



Sewer Master Plan Update

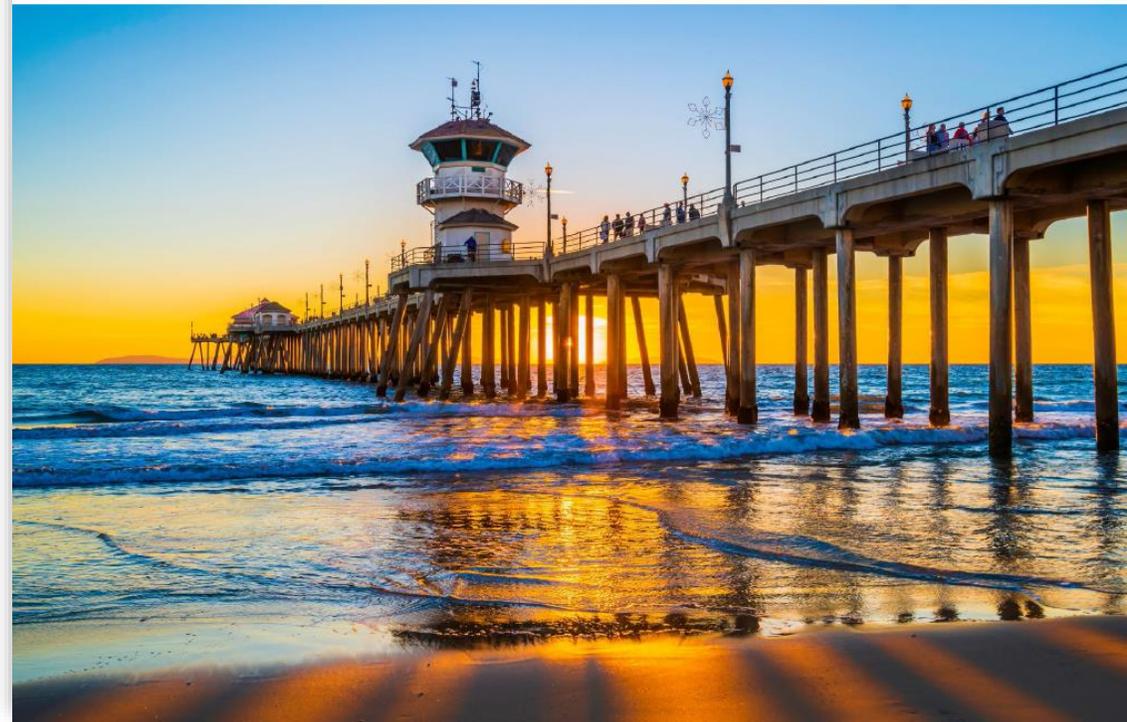
Public Works Commission
Wednesday, July 17, 2024



Sewer Master Plan Update

City of Huntington Beach
April 24, 2024

→ The Power of Commitment



Background



GHD hired in Nov 2022



Build on 2003 Sewer Master Plan by Kennedy/Jenks Consultants



Monitor and collect flow data, then build City's Sewer Model and analyze system



Develop 10-year Capital Improvement Program (CIP)

Purpose

- Analyzes City's sewer infrastructure
- Identify CIP projects needed over next 10 years (2025-2035)
- Maximize reduction of risk, reduce infiltration & inflow (I&I), and eliminate sanitary sewer overflows (SSOs)
- Support Sewer Financial Plan and Water Rate Study



