

W. 3rd Quigley/Westerly Miscellaneous CSO Control

DESCRIPTION

The W. 3rd Quigley/Westerly Miscellaneous CSO Control project (W3QW) is part of Project Clean Lake, a \$3B, 25-year program NEORSD began in 2011 designed to meet Clean Water Act standards and address water quality issues. The W3QW is a relief sewer project that the NEORSD will use to reduce the 4.5 Billion Gallons of wet weather combined sewer overflows (CSOs) released into Lake Erie and its tributaries in the Greater Cleveland area.

W3QW includes approximately 3,300 linear feet of 18-inch to 42-inch-diameter relief sewers constructed via open-cut trenching or trenchless methods in the City of Cleveland. The relief sewers, along with new diversion structures and junction chambers, will convey flow from undersized sewers to existing sewers with sufficient capacity to carry additional flow, thus reducing combined sewer overflows to CSO 087. At W. 3rd St. and Quigley, sewer separation will eliminate combined sewer overflows to CSO 089. The W3QW project also includes a vent structure and other miscellaneous improvements on the Northwest Interceptor. The general project alignment is shown in the map below.



W3QW Project Schedule						
Project Phase	Year					
	2017	2018	2019	2020	2021	
Design		■	■	■	■	
Bidding				■		
Construction				■	■	■

PROJECT BENEFITS

The W3QW system will reduce overflows to the Cuyahoga River from CSO-087 and CSO-089 and reduce CSO volume, providing the following benefits:

- Improved water quality in Nine Mile Creek and Green Creek;
- A reduction in public health risks associated with CSOs;
- A cleaner Lake Erie for drinking water, boating, beach-going, and other recreational purposes; and
- Wet weather flooding relief.

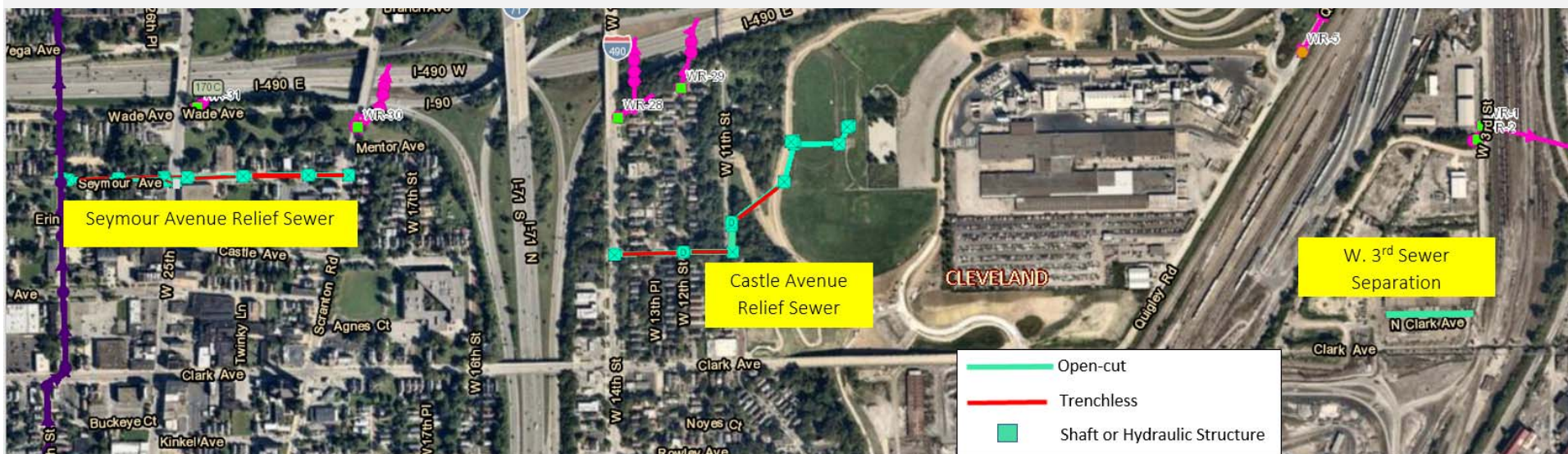
CONSTRUCTION COST: \$10,900,000

STATUS: Final Design Phase



W 3RD QUIGLEY/WESTERLY MISCELLANEOUS CSO CONTROL

Authorization to Advertise for Construction (83-19)



EOPCC: \$10,900,000

BOP: 20% (15% MBE/WBE; 5% SBE)

Design: McMillen Jacobs Associates

Construction Duration: 555 days

Main Components:

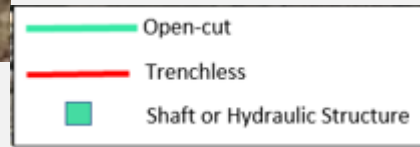
- 2,500 LF of sewer in tunnel
- 1100 LF sewer by open-cut
- 17 shafts/junctions/manholes
- 4 diversion & vent structures
- 6 regulator modifications
- 2 stormwater treatment units

Project Benefits:

- Reduce CSO 087 & 089 from 6 and 37 events/year to 1 and 0
- Reduce CSO from 7.8 to 0.03 MG
- Alleviate surging in Northwest and Westerly Interceptors



