

Raising the Lake Ray Hubbard Bridge

The Texas Department of Transportation simply calls it Section 32 - though there's nothing simple about it.

As a critical part of the President George Bush Turnpike Eastern Extension (PGBT EE) project in Dallas, TX, the \$180 million Section 32 consists of interchange ramps and 2 three-lane bridges that span Lake Ray Hubbard to connect the Interstate Highway 30 to the Turnpike.

The 1.3 miles of bridge spans are constructed from barges in the middle of the lake. The heavy-highway bridge contractor wanted to avoid the costs and risks involved in dual-crane lifts so they turned to Essex Crane Rental Corp.

Essex provided a Manitowoc 2250 SIII crawler crane to lift the over 500 pre-stressed concrete beams covering 115 spans.



Essex's Manitowoc 2250 SIII lifts 105' long and 142,000 lbs beam at 55' radius

The Manitowoc 2250 SIII is equipped with 190' main boom and is positioned on timber mats on top of a 7' deep barge. In order to increase efficiencies, the bridge contractor has the delivery trucks drive right onto the barge rather than unload on shore. Once the supply barge is in position, the Manitowoc 2250 can pick and set the beam in 10 minutes. This allows the bridge contractor to average 10 beam placements per day.

Construction began on the bridges in December 2009, and it is slated to be complete in 4th Qtr. 2011. Once constructed, Section 32, in concert with the rest of the PGBT EE project, will improve mobility and reduce congestion for motorists in the area. Essex is committed providing its customers with the most dependable cranes in the industry. This bridge project provides another example of how everyday Essex works to help keep its customers on schedule and budget.



"Helping You Stay on Schedule & Budget"

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Crawler Cranes

<u>Manufacturer</u>	<u>Model</u>	<u>Tons(US)</u>
Manitowoc	3000W	65
Manitowoc	3900	100
Liebherr	LR1100	115
Manitowoc	3900W	140
Manitowoc	4000W	175
Manitowoc	777	200
Manitowoc	888	220
Manitowoc	14000	220
Manitowoc	4100W	230
Manitowoc	999	275
Liebherr	LR1200SX	275
Manitowoc	2250	300
Liebherr	LR1300	330
Manitowoc	16000	440

Duty Cycle

<u>Manufacturer</u>	<u>Model</u>	<u>Tons(US)</u>
Liebherr	HS855SX	115



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