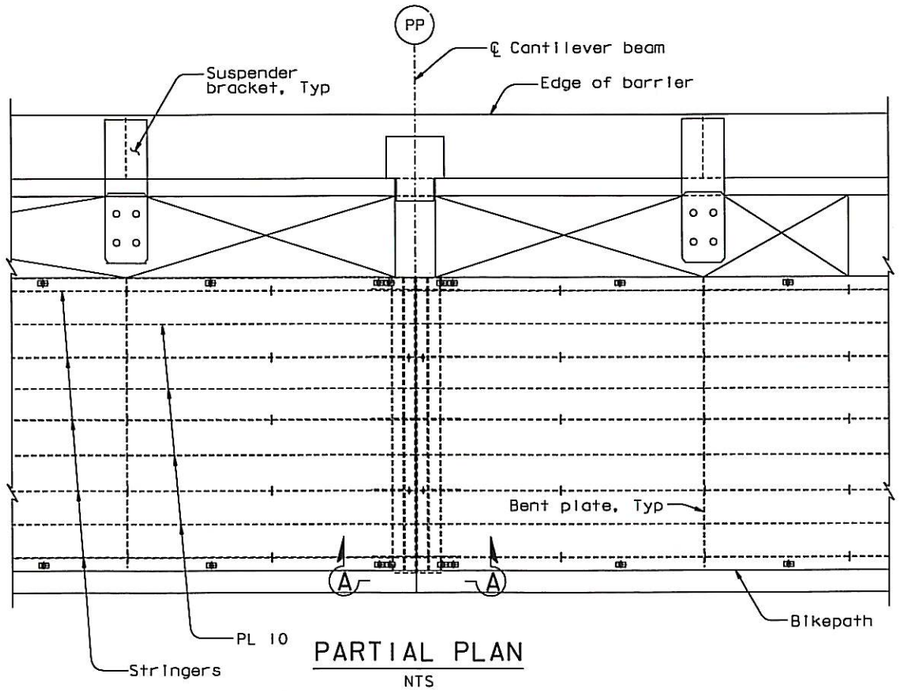
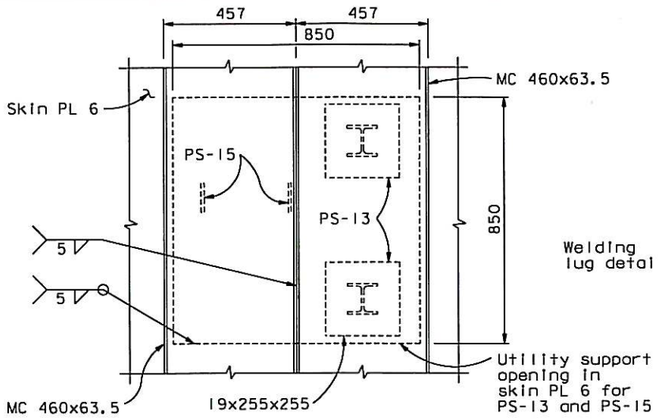
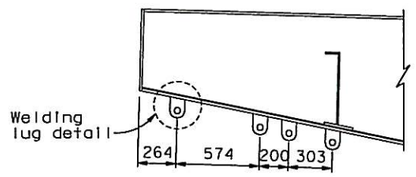


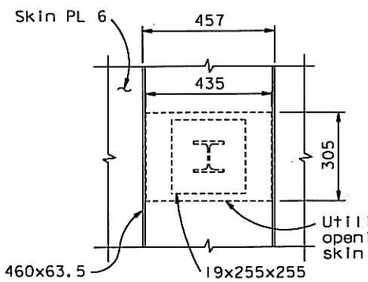
PARTIAL PLAN
NTS



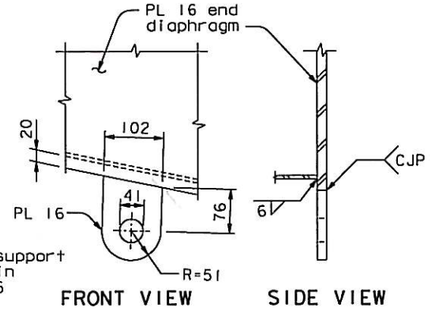
DETAIL B
1:10



SECTION P-P
1:20
(Traveler rails not shown)

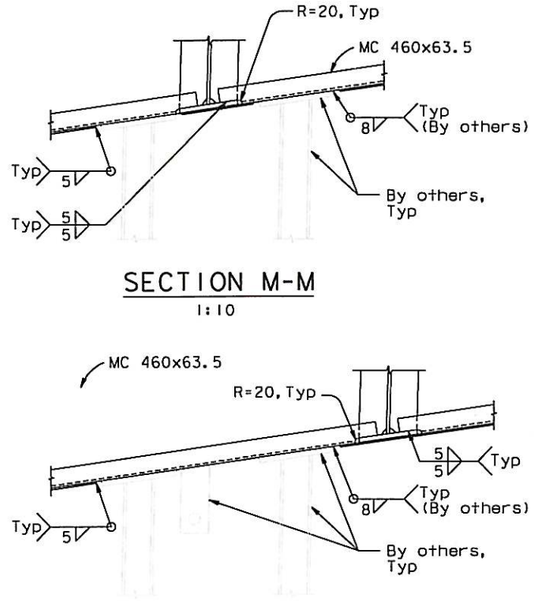


DETAIL C
1:10



FRONT VIEW SIDE VIEW

WELDING LUG DETAIL
1:5



SECTION M-M
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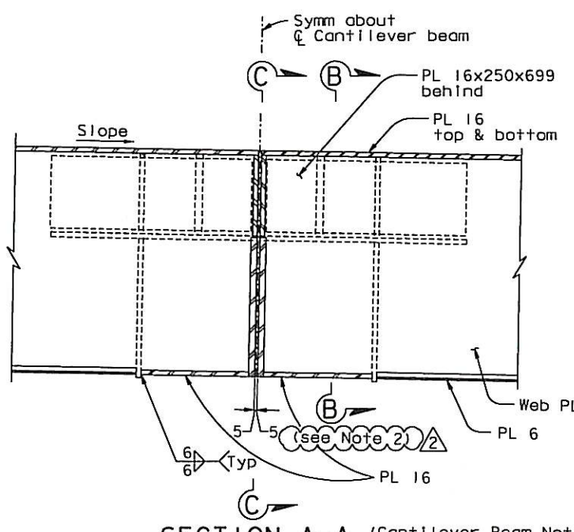
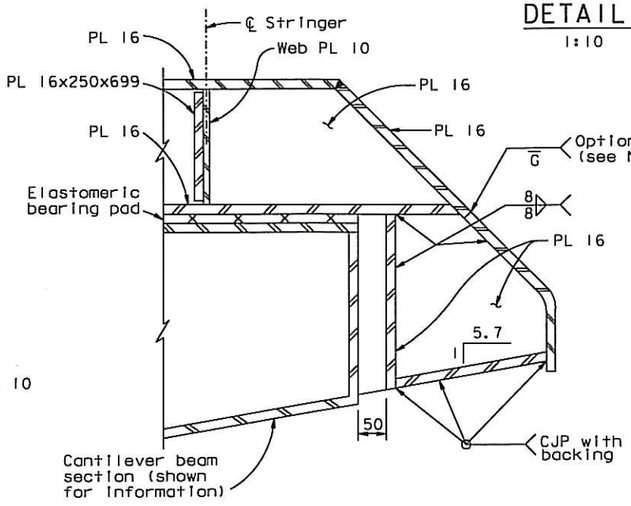


SECTION A-A
(Cantilever Beam Not Shown For Clarity)
NTS



SECTION B-B
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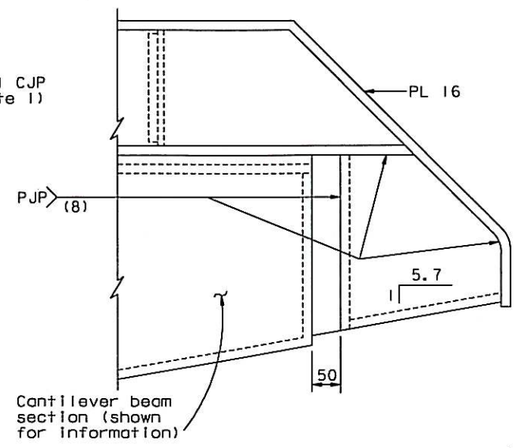

SECTION C-C
NTS

SECTION N-N
1:10

NOTES:

1. For Bikepath segments that have been fabricated without a "Closure Box", a CJP shall be used.
2. Tolerance on the gap between bikepath panels shall be (+20 mm, -0 mm).

CONTRACT CHANGE ORDER NO. 228 S1
SHEET 2 OF 14

REQUESTS FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE

CLOSURE BOX FOR BIKEPATH BOTTOM PLATE

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

MARK	DATE	REVISIONS	BY	CH'D	CCO#
2	08/17/12	BIKEPATH LEVELING	AB	TH	228S1
1	08/20/10	BIKEPATH DETAILS	AB	TH	99
0	07/24/09	BIKEPATH DETAILS	CC	TH	99

DESIGN	BY T. Ho	CHECKED G. Baker	
DETAILS	BY J. Duxbury	CHECKED C. Chol	
QUANTITIES	BY J. Duxbury	CHECKED C. Chol	

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)

BIKEPATH FRAMING DETAILS NO. 7

R. Vallzadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 08/17/12

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) 07/27/09

SHEET 407S1R2 OF

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DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	407S1R2	1204

REGISTERED ENGINEER - CIVIL
Tien Hung Ho
No. C 43990
Exp. 06/30/13
CIVIL
STATE OF CALIFORNIA
07-27-09
PLANS APPROVAL DATE

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

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DATE PLOTTED => 17 AUG 2012
USERNAME => DWinrow

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	825R6	1204

REGISTERED ENGINEER - CIVIL

12-6-04
PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER — Tien Hung Ho — No. C 43990 — Exp. 6/30/13 — CIVIL — STATE OF CALIFORNIA

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

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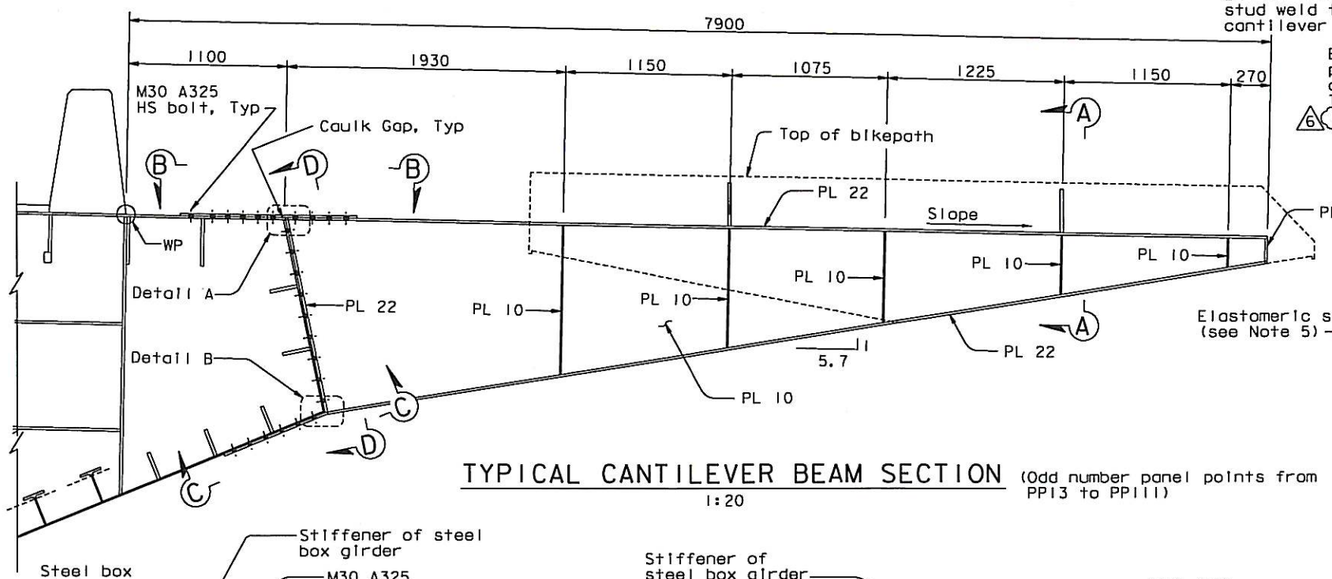
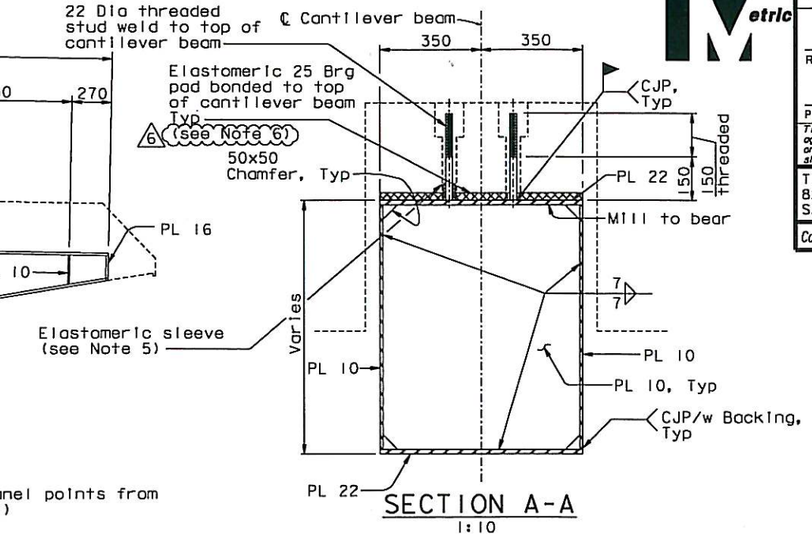
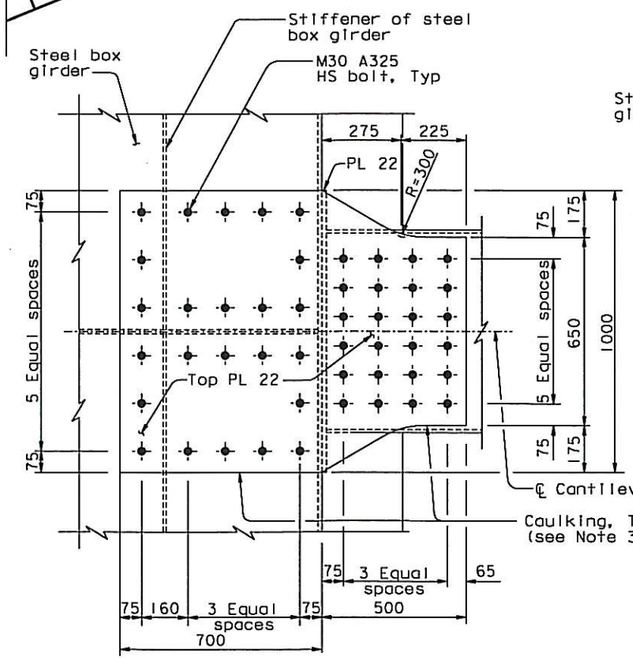


TYPICAL CANTILEVER BEAM SECTION
1:20

(Odd number panel points from PP13 to PP111)



SECTION A-A
1:10



SECTION B-B
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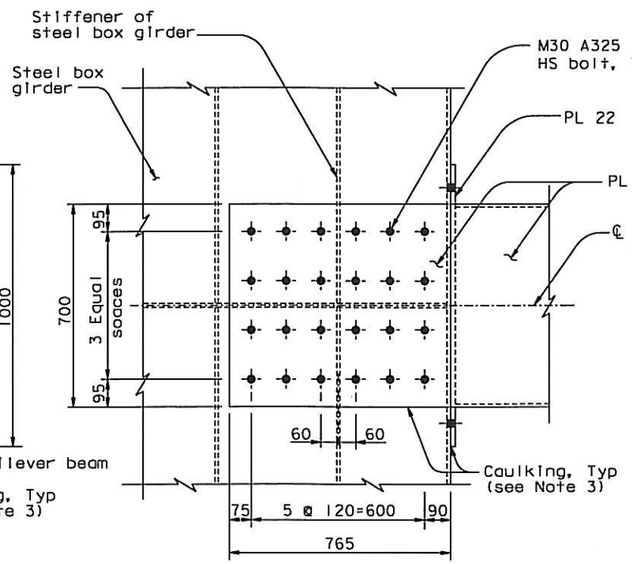

SECTION C-C
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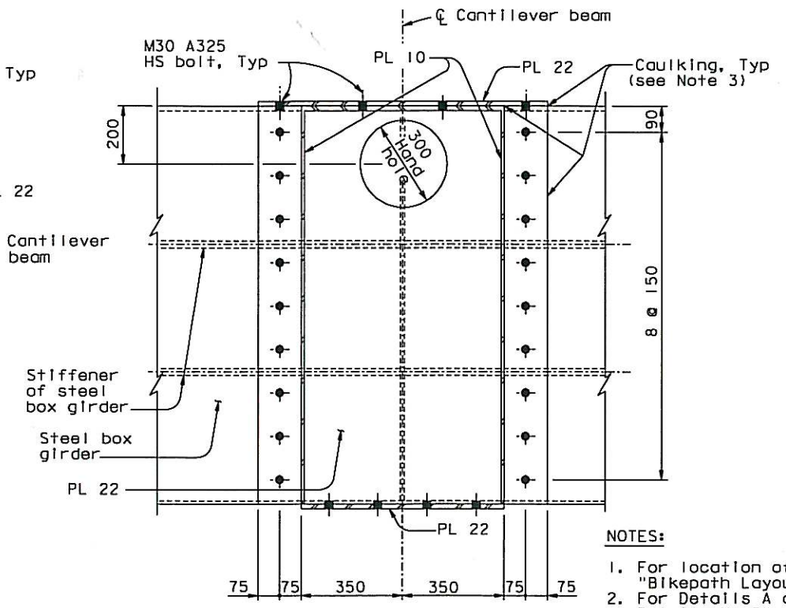

SECTION D-D
1:10

NOTES:

1. For location of typical cantilever beam, see "Bikepath Layout" sheets.
2. For Details A and B, see "Suspender Bracket Details No. 2" sheet.
3. Caulking shall be provided along all edges of bolted connection between bikepath cantilever beam and box girder.
4. Note deleted.
5. For elastomeric sleeve detail, see "Bikepath Details No. 4A" sheet.
6. For levelling shim details at stud locations, see "Bikepath Details No. 23" sheet.

