

**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-029157  
**Date Inspected:** 21-Feb-2013

**Project Name:** SAS Superstructure  
**Prime Contractor:** American Bridge/Fluor Enterprises, a JV  
**Contractor:** American Bridge/Fluor Enterprises, a JV

**OSM Arrival Time:** 700  
**OSM Departure Time:** 1730  
**Location:** Job Site

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

**Summary of Items Observed:**

Quality Assurance Inspector (QA) Douglas Frey was at the American Bridge/Fluor (ABF) job site at Yerba Buena Island in California between the times noted above in order to monitor Quality Control functions and the in process work being performed by ABF personnel. The following items were observed:

This QA observed the following welders working on the OBG at various locations:

ABF welder Wai Kit Lai #2953 was observed Carbon Arc Gouging (CAG) from the root side of the weld on ALH East #4. The welder was observed grinding past the root to clean shiny metal. QC Inspector Salvador Merino performed a Magnetic Particle (MT) inspection of the back gouge to ensure soundness of the metal. Upon approval the welder began performing the SMAW process in the 4G overhead position drawing 123 Amps in conformance with ABF-WPS-D1.5-1110A-CU. This QA Inspector made subsequent observations throughout the shift to monitor quality and noted that the work was in progress and appeared to be in general conformance with the contract documents. CCO184 and RFI3132 were referenced during the observations.

This QA Inspector randomly observed ABF welder Richard Garcia #5892 utilize an Oxy-Acetylene Torch to provide a temporary access opening at the Hinge A expansion joint at E PP128.7. This QA made subsequent observations to monitor quality and noted that the work at this location appeared to be in general conformance with CCO202.

This QA Inspector assisted ASMR Laura Webb and Cal-Trans Construction Engineer Thanh Le in performing a survey of the interior OBG from lift 8 to lift 11 on the west bound side of the SAS for punch list tracking items.

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# WELDING INSPECTION REPORT

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ABF welder Mike Jimenez #4671 was observed Carbon Arc Gouging (CAG) from the root side of the weld on ALH West #4. The welder was observed grinding past the root to clean shiny metal. QC Inspector Salvador Merino performed a Magnetic Particle (MT) inspection of the back gouge to ensure soundness of the metal. Upon approval the welder began performing the SMAW process in the 4G overhead position drawing 123 Amps in conformance with ABF-WPS-D1.5-1110A-CU. This QA Inspector made subsequent observations throughout the shift to monitor quality and noted that the work was in progress and appeared to be in general conformance with the contract documents. CCO184 and RFI3132 were referenced during the observations.

This QA observed QC Inspector Fred Michels and Salvador Merino performing welding parameter checks such as voltage, amps, electrodes and preheats throughout the day. This QA also observed QC Inspector's John Hays performing various Non-Destructive Testing (NDT) on completed weld repairs as they became available for testing. Non-Destructive Testing methods utilized by the QC Inspectors were Visual Testing (VT), Magnetic Particle Testing (MPT) and Ultrasonic Testing Shear Wave (UTSW). QC Inspectors were observed performing inspection per applicable code and or contract criteria. Unless otherwise noted, all work observed on this date appeared to generally comply with the contract documents.

### Summary of Conversations:

Conversations were relevant to work performed.



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

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<b>Inspected By:</b>	Frey,Doug	Quality Assurance Inspector
<b>Reviewed By:</b>	Reyes,Danny	QA Reviewer

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