

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
SAS STRUCTURE
 May 12, 2009
 DESIGN OVERSIGHT
 Bob Zandipour
 JNB 4/21/09
 REVISED BY DATE REVISED BY DATE REVISED BY DATE
 5/3/02 5/3/02 5/3/02
 ES RB
 CALCULATED/DESIGNED BY CHECKED BY
 DATE 5/3/02
 x x x x x

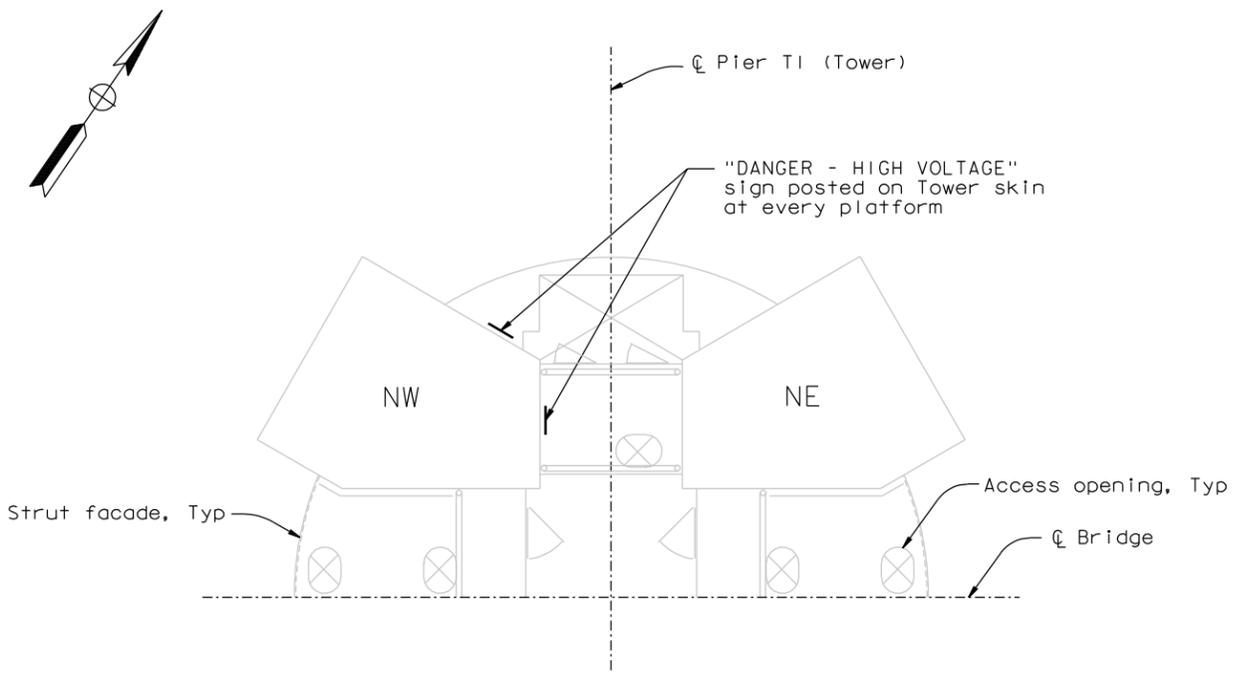


DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SF	80	13.2/13.9	70SI	1204

REGISTERED MECHANICAL ENGINEER
A. L. Ely
 01-23-13
 PLANS APPROVAL DATE
 T.Y. LIN / MOFFATT & NICHOL
 825 BATTERY STREET
 SAN FRANCISCO, CA 94111

REGISTERED PROFESSIONAL ENGINEER
 A. L. ELY
 No. 18880
 Exp. 6-30-13
 MECHANICAL
 STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan steel.
 Caltrans now has a web site! To get to the web site, go to: <http://www.dot.ca.gov>



PARTIAL TOWER ACCESS PLAN
1:50

CONTRACT CHANGE ORDER NO. _____
 SHEET ____ OF ____

REQUESTS FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE.

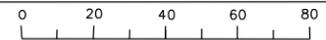
MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
△	01/29/13	ADDITIONAL MISCELLANEOUS ELEVATOR DETAILS	JB	AE	174SI

REVISIONS

NOTES:
 1. For sign details, see "Sign Details" sheets.