CONTRACT CHANGE ORDER NO. 228 S1
SHEET 3 OF 14

REQUESTS FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE

MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
6	08/17/12	BIKEPATH LEVELING	AB	TH	228S1
5	08/10/11	BIKEPATH PAD REVISIONS	GB	TH	211
4	01/25/11	BIKEPATH STUD ISSUE	CC	TH	186
3	08/20/10	BIKEPATH DETAILS	TH	CC	99
2	07/07/08	CAULKING	AS	TH	66
1	01/20/07	BIKEPATH BRACKETS	GB	TH	33

REVISIONS

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 08/17/12

DESIGN	BY T. Ho	CHECKED T. McMeans	
DETAILS	BY R. Xu	CHECKED P. Ritchie	
QUANTITIES	BY C. Bernardo	CHECKED S. Shi	

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)

BIKEPATH DETAILS NO. 1

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): 05/2005 | 06/2005 | 05/2006 | 01/2007 | 01/2008 | 12/2010 | 11/2011

SHEET 408R6 OF

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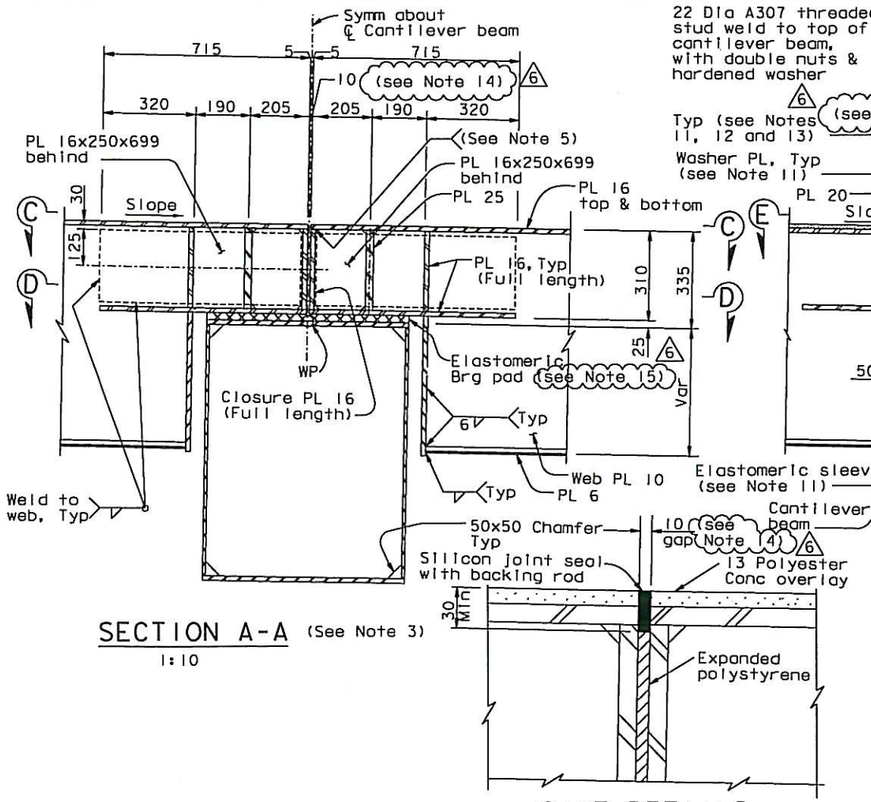
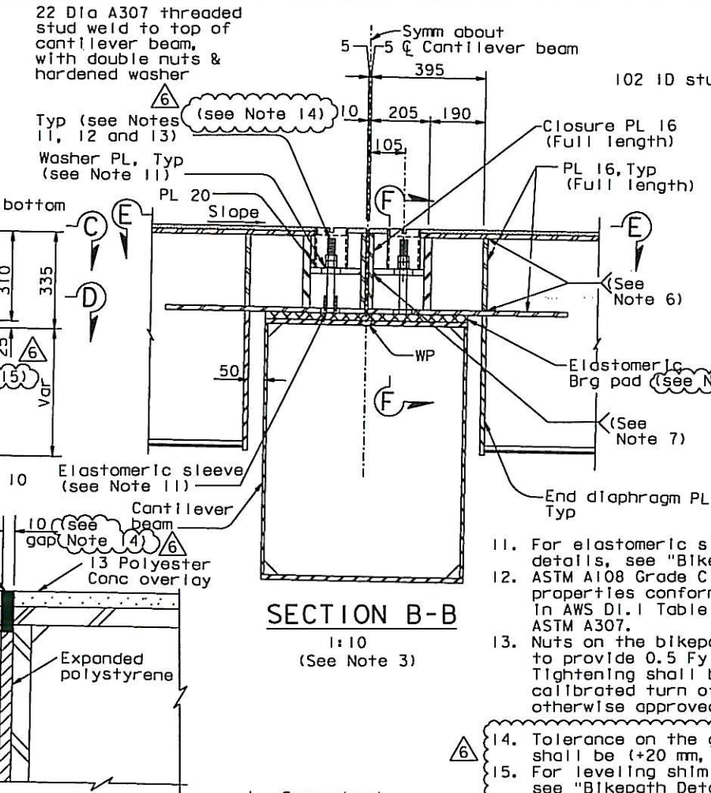


SECTION A-A (See Note 3)

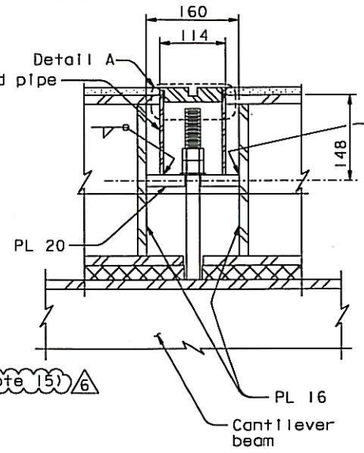
1:10



SECTION B-B

1:10

(See Note 3)

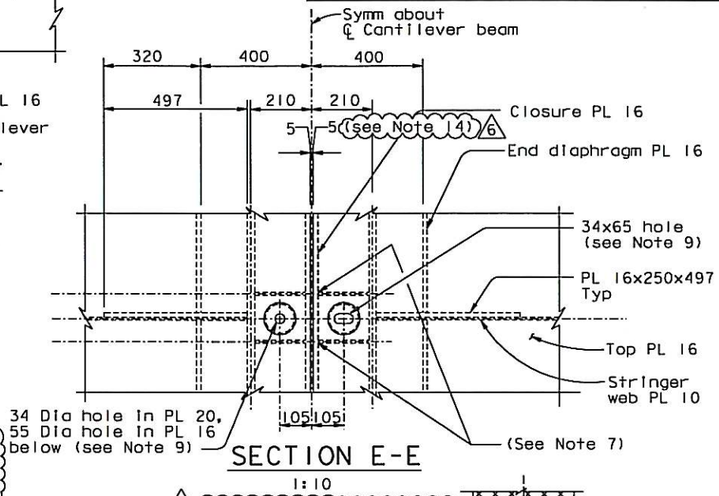


SECTION F-F

1:5

11. For elastomeric sleeve detail and plate washer details, see "Bikepath Details No.4A" sheet.
12. ASTM A108 Grade C1018, with mechanical properties conforming to that of Type B Studs in AWS D1.1 Table 7.1, may be used in lieu of ASTM A307.
13. Nuts on the bikepath panel shall be tightened to provide 0.5 Fy tension in the studs. Tightening shall be performed using a calibrated turn of the nut method or as otherwise approved by the Engineer.

6 14. Tolerance on the gap between bikepath panels shall be (+20 mm, -0 mm).
15. For leveling shim details at stud locations, see "Bikepath Details No.23" sheet.



SECTION E-E

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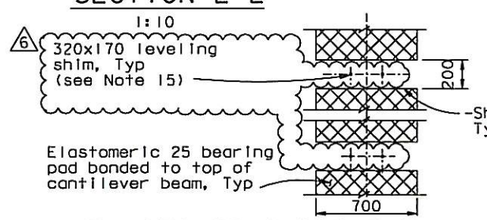
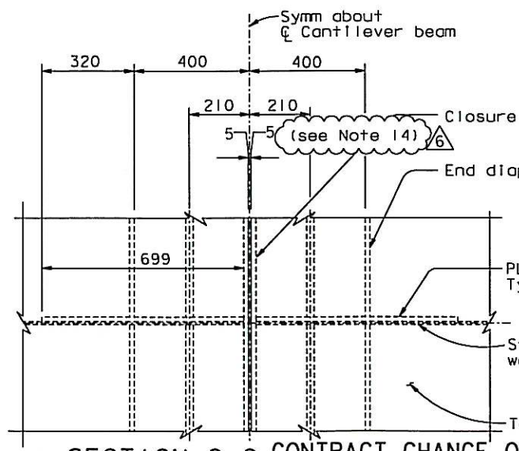


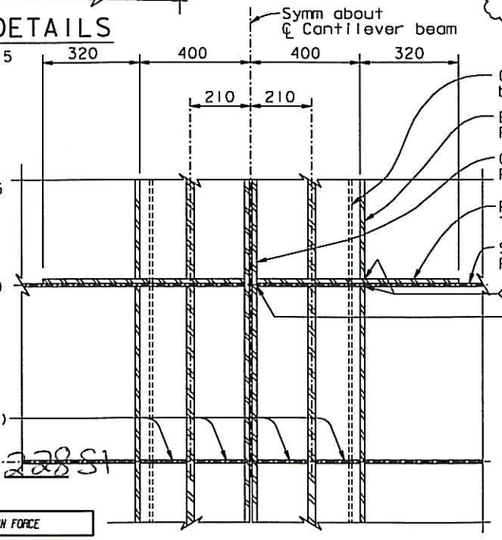
ELASTOMERIC BRG PAD

1:20



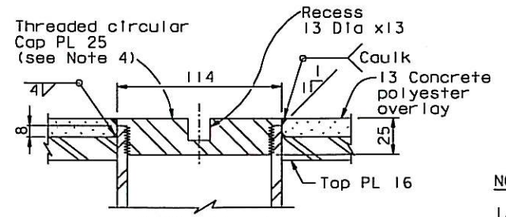
SECTION C-C

1:10



SECTION D-D

1:10



DETAIL A

1:2

5. At the Contractor's option, 10mm effective PJP may be used all around edges of the Closure PL 16.
6. At the Contractor's option, 10mm effective PJP may be used subject to review and approval of the Engineer.
7. At the Contractor's option, tight-fit is acceptable, subject to review and approval of the Engineer.
8. For alternate elastomeric bearing pad details, see "Bikepath Details No.4A" sheet.
9. Between PP 117 and PP 121, the slotted hole size shall be 44x75 in both PL 20 and PL 16 below. The round hole size shall be 44 Dia in PL 20 and 65 Dia in PL 16 below. Elastomeric washer hole shall be 55 Dia.
10. Note deleted.

NOTES:

1. For location of Sections A-A and B-B, see "Bikepath Framing Details No.1" through "Bikepath Framing Details No.6" sheets.
2. At the Contractor's option, Rib PL 10 may be omitted in area bounded by End Diaphragm PL 16 and Closure PL 16, subject to review and approval of the Engineer.
3. At the Contractor's option, CJP with backing, or 8mm double sided fillets may be used in lieu of CJP, subject to review and approval of the Engineer.
4. The threaded cap shall be supplied with two recesses spaced apart such that the cap can be installed with the aid of a spanner wrench. The recesses shall not penetrate the plate. The Contractor may propose alternate details for opening and closing the threaded cap, subject to review and approval of the Engineer. Threads shall follow ANSI standards. The Contractor may propose an alternate threading detail, subject to review and approval of the Engineer.

