LakeCounty
Department of Public Works

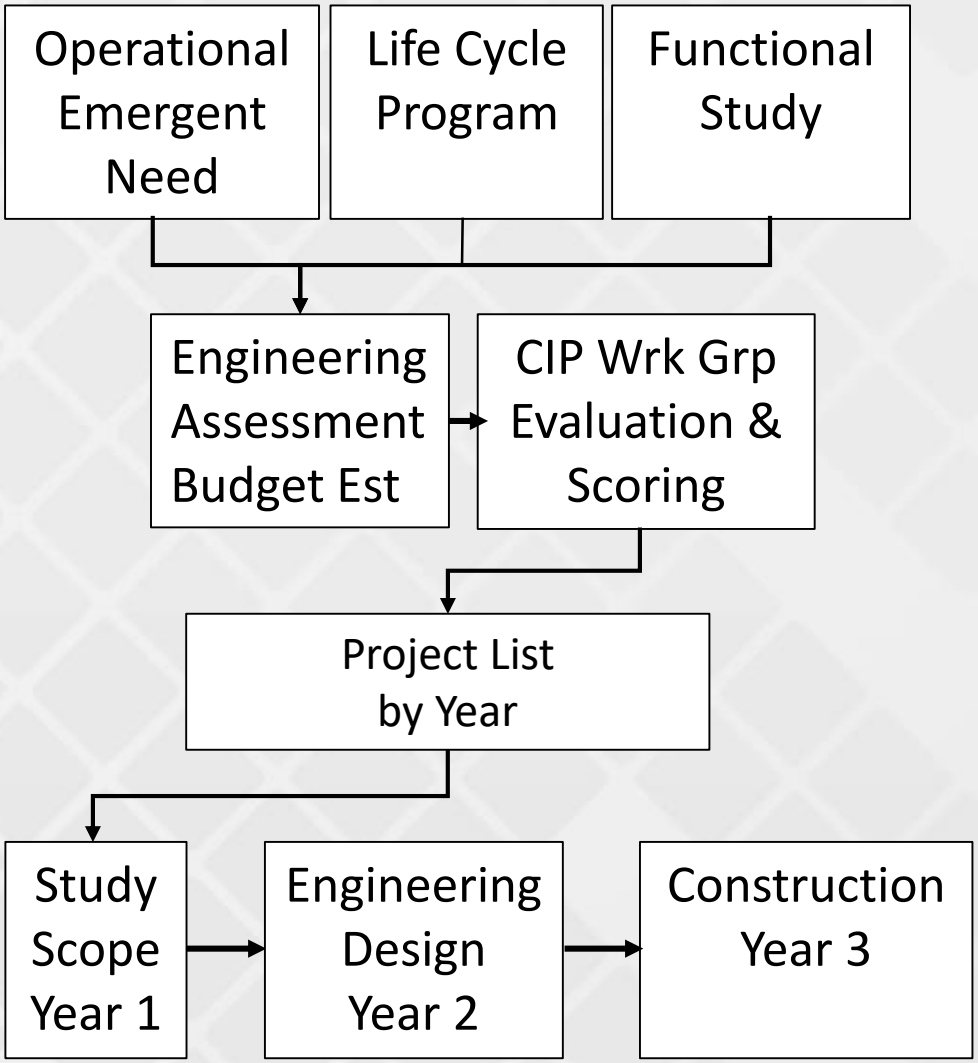
Public Works – CIP

Capital Improvement Plan
2019 Update
August 7, 2019

Overview

- Plan development process
- Criteria and goals
- Investment strategy
- Next steps

Plan Construct



Overarching CIP Priorities

- Maximize life of existing infrastructure
  - Recapitalize existing capacity
  - Modernize to improve efficiency and reduce environmental impacts
- Meet regulatory requirements
- Meet tomorrow's capacity demands

Project Selection

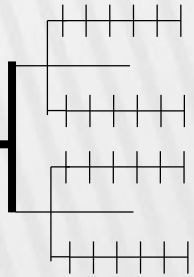
- Projects score based on:
  - Probability of failure or value of redundancy
  - Consequence of failure
  - Project Type (Preserve > Modernize > Expand)
  - Strategic initiative contribution
- Balance funding between investment categories
  - Highest priority projects per category to meet investment 5-year average goal
  - Remaining projects compete for left over funding

Investment Categories

Average Total
$9.2M

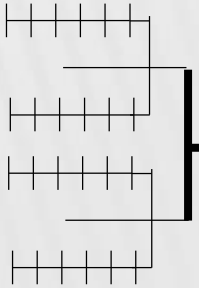
Water Production & Storage
$1.7M

Water Distribution
$2.7M



Happy Customer!

