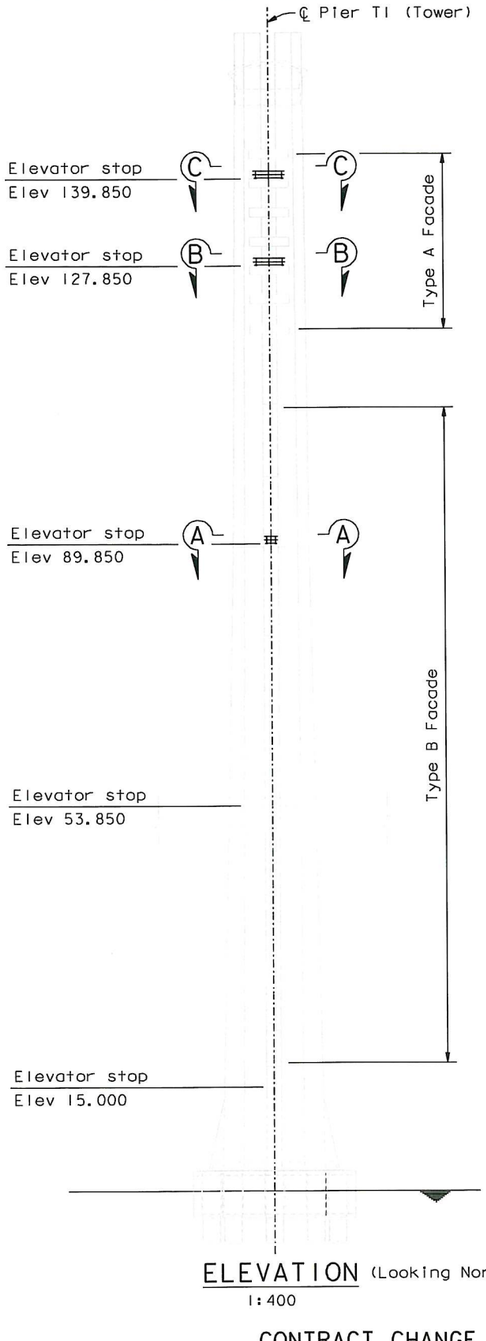
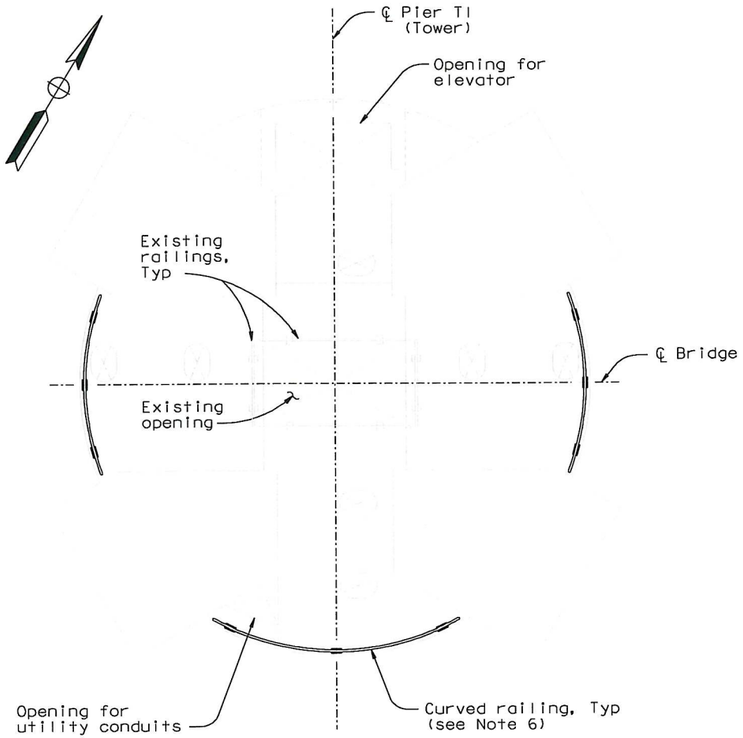


