STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
CONTRACT NO. 04-0120F4
BRIDGE NO. 34-0006L/R
SAN FRANCISCO OAKLAND BAY BRIDGE
EAST SPAN SEISMIC SAFETY PROJECT
SELF ANCHORED SUSPENSION BRIDGE
(SUPERSTRUCTURE AND TOWER)

E2 BEARING AND SHEAR KEY ANCHOR ROD LAYOUT
PER E2 PLAN AT TOP OF CONCRETE

NOTES:
1. FOR GENERAL NOTES AND INFORMATION NOT SHOWN SEE SHEET 05/134 OF
   PROJECT 04-002375/2375-
2. ANCHOR ROD L/D. LOCATIONS APPLY TO ALL RODS FOR ALL BEARINGS AND SHEAR KEYS.
3. ORIENTATION OF ANCHOR ROD L/D, KEY, AND CORRESPONDING RD L/D IS CONSISTENT
   FOR ALL BEARING AND SHEAR KEY ANCHOR ROD L/D.
4. A REFERENCE MARK IS PROVIDED FOR GENERAL ORIENTATION OF THE ANCHOR ROD. THE
   REFERENCE MARK (LOCATION) MAY DIFFER SLIGHTLY FROM THE ORIENTATION AT FAILURE.
   DUE TO ROTATION OF THE ROD AS IT WAS PULLED UP THROUGH THE HOLE.
5. ON 03/14/13, THE TENSION IN SHEAR KEY S1 ROD WAS ADJUSTED BY LOWERING TO
   0.45x (307kips) AFTER SEATING LOSSES. ROD A2 BROKE AT ABOUT 12:15PM PRIOR TO
   LOADING OPERATIONS. ROD 02 BROKE DURING JACKING AT ABOUT 514kips (19,000kips).
6. ON 03/17/13, THE TENSION IN SHEAR KEY S2 ROD WAS ADJUSTED BY LOWERING TO
   0.45x (307kips) AFTER SEATING LOSSES. ROD A2 BROKE DURING JACKING AT ABOUT
   514kips (19,000kips).

E2 BEARING AND SHEAR KEY
ANCHOR ROD STRESSING
ANCHOR ROD FAILURE MAP

PLAN VIEW (LOOKING DOWN)

S1 - SHEAR KEY ROD FAILURE MAP
(21 OF 45/

S2 - SHEAR KEY ROD FAILURE MAP
(11 OF 45/

LEGEND
ANCHOR ROD LENGTH = 17'-6"

ANCHOR ROD LENGTH = 9'-11"

REFERENCE MARK LOCATION
(SEE NOTE 4)

DATE ROD BREAK DISCOVERED
3/08/13 3/15/13
3/09/13 3/14/13
3/11/13 3/15/13
3/12/13

DRAWING CHK:
IN CHARGE: K. SMITH
DATE: 3/13/13

FOR INFORMATION

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
CONTRACT NO. 04-0120F4
BRIDGE NO. 34-0006L/R
DISTRICT: COUNTY / ROUTE 1 / MILEPOST 04
SF 80 13.2 / 13.9
SAN FRANCISCO OAKLAND BAY BRIDGE
EAST SPAN SEISMIC SAFETY PROJECT
SELF ANCHORED SUSPENSION BRIDGE
(SUPERSTRUCTURE AND TOWER)
E2 BEARING AND SHEAR KEY
ERCTION PLAN: ANCHOR ROD STRESSING
ANCHOR ROD FAILURE MAP

Design By: Z. LAURIA
Drawing Chk: K. SMITH
Date: 3/11/13

AB American
Flour