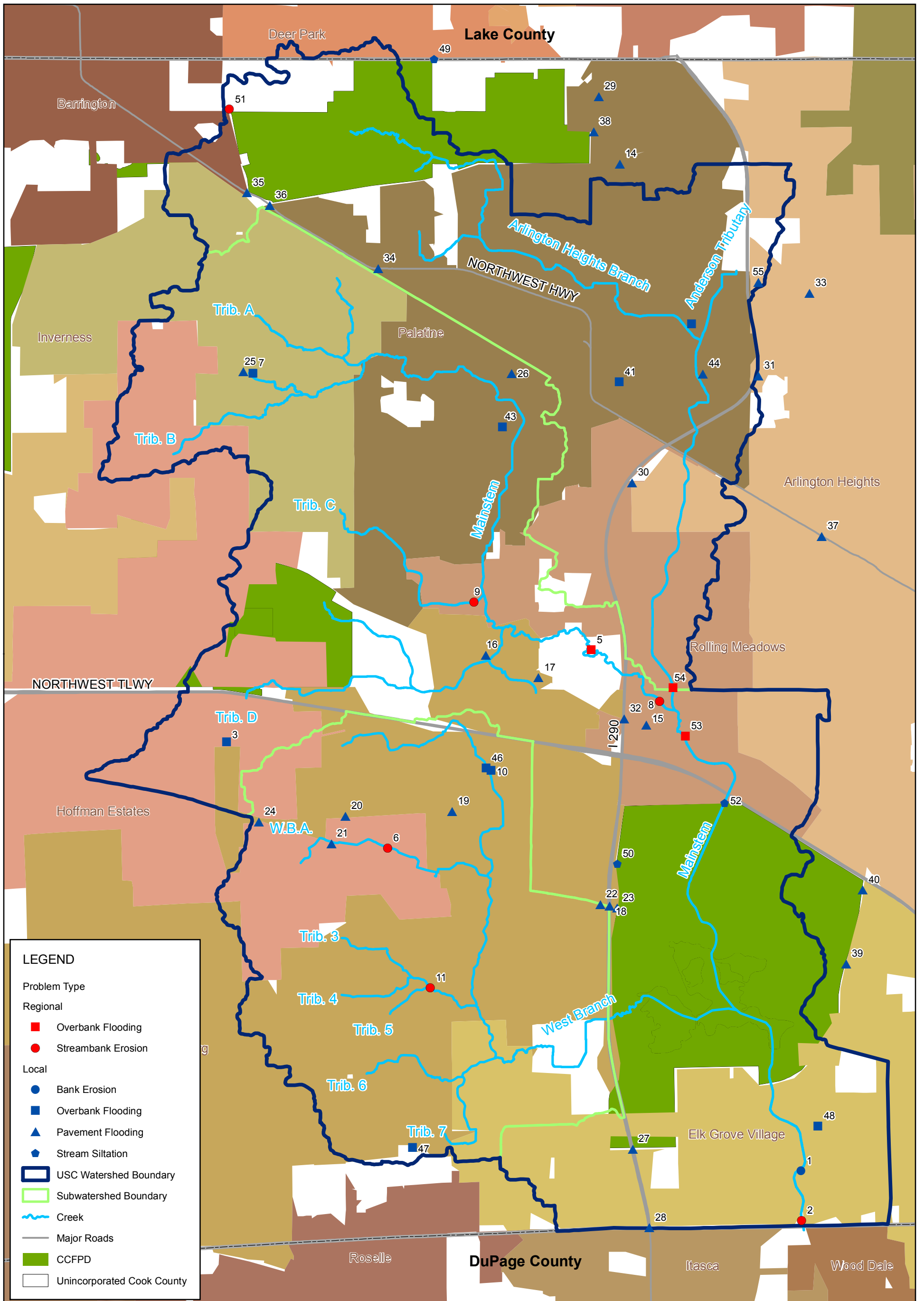


Figure 1
Upper Salt Creek Watershed Overview



LEGEND

Problem Type

Regional

- Overbank Flooding
- Streambank Erosion

Local

- Bank Erosion
- Overbank Flooding
- ▲ Pavement Flooding
- ◆ Stream Siltation

[Blue Outline] USC Watershed Boundary
 [Green Outline] Subwatershed Boundary
 [Blue Line] Creek
 [Grey Line] Major Roads
 [Green Area] CCFPD
 [White Area] Unincorporated Cook County

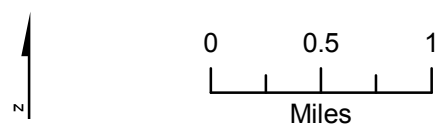
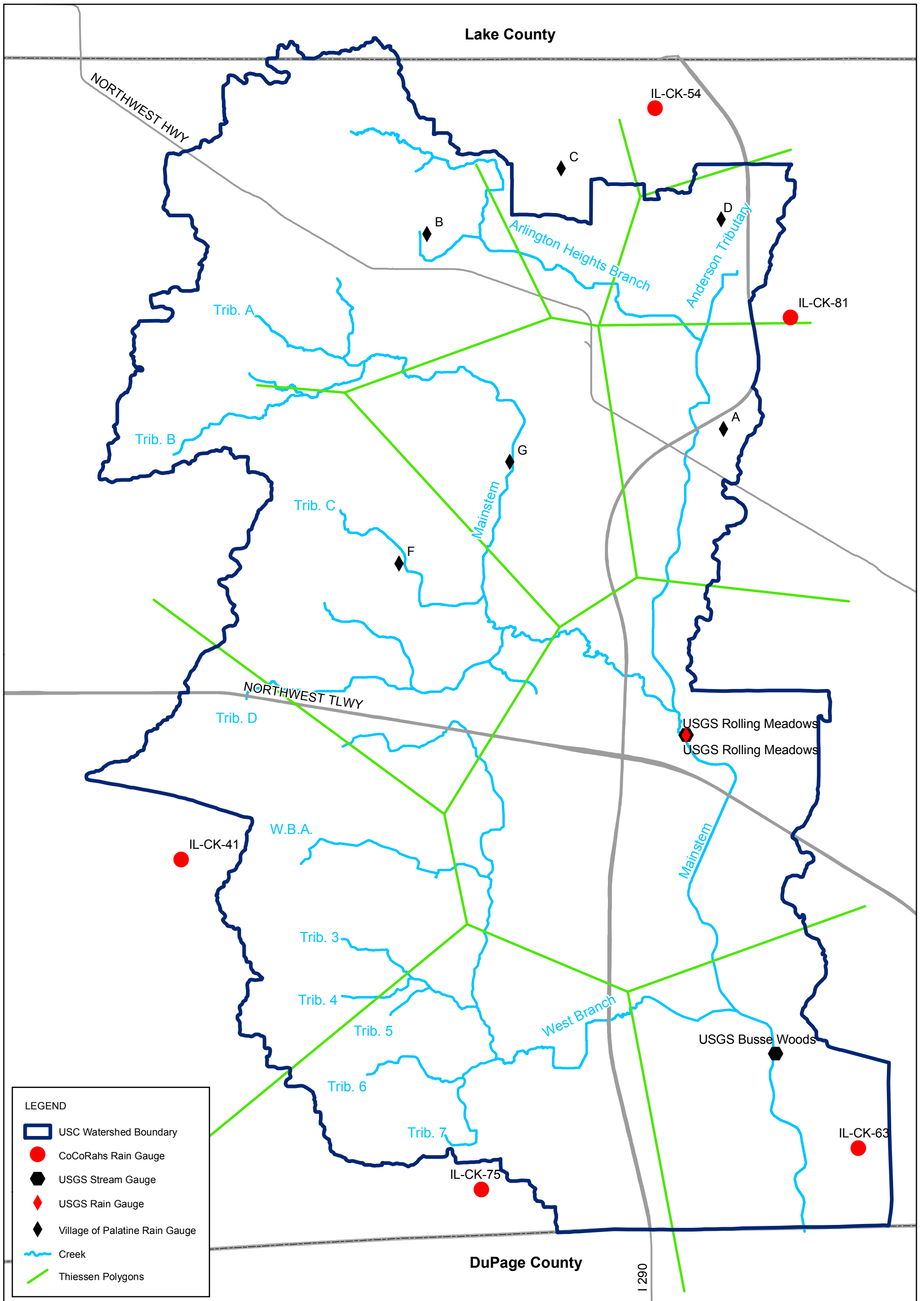


Figure 2.2.1
Upper Salt Creek Watershed Problem Area Locations



LEGEND

- USC Watershed Boundary
- CoCoRaHS Rain Gauge
- USGS Stream Gauge
- USGS Rain Gauge
- Village of Palatine Rain Gauge
- Creek
- Thiessen Polygons

