

TUL

**DEPARTMENT OF TRANSPORTATION**

DIVISION OF ENGINEERING SERVICES  
MATERIALS ENGINEERING AND TESTING SERVICES  
Office of Structural Materials  
Quality Assurance and Source Inspection



**Bay Area Branch**  
690 Walnut Ave., St. 150  
Vallejo, CA 94592-1133  
(707) 649-5453  
FAX: (707) 649-5493

Contract # : 04-0120E4  
Cty SF Rte 80 PM 13.4/13.8  
File # 1 .25 B

**QUALITY ASSURANCE - NONCONFORMANCE REPORT**

**Location:** E2West Foundation

**Date:** 03-27-07

**Prime Contractor:** Kiewit/FCI/Manson-KFM-JV

**NCR #153**

**Submitting Contractor:** Kiewit/FCI/Manson-KFM-JV

**Type of problem:**

- Welding**  **Concrete**  **Other**
- Welding:**  **Curing:**  **Procedural:**  **Bridge No.** 34-0006 L / R
- Joint fit-up:**  **Coating:**  **Other:**  **Component:** E2W foundation footing
- Procedural:**  **Procedural:**

**Description of Non-Conformance:**

ISI QC Inspector Dan Smith overlooked two-relevant magnetic particle indications located in the root weld pass of weld 6B-4. One transverse magnetic particle testing (MT) indication and one linear MT indication.

**Applicable reference:** AWS D1.5-2002

**Who discovered the problem:** QA Inspector Rick Bettencourt

**Name of individual from Contractor notified:** Quality Control Manager, Kevin Carpenter

**Time and method of notification:** 03/27/07 at approximately 1030 via telephone notification

**Name of Caltrans Engineer notified:** Saman Soheilifard, Caltrans Assistant Structure Representative

**Time and method of notification:** 1800 hours March 27, 2007 via telephone notification

**QC Inspector's Name:** Dan Smith

**Was the QC Inspector aware of problem:** Yes

**Contractor's proposal to correct the problem:** Unknown

**Comments:** This report is for the purpose of determining general 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 Ryan Smith, (858) 232-6799, who represents the Office of Structural Materials for your project.

Inspected By: Richard Dennis Bettencourt

Quality Assurance Inspector

Reviewed By: Albert Carreon

Lead QA Reviewer

**DEPARTMENT OF TRANSPORTATION**DIVISION OF ENGINEERING SERVICES  
MATERIALS ENGINEERING AND TESTING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection

**Bay Area Branch**

690 Walnut Ave., St. 150

Vallejo, CA 94592-1133

(707) 649-5453

FAX: (707) 649-5493



Contract # : 04-0120E4

Cty SF Rte 80 PM 13.4/13.8

File # 1 .25 B

**QUALITY ASSURANCE - NONCONFORMANCE REPORT****Location:** E2 West Foundation**Date:** 03-27-07**Prime Contractor:** Kiewit/FCI/Manson-KFM-JV**NCR #**153**Submitting Contractor:** Kiewit/FCI/Manson-KFM-JV**Type of problem:****Welding**  **Concrete**  **Other** **Welding:**  **Curing:**  **Procedural:**  **Bridge No.** 34-0006 L / R**Joint fit-up:**  **Coating:**  **Other:**  **Component:** E2W foundation footing**Procedural:**  **Procedural:** **Description of Non-Conformance:**

ISI QC Inspector Dan Smith overlooked two-relevant magnetic particle indications located in the root weld pass of weld 6B-4. One transverse magnetic particle testing (MT) indication and one linear MT indication.

**Applicable reference:** AWS D1.5-2002**Who discovered the problem:** QA Inspector Rick Bettencourt**Name of individual from Contractor notified:** Quality Control Manager, Kevin Carpenter**Time and method of notification:** 03/27/07 at approximately 1030 via telephone notification**Name of Caltrans Engineer notified:** Saman Soheilifard, Caltrans Assistant Structure Representative**Time and method of notification:** 1800 hours March 27, 2007 via telephone notification**QC Inspector's Name:** Dan Smith**Was the QC Inspector aware of problem:** Yes**Contractor's proposal to correct the problem:** Unknown**Comments:** This report is for the purpose of determining general 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 Ryan Smith, (858) 232-6799, who represents the Office of Structural Materials for your project.