CONTRACT CHANGE ORDER NO. 2285I
SHEET 4 OF 14

REQUESTS FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE

MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
		REVISIONS			
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5	07/19/12	BIKEPATH PAD REVISIONS	HT	TH	211
4	09/09/11	BIKEPATH PAD REVISIONS	GB	TH	211
3	02/04/11	BIKEPATH STUD ISSUE	CC	TH	186
2	08/20/10	BIKEPATH DETAILS	CC	TH	99
1	07/24/09	BIKEPATH DETAILS	CC	TH	99

R. Vallzadeh/V. Toon/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 08/17/12

Rev. Date: 5-18-98

DESIGN	BY T. Ho	CHECKED T. McMeans	
DETAILS	BY R. Xu	CHECKED P. Ritchie	
QUANTITIES	BY C. Bernardo	CHECKED S. Shi	

PREPARED FOR THE STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

R. Manzanarez
PROJECT ENGINEER

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

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

CU 04
EA 0120F1

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

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 08/27/09 | 05/27/11 | 09/09/11 | 07/19/12 | 11/13/12 | 11/13/25

SHEET 411R6 OF

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	828R6	1204

Caltrans Metric

REGISTERED ENGINEER - CIVIL

Tien Hung Ho
No. C 43990
Exp. 6/30/13
CIVIL
STATE OF CALIFORNIA

12-6-04
PLANS APPROVAL DATE

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SAN FRANCISCO, CA 94111

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SAN FRANCISCO OAKLAND BAY BRIDGE
EAST SPAN SEISMIC SAFETY PROJECT
SELF-ANCHORED SUSPENSION BRIDGE
(SUPERSTRUCTURE & TOWER)

BIKEPATH DETAILS NO. 4

FILE => I:\bb\04-0120I\sas\contract plans and cco\cco\cco#2285I\I-original 08-17-12\dgn\sgbwd04.dgn

USERNAME => DWinrow DATE PLOTTED => 17 AUG 2012 TIME PLOTTED => 13:37:30

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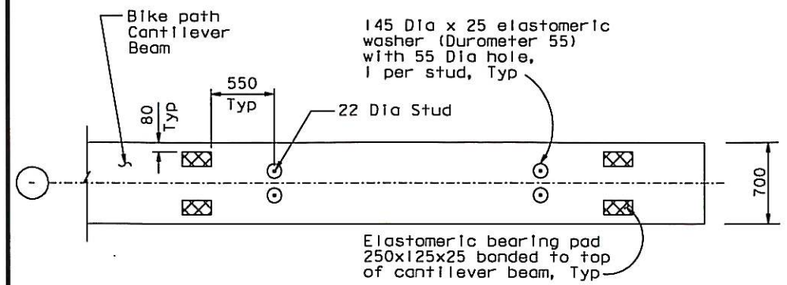
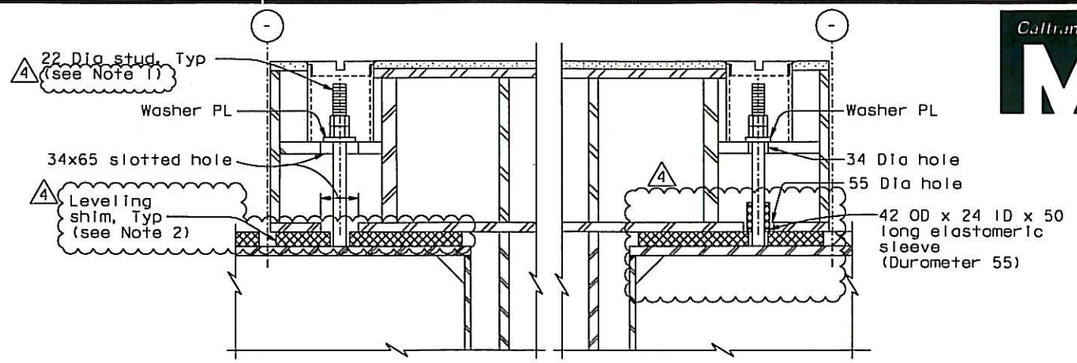
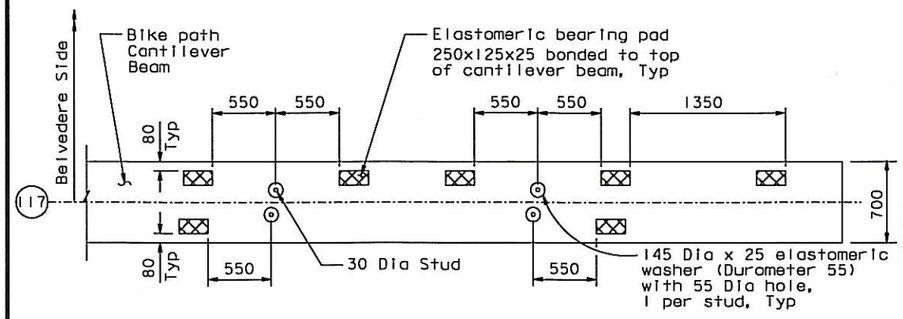


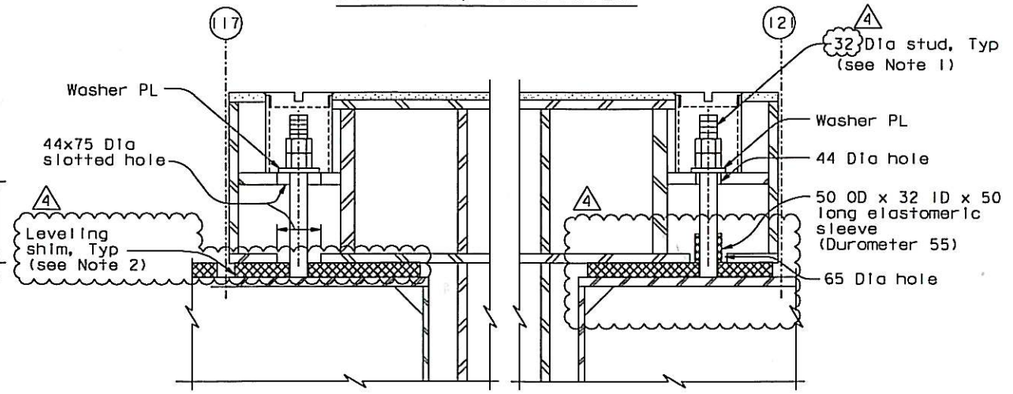
(PP5-PP115, PP123-PP127)



(PP5-PP115, PP123-PP127)



(PP117 SHOWN, PP121 OPPOSITE)



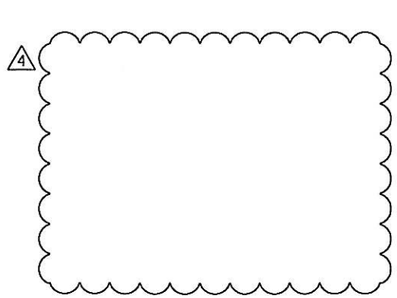
(PP117-PP121)

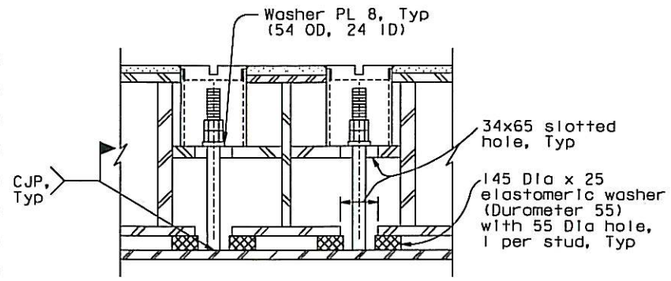
ALTERNATE ELASTOMERIC BEARING PAD

1:25

ELASTOMERIC SLEEVE DETAIL

1:5

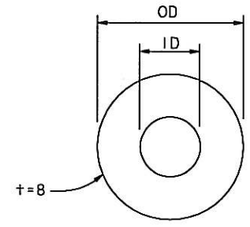




SECTION F-F

1:5

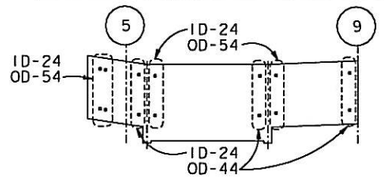
(At Bikepath Pier W2 simple support beam. Erection by Others)



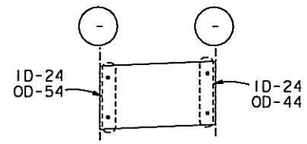
WASHER PLATE DETAIL

NTS

(For ID & OD, see Washer Plate Key Plan)

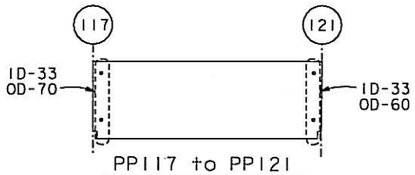


PP5-3.38 to PP9



PP9 to PP117

PP121 to PP127



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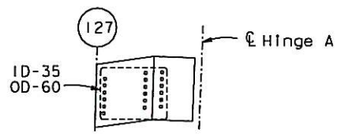

PP127 to Hinge A

WASHER PLATE KEY PLAN

NTS

NOTES:

1. Nuts on the bikepath panel shall be tightened to provide 0.5 Fy tension in the studs. Tightening shall be performed by using a calibrated turn of the nut method or as otherwise approved by the Engineer.
4. 2. For leveling shim details at stud locations, see "Bikepath Details No.23" sheet.

CONTRACT CHANGE ORDER NO. 228S1
SHEET 5 OF 14

REQUESTS FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE

MARK	DATE	REVISIONS	BY	CH'D	CCO#
4	08/17/12	BIKEPATH PANEL ADJUSTMENT	AB	TH	228S1
3	07/19/12	BIKEPATH PAD REVISIONS	HT	TH	211
2	09/09/11	BIKEPATH PAD REVISIONS	GB	TH	211
1	01/25/11	BIKEPATH STUD ISSUE	TH	CC	186
0	08/20/10	BIKEPATH DETAILS	CC	TH	99

DESIGN	BY C. Chol	CHECKED T. Ho	
DETAILS	BY C. Chol	CHECKED T. Ho	
QUANTITIES	BY C. Chol	CHECKED T. Ho	

R. Vallizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 08/17/12

Rev. Date: 5-18-98

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

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

PREPARED FOR THE STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

R. Manzanarez
PROJECT ENGINEER

CU 04
EA 0120F1

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	828S1R4	1204

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

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 01/20/10

SHEET 411S1R4 OF

REGISTERED ENGINEER - CIVIL
Tien Hung Ho
No. C 43990
Exp. 06/30/13
CIVIL
STATE OF CALIFORNIA
08-20-10
PLANS APPROVAL DATE

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SAN FRANCISCO OAKLAND BAY BRIDGE
EAST SPAN SEISMIC SAFETY PROJECT
SELF-ANCHORED SUSPENSION BRIDGE
(SUPERSTRUCTURE & TOWER)

BIKEPATH DETAILS NO. 4A

100 % PS&E

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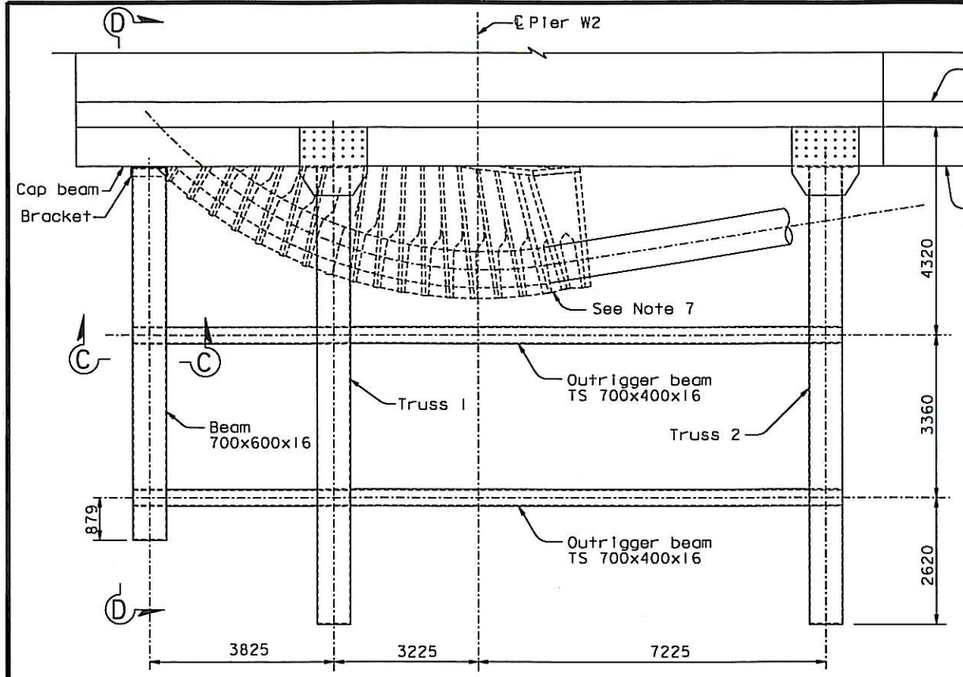
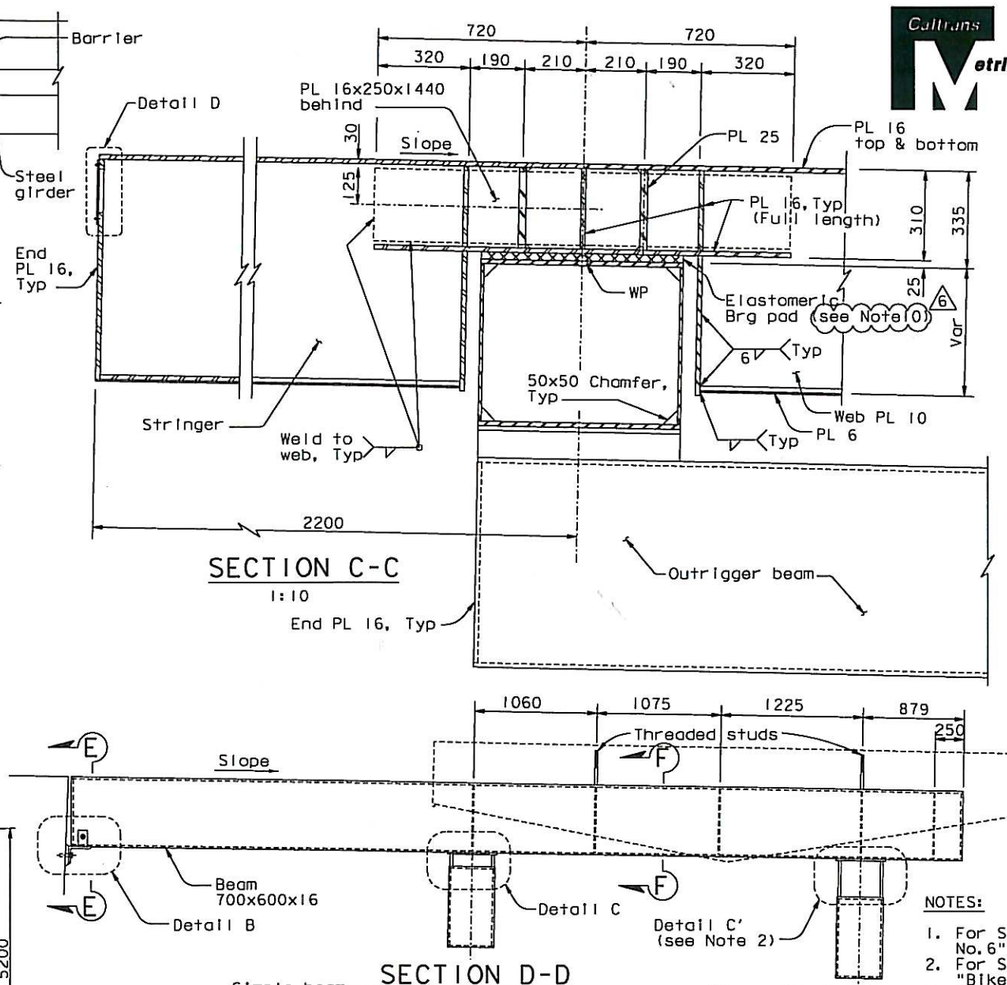


BIKEPATH PARTIAL PLAN AT CAP BEAM

1:60

NOTE: Stringer not shown, for clarity



SECTION C-C

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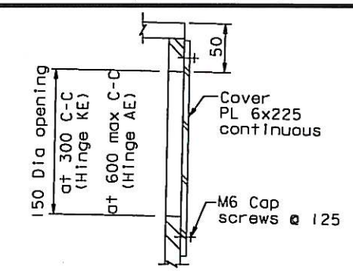

DETAIL D

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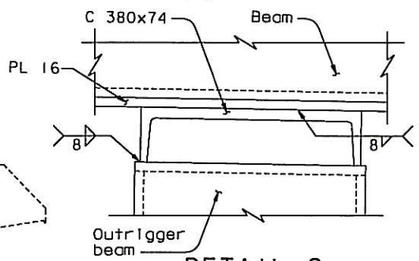

DETAIL C

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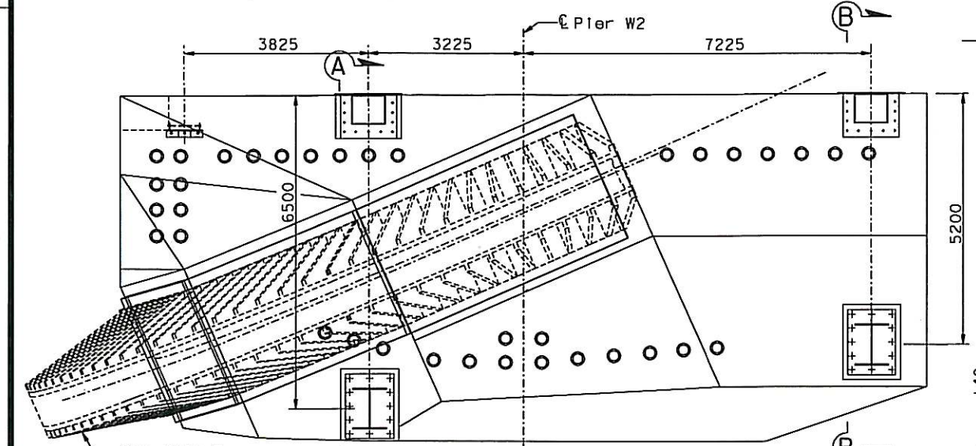
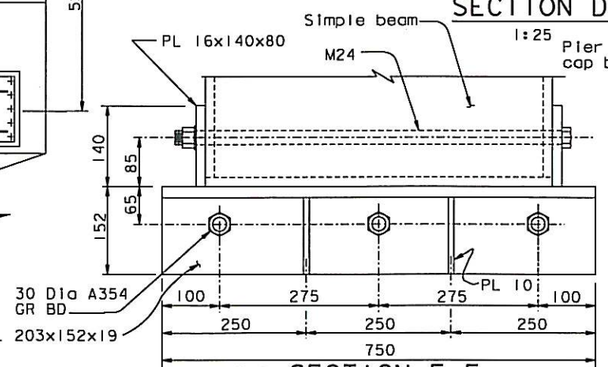


BIKEPATH SIDE VIEW

1:60

SECTION D-D

1:25



SECTION E-E

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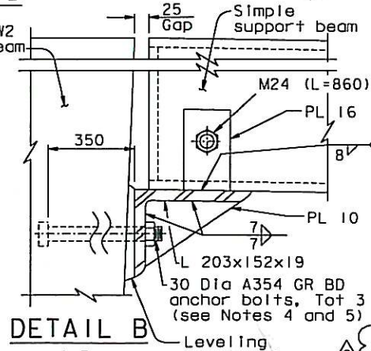

DETAIL B

1:5

NOTES:

1. For Section A-A, see "Bikepath Details No.6" sheet.
2. For Section B-B and Detail C', see "Bikepath Details No.7" sheet.
3. Cantilever Truss 1, Truss 2 and outrigger beams to be installed by Others after demolition of existing structure.
4. The tolerance for placement of the anchor bolts is ±25 mm.
5. The Contractor shall survey the as-built anchor bolt locations and prepare a template. This template shall be trial fit in the field prior to drilling the holes in the angle.
6. The Contractor shall furnish all anchor bolt components and shall provide corrosion protection covering exposed ends.
7. Views of the deviation saddle are for illustration only. For deviation saddle details, see "West Deviation Saddle Details" sheets.
8. For Section F-F, see "Bikepath Details No. 4A" sheet.
9. At the Contractor's option, Detail C' may be used in lieu of Detail C.
10. For leveling shim details at stud locations, see "Bikepath Details No.23" sheet.

