

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



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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-014279**Date Inspected:** 08-May-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:** LI Yang**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:** Orthotropic Box Girder (OBG)**Summary of Items Observed:**

On this day CALTRANS OSM Quality Assurance (QA) Inspector Manoj Prabhune was present during the times noted above for observations relative to the fabrication of the SAS Superstructure being performed by Zhenhua Port Machinery Company (ZPMC) at Changxing Island in Shanghai, China. QA observed and/or found the following:

This QA Inspector randomly observed the following work in progress:

OBG # TRIAL ASSEMBLY YARD**Segment 8BE (Upper and Lower Chevron)**

This Quality Assurance (QA) Inspector witnessed final tension verification for Upper and Lower Chevron (North and South side) at Panel Point (PP) 65, PP 66 and PP 67 for Segment 8BE. Inspected 10% on a random basis and found the tension to be in general compliance. Inspection was performed against the Notification No. 00344 Dated May 8, 2010

Bolt sizes used were M22 x 70 RC Set# DHGM220004 and final torque required was 453 N-m.

Bolt sizes used were M22 x 75 RC Set# DHGM220005 and final torque required was 475 N-m.

Bolt sizes used were M22 x 80 RC Set# DHGM220006 and final torque required was 440 N-m.

WELDING INSPECTION REPORT

(Continued Page 2 of 3)

Manual Torque wrench was been used with Sr. No. XQ2-114. Please refer the pictures for more comprehensive detail.

Segment # 7DW-PP58

Repair Welding.

This QA inspector observed ZPMC qualified welding personnel identified as 066002 perform Shielded Metal Arc Welding (SMAW), weld joint identified as SP442-001-053 and was observed welding in the 4G (Overhead) position; The Welding Repair Report (WRR) was B-WR12418. ZPMC QC is identified as Mr.Cai Xiao Yeng. The welding parameters measured using QC's calibrated instrument appeared to be in general compliance with WPS-345-SMAW-3G (3F)-FCM- Repair. See the attached below Photo.

Segment # 8AE-PP64

Repair Welding.

This QA inspector observed ZPMC qualified welding personnel identified as 053753 perform Shielded Metal Arc Welding (SMAW), weld joint identified as SEG044C-013 and was observed welding in the 3G (Vertical) position; The Welding Repair Report (WRR) was B-WR12877. ZPMC QC is identified as Mr.Wang Li Yang. The welding parameters measured using QC's calibrated instrument appeared to be in general compliance with WPS-345-SMAW-3G (3F)-FCM- Repair-1.

Segment # 7DW

This QA inspector observed ZPMC qualified welding personnel identified as 067665 perform Shielded Metal Arc Welding (SMAW), weld joint identified as OBW7N-012 and was observed welding in the 4G (Overhead) position; ZPMC QC is identified as Mr.Zhang Hai Tao. The welding parameters measured using QC's calibrated instrument appeared to be in general compliance with WPS-B-P-2214-TC-U4b-FCM-1

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



WELDING INSPECTION REPORT

(Continued Page 3 of 3)

Summary of Conversations:

Only general conversation was held between QA and QC concerning this project.

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 Tsang phone: 15000422372, who represents the Office of Structural Materials for your project.

Inspected By:	Prabhune,Manoj	Quality Assurance Inspector
Reviewed By:	Patterson,Rodney	QA Reviewer
