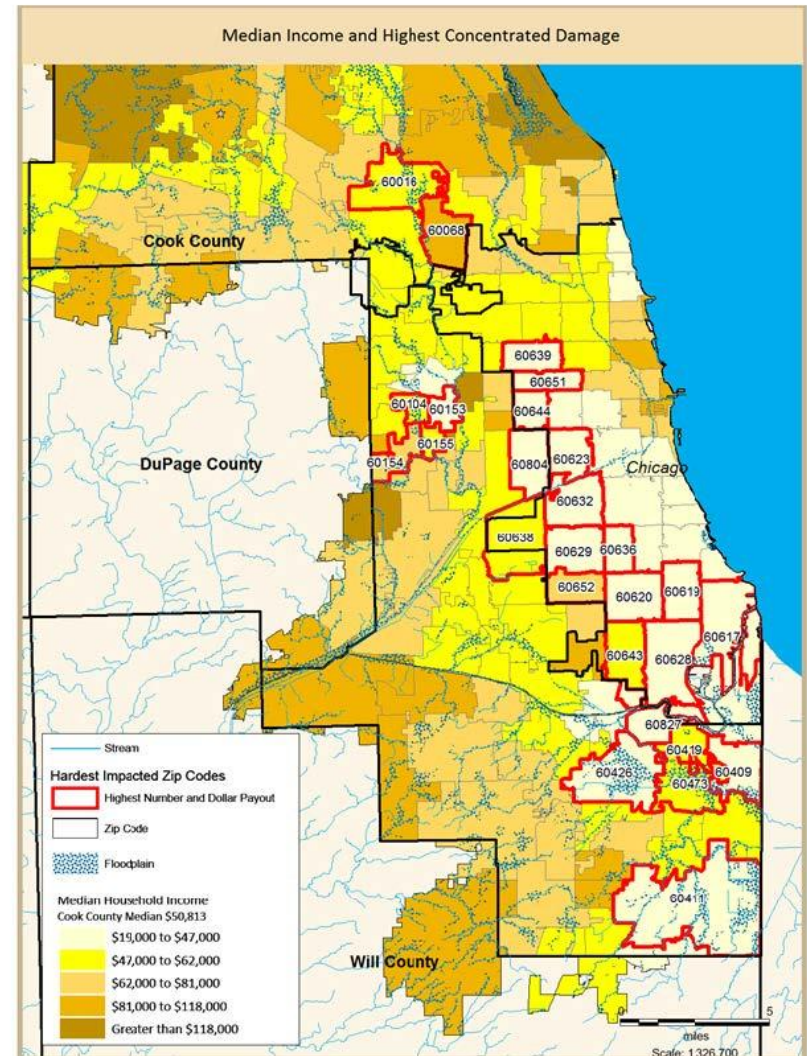
Agenda

- Introduction to Cook County's pilot area for the National Disaster Resilience Competition (NDRC)
- Key aspects of cross-agency planning for NDRC application
 - Problem area evaluation and prioritization
 - Solutions development
- Partnering lessons learned