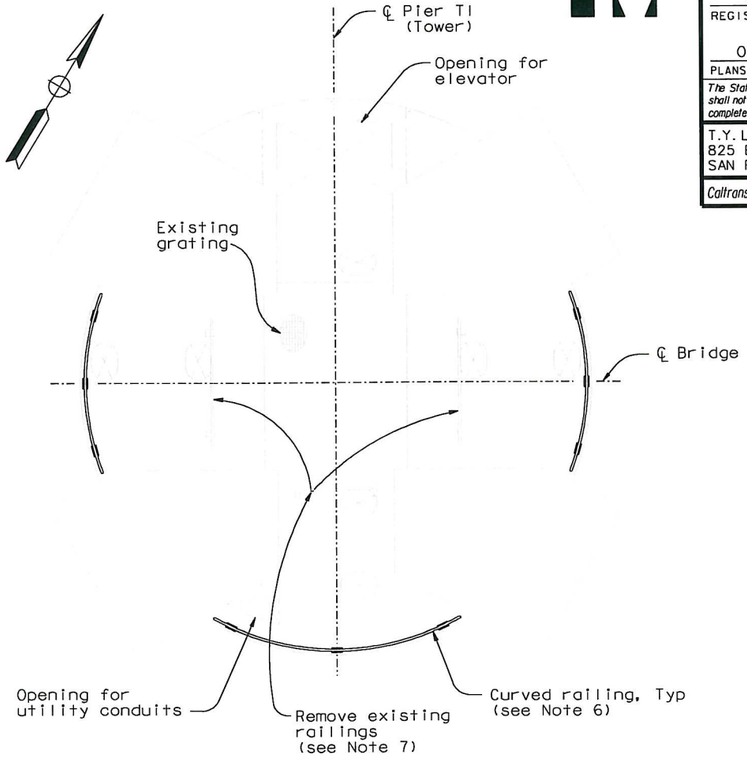
ELEVATION (Looking North)

1:400



SECTION B-B (Elev 127.850)

1:50



SECTION C-C (Elev 139.850)

1:50

NOTES:

1. Railings shall be provided for elevator stops at Elev 89.850, 127.850 and 139.850.
2. The Contractor shall field verify the clear distance between tower shafts at all railing elevations prior to fabrication.
3. All steel shall be ASTM A709M Grade 345 UNO.
4. All railings shall be ASTM A53 Grade B.
5. For Section A-A, see "Tower Strut Facade Exterior Railing Details No.2" sheet.
6. Curved railings for Type A facades are similar to straight railings for Type B facades. For straight railing details, see "Tower Strut Facade Exterior Railing Details No.2" sheet.
7. After railing removal, all bolt holes in the existing top facade plates shall be plugged using M16 HS bolts (or imperial equivalent at the Contractor's option) with washer underneath the nut and bolt head. Bolt head shall be on the outside.

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DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	93856	1204

REGISTERED ENGINEER - CIVIL

James P. Duxbury
No. C 64677
Exp. 06/30/13
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

06-10-11
PLANS APPROVAL DATE

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CONTRACT CHANGE ORDER NO. 201
SHEET 2 OF 4

REQUESTS FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 06/10/11

MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
6	06/10/11	TOWER STRUT FACADE LADDER	NV	JD	201

REVISIONS

	BY	CHECKED
DESIGN	N. Vo	J. Duxbury
DETAILS	N. Vo	J. Duxbury
QUANTITIES	N. Vo	J. Duxbury

