

**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 #: 1.28**WELDING INSPECTION REPORT****Resident Engineer:** Casey, William**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** WIR-029392**Date Inspected:** 22-Mar-2013**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1730**Contractor:** American Bridge/Fluor Enterprises, a JV**Location:** Job Site

<b>CWI Name:</b>	Fred Michels and Bernie Docena			<b>CWI Present:</b>	<b>Yes</b>	<b>No</b>	
<b>Inspected CWI report:</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>	<b>Rod Oven in Use:</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>Electrode to specification:</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>	<b>Weld Procedures Followed:</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>Qualified Welders:</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>	<b>Verified Joint Fit-up:</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>Approved Drawings:</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>	<b>Approved WPS:</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>
				<b>Delayed / Cancelled:</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>Bridge No:</b>	34-0006			<b>Component:</b>	SAS OBG		

**Summary of Items Observed:**

Caltrans Office of Structural Material (OSM) Quality Assurance Inspector (QAI) Joselito Lizardo was present at the Self Anchored Suspension (SAS) job site as requested to perform observations on the welding of components for the San Francisco Oakland Bay Bridge (SFOBB) Project.

At Pier 7 Caltrans field office, this QA performed updating of tracking records for OBG 13 East and 13 West. This QA entered into the tracking system the latest NDT reports that were performed in the field.

This QAI updated the spread sheets used to track RWR's. The spread sheet will be used not only for tracking purposes but as a guide for the inspection team to more readily access the RWR's for inspection purposes.

The QAI also updated the spreadsheet tracking the status of Non-Destructive Testing (NDT) on the project, and filed a hard copy of the NDT reports in the proper binder. The updated spreadsheet was forwarded to the inspection team for their use.

At OBG 12W-PP116.5-W2 deck access hole outside, QA randomly observed ABF/JV qualified welder Lin E. Yun continuing to perform back welding fill pass on the Complete Joint Penetration (CJP) butt joint. The welder was observed manually welding in the 4G (overhead) position utilizing a Shielded Metal Arc Welding (SMAW) with 5/32" diameter E7018H4R electrode and implementing Caltrans approved Welding Procedure Specification (WPS) ABF-WPS-D15-1040C. The joint being welded has a single V-groove butt joint welded with steel backing bar. ABF Quality Control (QC) Bernie Docena was noted monitoring the welding parameters of the welder. QA randomly monitored the welding parameter with reading of 130 amperes which appears in conformance to the contract requirements. At the end of the shift, SMAW fill pass welding was still continuing and should remain tomorrow.

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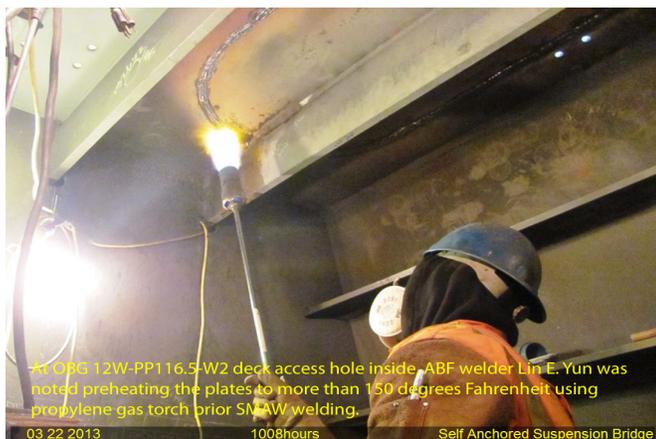
# WELDING INSPECTION REPORT

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At Bikepath panel point PP49, this QA randomly observed ABF welder Jose Torres perform all position fillet welding all around 2" x 2" x .25" angular and C channel C3 x 4.1 PS-6 pipe support. The welder was noted fillet welding the pipe support per ZPMC drawing BK-MEP-16 as replacement for the damaged same supports at panel points PP49 and PP89. During welding, the welder was noted using Shielded Metal Arc Welding (SMAW) with 1/8" diameter E7018H4R electrode implementing Caltrans approved Welding Procedure Specification (WPS) ABF-WPS-D15-F1200A. ABF QC Fred Michels was noted monitoring the welders' welding parameter and workmanship of the fillet welding. Since this was a replacement for the damaged pipe support, this QA had asked QC Fred Michels for the Request for Information (RFI) for the pipe support being welded. QC had responded to this QA that so far they have not received one yet but already requested and awaiting for the RFI.



### Summary of Conversations:

No significant conversation occurred today.

### 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 SMR Gary Thomas 916-764-6027, who represents the Office of Structural Materials for your project.

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**Inspected By:** Lizardo, Joselito

Quality Assurance Inspector

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**Reviewed By:** Reyes, Danny

QA Reviewer