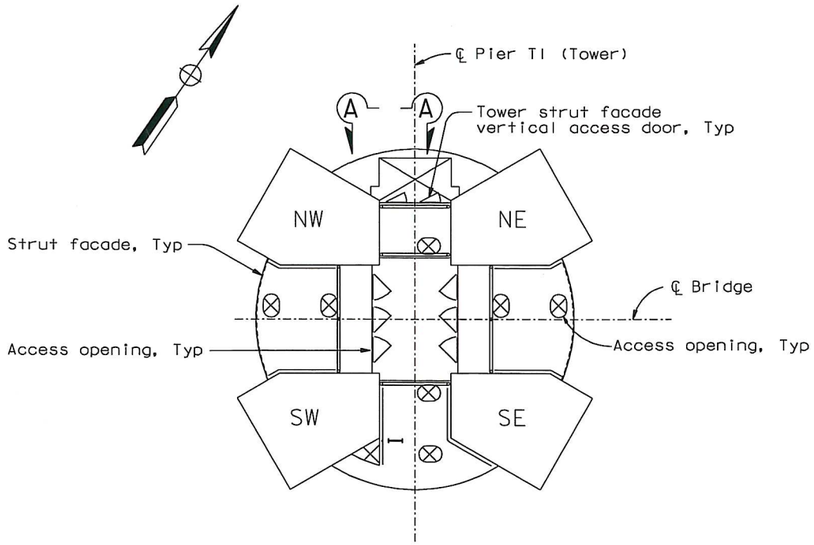
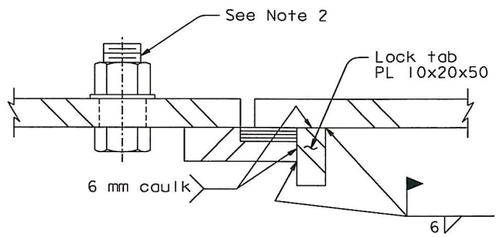


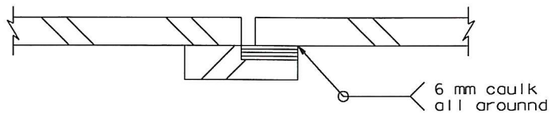
TOWER ACCESS PLAN

1:80



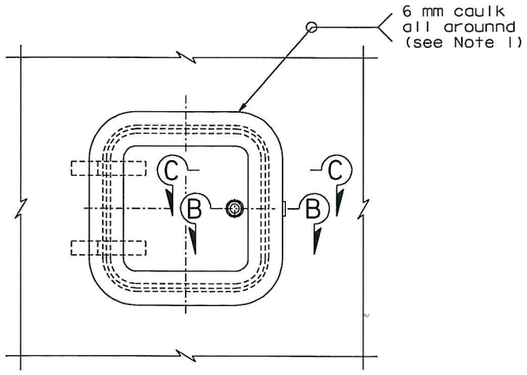
SECTION B-B

1:1



SECTION C-C

1:1



VIEW A-A

1:10

NOTES:

1. Vertical access doors shall be sealed as directed by the Engineer.
2. Existing cam lock hole shall be plugged with M16 bolt. Ream holes as required for bolt installation. Bolt head shall be on the outside.

CONTRACT CHANGE ORDER NO. 174
SHEET 3 OF 6

REQUESTS FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	92055	1204

REGISTERED ENGINEER - CIVIL

09-16-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Marwan N. Nader — No. C 054426 — Exp. 12/31/11 — CIVIL — STATE OF CALIFORNIA

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SAN FRANCISCO, CA 94111

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USERNAME => DWinrow

R. Vallzadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
Reza Vallizadeh / Vong Toan / Y. Liu
SIGN OFF DATE 09/16/11

MARK	DATE	REVISIONS	BY	CH'D	CCO#
0	09/16/11	MISCELLANEOUS ELEVATOR DETAILS	NV	MN	174

DESIGN	BY N. Vo	CHECKED M. Nader
DETAILS	BY A. Baumberger	CHECKED J. Duxbury
QUANTITIES	BY A. Baumberger	CHECKED J. Duxbury

