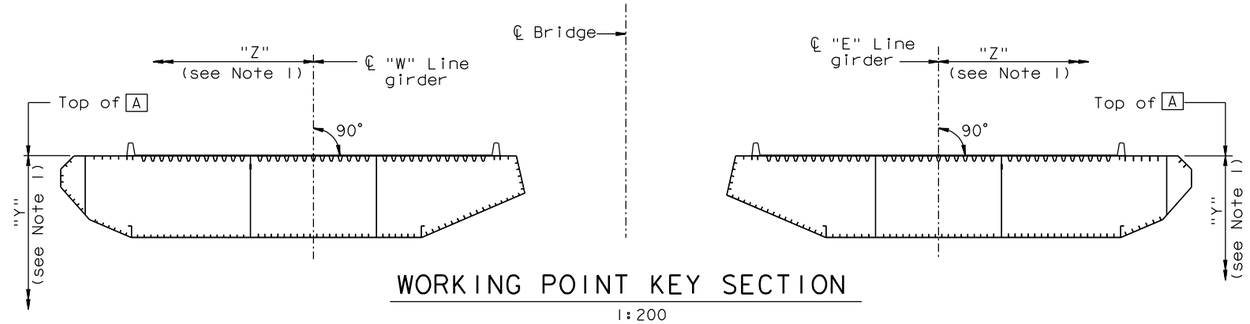

WORKING POINT KEY SECTION

1:200

LONGITUDINAL SHEAR PLATE DIMENSION TABLE (See Note 2)

MEMBER DESIGNATION		PANEL POINT										
		ALONG WORKING LINES E3 and W3				ALONG WORKING LINES E4 and W4				ALONG "E" LINE & "W" LINE		
		1 9-15, 111-120	120-127	8-9, 127-128.3	128.3-Hinge	9-15, 111-126	126-127	8-9, 127-128.3	128.3-Hinge	126-127	127-128.3	128.3-Hinge
Shear PL	t_A	18	25*	1 35	18	18 1	22	1 35	18	22	22	NA
	t_B	25	28*	NA	22	25	NA	NA	22	NA	NA	NA
Horizontal Stiffener	Type A	PL 22x200	PL 25x230*	PL 28x300	PL 16x170	PL 22x200	PL 25x200	PL 28x300	PL 16x170	PL 25x200	PL 25x200	NA
	Type B	PL 28x220	PL 28x240*	NA	PL 20x220	PL 28x220	NA	NA	PL 20x220	NA	NA	NA
	No of Rows	2	9	1 2	2	2	2	2	2	2	2	NA
Vertical Stiffener		PL 22x240	WT 305x41*	PL 30x330	PL 20x220	PL 22x240	PL 22x240	PL 30x330	PL 20x220	PL 20x240	PL 20x240	NA
11 (See Note 4)		1 PL 18	PL 25*	PL 35	PL 18	PL 18	PL 22	PL 35 1	PL 18	PL 22	PL 22	NA
Longitudinal Splice	PL A	12	16*	22	12	12	14	22	12	14	NA	NA
	PL B	16	18*	NA	14	16	NA	NA	14	NA	NA 1	NA
	Bolts @ Max Spacing	M24@85	M27@85	M27@85	M24@85	M24@85 1	M24@85	M27@85	M24@85	M24@85	M24@85	NA
Construction Splice	Bolts	M22 1	M27	M27	M24	M22	M24	M27	M24	M24	M24	NA
Access Opening Location		PP115.5	PP122.5 (With Door)	NA	Hinge (West of)	PP115.5, PP122.5, PP125.5 1	NA	NA	Hinge (West of)	NA	NA	NA

* Indicates SPCM PL

BOX GIRDER DECK SUPERELEVATION TRANSITION
(TOP OF STEEL)