CASTLE AVENUE RELIEF SEWER



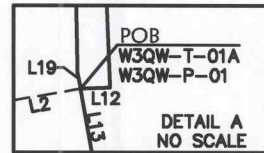
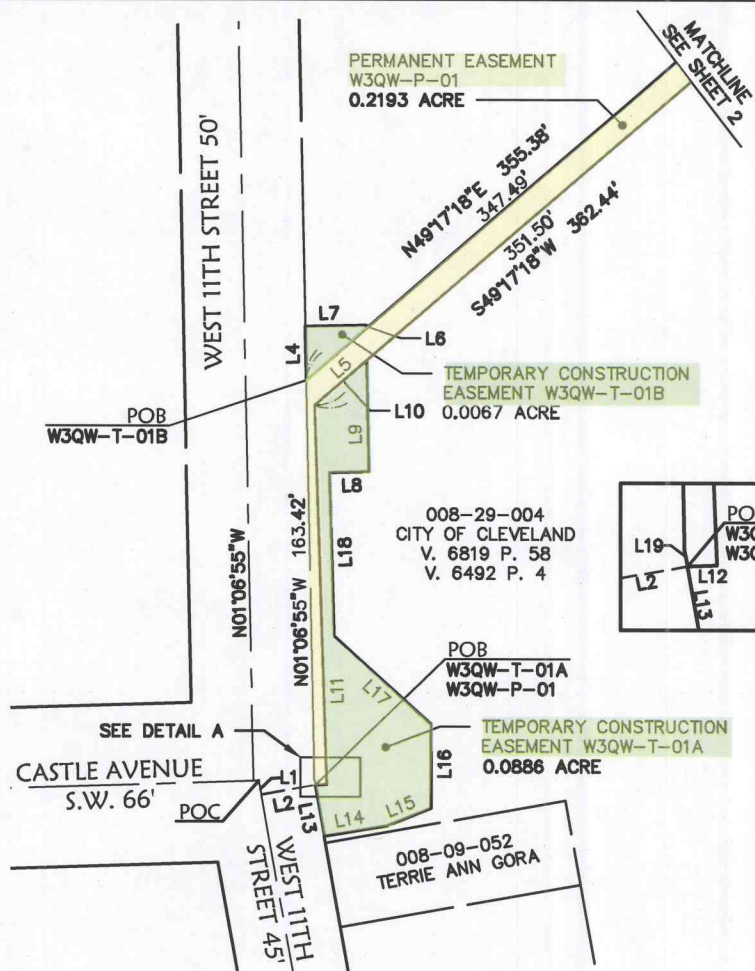
Key Features:

- Convey flow to existing 24" sewer
- 1,650 LF of sewer
- Trenchless construction – Castle Ave. & across new Towpath Trail
- Open-cut construction – along W. 11th St. and in Clark Field
- Close coordination with Tremont Playfields project

**TEMPORARY CONSTRUCTION EASEMENTS AND
PERMANENT EASEMENT
ACROSS PARCEL NO.
008-29-004
PART OF ORIGINAL BROOKLYN TOWNSHIP NOS. 71 & 86
CITY OF CLEVELAND
COUNTY OF CUYAHOGA,
STATE OF OHIO**

LINE TABLE		
LINE	BEARING	LENGTH
L1	S09°59'48"E	5.70'
L2	N80°00'12"E	22.50'
L3	N40°42'42"W	0.96'
L4	N01°06'55"W	22.07'
L5	S49°17'18"W	32.44'
L6	S01°06'40"E	1.39'
L7	N88°53'01"E	25.00'
L8	S88°53'01"W	16.28'
L9	S01°06'52"E	45.63'
L10	N49°17'18"E	28.18'
L11	S01°46'01"E	155.93'
L12	S88°14'19"W	4.62'
L13	N09°59'48"W	21.38'
L14	S80°30'33"W	25.92'

LINE TABLE		
LINE	BEARING	LENGTH
L15	S88°30'46"W	19.82'
L16	S00°07'59"W	34.55'
L17	S47°43'55"E	53.90'
L18	S01°39'56"E	67.26'
L19	N09°59'48"W	2.85'
L20	S02°22'58"E	3.51'
L21	S01°48'46"E	14.00'
L22	N40°42'42"W	19.31'
L23	N58°26'35"W	29.39'
L24	N31°33'25"E	10.00'
L25	S58°26'35"E	32.05'
L26	S81°11'34"E	10.00'
L27	N49°17'18"E	10.93'
L28	S49°17'18"W	7.89'



1" = 60'
FEBRUARY 14, 2019



T. A. Bixler 2-14-19

TREVOR A. BIXLER
PROFESSIONAL SURVEYOR, OHIO NO. 7730

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ABBREVIATIONS

- AFN AUTOMATIC FILE NUMBER
- CCMR CUYAHOGA COUNTY MAP RECORDS
- P PAGE
- POB POINT OF BEGINNING
- POC POINT OF COMMENCEMENT
- V VOLUME

SHEET 1 OF 2

KS
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**TEMPORARY CONSTRUCTION EASEMENTS AND
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CITY OF CLEVELAND
V. 6819 P. 58
V. 6492 P. 4