National Disaster Resilience Competition

Need in Cook County

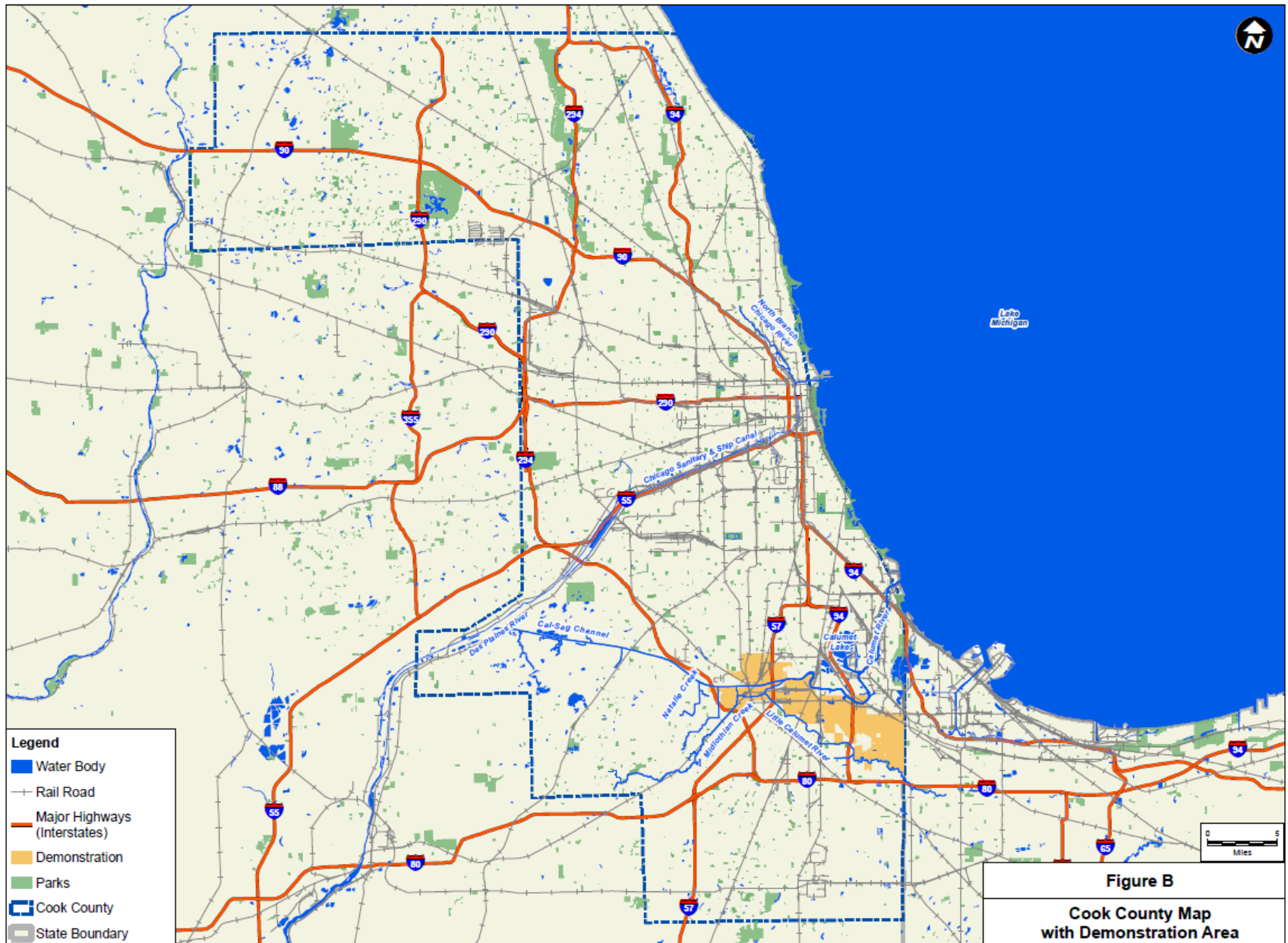
- Demonstrated unmet need in infrastructure and housing
- Focused on economic, environmental, and social toll of flooding and other hazards
- Highlighted disproportionate impacts on low-to-moderate income households
- Emphasized the need for a response to severe, repetitive, and chronic effects of flooding