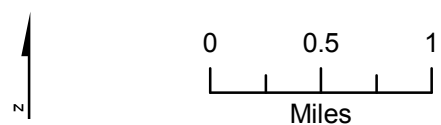


Figure 2.3.1
Upper Salt Creek Watershed Monitoring Locations

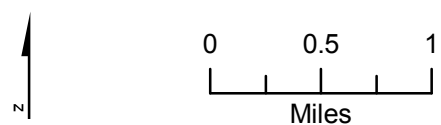
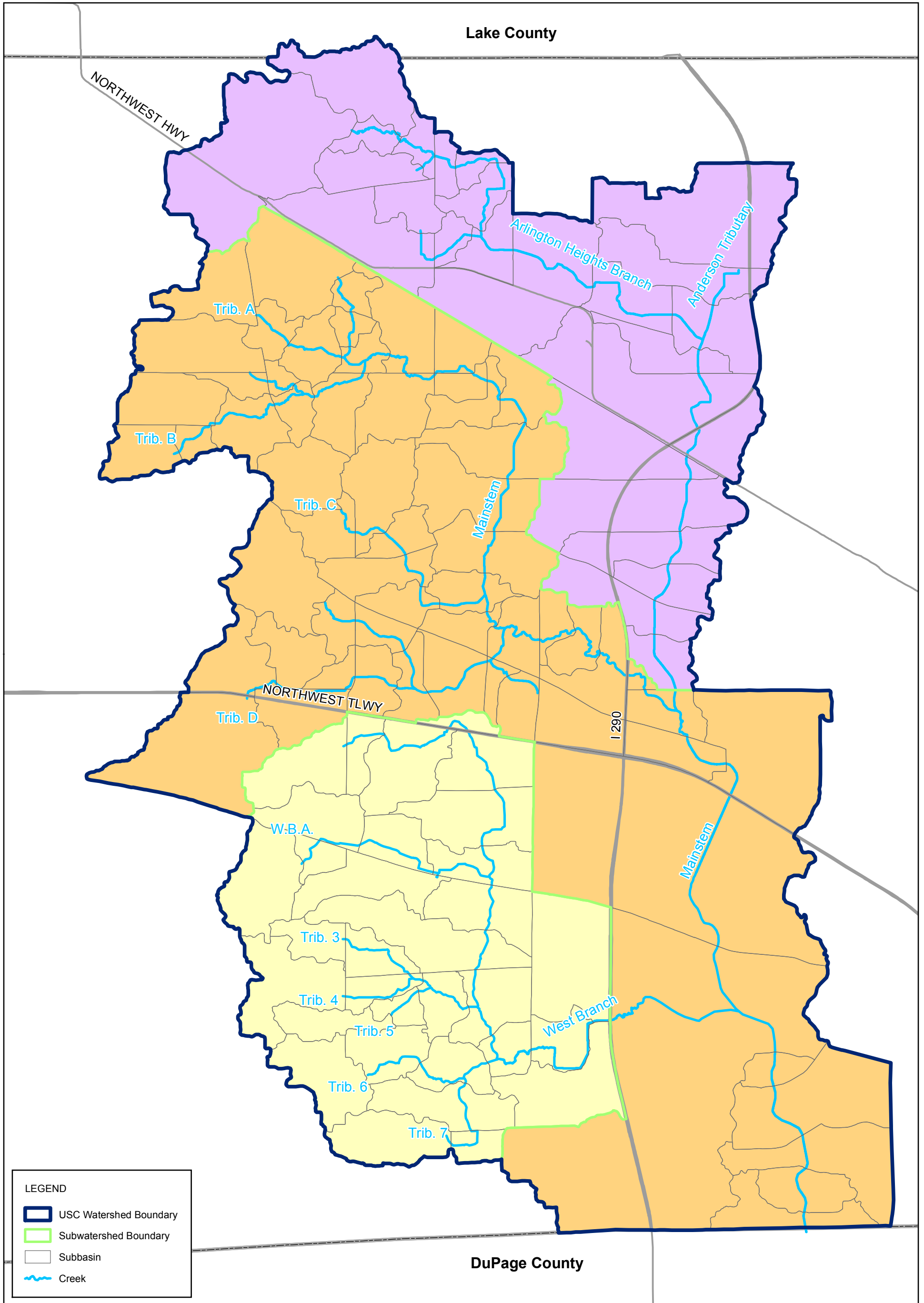


