

DEPARTMENT OF TRANSPORTATION
 DIVISION OF ENGINEERING 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
 (707) 649-5493

Contract #: 04-0120F4
 Cty: SF/ALA Rte: 80 PM: 13.2/13.9
 File #: 69.25B

QUALITY ASSURANCE -- NON-CONFORMANCE REPORT

Location: Changxing Island, Shanghai, China

Report No: NCR-000885

Prime Contractor: American Bridge/Fluor Enterprises, a JV

Date: 03-Nov-2010

Submitting Contractor: Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island

NCR #: ZPMC-0847

Type of problem:

Welding **Concrete** **Other**
Welding **Curing** **Procedural**
Joint fit-up **Coating** **Other**
Procedural **Procedural** **Description:**

Bridge No: 34-0006

Component: Lift 13AE, Long. Diaphragm LD3025A

Reference Description: Longitudinal Diaphragm on 13AE E4 Line Cut beyond dimensions shown on approved shop drawings

Description of Non-Conformance:

During the Quality Assurance (QA) random in-process observations of the fabrication of OBG segment 13AE in fabrication Bay 14, this Caltrans QA Inspector observed the following issue:

- ZPMC personnel cut out the upper leading edge of the longitudinal diaphragm LD3025A web at a total of five (5) locations to facilitate fit up at the floor beam intersections.
- The Floor beams in way of LD3025A at E4 are identified as FB3106A, FB3123A, FB3110A, FB3126A and FB3119A.
- Maximum dimension of the longitudinal diaphragm web plate removal was 10mm x 350mm.
- Segment 13AE is in the OBG Fabrication bay 14.

See attached photographs for additional detail:



Applicable reference:

QUALITY ASSURANCE -- NON-CONFORMANCE REPORT

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Standard Specifications July 1999, section 5-1.03; Work and materials shall conform to the lines, grades, typical cross sections, dimensions and material requirements, including tolerances, shown on the plans or indicated in the specifications.

Approved Shop Drawings: LD3025, LD3025A

Who discovered the problem: Shrikant Utekar

Name of individual from Contractor notified: Man Kit Li

Time and method of notification: 11:30 Hrs, 11/03/10, Verbal

Name of Caltrans Engineer notified: Lorraine Woo

Time and method of notification: 14:30 Hrs, 11/03/10, Email

QC Inspector's Name: Mr. Wang Lu (Testino)

Was QC Inspector aware of the problem: Yes No

Contractor's proposal to correct the problem:

NA

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 Mazen Wahbeh,(818) 292-0659, who represents the Office of Structural Materials for your project.

Inspected By:	Devey,Jim	SMR
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Reviewed By:	Wahbeh,Mazen	SMR
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DEPARTMENT OF TRANSPORTATION - District 4 Toll Bridge

333 Burma Road
Oakland CA 94607
Tel: Fax:

NON-CONFORMANCE REPORT TRANSMITTAL

To: AMERICAN BRIDGE/FLUOR, A JV
375 BURMA ROAD
OAKLAND CA 95607

Date: 04-Nov-2010

Contract No: 04-0120F4
04-SF-80-13.2 / 13.9

Dear: Mr. Charles Kanapicki

Job Name: SAS Superstructure

Attention: Mr. Thomas Nilsson Project/Fabrication Manager

Document No: 05.03.06-000839

Subject: NCR No. ZPMC-0847

Reference Description: Longitudinal Diaphragm on 13AE E4 Line Cut beyond dimensions shown on approved shop drawings

The attached Non-Conformance Report describes an occurrence where the contractor did not comply with a requirement of the contract document as indicated below:

- Material or Workmanship not in conformance with contract documents.
- Quality Control (QC) not performed in conformance with contract documents.
- Recurring QC issue that constitutes a systematic problem in quality control.
- Non-Conformance Resolved.