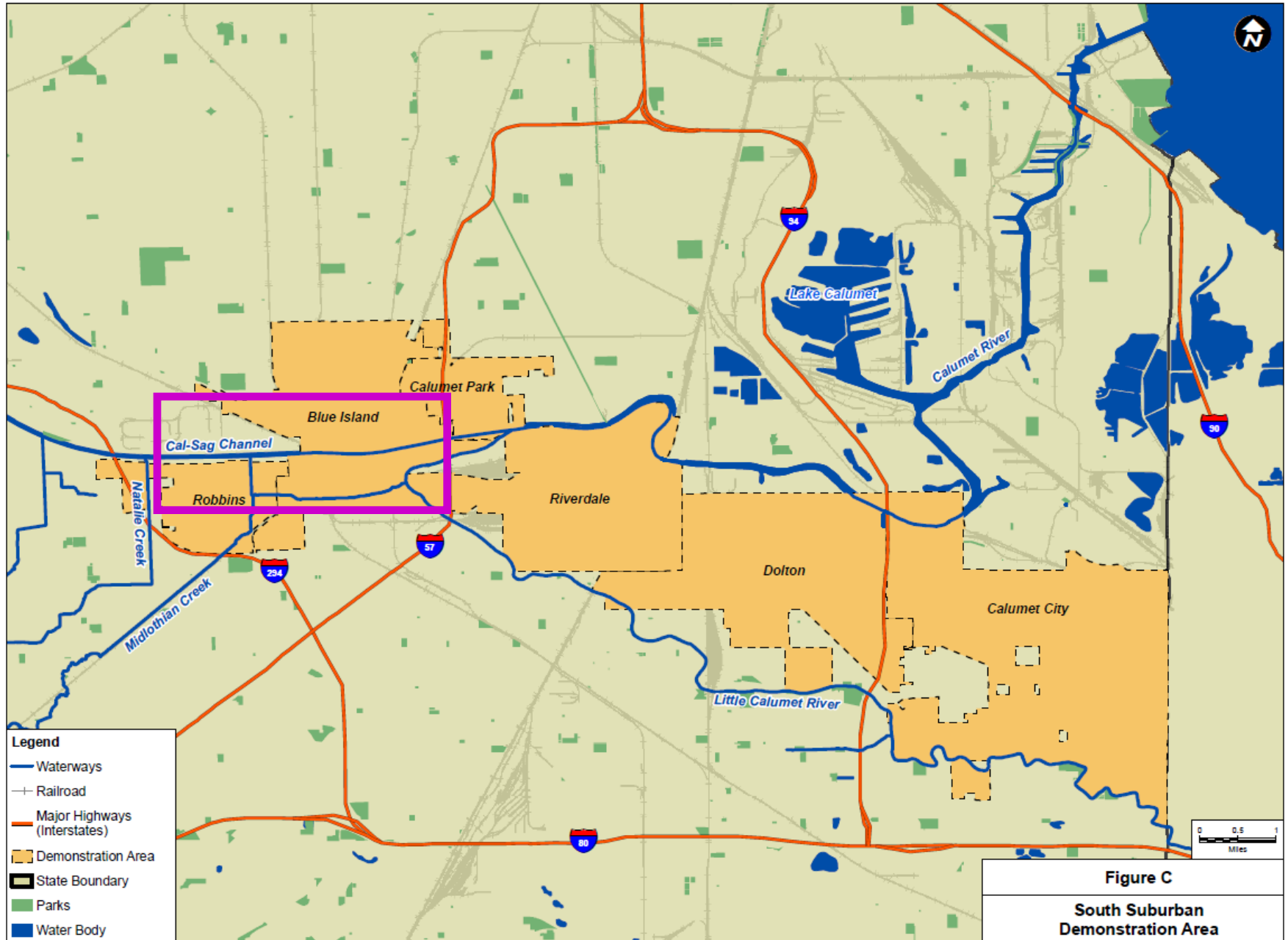
National Disaster Resilience Competition Partners

- MWRD - Provide stormwater management expertise, and assist with outreach, data and narrative compilation
- Arcadis (consultant to MWRD) - Assist with outreach, data and narrative compilation, project identification and cost benefit analysis work
- Outreach – Led by Hubert Morgan in partnership with Cook County, MWRD, Arcadis, and municipalities
- SSMMA – knowledge of and contact with active redevelopment opportunities
- Other County Departments, Chicago Metropolitan Agency for Planning (CMAP) and other external partners, especially non-profit agencies

