

**DEPARTMENT OF TRANSPORTATION**

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch  
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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.28**WELDING INSPECTION REPORT****Resident Engineer:** Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** WIR-015073**Date Inspected:** 16-Jun-2010**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China**CWI Name:****CWI Present:**

Yes No

**Inspected CWI report:** Yes No N/A**Rod Oven in Use:**

Yes No N/A

**Electrode to specification:** Yes No N/A**Weld Procedures Followed:**

Yes No N/A

**Qualified Welders:** Yes No N/A**Verified Joint Fit-up:**

Yes No N/A

**Approved Drawings:** Yes No N/A**Approved WPS:**

Yes No N/A

**Delayed / Cancelled:**

Yes No N/A

**Bridge No:** 34-0006**Component:** OBG Trial Assembly**Summary of Items Observed:**

On this date Caltrans OSM Quality Assurance (QA) Inspector, S. Manjunath Math was present during the time noted above for observations relative to the work being performed.

This QA Inspector randomly observed the following work in progress:

Orthotropic Box Girder (OBG) Trial Assembly Areas

Segment 9CE (Cope Holes)

This QA Inspector performed Dimension Control Inspection for the Floor Beam to Bottom Panel Cope Holes and Floor Beam to Side Panel Cope Holes at Work Point (E4) from West Side at Panel Point (PP) 79 for Segment 9CE the Inspection was performed against the ABF Inspection Report No. CWAHIR-9CE-01 Dated April 12, 2010.

The measured readings was recorded on Dimension Control Form and was submitted to the Lead and Engineer for review.

Segment 10BW (Cope Holes)

This QA Inspector performed Dimension Control Inspection for the Floor Beam to Bottom Panel Cope Holes and Floor Beam to Side Panel Cope Holes at Work Point (W4) from West Side at Panel Point (PP) 89 and PP 90 for Segment 10BW the Inspection was performed against the ABF Inspection Report No. CWAHIR-10BW-01 Dated June 03, 2010. The measured readings was recorded on Dimension Control Form and was submitted to the Lead

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and Engineer for review.

### Segment 11AW (Cope Holes)

This QA Inspector performed Dimension Control Inspection for the Floor Beam to Bottom Panel Cope Holes, Floor Beam to Side Panel Cope Holes, Longitudinal Diaphragm Cope Holes East and West side of each Panel Point at Work Point (W4) from West Side at Panel Point (PP) 95 and PP 97 for Segment 11AW the Inspection was performed against the ABF Inspection Report No. CWAHIR-11AW-01 Dated June 11, 2010. The measured readings was recorded on Dimension Control Form and was submitted to the Lead and Engineer for review.

### Segment 7DW to 7EW (T-Ribs)

This QA Inspector performed Dimension Control Inspection for the T-Ribs at the Transverse Splice T-Ribs to T-Ribs for Vertical Offset at Counter Weight Side T-Ribs for Segment 7DW to 7EW between Panel Point (PP) 58 and PP 59 after Offset adjustment by ZPMC. The Inspection was performed against the ABF request. The measured readings was recorded on Dimension Control Form and was submitted to the Lead and Engineer for review.

### Segment 8BW to 8CW (T-Ribs)

This QA Inspector performed Dimension Control Inspection for the T-Ribs at the Transverse Splice T-Ribs to T-Ribs for Vertical Offset at Counter Weight Side T-Ribs for Segment 8BW to 8CW between Panel Point (PP) 67 and PP 68 after Offset adjustment by ZPMC. The Inspection was performed against the ABF request. The measured readings was recorded on Dimension Control Form and was submitted to the Lead and Engineer for review.

### Segment 8CW to 9AW (T-Ribs)

This QA Inspector performed Dimension Control Inspection for the T-Ribs at the Transverse Splice T-Ribs to T-Ribs for Vertical Offset at Cross Beam Side T-Ribs for Segment 8CW to 9AW between Panel Point (PP) 71 and PP 72 after Offset adjustment by ZPMC. The Inspection was performed against the ABF request. The measured readings was recorded on Dimension Control Form and was submitted to the Lead and Engineer for review.

### Lift 8 West

This QA Inspector performed Dimension Control Inspection for the Radius at FL1/FL3 Floor Beam vertical stiffener to Longitudinal Diaphragm Radius at East and West side of the each Panel Points at Work Points W3 and W4 from Panel Point (PP) 61 to 71. The Inspection was performed against the ABF request. The measured readings was recorded on Dimension Control Form and was submitted to the Lead and Engineer for review.

### Lift 8 East

This QA Inspector performed Dimension Control Inspection for the Radius at FL1/FL3 Floor Beam vertical stiffener to Longitudinal Diaphragm Radius at East and West side of the each Panel Points at Work Points E3 and

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E4 from Panel Point (PP) 61 to 71. The Inspection was performed against the ABF request. The measured readings were recorded in the Dimension Control Form (DCP) and submitted to the Task Leader and Engineer for review.

## Segment 7BW

This QA Inspector performed Dimension Control Inspection for the Cope Holes for Segment 7BW at Panel Point (PP) 50 Work Point W4 location and observed oversize cope hole at Bottom Panel to Floor beam. Please refer the attached pictures for more comprehensive details. The measured readings was recorded on Dimension Control Form and was submitted to the Lead and Engineer for review.

Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.



### Summary of Conversations:

No relevant conversations.

### Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric T Sang 1500-0042-2372, who represents the Office of Structural Materials for your project.

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**Inspected By:** Math,Manjunath

Quality Assurance Inspector

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**Reviewed By:** Carreon,Albert

QA Reviewer