

Town of Dennis, MA Wastewater Program Update

Select Board Meeting

July 11, 2023



Dennis
preserving our water resources

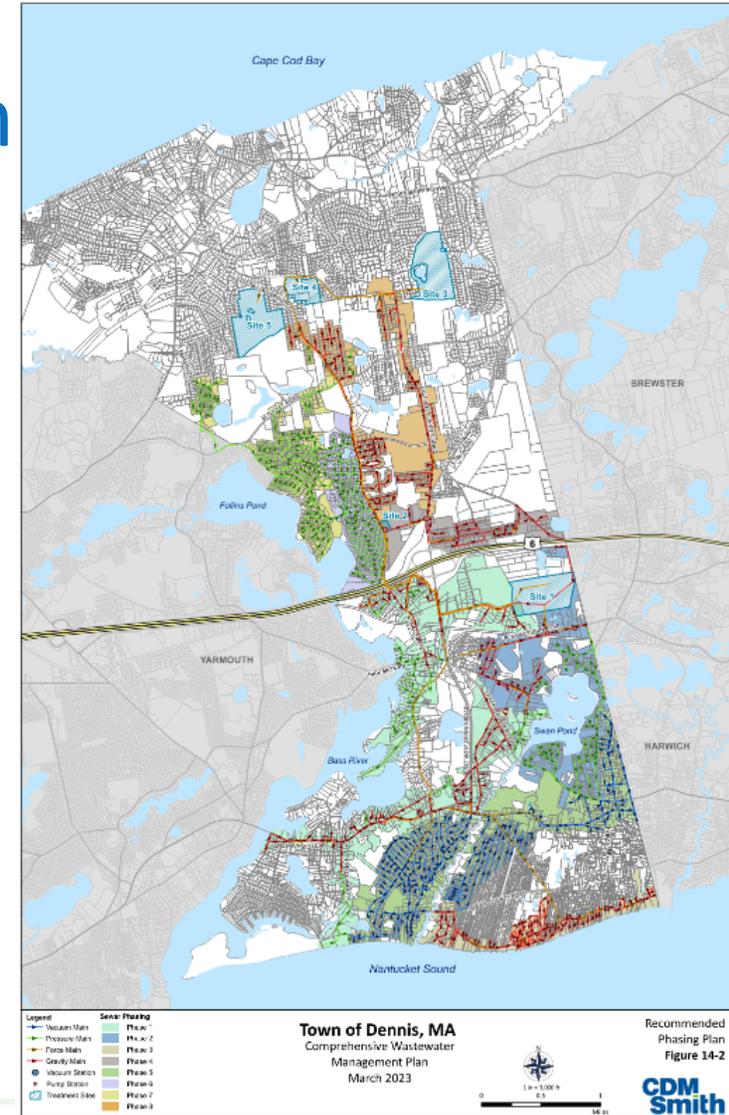
**CDM
Smith**

Agenda

- Collection system
 - Phasing Plan
 - Phase 1 System
 - Typical Pumping Stations
- Water Resource Recovery Facility (WRRF)
 - Existing Site
 - Current Site Plan
 - Preliminary Site Rendering
- Project Cost Estimates
- Schedule

