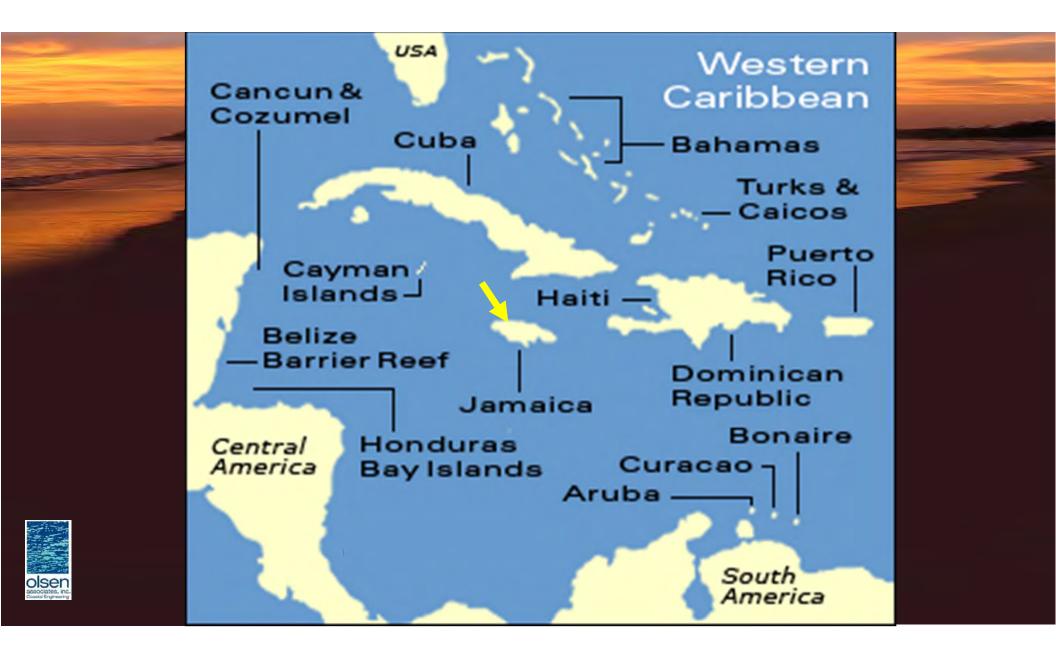
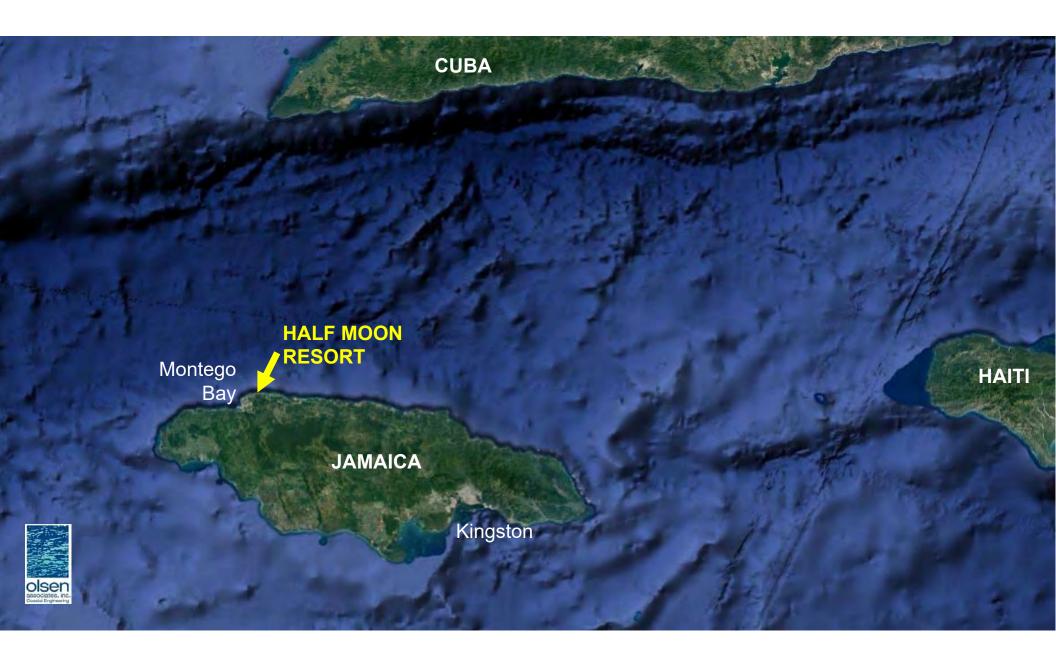
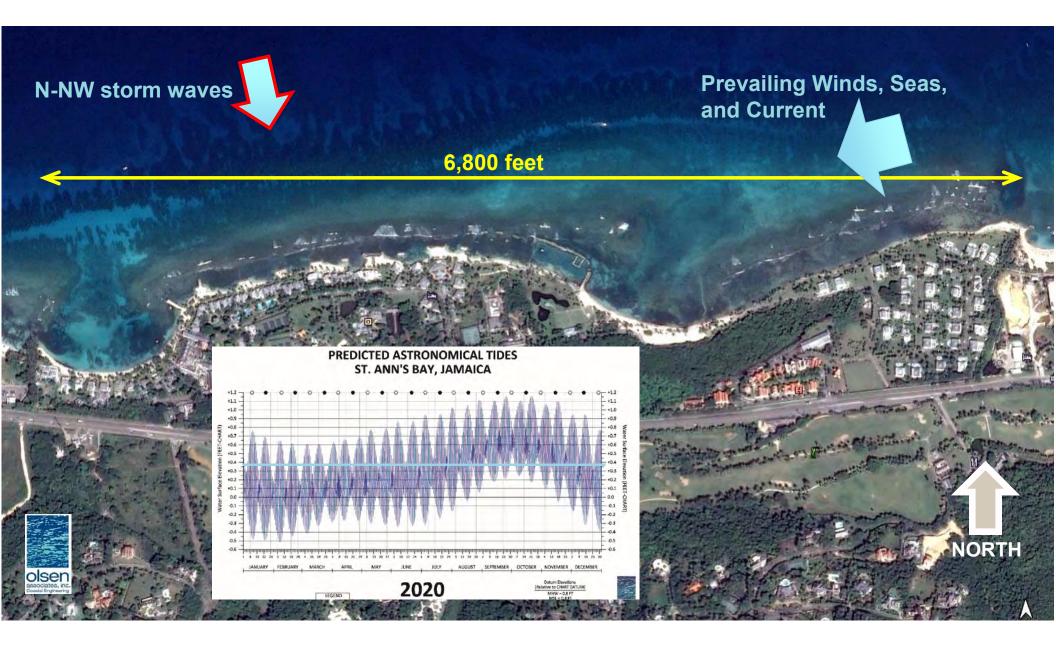
Re-Engineering a Resort Shoreline: Half Moon, Jamaica