Figure 2.3.2
Upper Salt Creek Watershed Subwatersheds

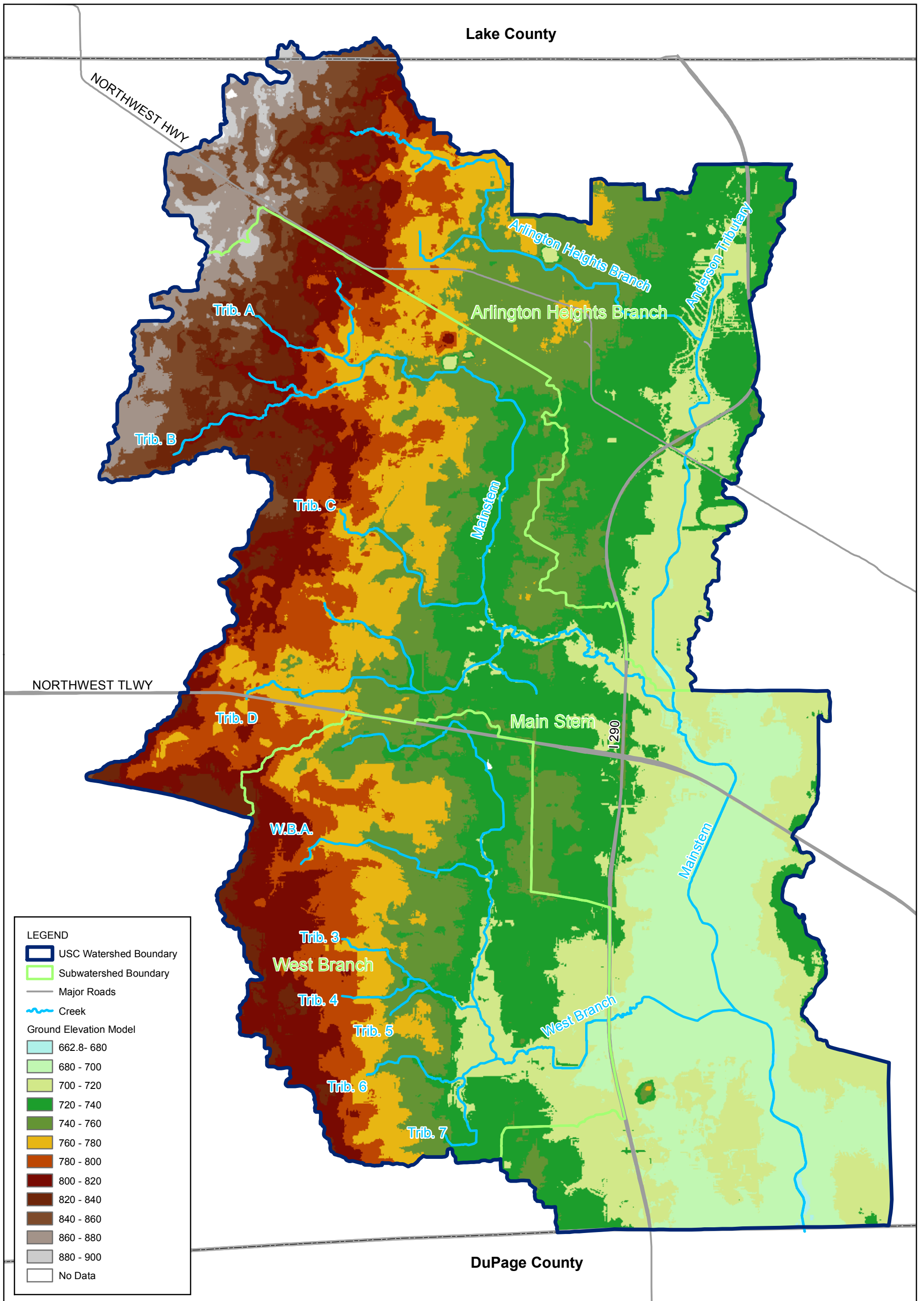


Figure 2.3.3
Upper Salt Creek Watershed Topography and Drainage Network

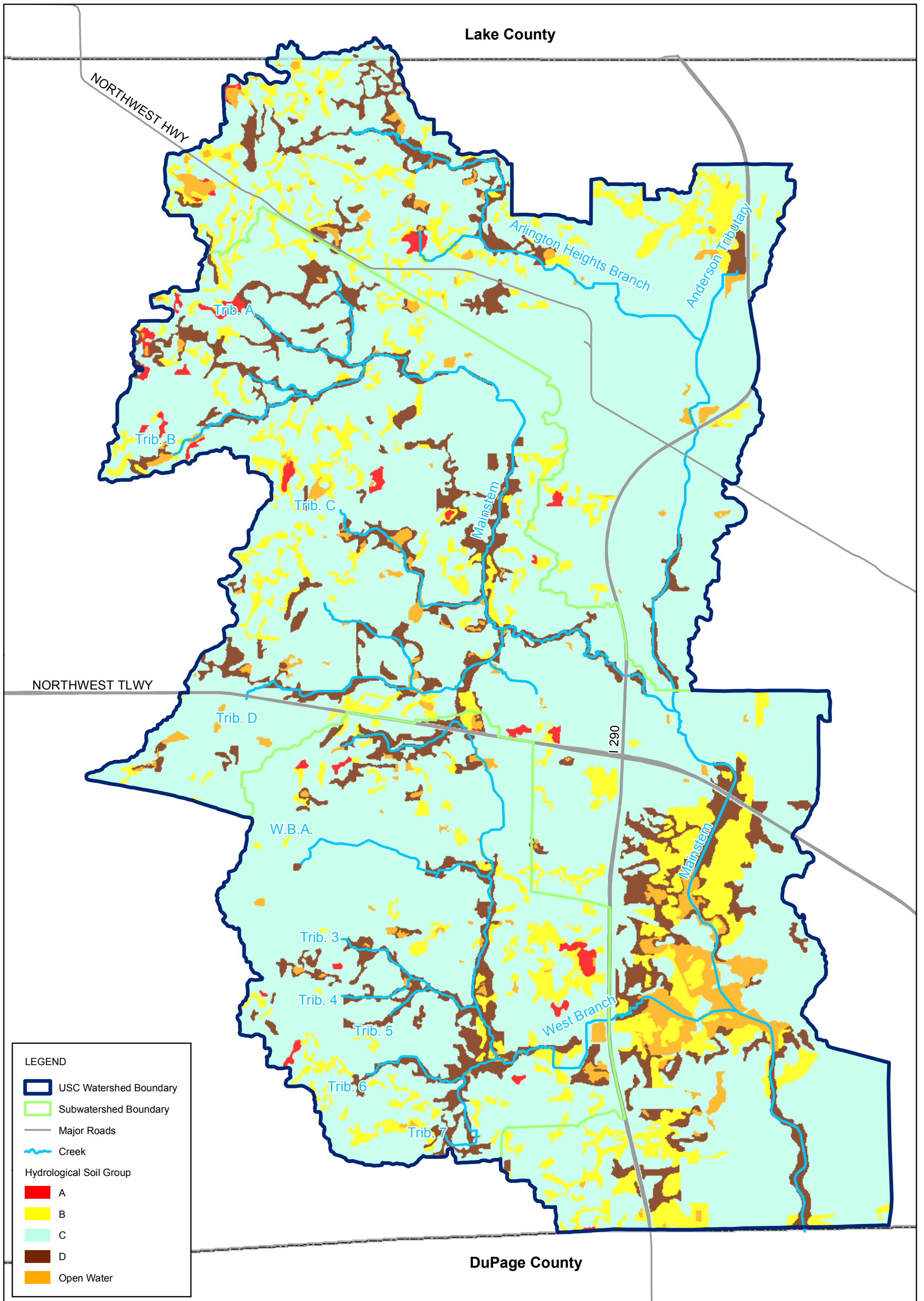


Figure 2.3.4
Upper Salt Creek Watershed Hydrologic Soil Groups

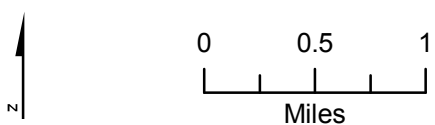
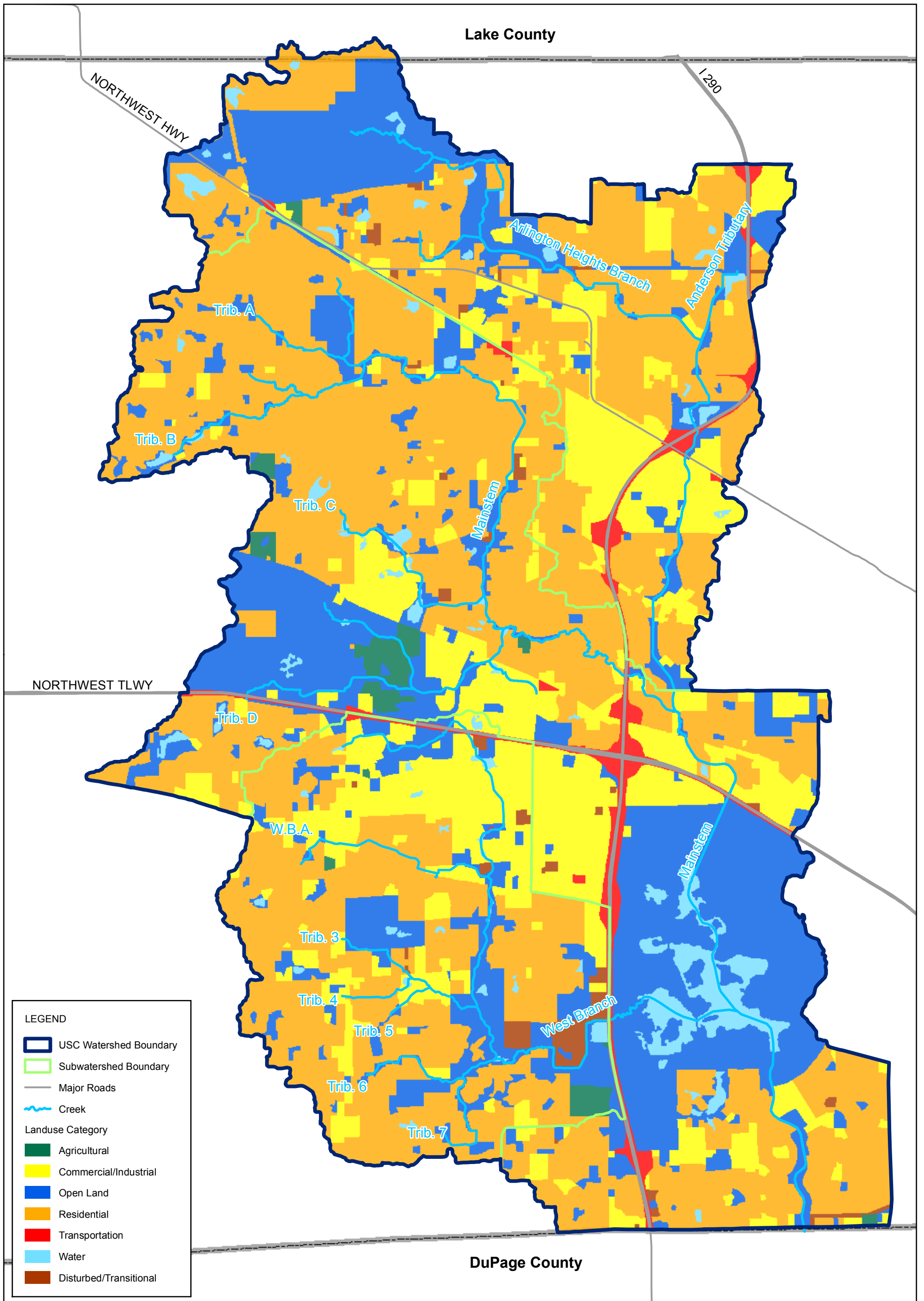
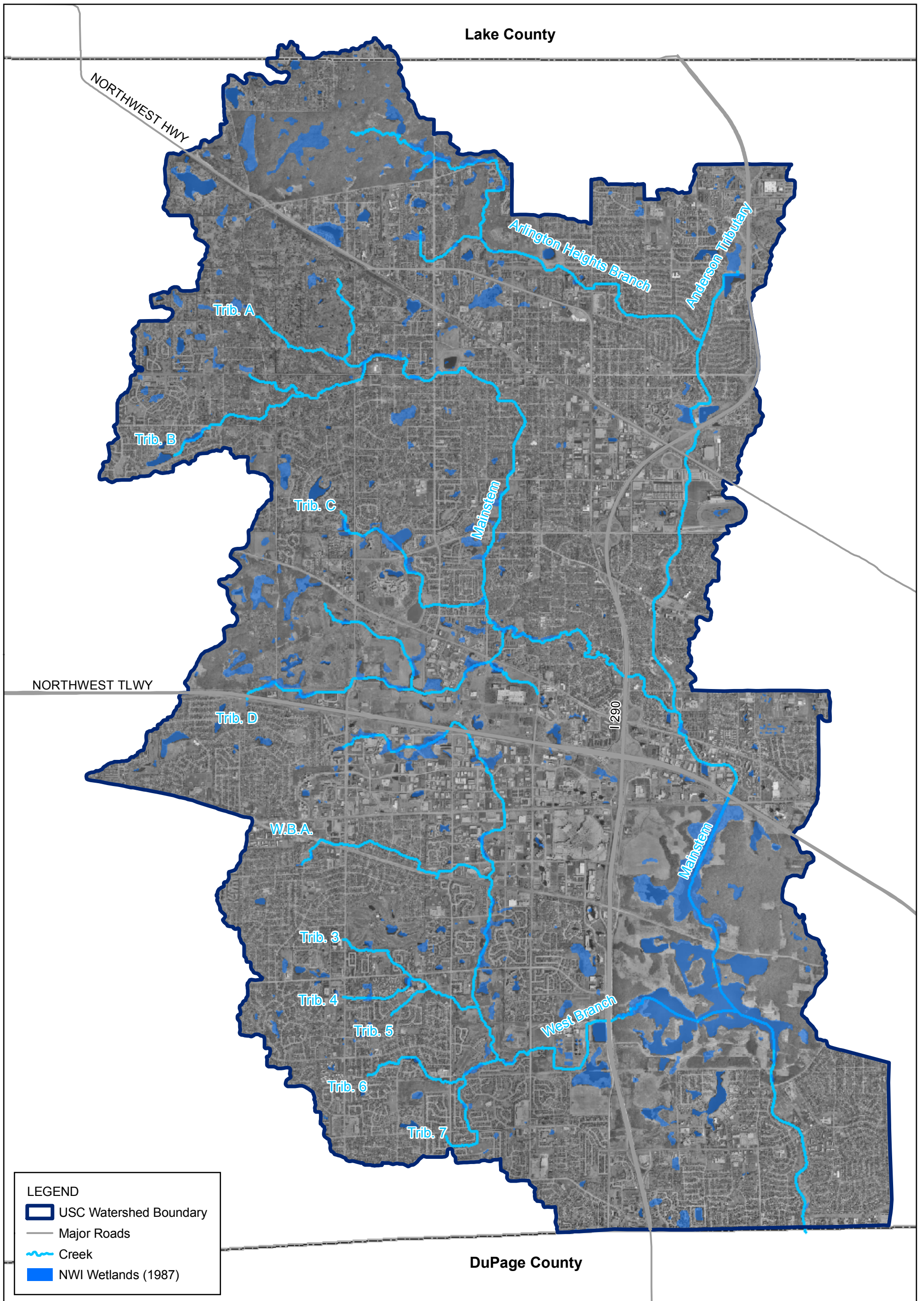


