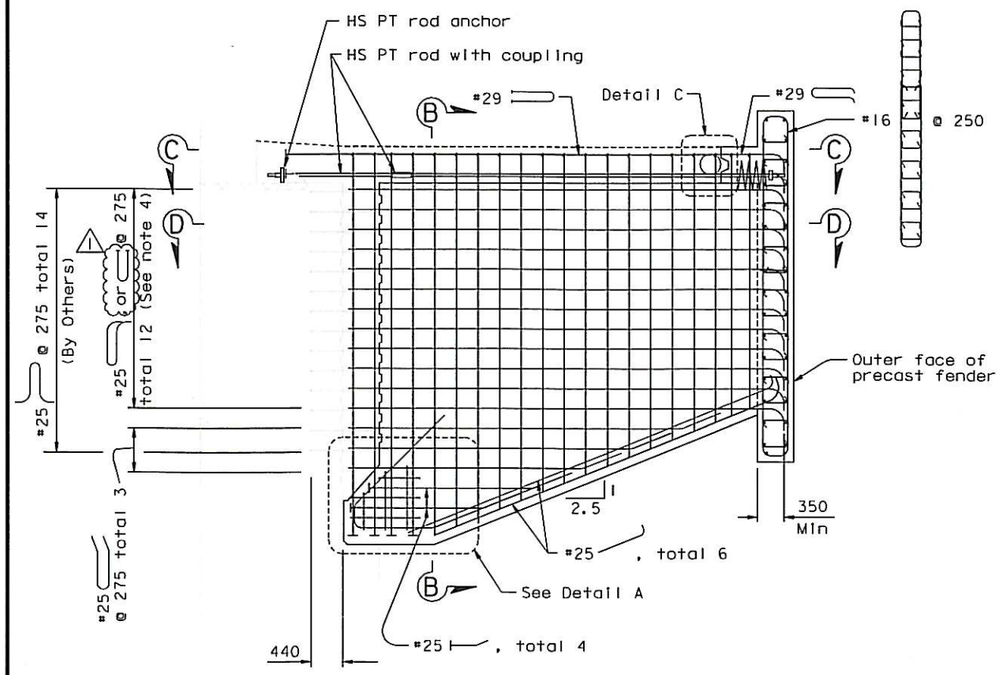

SECTION A-A
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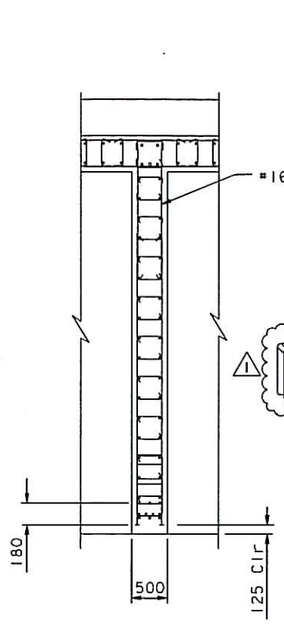