Kevin R. Bodge, PhD, PE

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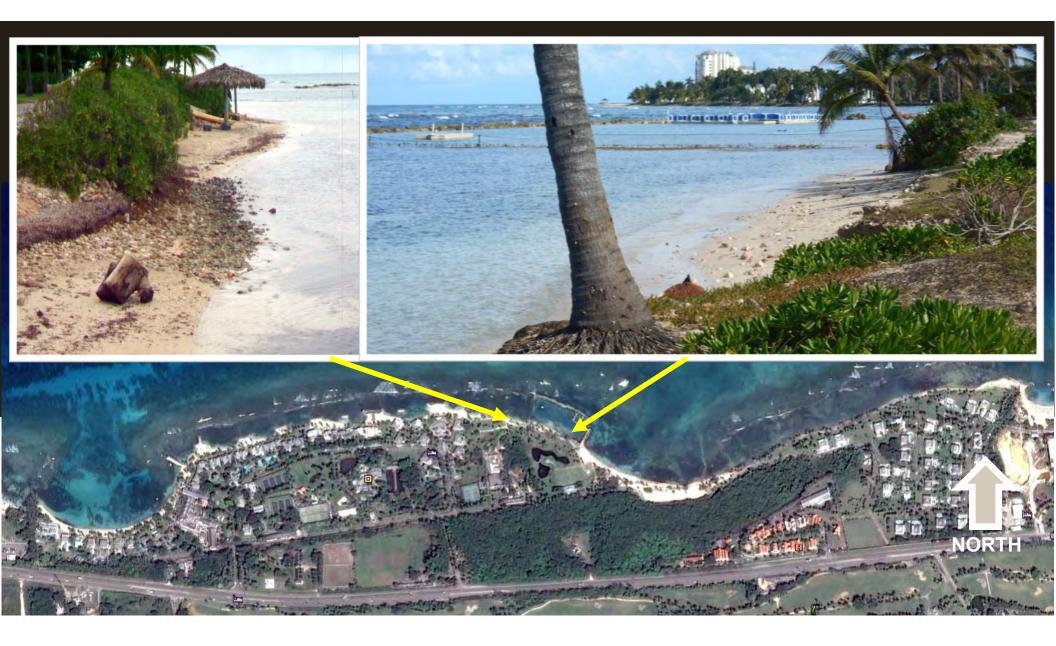


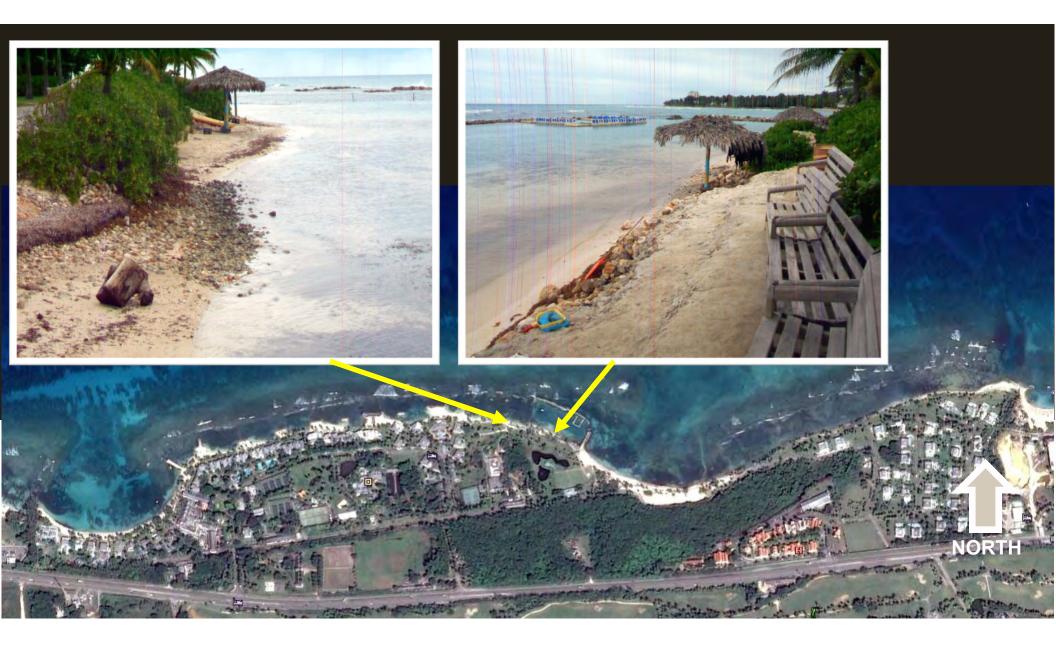














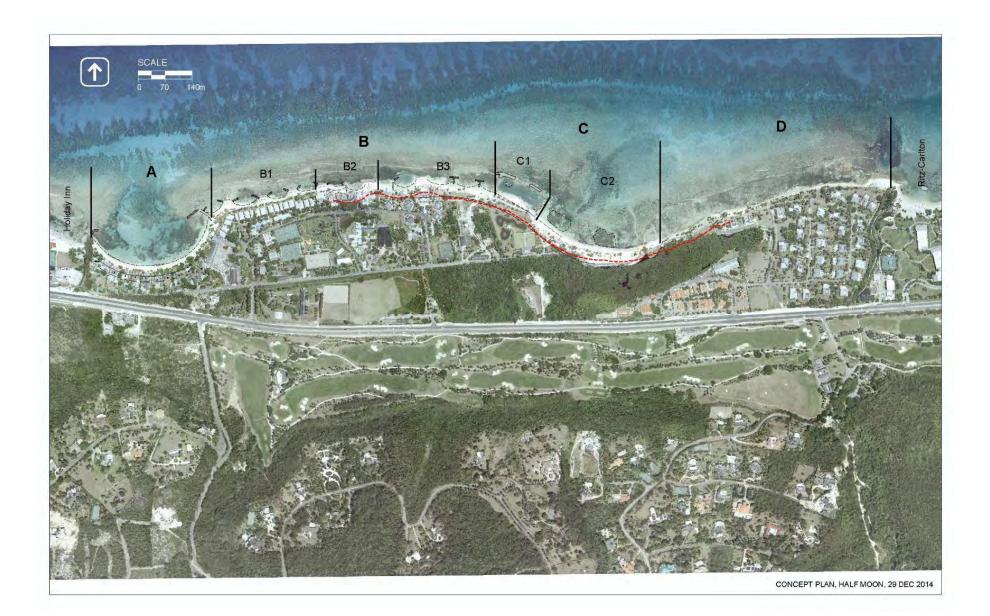


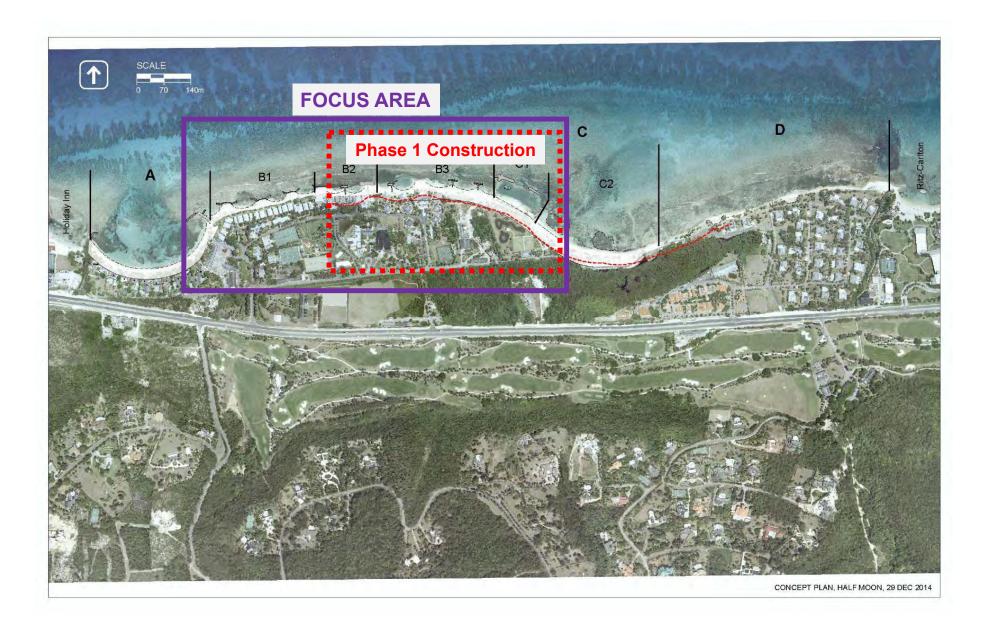




2014

- Eroded beach; no continuous shoreline.
- Non-functional groins & breakwaters; active seawalls.
- Degraded dolphin swim area.
- No connection (path) along the oceanfront.