Figure 2.3.5
Upper Salt Creek Watershed Landuse



Lake County

NORTHWEST HWY

Arlington Heights Branch

Anderson Tributary

Trib. A

Trib. B

Trib. C

Mainstem

NORTHWEST TLWY

Trib. D

I-290

W.B.A.

Mainstem

Trib. 3

Trib. 4

Trib. 5

West Branch

Trib. 6

Trib. 7

DuPage County

LEGEND

-  USC Watershed Boundary
-  Major Roads
-  Creek
-  NWI Wetlands (1987)

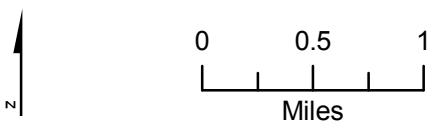
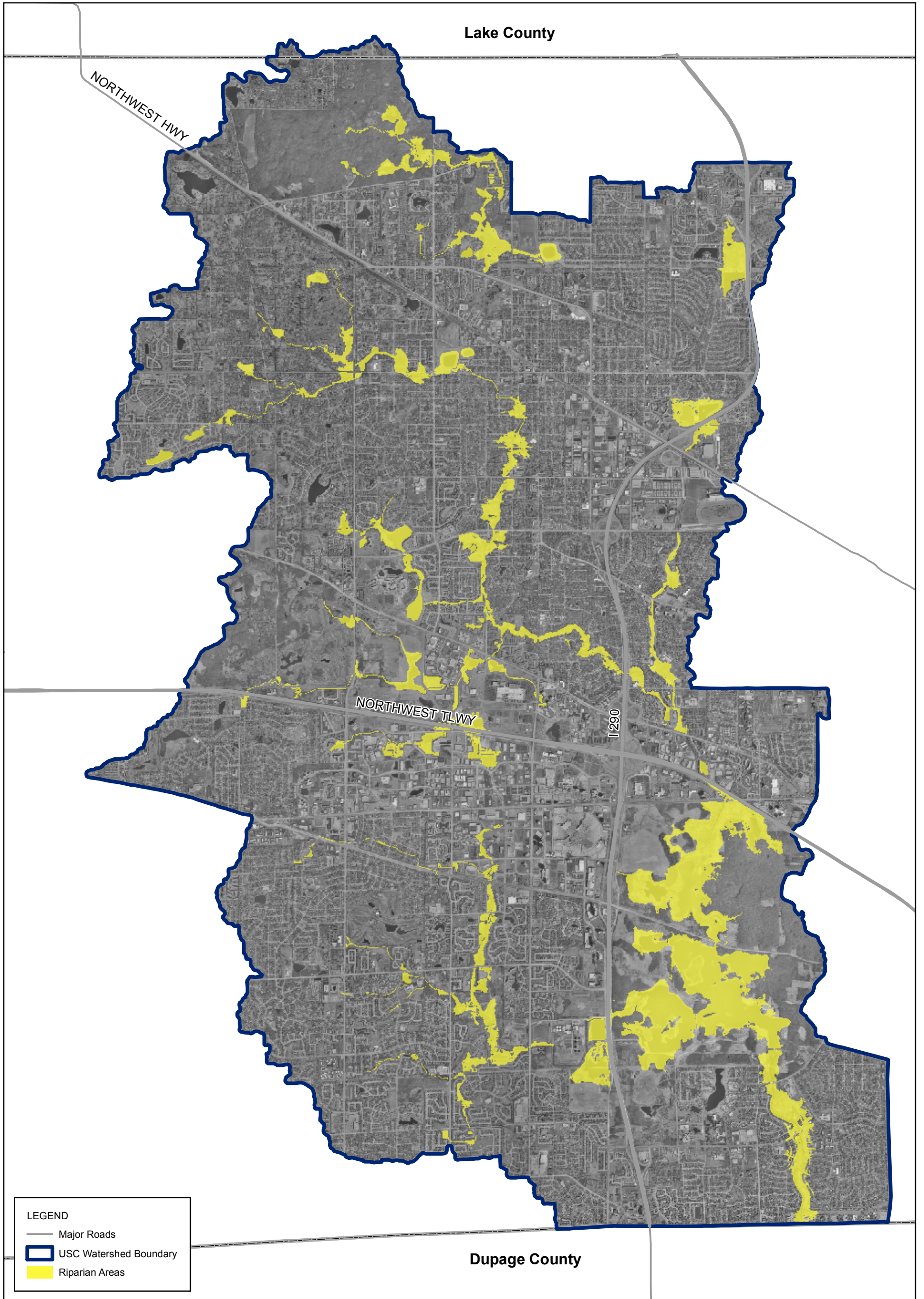


Figure 2.3.8.1
Upper Salt Creek Watershed National Wetland Inventory



Lake County

NORTHWEST HWY

NORTHWEST TLWY

I 290

Dupage County

LEGEND

- Major Roads
- USC Watershed Boundary
- Riparian Areas

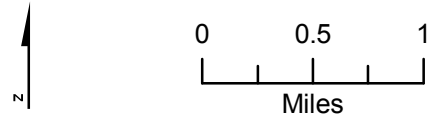
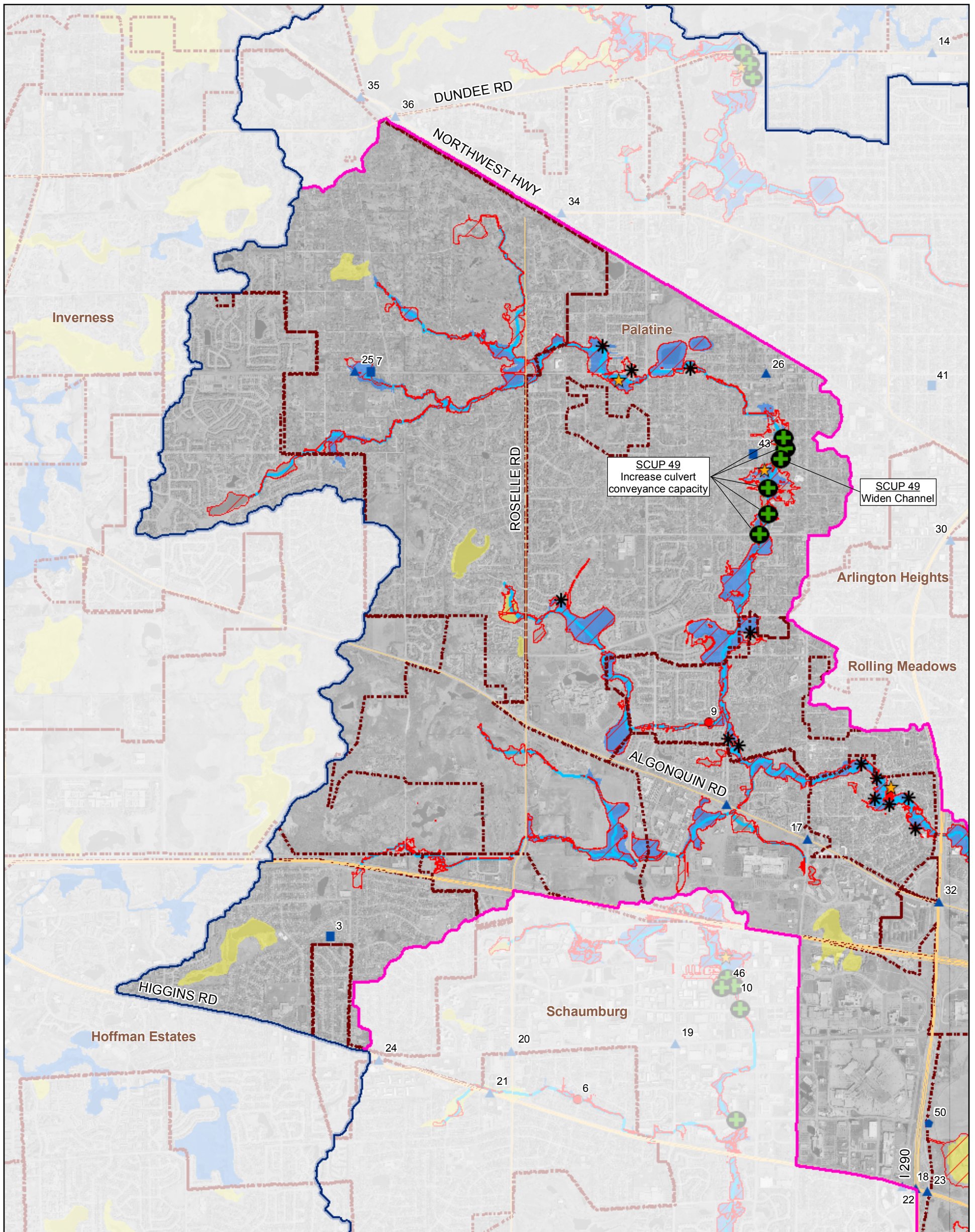