South Suburban Pilot Area



South Suburban Pilot Area



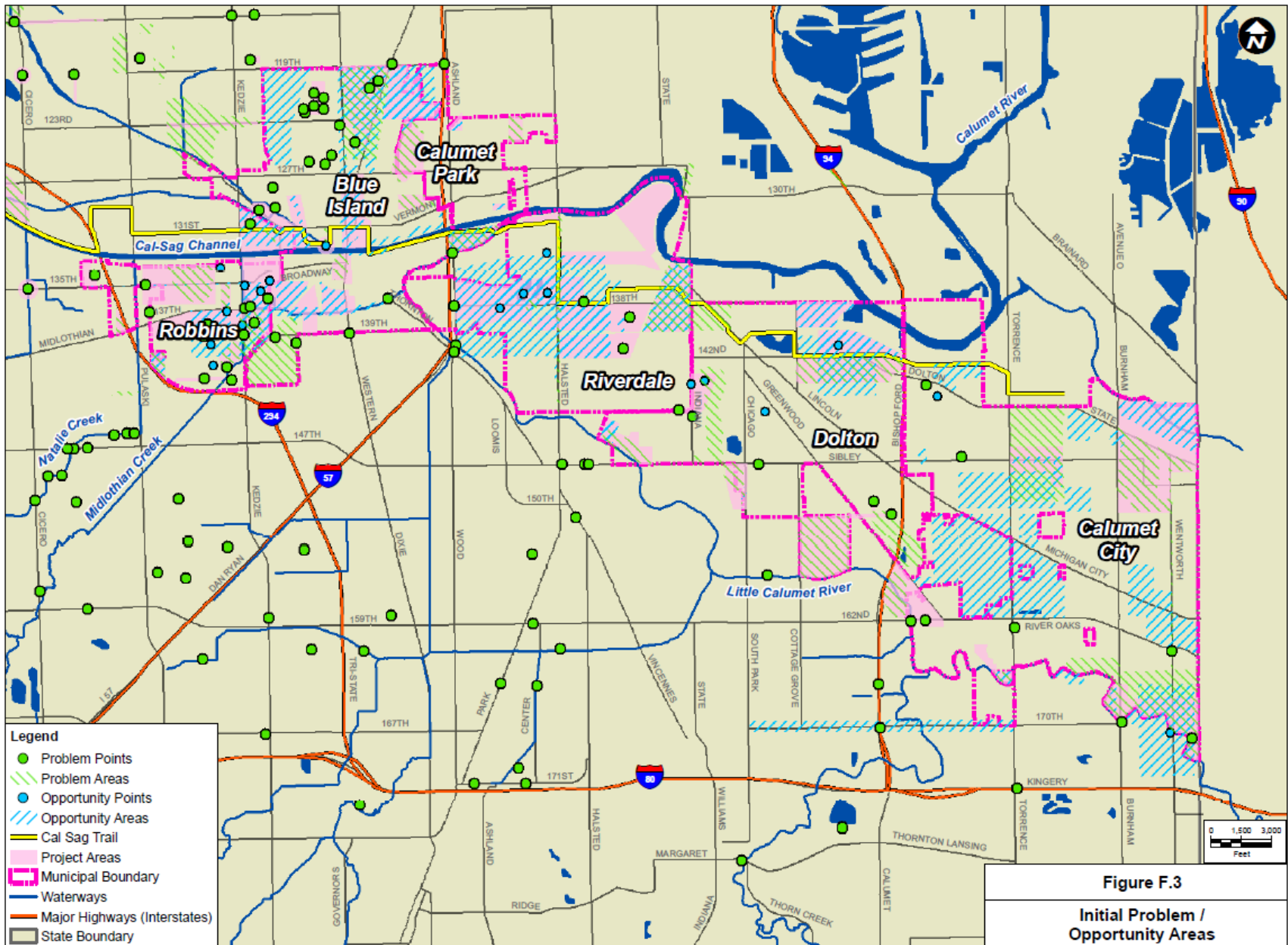
National Disaster Resilience Competition Approach

- Building capacity for resilience: physical (built environment), individual, government
- Asset-rich, but many challenges and vulnerabilities
- NDRC will target projects that address flood response and mitigation as the first layer in a broader program to foster recovery and growth in the pilot area
- Improvements in residential, commercial and industrial areas promote:
 - Sustainable water management
 - Economic viability by generating jobs and investment
 - Health and quality of life within the communities
- Use the above as screening criteria for the application

Phase 2 application planning process

- Identify and select problem areas*
- Analyze existing conditions
- Develop solutions*
- Select and prioritize projects
- Consult communities
- Revise projects based on community input
- Write application