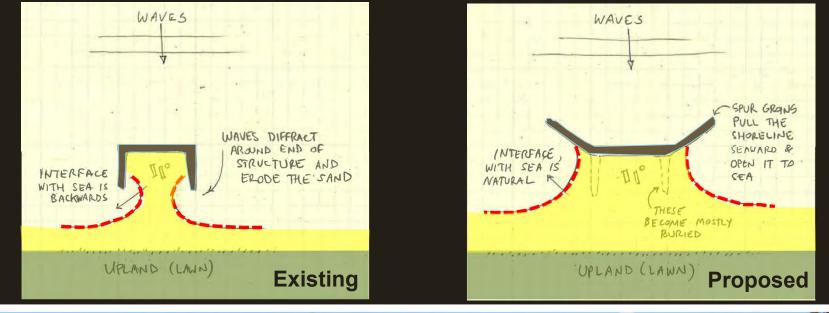




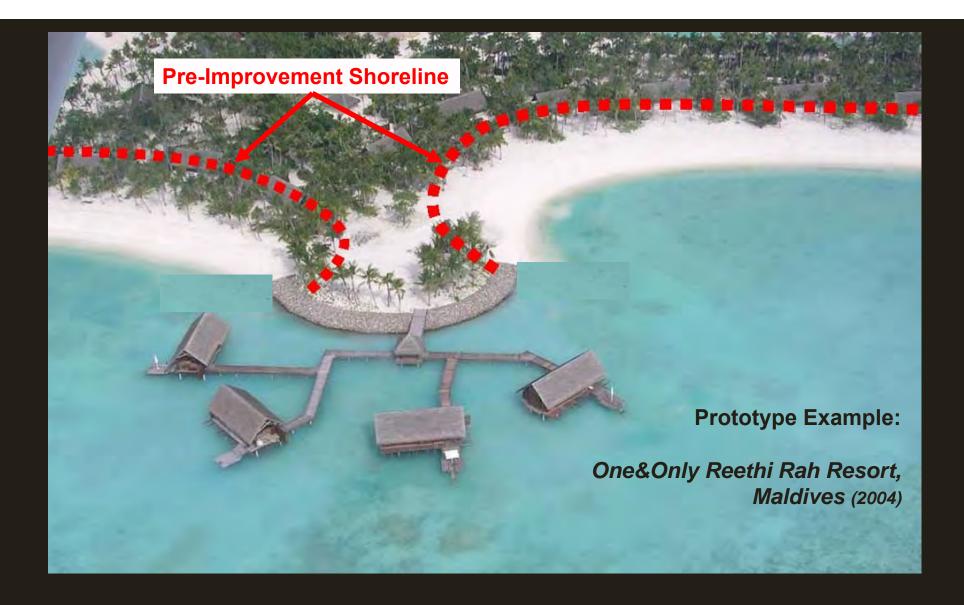


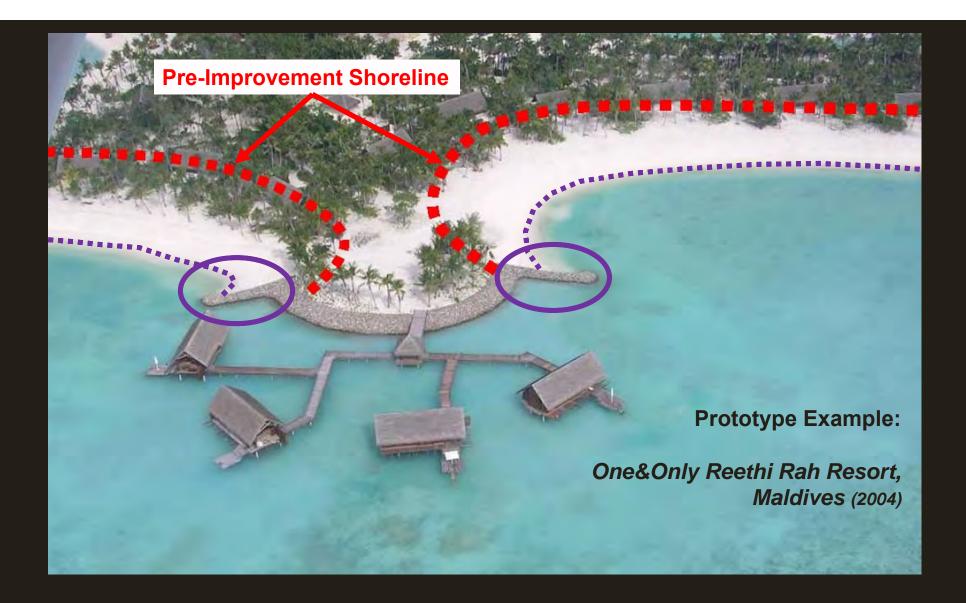






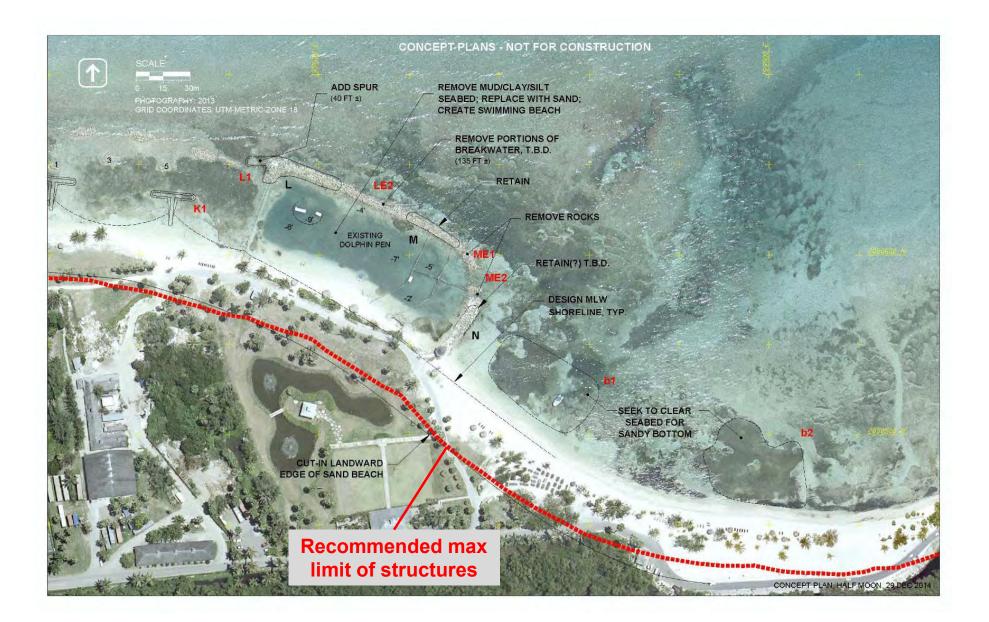