ELEVATOR DETAIL NO. 3
SCALE: 1:250

ALL DIMENSION ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN
M-35

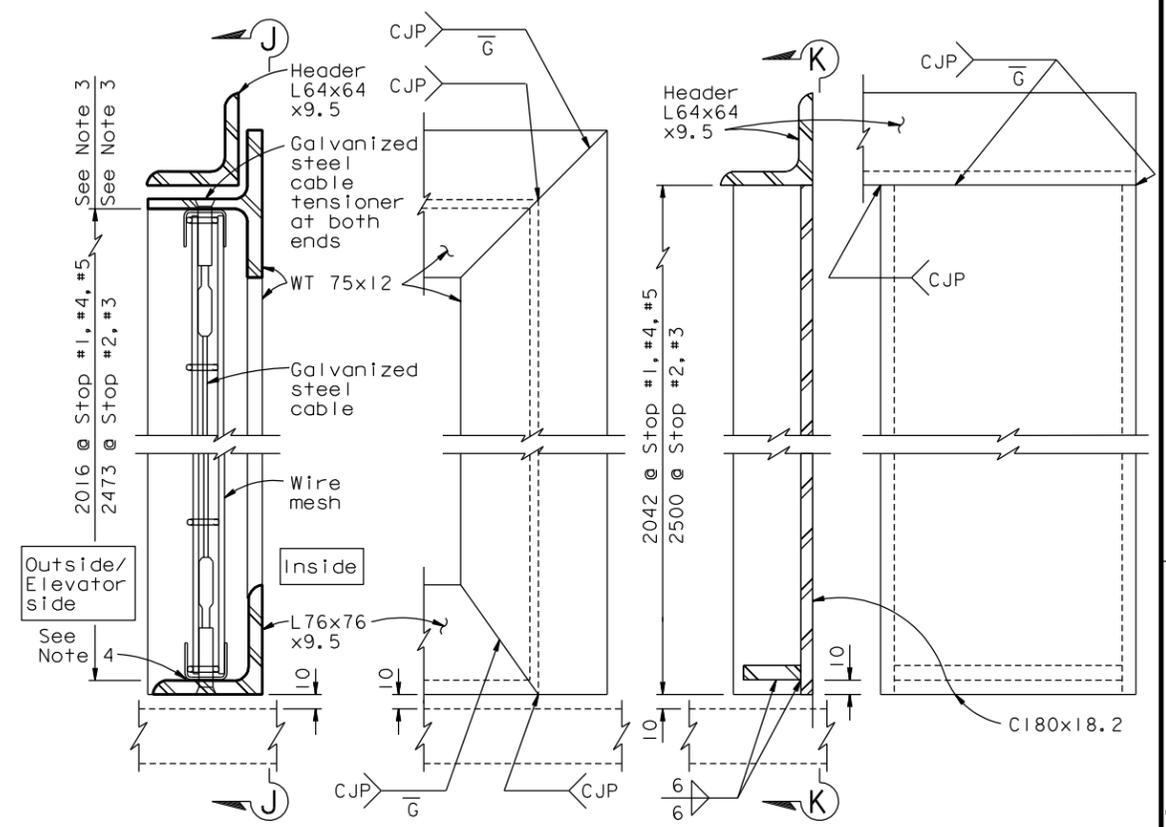
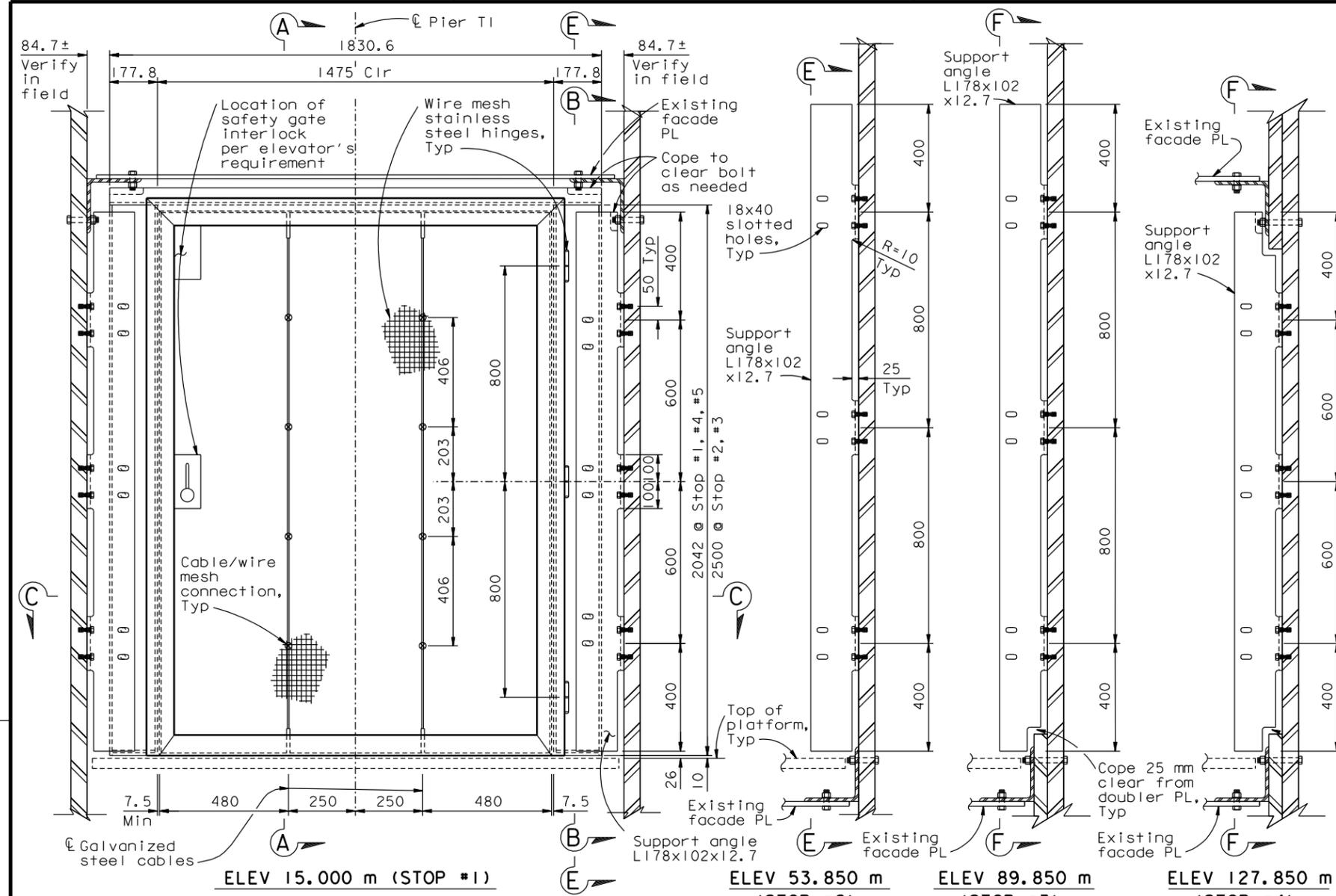




DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	940S2R2	1204

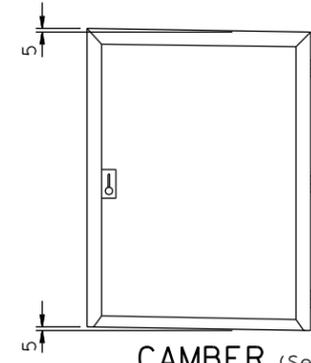
REGISTERED ENGINEER - CIVIL
 Tien Hung Ho
 No. C 43990
 Exp. 06/30/13
 CIVIL
 STATE OF CALIFORNIA

PLANS APPROVAL DATE
 08-19-11
 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.
 T.Y. LIN / MOFFATT & NICHOL
 825 BATTERY STREET
 SAN FRANCISCO, CA 94111
 Caltrans now has a web site! To get to the web site, go to: <http://www.dot.ca.gov>



ELEVATOR SAFETY GATE

1:10 (*See Stop #1 for details not shown)
(Looking north towards elevator) See Note 5



CONTRACT CHANGE ORDER NO. _____
SHEET _____ OF _____

SECTION C-C
1:2.5

- NOTES:**
- Provide 5 mm camber to account for self weight deflection of safety gate.
 - For Section E-E & F-F, see "Tower Elevator Enclosure Detail No.4" sheet.
 - Vertical height of steel frames shall be adjusted to receive the horizontal zigzag wires with U-band frame at top and bottom.
 - Welding of wire mesh U-band frame to steel frame shall be in accordance with wire mesh manufacturer's recommendations.
 - Width of steel frames shall be adjusted to receive the wire mesh with U-band frame.