Sewage Collection System
$2.6M

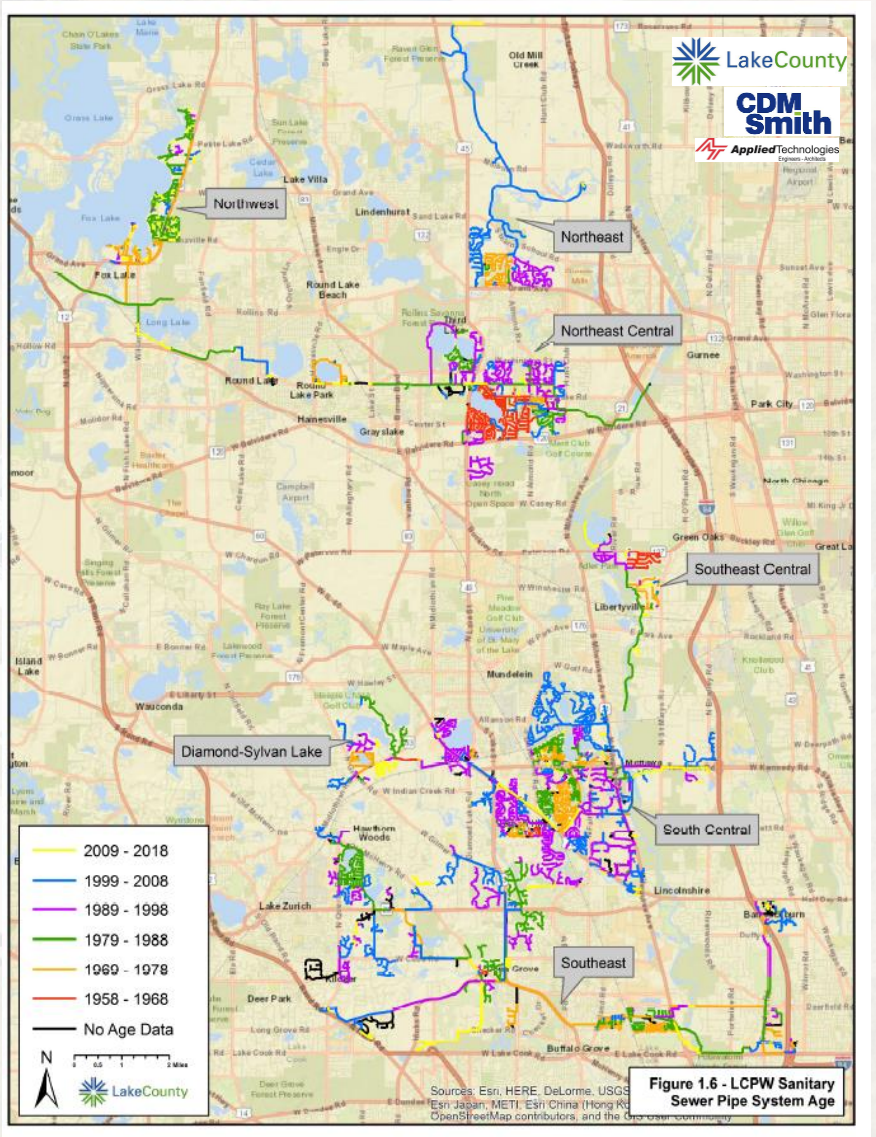


Water Reclamation Plants
$1.3M

Other Support Facilities & Equipment
$0.9M

Functional Study - Example

- Buried Infrastructure
  - Water Main
  - Sanitary Sewer
- Evaluation of conditions
  - Existing Data Review
  - Interviews
- Risk Definition and Scoring
- Risk Rating
- Capital Improvement Program
- Recommendations



Water Production & Storage

Strategic Initiative
- 72 hour storage or backup source
- System age within useful life span

Annual Investment
- $1.7M
- Historic avg

Water Distribution

Strategic Initiative
- Replace 1% of system per year based on risk study master plan

Annual Investment
- $2.7M
- 2018 risk study

Sewer Collection

Strategic Initiative
- Replace 0.35% of system per year based on risk study master plan

Annual Investment
- $2.6M
- 2018 risk study

Water Reclamation Plants

Strategic Initiative
- Stay ahead of regulations
- System age within useful life span

Annual Investment
- $1.3M
- Historic avg*

* Excludes major plant upgrades

Support Facilities & Equipment

Strategic Initiative
- System age within useful life span

Annual Investment
- $0.9M
- Historic Avg

- Annual Fleet Recapitalization
- Annual Bldg Maint & Paving
- Levee Maintenance
- Fire Hydrant Replacement
- Generator Maintenance

New Start Recap

Investment Category	Target 5 yr Avg	5 Yr Avg	FY2020	FY2021	FY2022	FY2023	FY2024
Water Production & Storage	$1.7M	$2.4M	$1.5M	$6.9M	$0.9M	$2.6M	$0.1M
Water Distribution	$2.7M	$3.0M	$0.8M	$3.2M	$2.8M	$5.2M	$2.9M
Waste Water Collection	$2.6M	$3.5M	$4.5M	$5.1M	$2.4M	$3.5M	$2.3M
Water Reclamation	$1.3M	$0.4M	$0.1M	$0.2M	$0.9M	TBD	TBD
Other	$0.9M	$2.2M	$2.6M	$2.8M	$1.8M	$1.8M	$1.9M
FY TOTAL (2019 Validation)		$11.3M	$9.5M	$18.1M	$8.8M	$13.1M	$7.1M
FY TOTAL (w/o Prior Yr)		$8.4M	$7.0M	$9.3M	$8.0M	$10.6M	$7.1M

- Avg investment across 5 years is $8.4M w/o prior year funded projects
- FY2021 spike is due to Vernon Hills Reservoir

Next Steps

1. Align User rate to support program
2. Build Capacity Tools
3. Utilize Modeling and Capacity Analysis for project scope refinement
4. Commission Facility Master Plan