

## FRIPP ISLAND PUBLIC SERVICE DISTRICT

Tuesday, January 17, 2017  
Fripp Island Fire Station  
9:30 a.m.

### AGENDA

1. Call to Order
2. Discussion of Fripp Inlet Revetment Repair Options Provided by McSweeney Engineers LLC
3. Adjourn

## FRIPP ISLAND PUBLIC SERVICE DISTRICT

**Minutes:** Commission Meeting on January 17, 2017

**Present:** Rick E. Keup, Danny H. McCormick, Richard S. Combes, Warren S. McKay, James L. Parks, and John Derrick

**Staff:** Angie Hughes, District Manager; Joshua Horton, Fire Chief; Kim Hinchey, Office Manager

**Guests:** Rita Riley, Chuck Riley, Mike Wilt, Mark Draves, Linda Freeman, Al Riccio, Tom Hunter, Lon Carlson, and Stuart Mitchell

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1. Chairman Keup called the meeting to order at 9:30 a.m.
2. Chairman Keup led the Commission in the Pledge of Allegiance.
3. Following discussion of the four repair options presented by McSweeney Engineers LLC during the January 10, 2017 Commission meeting (*Att A*), the Commission authorized McSweeney Engineers LLC to move forward with design of revetment repairs to the pre-storm average elevation of 8', upon a motion by Mr. Derrick.
4. The Commission authorized McSweeney Engineers LLC to add a bathymetric survey to evaluate the condition of the revetment toe to their original scope of work, for an additional undetermined cost, by motion of Mr. Combes.
5. The Commission entertained questions and comments from Ms. Riley and Mr. Wilt regarding the relocation of the vacuum sewer line on Porpoise Drive, the cost of the bathymetric survey and the crest elevation of the revetment.
6. There being no further business, the meeting adjourned at 11:00 a.m., upon a motion by Mr. Combes.