REQUESTS FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE				
MARK	DATE	DESCRIPTIONS	BY	CH'D
△	01/15/13	ADDITIONAL MISCELLANEOUS ELEVATOR DETAILS	GM	TH
△	11/03/11	ELEVATOR DETAILS	GM	TH
△	08/19/11	ELEVATOR DETAILS	GM	TH
△	08/19/11	ELEVATOR DETAILS	GM	TH

DESIGN	BY	CHECKED
DESIGN	G. Mok	T. Ho
DETAILS	G. Mok	T. Ho
QUANTITIES	G. Mok	T. Ho

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION		BRIDGE NO. 34-0006L/R KILOMETER POST 13.2/13.9
R. Manzanarez PROJECT ENGINEER	ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN	SAN FRANCISCO OAKLAND BAY BRIDGE EAST SPAN SEISMIC SAFETY PROJECT SELF-ANCHORED SUSPENSION BRIDGE (SUPERSTRUCTURE & TOWER) TOWER ELEVATOR ENCLOSURE DETAILS NO.2

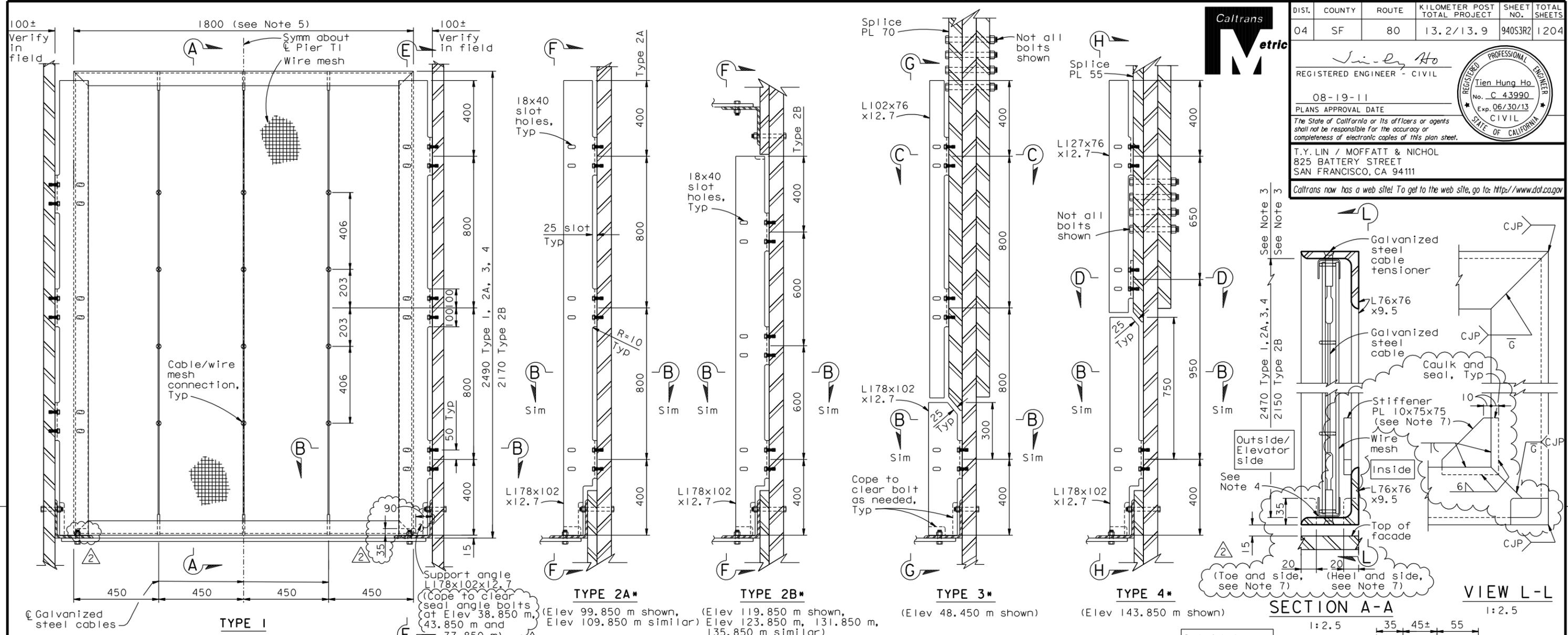


DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	94053R2	1204

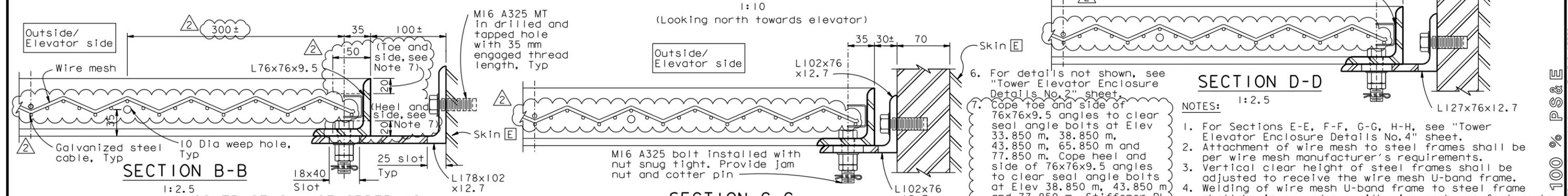
Tien Hung Ho
 REGISTERED ENGINEER - CIVIL
 No. C 43990
 Exp. 06/30/13
 CIVIL
 STATE OF CALIFORNIA

08-19-11
 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.

T.Y. LIN / MOFFATT & NICHOL
 825 BATTERY STREET
 SAN FRANCISCO, CA 94111
 Caltrans now has a web site! To get to the web site, go to: <http://www.dot.ca.gov>



SAFETY ENCLOSURE DETAILS (*See Type I for details not shown)



CONTRACT CHANGE ORDER NO. _____
 SHEET _____ OF _____

REQUESTS FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE				
MARK	DATE	DESCRIPTIONS	BY	CH'D
△	01/15/13	ADDITIONAL MISCELLANEOUS ELEVATOR DETAILS	GM	TH
△	11/03/11	ELEVATOR DETAILS	GM	TH
△	08/19/11	ELEVATOR DETAILS	GM	TH
△	01/15/13	DESIGN OVERSIGHT	GM	TH

