

Washington Court House

August 18, 2016
Presentation to City Council

System Evaluation and Capacity
Assurance Plan (SECAP)
Implementation Schedule

Washington Court House

Historical Perspective

- Implementation Schedule and SECAP Required by Ohio EPA January 1, 2007 Consent Order
- The Purpose was to Eliminate Sanitary Sewer Overflows and Wet Weather Blending at WWTP
- Recommended Project and 2013 Memorandum Decision allowed a 3 Phase Approach

Washington Court House Phases

	Phase 1	Phase 2	Phase 3
Description	WWTP Phase 1 Improvements	Manhole T1 Pump Station and Force Main	Eyman Park Trunk Sewer
Initiation of Construction	2022	Post-2030 (if needed)	Post-2030 (if needed)
Project Costs (2022 basis)	\$26,000,000 ¹	-----	-----

Notes:

1. Project cost does not include loan origination or bond issuance costs.

Washington Court House

WWTP Phase 1 Schedule

<u>Task Description</u>	<u>Task Completion</u>
Completion of a Cost of Service Study & Rate Analysis to determine rate adjustments necessary to fund the proposed improvements and determine the impact on rate payers.	Completed
Initiate Implementation of Rate Analysis Recommendations	Post-2016 (2017)
Request/Receive Proposals and Award Contract for Design of WWTP Phase 1 Improvements	2020
Complete Engineering Design of WWTP Phase 1 Improvements & Obtain PTI Approval	2021
Advertise/Bid/Award/Initiate Construction of WWTP Phase 1 Improvements	2022
Conclude Implementation of Rate Analysis Recommendations	2026
Complete Construction of WWTP Phase 1 Improvements and Conduct Performance Evaluation of Impacts to Collection System and Treatment Facilities	2026-30
Initiate Debt Repayment	2030

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Phase 1 Work

- Electrical, Instrumentation & Disinfection Facilities
- Sludge Handling, Disposal & Storage Facilities
- Influent Pump Station, Screening Facility, Preliminary Treatment Facility & Septage Screening
- Secondary Clarifier

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Phase 1 Work

- Aeration Tank Modifications
- Office, Laboratory & Blower Building
- Wet Weather Aeration Tanks, Aerobic Digesters & Wet Weather Settling Tanks
- Equalization Tank Modifications

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Rate Evaluation

- 25 Year Loan for \$26,000,000
- 4% Interest
- Loan Origination = 2020
- 10% Rate Increase for 3 years, 5% for 2 Years and 2% per Year till 2050
- Cost Spreadsheet Review

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Current Rates through August 31st

OWDA Market Rate Program

- Loan Terms 25 Years: 2.70%

WPCLF and DWAF Rates

- Loan Terms 25 Years: 1.40%

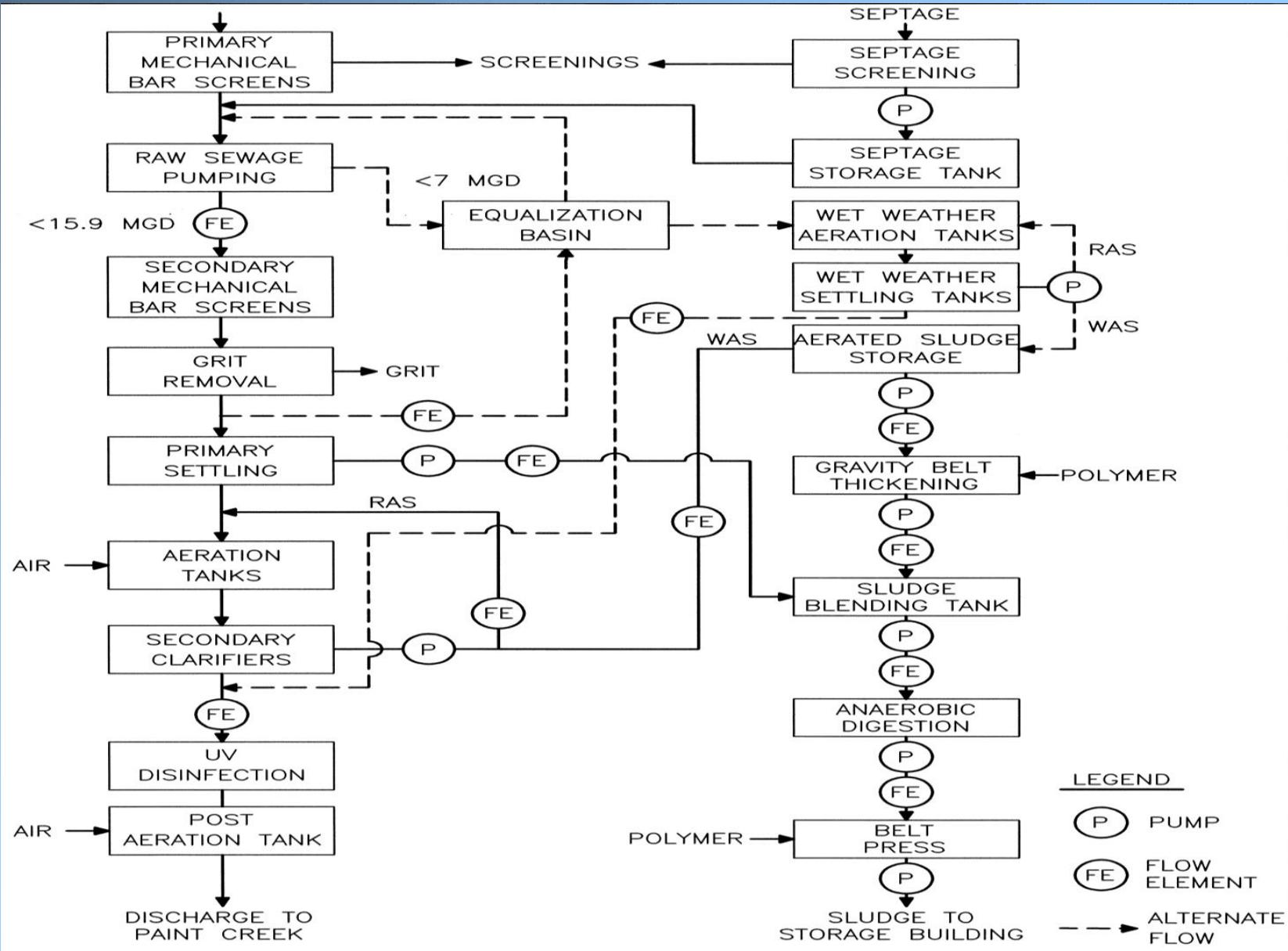
Washington Court House Potential Savings