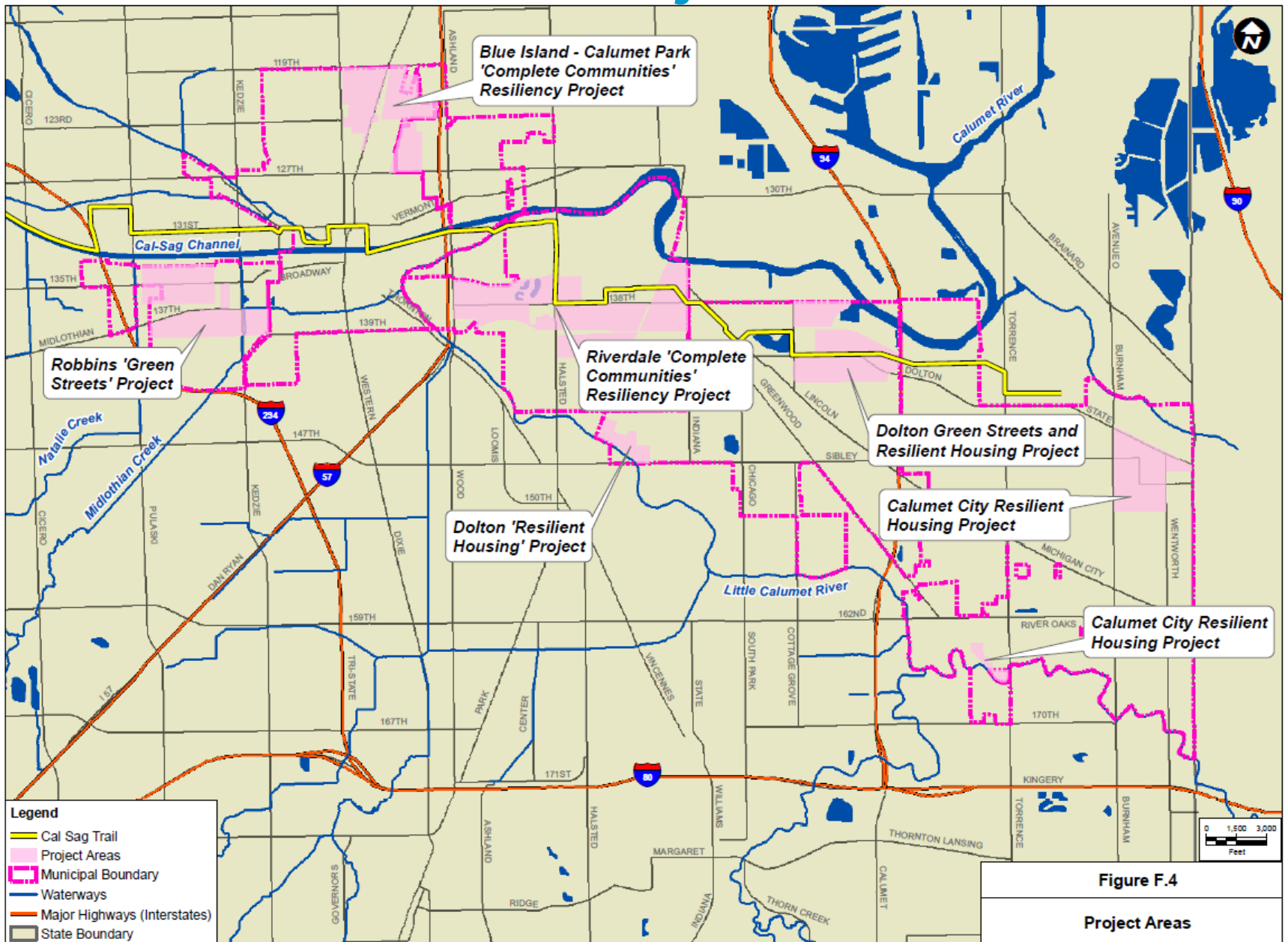
Initial Problem and Opportunity Areas



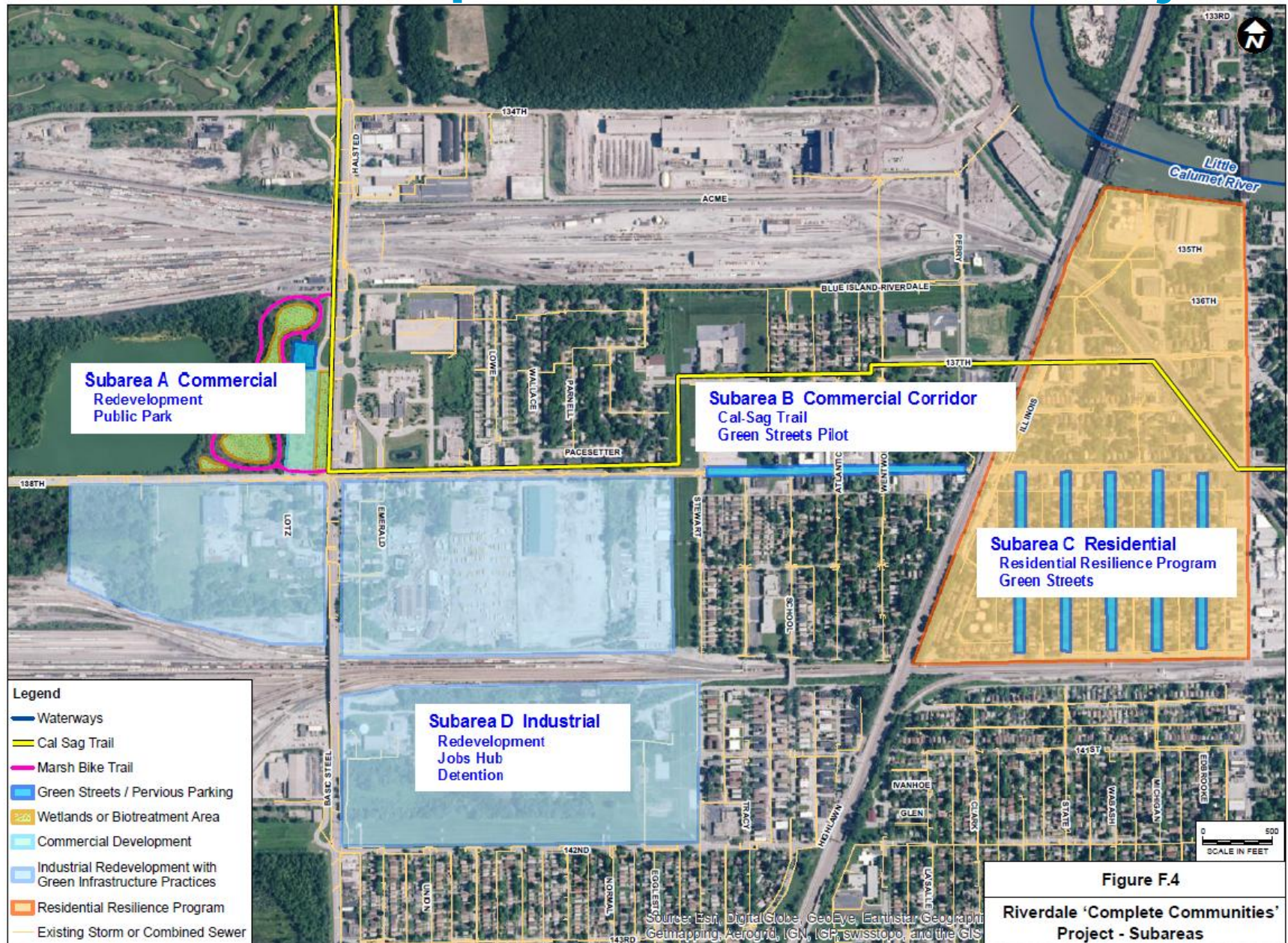
Project selection/ ranking criteria

- Number of flood-affected structures
 - Flooded in April 2013
 - Existing County or MWRD projects
 - Housing opportunity
 - Redevelopment opportunity/ identified developer
 - Community priority
 - Stormwater management opportunity
 - Space for public amenities