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

R. Manzanarez
PROJECT ENGINEER

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

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. 4E

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): 09/16/11

SHEET 503S5 OF

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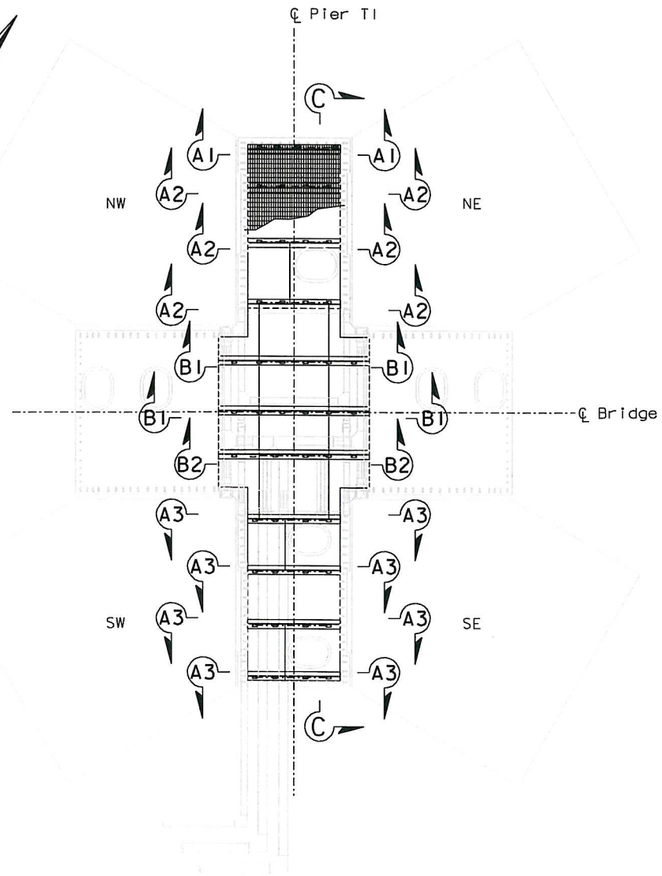
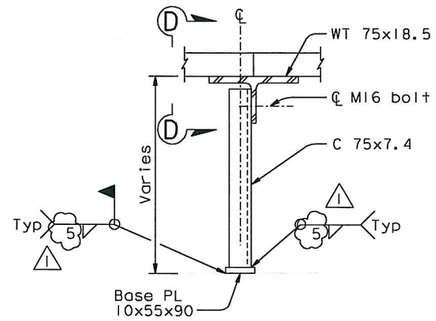
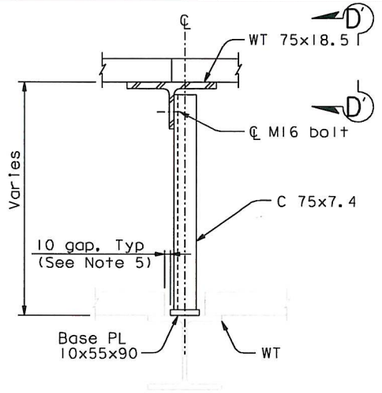




DETAIL A
1:5



DETAIL B
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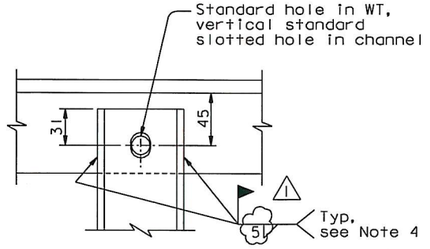
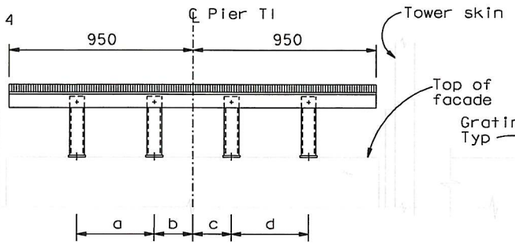


