Kamehameha Highway
Emergency Shoreline
Improvements,
Vicinity of Kaaawa
Project No. 83D-01-15

Kaaawa Elementary School
Public Meeting
April 21, 2015
7:00 p.m.
MEETING AGENDA

- Project Purpose
- Discuss Alternative Concepts
- Receive Community Input
SITE PHOTOS

Condition in January 2015
SITE PHOTOS

Temporary Fix
Continual Pavement Cracking along Lane Line
SITE PHOTOS

Undermining of Pavement Structure
SITE PHOTOS

CRM Wall Overturning
EMERGENCY PROCLAMATION

- Emergency Proclamation dated 4-10-15
- Intended to “prevent the danger of disaster damages, losses, and suffering, and to protect the health, safety, and welfare of the people”
- Emergency shoreline work is proposed to prevent closure of the highway due to wave erosion damage
- [http://1.usa.gov/1FuVbWl](http://1.usa.gov/1FuVbWl)
CONSTRUCTION OPTIONS

• Option 1 – 24/7 Lane Closure
  – 1 Lane closed 24/7
  – No night work
  – Approx. Construction Duration: 3½ - 4 months
  – Probable Construction Cost: ~$5.4M

• Option 2 – 24/7 Lane Closure with Continuous Work
  – 1 Lane closed with work on-going 24/7 (including nights and weekends)
  – Approx. Construction Duration: 3 months
  – Probable Construction Cost: ~$7.1M

• Option 3 – Lane Closure during Working Hours Only
  – 1 Lane closed during daytime working hours
  – 2 Lanes open during night-time non-working hours
  – Approx. Construction Duration: 5 months
  – Probable Construction Cost: ~$6.6M
OPTION 1 – 24/7 LANE CLOSURE

- 1 Lane closed 24/7
- Temporary Traffic Signal for Contraflow
- Work Hours
  - Monday to Friday - 7:00 a.m. to 6:00 p.m.
- No Night Work
- Moderate Duration
- Least Costly (~$5.4M)
OPTION 2 – 24/7 LANE CLOSURE WITH CONTINUOUS WORK

- 1 Lane Closed 24/7
- Temporary Traffic Signal for Contraflow
- Work 24/7 (including nights and weekends)
- Shortest Duration
- Most Costly (~$7.1M)
- Most Noise Nuisance
OPTION 1 & 2 – 24/7 LANE CLOSURE

**Excavated Gravity Wall**

1. Install Sand Bags and Geotextile Fabric
2. Excavate
3. Install Concrete Cap Layer
4. Auger Cast (Sand/Cement Mix) Below Wall
5. Build Gravity Wall
6. Repave Highway
7. Remove Sand Bags
OPTION 3 – LANE CLOSURE DURING WORKING HOURS ONLY

- 1 Lane closed during daytime working hours
  - Monday to Friday - 7:00 a.m. to 6:00 p.m.
- 2 Lanes open during night-time non-working hours
- No Night Work
- Moderate Cost (~$6.6M)
- Longest Duration
OPTION 3 – LANE CLOSURE DURING WORKING HOURS ONLY

Sheetpile Wall

1. Install Sand Bags and Geotextile Fabric
2. Install Sheetpiles
3. Excavate and Place Road Plates During Non-Working Hours
4. Install Concrete Cap Layer
5. Auger Cast (Sand/Cement Mix) Below Wall
6. Build Gravity Wall
7. Repave Highway
8. Remove Sand Bags
ROCK REVETMENT PRECAST WALL

• Option 1 or Option 2 – 24/7 Lane Closure
  – Construction can proceed in large increments
  – Multiple activities can occur concurrently
  – Shorter duration

• Option 3 - Lane Closure during Working Hours Only
  – Staged for daily completion
  – Longer duration
ROCK REVETMENT PRECAST WALL

Precast Wall

1. Excavate
2. Install 12” Thick 3B Fine
3. Install Precast Wall System
4. Backfill
5. Repave Highway

STATE OF HAWAII
Department of Transportation
OTHER PROPOSED PROJECT ELEMENTS

- Existing roadside trees to be removed
- Existing bus stop to be relocated nearby during construction
- Resurface entire roadway width at project completion
- Archaeological monitor will be on site during all ground disturbing activities
- Contractor’s staging and storage area will be located in Crouching Lion Inn parking lot
SCHEDULE

April 2015
Environmental Permitting and Public Input

April 2015
Engineering Design

May 2015
Begin Construction

August 2015
Complete Construction
LISTENING SESSION

- Questions / Comments
MAHALO

Hawaii Department of Transportation
(808) 587-2160
dotpao@hawaii.gov

Presentation is available for viewing at:
http://hidot.hawaii.gov/presentations/

Project Updates and Lane Closure Information:
http://hidot.hawaii.gov/