



Figure 6. Shore Protection Master Plan

IV. Conclusion

The dominant incoming wave is from the Northwest. The incoming waves with a maximum height of 1.1 meters from the southwest and south. Based on the hydrodynamic analysis, the pattern of longitudinal or long shore sediment transport from the northwest to the southeast can be a trigger for coastal erosion in the Batu Layar road section. This result also matches the Batu Layar sedimentation pattern as seen from the Google Earth interpretation. From the analysis of wave height and direction of arrival, it is found that the most appropriate coastal building in overcoming coastal problems in Batu Layar is a combination of retaining walls and groynes. The retaining wall aim to protect the road above it from maximum waves, and the groyne serves to maintain the balance of sediment transport on the Batu Layar coastline.

V. Reference

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