Figure 2.3.8.2
Upper Salt Creek Watershed Riparian Areas

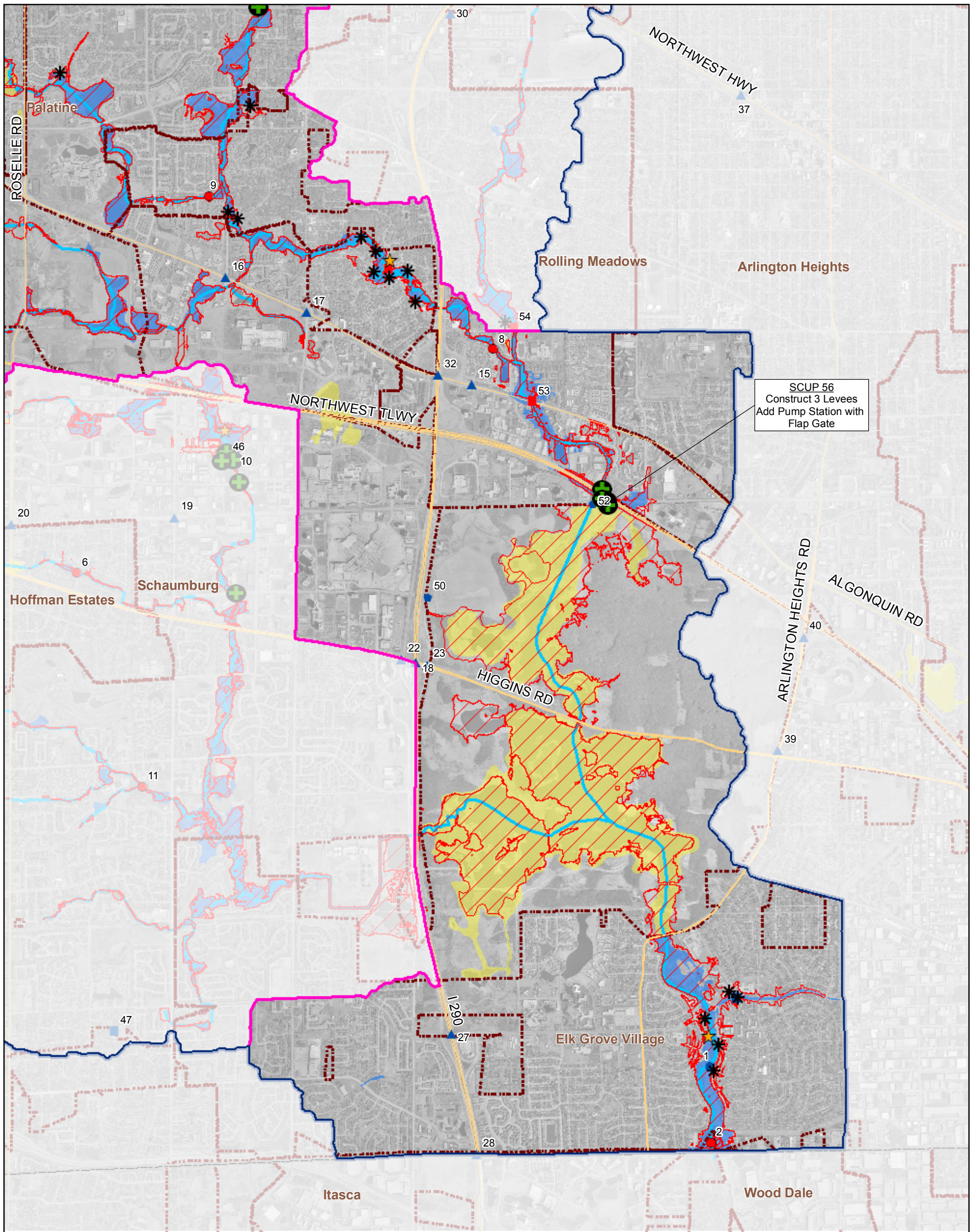




LEGEND			
Problem Type	Local	★ Problem Area Identified Through Modeling	FEMA Floodplain
Regional	● Bank Erosion	⊕ Alternative Location	■ Zone A, AH and AO
■ Overbank Flooding	■ Overbank Flooding	* Candidate Structure(s) for Floodproofing/Acquisition	■ AE
● Streambank Erosion	▲ Pavement Flooding	▭ Modeled 100-year Inundation Boundary	■ USC Watershed Boundary
	● Stream Siltation		■ Subwatershed Boundary
			~ Creek
			— Major Roads
			▭ Municipality Boundary
			▭ Cook County Boundary

Figure 3.1.1a
Tributary Overview: USC North Mainstem
Upper Salt Creek Detailed Watershed Plan

