

FLOOD RELIEF AT WINDWARD & DOUGLAS



CITY *of*
LOWELL

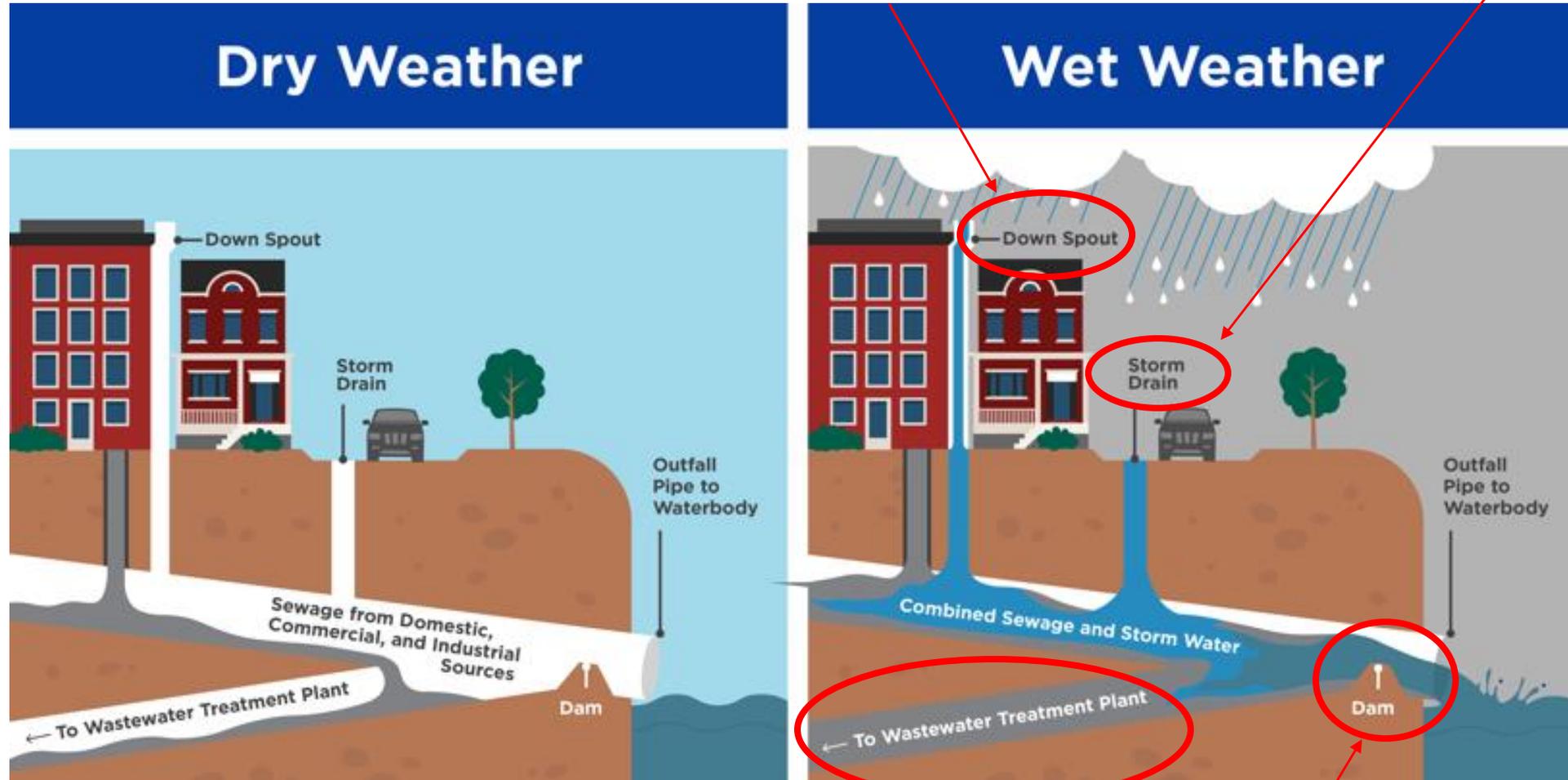
September 24, 2024



Combined Sewer Overflow (CSO)

