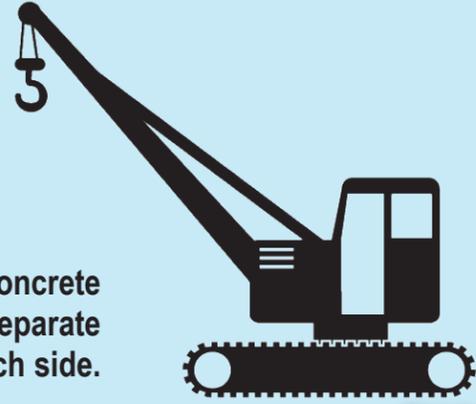


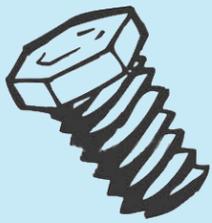
Mathon Drive Bridge Facts Stage 1

3 Cranes

It takes 3 cranes to set some of the steel girders that support the concrete bridge deck. The girders are 4 feet tall and each "line" consists of 5 separate steel girders that are bolted together with $\frac{3}{4}$ " thick steel plates on each side.



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7000 Bolts

7,000 bolts, washers, and nuts were installed to join this stage together. Bolts ranged from 2-1/4" long to 4-3/4" long x 7/8" diameter.

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6000 Studs

6,000 shear studs (steel posts) were welded in groups of three to the top of the girders to lock the concrete deck to the girder. Each of these 6,000 studs had to be tested after installation by hitting them with a hammer and listening for a "pinging" sound.



[Click for Photo](#)

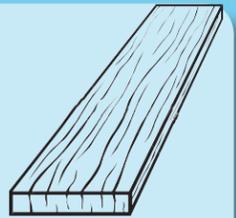
6 Girders

There are 6 lines of girders. Each bolted length measures 330 feet long. 30 sections were installed during this stage.

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11,700 sq ft of Plywood

11,700 square feet of plywood was used (and will be reused) to frame the deck to hold the concrete in place while it cures. This is equivalent to 366 4'x8' sheets of plywood



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12 Concrete Trucks

The concrete pour lasted 6 hours and required 30 workers to place and finish the concrete. 7 material testing personnel made sure the concrete was mixed correctly. 12 Redi-mix concrete trucks delivered the material to the work site. The concrete deck was placed and consists of 380 cubic yards of concrete, equal to 770 tons of concrete.



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100,000 lbs of Reinforcing Steel

100,000 pounds of reinforcing steel was placed on the framing by Iron Workers who tied the bars together with wire. The reinforcing steel ranged in size from 5/8" in diameter to 1" in diameter up to 30' long.

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