Restoration of the Salton Sea

Volume 2: Embankment Designs and Optimization Study

Appendix 2D: Risk Analysis

Attachment A: Project Drawings
Saline Habitat Complex

Equal Head Mid-Sea Barrier

Brine Pool
(Elev = -261.4 ft)

Saline Habitat Complex

Marine Lake
(Elev = -261.4 ft)

Legend

- Sea Water Pipeline
- Trench to Sea Water Pumping Plant
- Trenches To and From Controlled Outlet Tower
- Sea Water Pumping Plant
- Controlled Outlet Tower
- Pup Fish Channel (Shared With River Distribution Channel)
- River Water Distribution Channel
- Mid Sea Barrier with Crest at 245 ft
- Sediment Detention Basins
- Saline Habitat Complex (21,700 acres)
- MidSeaBarrier_245

Depth of Marine Lake (feet)

Depth
- 0 to 5
- 5 to 10
- 10 to 15
- 15 to 20

Miles

0 2 4 6 8 10 12

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Project: 711800  By: KAF/CL  Date: April 2007

Alternative No. 2
Mid-Sea-Barrier / South Marine Lake

FIGURE D.A.2
TYPICAL CROSS-SECTION OF MODIFIED ROCK NOTCHES WITH MAXIMUM SEISMIC FILTERS
TYPICAL CROSS-SECTION OF NORTH SEA SAND DAM WITH STONE COLUMNS

NOTES
SOLID LINES SHOW THEDETAILED SECTION USED IN STABILITY AND SEEPAGE ANALYSES. DASHED LINES SHOW THE SECTION FOR CONSTRUCTION USING CONVEYOR PLACEMENT METHODS.

LEGEND
- SAND/GRAVEL EMBANKMENT FILL (TYPE A): FIVE TO COARSE SAND AND GRAVEL MIX WITH MAXIMUM 5/8-INCH GRAVEL SIZE AND MAXIMUM USE FIES SUITABLE FOR COMPACTION WITH STONE COLUMNS
- SAND/GRANULIC SHELL (TYPE B): FIVE TO COARSE SAND AND GRAVEL WITH VARIABLE FES NOT INTENDED FOR COMPACTION WITH STONE COLUMNS
- TYPE A WITH STONE COLUMNS: 3" DIA. STONE COLUMNS, 10" ON CENTER, INSTALLED IN TYPE A SAND/GRANULIC (TRIANGULAR PATTERN)
- D-RIP RAP SLOPE PROTECTION: 1'-4" DIAMETER SOUND AND DURABLE QUARRY ROCK DUMPED UNDERWATER

0 50 100 150 200 250 300 SCALE IN FEET

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"OPTIMIZED" NORTH-SEA DAM WITH STONE COLUMNS

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Property #: 0323
By: KANG, J.W.
Date: August 2006

FIGURE D.A.10