SECTION D-D (D'-D' SIMILAR)
1:2.5

	a	b	c	d
A1	650	60	300	300
A2	400	200	200	400
A3	400	200	325	350



SECTION A-A
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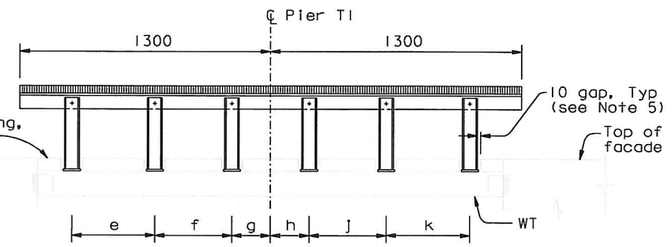
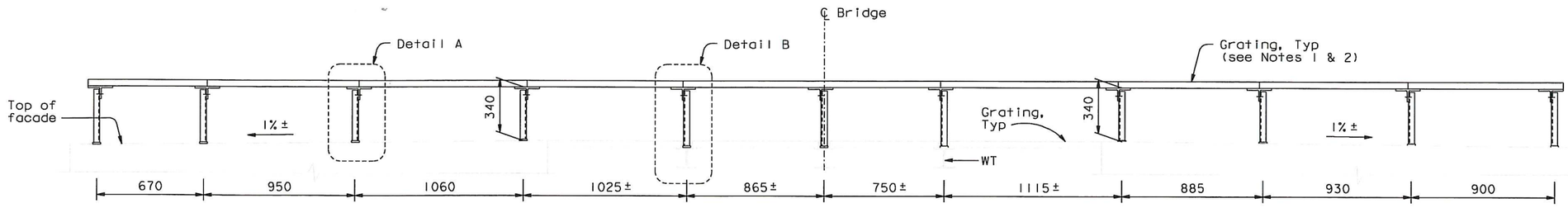


SECTION B-B
1:15

	e	f	g	h	j	k
B1	430	400	200	200	400	430
B2	320	385	325	200	400	430

GRATING SUPPORT
KEY PLAN ABOVE EL 53.85 (See Note 3)
1:50



SECTION C-C
1:15

NOTES:

1. The Contractor shall provide fiberglass grating with fasteners. The grating shall be rated to support 5 kN/m2 loading with deflection not greater than 1 mm.
2. The top of the grating shall be level.
3. For Removable Gratings Plan, see "Tower Access Details No. 26" and "Tower Access Details No. 27" sheets.
4. Welding of channel to WT shall be performed after top of WT is level.
5. Cut grating to provide clearance for grating support posts.

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	938S3R1	1204

REGISTERED ENGINEER - CIVIL
Tien Hung Ho
No. C 43990
Exp. 06/30/13
CIVIL
STATE OF CALIFORNIA
03-25-11
PLANS APPROVAL DATE

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CONTRACT CHANGE ORDER NO. 174
SHEET 4 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#
1	09/16/11	MISCELLANEOUS ELEVATOR DETAILS	TH	NV	174
0	03/25/11	MISCELLANEOUS ELEVATOR DETAILS	TH	NV	174

REVISIONS

R. Vallizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 09/16/11

DESIGN BY T. Ho CHECKED N. Vo
DETAILS BY C. Neff CHECKED A. Baumberger
QUANTITIES BY C. Neff CHECKED A. Baumberger