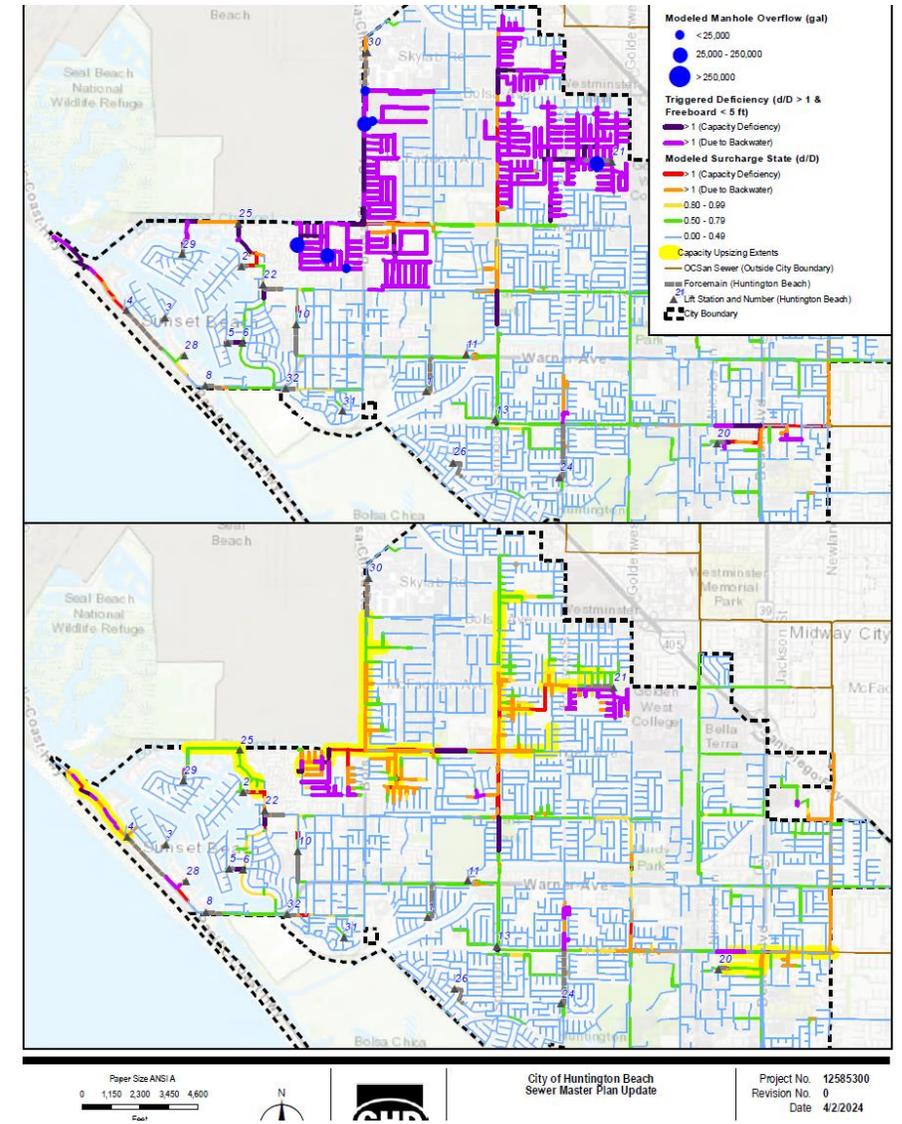
The Master Plan is a Planning Tool

- Per our 2022 Sewer System Management Plan (SSMP)
- State Water Resources Control Board (SWRCB) Waste Discharge Permit compliance
- Last SMP completed in August 2003, which was 20 years ago
- 10-year planning horizon



Design Basis Criteria

- Future Water Use
- Wet Weather Flow
- 10-year, 24-hour design storm
- Infiltration & Inflow (I&I)
- Boundary Conditions (OCSD)



Capital Improvement Program

FISCAL YEAR 2023-24 BUDGET



Capital Improvement Program (\$142 million)

- Gravity Sewer Replacement (\$66 million)
 - 156 pipe segments, 42,573 feet
- Lift Station Rehabilitation (\$49 million)
 - Nine (9) need full replacement
 - 18 require rehabilitation
- Other Projects (\$27 million)
 - Annual Sewer Lining Program
 - CCTV Inspection Program
 - Residential Overlay
 - Carryover Projects





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Next Steps

- Incorporate into Sewer Rate Study (complete 4/16/24)
- Post on City Website (complete)
- Incorporate into Future CIP (pending June 2025)
- Update Master Plan again in 5 years (2029)