Inspected By: Richard Dennis Bettencourt

Quality Assurance Inspector

Reviewed By: Albert Carreon

Lead QA Reviewer

**DEPARTMENT OF TRANSPORTATION**

DIVISION OF ENGINEERING SERVICES  
 MATERIALS ENGINEERING AND TESTING SERVICES  
 Office of Structural Materials  
 Quality Assurance and Source Inspection

**Bay Area Branch**

690 Walnut Ave., St. 150  
 Vallejo, CA 94592-1133  
 (707) 649-5453  
 FAX: (707) 649-5493



Contract # : 04-0120E4  
 Cty SF Rte 80 PM 13.4/13.8  
 File # 1.25 B

**QUALITY ASSURANCE - NONCONFORMANCE REPORT****Location:** E2 West Foundation**Date:** 03-27-07**Prime Contractor:** Kiewit/FCI/Manson-KFM-JV**NCR #153****Submitting Contractor:** Kiewit/FCI/Manson-KFM-JV**Type of problem:**

**Welding**  **Concrete**  **Other**   
**Welding:**  **Curing:**  **Procedural:**  **Bridge No.** 34-0006 L / R  
**Joint fit-up:**  **Coating:**  **Other:**  **Component:** E2W foundation footing  
**Procedural:**  **Procedural:**

**Description of Non-Conformance:**

ISI QC Inspector Dan Smith overlooked two-relevant magnetic particle indications located in the root weld pass of weld 6B-4. One transverse magnetic particle testing (MT) indication and one linear MT indication.

**Applicable reference:** AWS D1.5-2002**Who discovered the problem:** QA Inspector Rick Bettencourt**Name of individual from Contractor notified:** Quality Control Manager, Kevin Carpenter**Time and method of notification:** 03/27/07 at approximately 1030 via telephone notification**Name of Caltrans Engineer notified:** Saman Soheilifard, Caltrans Assistant Structure Representative**Time and method of notification:** 1800 hours March 27, 2007 via telephone notification**QC Inspector's Name:** Dan Smith**Was the QC Inspector aware of problem:** Yes**Contractor's proposal to correct the problem:** Unknown

**Comments:** This report is for the purpose of determining general 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 Ryan Smith, (858) 232-6799, who represents the Office of Structural Materials for your project.

Inspected By: Richard Dennis Bettencourt *Bill Smith for Rick Bettencourt* Quality Assurance Inspector

Reviewed By: Albert Carreon *[Signature]*

Lead QA Reviewer

**DEPARTMENT OF TRANSPORTATION**

DIVISION OF ENGINEERING SERVICES  
MATERIALS ENGINEERING AND TESTING SERVICES  
Office of Structural Materials  
Quality Assurance and Source Inspection



**Bay Area Branch**  
690 Walnut Ave., St. 150  
Vallejo, CA 94592-1133  
(707) 649-5453  
FAX: (707) 649-5493

Contract # : 04-0120E4  
Cty SF Rte 80 PM 13.4/13.8  
File # 1.25 B

**QUALITY ASSURANCE - NONCONFORMANCE REPORT**

**Location:** E2West Foundation

**Date:** 03-27-07

**Prime Contractor:** Kiewit/FCI/Manson-KFM-JV

**NCR #153**

**Submitting Contractor:** Kiewit/FCI/Manson-KFM-JV

**Type of problem:**

**Welding**  **Concrete**  **Other**   
**Welding:**  **Curing:**  **Procedural:**  **Bridge No.** 34-0006 L / R  
**Joint fit-up:**  **Coating:**  **Other:**  **Component:** E2W foundation footing  
**Procedural:**  **Procedural:**

**Description of Non-Conformance:**

ISI QC Inspector Dan Smith overlooked two-relevant magnetic particle indications located in the root weld pass of weld 6B-4. One transverse magnetic particle testing (MT) indication and one linear MT indication.