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. 25

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) 03/25/11

SHEET 52153R1 OF

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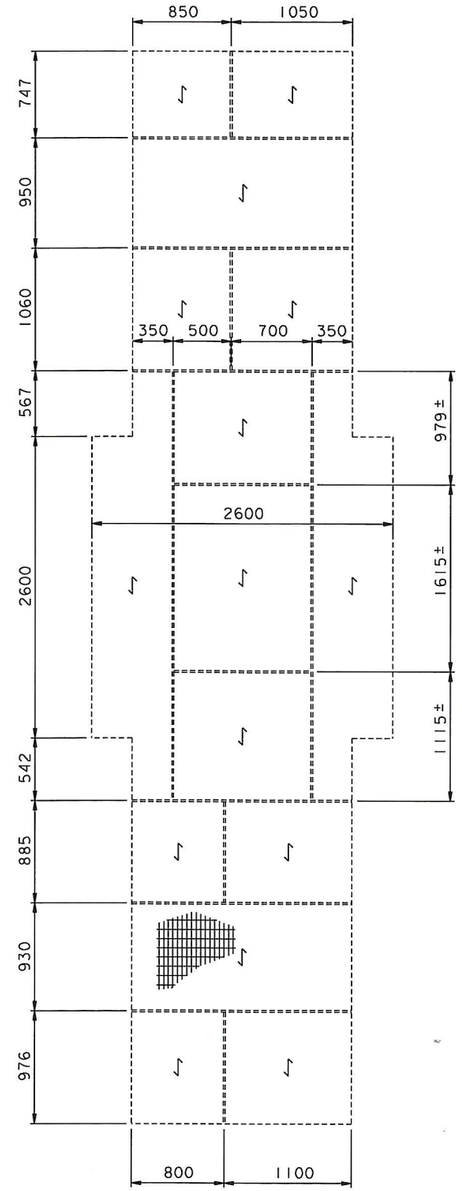
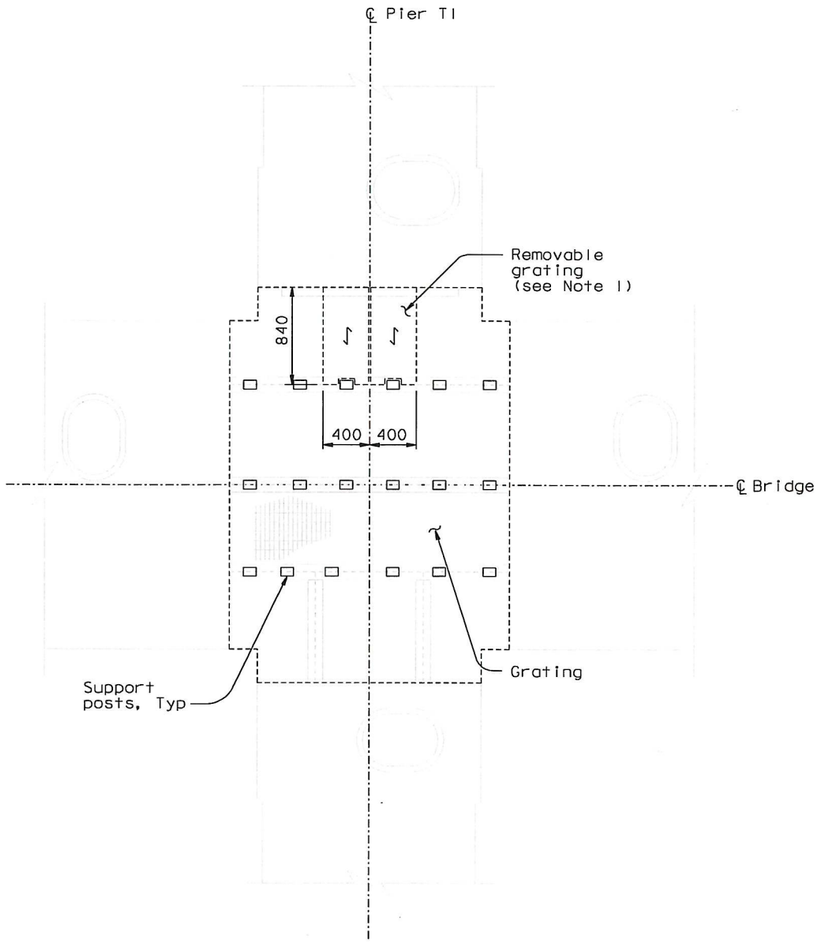