Private Inflow

Public Inflow



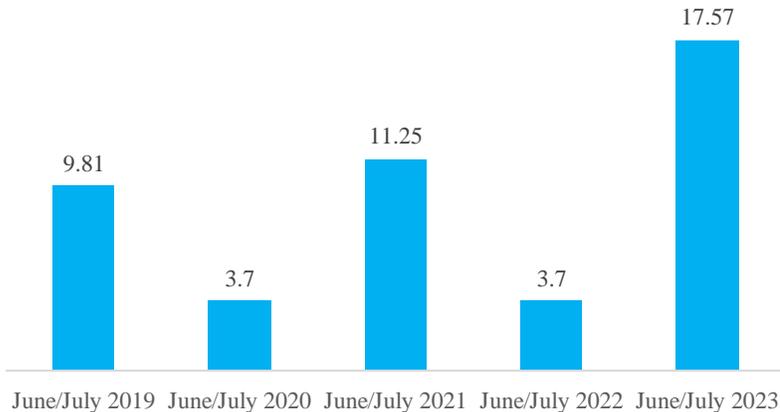
Sanitary flow AND stormwater conveyed for treatment

Untreated CSO discharge

Windward & Douglas - Overview

- Main line sewer constructed 1934 -1936
- Drainage lines constructed 1950s-1980s
 - Alcott St, Windward Rd, Douglas Rd, Ice Rink, & Cawley Stadium
- 2023 Historic Rain Fall

June & July Yearly Rainfall Totals (Inches)



Sanitary Sewer Overflow

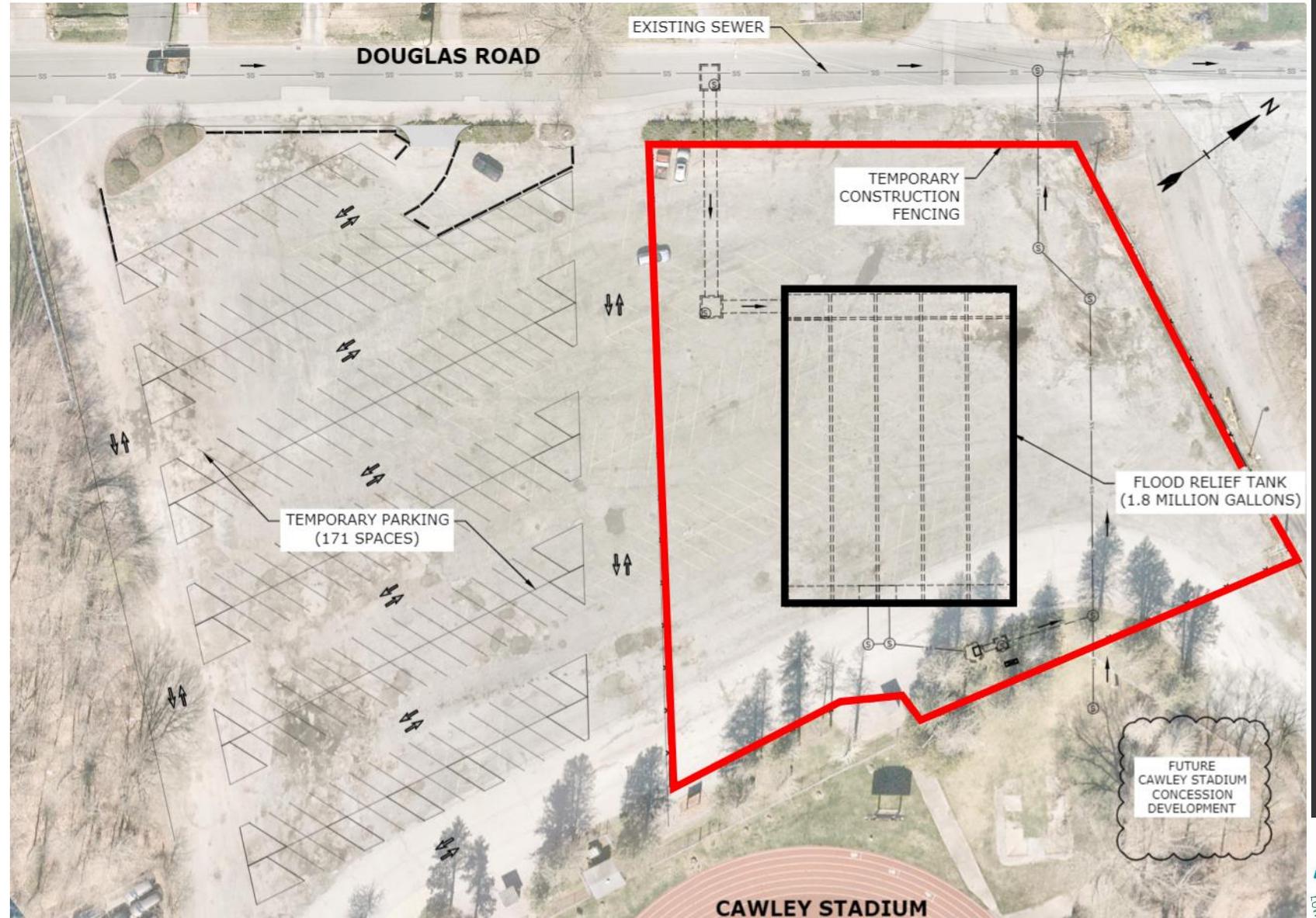
A sanitary sewer overflow (SSO) occurs when wastewater is unintentionally released into the environment before reaching a treatment facility, often due to heavy rainfall or sewer system issues.