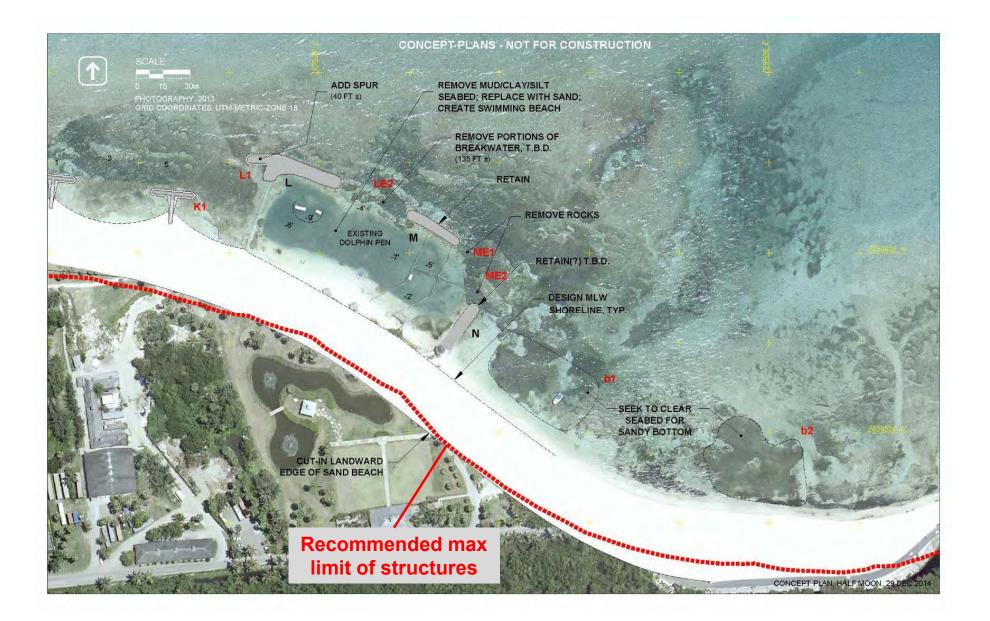








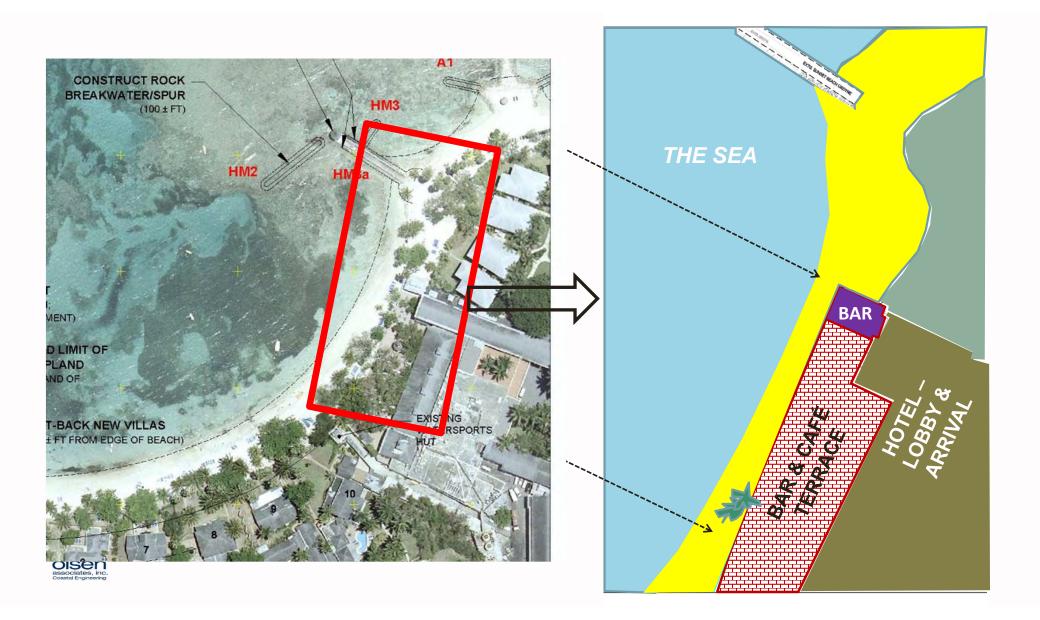


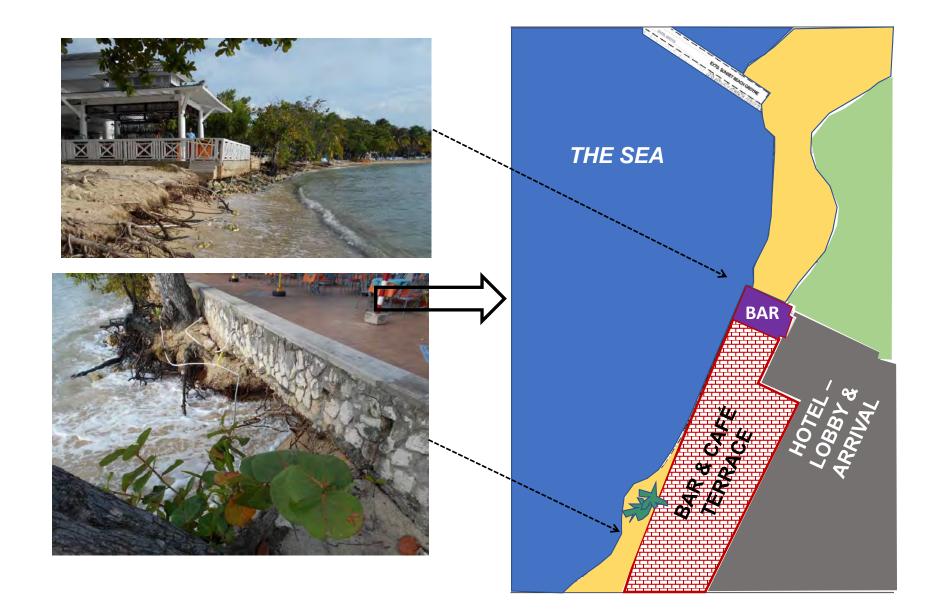


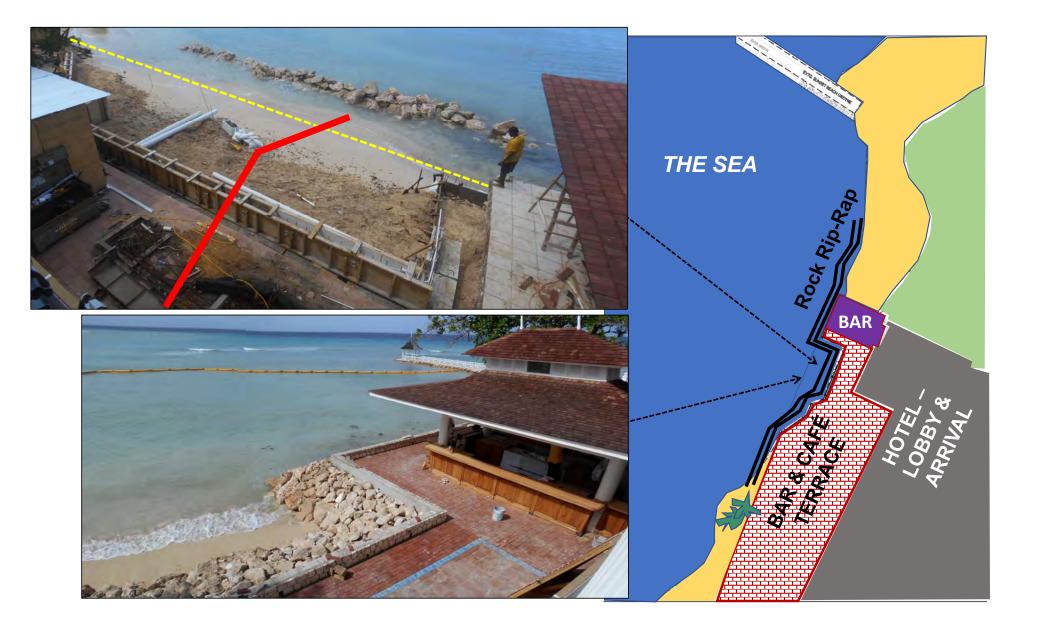
Key Features:

