Boutique Beach Restoration: Sandals Royal Bahamian Resort

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“Boutique” Beach Restoration

• Modest Shore Length ( ~ 300 to 1000 feet)
• Semi-Isolated Littoral Cell
• Recreation Amenity
• Compressed Timescale ( ~ 3 to 12 months)
• Budget Limited
• Constrained Construction Activity/Access
Pre-Project Conditions
SITE SURVEY

THE SEA

[Diagram of a coastal site with various labeled sections and measurements]
Predicted Astronomical Tide – Chart Datum

Measured Water Levels – Temporary Survey Datum

survey datum correction to tide levels
Hotel-side Plan of Improvement

0.4 x Gap at design MLWL

0.4 x Gap at design MLWL
Beach Fill Construction Plan & Groin Detail
Hotel-side Improvements

- Sand Fill 10,800 cu.yds. @ $37/cy = $ 400K
- Relocate Boulders 820 tons @ $104/tn = $ 245K
- Import Boulders 1520 tons
Hotel-side Improvements

- Sand Fill
  - 10,800 cu.yds. @ $37/cy = $400K
- Relocate Boulders
  - 820 tons @ $104/tn = $245K
- Import Boulders
  - 1520 tons

$340K

“value engineering”
REMEMBER TO OUT-KAILING

[Image of a beach and stairs leading down to the water with the words "REMEMBER TO OUT-KAILING" superimposed over the image.]

[Image of stairs leading down to the water with a logo for Olsen Engineering in the bottom left corner.]
Sandals Cay – South Shore Improvement Area
Island South-Shore Improvements

- Sand Fill 9,900 cu.yds. @ $29.26/cy = $290K
- Import Boulders 4,835 tons @ $105/tn = $510K
- Pier Extension 1,000 sq.ft @ $100/sf = $100K

$900K
Sandals Cay – South Shore Improvement Area
Island South-Shore Improvements

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- Pier Extension 1,000 sq.ft @ $100/sf = $100K

Total: $350K
Sandals Cay – South Shore Improvement Area
(Constructed Plan)
Sandals Cay – North Shore Project Area
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CONSTRUCTION - NORTH SHORE
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