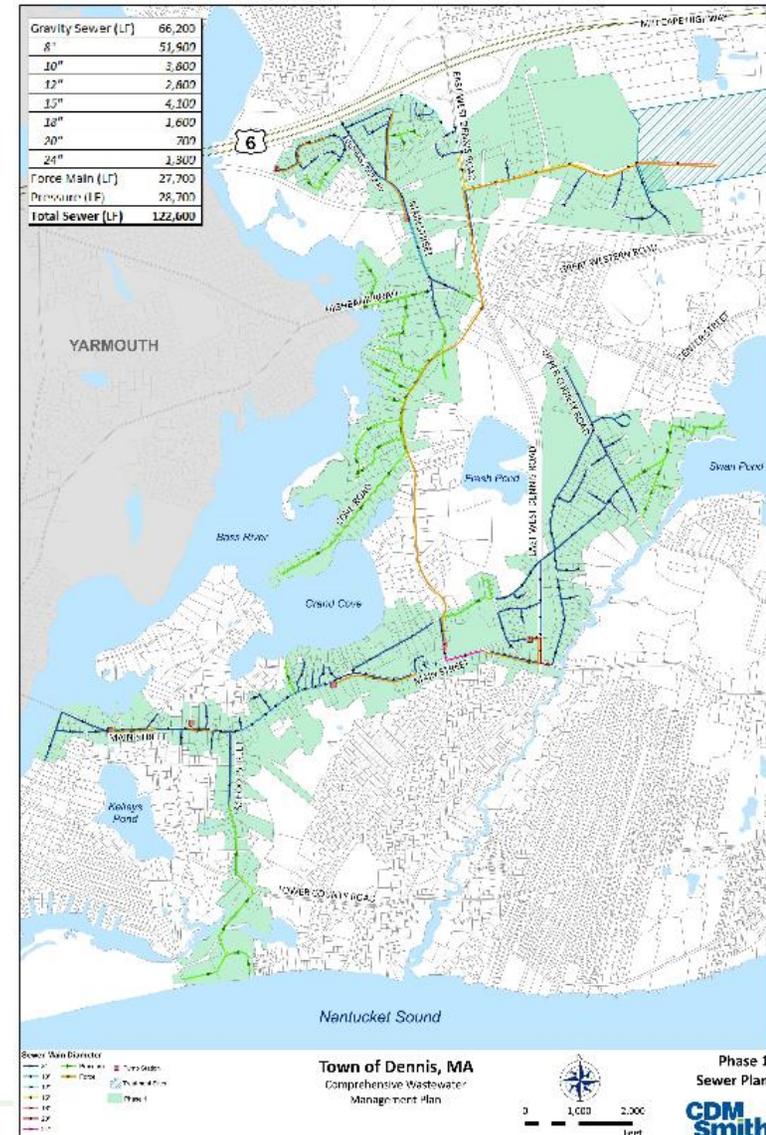
Collection System – Phasing Plan

- Per Approved CWMP
- 8 Phases
- 40-Year Program
- 100 miles of pipelines
- 22 pumping stations



Collection System – Phase 1

- 12.5 miles of gravity sewers
- 5.5 miles of pressure sewers
- 7 pumping stations
- 5.2 miles of force main
- 3 construction contracts