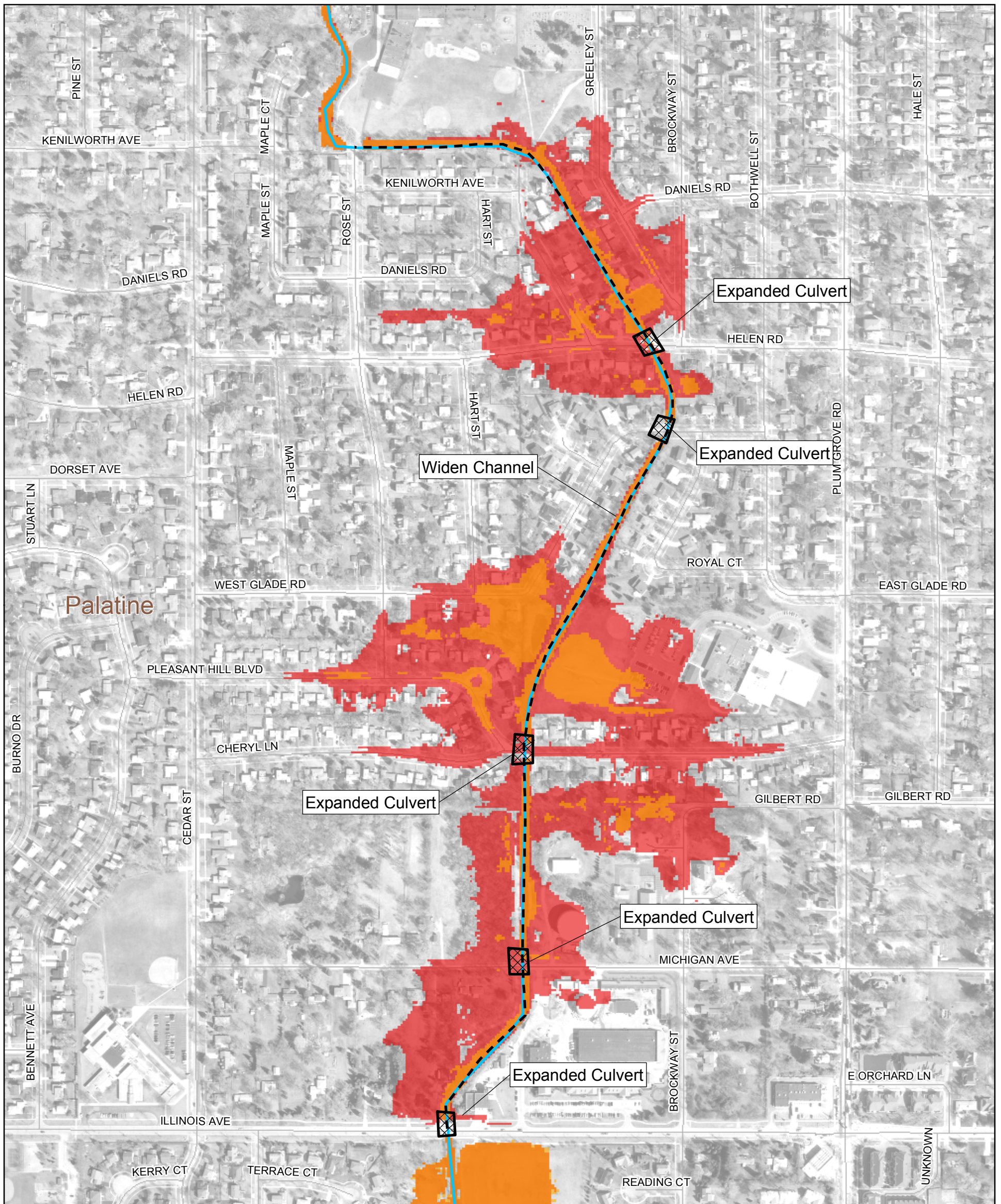




SCUP 56
Construct 3 Levees
Add Pump Station with
Flap Gate

LEGEND			
Problem Type	Local	★ Problem Area Identified Through Modeling	FEMA Floodplain
Regional	● Bank Erosion	⊕ Alternative Location	Zone A, AH and AO
■ Overbank Flooding	■ Overbank Flooding	✱ Candidate Structure(s) for Floodproofing/Acquisition	AE
● Streambank Erosion	▲ Pavement Flooding	▨ Modeled 100-year Inundation Boundary	USC Watershed Boundary
	● Stream Siltation		Subwatershed Boundary
			— Creek
			— Major Roads
			▭ Municipality Boundary
			▭ Cook County Boundary

Figure 3.1.1b
Tributary Overview: USC South Main Stem
Upper Salt Creek Detailed Watershed Plan



Subwatershed: Main Stem

Alternative: SCUP-49











Alternative Description:

Widen channel from Rose Street to Illinois Avenue and increase conveyance capacity of five bridges.

Conceptual Level Cost: \$11,030,000 Benefits: \$1,479,000

B/C Ratio: 0.13

LEGEND

-  Project Alternative Locations
-  Channel Improvements
-  100-year Inundation Area With Project
-  100-year Inundation Area Without Project
-  USC Watershed Boundary
- Roadway**
-  Road
-  Major Road
-  Municipality Boundary
-  Cook County Boundary
-  Creek

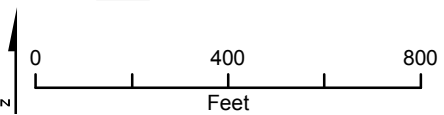
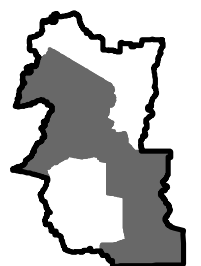
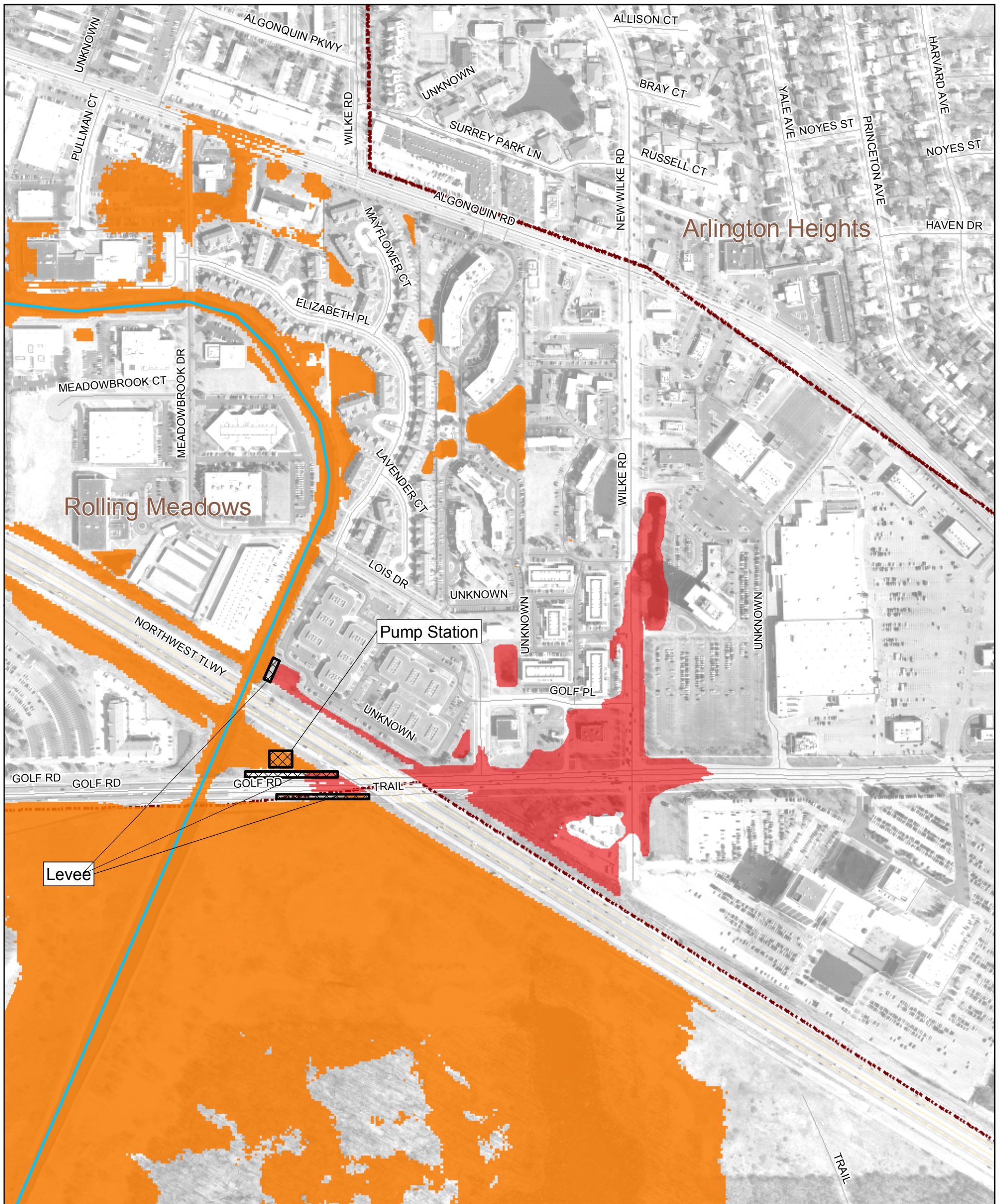


Figure 3.1.2
 USC Main Stem
 Alternative SCUP-49
 Existing and Alternative Inundation Areas
 Upper Salt Creek Detailed Watershed Plan





Subwatershed: Main Stem

Alternative: SCUP-56











Alternative Description:

Install pumping station with flap gate and construct three levees.

Conceptual Level Cost: \$1,403,000 Benefits: \$166,000

B/C Ratio: 0.12

LEGEND

-  Project Alternative Locations
-  Channel Improvements
-  100-year Inundation Area With Project
-  100-year Inundation Area Without Project
-  USC Watershed Boundary
- Roadway**
-  Road
-  Major Road
-  Creek
-  Municipality Boundary
-  Cook County Boundary

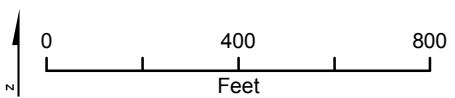


Figure 3.1.3
 USC Main Stem
 Alternative SCUP-56
 Existing and Alternative Inundation Areas
 Upper Salt Creek Detailed Watershed Plan