 - Access to transit
 - Potential environmental hazards
- High weight*
- Medium weight*
- Low weight*
- Points subtracted*

Selected Project Areas

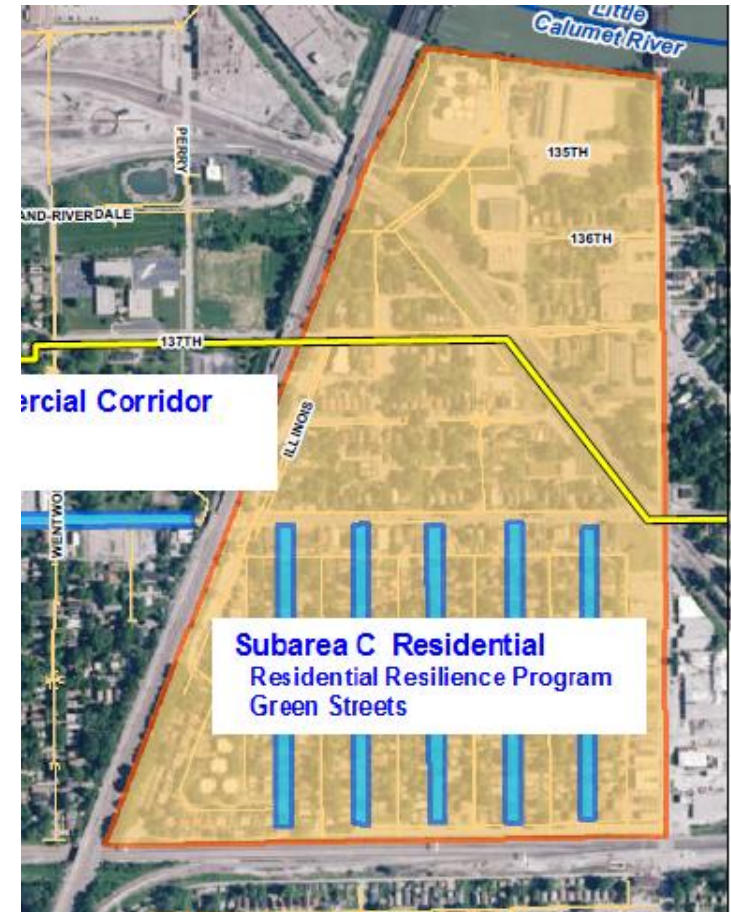


Riverdale Complete Communities' Project



Riverdale Subarea C – Proposed Improvements

- Green streets along five major streets
- Individual property solutions for remaining areas through Residential Resilience program