- Begin Project now with Lower Rates
- Current OWDA Rate = 2.7%
 - Total Cost = \$37.7M vs \$44.3M
 - Total Savings = \$6,600,000
 - Annual Payment Savings = \$264,000
- Current WPCLF Loan Rate = 1.4%
 - Total Cost = \$31.7M vs \$44.3M
 - Total Savings = \$12,600,000
 - Annual Payment Savings = \$500,000

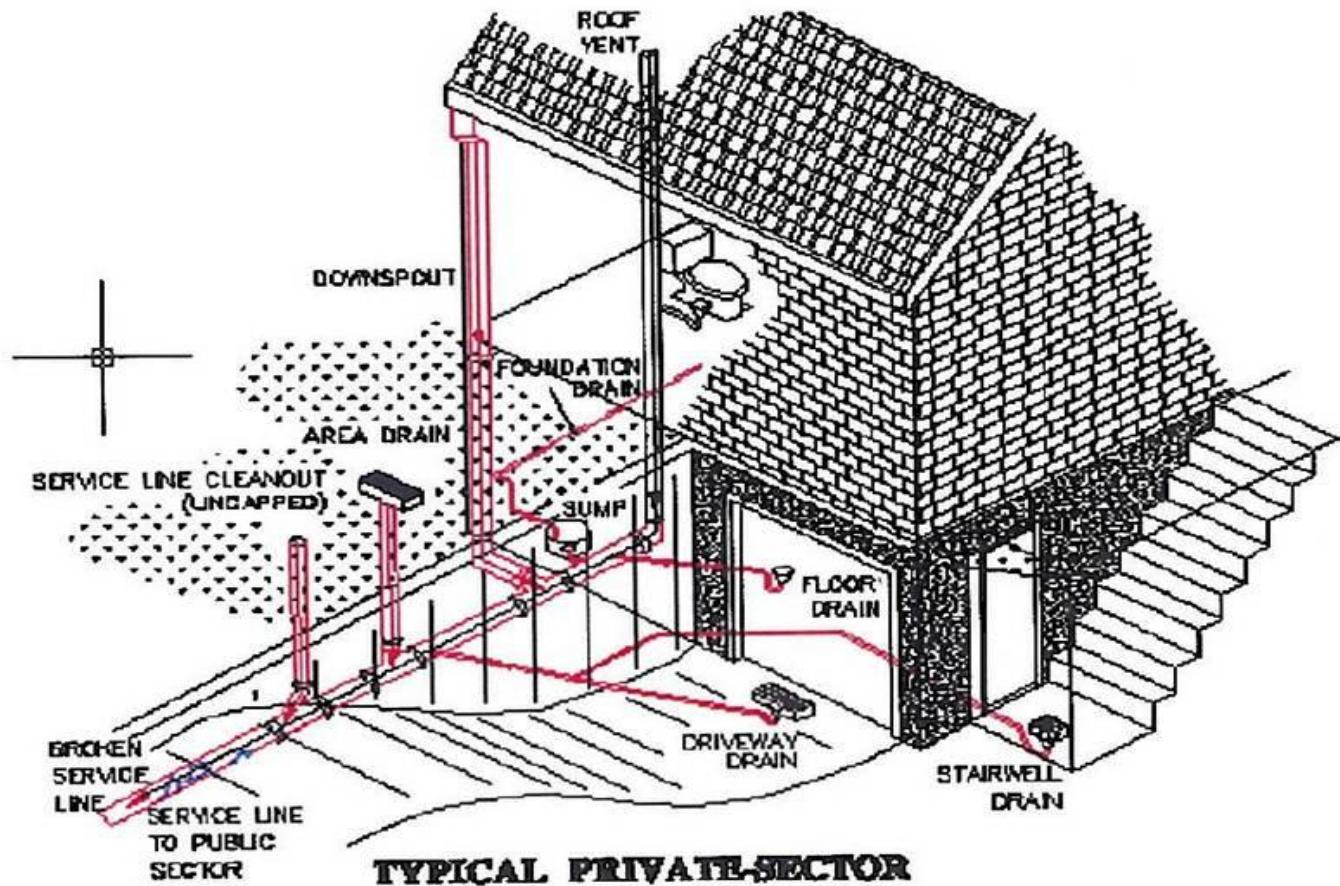
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Questions & Answers

Washington Court House - WWTP Flow Diagram



Sources of Inflow/Infiltration



Sources of Inflow/Infiltration



Sources of Inflow/Infiltration