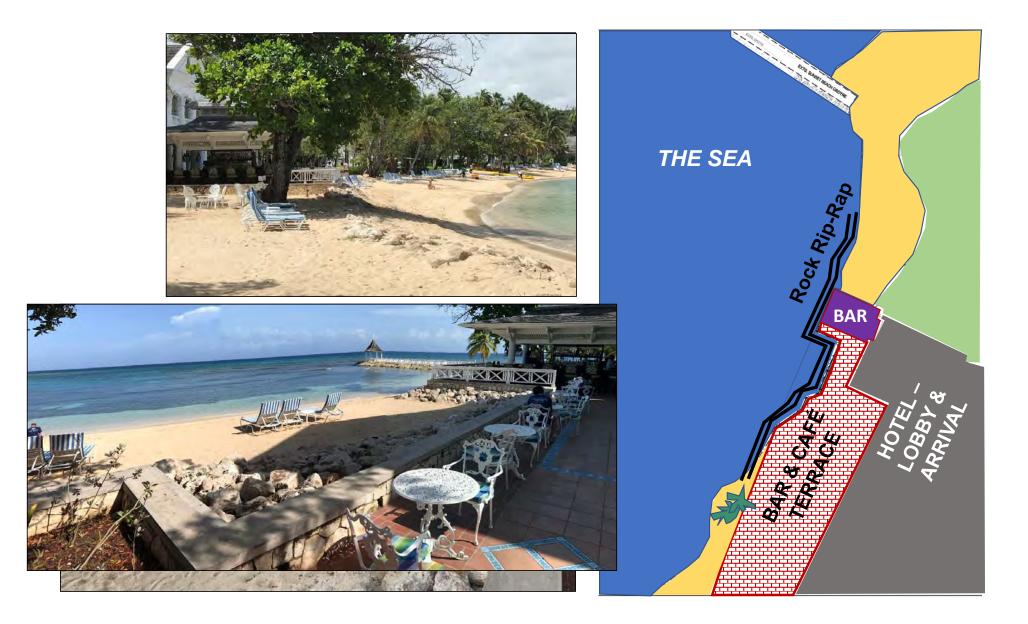
- Demolish oceanfront buildings & seawalls;
- Re-build landward.
- Re-configure coastal structures; add beach fill
- Keep existing shoreline location;
- Expand beach into upland.
- Connect shorefront with a continuous promenade.
- Raise the upland site elevation by 4+ ft;
- Raise bottom floor elevations.
- Modify stormwater; route overflow pipes through groins.