REMOVABLE GRATING
PLAN ABOVE EL 53.85
1:25



REMOVABLE GRATING
PLAN @ EL 53.85
1:25

LEGEND:

Direction of bearing bars

or Grating edges

NOTES:

1. Modify the grating to create a removable panel at indicated location.

CONTRACT CHANGE ORDER NO. 174
SHEET 5 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	93854	1204

REGISTERED ENGINEER - CIVIL
Tien Hung Ho No. C 43990 Exp. 06/30/11 CIVIL
PLANS APPROVAL DATE 03-25-11

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MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
0	03/25/11	MISCELLANEOUS ELEVATOR DETAILS	TH	NV	174

REVISIONS

DESIGN BY T. Ho CHECKED N. Vo
DETAILS BY C. Neff CHECKED A. Baumberger
QUANTITIES BY C. Neff CHECKED A. Baumberger

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. 26

R. Valizadeh/V. Toan/Y. L./W. L./F. C.
DESIGN OVERSIGHT
SIGN OFF DATE 03/25/11

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) 03/25/11

SHEET 52 OF 54

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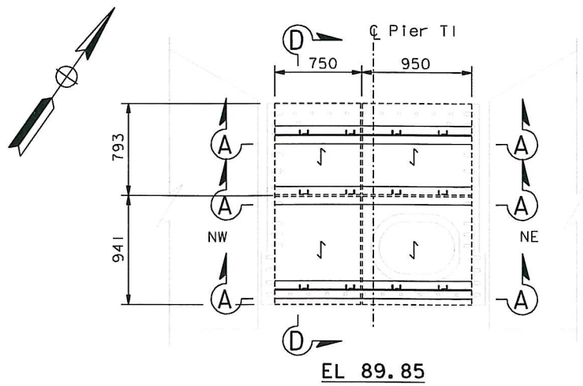
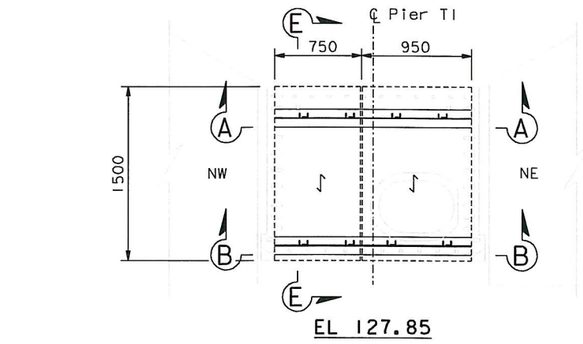


EL 89.85



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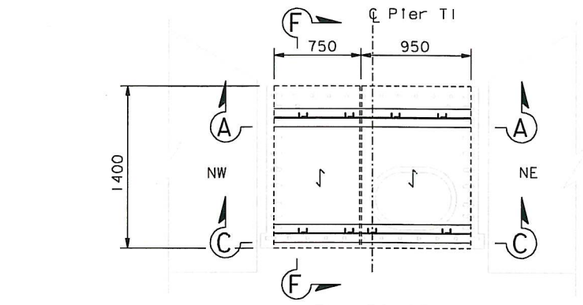
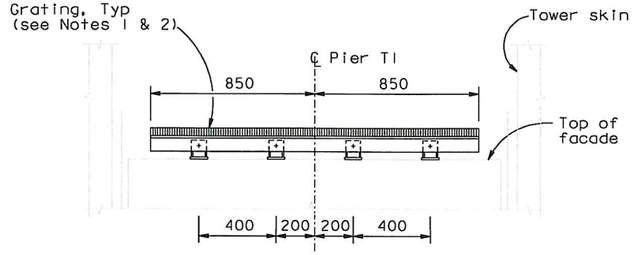