SECTION B-B
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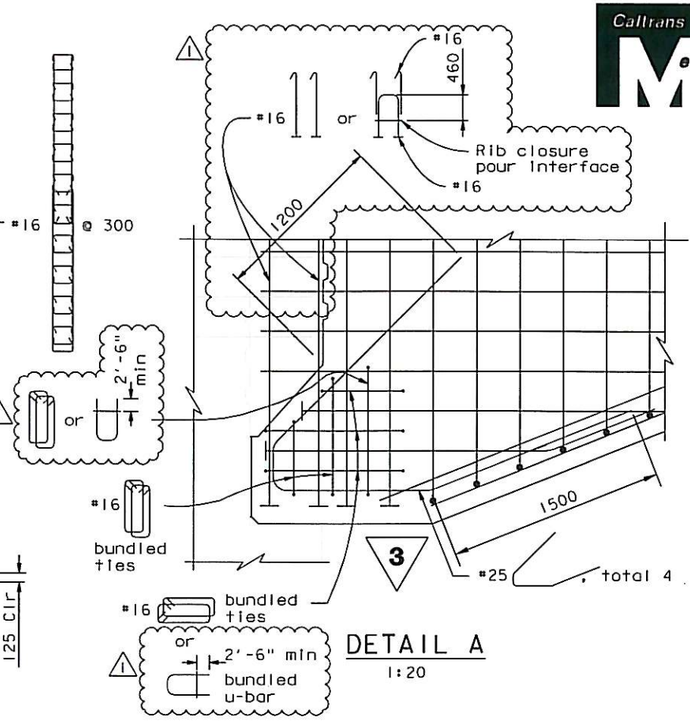
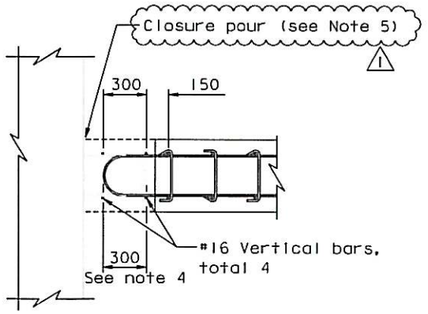
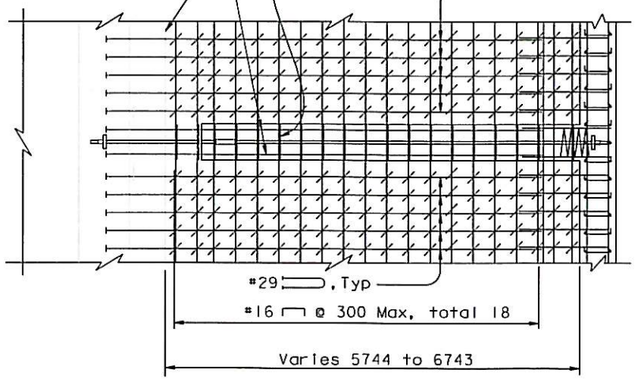


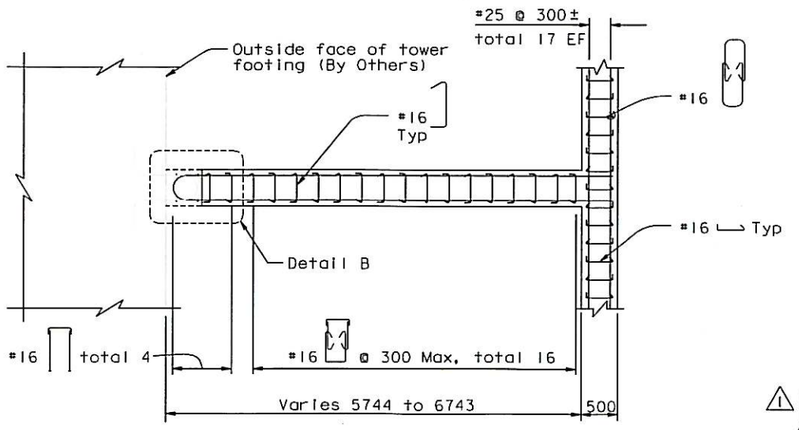
DETAIL A
1:20



DETAIL B (Detail C similar)
1:20



SECTION C-C
1:40



SECTION D-D
1:40

LEGEND:

⊢ Indicates headed bar reinforcement

NOTES:

1. Minimum concrete cover to the main reinforcing shall be 75 mm unless noted otherwise.
2. All reinforcement shown on this sheet shall be epoxy coated.
3. Reinforcement in the footing is shown for information only, and is By Others.
4. Before fabricating and placing the loop reinforcement in the precast fender ribs, the Contractor shall field-verify the as-built locations of the reinforcing loops in the tower footing to ensure the horizontal overlapping length between the existing and new loop reinforcement is at the specified value.
5. The closure pour shall be widened as necessary at the precast rib/tower footing interface to provide adequate cover for the as-built loop reinforcing. At the corner of the tower footing, the closure pour may be continuous between ribs.

