



Daily Diary Report by Bid Item

Contract No.: 04-0120F4

Diary #: 251 Const Calendar Day: 540 Date: 02-Mar-2011 Wednesday

Inspector Name: Bruce, Matt Title: Transportation Engineer

Inspection Type: Continuous

Shift Hours: 07:00 am 06:30 pm Break: 00:30 Over Time: 03:00

Federal ID:

Location:

Reviewer: Mathur, Lalit Approved Date: 11-Apr-11 Status: Approved

04-0120F4
 04-SF-80-13.2/13.9
 Self-Anchored
 Suspension Bridge

Weather

Temperature 7 AM 50 - 60 12 PM 50 - 60 4PM 50 - 60

Precipitation 0.25"

Condition Intermittent rain with high winds in the AM

Working Day If no, explain:

Diary:

Dispute

Work description.

The following comments pertain to the grouting operation of the Hinge K pipe beam assembly grout pads for both the W2E and W2W sides:

- 1.) All personnel were prepared to start the grouting operation at 7:00am. However due to the high winds and rain in the morning, the grouting operation didn't start until noon and was completed approximately at 6:00pm.
- 2.) ABF engineer Zach Lauria, ABF superintendent Scott Smith, and Conco's superintendent Gary Brandt were in-charge of this grouting operation. ABF QC manager Chuck Kanapicki was onsite for technical assistance with the grouting quantities, mixing, and testing. Smith Emery had two technicians Sal and Joel Nadler testing the grout during the operation. Multiple discussions took place between myself and Alex Schmitt with the contractor's supervisors and personnel in regards to proper placement (consolidation) and quantities/properties of the grout material.
- 3.) The fluidity of the grout for this operation was "thicker" than normal. Initially and at certain times it was difficult to place the grout into the forms. Hence the reason for using the pencil vibrator to push/move the grout into and around in the forms. Vibration was also done externally on the outside edges of the formwork.
- 4.) METS inspector Jason Gramlick and myself used the boroscope to investigate if there was any grout intrusion into the Hinge K pipe beam assembly "boxes". It appeared that there was no major leaks of grout through the neoprene donuts. The boroscope was placed through the west side in the annular space between the Macalloy rod and assembly "box" on the low end of the cross slope in one location for each Hinge K pipe beam assembly.
- 5.) John Beede, Joel Nadler (SE technician), Alex Schmitt, and myself made the grout cubes to be used for testing compressive strength of the material. Caltrans made a total of 12 sets (3 cubes in a set).

- See Alex Schmitt's diary for general comments on the grouting operation and pertinent discussions with ABF and Conco personnel during the Hinge K pipe beam assembly grouting operation.
- See Abbas Iranmanesh and Lalit Mathur's diaries for ABF and Concos labor/equipment for the Hinge K pipe beam assembly grouting operation. Also the documentation of the water and grout quantities at the mixer trucks, grout efflux times, Specific Gravity (S.G) and any discussions or other observations taken during the grouting operation at the mixer trucks.

Attachment

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Grout flow for the third batch which was mixed more thorough and had a higher water quantity at the start of mixing.



Conco and ABF laborers positioning the bucket of grout over the hopper of the pump placed on top of the W2 cap beam near W2W Hinge K pipe beams.



First batch of grout mixed for the W2W Hinge K pipe beam assembly grout pad.



Mixing operation down below prior to hoisting the bucket to the top of the W2 cap beam.



Placing grout into the low end of the W2E Hinge K pipe beam assembly grout pad forms and using a vibrator to push/move the grout through the forms.



Placing grout into the hopper for placement into the W2E Hinge K pipe beam assembly grout pad formwork.

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ABF using a forklift to place the first superbag of Masterflow 928 into the mixer truck after water was added into the drum.



Grout flowing down the chute of the mixing truck of the grout that had the shortest efflux time of 23 seconds.



Placing the thicker grout mix into the hopper for the W2W Hinge K pipe beam assembly grout pad.



Grouting operation of the W2W Hinge K pipe beam assemblies in progress.



A vibrator was used in an attempt to consolidate the thick grout in the forms since the material was not flowing like it normally does.