PREPARED FOR THE STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

R. Manzanarez
PROJECT ENGINEER

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

CU 04
EA 0120F1

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

TOWER ACCESS DETAILS NO. 28

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 06/10/11

SHEET 52 OF 56

Rev. Date: 5-18-98

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

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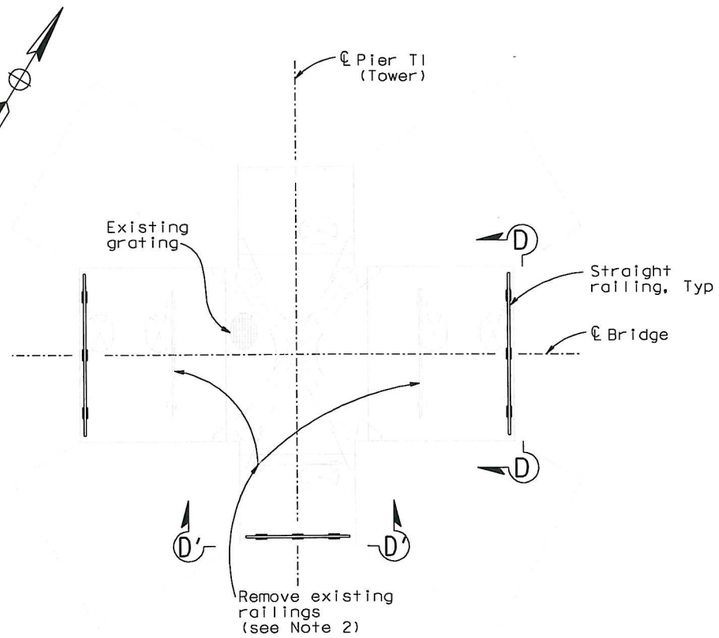
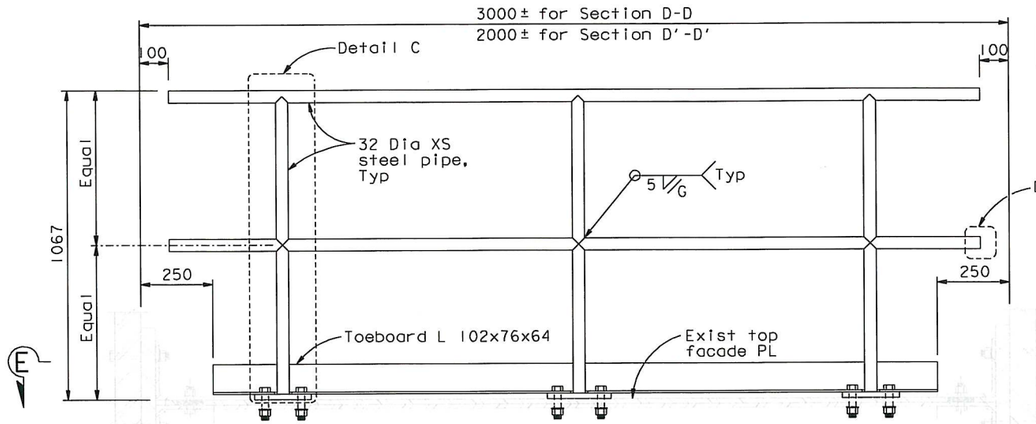


SECTION A-A
1:50



SECTION D-D (Section D'-D' similar)
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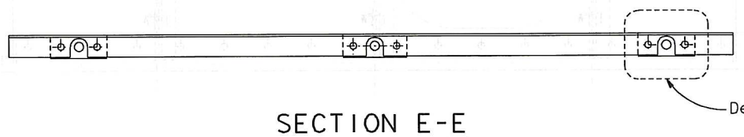
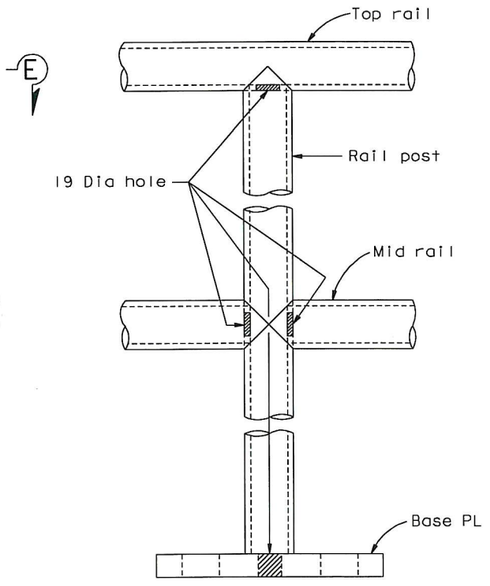
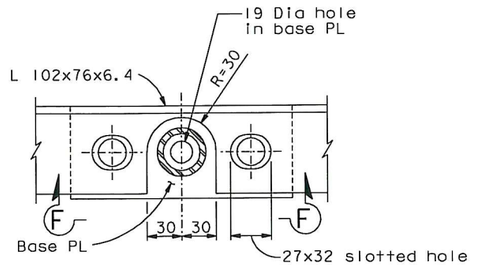


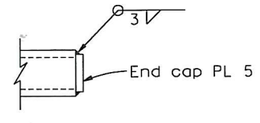
SECTION E-E
1:10



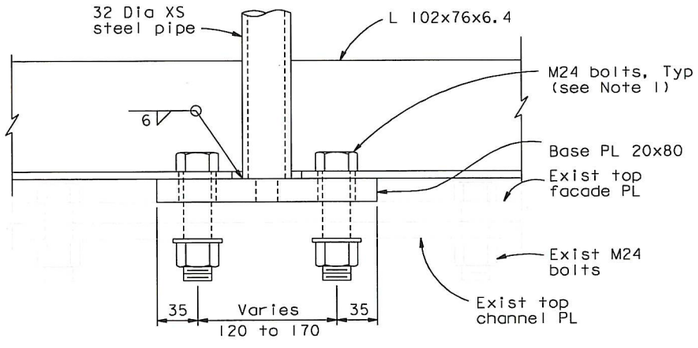
DETAIL C (Holes for galvanizing. Other details not shown for clarity)
1:2.5



DETAIL A
1:2.5



DETAIL B
1:2



SECTION F-F
1:2.5

NOTES:

1. At the Contractor's option, imperial 25 Dia A325 bolts may be used in lieu of M24 bolts.
2. After railing removal, all bolt holes in the existing top facade plates shall be plugged using M16 HS bolts (or imperial equivalent at the Contractor's option) with washer underneath the nut and bolt head. Bolt head shall be on the outside.