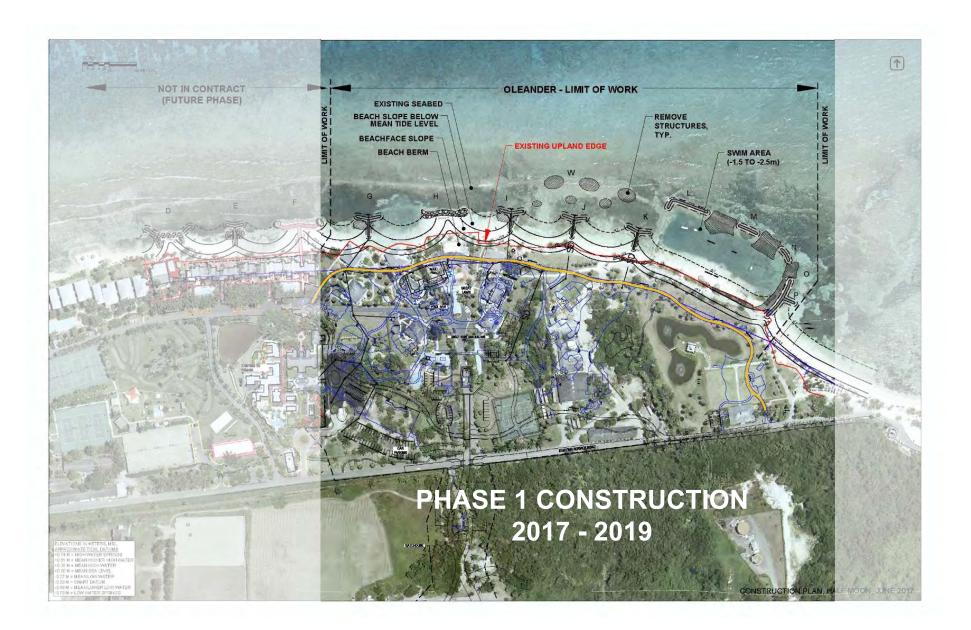


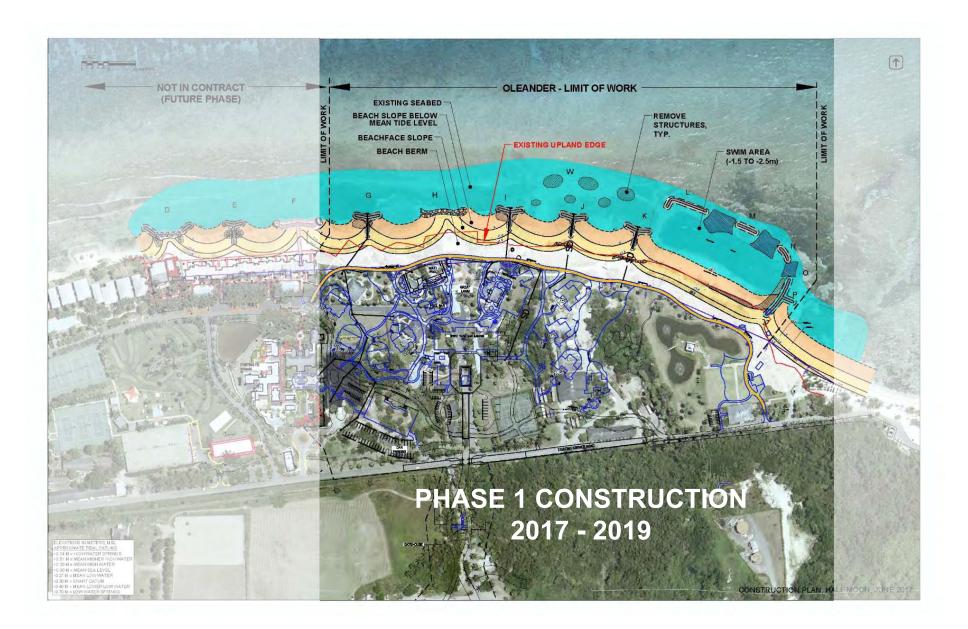


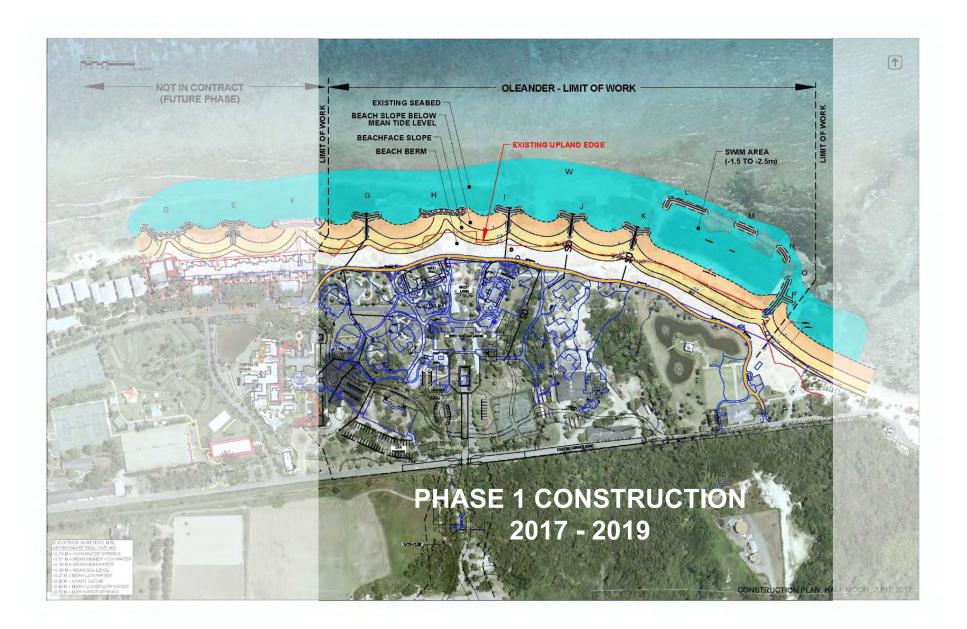


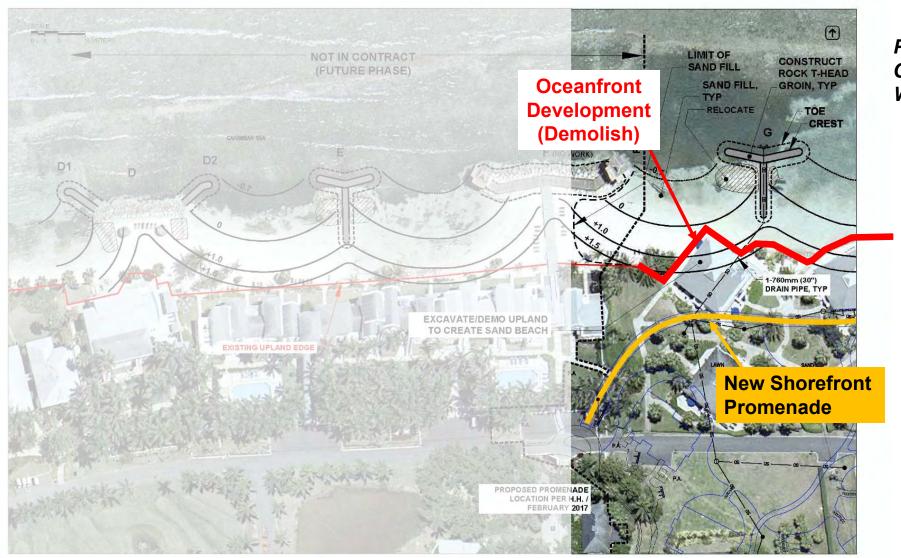




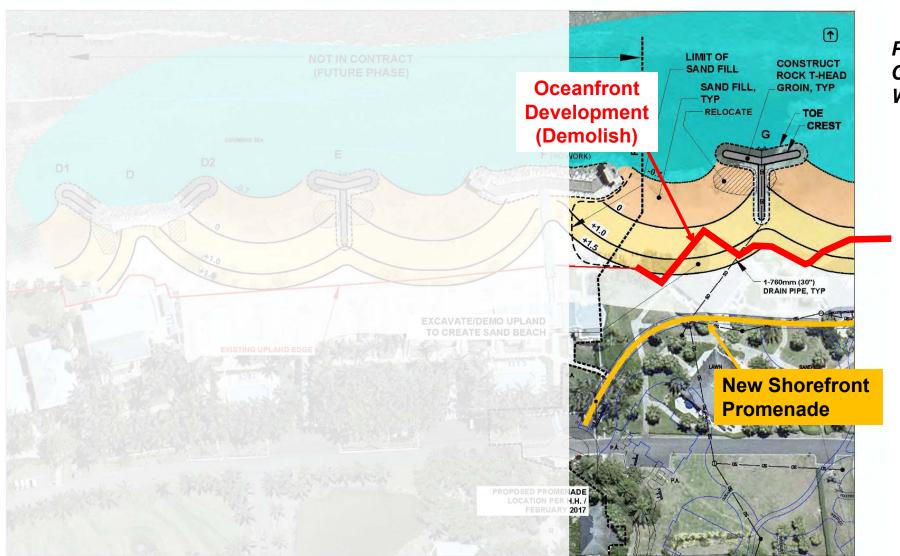




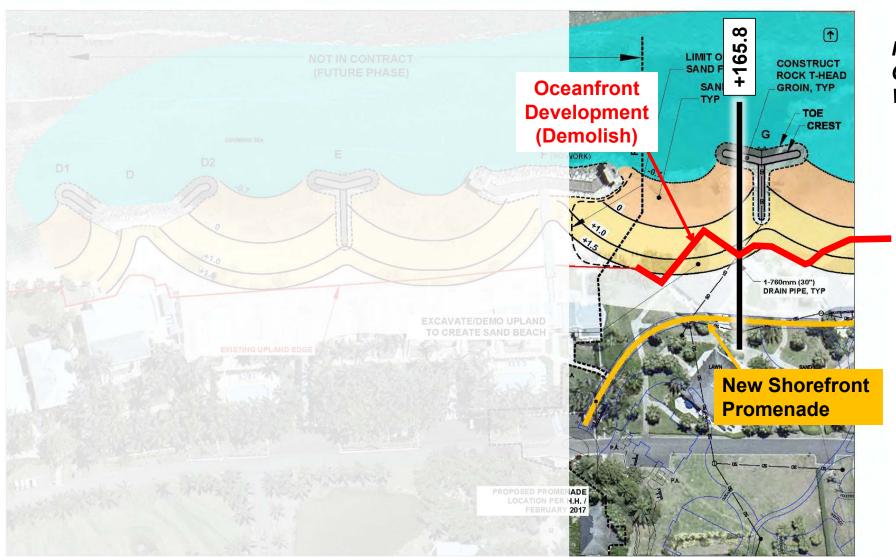




