

CONTRACT CHANGE ORDER

Change Requested by: Engineer

CCO: 247 Suppl. No. 0 Contract No. 04 – 0120F4 Road SF-80-13.2/13.9 FED. AID LOC.:

To: **AMERICAN BRIDGE/FLUOR ENTERPRISES INC A JOINT VENTURE**

You are directed to make the following changes from the plans and specifications or do the following described work not included in the plans and specifications for this contract.

NOTE: This change order is not effective until approved by the Engineer.

Description of work to be done, estimate of quantities and prices to be paid. (Segregate between additional work at contract price, agreed price and force account.) Unless otherwise stated, rates for rental of equipment cover only such time as equipment is actually used and no allowance will be made for idle time. This last percentage shown is the net accumulated increase or decrease from the original quantity in the Engineer's Estimate.

Extra Work at Lump Sum:

As directed by the Engineer perform, but not limited to, the following:

a. Bevel Cable Bands

Bevel the inside corner of the cut gap faces at 5 mm: 20 mm as depicted in ABF-RFI-001190R00 for all south cable bands.

b. Remove and Reinstall Cable Bands at the following locations:

North cable bands at PPs 34, 36, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82, 84, 86, 88, 90, 92, 94, 96, 98, 100, 102, 104, and 106.

c. Machine Cable Band at the following locations:

North cable bands at PPs 34, 36, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82, 84, 86, 88, 90, 92, 94, 96, 98, 100, 102, 104, 106, 108, 110, 112, 114, 116, and 117:

Female Half:

- i. Machine 15 mm +10/-0 from the top and bottom faces of the cable band. Provide a 100 mm offset reference line prior to machining
- ii. Bevel the inside corner of the cut gap faces at 5 mm: 20 mm as depicted in ABF-RFI-001190R00
- iii. Dress the edge of each suspender groove with a 5 mm minimum radius
- iv. Dress all other sharp edges with a 2 mm minimum radius

Male Half:

- v. Trim the tip of all shear keys by 15 mm
- vi. Dress the edge of each suspender groove at a 5 mm minimum radius
- vii. Dress all other sharp edges with a 2 mm minimum radius

Following the machining:

- viii. Apply two coats of organic zinc-rich primer to repair the metalized surfaces of the dressed suspender grooves on both cable band halves
- ix. Apply a single coat of organic zinc rich primer to the machined faces of the male and female half of the cable bands

d. Inspection Process Following Cable Band Machining

- i. At machine shop: Inspect dimensional tolerances.
- ii. At project site: VT of machined surfaces to be performed.

e. Welders on Standby

Provide on standby qualified welders and associated equipment to perform weld repairs on the cable bands as a result of the machining. If needed, welding repairs will be performed in accordance with the cable band manufacturer's (Goodwin) procedures.

f. North Cable Band Readjustment

Readjust the north cable bands at PP 32 and 38 to obtain a minimum 10 mm gap.

g. Cable Band Installation – Initial Post Tensioning Acceptance Criteria

- i. Cable band gaps shall be 10 mm or greater.
- ii. Longitudinal gap deviation shall not exceed 3 mm / 1000 mm.
- iii. Longitudinal suspender groove surface differentials shall be 4 mm or less.

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h. PWS Strand Formers

Procure cable former bars and install approximately every 50 m along the main and side spans, or as directed by the Engineer.

i. Cable Band Bolt Plate Washers

Provide and install hot dip galvanized plate washers under the head of all cable bands that are being machined in order to ensure that the bolt does not shank out. The plate washers shall be ASTM A514 and meet the dimensions of ASTM F436.

j. Provide two additional extensometers.

This change order resolves the costs associated with Contractor Request for Information (RFI) numbers 1190 and 2854 with respect to changes listed above.

The following revised plan sheets detail the changes addressed in this change order: 760S2 (of 1204) as shown on sheet 3 of this change order.

For this work, the Contractor will receive a lump sum price of \$455,054.00. This sum constitutes full and complete compensation for furnishing all labor, material, tools and incidentals including all markups by reason of this change.

Extra Work at Lump Sum.....\$455,054.00

Estimated Cost: Increase Decrease \$455,054.00

By reason of this order the time of completion will be adjusted as follows: 0 Days

Submitted by

Signature  Resident Engineer Darryl Schram, Senior T.E. Date 10/20/12

Approval Recommended by

Signature  Supervising Transportation Engineer William Casey, Supervising T.E. Date 10/24/2012

Engineer Approval by

Signature  Supervising Transportation Engineer William Casey, Supervising T.E. Date 11-2-12

We the undersigned contractor, have given careful consideration to the change proposed and agree, if this proposal is approved, that we will provide all equipment, furnish the materials, except as otherwise be noted above, and perform all services necessary for the work above specified, and will accept as full payment therefor the prices shown above.