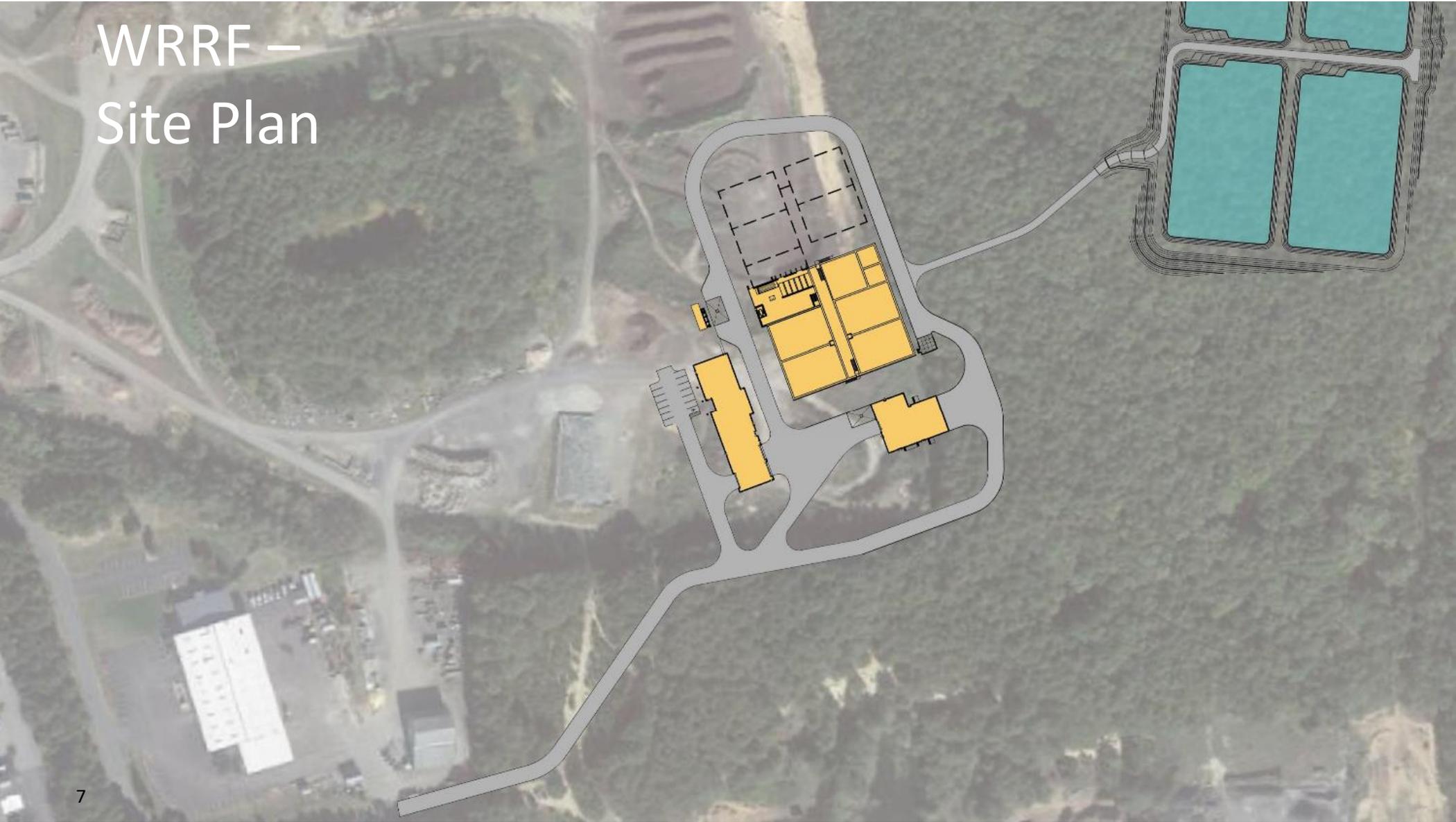
Collection System – Typical Pumping Stations



