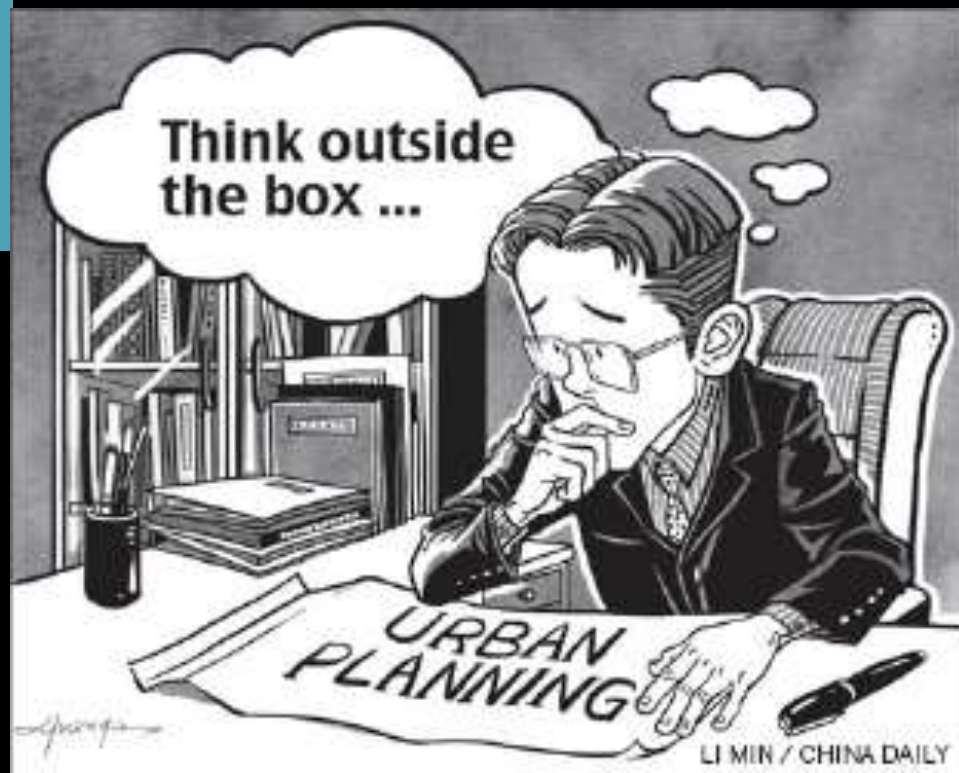


A Partnership: Land Use Planning and Stormwater Management







**Corner of Eureka Avenue and
Palmetto Street
July 2015 storm event**

**Corner of Broad Street and
Terrace Avenue
June 2015 Rain Event**



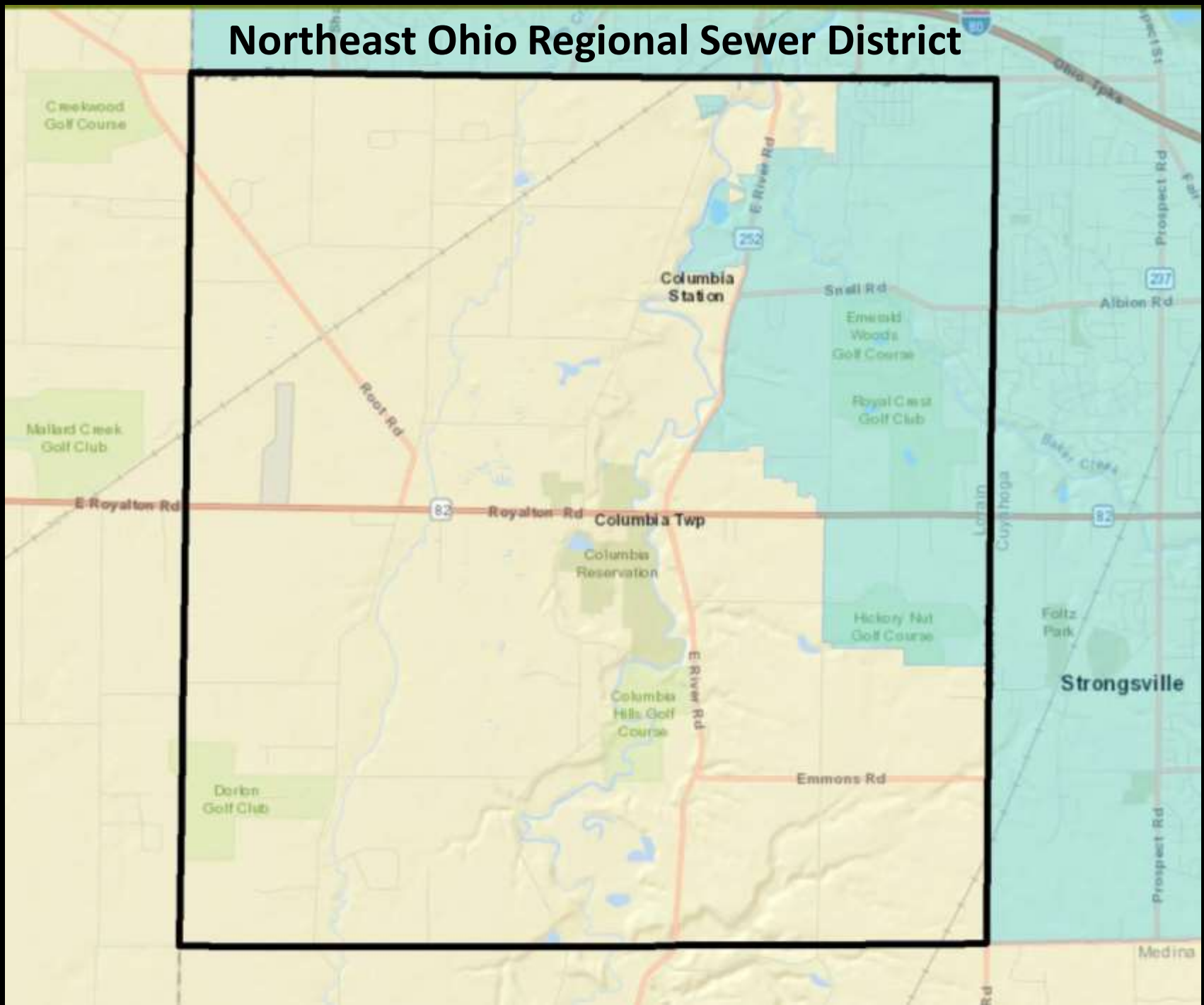
Land Use Plan

Storm Water
Management
Plan

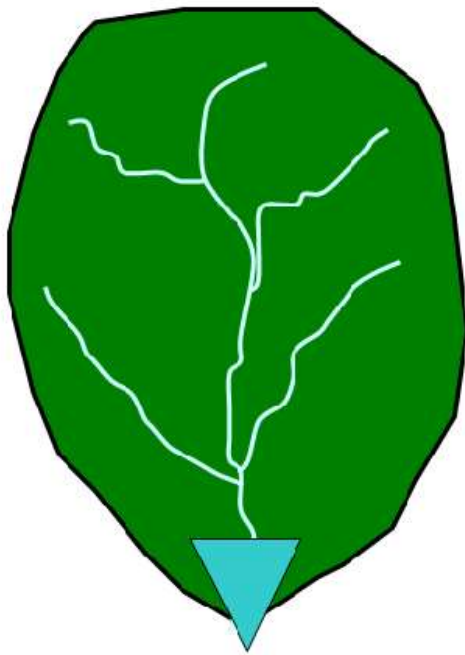


Site Plans

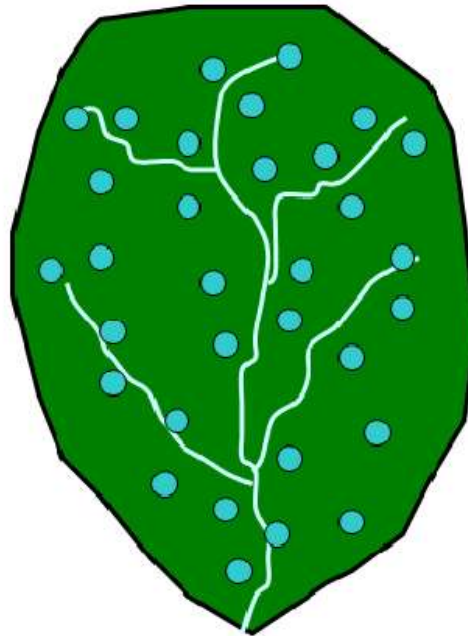
Northeast Ohio Regional Sewer District



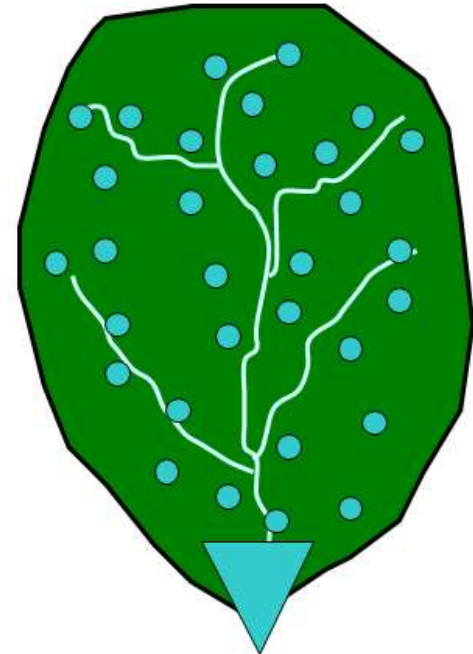
stormwater controls



**Traditional
Regional
Technique**



**Distributed
Stormwater
Features**



**Integrated
Stormwater
Controls**

This map illustrates the land use designations for the Elyria-Twinsburg area. The map is color-coded to show different types of development: green for Low Density Residential, yellow for Medium Density Residential, light green for High Density Residential, orange for Mixed Use, red for Commercial, purple for Industrial, and blue for Open Space. Major roads and local streets are labeled throughout the map. Water features, including Willow Creek and Elyria Creek, are depicted in blue. A legend in the bottom right corner provides the key for the colors, and a scale bar in the bottom left corner indicates distances in feet (0, 1,750, 3,500).



Columbia Township Land Use Plan – *incorporated Stormwater Management in the plan*

Goals and Objectives –

- *Encourage the protection and preservation of all environmentally sensitive areas of Columbia Township*

Identified Densities for Land Use Types -

- *Encourage setbacks from floodplains and riparian corridors should be used to encourage long term environmental stormwater and aesthetic benefits*