CONTRACT CHANGE ORDER NO. 289
SHEET 4 OF 6

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	991R1	1204

REGISTERED ENGINEER - CIVIL
A. L. Ely
12-6-04
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.
REGISTERED PROFESSIONAL ENGINEER — A. L. Ely, No. C 18880, Exp. 6/30/13, CIVIL, STATE OF CALIFORNIA

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

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R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 05/16/13

MARK	DATE	REVISIONS	BY	CH'D	CCO#
1	05/16/13	TOWER FENDER CLOSURE	MB	AE	289

	BY	CHECKED
DESIGN	E. Nichol	M. Harris
DETAILS	E. Nichol	M. Harris
QUANTITIES	E. Holloway	D. Harrison

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)

TOWER FENDER DETAILS NO. 3

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): 05/31/96 09/30/96 05/31/01 04/30/02 07/31/02 12/31/02 05/31/04 09/30/04 10/31/05

SHEET 574R1 OF

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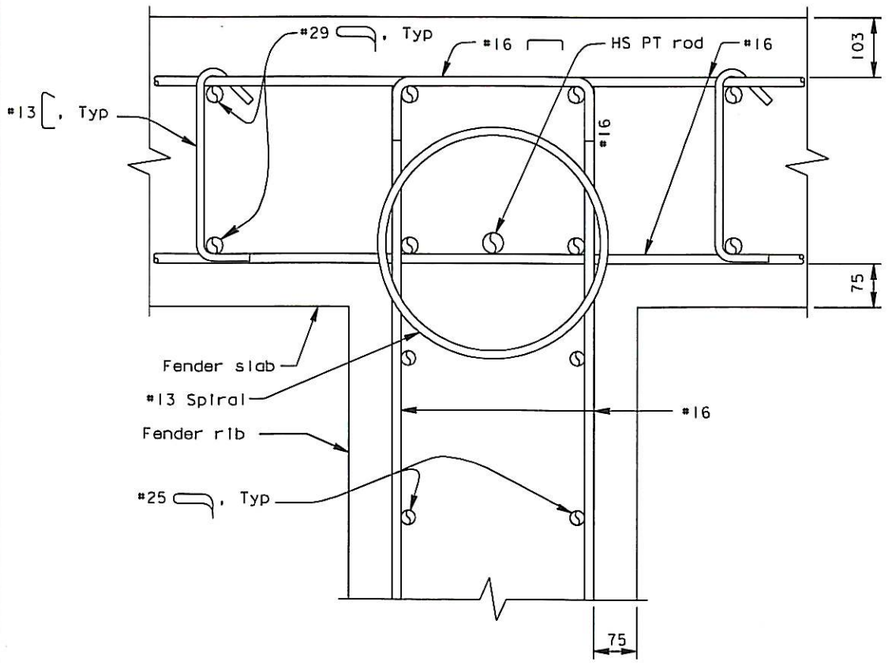

SECTION A-A
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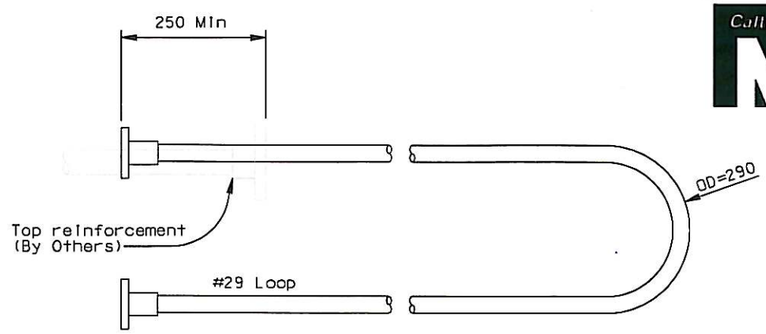
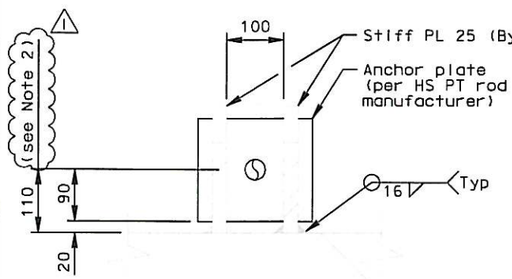
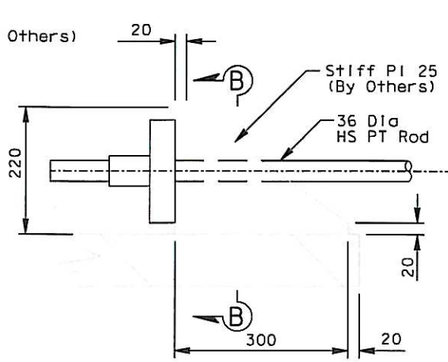