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

REQUESTS FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE

MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
		REVISIONS			
6	08/17/12	BIKEPATH LEVELING	AB	TH	22851
5	02/16/11	MISCELLANEOUS BIKEPATH DETAILS	CC	TH	172
4	01/25/11	BIKEPATH STUD ISSUE	TH	CC	186
3	11/12/10	MISCELLANEOUS BIKEPATH DETAILS	CC	TH	172
2	08/20/10	BIKEPATH DETAILS	CC	TH	99
1	05/04/07	W2 CAP BEAM ISD RESOLUTION	AS	TH	3451

CONTRACT CHANGE ORDER NO. 22851
SHEET 6 OF 14

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	829R6	1204

REGISTERED ENGINEER - CIVIL

12-6-04
PLANS APPROVAL DATE

Tien Hung Ho No. C 43990 Exp. 6/30/13 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

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DESIGN OVERSIGHT	DESIGN	DETAILS	QUANTITIES
R. Valizadeh/V. Toan/Y.L./W.L./F.C.	BY T. Ho	BY R. Xu	BY C. Bernardo
SIGN OFF DATE 08/17/12	CHECKED T. McMeans	CHECKED P. Ritchie	CHECKED S. Shi

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)

BIKEPATH DETAILS NO. 5

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): 05/17/01 | 05/20/02 | 01/31/02 | 12/18/02 | 05/20/04 | 11/13/05

SHEET 412R6 OF

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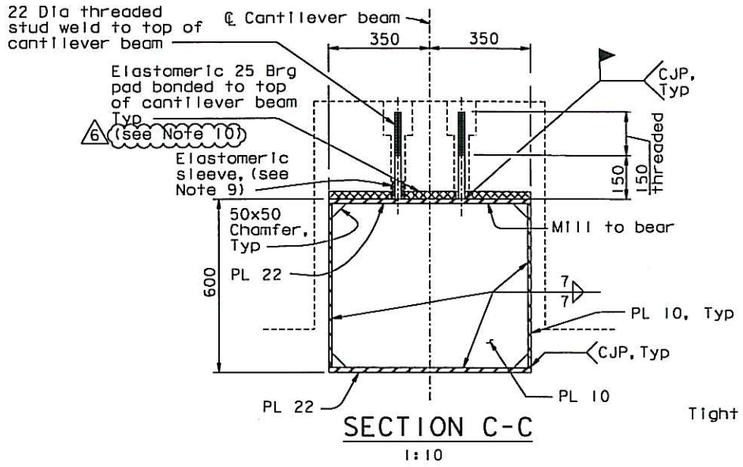

SECTION C-C

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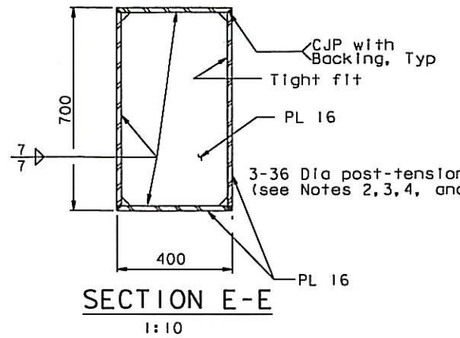

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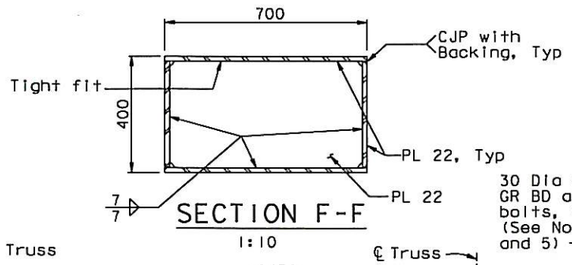

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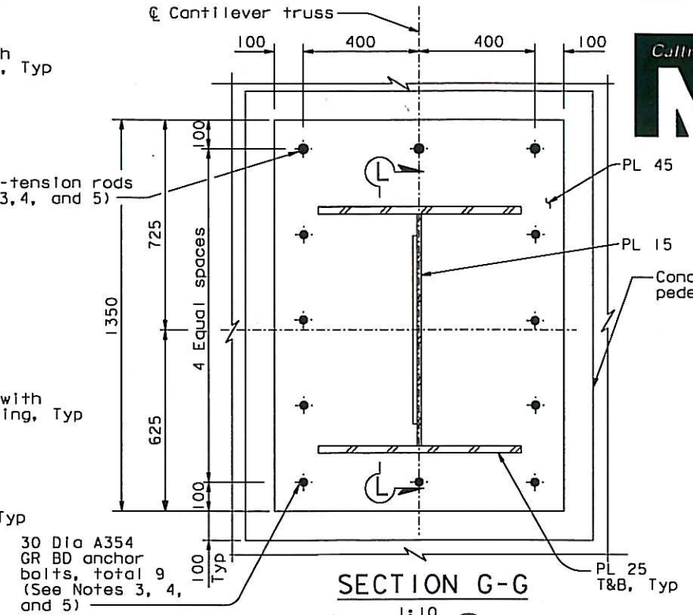

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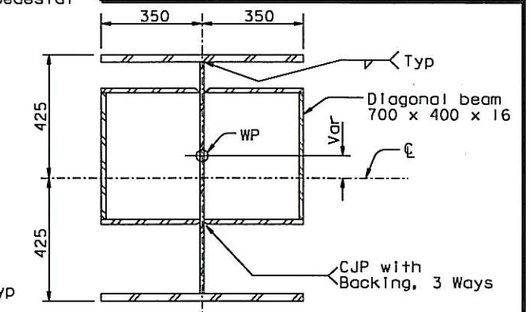

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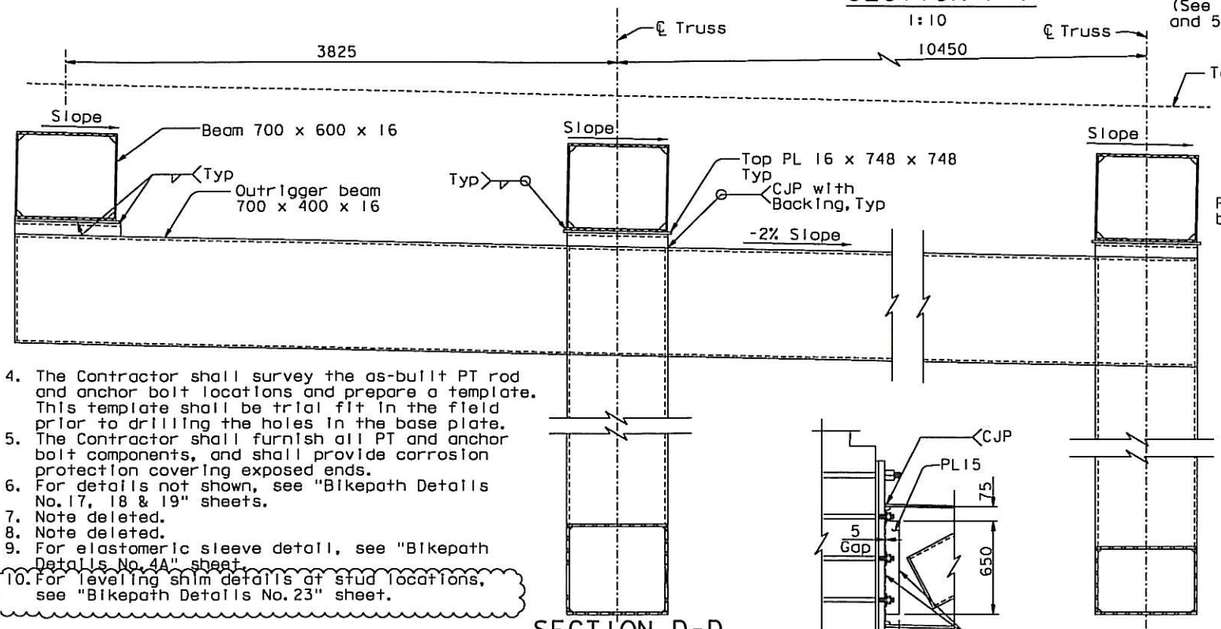

SECTION D-D

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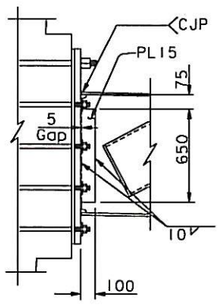

SECTION L-L

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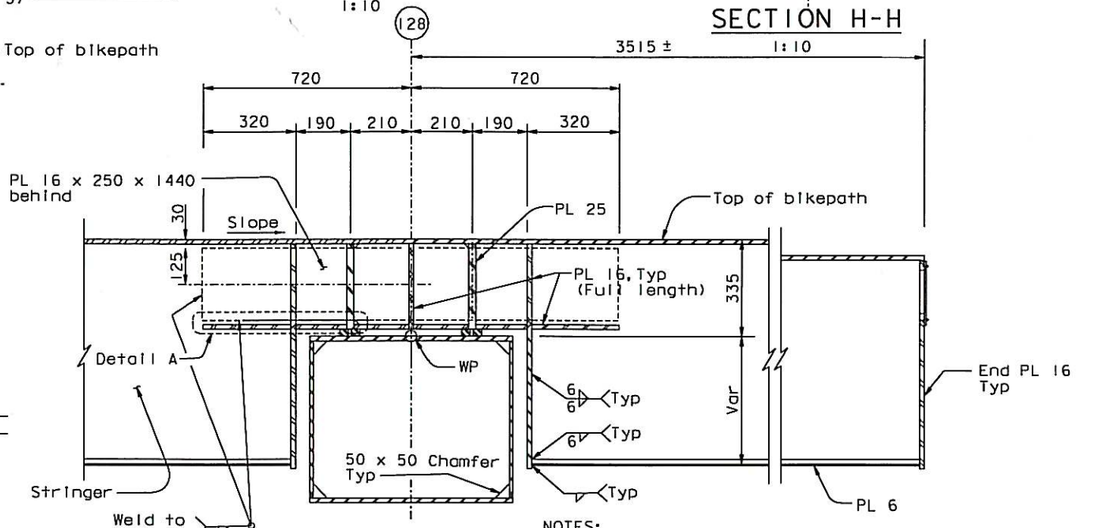

SECTION J-J

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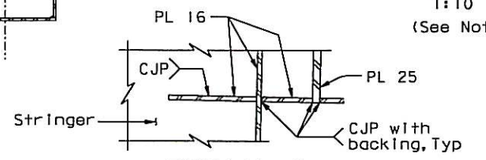
(See Note 6)



DETAIL A

1:10

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

4. The Contractor shall survey the as-built PT rod and anchor bolt locations and prepare a template. This template shall be trial fit in the field prior to drilling the holes in the base plate.
5. The Contractor shall furnish all PT and anchor bolt components, and shall provide corrosion protection covering exposed ends.
6. For details not shown, see "Bikepath Details No. 17, 18 & 19" sheets.
7. Note deleted.
8. Note deleted.
9. For elastomeric sleeve detail, see "Bikepath Details No. 4A" sheet.
6. 10. For leveling shim details at stud locations, see "Bikepath Details No. 23" sheet.

NOTES:

1. For Detail D, see "Bikepath Details No. 5" sheet.
2. PT rods are ASTM A722 high strength 36 Dia rods (Fu=1030 MPa), with standard galvanized steel ducts, unless specified otherwise. The jacking force of 734 KN to be applied by Others. The Contractor may substitute the PT duct with a PT supplier recommended debonding tape, subject to review and approval of the Engineer. If the PT duct substitution is approved by the Engineer, the spherical nut inside the W2 cap beam is not required.
3. The tolerance for placement of the PT rods and anchor bolts is ±25 mm.