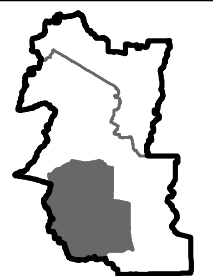
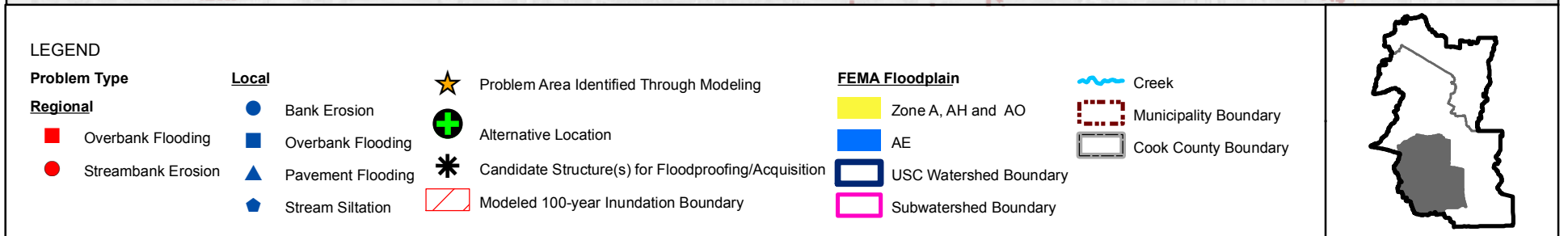
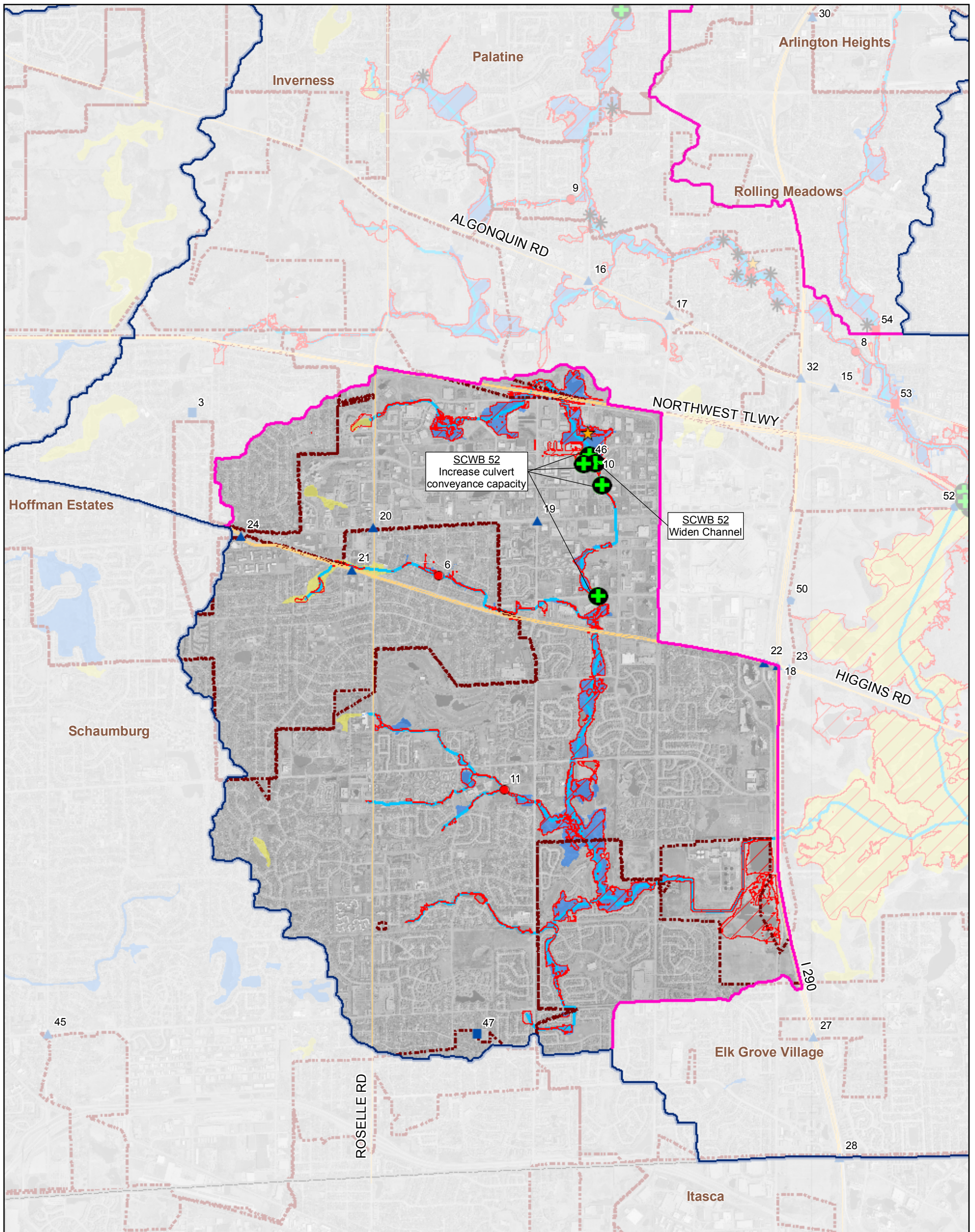
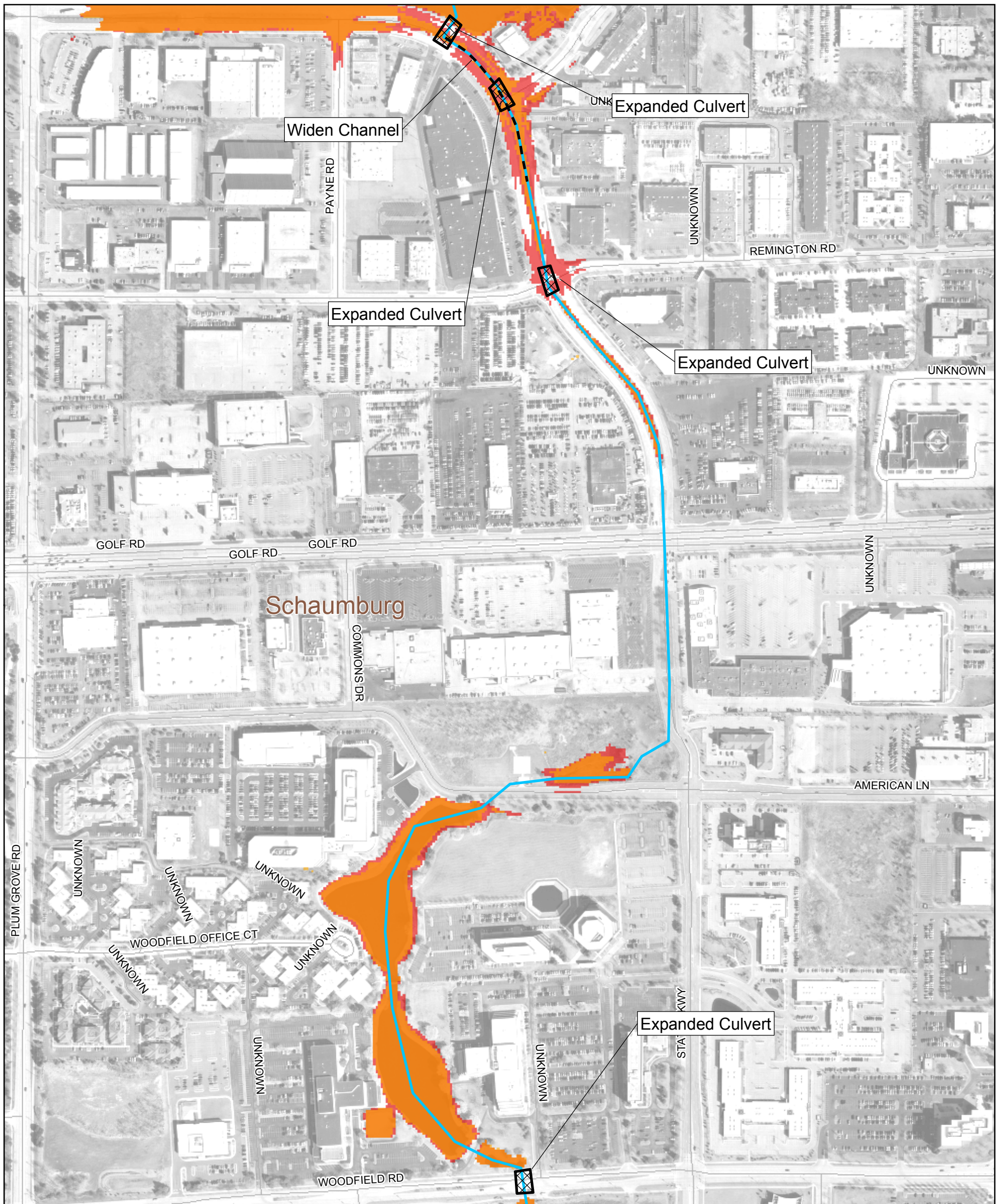


Figure 3.2.1
Tributary Overview: USC West Branch
Upper Salt Creek Detailed Watershed Plan



Subwatershed: West Branch

Alternative: SCWB-52










Alternative Description:

Lower weirs on two detention basins, increase capacity of bridge and create ditch in place of culvert.

