

What is the W3QW project?



*Northwest and Westerly Interceptor Components not shown on this map

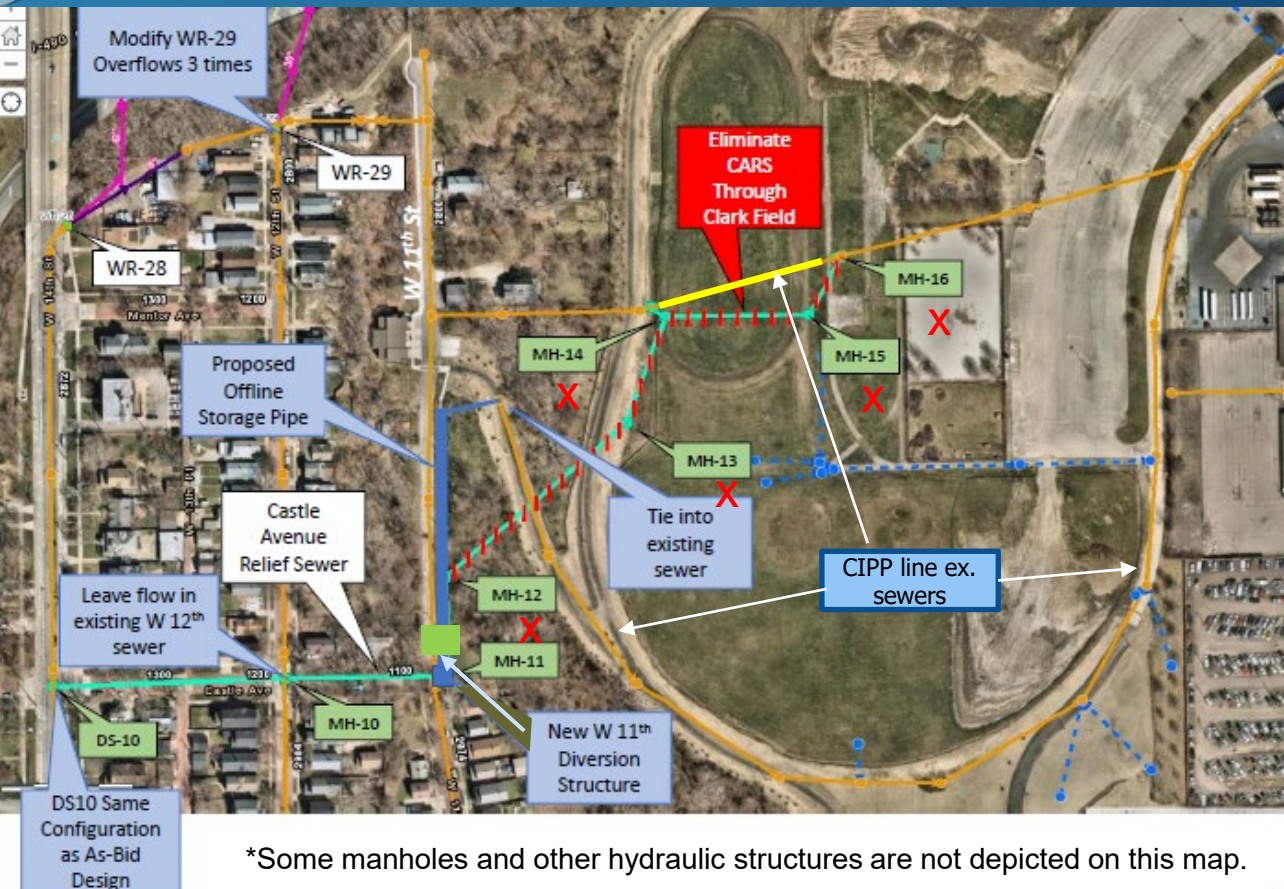
Project Benefits:

- Reduce combined sewer overflows at CSO 087 from 6 events/year to 3
- Reduce combined sewer overflows at CSO 089 from 37 events /year to 0
- Alleviate surging in Northwest and Westerly Interceptors

Project Components:

- Seymour Avenue Relief Sewer
- Castle Avenue Relief Sewer
- W. 3rd Street Sewer Separation
- Misc. modifications to Northwest and Westerly Interceptors