CONTRACT CHANGE ORDER NO. 20 228 S1

SHEET 7 OF 14

REQUESTS FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE

MARK	DATE	REVISIONS	BY	CH'D	CCO#
6	08/17/12	BIKEPATH LEVELING	AB	TH	228S1
5	08/10/11	BIKEPATH PAD REVISIONS	GB	TH	211
4	03/04/11	BIKEPATH DETAILS	TH	CC	99
3	01/25/11	BIKEPATH STUD ISSUE	TH	CC	186
2	08/20/10	BIKEPATH DETAILS	TH	CC	99
1	05/04/07	W2 CAP BEAM ISD RESOLUTION	JD	TH	34S1

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	832R6	1204

REGISTERED ENGINEER - CIVIL

Tien Hung Ho, No. C 43990, Exp. 6/30/13, CIVIL, REGISTERED PROFESSIONAL ENGINEER, STATE OF CALIFORNIA

12-06-04

PLANS APPROVAL DATE

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R. Vallzadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 08/17/12

	BY	CHECKED
DESIGN	T. Ho	T. McMeans
DETAILS	R. Xu	P. Ritchie
QUANTITIES	C. Bernardo	S. Shi

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)

BIKEPATH DETAILS NO. 8

Rev. Date: 5-15-98

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): 05/27/05 01/06/06 12/27/06 11/13/08

SHEET 415R6 OF

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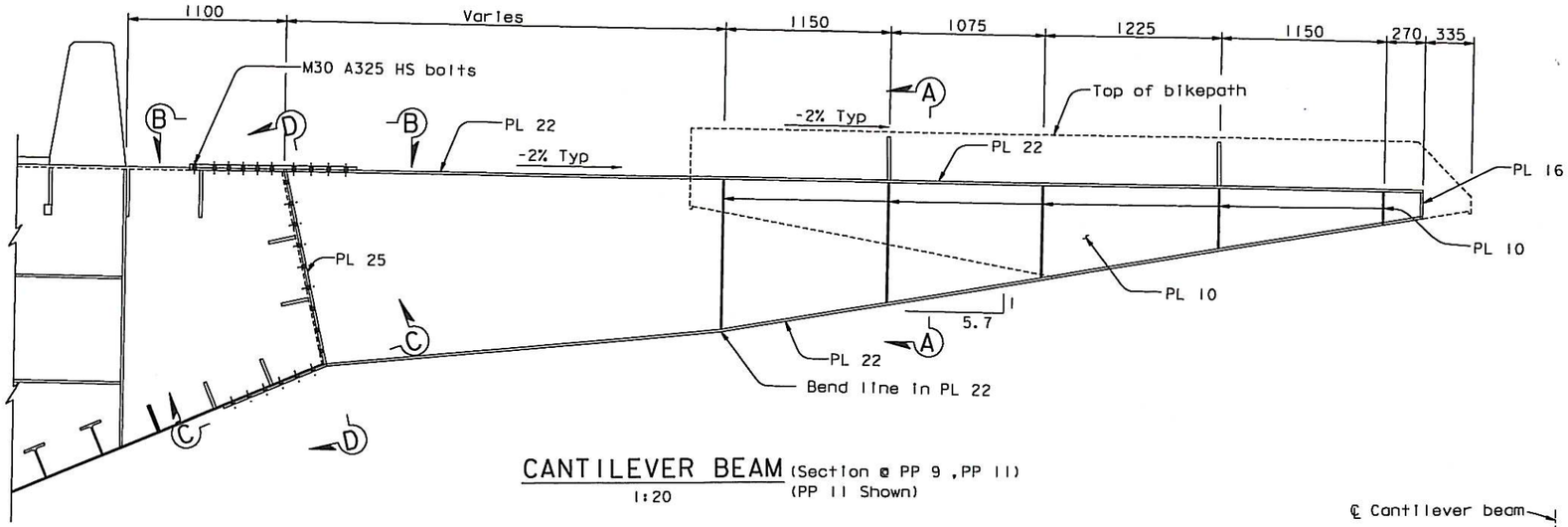
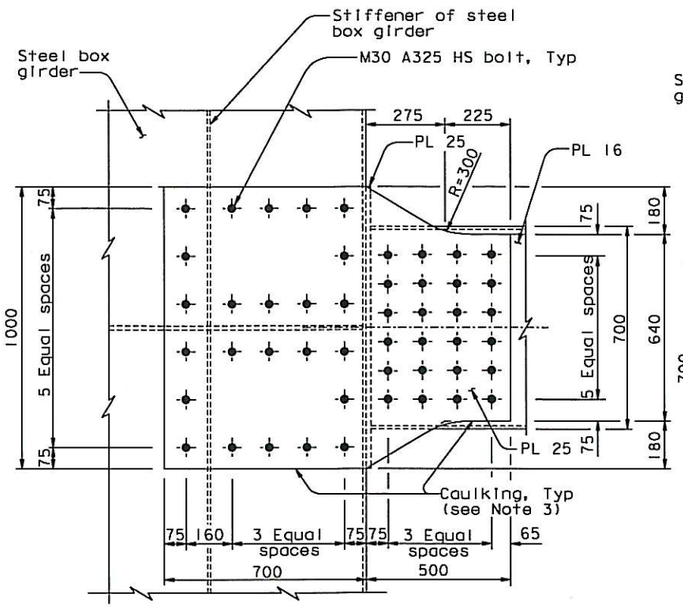


CANTILEVER BEAM (Section @ PP 9 ,PP 11)

1:20 (PP 11 Shown)



SECTION B-B

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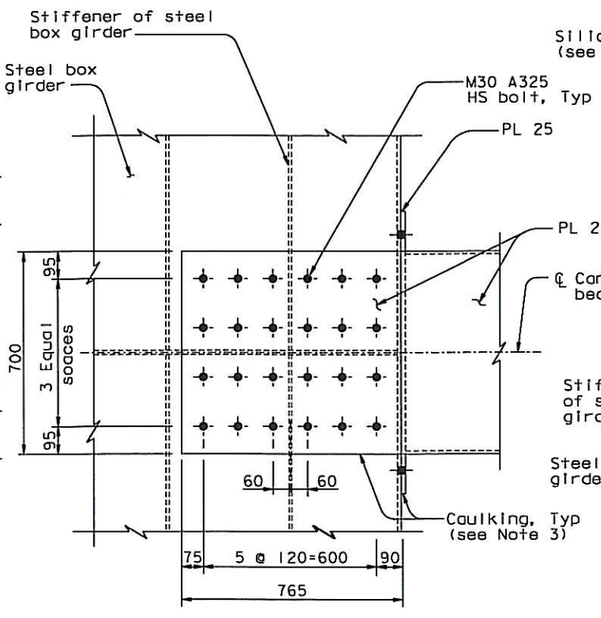

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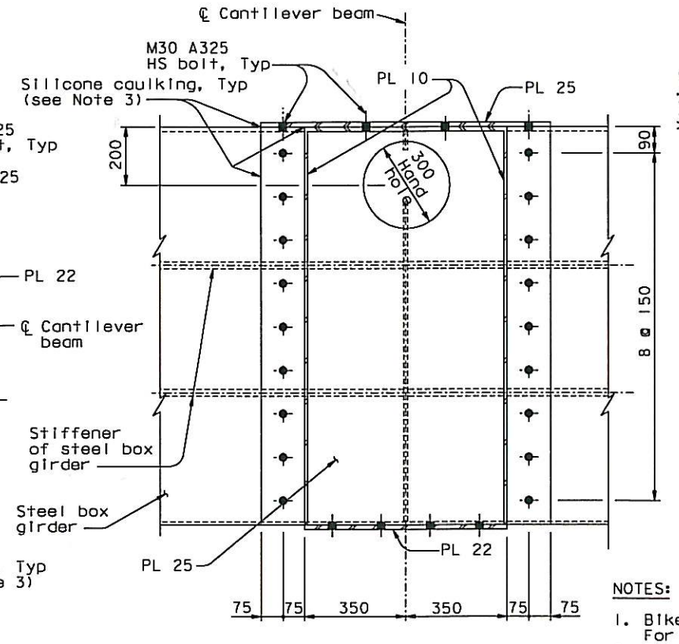

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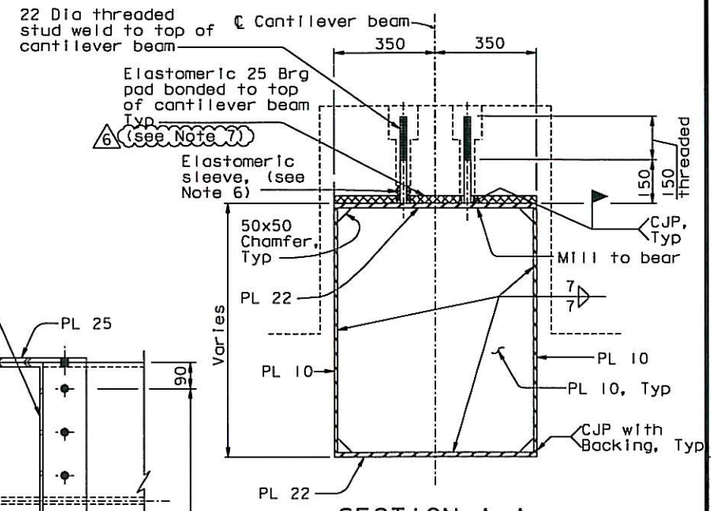

SECTION A-A

1:10

NOTES:

1. Bikepath deck similar to typical bikepath deck. For details, see "Bikepath Details No.3" sheet.
2. For details not shown, see "Bikepath Details No.1" sheet.
3. Caulking shall be provided along edges of bolted connection between bikepath cantilever beam and box girder.
4. Note deleted.
5. Note deleted.
6. For elastomeric sleeve detail, see "Bikepath Details No.4A" sheet.
7. For leveling shim details at stud locations, see "Bikepath Details No.23" sheet.

CONTRACT CHANGE ORDER NO. 228 SI
SHEET 8 OF 14

REQUESTS FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE

MARK	DATE	REVISIONS	BY	CH'D	CCO#
6	08/17/12	BIKEPATH LEVELING	AB	TH	228SI
5	08/10/11	BIKEPATH PAD REVISIONS	GB	TH	211
4	01/25/11	BIKEPATH STUD ISSUE	TH	CC	186
3	08/20/10	BIKEPATH DETAILS	TH	CC	99
2	07/07/08	CAULKING	AS	TH	66
1	07/20/07	BIKEPATH BRACKETS	GB	TH	33

	BY	CHECKED
DESIGN	T. Ho	T. McMeans
DETAILS	R. Xu	P. Ritchie
QUANTITIES	C. Bernardo	S. Shi

R. Vaziadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 08/17/12

Rev. Date: 5-18-98

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

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

R. Manzanarez
PROJECT ENGINEER

CU 04
EA 0120F1

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	833R6	1204

REGISTERED ENGINEER - CIVIL
Tien Hung Ho
No. C 43990
Exp. 6/30/13
CIVIL
STATE OF CALIFORNIA
12-6-04
PLANS APPROVAL DATE

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

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 05/31/01 | 04/06/02 | 01/31/12 | 12/13/12 | 11/13/05

SHEET 416R6 OF

SAN FRANCISCO OAKLAND BAY BRIDGE
EAST SPAN SEISMIC SAFETY PROJECT
SELF-ANCHORED SUSPENSION BRIDGE
(SUPERSTRUCTURE & TOWER)

BIKEPATH DETAILS NO. 9

100 % PS&E

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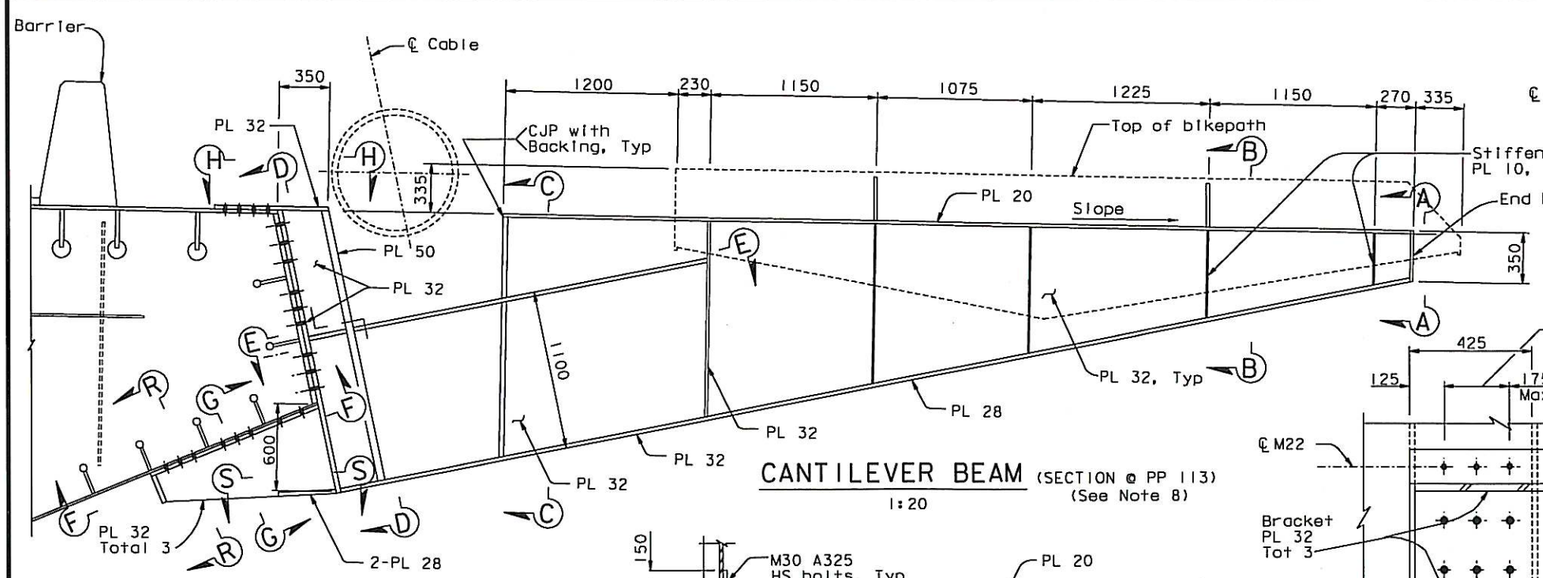

CANTILEVER BEAM (SECTION ℄ PP 113) (See Note 8)

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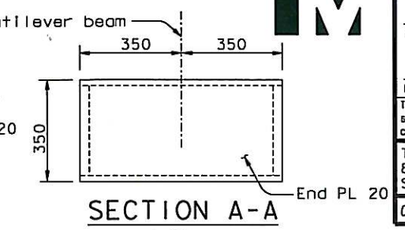

SECTION A-A

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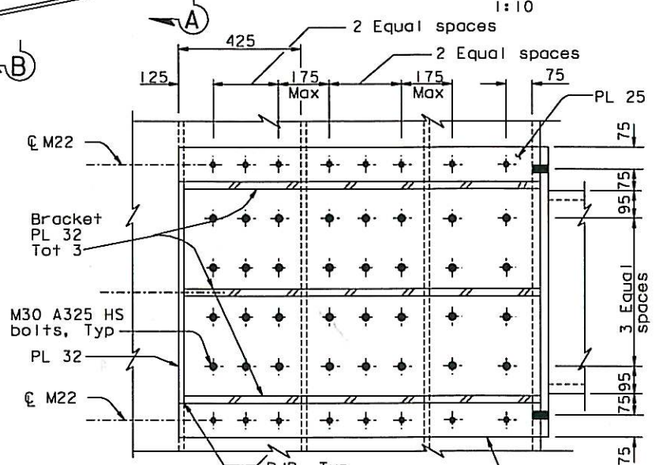

SECTION F-F

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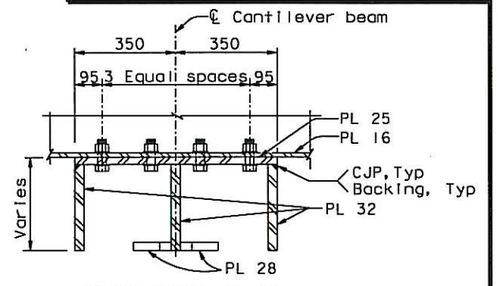

SECTION G-G

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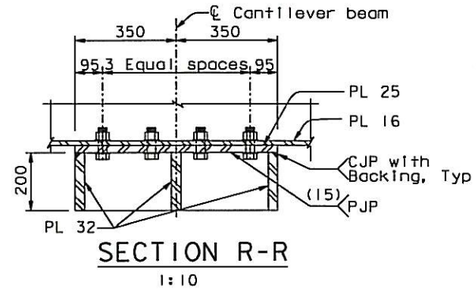

SECTION R-R

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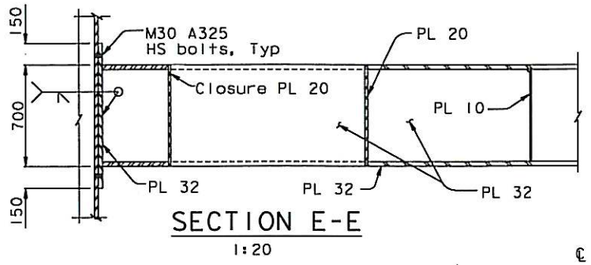
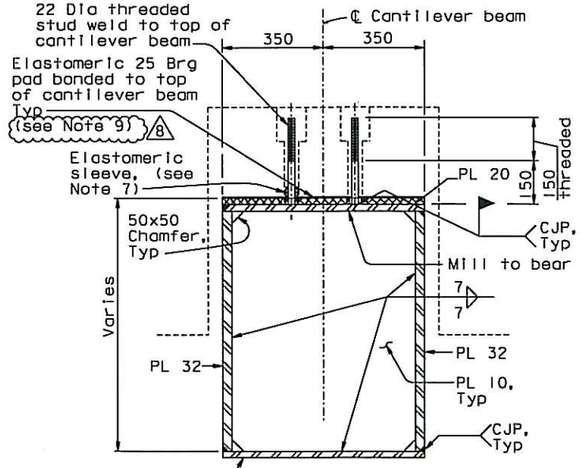


