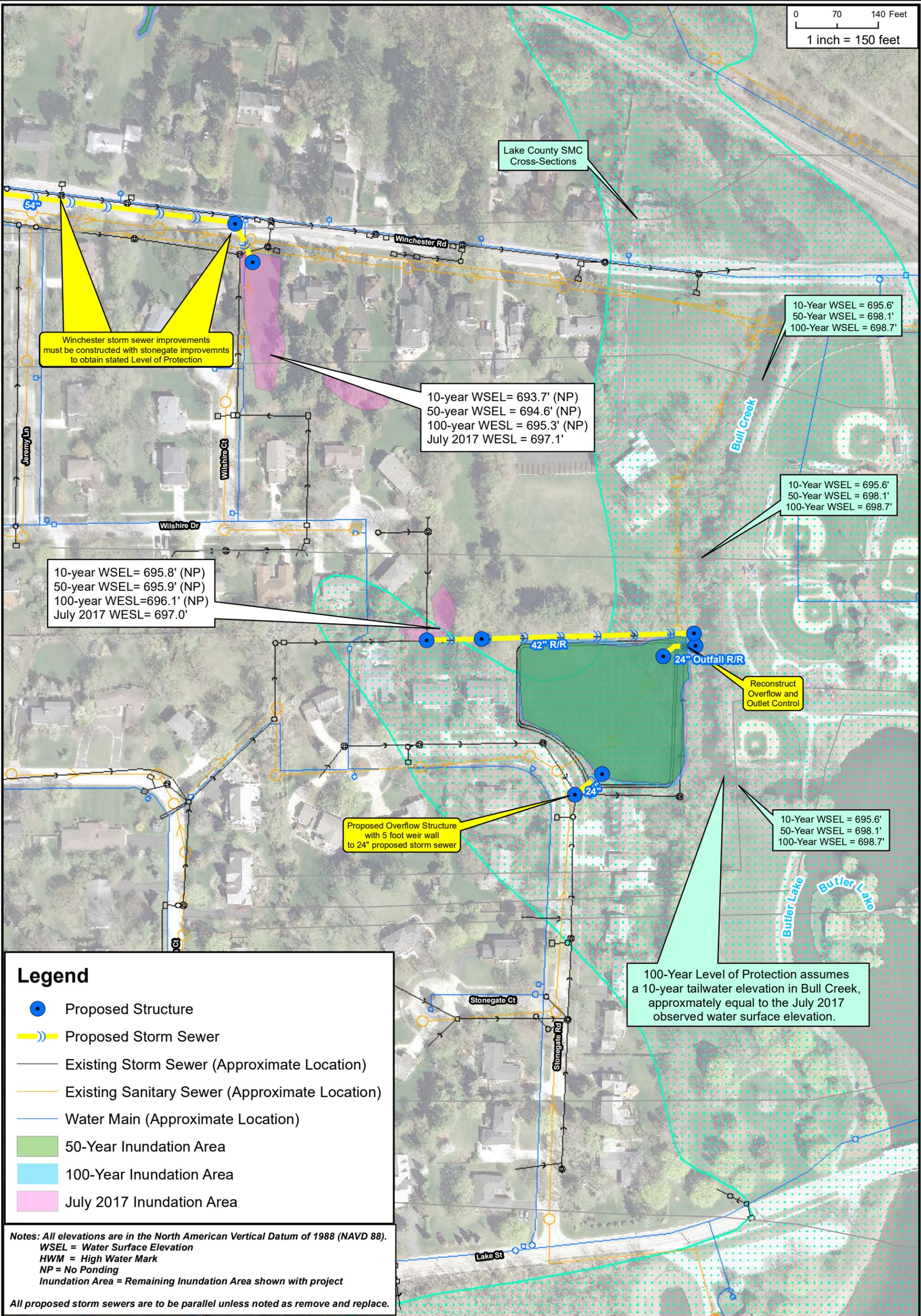


0 70 140 Feet  
1 inch = 150 feet



Winchester storm sewer improvements must be constructed with stonegate improvements to obtain stated Level of Protection

10-year WSEL= 693.7' (NP)  
50-year WSEL = 694.6' (NP)  
100-year WSEL = 695.3' (NP)  
July 2017 WSEL = 697.1'

10-Year WSEL = 695.6'  
50-Year WSEL = 698.1'  
100-Year WSEL = 698.7'

10-Year WSEL = 695.6'  
50-Year WSEL = 698.1'  
100-Year WSEL = 698.7'

10-year WSEL= 695.8' (NP)  
50-year WSEL= 695.9' (NP)  
100-year WSEL=696.1' (NP)  
July 2017 WSEL= 697.0'

Reconstruct Overflow and Outlet Control

Proposed Overflow Structure with 5 foot weir wall to 24" proposed storm sewer

10-Year WSEL = 695.6'  
50-Year WSEL = 698.1'  
100-Year WSEL = 698.7'

100-Year Level of Protection assumes a 10-year tailwater elevation in Bull Creek, approximately equal to the July 2017 observed water surface elevation.

**Legend**

- Proposed Structure
- Proposed Storm Sewer
- Existing Storm Sewer (Approximate Location)
- Existing Sanitary Sewer (Approximate Location)
- Water Main (Approximate Location)
- 50-Year Inundation Area
- 100-Year Inundation Area
- July 2017 Inundation Area

*Notes: All elevations are in the North American Vertical Datum of 1988 (NAVD 88).  
WSEL = Water Surface Elevation  
HWM = High Water Mark  
NP = No Ponding  
Inundation Area = Remaining Inundation Area shown with project*

*All proposed storm sewers are to be parallel unless noted as remove and replace.*

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CLIENT Village of Libertyville

PROJECT NO. 170001



TITLE Stonegate Proposed Drainage Improvements  
100-Year Level of Protection

DATE 7/13/18

EXHIBIT