

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-011404**Date Inspected:** 05-Jan-2010**Project Name:** SAS Superstructure**OSM Arrival Time:** 645**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1845**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China**CWI Name:** Chen Xi**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.

This QA Inspector randomly observed the following work in progress:

OBG # CROSS BEAM CB01

This crossbeam appears to be completed and was shipped.

OBG # CROSS BEAM CB02

This crossbeam appears to be completed and was shipped.

OBG # CROSS BEAM CB03

This crossbeam appears to be completed and was shipped.

OBG # CROSS BEAM CB04

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

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OBG # CROSS BEAM CB05

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

OBG # CROSS BEAM CB06

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

OBG # CROSS BEAM CB07

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

OBG # CROSS BEAM CB08

This QA observed ZPMC Magnetic particle Testing (MT) technician identified as Mr. Xu Hua Xiang perform MT on Various weld joints. The technician appeared to be testing repaired area of the welds.

OBG # CROSS BEAM CB09

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

OBG # CROSS BEAM CB10

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

OBG # CROSS BEAM CB11

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

OBG # CROSS BEAM CB12

This Quality Assurance Inspector (QA) observed ZPMC personnel performing base metal repairs outside Orthotropic Box Girder (OBG) crossbeam CB12 without Engineers approval. The repair was being performed on Side Panel identified as SP202A Seismic Performance Critical Member (SPCM). This QA notified ABF QC identified as Mr. Cao Haizhou and ZPMC QA identified as Mr. Zhang wei of this issue and that an incident report would be generated.

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OBG # CROSS BEAM CB13

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

OBG # CROSS BEAM CB14

This QA observed ZPMC qualified welding personnel identified as 057795 perform Shielded Metal Arc Welding (SMAW) Process welding on weld joint FB204-044-057. ZPMC Quality Control Personnel (QC) identified as Mr. Guo Yuan Ting 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-B-U2.

This QA observed ZPMC qualified welding personnel identified as 057795 perform Shielded Metal Arc Welding (SMAW) Process welding on weld joint FB205-044-026. ZPMC Quality Control Personnel (QC) identified as Mr. Guo Yuan Ting 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-B-U2.

This QA observed ZPMC qualified welding personnel identified as 058102 perform Shielded Metal Arc Welding (SMAW) Process welding on weld joint FB205-041-026. ZPMC Quality Control Personnel (QC) identified as Mr. Guo Yuan Ting 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-B-U2.

This QA observed ZPMC qualified welding personnel identified as 204338 perform Flux Cored Arc Welding (FCAW) Process welding on weld joint FB205-044-025. ZPMC Quality Control Personnel (QC) identified as Mr. Guo Yuan Ting 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-B-U2-F-1.

OBG # CROSS BEAM CB15

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

OBG # CROSS BEAM CB16

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

OBG # CROSS BEAM CB17

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

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.

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