Material Location: OBG **Lift:** 13

Remarks:

- During the Quality Assurance (QA) random in-process observations of the fabrication of OBG segment 13AE in fabrication Bay 14, Caltrans QA Inspector observed the following issue:
- ZPMC personnel cut out the upper leading edge of the longitudinal diaphragm LD3025A web at a total of five (5) locations to facilitate fit up at the floor beam intersections.
 - The Floor beams in way of LD3025A at E4 are identified as FB3106A, FB3123A, FB3110A, FB3126A and FB3119A.
 - Maximum dimension of the longitudinal diaphragm web plate removal was 10mm x 350mm.
 - Segment 13AE is in the OBG Fabrication bay 14.

Action Required and/or Action Taken:

Proposed a resolution for the identified non-conformance with revised procedures to prevent future occurrences. A response for the resolution of this issue is expected within 7 days.

Transmitted by: Laraine Woo Transportation Engineer

Attachments: ZPMC-0847

cc: Rick Morrow, Gary Pursell, Peter Siegenthaler, Stanley Ku, Brian Boal, Contract Files, Ching Chao, Bill Casey

File: 05.03.06

NCR PROPOSED RESOLUTION

To: CALTRANS - SAS Superstructure
333 Burma Road
Oakland CA 94607

Attention: Siegenthaler, Peter
Resident Engineer

Ref: 05.03.06-000839

Subject: NCR No. ZPMC-0847

Dated: 23-Feb-2011

Contract No.: 04-0120F4
04-SF-80-13.2 / 13.9

Job Name: SAS Superstructure

Document No.: ABF-NPR-000923 Rev: 00

Contractor's Proposed Resolution:

Reference Resolution:

Per the approved TC-RFI dated 11/15/2011, ZPMC has taper cut the cu out in the noted locations in the LD to a 1:2.5 slope. Based on this ZPMC requests closure of this NCR.

Submitted by: Ishibashi, Joshua

Attachment(s): ABF-NPR-000923R00

Caltrans' comments:

Status: CLO

Date: 23-Feb-2011

This proposed resolution is acceptable. The documentation received is sufficient and the Department concurs that Non-Conformance ZPMC-0847 is closed.

Submitted by: Eagen, Sean

Attachment(s):

Date: 23-Feb-2011

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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: xx.25A**QUALITY ASSURANCE -- NON-CONFORMANCE RESOLUTION****Location:** Changxing Island, Shanghai, China**Report No:** NCS-000912**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**Date:** 23-Feb-2011**Submitting Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **NCR #:** ZPMC-0847**Type of problem:**

Welding	Concrete	Other	
Welding	Curing	Procedural	Bridge No: 34-0006
Joint fit-up	Coating	Other	Component:
Procedural	Procedural	Description:	

Date the Non-Conformance Report was written: 03-Nov-2010**Description of Non-Conformance:**

During the Quality Assurance (QA) random in-process observations of the fabrication of OBG segment 13AE in fabrication Bay 14, this Caltrans QA Inspector observed the following issue:

-ZPMC personnel cut out the upper leading edge of the longitudinal diaphragm LD3025A web at a total of five (5) locations to facilitate fit up at the floor beam intersections.

-The Floor beams in way of LD3025A at E4 are identified as FB3106A, FB3123A, FB3110A, FB3126A and FB3119A.

- Maximum dimension of the longitudinal diaphragm web plate removal was 10mm x 350mm.

-Segment 13AE is in the OBG Fabrication bay 14.

See attached photographs for additional detail:

Contractor's proposal to correct the problem:

Contractor will perform the work based on TC-RFI 225R0. Contractor will taper the cut out in the noted locations in the LD to a 1:2.5 slope

Corrective action taken:

Contractor has tapered the cut out in the noted location in the LD to a 1:2.5 slope and completed the repair.

Did corrective action require Engineer's approval? Yes No

If so, name of Engineer providing approval: **Date:**

Is Engineer's approval attached? Yes No

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 Wahbeh, Mazen 818-292-0659, who represents the Office of Structural Materials for your project.

QUALITY ASSURANCE -- NON-CONFORMANCE RESOLUTION

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Inspected By: Ng,Michael

Quality Assurance Inspector

Reviewed By: Wahbeh,Mazen

QA Reviewer