

**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-015356**Date Inspected:** 01-Jul-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:** Mr. Huang min**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:**

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

BAY- 5

The following Non Destructive Testing (NDT) Inspection carried out as per the ZPMC submitted Notification No. 06095.

**Ultrasonic Testing (UT)**

This QA performed UT of approximately 10% of the area previously tested and accepted by ZPMC Quality Control (QC) personnel. This QA generated UT report for this date. The members are identified as OBG Traveler Rail weld Components. Total number of welds UT Tested: 40 No's. The weld designations are review as follows:

1. 20TR2-001-009,013,015,017,011.
2. 20TR2-005-009,013,015,017,011.
3. 20TR2-006-009,013,015,017,011.
4. 20TR2-009-009,013,015,017,011.
5. 20TR2-010-009,013,015,017,011.

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6. 20TR2-012-009,013,015,017,011.
7. 20TR2-013-009,013,015,017,011.
8. 20TR2-014-009,013,015,017,011.

### MT

This QA performed MT of approximately 15% of the area previously tested and accepted by ZPMC Quality Control (QC) personnel. This QA generated MT report for this date. The members are identified as OBG Traveler Rail weld Components. Total number of welds MT Tested: 40 No's. The weld designations are review as follows:

1. 20TR2-001-009,013,015,017,011.
2. 20TR2-005-009,013,015,017,011.
3. 20TR2-006-009,013,015,017,011.
4. 20TR2-009-009,013,015,017,011.
5. 20TR2-010-009,013,015,017,011.
6. 20TR2-012-009,013,015,017,011.
7. 20TR2-013-009,013,015,017,011.
8. 20TR2-014-009,013,015,017,011.

ZPMC MT Technician performing MT for the Traveler Rail welds on TR number is identified as 20TR2-011. Refer the attached photo for reference.

### BAY- 6

This QA Inspector Randomly observed the following work in progress:

ZPMC Personnel performing Heat Straightening for the Bottom Panel (BP) 3069A. Heat straightening was being performed appeared to comply with the Applicable HSR Repot# HSR1 (B)-8667 . ZPMC Quality Control (QC) is identified as Mr. Xia Yong Zheng.

Shielded Metal Arc Welding (SMAW) welding of weld joint WJF-0-195. Welder is identified as 049769. ZPMC Quality Control (QC) is identified as Mr. Zhao Jian Hang. The welding variables appeared to comply with the Applicable WPS: WPS-B- T-3211-TC-U4c.

### BAY- 11

ZPMC Personnel performing weld back gouging for the Side plate weld joint identified as SP3069-001-045. ZPMC Quality Control (QC) is identified as Mr. Ma Qian Li. Refer the attached photo for reference.

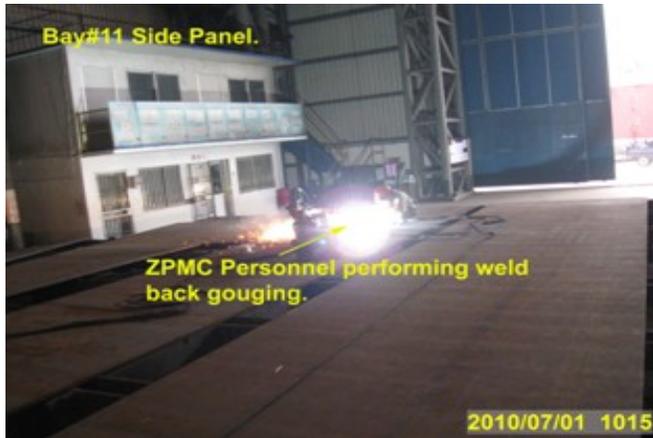
Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.

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## Summary of Conversations:

Only general conversation was held between QA and Quality Control (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 15000422372, who represents the Office of Structural Materials for your project.

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<b>Inspected By:</b>	Prabhu,Surendra	Quality Assurance Inspector
<b>Reviewed By:</b>	Hall,Steven	QA Reviewer

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