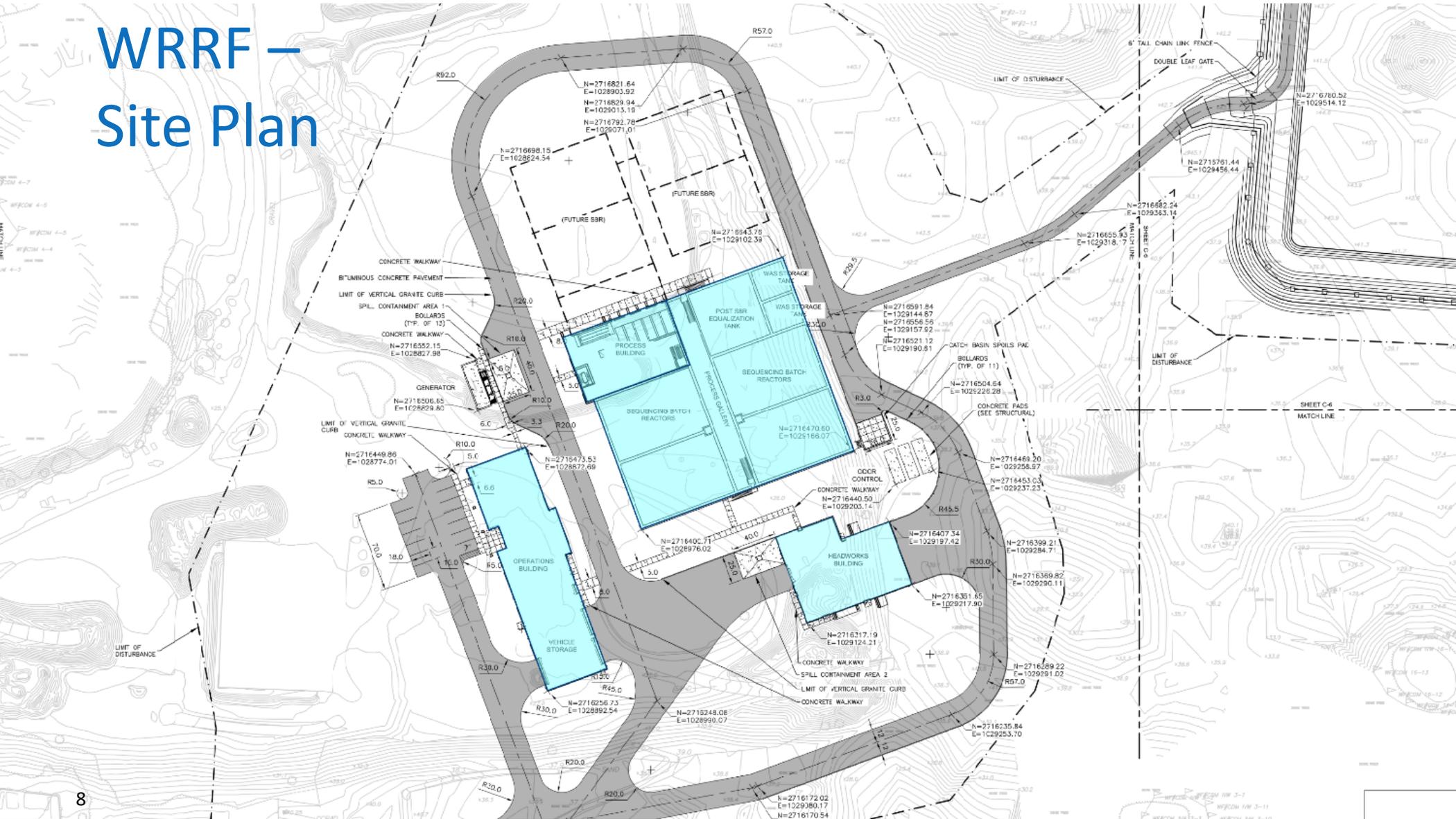
Collection System – Typical Pumping Stations



