

COMERCIALIZADORA LA JUNTA GRAIN IMPORT TERMINAL



PROJECT: Greenfield Soybean Import Terminal

LOCATION: Manzanillo, Mexico

CLIENT: Comercializadora La Junta S.A. DE C.V.

SERVICES: Conceptual Design, EPCM Services, and Commissioning

DESCRIPTION

River Consulting provided complete engineering, procurement, and construction management services for the design and construction of a new soybean import facility in southern Mexico. The \$23 million grain import terminal utilizes two 25,000 metric ton capacity monolithic concrete domes for storage.

The conveying system was designed to transport the material via overhead belt conveyors and reclaim is accomplished by gravity onto a belt conveyor in the underground tunnel below the domes.

The domes were constructed with a bulkhead door that is opened when gravity reclaim is completed, to allow front end loaders to enter and push the remaining grain into the conveyor inlets. Due to difficult soil liquefaction and earthquake potential, the project required a unique foundation solution involving a combination of vibro-compaction and cast-in place concrete piling.

Design and construction was tailored to locally available skills, materials and construction technology. River Consulting investigated materials and equipment that could be locally acquired and determined what needed to be imported.

PRINCIPAL FEATURES

- 800 foot platform dock capable of berthing Panamax class vessels
- Rail mounted mobile mechanical ship unloader for unloading of grain to continuous dock belt
- 2,000 mtpd inbound ship receiving rate
- Weighing, sampling and rail/truck loading at 1,000 mtpd to five parallel loadouts
- Rail car progressioners for automated rail loading
- Two 25,000 metric ton monolithic concrete domes



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