Castle Avenue Relief Sewer (CARS) Key Design Changes



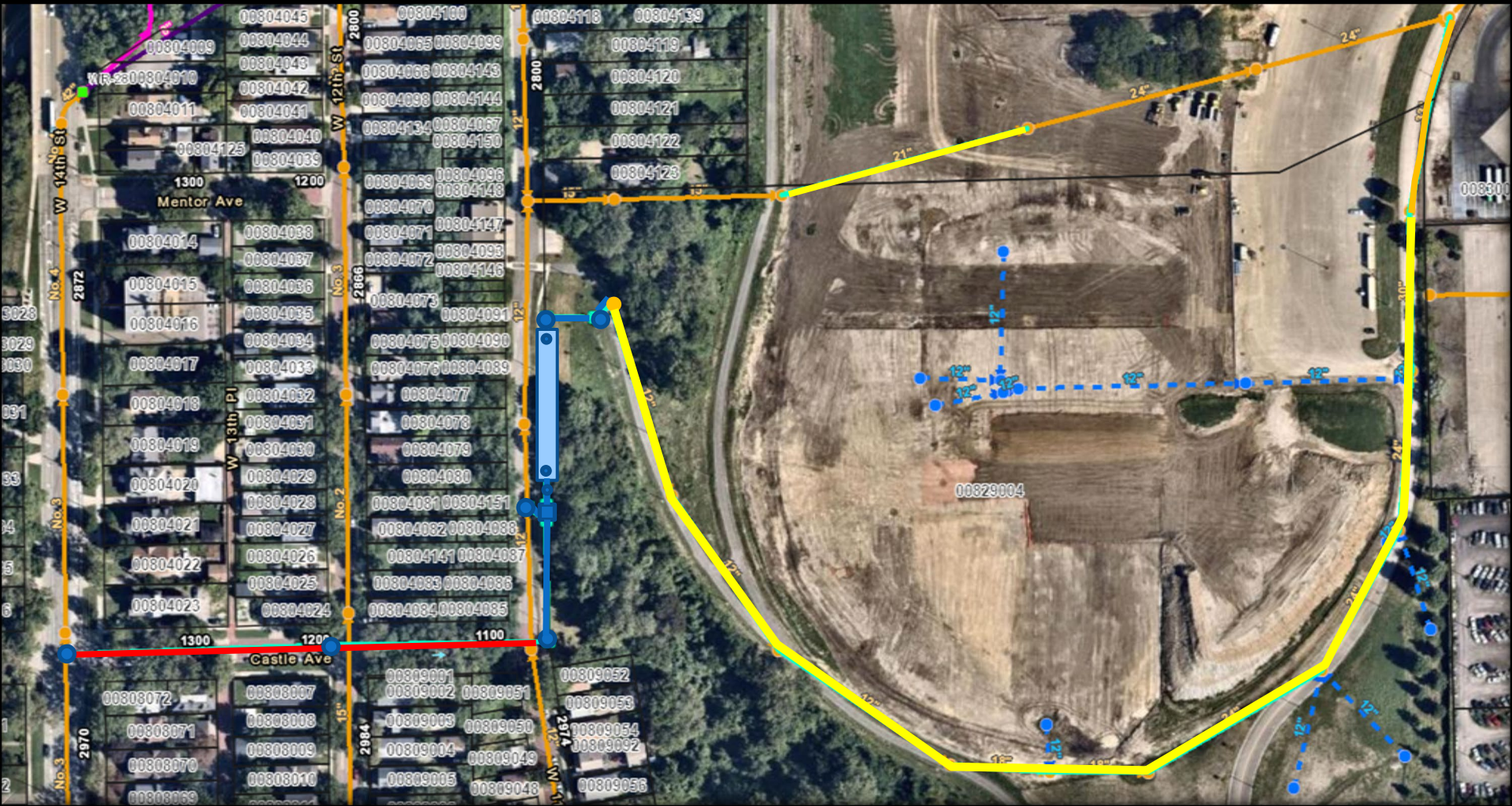
Modified flow strategy

- Allow flow to continue north in ex. W. 12th Street sewer instead of sending to CARS; control at Regulator WR-29
- Divert some flow back into ex. W. 11th sewer
- Store flow along W. 11th St., then convey through ex. sewers along southern loop of Clark Field

DESIGN REVISIONS

- Eliminated flow pick-up at W. 12th Street. Manhole MH-10 is now optional for microtunneling.
- Eliminated tunneled sewer from W. 11th St. into Clark Field & open-cut sewers across Clark Field
- Added 8x8 box storage culvert with hydrobrake
- Added CIPP lining of ex. Clark Field sewers
- Added WR-29 modification; eliminated WR-28 modification

Castle Avenue Relief Sewer



General Description:

- Approximately 606 LF of trenchless sewer - Castle Avenue
- Approximately 275 LF of open-cut sewer and 256 LF of 8'x8' box storage culvert – W. 11th St.
- CIPP lining of Clark Field sewers
- Modification of Regulator WR-29 (not shown on map)