Level Sensor Installed in Manhole in Front of 35 Windward Rd

Flood Relief Tank – Design & Layout

- 1.83 Million Gallons of Storage
- Will mitigate flooding for rainstorms up 25-year average recurrence interval
- Entire Douglas Rd Parking lot to be paved after construction



Flood Relief Tank – Operations & Schedule

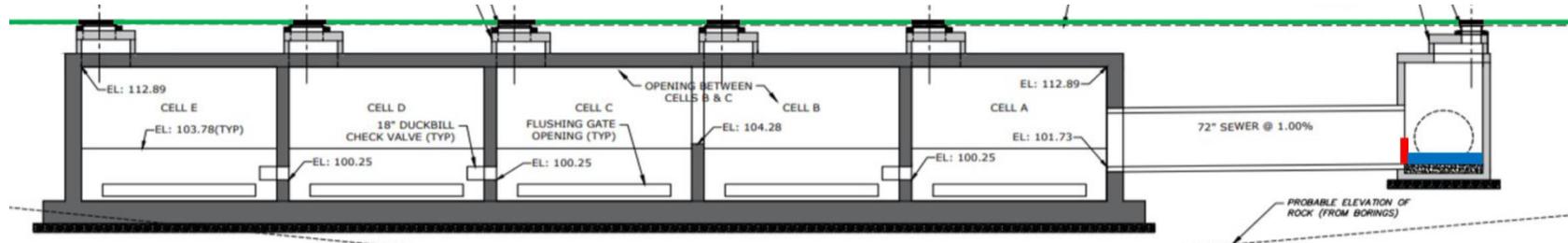
- Schedule:

- Construction starts: Spring 2025

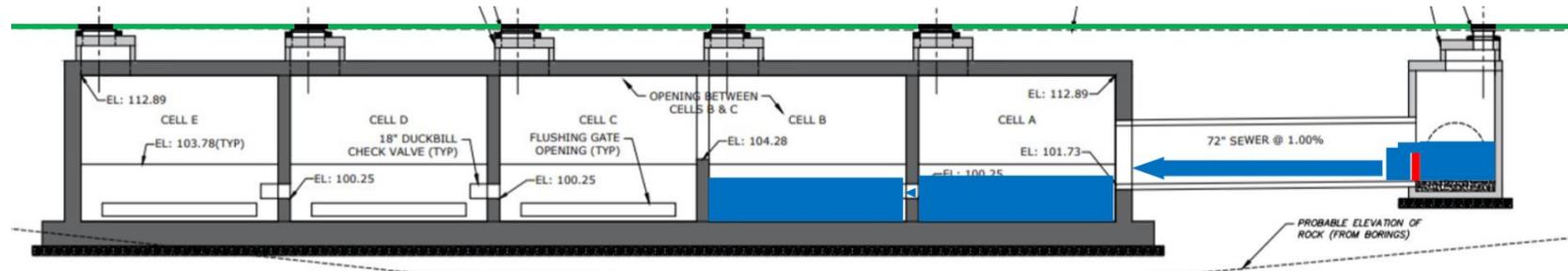
- Tank Construction Completed: Fall 2026