NOTE: If you, the contractor, do not sign acceptance of this order, your attention is directed to the requirements of the specifications as to proceeding with the ordered work and filing a written protest within the time therein specified.

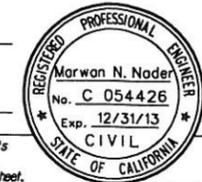
Contractor Acceptance by

Signature  (Print name and title) BRIAN A. PETERSEN - PROJECT DIRECTOR Date 01NOV12



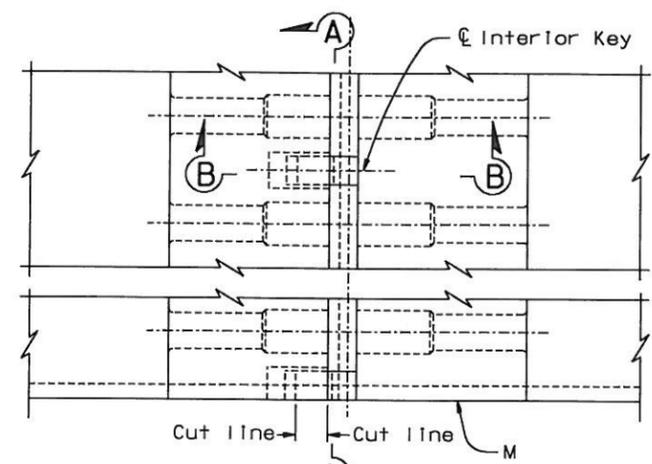
DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	76052	1204

REGISTERED ENGINEER - CIVIL
 08-29-12
 PLANS APPROVAL DATE
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

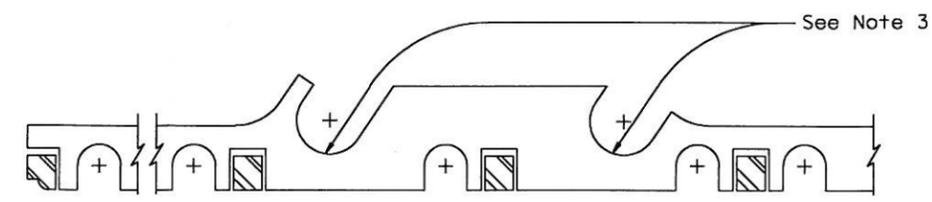


T.Y. LIN / MOFFATT & NICHOL
 825 BATTERY STREET
 SAN FRANCISCO, CA 94111

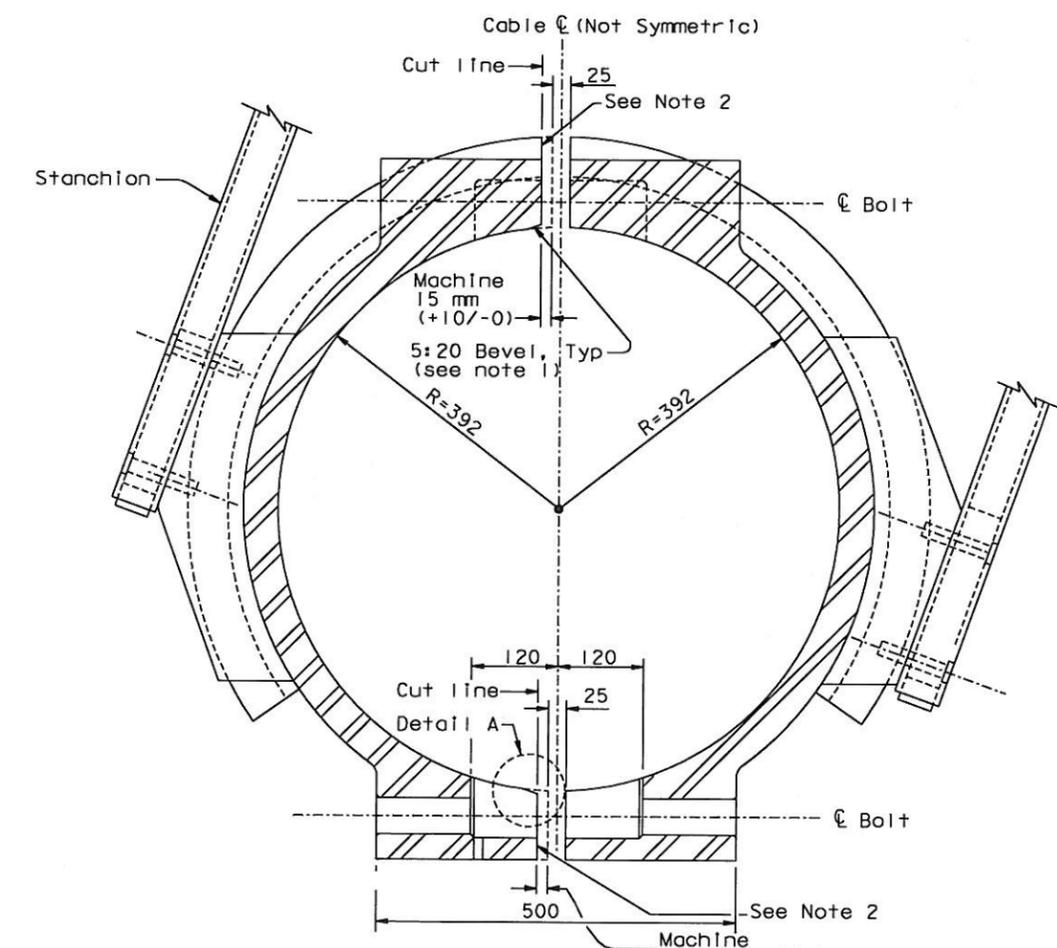
Caltrans now has a web site! To get to the web site, go to: <http://www.dot.ca.gov>