ROADWAY	BEGIN		END	
	STATION	SUPERELEVATION	STATION	SUPERELEVATION
EB	61+60.0	2%	61+81.17	3%
WB	61+68.8	2%	61+91.30	3%

1

WORKING POINT COORDINATE TABLE

LOCATION		WORKING POINT	Y	Z
GIRDER	PANEL POINT			
"W" LINE	118	WWP118	868	18169
	121	WWP121	868	18225
	124	WWP124	5500	14102
	127	WWP127	5500	14144
	128	WWP128	868	13408
"E" LINE	118	EWP118	868	18362
	121	EWP121	868	18325
	124	EWP124	5500	14179
	127	EWP127	5500	14177
	128	EWP128	868	13408

GENERAL LAYOUT OF EAST TRANSITION

All sections through the girder are dimensioned with respect to the "W" and "E" lines, which are determined from the highway drawings. Dimensions shown as horizontal are measured parallel to the roadway deck, and dimensions shown as vertical are measured perpendicular to the deck. Due to the highway curvatures and superelevations, the directions shown as horizontal and vertical vary with the station. The layout of the transition structures may be achieved by performing the following tasks:

1. Determine the "W" and "E" line locations.
2. Determine the spatial orientations of all floorbeams.
3. Determine the spatial locations of the working points given in the table.
4. Determine the locations of all working lines.
5. Determine the intersections of the working lines with the planes of the floorbeams.

The following working lines are straight lines between the defined working points:

Line	Start	End
E17	EWP121	EWP127
E18	EWP118	EWP124
E19	EWP118	EWP121
E19	EWP121	EWP128
E13/E18	EWP124	EWP127
E18	EWP127	EWP128
E13	EWP127	Pt Q
W17	WWP121	WWP127
W18	WWP118	WWP124
W19	WWP118	WWP121
W19	WWP121	WWP128
W13/W18	WWP124	WWP127
W18	WWP127	WWP128
W13	WWP127	Pt Q

Lines E13, E14, W13, W14 shall be straight lines in plan only. They shall be located vertically as shown in the sections.

LEGEND:

t_A Typical thickness of longitudinal shear PL Type 2 (see Note 2)

t_B Thickness of Long shear PL Type 2 strip with opening (see Note 2)

NOTES:

1. Dimension "Y" is measured perpendicular to the slope of girder PL A. Dimension "Z" is measured parallel to the slope of girder PL A.
2. For longitudinal shear PL Type 2 details, see "Girder At East Transition No.15" sheet.
3. The Contractor shall submit geometric layouts to the Engineer for approval prior to producing shop drawings of the East Transition Girders.
4. 1 To simplify fabrication, values in the "Working Point Coordinate Table" may be adjusted, subject to review and approval of the Engineer.
5. At the Contractor's option, PL 20 may be used in lieu of PL 18, subject to review and approval of the Engineer.

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

REGISTERED PROFESSIONAL ENGINEER Marwan N. Nader No. C 054426 Exp. 12/31/13 CIVIL STATE OF CALIFORNIA

FOR REVISIONS ONLY

CONTRACT CHANGE ORDER NO. _____
SHEET ____ OF ____

REQUESTS FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
Roya Valizadeh / Vong Toan / Y Liu
SIGN OFF DATE 04/18/12

MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
1	04/18/12	EAST END OBG	GB	MN	87

REVISIONS

DESIGN	BY G. Baker	CHECKED	P. Ritchie
DETAILS	BY M. Gulyas	CHECKED	T. McMeans
QUANTITIES	BY G. Baker	CHECKED	M. Roberts

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)

GIRDER AT EAST TRANSITION NO. 9

Rev. Date: 5-18-98

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 04
EA 0120F1

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) 01/15/99 05/13/99 08/02/99 05/31/01 04/08/02 07/01/02 12/19/02

SHEET 274R1 OF

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USERNAME => DWinrow DATE PLOTTED => 18 APR 2012 TIME PLOTTED => 11:12:39

100 % PS&E

Caltrans Metric

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	691R1	1204

George Baker
REGISTERED ENGINEER - CIVIL
12-6-04
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER George S. Baker No. C 57112 Exp. 12/31/05 CIVIL STATE OF CALIFORNIA

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