DESIGN	BY	CHECKED
DESIGN	G. Mok	T. Ho
DETAILS	G. Mok	T. Ho
QUANTITIES	G. Mok	T. Ho

PREPARED FOR THE STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

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

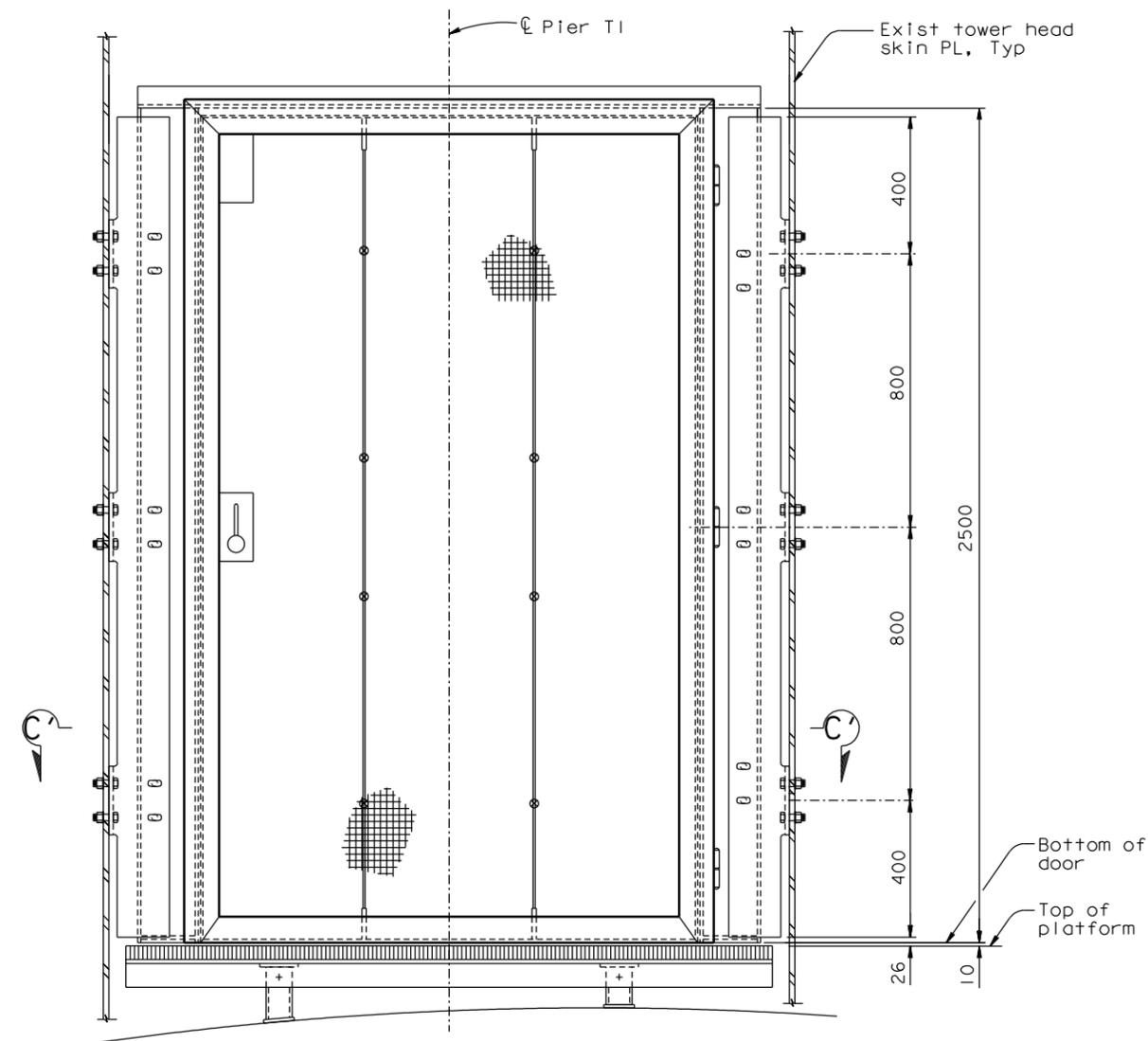
SAN FRANCISCO OAKLAND BAY BRIDGE
EAST SPAN SEISMIC SAFETY PROJECT
SELF-ANCHORED SUSPENSION BRIDGE
(SUPERSTRUCTURE & TOWER)
TOWER ELEVATOR ENCLOSURE DETAILS NO. 3



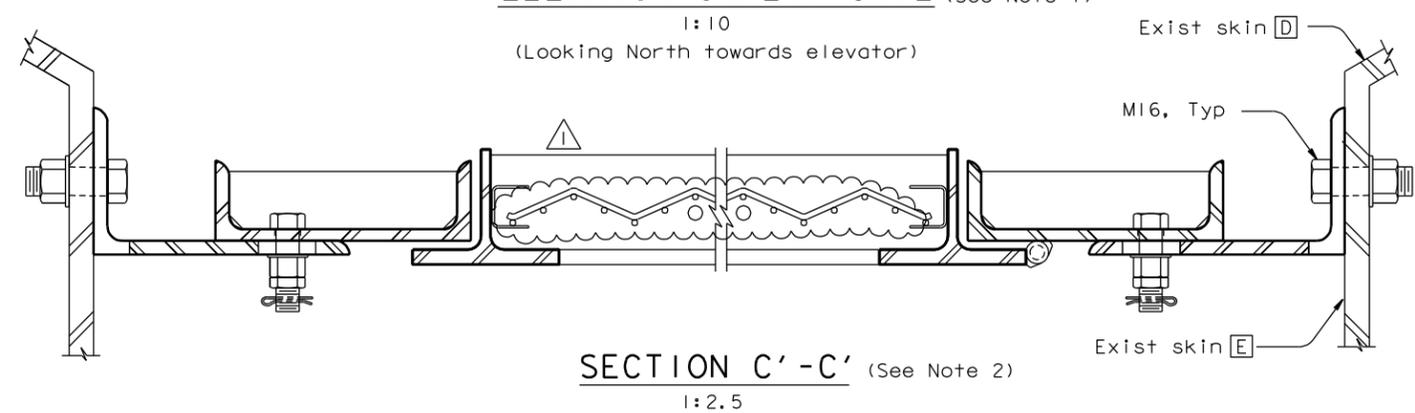
DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	940S4AR1	1204

Sui-ly Ho
 REGISTERED ENGINEER - CIVIL
 09-16-11
 PLANS APPROVAL DATE
 Tien Hung Ho
 No. C 43990
 Exp. 06/30/13
 CIVIL
 STATE OF CALIFORNIA

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.
 T.Y. LIN / MOFFATT & NICHOL
 825 BATTERY STREET
 SAN FRANCISCO, CA 94111
 Caltrans now has a web site! To get to the web site, go to: <http://www.dot.ca.gov>



ELEV 156.750 m (STOP #6)
ELEVATOR SAFETY GATE (See Note 1)
 1:10
 (Looking North towards elevator)



SECTION C'-C' (See Note 2)
 1:2.5

NOTES:

- Stop #6 is similar to Stop #3. For details not shown, see "Tower Elevator Enclosure Details No.2" sheet.
- For Details not shown, see Section C-C on "Tower Elevator Enclosure Details No.2" sheet.