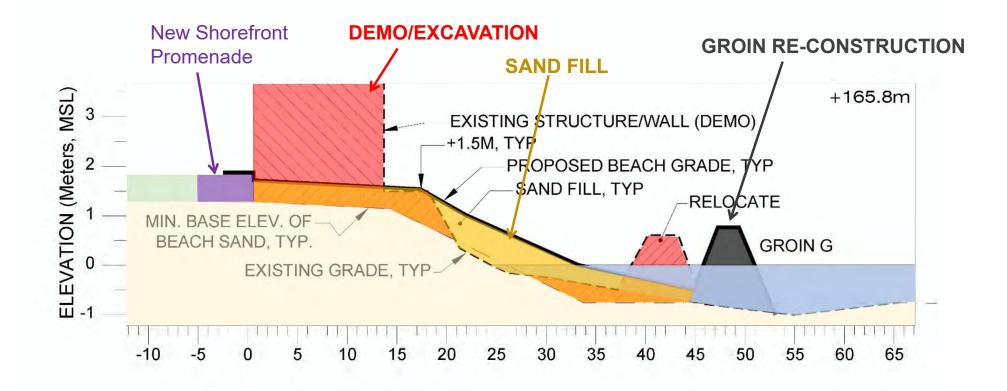
Phase 1 Construction: West End

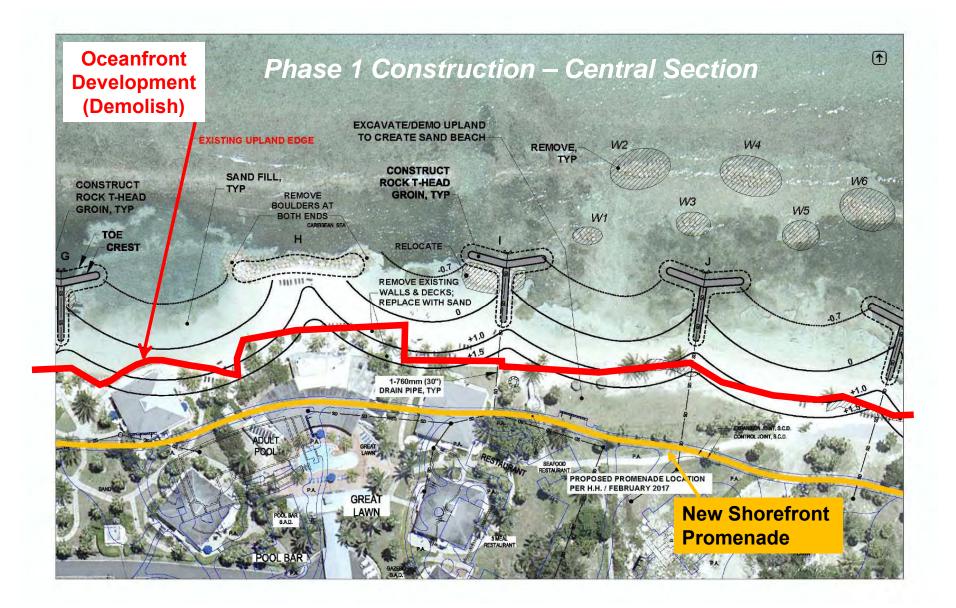


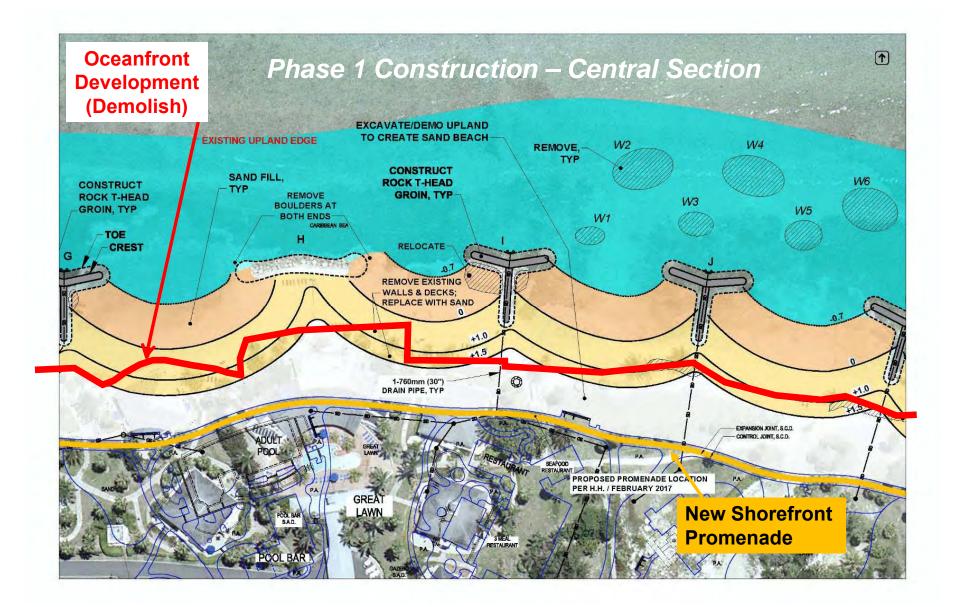
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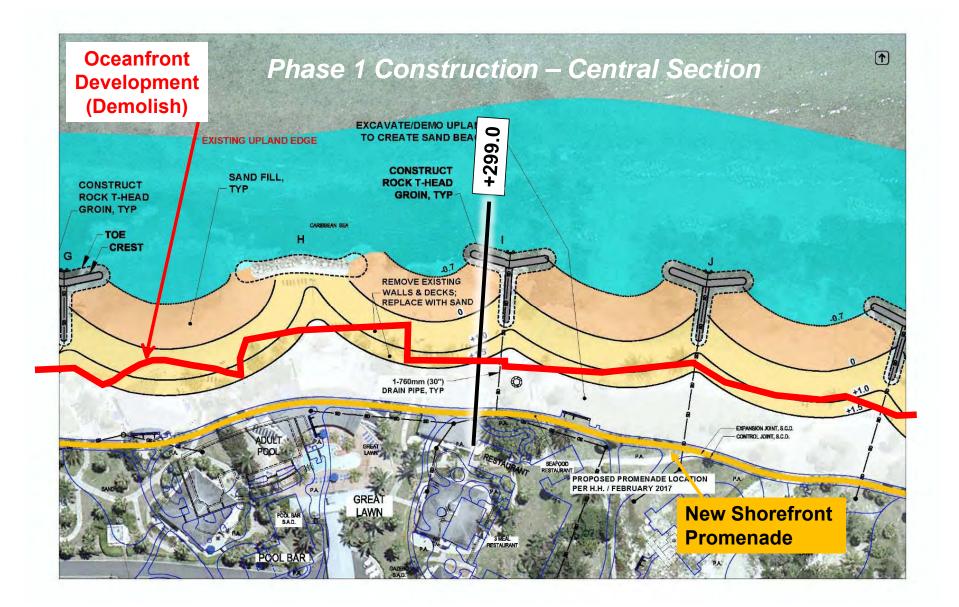