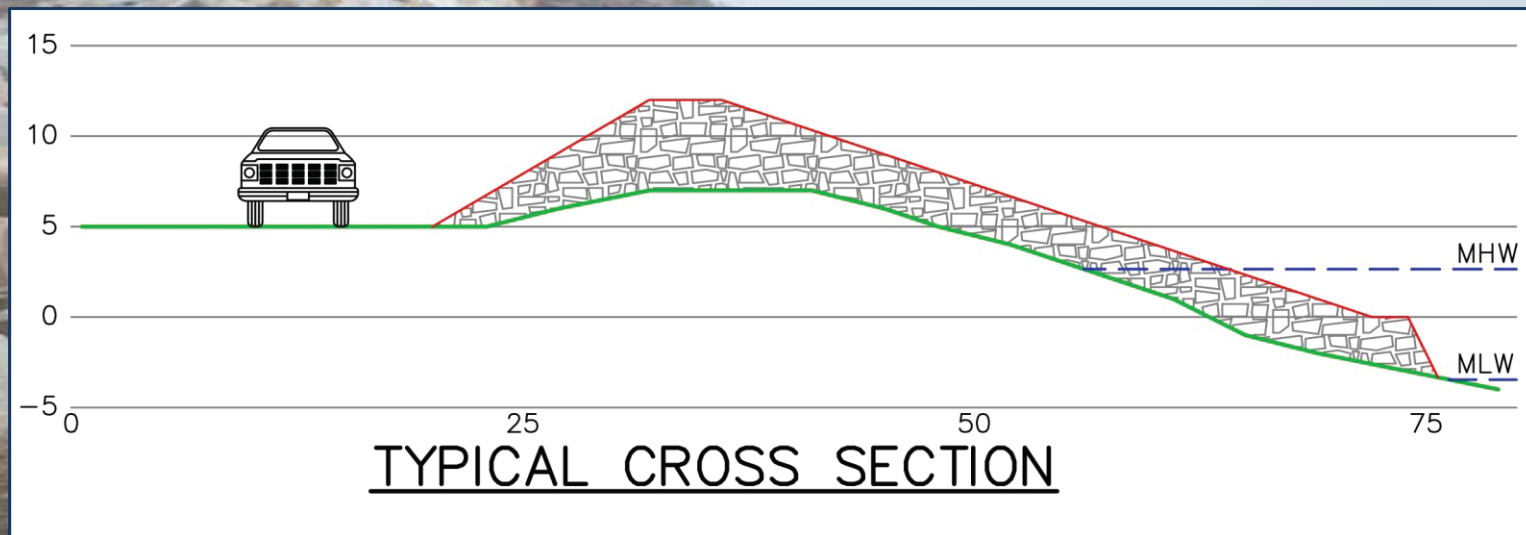


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Angel L. Hughes  
Secretary

## DESIGN OPTION: ADD STONE AS PERMITTED

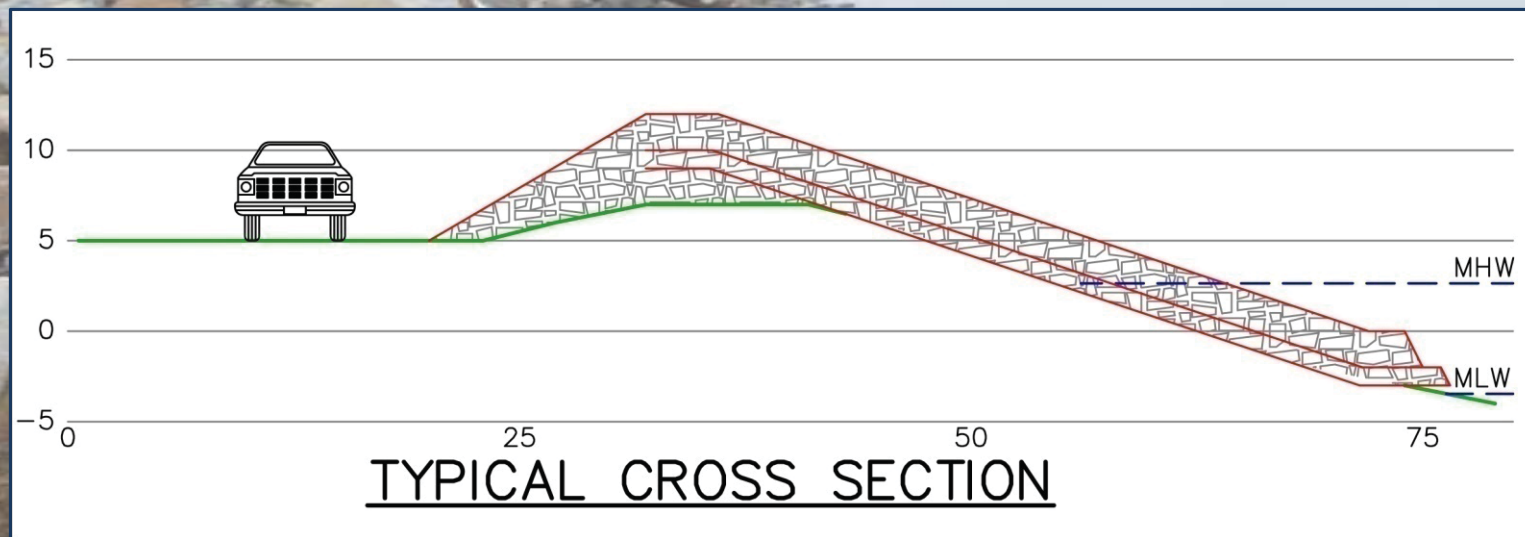
- ADD APPROXIMATELY 20,000 TONS OF ARMOR STONE



- APPROXIMATE COST TO INSTALL = \$200 - \$300 PER TON  
→ \$4 - \$6 MILLION ±15% CONTINGENCY

# DESIGN OPTION: STRIP EXISTING AND REBUILD

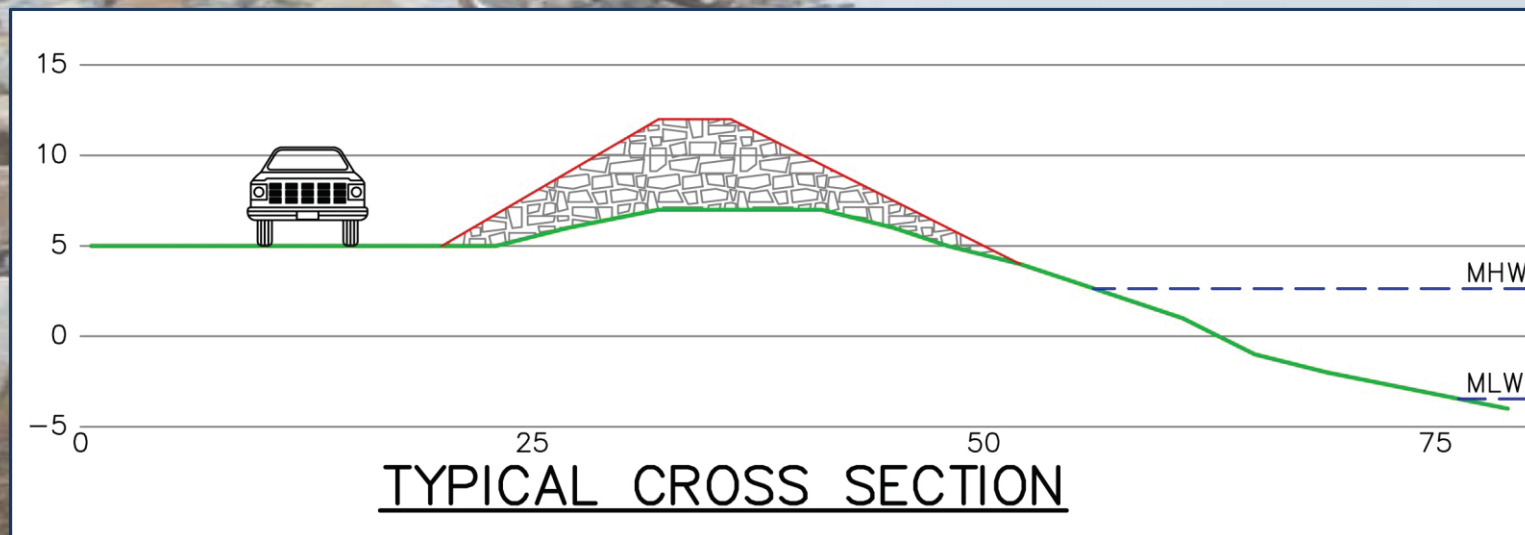
- REMOVE AND STOCKPILE EXISTING STONE
- PREPARE GRADE – ADD FILL
- INSTALL NEW FILTER FABRIC
- REPLACE AND ADD NEW STONE



