Papakolea Sewer System Update

LAND DEVELOPMENT DIVISION
Item E-1 Workshop
Monday, July 15, 2019
Papakolea, Kewalo and Kalawahine
Papakolea Sewer Improvements

Purpose

• Repair and/or replace damaged and undersized pipes

• To upgrade sewer improvements and access which comply with City and County Standards
Papakolea Sewer Improvements

Phase 1

- Sewer Line C Replacement
- Partial Relocation
- Drainage Ditch Rehab
- Sewer Line E
- Sewer Line F
- Slope Improvements

Total cost: $13 Million

Phase 2

- Sewer Line A
- Sewer Line J Replacements
- Sewer Line I
- Sewer Line K-2
- Sewer Line K-3
- SL M
- SL N

Total est. cost: $45 Million
Papakolea Sewer Improvements
Phase 1

- Drainage Ditch Rehabilitation
- Sewer Line F
- Sewer Line E
- Sewer Line L Partial Relocation
- Sewer Line C Replacement
- Slope Improvements
Papakolea Sewer Improvements
Phase 1 – Sewer Line E & F

- 65 Lots
- 4,200 Linear feet
- 28 New sewer manholes
- Cost: $5.5 Million

Sewer Line F
Completed
Jun 2019

Sewer Line E
Completed
Feb 2019
Papakolea Sewer Improvements

Sewer Line E:
- Realigned and rerouted sewerline and manhole to avoid bisecting properties
Papakolea Sewer Improvements
Phase 1 – Sewer Line L Realignment

- 900 LF, 10-inch pipe
- 6 New sewer manholes
- 16 Lateral reconnections
- Abandon existing Sewerline K and L in place
- Completion: September 2019
- Cost: $1.3 Million
Slope Stabilization
- 34,000 square feet
- Completed June 2018
- Cost: $4 Million

Sewer Line C & C-1
- Est. Completion August 2019
- 520 Linear feet, 8” pipe
- 5 New sewer manholes
- Cost: $0.7 Million
Papakolea Sewer Improvements
Slope Stabilization

Before Project

Fallen Rocks Within sidewalk area
Papakolea Sewer Improvements
Slope Stabilization

After
Drainage Ditch Rehabilitation

Original Scope - 30 LF

Before

During

After
Ditch is a historical architectural feature, and required restoration only.
Ditch Rehabilitation

Cost of 350 linear feet of drainage improvements: $0.3 Million

Future maintenance by DHHL
Papakolea Sewer Improvements
Sewer Easement Conditions

• Lessees shall allow contractors access to repair or replace sewerlines.

• Lessees shall not block, build nor plant trees over sewerline and other improvements.

• Any improvements over the sewerline will NOT be replaced by the City or DHHL, should repair work be required.

• Sewer lateral maintenance, including blockage remediation is the responsibility of the Lessee.

• Hawaiian Homes Commission approval required to amend approximately 46 leases with new sewer easements.
Papakolea Sewer Improvements Phase 2

- Initiate engineering designs in 2019
- Estimated Start of Construction 2022, subject to funding
- 12,000+ Linear feet, 8-in pipe sewer manholes & laterals
- Evaluate phasing and disposal options for Sewer Line A
- Cost: Approx. $45 million