**Applicable reference:** AWS D1.5-2002

**Who discovered the problem:** QA Inspector Rick Bettencourt

**Name of individual from Contractor notified:** Quality Control Manager, Kevin Carpenter

**Time and method of notification:** 03/27/07 at approximately 1030 via telephone notification

**Name of Caltrans Engineer notified:** Saman Soheilifard, Caltrans Assistant Structure Representative

**Time and method of notification:** 1800 hours March 27, 2007 via telephone notification

**QC Inspector's Name:** Dan Smith

**Was the QC Inspector aware of problem:** Yes

**Contractor's proposal to correct the problem:** Unknown

**Comments:** This report is for the purpose of determining general 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 Ryan Smith, (858) 232-6799, who represents the Office of Structural Materials for your project.

**Inspected By:** Richard Dennis Bettencourt

Quality Assurance Inspector

**Reviewed By:** Albert Carreon

Lead QA Reviewer

006622 APR-57  
RECEIVED

## Memorandum

*Flex your power!  
Be energy efficient!*

To: MARK VILCHECK  
Structure Representative  
333 Burma Road  
Oakland, CA 94607

Date: February 21, 2007  
File: 04-0120E4  
E2/T1 Foundations

From: RYAN T. SMITH  
Structural Materials Representative  
Quality Assurance and Source Inspection Branch  
Office of Structural Materials

### KFM LETTER 263 – RESPONSE TO METS NCR'S 153 AND 154

The Materials Engineering and Testing Service (METS) has reviewed KFM Letter 263 dated May 3, 2007. This letter is requesting to close METS NCR's 153 and 154 which were issued to the Contractor by State Letters 05.03.01-0003031 and 05.03.001-0003032.

In March and April 2007, METS documented that one of the Contractor's Quality Control Inspectors failed to record multiple rejectable indications while performing Magnetic Particle Testing (MT) of the Pile/Sleeve Connector Plates (PSCP). According to KFM-LET-263, the Contractor agrees the QC Inspector should have recorded the indications as rejectable.

As stated in the Contractor's response letter, the inspector was counseled regarding proper inspection techniques when performing MT. Additionally, the Contractor indicates another meeting was held on April 20, 2007 to discuss proper MT inspection techniques with the all the QC inspection staff. METS inspectors have noted no further instances of missed indications since that time and consider NCR's 153 and 154 to resolved at this time.

If you have any questions, or would like to discuss the issues, please call me at (858) 232-6799.

cc: Rafael Bolon  
Tom Shimada  
Albert Carreon

*closed by Rick JS on 6/15/07*

## Memorandum

*Flex your power!  
Be energy efficient!*

**To:** MARK VILCHECK  
Structure Representative  
333 Burma Road  
Oakland, CA 94607

**Date:** February 21, 2007  
**File:** 04-0120E4  
E2/T1 Foundations

**From:** RYAN T. SMITH  
Structural Materials Representative  
Quality Assurance and Source Inspection Branch  
Office of Structural Materials

### KFM LETTER 263 – RESPONSE TO METS NCR’S 153 AND 154

The Materials Engineering and Testing Service (METS) has reviewed KFM Letter 263 dated May 3, 2007. This letter is requesting to close METS NCR’s 153 and 154 which were issued to the Contractor by State Letters 05.03.01-0003031 and 05.03.001-0003032.

In March and April 2007, METS documented that one of the Contractor’s Quality Control Inspectors failed to record multiple rejectable indications while performing Magnetic Particle Testing (MT) of the Pile/Sleeve Connector Plates (PSCP). According to KFM-LET-263, the Contractor agrees the QC Inspector should have recorded the indications as rejectable.

As stated in the Contractor’s response letter, the inspector was counseled regarding proper inspection techniques when performing MT. Additionally, the Contractor indicates another meeting was held on April 20, 2007 to discuss proper MT inspection techniques with the all the QC inspection staff. METS inspectors have noted no further instances of missed indications since that time and consider NCR’s 153 and 154 to resolved at this time.

If you have any questions, or would like to discuss the issues, please call me at (858) 232-6799.

cc: Rafael Bolon  
Tom Shimada  
Albert Carreon