CONTRACT CHANGE ORDER NO. 201
SHEET 3 OF 4

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	938S7	1204

REGISTERED ENGINEER - CIVIL
James P. Duxbury
No. C 64677
Exp. 06/30/13
CIVIL
STATE OF CALIFORNIA
06-10-11
PLANS APPROVAL DATE

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MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
0	06/10/11	TOWER STRUT FACADE LADDER	NV	JD	201

REVISIONS

	BY	CHECKED
DESIGN	N. Vo	J. Duxbury
DETAILS	N. Vo	J. Duxbury
QUANTITIES	N. Vo	J. Duxbury

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 ACCESS DETAILS NO. 29

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 06/10/11

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): 06/10/11

SHEET 52 OF 1S7

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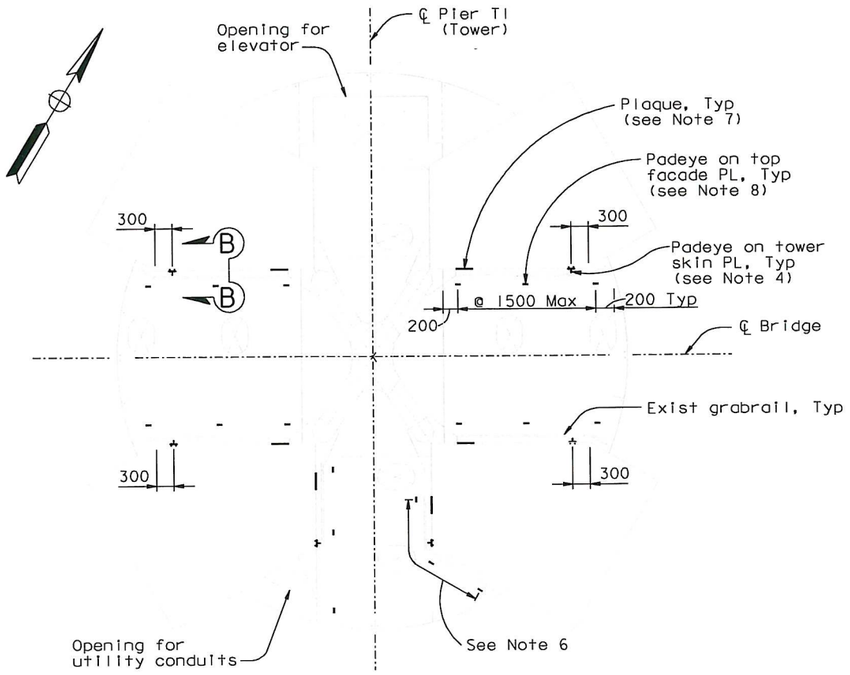
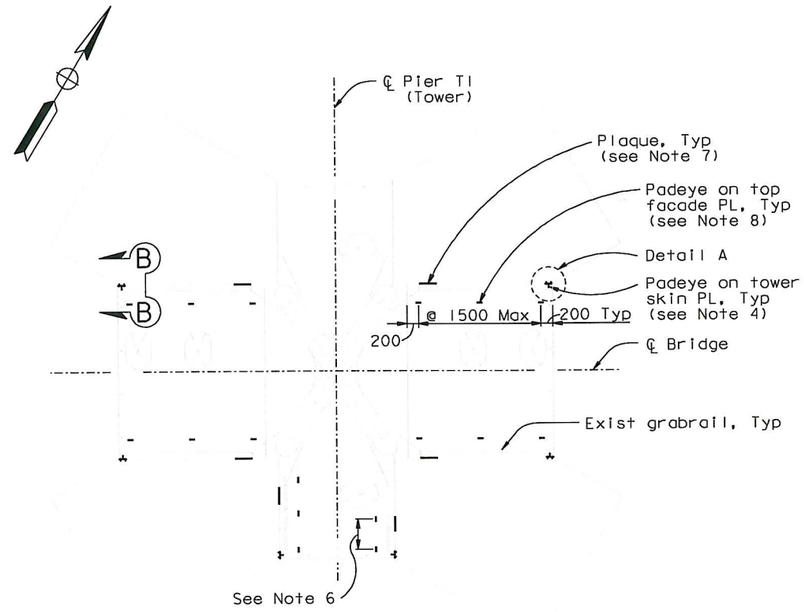


