

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 99.28**WELDING INSPECTION REPORT****Resident Engineer:** Casey, William**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** WIR-029430**Date Inspected:** 13-Apr-2013**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1430**Contractor:** American Bridge Manufacture**Location:** Reedsport, Oregon**CWI Name:** Mike Inman**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:** Supplemental Cable Band Collar**Summary of Items Observed:**

On this date CALTRANS OSM Quality Assurance (QA) representative was present at American Bridge Manufacture for observations related to welding, fabrication and inspection performed for the Supplemental Cable Band Collar scheduled for this project. While onsite the QA Inspector observed the following.

At the time of arrival, the QA Inspector met with Quality Control (QC) Inspector and discussed the welding, Non-Destructive testing (NDT) and other project related operations scheduled for this project for this date.

Supplemental Cable Band Collar Welding - CCO # 274

The QA Inspector periodically observed American Bridge Manufacture (MCM) welding personnel Cody Greer performing base material preheating, preparation and welding operations. The welding operation was being performed by using the Flux Cored Arc Welding Gas Shielded (FCAW-G) process in the horizontal position and it was being performed to make Complete Joint Penetration (CJP) and Partial Joint Penetration (PJP) welds. The welding operation was being performed between assembly members on the Supplemental Cable Band Collar identified as number 16. (A total of 6 plates were attached on bottom and 6 plates on top sides of assembly). (Please note that the welding operation on this assembly started during previous shifts).

The QA Inspector verified the electrical welding parameters and they appeared to be in general compliance with the referenced Welding Procedure Specification (WPS) number ABM-SAS-25 and ABM-SAS-08. The QA Inspector observed QC Inspector monitoring the welding operation at this location. The welding operation was not completed between assembly members at this location during the QA Inspector's shift.

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Supplemental Cable Band Collar Welding - CCO # 274

The QA Inspector periodically observed ABM welding personnel Brian Moore performing base material preparation and welding operations. The welding operation was being performed by using the FCAW-G process in the horizontal position and it was being performed to make CJP and PJP welds. The welding operation was being performed between assembly members on the Supplemental Cable Band Collar identified as number 5. (A total of 6 plates were attached on bottom and 6 plates on top sides of assembly). (Please note that the welding operation on this assembly started during previous shifts).

The QA Inspector verified the electrical welding parameters and they appeared to be in general compliance with the referenced WPS number ABM-SAS-25 and ABM-SAS-08. The QA Inspector observed QC Inspector monitoring the welding operation at this location. The welding operation was not completed between assembly members at this location during the QA Inspector's shift.

Supplemental Cable Band Collar Welding - CCO # 274

The QA Inspector periodically observed ABM welding personnel Michael Mitchell performing base material preparation and welding operations. The welding operation was being performed by using the FCAW-G process in the horizontal position and it was being performed to make CJP and PJP welds. The welding operation was being performed between assembly members on the Supplemental Cable Band Collar identified as number 15. (A total of 6 plates were attached on bottom and 6 plates on top sides of assembly). (Please note that the welding operation on this assembly started during previous shifts).

The QA Inspector verified the electrical welding parameters and they appeared to be in general compliance with the referenced WPS number ABM-SAS-25 and ABM-SAS-08. The QA Inspector observed QC Inspector monitoring the welding operation at this location. The welding operation was not completed between assembly members at this location during the QA Inspector's shift.

Supplemental Cable Band Collar Fit-up - CCO # 274

The QA Inspector periodically observed ABM personnel Joe Reitmeir performing base material preparation, fit-up and tack welding operations. The fit-up operation was being performed to attach assembly plate members to continue making the Supplemental Cable Band Collar identified as number 9 and 11. (A total of eight plates will be attached to assembly).

During the fit-up in progress and after the members were aligned, the QA Inspector observed ABM welding personnel performing tack welding operations using the FCAW-G process in the horizontal position. The QA Inspector verified the electrical welding parameters that appeared to be general compliance with the referenced WPS number ABM-SAS-07.

The QA Inspector observed QC Inspector monitoring the fit-up and tack welding operations at this location. The total fit-up and tack welding operations were completed between assembly members during the QA Inspector's shift.

Supplemental Cable Band Ultrasonic Testing Verification

The QA Inspector performed random Ultrasonic Testing (UT) verification on the Complete Joint Penetration (CJP) – "T" joint welds made between assembly plate members attached on the Supplemental Cable Band Collar

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identified as number 10, 4, 5, 3, 2, 14 and 1. The QA Inspector did not observe any rejectable welding discontinuities during the verification. Please note that the QA Inspector followed the rejection and acceptance criteria table number 6.3 from the AWS D1.5 code. Please see the QA Inspector Ultrasonic Testing Report (TL-6027) generated on this date for additional information. The QA Inspector notified QA Task Leader Michael Foerder and Structural Materials Representative (SMR) Yiannis Kourakis (in behalf of Gary Thomas) of the UT verification and the rejection criteria table used during the verification.

OBG Cable Safety Railing Coating - CCO # 188

The QA Inspector periodically observed ABM coating personnel performing coating operation. The coating operations were being performed on the OBG Cable Safety Railing (Post and Gates). The coating personnel notified QA Inspector that a final coating material will be apply to all the posts and gates located on the coating room and that the environmental reading were taken prior to the coating, during, after and that they were reported acceptable for the today's coating operations. The coating personnel listed the environmental readings into the QC Inspection log located on site. The final coating operation was completed during this shift and the QA Inspector was notified that the final coating inspection will be performed during the next shift.

Summary of Conversations:

As noted on the body of the report above. Other Basic communication was performed between the QA Inspector and the Quality Control Inspector during observations.

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.

Inspected By:	Medina,Ricardo	Quality Assurance Inspector
Reviewed By:	Foerder,Mike	QA Reviewer