SECTION E-E

1:20



SECTION B-B

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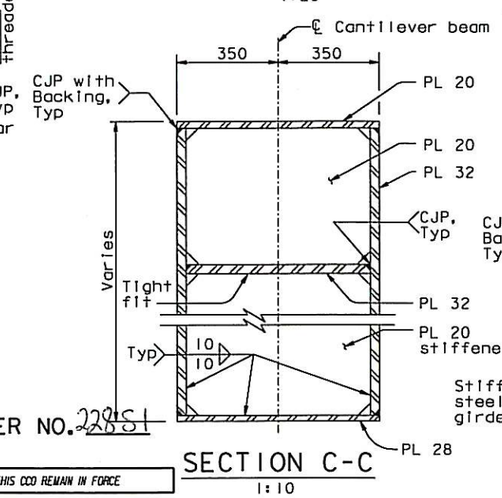

SECTION C-C

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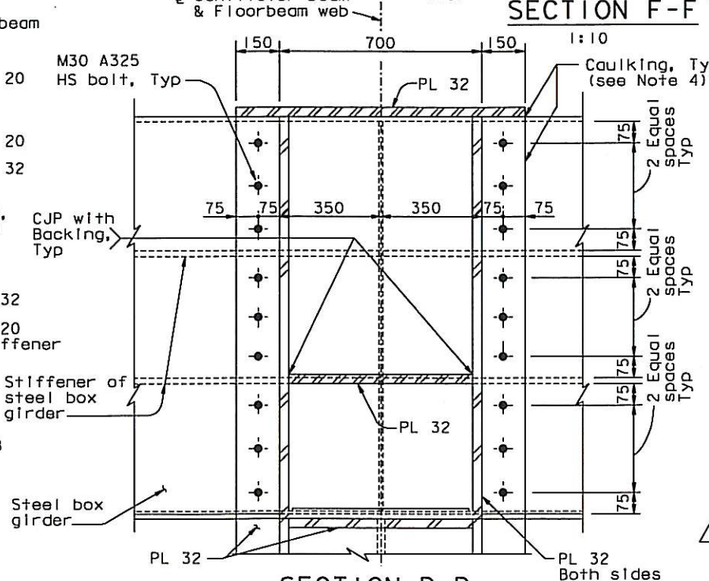

SECTION D-D

1:10

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

NOTES:

1. The cable location shown is based on the information provided in "Suspension Cable Layout" sheets. The Contractor shall verify these locations based on the "as built" cable profile described in "Construction Sequence" sheets. In the event of a conflict, bikepath bracket details may be revised and submitted to the Engineer for review and approval.
2. Bikepath deck similar to typical bikepath deck, for details, see "Bikepath Details No. 3" sheet.
3. For Section H-H, see Section F-F of "Bikepath Details No. 11" sheet.
4. Caulking shall be provided along all edges of bolted connection between bikepath cantilever beam and box girder.
5. Note deleted.
6. Note Deleted.
7. For elastomeric sleeve detail, see "Bikepath Details No. 4A" sheet.
8. For Section S-S, see "Bikepath Details No. 13A" sheet.
9. For leveling shim details at stud locations, see "Bikepath Details No. 23" sheet.

CONTRACT CHANGE ORDER NO. 22851
SHEET 9 OF 14

REQUESTS FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE

MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
8	08/17/12	BIKEPATH LEVELING	AB	TH	22851
7	01/20/12	BIKEPATH CANTILEVER BEAM MODIFICATIONS	DT	TH	233
6	08/10/11	BIKEPATH PAD REVISIONS	GB	TH	211
5	01/25/11	BIKEPATH STUD ISSUE	TH	CC	186
4	08/20/10	BIKEPATH DETAILS	TH	CC	99
3	12/23/08	BIKEPATH DETAILS	TH	MN	99
2	07/07/08	CAULKING	AS	TH	66
1	07/20/07	BIKEPATH BRACKETS	GB	TH	33

REVISIONS

R. Vallizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 08/17/12

	BY	CHECKED
DESIGN	T. Ho	T. McMeans
DETAILS	R. Xu	P. Ritchie
QUANTITIES	C. Bernardo	S. Shi

PREPARED FOR THE STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

R. Manzanarez
PROJECT ENGINEER

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	834R8	1204

REGISTERED ENGINEER - CIVIL
Tien Hung Ho
No. C 43990
Exp. 6/30/13
CIVIL
STATE OF CALIFORNIA
12-6-04
PLANS APPROVAL DATE

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

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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)

BIKEPATH DETAILS NO. 10

CU 04
EA 0120F1

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 05/17/01 01/20/12 07/31/12 12/13/12

SHEET 417R8 OF

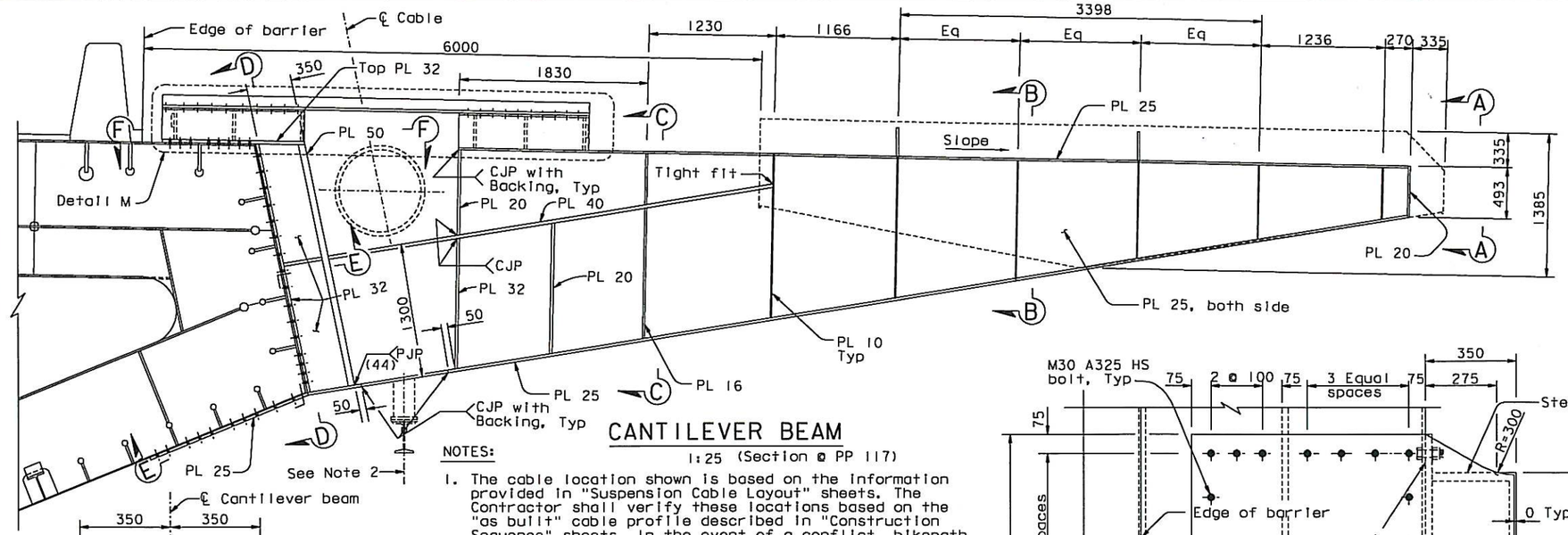
ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

Rev. Date: 5-18-98

FILE => I:\bb\04-012001\sas\contract plans and cco\cco\cco#22851\1-original 08-17-12\dgn\agbwd10.dgn

USERNAME => DWinrow DATE PLOTTED => 17 AUG 2012 TIME PLOTTED => 13:42:53

100 % PS&E

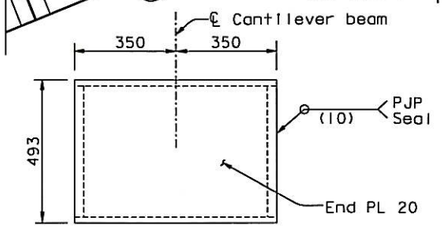


CANTILEVER BEAM

1:25 (Section @ PP 117)

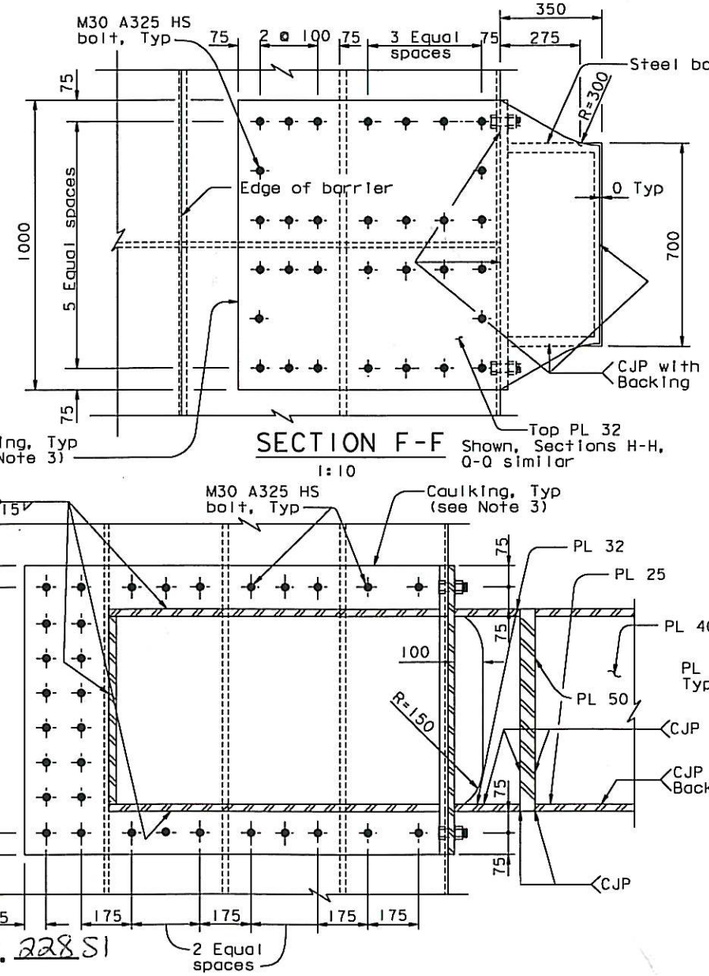
NOTES:

1. The cable location shown is based on the information provided in "Suspension Cable Layout" sheets. The Contractor shall verify these locations based on the "as built" cable profile described in "Construction Sequence" sheets. In the event of a conflict, bikepath bracket details may be revised and submitted to the Engineer for review and approval.
2. For location and details of traveler rail support, see "Traveler Rail Details No.13" sheet.
3. Caulking shall be provided along all edges of bolted connection between bikepath cantilever beam and box girder.
4. For elastomeric sleeve detail, see "Bikepath Details No.4A" sheet.
5. For Detail M, see "Bikepath Details No.13A" sheet.
6. For leveling shim details at stud locations, see "Bikepath Details No.23" sheet.



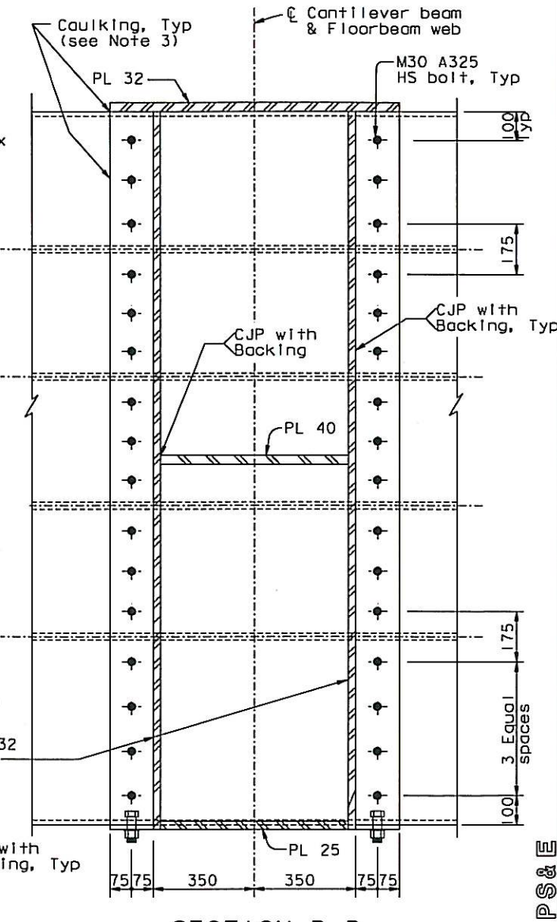
VIEW A-A

1:10



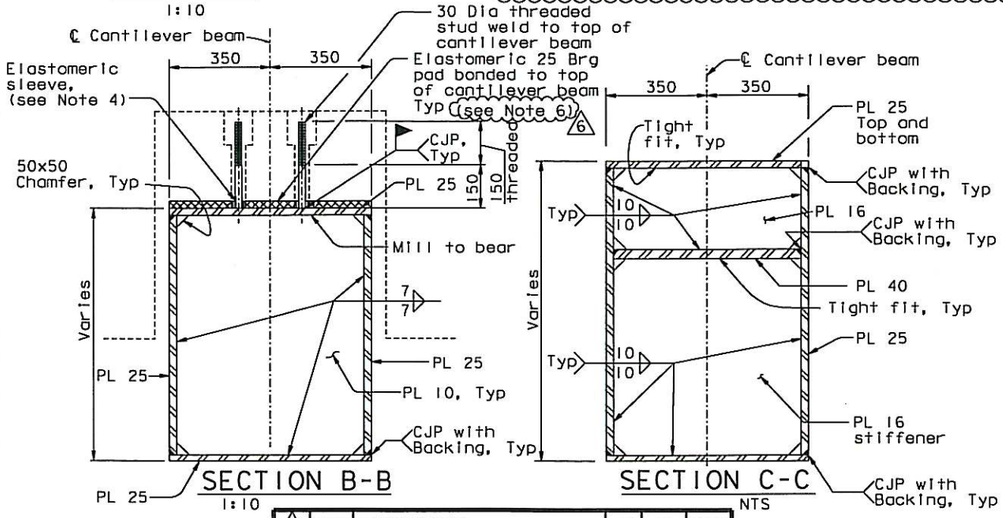
SECTION F-F

1:10 Shown, Sections H-H, Q-Q similar



SECTION D-D

1:10



SECTION B-B

1:10

SECTION C-C

NTS

SECTION E-E

1:10

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
6	08/17/12	BIKEPATH LEVELING	AB	TH	228S1
5	01/20/12	BIKEPATH CANTILEVER BEAM MODIFICATIONS	DT	TH	233
4	01/25/11	BIKEPATH STUD ISSUE	TH	CC	186
3	08/20/10	BIKEPATH DETAILS	TH	CC	99
2	07/07/08	CAULKING	AS	TH	66
1	07/20/07	BIKEPATH BRACKETS	GB	TH	33

REVISIONS

CONTRACT CHANGE ORDER NO. 228S1
SHEET 10 OF 14

REQUESTS FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE

DESIGN	BY T. Ho	CHECKED T. McMeans	
DETAILS	BY R. Xu	CHECKED P. Ritchie	
QUANTITIES	BY C. Bernardo	CHECKED S. Shi	

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

R. Manzanarez
PROJECT ENGINEER

R. Vallzadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 08/17/12

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): 05/20/01 | 01/20/02 | 12/19/02 | 11/13/03

BRIDGE NO. 34-0006L/R
KILOMETER POST 13.2/13.9
SHEET 418R6
OF

SAN FRANCISCO OAKLAND BAY BRIDGE
EAST SPAN SEISMIC SAFETY PROJECT
SELF-ANCHORED SUSPENSION BRIDGE (SUPERSTRUCTURE & TOWER)