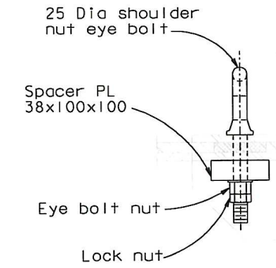
STRUT FACADE TYPE A PADEYES (All elevations)

1:50



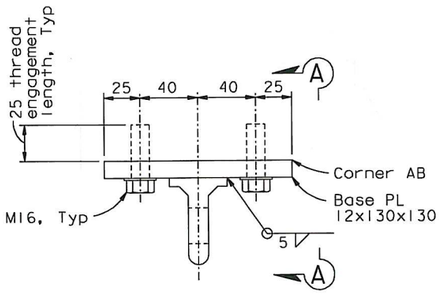
STRUT FACADE TYPE B PADEYES (All elevations)

1:50

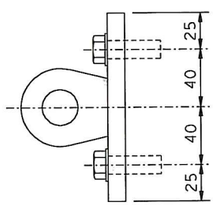


DETAIL B (Shoulder nut eye bolt detail)

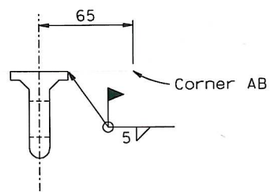
1:5



FIELD BOLTING ALTERNATE



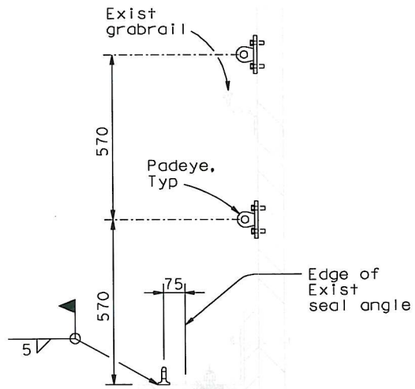
VIEW A-A



FIELD WELDING ALTERNATE

DETAIL A (See Note 5)

1:2



SECTION B-B

1:10

NOTES:

1. Padeyes shall be Crosby size No. 4 or equivalent, with a 25 mm diameter center hole.
2. All steel shall be ASTM A709M Grade 345 UNO.
3. High strength bolts shall be ASTM A325MT. At the Contractor's option, equivalent imperial A325T may be used.
4. Padeyes attached to tower skin plates shall be provided only at strut facade elevations which do not have handrails at the exterior edge of the facades.
5. At the Contractor's option, either field bolting or field welding may be used to attach the padeyes to the tower skin plates.
6. Padeyes shall be located to clear existing access openings and doors in top facade plates. Padeye spacing shall not exceed 1500 mm.
7. NOT FOR TIE-OFF

   The grabrail shall not be used as a tie-off rail. Post this information on a stainless steel plaque (200x300 minimum) above the grabrail. Plaques shall be mounted to the skin plates using 6 mm (1/4 inch) Dia stainless cap screws.
8. At the Contractor's option, in lieu of welded padeyes on top facade plate, 25 mm Dia Crosby forged shoulder nut eye bolts or equivalent may be used through the holes in the existing facade seal angles. Spacer plates shall be provided to ensure full thread engagement of the nut. Nut shall be installed snug-tight. Jam nut or lock nut shall be used to prevent bolt nut from backing off. See Detail B.

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	93858	1204

Caltrans Metric

REGISTERED ENGINEER - CIVIL

06-15-11

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — James P. Duxbury — No. C 64677 — Exp. 06/30/13 — CIVIL — STATE OF CALIFORNIA

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CONTRACT CHANGE ORDER NO. 201
SHEET 4 OF 4

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MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
		REVISIONS			
0	06/15/11	TOWER STRUT FACADE LADDER	NV	JD	201

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 06/15/11

DESIGN	BY N. Vo	CHECKED J. Duxbury
DETAILS	BY N. Vo	CHECKED J. Duxbury
QUANTITIES	BY N. Vo	CHECKED J. Duxbury

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 ACCESS DETAILS NO. 30

Rev. Date: 5-18-98

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

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EA 0120F1

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 06/15/11

SHEET 52158 OF

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