- Paving Completed: Summer 2027

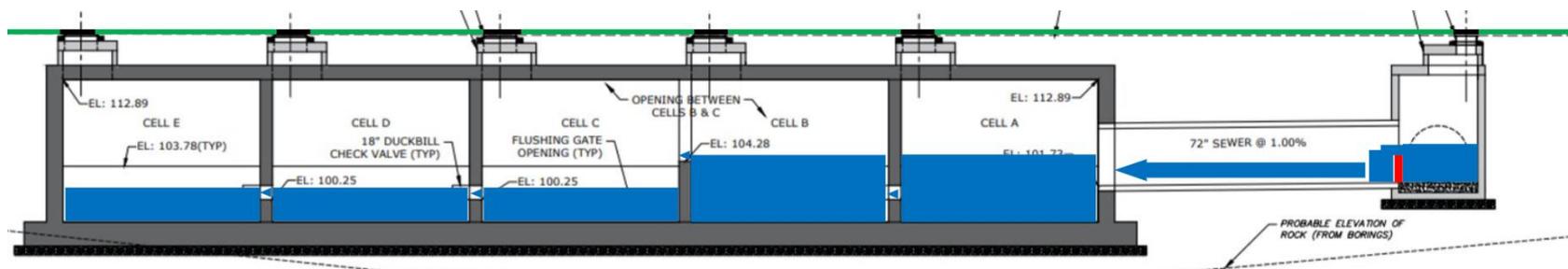
No Rain



Rainstorm Under 2 Year Frequency



Rainstorm 2+ Year Frequency



Sewer Backup Reimbursement Program

- Full Program Details on the City Website: <https://lowellma.gov/637/Wastewater-Utility>
- Contact Tim Brinkman: 978-674-1618 or tbrinkman@lowellma.gov

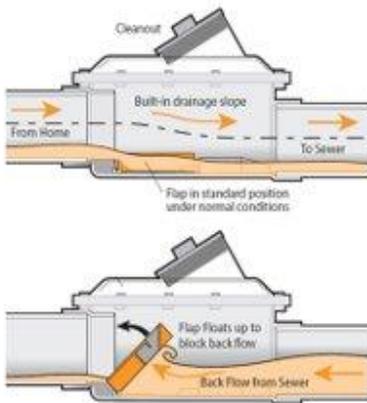
Sewer backups?

During heavy rain events the combined sewer system can reach capacity resulting in the potential for the sewer to backup into homes and businesses.

A check valve can be installed to help prevent this.

What is a check valve?

A check valve or backwater valve is a one-way valve that can be installed within a sewer service to prevent flow from backing up into your property.



We want to hear from you!

Participate in the Lowell Sewer and Street Flooding Issues Survey. This is a requirement to qualify for reimbursement and helps us determine your eligibility, as well as driving improvement projects around Lowell.

Take the survey:



What is the Sewer Backup Reimbursement Program?

The City of Lowell is offering a reimbursement of up to \$5,000 to eligible residents who install a sewer check valve or backwater valve in their sewer service lateral. This program is to provide financial support to property owners at high risk of experiencing a backup from the combined sewer system during rain events.

Am I eligible?

Eligibility will be determined based on several factors such as history of sewer backups or known flooding as a result of the combined sewer system reaching capacity.

To determine eligibility reach out to LRWWU at (978) 674-4248 to schedule an inspection



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<https://www.lowellma.gov/637/Waste-water-Utility>

Sewer Backup Prevention Reimbursement Program

Lowell Regional Wastewater Utility

