

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:** Siegenthaler, Peter**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** WIR-019909**Date Inspected:** 28-Jan-2011**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:** Liu hua jie**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 date Caltrans Office of Structural Material (OSM) Quality Assurance (QA) Inspector, D.Sukanthan was present during the time noted above for observations relative to the work being performed.

OBG # BAY 10

This QA inspector received ZPMC Non Destructive Testing (NDT) notification 08304 to perform Magnetic particle Testing (MT) of approximately 15% of the area previously tested and accepted by ZPMC Quality Control Personnel. This QA Inspector generated a Magnetic particle Test report for this date. The member is identified as Bike Path. The weld tested is identified as follows:

(BK010A7-001-003,009,010,011,012,132,133,134,135)

(BK010A6-001-069)

This QA Inspector randomly observed the following work in progress:

OBG # CROSSBEAM CB17

This QA observed that no significant work was being performed on this crossbeam during the time QA was present.

OBG # CROSSBEAM CB18

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This QA observed that no significant work was being performed on this crossbeam during the time QA was present.

OBG # CROSSBEAM CB19

This QA observed that no significant work was being performed on this crossbeam during the time QA was present.

OBG # SEGMENT 13BW

This QA observed ZPMC qualified welding personnel identified as 037840 perform Shielded Metal Arc Welding (SMAW) Process on weld joint DP3148-001-244. ZPMC Quality Control Personnel (QC) identified as Mr. Shen Jian was present to monitor the welding process. The welding parameters as measured using QC's calibrated instruments appeared to be in general compliance with WPS-B-P-2213-Tc-U4b-FCM-1.

OBG # SEGMENT 13CW

This QA observed ZPMC qualified welding personnel identified as 066734 perform Flux Cored Arc Welding (FCAW) Process on weld joint SEG3014D-004. ZPMC Quality Control Personnel (QC) identified as Mr. Cao hai zhou was present to monitor the welding process. The welding parameters as measured using QC's calibrated instruments appeared to be in general compliance with WPS-B-T-2232-ESAB.

OBG # SEGMENT 14W

This QA observed ZPMC qualified welding personnel identified as 066398 perform Shielded Metal Arc Welding (SMAW) Process repair welding on weld joint SEG3020E-056. ZPMC Quality Control Personnel (QC) identified as Mr. Shen Jian was present to monitor the welding process. The welding parameters as measured using QC's calibrated instruments appeared to be in general compliance with WPS-345-SMAW-2G (2F)-FCM-repair-1 and approved Critical Weld Repair B-CWR 2734R1.

This QA observed ZPMC qualified welding personnel identified as 037779 perform Shielded Metal Arc Welding (SMAW) Process on weld joint DP3171-001-030. ZPMC Quality Control Personnel (QC) identified as Mr. Shen Jian was present to monitor the welding process. The welding parameters as measured using QC's calibrated instruments appeared to be in general compliance with WPS-B-P-2212-TC-U4b-FCM-1.

This QA observed ZPMC qualified welding personnel identified as 069493 perform Shielded Metal Arc Welding (SMAW) Process on weld joint DP3169-001-022. ZPMC Quality Control Personnel (QC) identified as Mr. Shen Jian was present to monitor the welding process. The welding parameters as measured using QC's calibrated instruments appeared to be in general compliance with WPS-B-P-2212-TC-U4b-FCM-1.

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

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Summary of Conversations:

As mention above

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 150-00422372, who represents the Office of Structural Materials for your project.

Inspected By:	Sukanthan,Dhanasingh	Quality Assurance Inspector
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Reviewed By:	Hall,Steven	QA Reviewer
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