

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**



PROJECT LOCATION MAP



Legend

- Project Limits
- Tax Parcels



SITE PHOTOS



Condition in January 2015



SITE PHOTOS



Temporary Fix



SITE PHOTOS



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/1FuVbWI>



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)

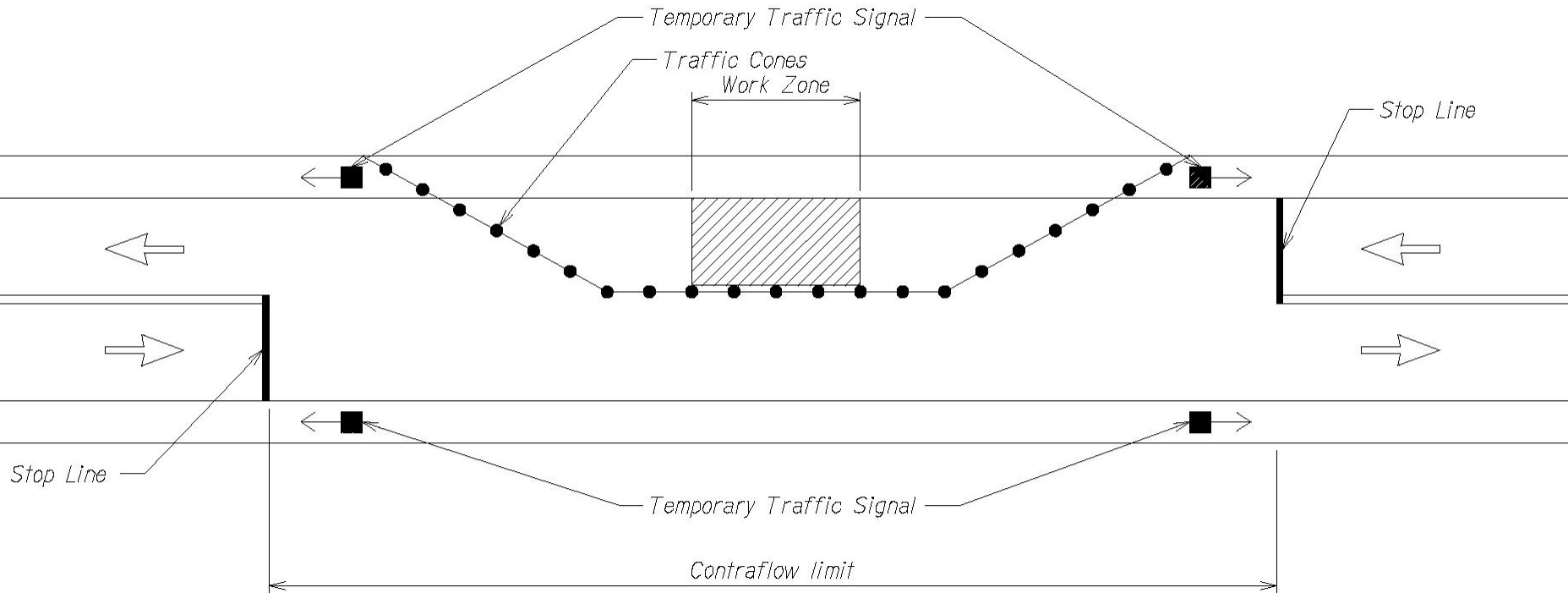


OPTION 2 – 24/7 LANE CLOSURE WITH CONTINUOUS WORK

- 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



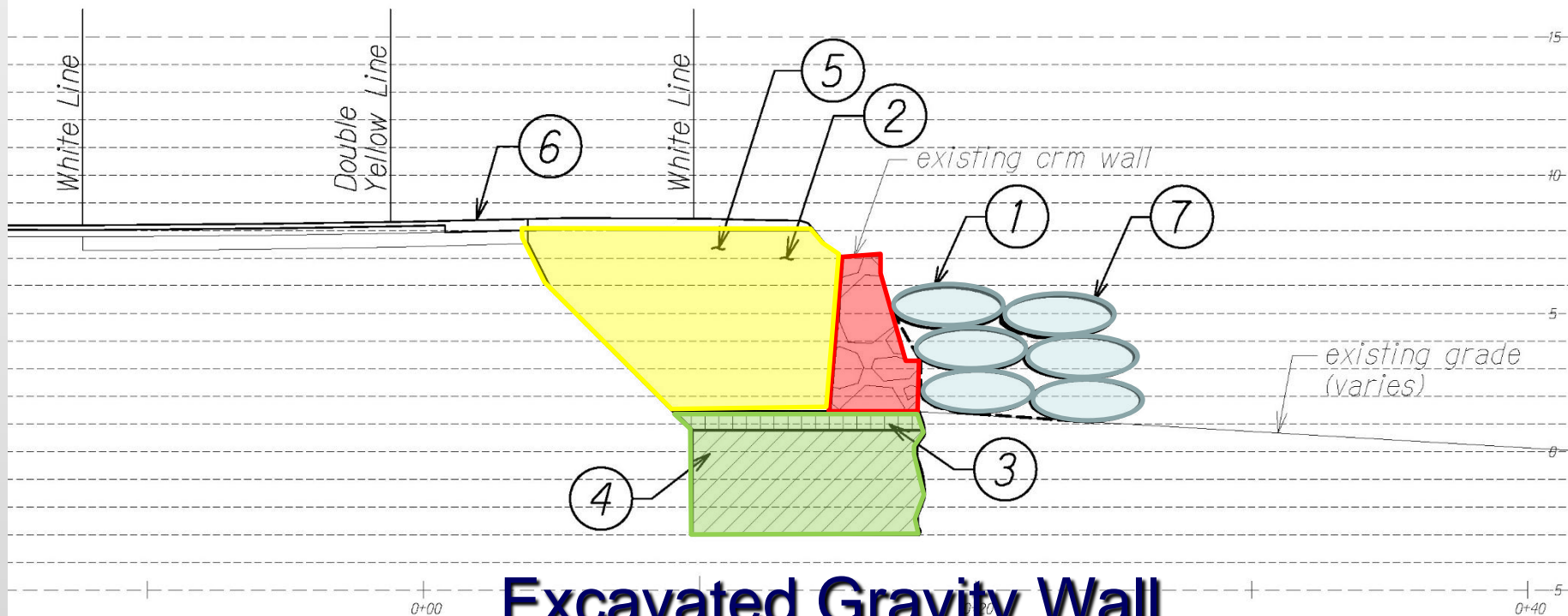
OPTION 1 & 2 – CONTRAFLOW LANE



STATE OF HAWAII



OPTION 1 & 2 – 24/7 LANE CLOSURE



Excavated Gravity Wall

- | | |
|---|----------------------|
| ① Install Sand Bags and Geotextile Fabric | ⑤ Build Gravity Wall |
| ② Excavate | ⑥ Repave Highway |
| ③ Install Concrete Cap Layer | ⑦ Remove Sand Bags |
| ④ Auger Cast (Sand/Cement Mix) Below Wall | |