CONTRACT CHANGE ORDER NO. ____
 SHEET ____ OF ____

REQUESTS FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
 DESIGN OVERSIGHT
 SIGN OFF DATE 01/15/13

MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
△	01/15/13	ADDITIONAL MISCELLANEOUS ELEVATOR DETAILS	GM	TH	174S1
△	09/16/11	TOWER SUSPENDER CABLE & ELEVATOR	GM	TH	203S1

DESIGN	BY	CHECKED
DESIGN	G. Mok	T. Ho
DETAILS	G. Mok	T. Ho
QUANTITIES	G. Mok	T. Ho

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 ELEVATOR ENCLOSURE DETAILS NO. 5

Rev. Date: 5-18-98



CU 04
EA 0120F1

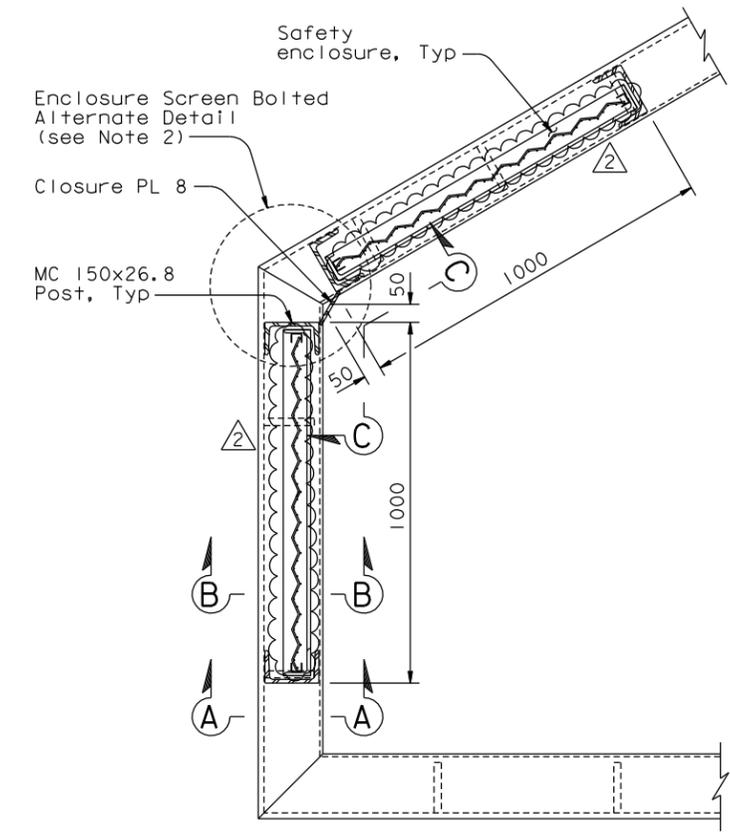
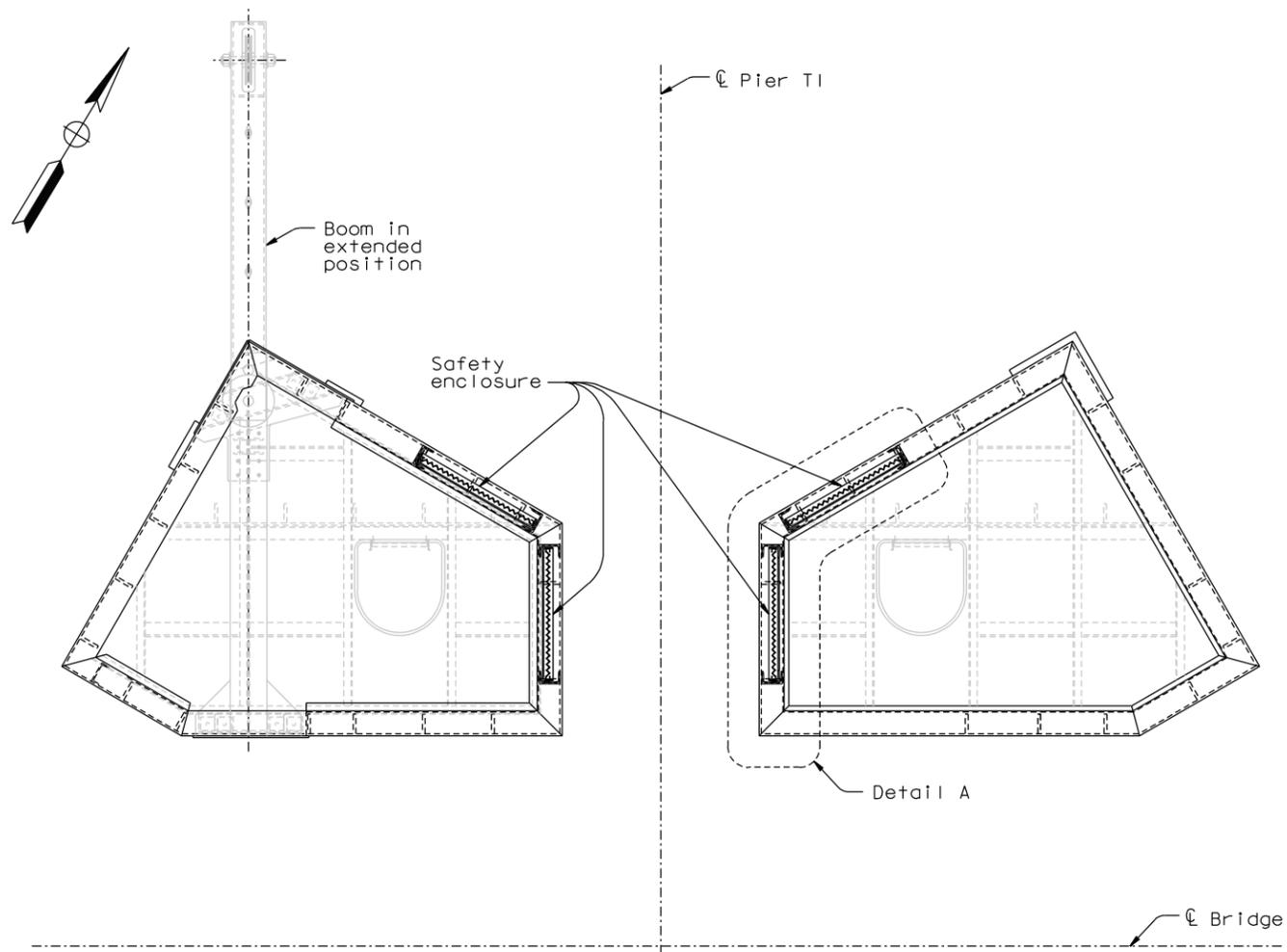
DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)	09/16/11	SHEET	523S4AR1	OF	
---	----------	-------	----------	----	--