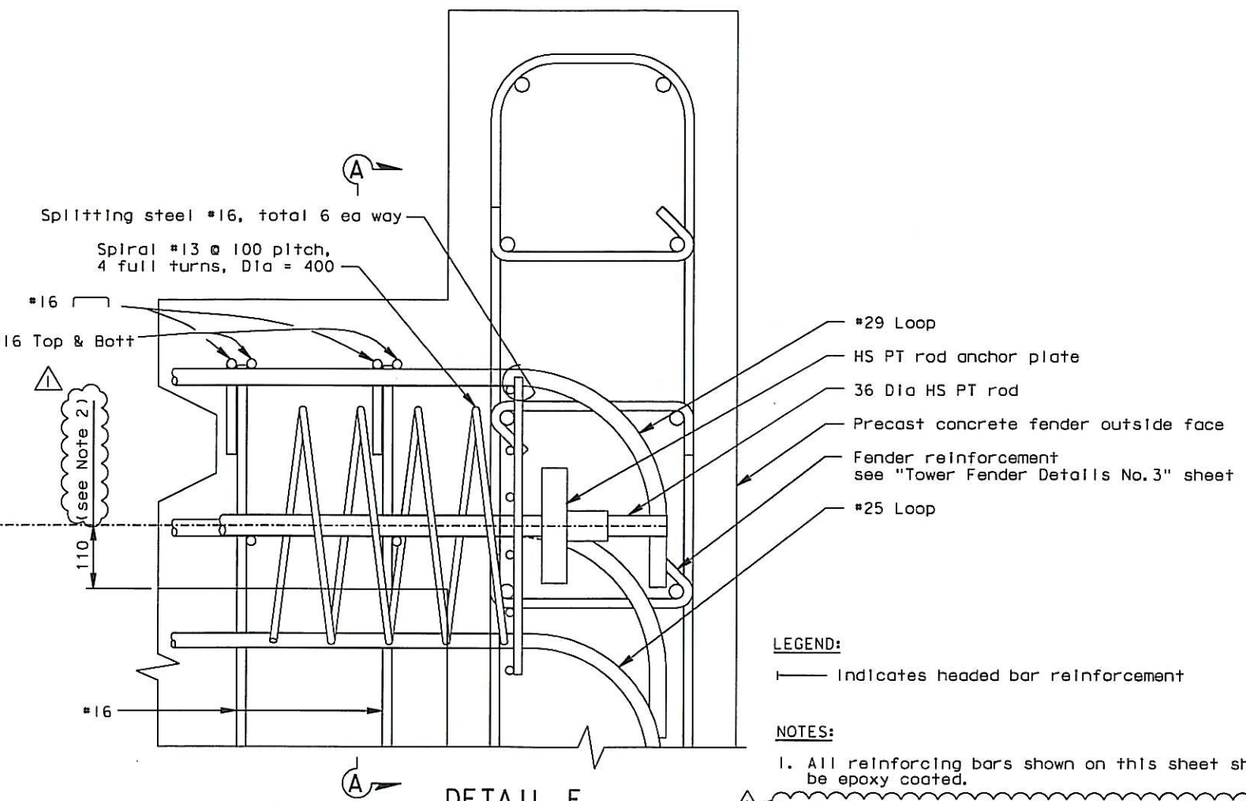
DETAIL C (#29 Headed Loop Reinforcing in top slab)
1:10



SECTION B-B
1:10



DETAIL D
1:10



DETAIL E
1:10

LEGEND:

⊢ Indicates headed bar reinforcement

NOTES:

1. All reinforcing bars shown on this sheet shall be epoxy coated.
2. At the Contractor's option, HS PT rod may be relocated +40/-0 to avoid reinforcing bars.