BIKEPATH DETAILS NO. 11

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	835R6	1204

Caltrans Metric

REGISTERED ENGINEER - CIVIL
Tien Hung Ho No. C 43990 Exp. 6/30/13 CIVIL
12-6-04
PLANS APPROVAL DATE

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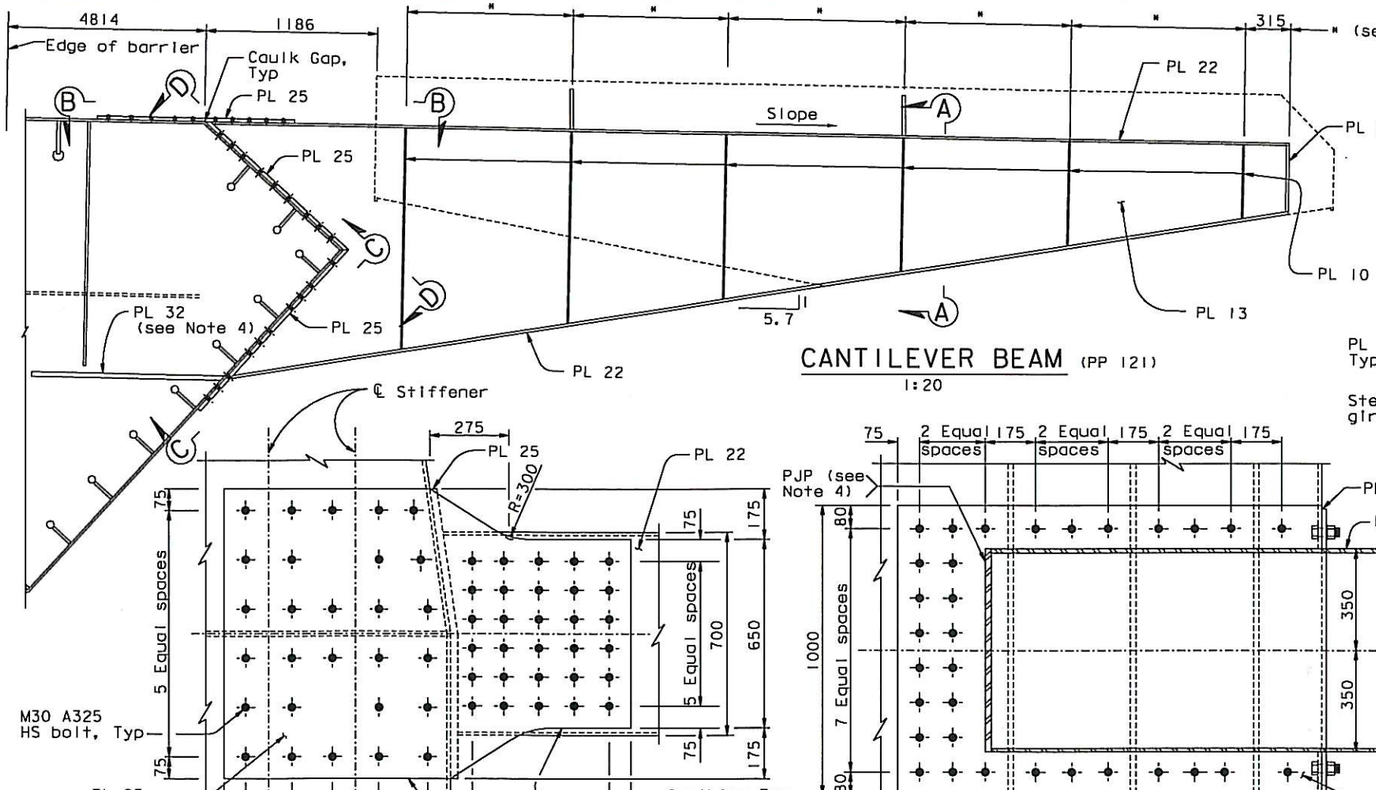

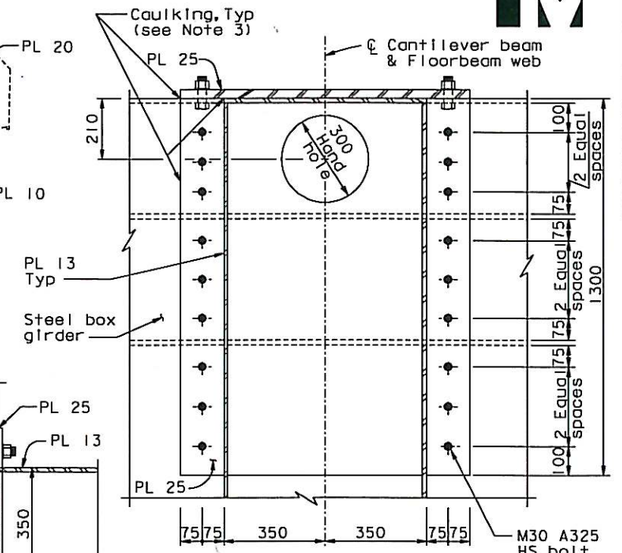

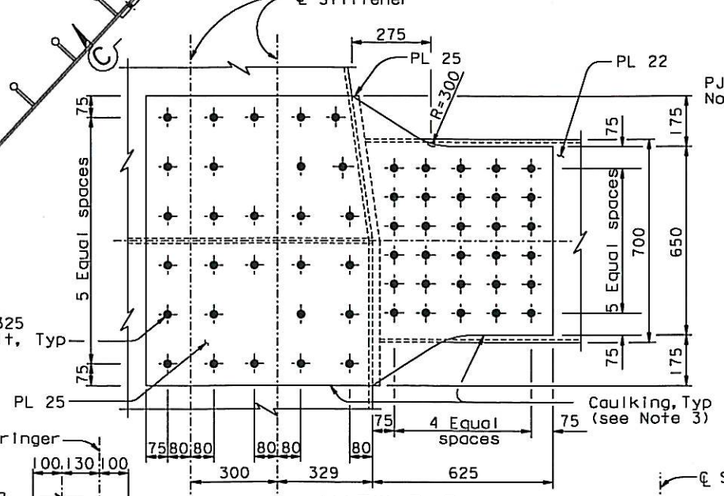

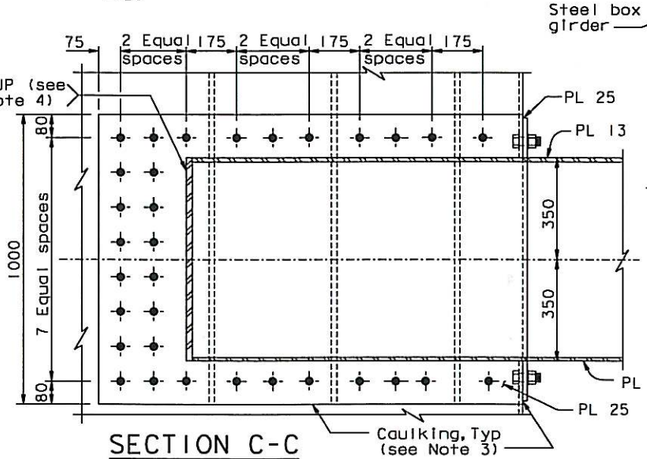

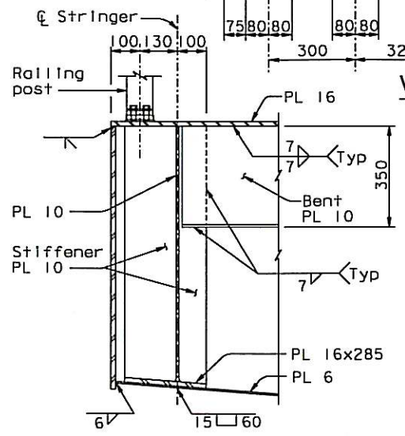

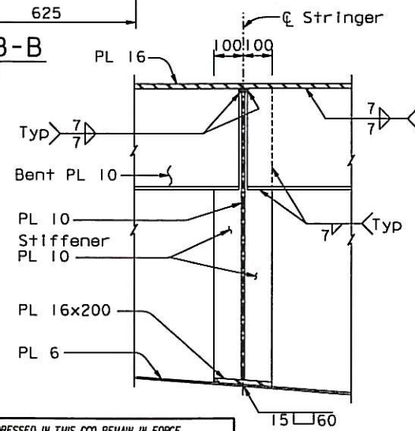

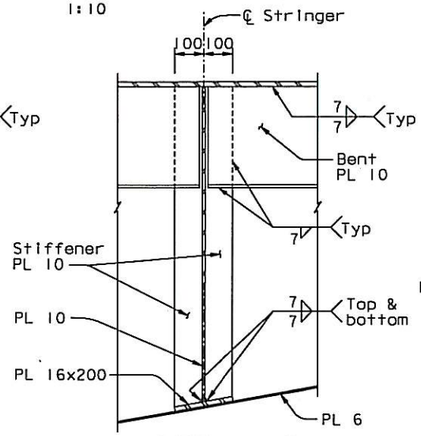

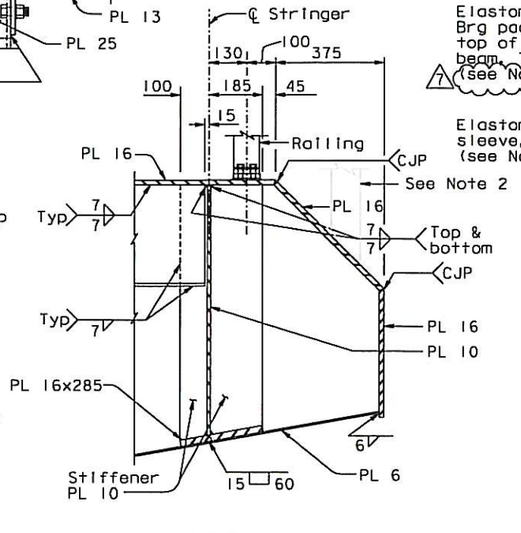

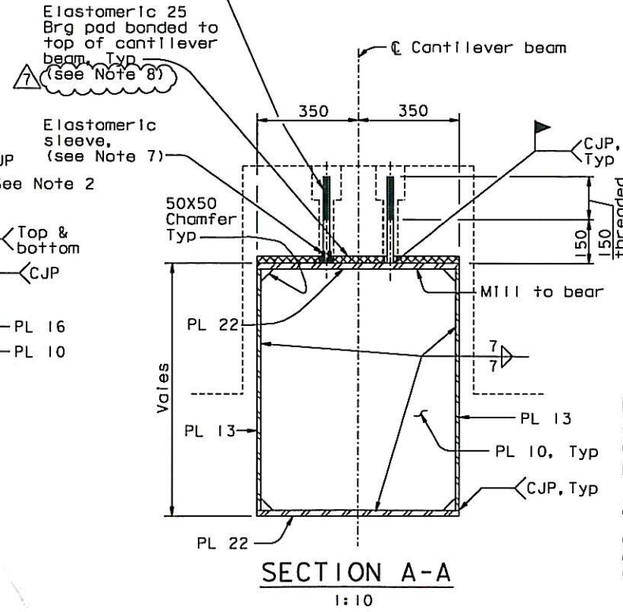

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	836R7	1204

REGISTERED ENGINEER - CIVIL

12-6-04
PLANS APPROVAL DATE

Tien Hung Ho
No. C 43990
Exp. 06/30/13
CIVIL
STATE OF CALIFORNIA

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NOTES:

1. Stiffener plate spacing to match bikepath stringer spacing, see "Bikepath Framing Details No.5" sheet.
2. For call box support locations and details, see "Road Plans".
3. Caulking shall be provided along all edges of bolted connection between bikepath cantilever beam and box girder.
4. For bikepath bracket stiffener, see Note 6 on "Floorbeam At East Transition No.4" sheet.
5. Note deleted.
6. Note deleted.
7. For elastomeric sleeve detail, see "Bikepath Details No.4A" sheet.
8. For leveling shim details at stud locations, see "Bikepath Details No.23" sheet.

REQUESTS FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE

MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
7	08/17/12	BIKEPATH LEVELING	AB	TH	228S1
6	08/10/11	BIKEPATH PAD REVISIONS	GB	TH	211
5	01/25/11	BIKEPATH STUD ISSUE	TH	CC	186
4	09/24/10	BIKEPATH DETAILS	TH	CC	99
3	08/20/10	BIKEPATH DETAILS	TH	CC	99
2	07/07/08	CAULKING	AS	TH	66
1	07/20/07	BIKEPATH BRACKETS	GB	TH	33

REVISIONS

CONTRACT CHANGE ORDER NO. 228 S1
SHEET 11 OF 14

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

R. Vallizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 08/17/12

DESIGN	BY T. Ho	CHECKED T. McMeans	
DETAILS	BY R. Xu	CHECKED P. Ritchie	
QUANTITIES	BY C. Bernardo	CHECKED S. Shi	

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)

BIKEPATH DETAILS NO. 12

CU 04
EA 0120F1

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 05/31/01 | 01/30/02 | 01/30/02 | 12/05/02 | 11/13/03

SHEET 419R7 OF

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

Rev. Date: 5-18-98

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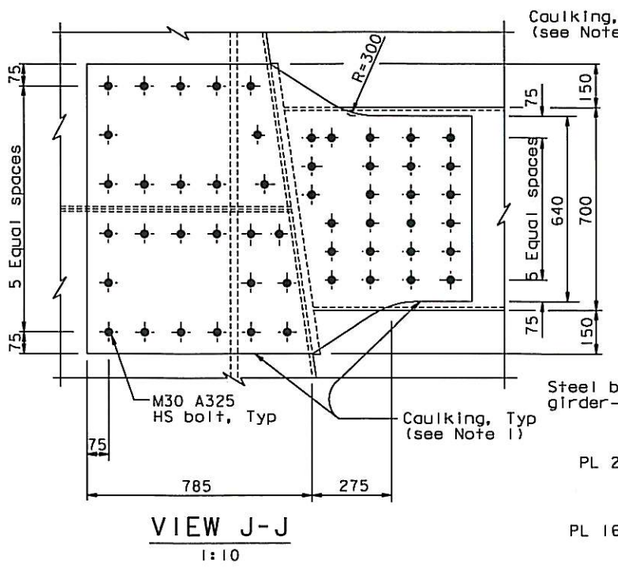
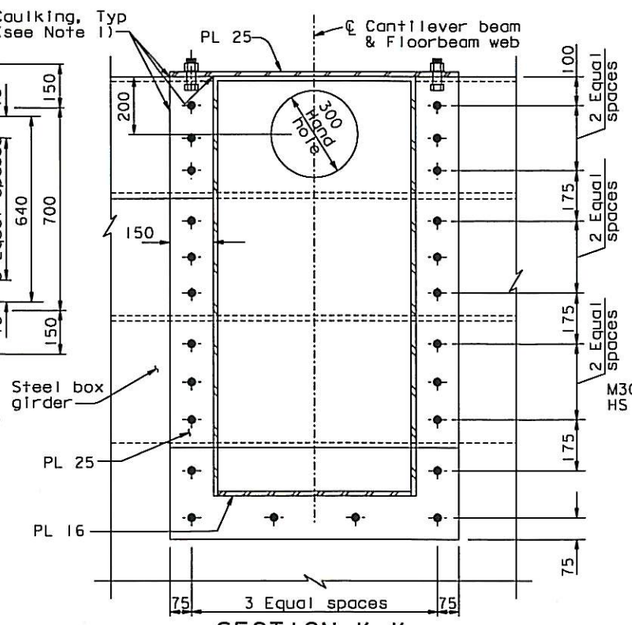
USERNAME => DMinrow



VIEW J-J
1:10



SECTION K-K
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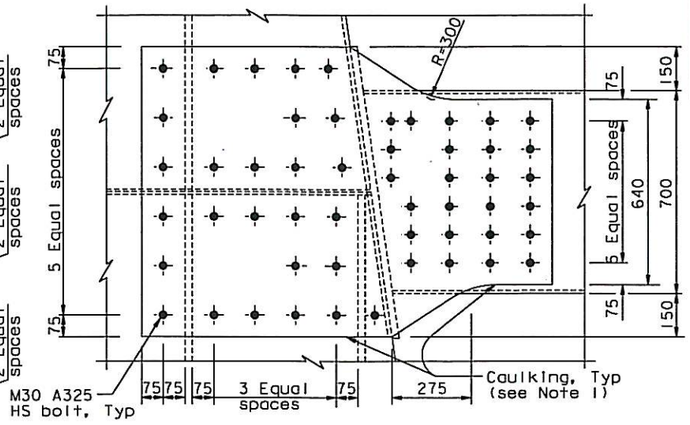
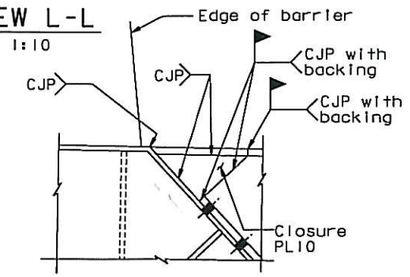
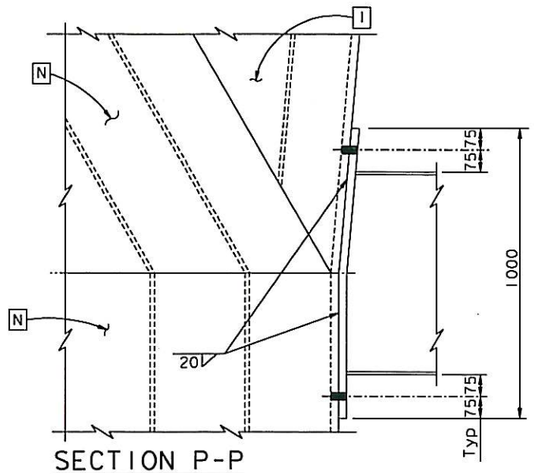