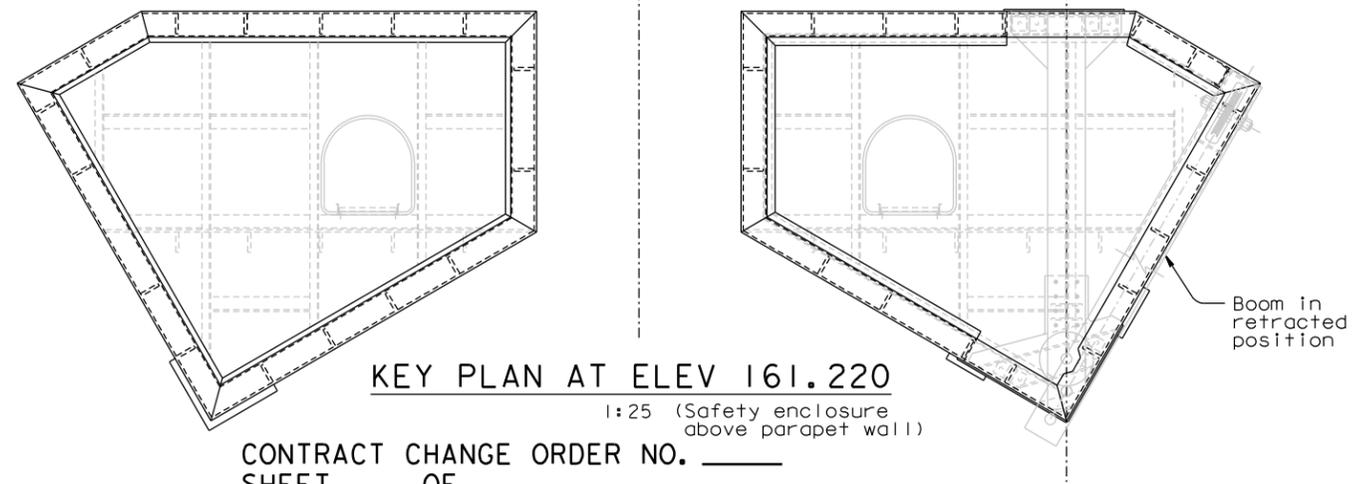


DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	940S4BR2	1204

REGISTERED ENGINEER - CIVIL
 11-04-11
 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.
 T.Y. LIN / MOFFATT & NICHOL
 825 BATTERY STREET
 SAN FRANCISCO, CA 94111
 Caltrans now has a web site! To get to the web site, go to: <http://www.dot.ca.gov>



DETAIL A
1:10



KEY PLAN AT ELEV 161.220
1:25 (Safety enclosure above parapet wall)

CONTRACT CHANGE ORDER NO. _____
SHEET ____ OF ____

REQUESTS FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE

MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
△	01/15/13	ADDITIONAL MISCELLANEOUS ELEVATOR DETAILS	NV	MN	174S1
△	05/16/12	TOWER ELEVATOR SAFETY ENCLOSURE	NV	MN	203S2
△	11/04/11	TOWER ELEVATOR SAFETY ENCLOSURE	NV	MN	203S2

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

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

R. Manzanarez
PROJECT ENGINEER

SAN FRANCISCO OAKLAND BAY BRIDGE EAST SPAN SEISMIC SAFETY PROJECT	
SELF-ANCHORED SUSPENSION BRIDGE (SUPERSTRUCTURE & TOWER)	
TOWER ELEVATOR ENCLOSURE DETAILS NO. 6	

NOTES:

- For Sections A-A, B-B and View C-C, see "Tower Elevator Enclosure Details No.7" sheet.
- For Enclosure Screen Bolted Alternate Detail, see "Tower Enclosure Details No.7" sheet.