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	993RI	1204

Caltrans Metric

REGISTERED ENGINEER - CIVIL

12-6-04
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Gerard T. Haulahan No. C 63167 Exp. 06/30/14 CIVIL STATE OF CALIFORNIA

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CONTRACT CHANGE ORDER NO. 289
SHEET 5 OF 6

REQUESTS FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
		REVISIONS			
1	05/16/13	TOWER FENDER CLOSURE	MB	GH	289

DESIGN OVERSIGHT: R. Vallzadeh/V. Toan/Y.L./W.L./F.C.
SIGN OFF DATE 05/16/13

	BY	CHECKED
DESIGN	M. Benolt	G. Haulahan
DETAILS	M. Benolt	G. Haulahan
QUANTITIES	M. Benolt	G. Haulahan

PREPARED FOR THE STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

R. Manzanarez
PROJECT ENGINEER

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

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

TOWER FENDER 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): 05/06/04 10/13/05

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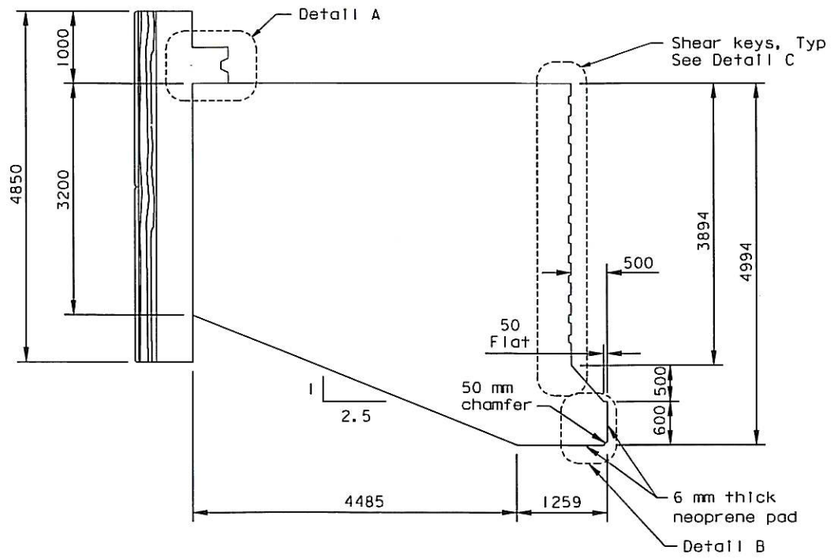
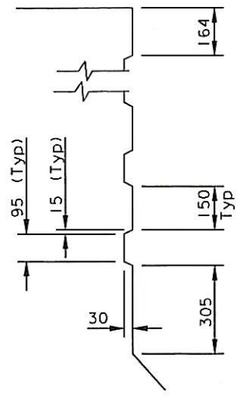
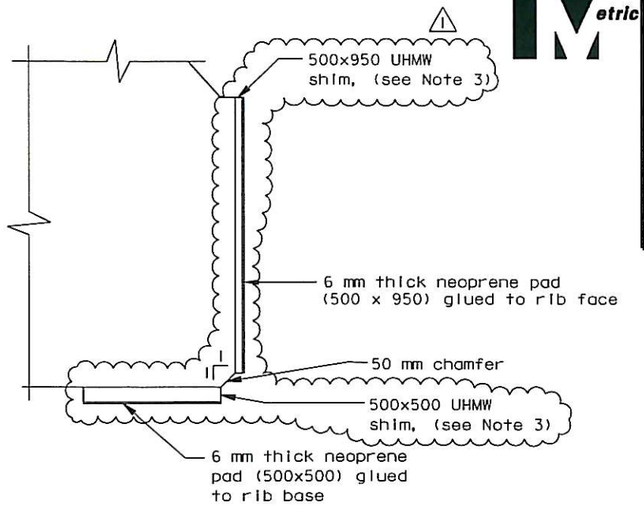


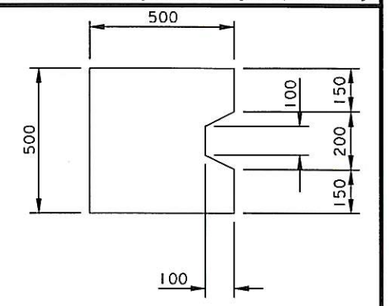
SECTION A-A TYPE 1, 2, 3, 4 (Typical 38 places)
1:40