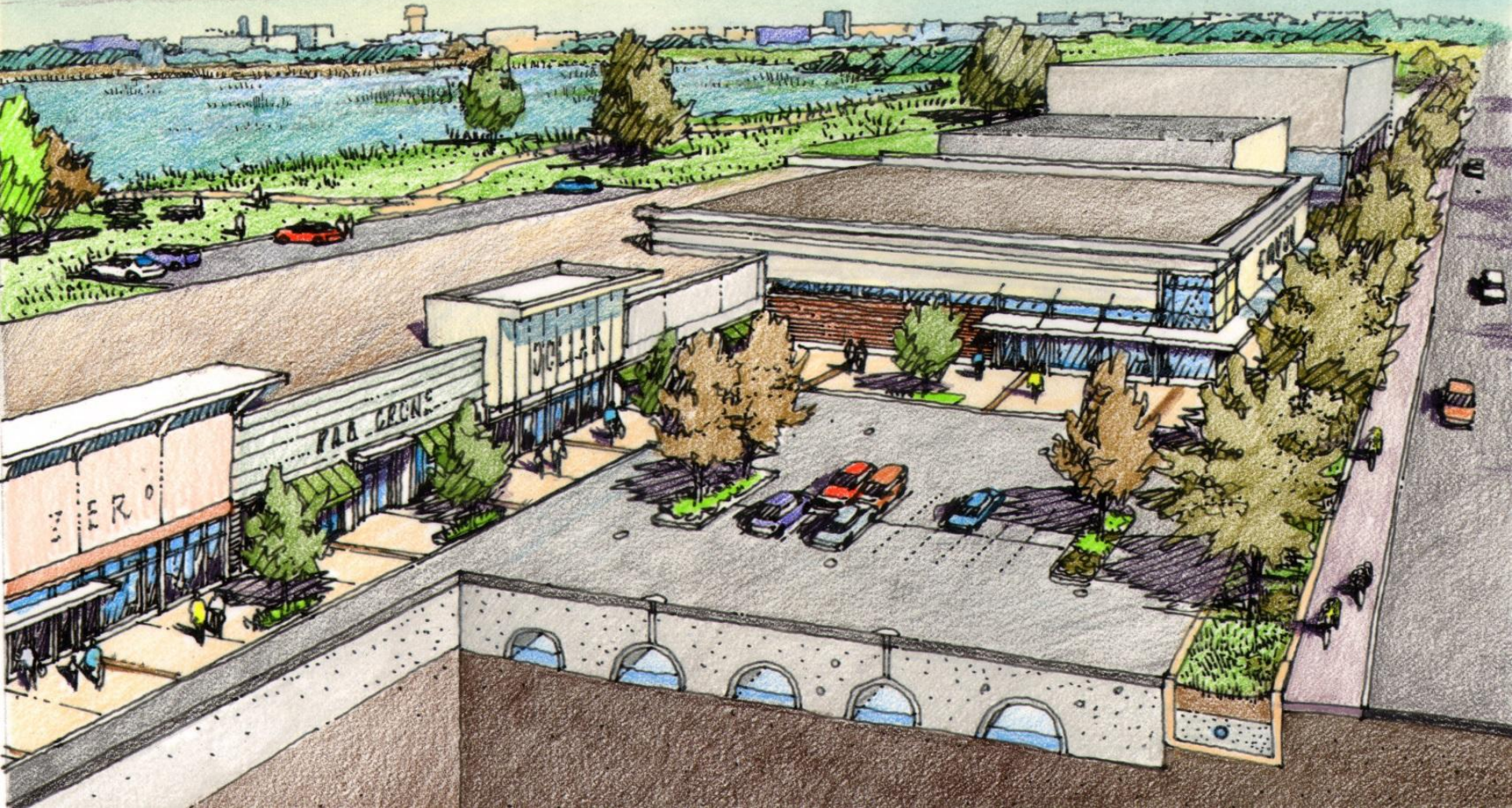


Residential Resilience Program

- Demonstration area-wide program to alleviate flooding for low-and-medium income homeowners
- Planned for up to 500 properties
- Interior improvements: overhead sewers, backflow valves, basement flood proofing, sump pumps, etc.
- Exterior improvements: Downspout disconnections, rain barrels, rain gardens, cisterns, etc.

Riverdale Subarea A –Proposed Improvements

Artist rendering of public park, constructed wetlands and commercial redevelopment possibilities at northwest corner of Halsted and 138th



Partnering lessons learned

- Stormwater management and economic development
- Addressing flooding issues can improve communities in other aspects
- How stormwater projects can also serve as community amenities
- Finding partners with intersecting goals

Building strong partnerships

- Understanding partner roles and responsibilities
 - Share your programmatic information
 - Share your areas of expertise
 - Share your limitations
- 3 Levels of Partnership
 - Cooperation
 - Coordination
 - Collaboration
- Most successful partnerships provide multiple benefits