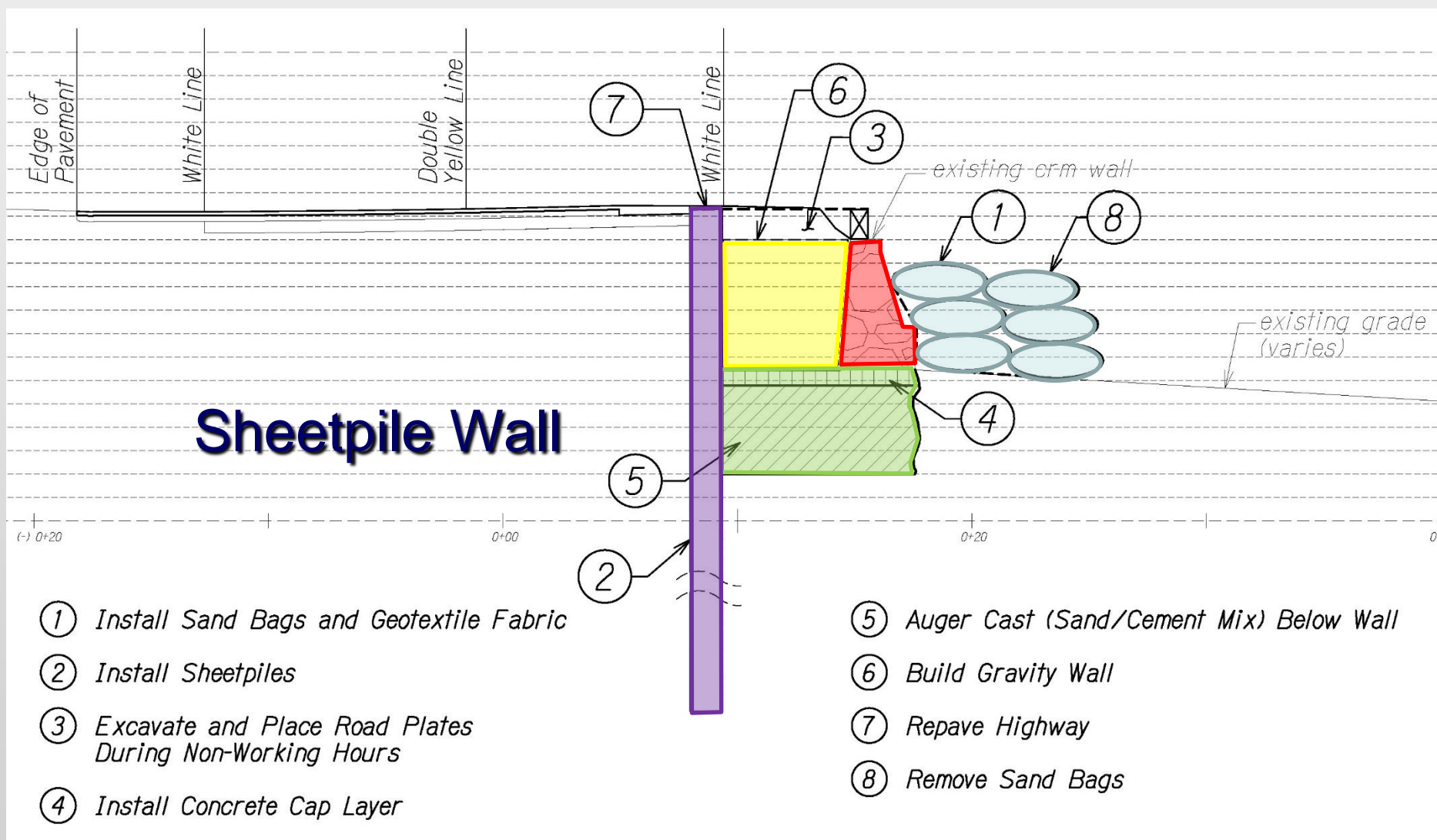


OPTION 3 – LANE CLOSURE DURING WORKING HOURS ONLY

- 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

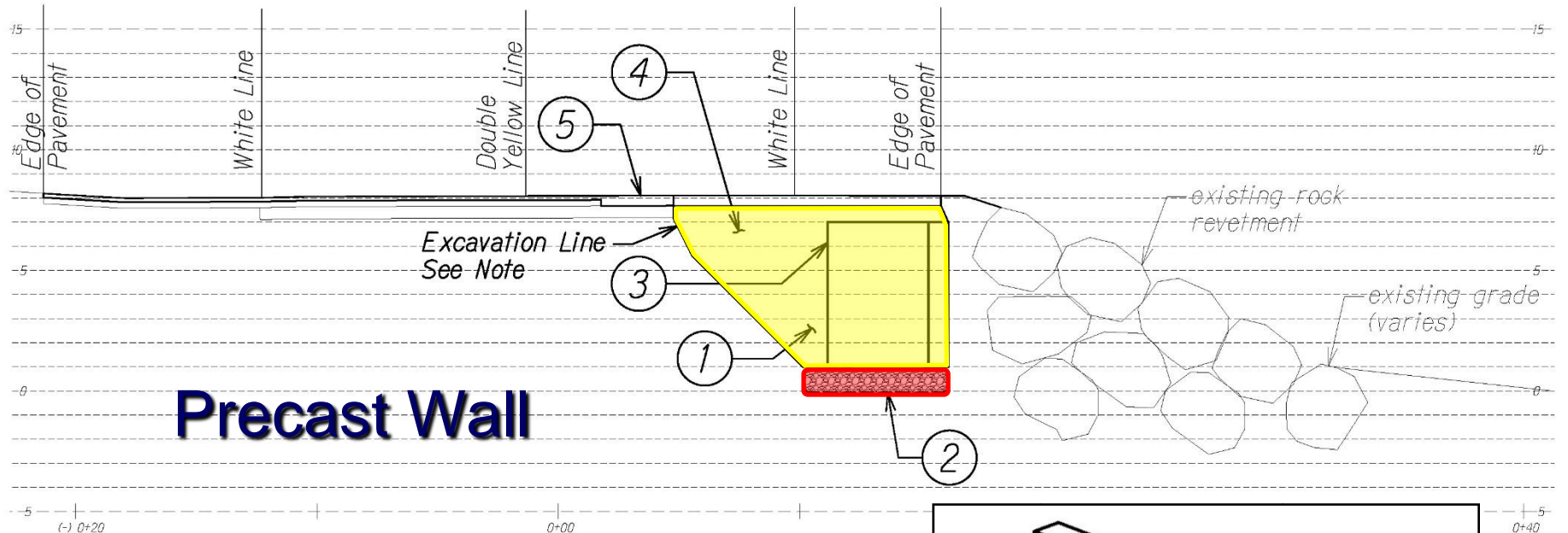


ROCK REVETMENT PRECAST WALL

- **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

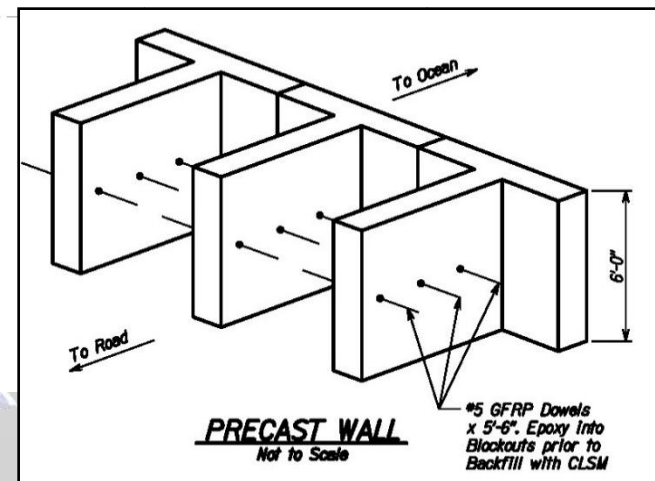


ROCK REVETMENT PRECAST WALL



Precast Wall

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



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

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Presentation is available for viewing at:

<http://hidot.hawaii.gov/presentations/>

Project Updates and Lane Closure Information:

<http://hidot.hawaii.gov/>