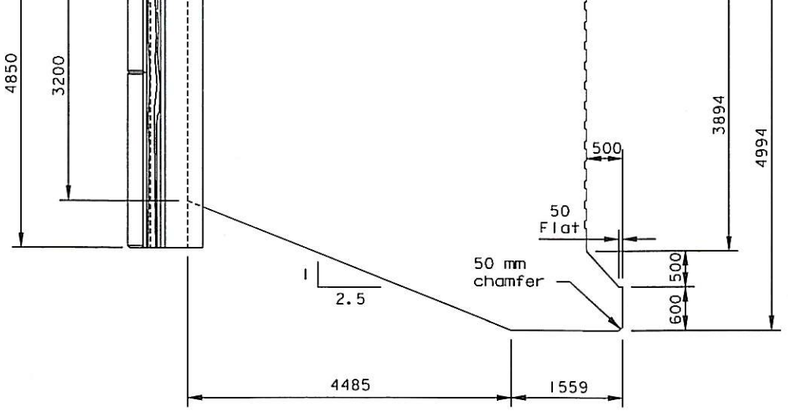
DETAIL C (Shear Keys)
1:10



DETAIL B (Neoprene pads)
1:10



DETAIL A (Keyed beam)
1:10



SECTION B-B TYPE 3, 4 (Typical 4 places)
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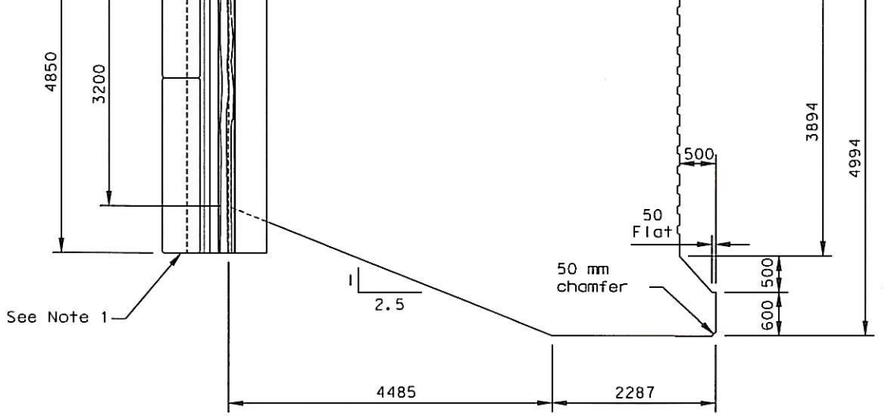
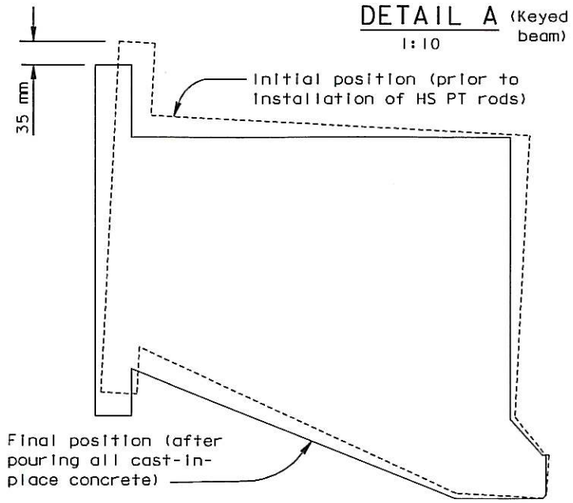


SECTION C-C TYPE 3, 4 (Typical 4 places)
1:40



CAMBER OF FENDER RIBS
NTS

NOTES:

1. For walers and fender panel facing, see "Fender Panel Details" sheet.
2. The Contractor may vary rib depth -50/+0 and rib length may vary -25/+0 to accommodate as-built conditions.
3. UHMW shim shall have varying thickness to accommodate as-built conditions.

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	998R1	1204

Caltrans Metric

REGISTERED ENGINEER - CIVIL
Gerard T. Houlahan
12-6-04
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Gerard T. Houlahan — No. C 63167 — Exp. 06/30/14 — CIVIL — STATE OF CALIFORNIA

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CONTRACT CHANGE ORDER NO. 289
SHEET 12 OF 12

REQUESTS FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

MARK	DATE	REVISIONS	BY	CH'D	CCO#
1	05/16/13	TOWER FENDER CLOSURE	MB	GH	289

R. Vallzadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 05/16/13

	BY	CHECKED
DESIGN	M. Benoit	G. Houlahan
DETAILS	M. Benoit	G. Houlahan
QUANTITIES	M. Benoit	G. Houlahan

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)

TOWER FENDER DETAILS NO. 10

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): 05/06/04

SHEET 581R1 OF

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