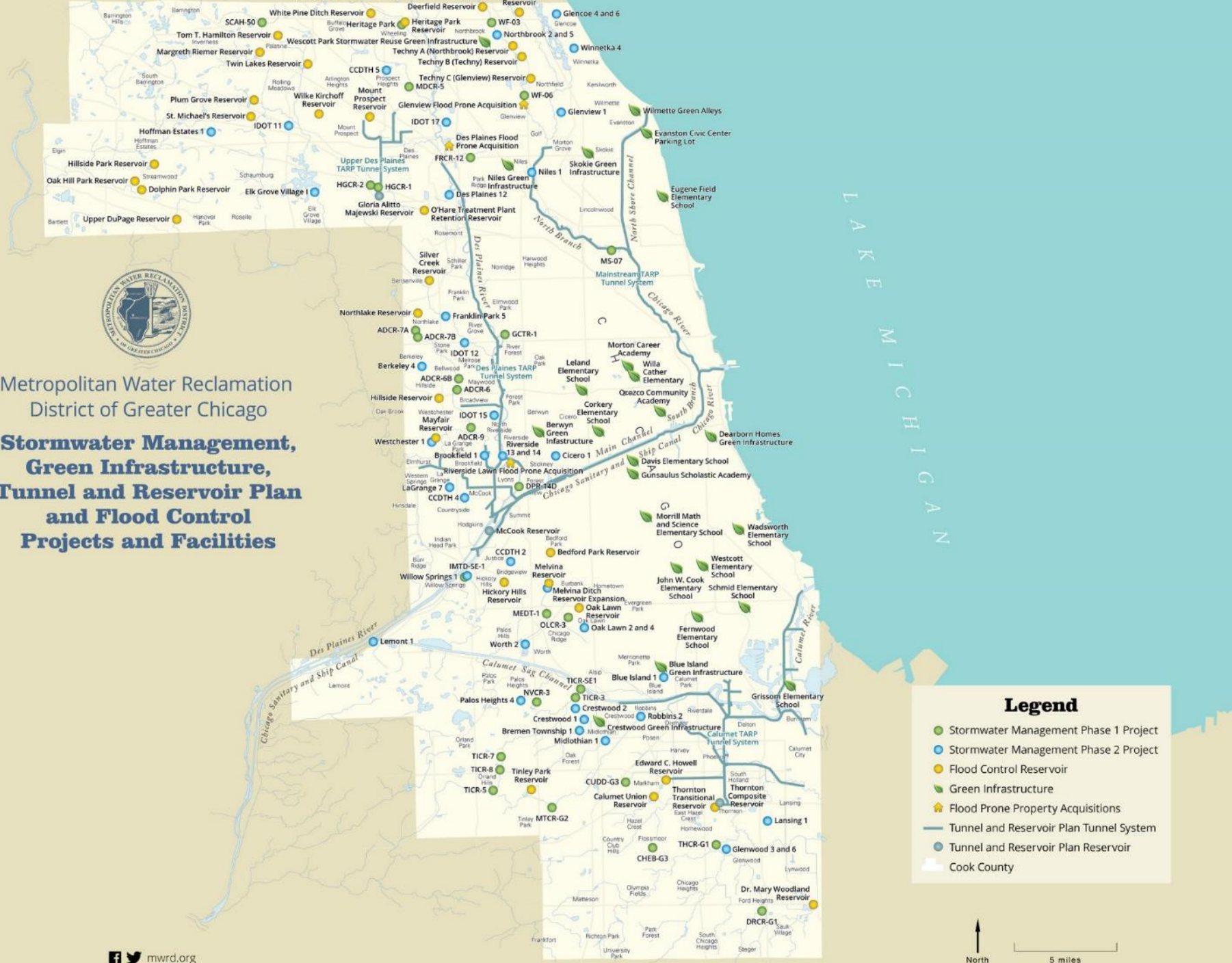
Metropolitan Water Reclamation
District of Greater Chicago

Stormwater Management, Green Infrastructure, Tunnel and Reservoir Plan and Flood Control Projects and Facilities

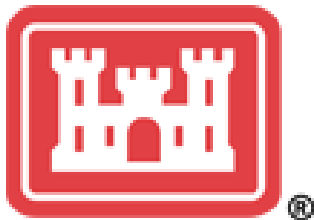


Legend

- Stormwater Management Phase 1 Project
- Stormwater Management Phase 2 Project
- Flood Control Reservoir
- Green Infrastructure
- Flood Prone Property Acquisitions
- Tunnel and Reservoir Plan Tunnel System
- Tunnel and Reservoir Plan Reservoir
- Cook County



Active Partnerships



City of Chicago
Department of Water Management



IDOT



IDNR



Thank you!

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