Stormwater Management Guidelines in Appendix –

- *Riparian Setback and Compensatory Storage*
- *Stormwater Management Methods*

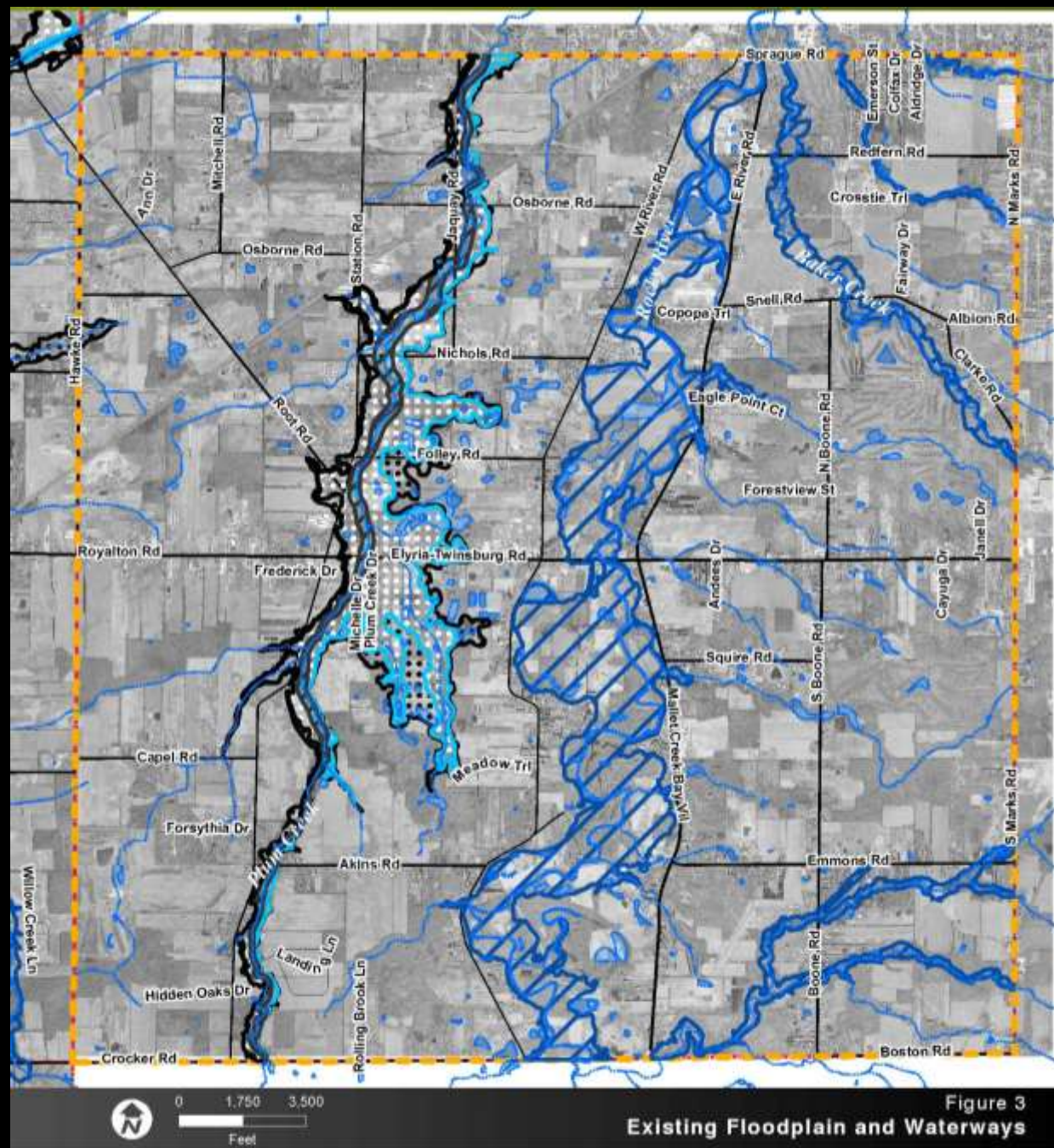


Figure 3
Existing Floodplain and Waterways



ms consultants, inc.
engineers, architects, planners

Waterways
Lakes and Ponds

ZONE A 100 YEAR FLOODPLAIN
(No Base Flood Elevations Determined)
ZONE AE 100 YEAR FLOODPLAIN

ZONE AE 100 YEAR FLOODWAY
ZONE X 500 YEAR FLOODPLAIN



green infrastructure



AFTER



BEFORE



GI Opportunities



Alley
Before



Bio-
retention
Before



Alley
After



Bio-
retention
After

GI Opportunities



Vacant Land
Before



Vacant Land
Conversion
After



Pervious
Sidewalks
Before



Pervious
Sidewalks
After

A Partnership: Land Use Planning and Stormwater Management