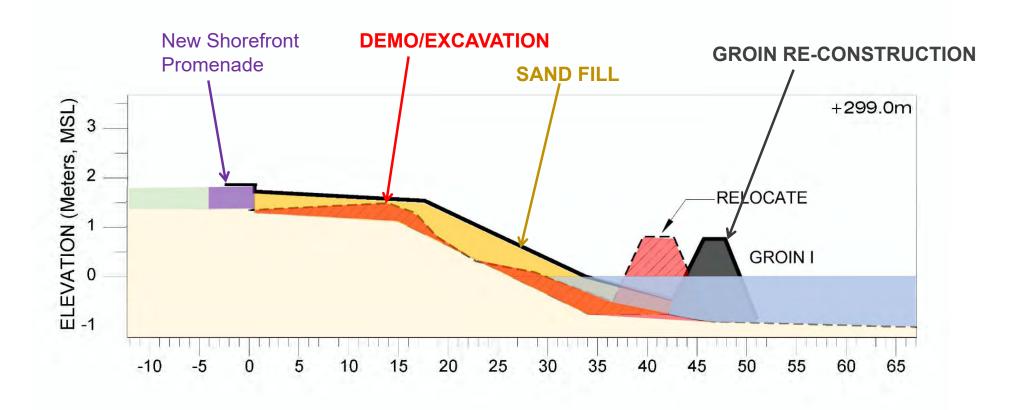
Phase 1 Construction: West End

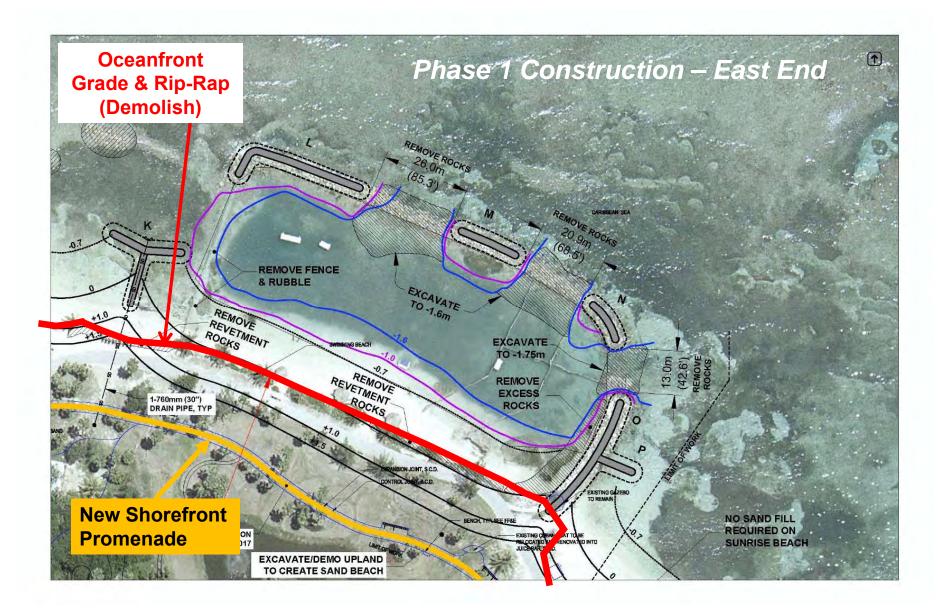


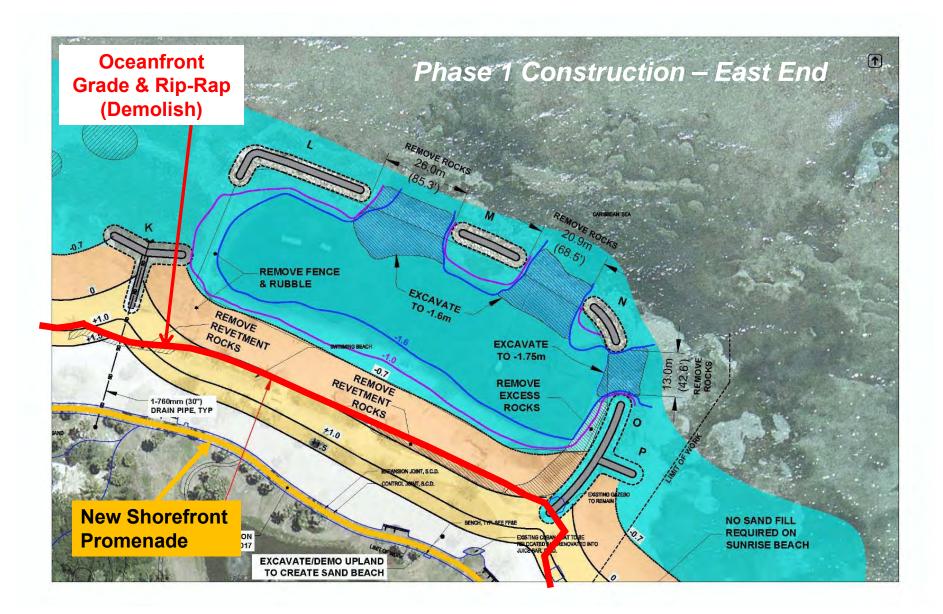


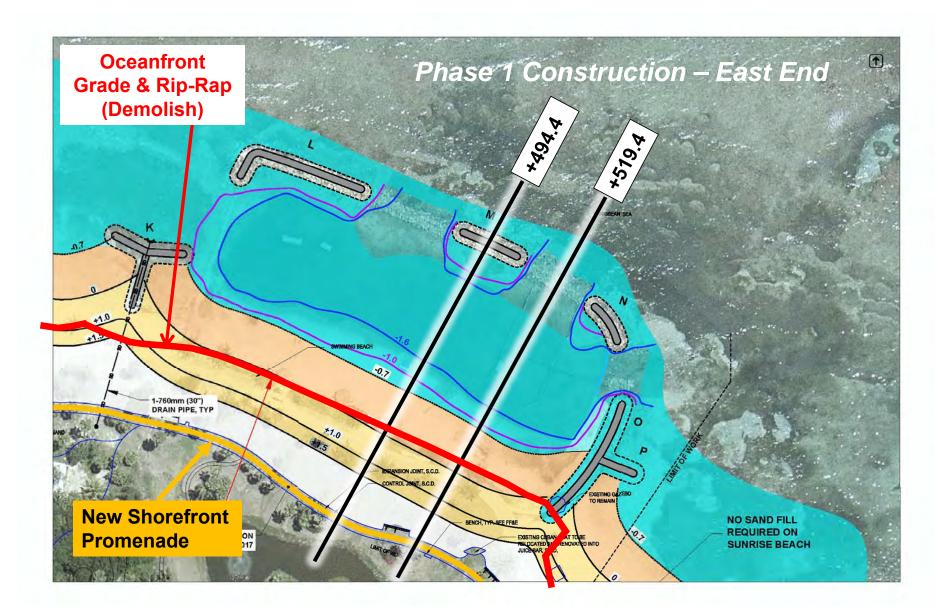


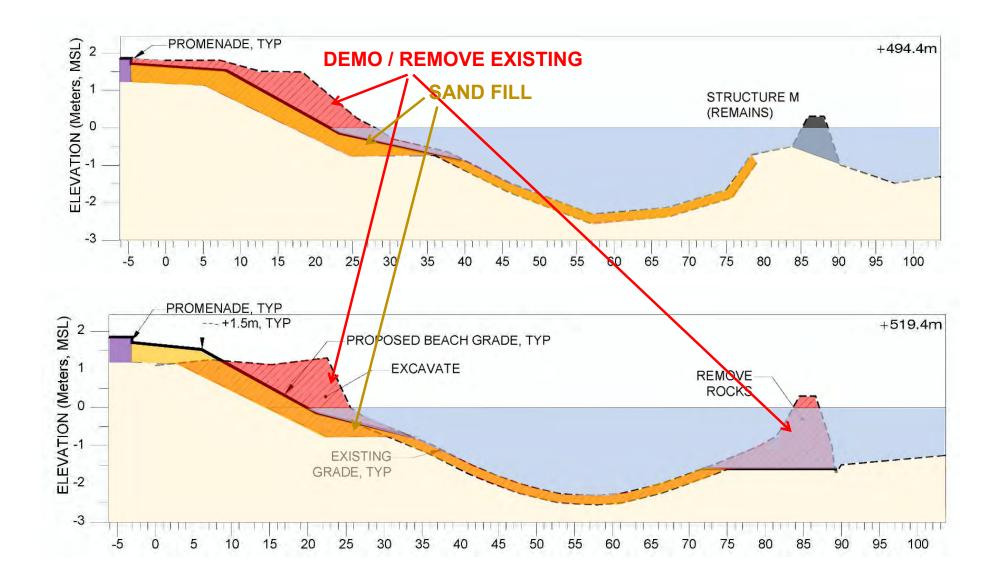
















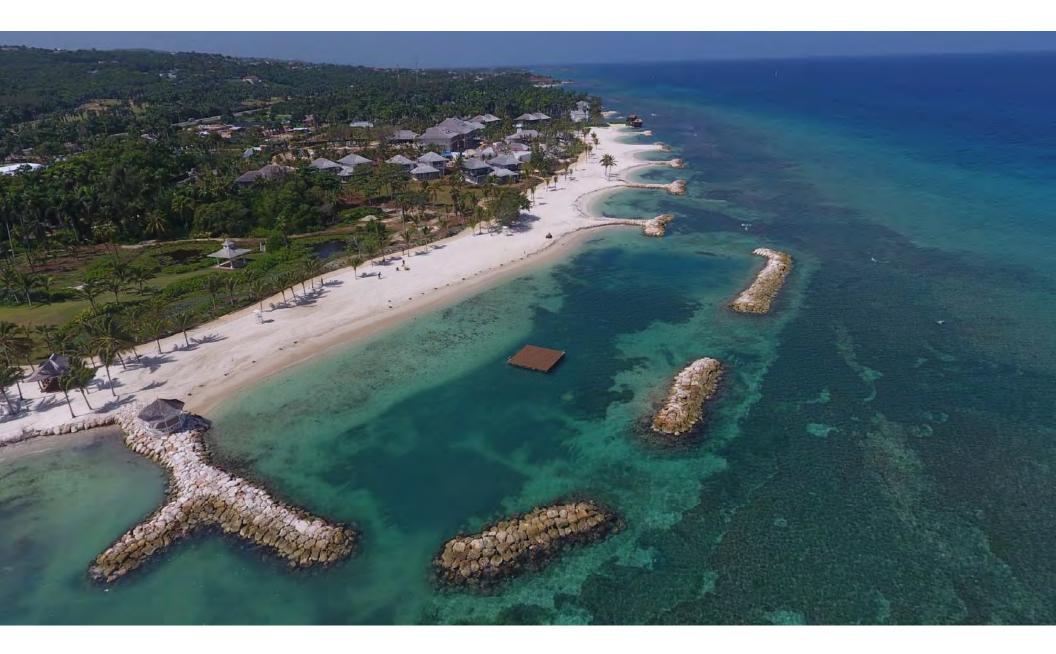














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With special acknowledgement to HALF MOON RESORT and HART HOWERTON