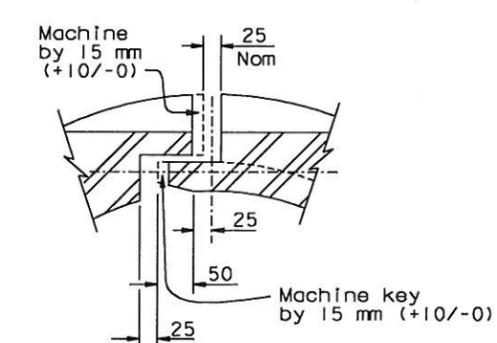
PLAN VIEW
1:5



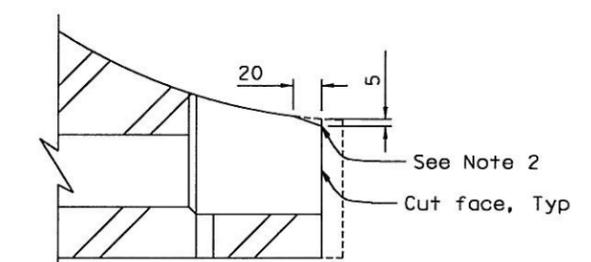
SECTION A-A (Type 1 shown)
1:5 (Type 2 similar)



SECTION
1:5



JOINT AT KEY
SECTION B-B (See Note 2)
1:5



DETAIL A (See Note 1)
1:2.5

NOTES:

1. Bevel inside corner of cut gap face by 5:20 top and bottom.
2. Dress all cut edges to 2 mm minimum radius.
3. Dress edge of suspender groove to 5 mm minimum radius.
4. For information not shown, see "Cable Band Details No.3" sheet.

CONTRACT CHANGE ORDER NO. 247
 SHEET 3 OF 3

ALTERNATE CABLE BAND DETAIL (FIELD ADJUSTMENTS)

(COUNTERMEASURES FOR REDUCED CABLE BAND GAPS)

REQUESTS FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE

R. Val Izadeh/V. Toan/Y. L. /W. L. /F. C.
 DESIGN OVERSIGHT
 SIGN OFF DATE 08/29/12

MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
△	08/29/12	CABLE BAND MACHINING	GB	MN	247

DESIGN	BY G. Baker	CHECKED M. Nader
DETAILS	BY J. Duxbury	CHECKED M. Nader
QUANTITIES	BY J. Duxbury	CHECKED M. Nader

PREPARED FOR THE
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

R. Manzanarez
 PROJECT ENGINEER
 BRIDGE NO. 34-0006L/R
 KILOMETER POST 13.2/13.9

SAN FRANCISCO OAKLAND BAY BRIDGE EAST SPAN SEISMIC SAFETY PROJECT	
SELF-ANCHORED SUSPENSION BRIDGE (SUPERSTRUCTURE & TOWER)	
CABLE BAND DETAILS NO. 3B	
CU 04 EA 0120F1	DISREGARD PRINTS BEARING EARLIER REVISION DATES
REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET 34352 OF



FILE -> L:\BB\04-012001\SAS\Contract Plans and CCO\CCO\CCO#247\2-Update 08-29-12\DGN\agcbd03b.dgn

100% P&S&E DATE PLOTTED -> 29 AUG 2012 TIME PLOTTED -> 09:49:46 USERNAME -> DWT\TOW