EL 139.85

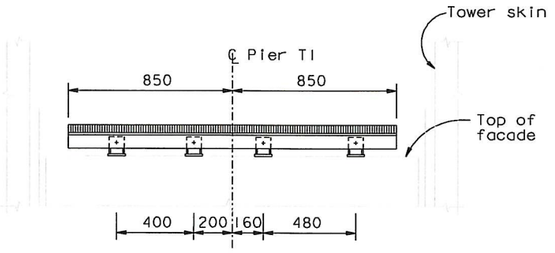
PLAN AT TOP OF REMOVABLE GRATING

1:25



SECTION A-A

1:15



SECTION B-B

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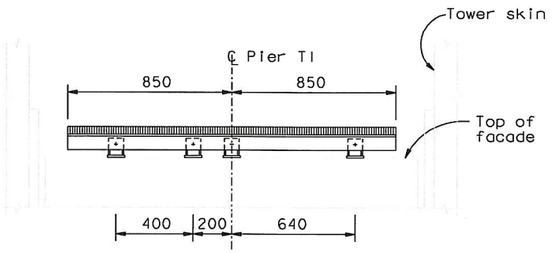

SECTION C-C

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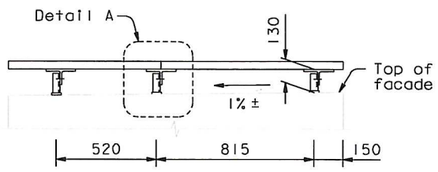

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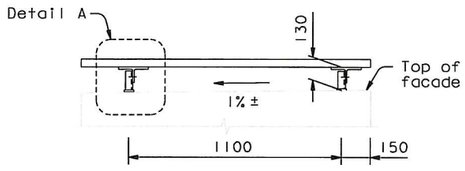

SECTION E-E

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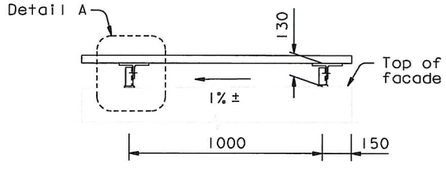

SECTION F-F

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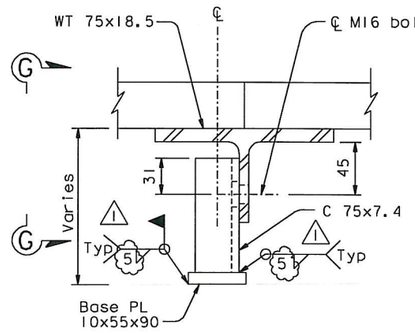
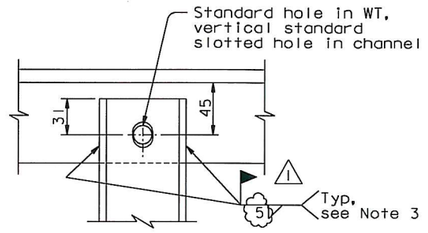


DETAIL A

1:2.5



SECTION G-G

1:2.5

LEGEND:

Direction of bearing bars

or Grating edges

NOTES:

1. The Contractor shall provide fiberglass grating with fasteners. The grating shall be rated to support 5 kN/m2 loading with deflection not greater than 1 mm.
2. The top of the grating shall be level.
3. Welding of channel to WT shall be performed after top of WT is level.

CONTRACT CHANGE ORDER NO. 174
SHEET 6 OF 6

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Caltrans Metric

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	93855R1	1204

REGISTERED ENGINEER - CIVIL

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

03-25-11
PLANS APPROVAL DATE

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MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
1	09/16/11	MISCELLANEOUS ELEVATOR DETAILS	TH	NV	174
0	03/25/11	MISCELLANEOUS ELEVATOR DETAILS	TH	NV	174

REVISIONS

	BY		CHECKED
DESIGN	T. Ho		N. Vo
DETAILS	C. Neff		A. Baumberger
QUANTITIES	C. Neff		A. Baumberger

R. Valizadeh/V. Toan/Y. L./W. L./F. C.
DESIGN OVERSIGHT
Ryan Valizadeh / Vong Toan / Y. Liu
SIGN OFF DATE 09/16/11

Rev. Date: 5-18-98

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. 27

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): 03/25/11

SHEET 52155R1 OF

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