VIEW L-L
1:10



DETAIL A
1:5



SECTION P-P
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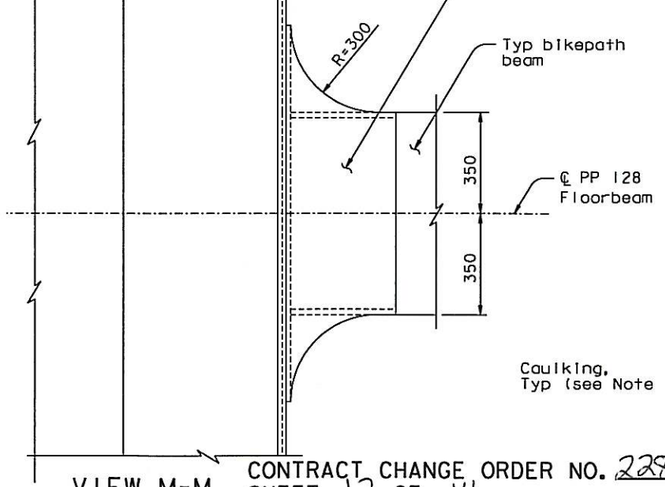
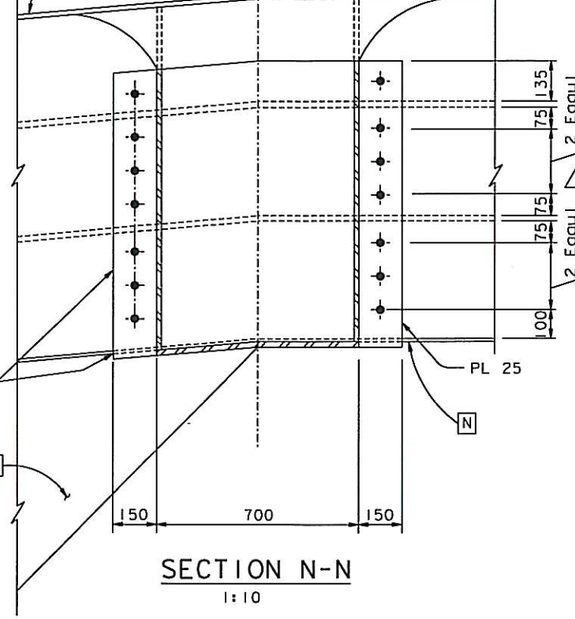
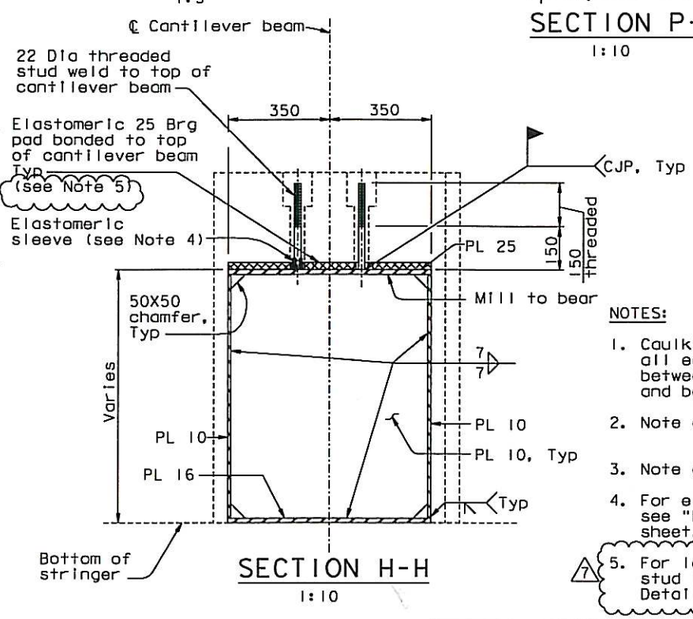


VIEW M-M
1:10



SECTION N-N
1:10



SECTION H-H
1:10

NOTES:

1. Caulking shall be provided along all edges of bolted connection between bikepath cantilever beam and box girder.
2. Note deleted.
3. Note deleted.
4. For elastomeric sleeve detail, see "Bikepath Details No. 4A" sheet.
5. For leveling shim details at stud locations, see "Bikepath Details No. 23" sheet.

CONTRACT CHANGE ORDER NO. 228SI I
SHEET 12 OF 14

REQUESTS FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE

MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
		REVISIONS			
7	08/17/12	BIKEPATH LEVELING	AB	TH	228SI
6	08/10/11	BIKEPATH PAD REVISIONS	GB	TH	211
5	01/25/11	BIKEPATH STUD ISSUE	TH	CC	186
4	08/20/10	BIKEPATH DETAILS	TH	CC	99
3	09/25/09	BIKEPATH DETAILS	TH	HT	99
2	07/07/08	CAULKING	AS	TH	66
1	07/20/07	BIKEPATH BRACKETS	GB	TH	33

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	838R7	1204

Caltrans Metric

REGISTERED ENGINEER - CIVIL
Tien Hung Ho
No. C 43990
Exp. 6/30/13
CIVIL
STATE OF CALIFORNIA
12-6-04
PLANS APPROVAL DATE

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R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
Reza Valizadeh / Vang Toan / Y. Liu
SIGN OFF DATE 08/17/12

	BY	CHECKED
DESIGN	T. Ho	T. McMeans
DETAILS	R. Xu	P. Ritchie
QUANTITIES	C. Bernardo	S. Shi

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)

BIKEPATH DETAILS NO. 14

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)												SHEET	OF
05/31/01	04/09/12	07/31/12	12/19/12	11/13/05								421R7	

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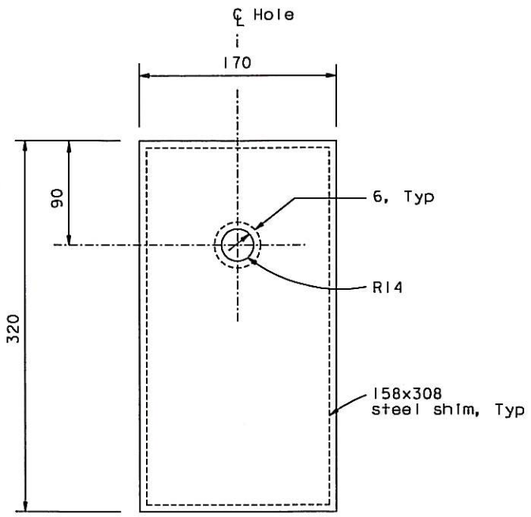
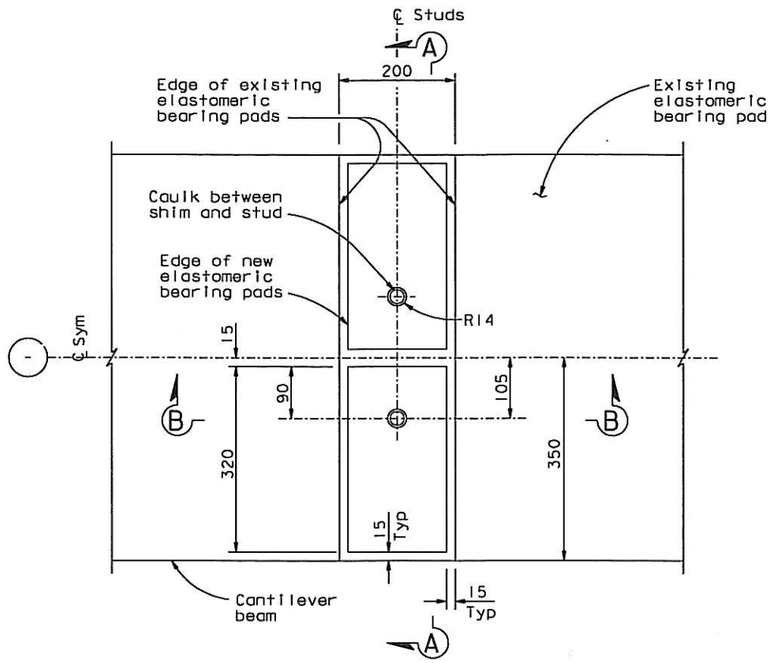
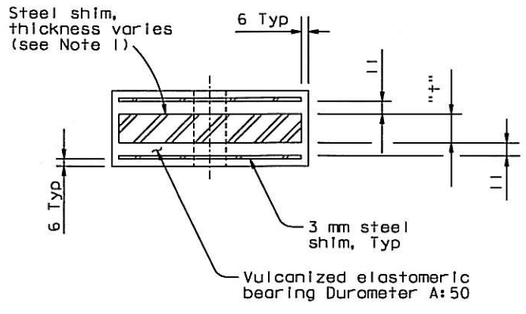


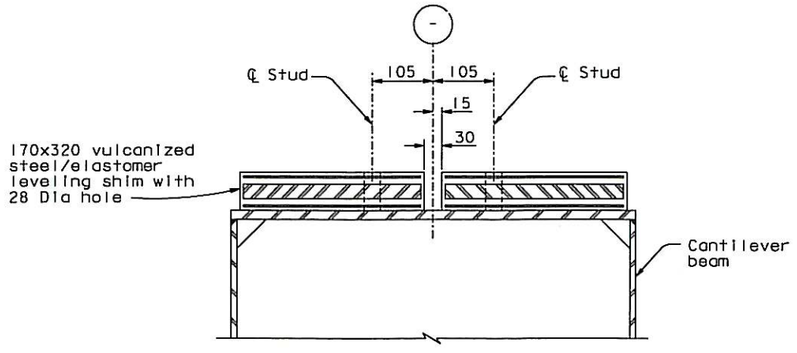
LEVELING SHIM PLAN
1:2.5



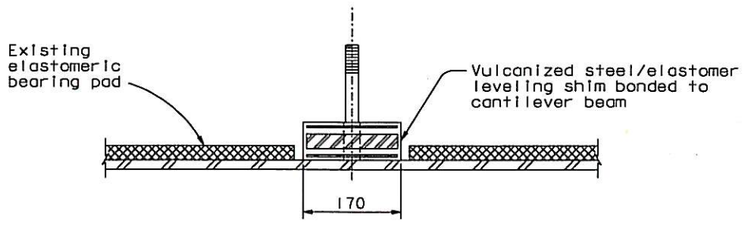
SHIM DETAIL (Bikepath Panel Not Shown)
1:5



LEVELING SHIM ELEVATION
1:2.5



SECTION A-A (Bikepath Panel Not Shown)
1:5



SECTION B-B (Bikepath Panel Not Shown)
1:5

NOTES:

1. For steel shim thickness "t", see "Bikepath Details No.24" sheet.

CONTRACT CHANGE ORDER NO. 22851
SHEET 13 OF 14

REQUESTS FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	840S7	1204

REGISTERED ENGINEER - CIVIL
Tien Hung Ho
No. C 43990
Exp. 06/30/13
CIVIL
08-17-12
PLANS APPROVAL DATE

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

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MARK	DATE	REVISIONS	BY	CH'D	CCO#
6	08/17/12	BIKEPATH LEVELING	AB	TH	22851

DESIGN BY A. Baumberger CHECKED T. Ho
DETAILS BY A. Baumberger CHECKED H. Tazir
QUANTITIES BY A. Baumberger CHECKED H. Tazir

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)

BIKEPATH DETAILS NO. 23

R. Vaziadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 08/17/12

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): 08/17/12

SHEET 423S7 OF

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SHIM THICKNESS "t" (mm)																					
	HINGE K - PP5.5		PP5.5 - PP7.5 *		PP7.5 - PP9		PP9 - PP11		PP11 - PP13		PP13 - PP15		PP15 - PP17		PP17 - PP19		PP19 - PP21		PP21 - PP23		PP23 - PP25	
	W	E	W	E	W	E	W	E	W	E	W	E	W	E	W	E	W	E	W	E	W	E
N	(See Note 1)						10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
S							23	39	32	32	30	30	28	28	26	29	27	27	29	29	31	37

	PP25 - PP27		PP27 - PP29		PP29 - PP31		PP31 - PP33		PP33 - PP35		PP35 - PP37		PP37 - PP39		PP39 - PP41		PP41 - PP43		PP43 - PP45		PP45 - PP47	
	W	E	W	E	W	E	W	E	W	E	W	E	W	E	W	E	W	E	W	E	W	E
N	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
S	37	33	35	35	41	28	31	23	23	27	31	23	24	28	29	26	33	23	23	23	23	23

	PP47 - PP49		PP49 - PP51		PP51 - PP53		PP53 - PP55		PP55 - PP57		PP57 - PP59		PP59 - PP61		PP61 - PP63		PP63 - PP65		PP65 - PP67		PP67 - PP69	
	W	E	W	E	W	E	W	E	W	E	W	E	W	E	W	E	W	E	W	E	W	E
N	10	10	10	10	10	10	10	10	10	10	15	15	13	13	11	11	10	10	10	10	10	10
S	23	23	23	23	28	25	28	28	23	29	32	32	33	30	28	28	26	26	24	24	23	23

	PP69 - PP71		PP71 - PP73		PP73 - PP75		PP75 - PP77		PP77 - PP79		PP79 - PP81		PP81 - PP83		PP83 - PP85		PP85 - PP87		PP87 - PP89		PP89 - PP91	
	W	E	W	E	W	E	W	E	W	E	W	E	W	E	W	E	W	E	W	E	W	E
N	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
S	23	23	23	23	23	23	23	23	23	23	23	26	23	23	23	23	23	23	23	23	23	23

	PP91 - PP93		PP93 - PP95		PP95 - PP97		PP97 - PP99		PP99 - PP101		PP101 - PP103		PP103 - PP105		PP105 - PP107		PP107 - PP109		PP109 - PP111		PP111 - PP113	
	W	E	W	E	W	E	W	E	W	E	W	E	W	E	W	E	W	E	W	E	W	E
N	10	10	10	10	10	10	10	10	10	10	10	10	(See Note 1)									
S	23	23	23	23	23	23	23	23	23	23	23	23										

	PP113 - PP115		PP115 - PP117		PP117 - PP121 **		PP121 - PP123		PP123 - PP125		PP125 - PP127		PP127 - HINGE A	
	W	E	W	E	W	E	W	E	W	E	W	E	W	E
N	(See Note 1)													
S														

* Bikepath panel at West Belvedere

** Bikepath panel at East Belvedere

NOTES:

1. Shim thickness at these locations to be provided by the Engineer after field measurements of panels are completed.

CONTRACT CHANGE ORDER NO. 228 S1
SHEET 14 OF 14

REQUESTS FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	840S8	1204

REGISTERED ENGINEER - CIVIL

Tien Hung Ho
No. C 43990
Exp. 06/30/13
CIVIL
STATE OF CALIFORNIA

08-17-12
PLANS APPROVAL DATE

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R. Vaziadeh/V. Toan/Y. L./W. L./F. C.
DESIGN OVERSIGHT
SIGN OFF DATE 08/17/12

MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
6	08/17/12	BIKEPATH LEVELING	AB	TH	228S1

REVISIONS

DESIGN	BY A. Baumberger	CHECKED T. Ho
DETAILS	BY A. Baumberger	CHECKED H. Tazir
QUANTITIES	BY A. Baumberger	CHECKED H. Tazir

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)

BIKEPATH DETAILS NO. 24

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)
08/17/12

SHEET 423S8 OF

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