Conceptual Level Cost: \$1,149,000 Benefits: \$305,000

B/C Ratio: 0.27

LEGEND

-  Project Alternative Locations
-  Channel Improvements
-  100-year Inundation Area With Project
-  100-year Inundation Area Without Project
-  USC Watershed Boundary
- Roadway**
-  Road
-  Major Road
-  Municipality Boundary
-  Cook County Boundary

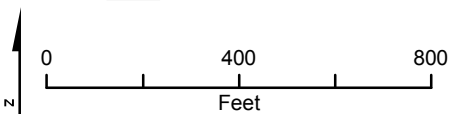
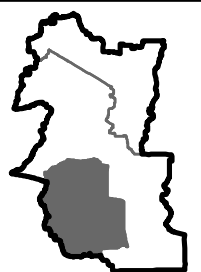


Figure 3.2.2
 USC West Branch
 Alternative SCWB-52
 Existing and Alternative Inundation Areas
 Upper Salt Creek Detailed Watershed Plan



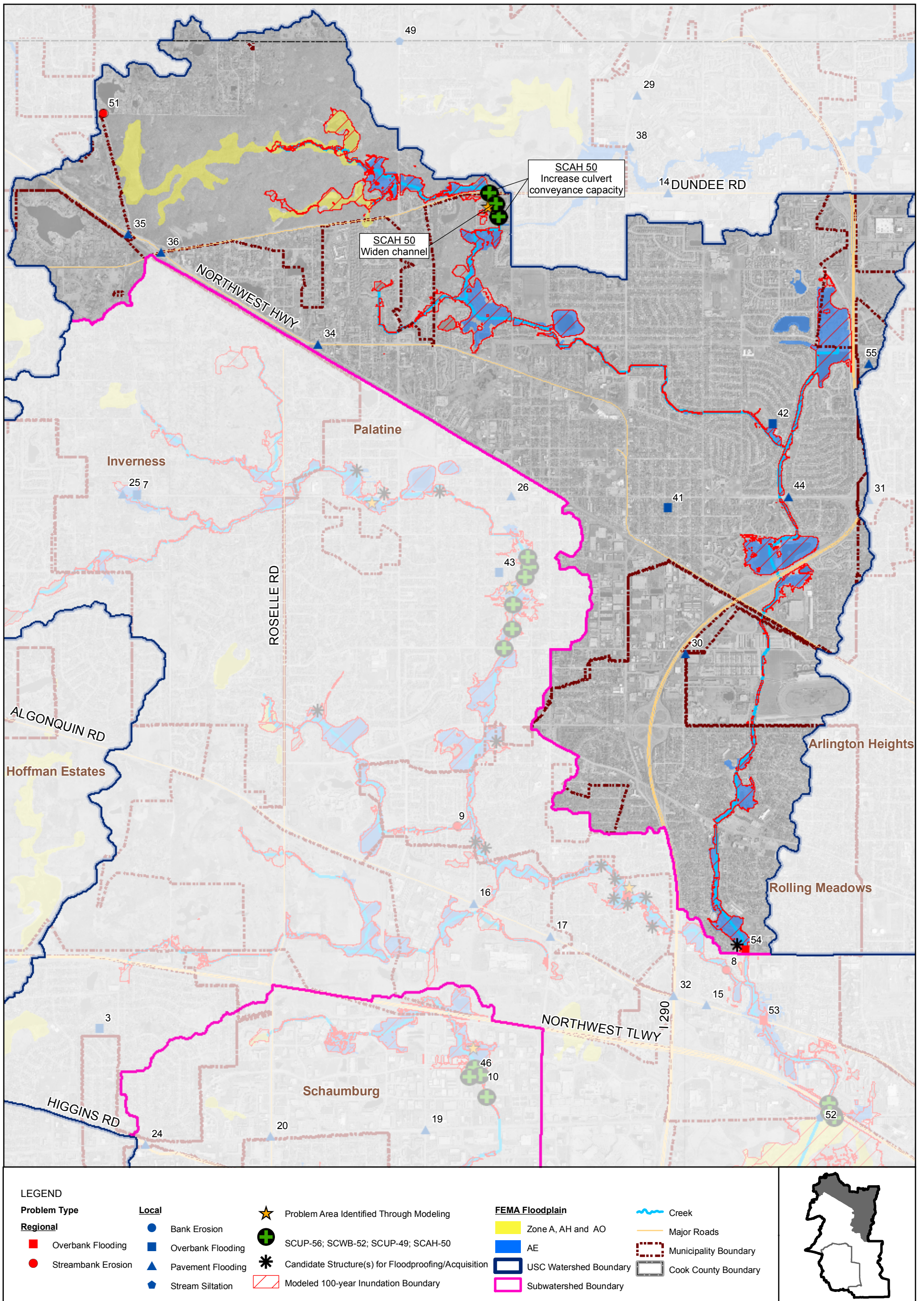
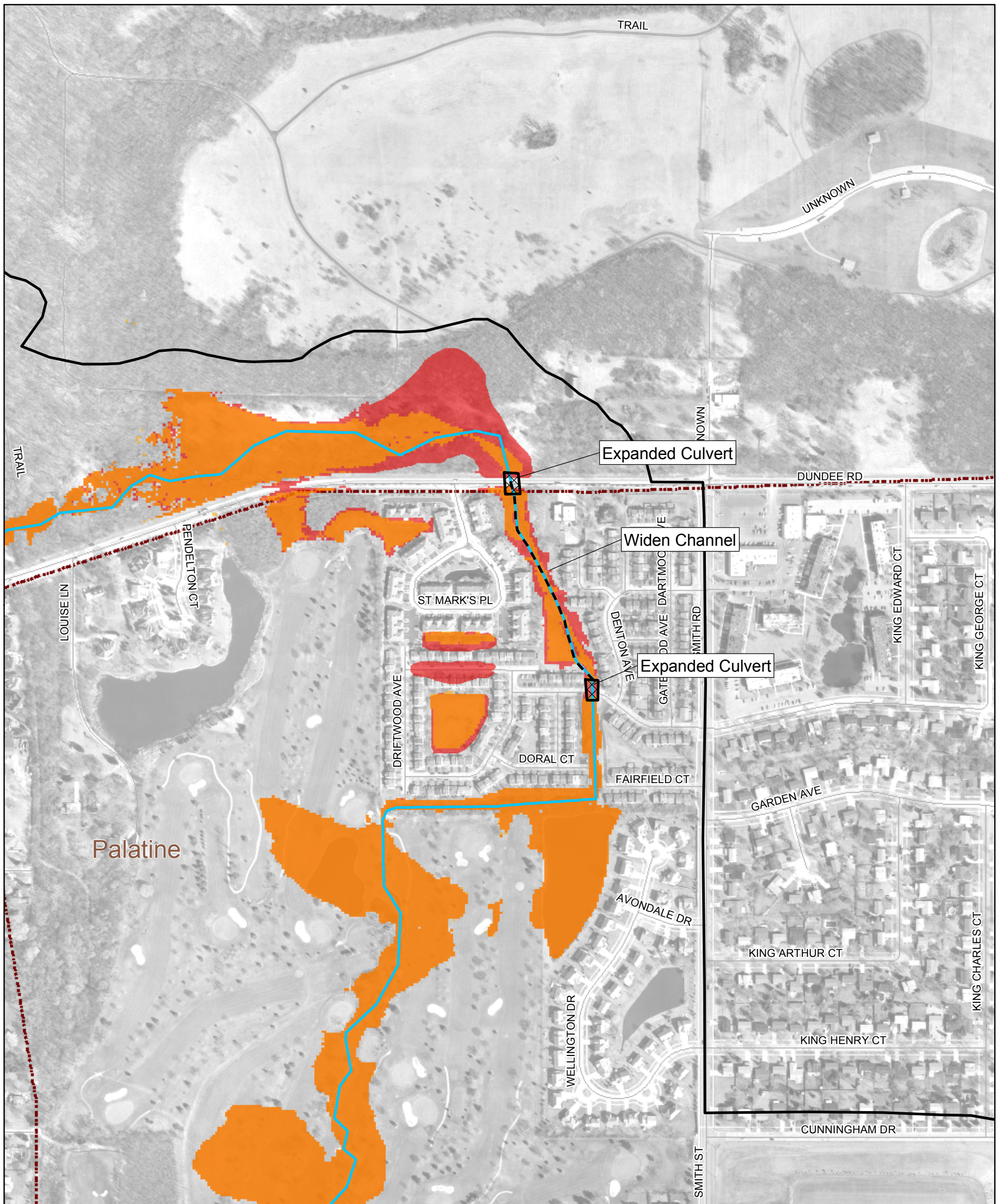


Figure 3.3.1
Tributary Overview: USC Arlington Heights Branch
Upper Salt Creek Detailed Watershed Plan





Subwatershed: Arlington Heights Branch

Alternative: SCAH-50











Alternative Description:

Widen channel between Dundee Road and Cherrywood Drive and increase the conveyance capacity of two culverts.

Conceptual Level Cost: \$1,707,000 Benefits: \$1,385,000

B/C Ratio: 0.81

LEGEND

-  Project Alternative Locations
-  Channel Improvements
-  100-year Inundation Area With Project
-  100-year Inundation Area Without Project
-  USC Watershed Boundary
- Roadway**
-  Road
-  Major Road
-  Creek
-  Municipality Boundary
-  Cook County Boundary

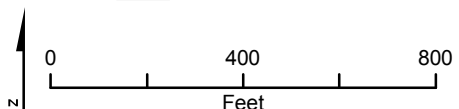


Figure 3.3.2
 USC Arlington Heights Branch
 Alternative SCAH-50
 Existing and Alternative Inundation Areas
 Upper Salt Creek Detailed Watershed Plan