- LABOR INTENSIVE: \$600 - \$900 PER TON
- \$12 - \$18 MILLION

# DESIGN OPTION: INCREASE FRONT SLOPE

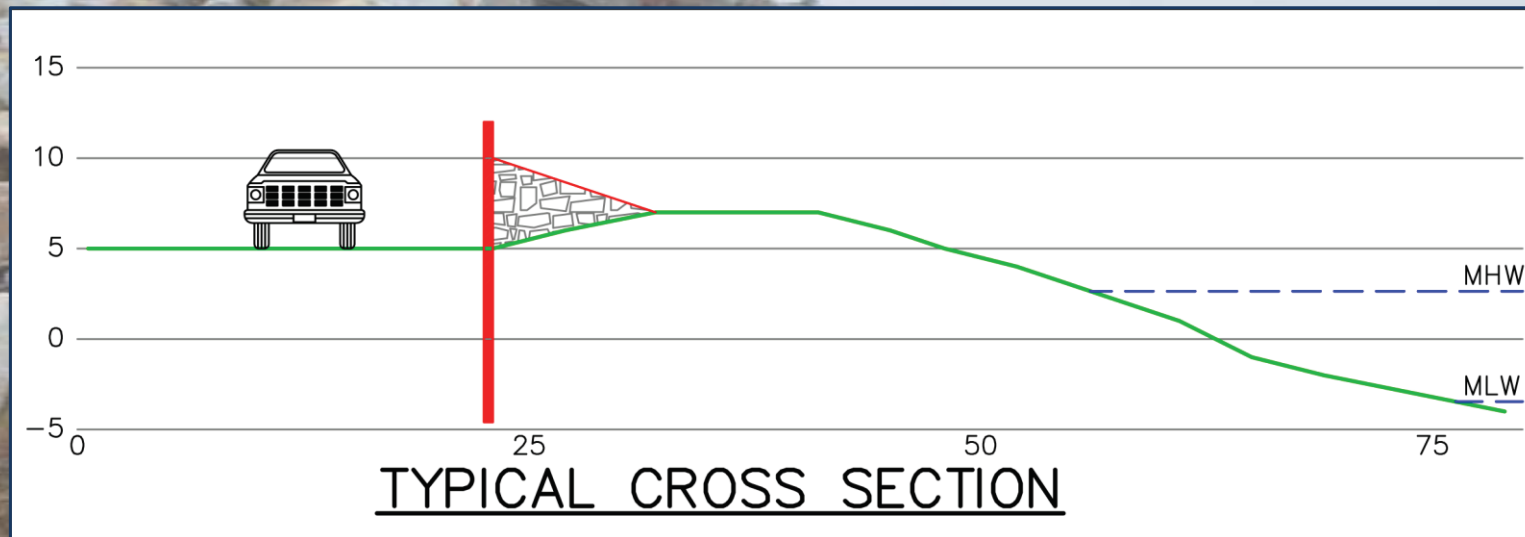
- INCREASE FORWARD SLOPE
- INCREASE CREST HEIGHT
- ADD APPROXIMATELY 10,900 TONS



- \$2.18 – \$3.27 MILLION ±15% CONTINGENCY

# DESIGN OPTION: INSTALL BULKHEAD

- STEEL OR COMPOSITE SHEET PILE
- VERBAL DISCUSSION WITH OCRM INDICATED INITIAL APPROVAL



- \$500 TO \$2000 PER LINEAR FOOT DEPENDING ON SHEETING TYPE AND LENGTH
- \$1.15 – \$4.6 MILLION

## **PROJECT APPROACH:**

- **DETERMINE DESIGN CRITERIA (DESIGN EVENT)**
- **IDENTIFY AND PRIORITIZE REVETMENT SECTIONS**
  - **CRITICAL**
  - **DEFERRED 6 MONTHS**
  - **DEFERRED 1 YEAR**
- **USE A COMBINATION OF DESIGN OPTIONS TO MEET DESIGN CRITERIA AND OPTIMIZE COST**
- **CONSIDER CONSTRUCTION PHASING**