



Daily Diary Report by Bid Item

Contract No.: 04-0120F4

Diary #: 035 Const Calendar Day: 189 Date: 16-Mar-2010 Tuesday
 Inspector Name: Wilcox, Jason Title: Transportation Engineer
 Inspection Type: Intermittent
 Shift Hours: 06:30 AM 17:00 PM Break: 00:30 Over Time: 02:00

04-0120F4
 04-SF-80-13.2/13.9
 Self-Anchored
 Suspension Bridge

Federal ID:

Location:

Reviewer: Jefferson, Paul Approved Date: 24-Sep-13 Status: Approved

Weather

Temperature 7 AM 40 - 50 12 PM 50 - 60 4PM 50 - 60
 Precipitation Condition Partly Cloud

Working Day If no, explain:

Diary:

Dispute

OBG Bolting & Welding

FIELD WORK:

Arrived on site with Bob Brignano to meet Chris Bausone to remove some bolts in a couple of areas of the U-ribs in Splice 3. There was concern about some bolts that were "overturned" according to the procedure. The turn-of-the-nut procedure calls for these bolts to be turned one-half turn with a tolerance of +30 degrees. Some of the bolts were turned one half +90 or more. These bolts were removed and checked to see if the nut spun down the shank of the bolt easily or whether necking occurred, distorting the bolt. During RoCap testing, necking occurred far beyond the one half +30 degree turn point. The RoCap turned the nut a full turn to make sure that the fastener assemblies are made of acceptable material. Some of the removed bolts had difficulty in spinning the nut down the shank of the bolt. It was concluded among the three of us that these bolts were tightened too much, decreasing the serviceability of the bolts. They were replaced with new bolts and then pretensioned. At U-rib #21, on the North splice plate, 34 bolts were replaced and on the South splice plate 9 were replaced. At U-rib #25 one bolt was removed that was tightened one half turn + 90 degrees, at least, and did not exhibit the aforementioned difficulty in spinning the nut down the shank. It was apparent that the concern was localized to U-rib #21, and the questionable bolts were removed and replaced. Now, there remains 8 U-ribs to test. These were not tested because there was concern about the over tightened condition of the bolts as well as the marking on the bolts. Since then, it was agreed to check some bolts as we did today. The remaining U-ribs have not been tested because of the Crossbeam being erected and there are no ironworkers to perform the testing.

Bolting continues at Crossbeam 1, (CB1). Dan Hester had a concern about some bolts on the top splice plate stiffeners being flush. Bob and I took a look and concluded that the bolts have engaged all of the nuts threads and can be considered "flush." Dan said that the bolts in this connection are 100mm long, and that the next size up is 110mm, which would violate our 6mm stick-out limit on bolted connections. Bob said he would look into that statement. While looking at this connection I observed that the top splice plate stiffeners were not aligned well with each other and suggested that they tighten the top plate prior to pretensioning the stiffeners so there is no misaligned splice plates prior to their pretensioning. The ironworker agreed that they were going to do that.

Dan also said that the thickness of the interior wall of the Crossbeam and the wall it connects with on 2E differ. There is a 2mm difference that they are going to make up for by adding 2mm shims in the connection. This was confirmed by asking Tai-Lin Liu.

Splice 1:

- Edge Plate welding continues on both sides.
- Setting up for back gouging the backing bar at the Bottom Plate weld.

Splice 2:

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·Top Deck seal weld on both sides of the backing bar started and completed . Accrued 2 hours of overtime covering and documenting the Contractors operations.			
04-0120F4	Bid Item: 056	E-L02-ALB.056	E Line Lift 02 Align & Bolt
AMERICAN BRIDGE/FLUOR, A JV			
04-0120F4	Bid Item: 056	E-L02-WEL.056	E Line Lift 02 Weld
AMERICAN BRIDGE/FLUOR, A JV			
04-0120F4	Bid Item: 056	X-L02-CBM.056	E-W Line Cross Over Lift 02 Cross Beam
AMERICAN BRIDGE/FLUOR, A JV			
04-0120F4	Bid Item: 056	E-L03-ALB.056	E Line Lift 03 Align & Bolt
AMERICAN BRIDGE/FLUOR, A JV			
04-0120F4	Bid Item: 056	E-L03-WEL.056	E Line Lift 03 Weld
AMERICAN BRIDGE/FLUOR, A JV			
04-0120F4	Bid Item: 056	E-L04-ALB.056	E Line Lift 04 Align & Bolt
AMERICAN BRIDGE/FLUOR, A JV			

Attachment



CB1 Interior web bottom splice



CB1 Top Splice Non-flush snug nuts

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Job Name: 04-0120F4

Inspector Name: Wilcox, Jason

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3E/4E Urib 21 Overturned nuts



CB1 Top Stiffener Non-flush nut