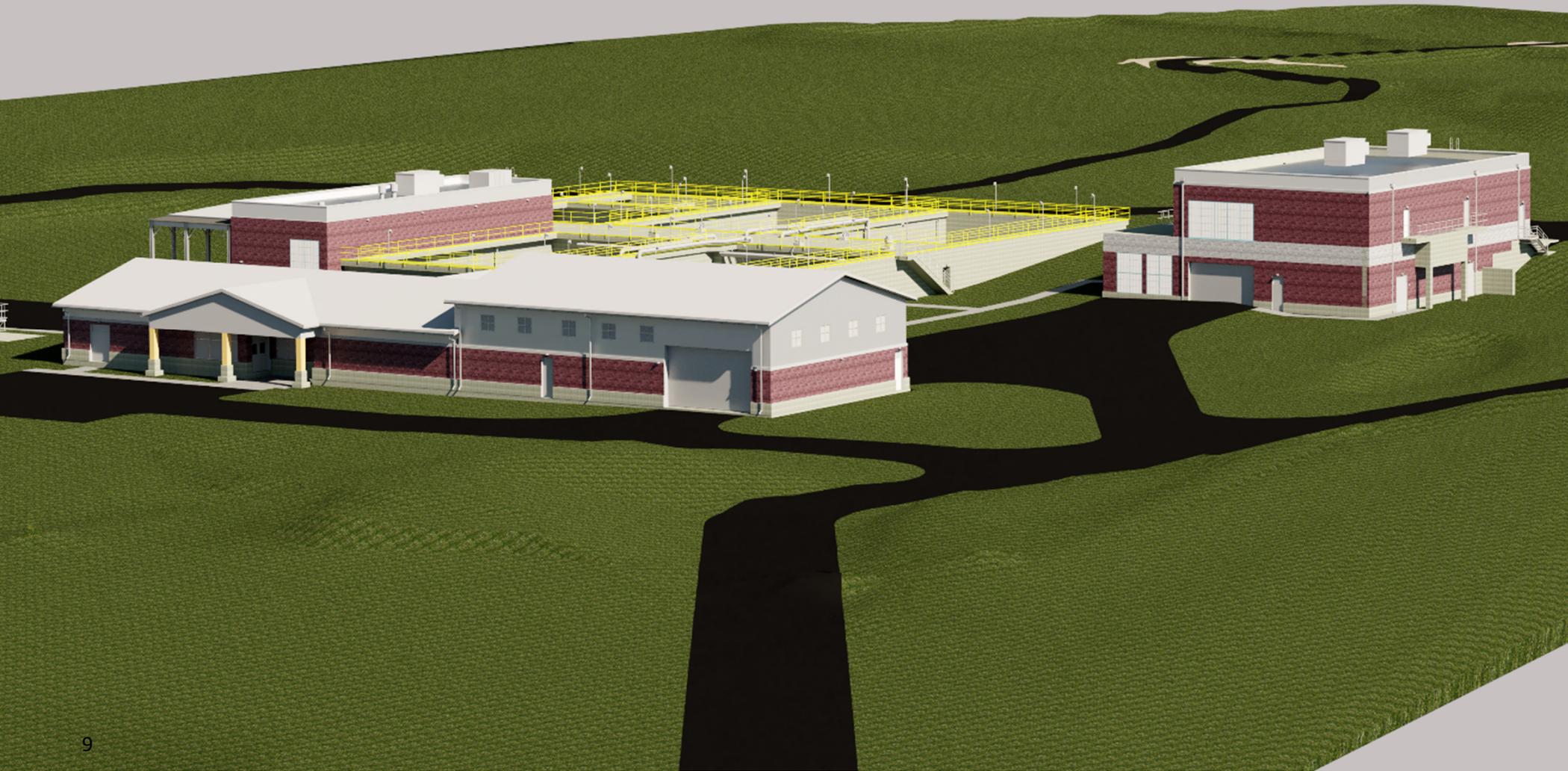
WRRF – Site Plan



WRRF — Site Plan



WRRF- Preliminary Site Rendering



Project Cost Estimates

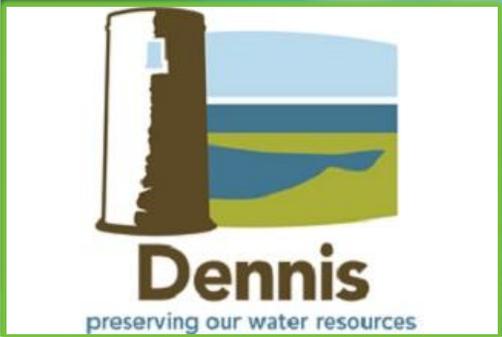
- Collection System
 - Project Cost: \$74M (based on 10% design and recent bids)
- Water Resource Recovery Facility
 - Project Cost: \$113M (based on 30% design)
- Total Phase 1 Project Cost
 - Total Cost: \$187M
 - Includes construction cost and contingency, escalation to mid-point (2025), engineering services during construction (15%), policing

Reasons for Cost Increases

- CWMP costs conceptual in nature
- Costs updated based on:
 - Increased inflation rates (original assumed 3%; actual 6-8% per year)
 - Recent Cape construction bids
 - Actual design plans for Dennis

Phase 1 Schedule Milestones





Questions