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 01/15/13

Rev. Date: 5-18-98



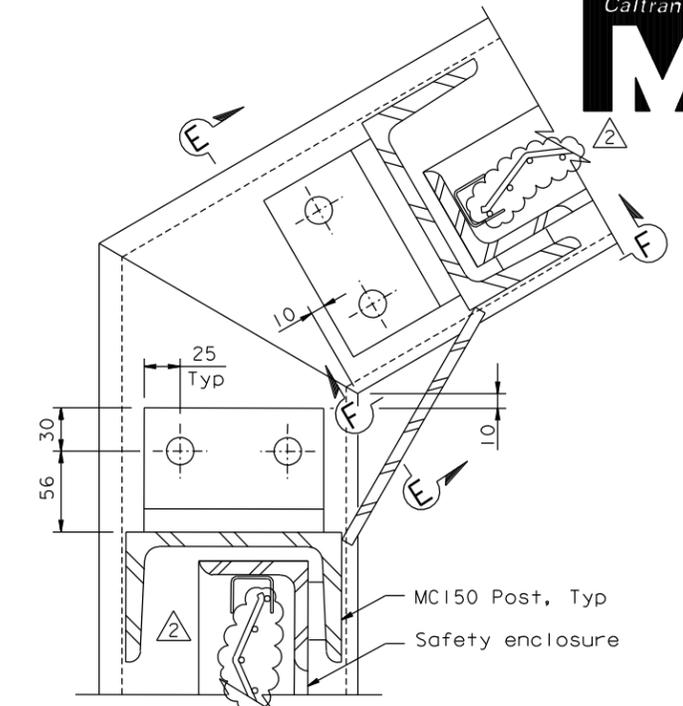
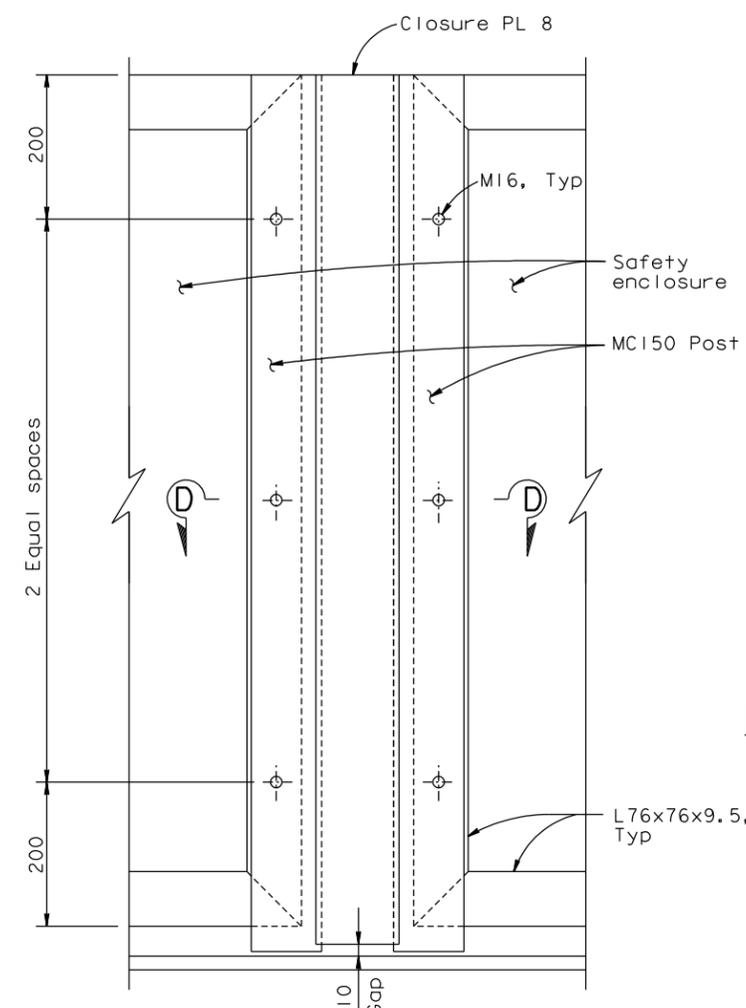
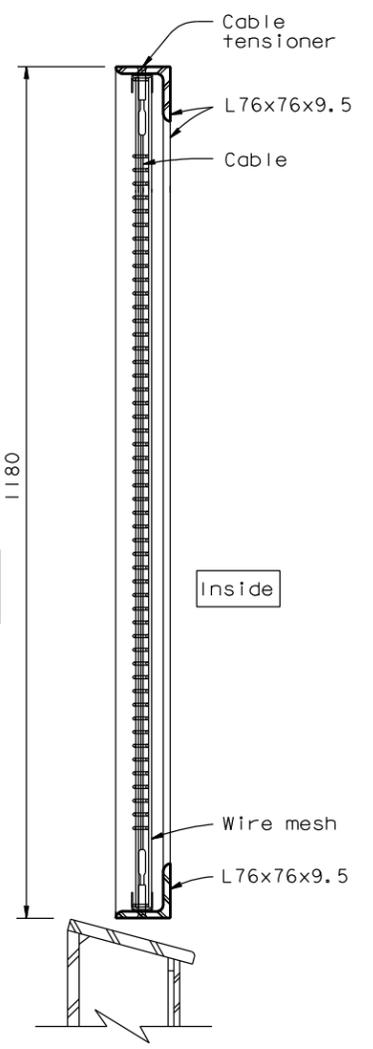
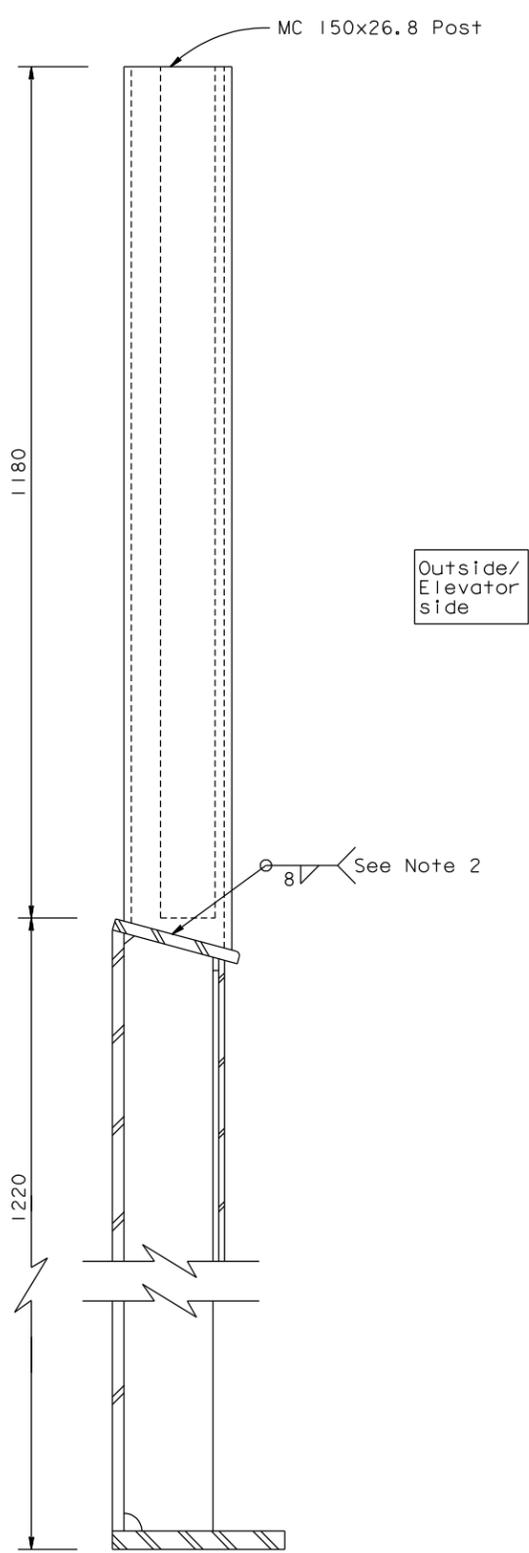
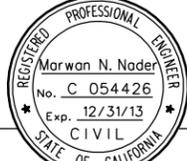
CU 04
EA 0120F1

DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET 523S4BR2 OF 1204
---	---	------------------------

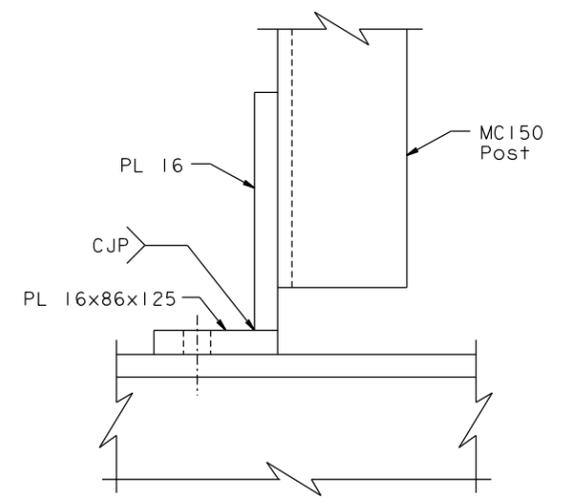
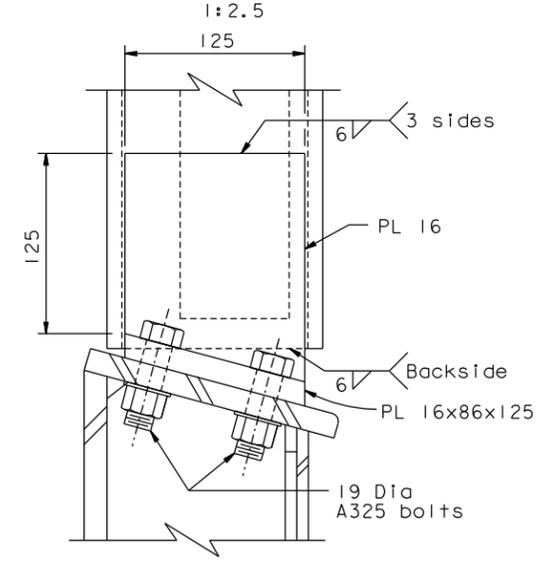


DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	940S4CR2	1204

REGISTERED ENGINEER - CIVIL
 11-04-11
 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.
 T.Y. LIN / MOFFATT & NICHOL
 825 BATTERY STREET
 SAN FRANCISCO, CA 94111
 Caltrans now has a web site! To get to the web site, go to: <http://www.dot.ca.gov>



ENCLOSURE SCREEN BOLTED ALTERNATE DETAIL

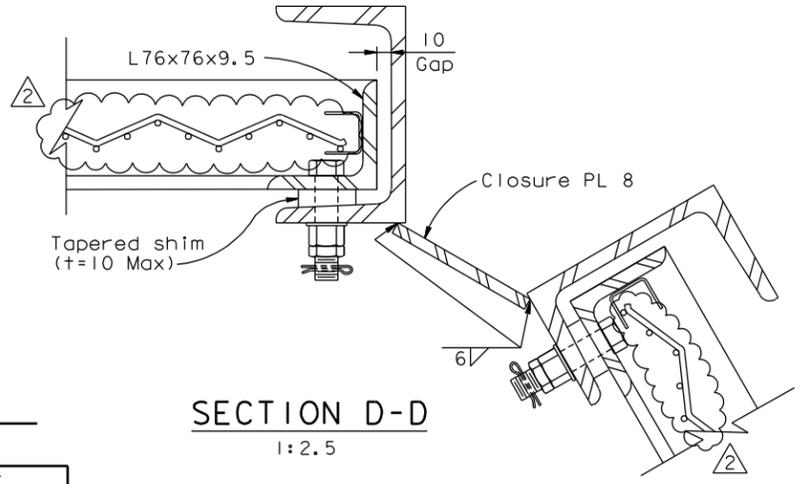


SECTION B-B (See Note 1)
1:5

VIEW C-C (Developed)
1:5

SECTION E-E
1:2.5

SECTION F-F
1:2.5



SECTION D-D
1:2.5

SECTION A-A
1:5

NOTES:

- For enclosure details not shown, see "Tower Elevator Enclosure Details No.2" sheet.
- At the Contractor's option, Enclosure Screen Bolted Alternate Detail may be used in lieu of fillet weld.

CONTRACT CHANGE ORDER NO. _____
SHEET _____ OF _____

REQUESTS FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE

MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
△	01/15/13	ADDITIONAL MISCELLANEOUS ELEVATOR DETAILS	NV	MN	174S1
△	05/16/12	TOWER ELEVATOR EXTENSION	NV	MN	203S2
△	11/04/11	TOWER ELEVATOR EXTENSION	NV	MN	203S2

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
Rgn Valizadeh / V. Toan / Y. Liu
SIGN OFF DATE 01/15/13

DESIGN	BY N. Vo	CHECKED M. Nader
DETAILS	BY N. Vo	CHECKED A. Baumberger
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 ELEVATOR ENCLOSURE DETAILS NO. 7

Rev. Date: 5-18-98

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS

CU 04
EA 0120F1

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)
11/04/11
SHEET 723S4CR2 OF



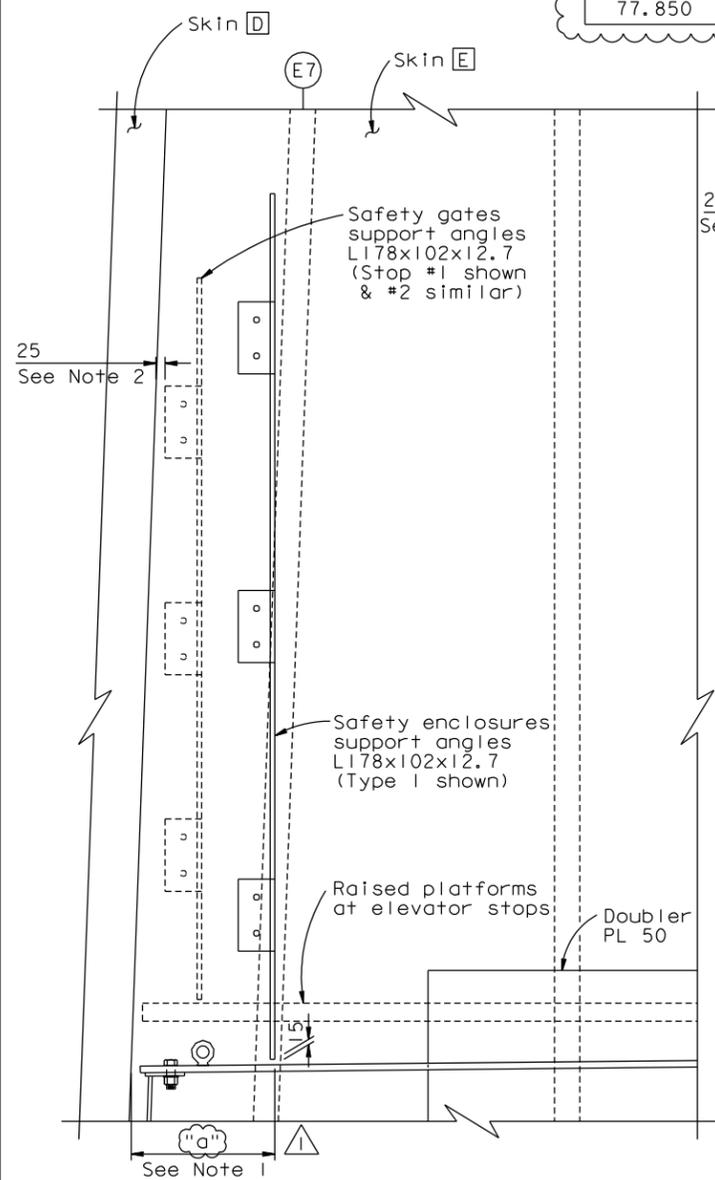
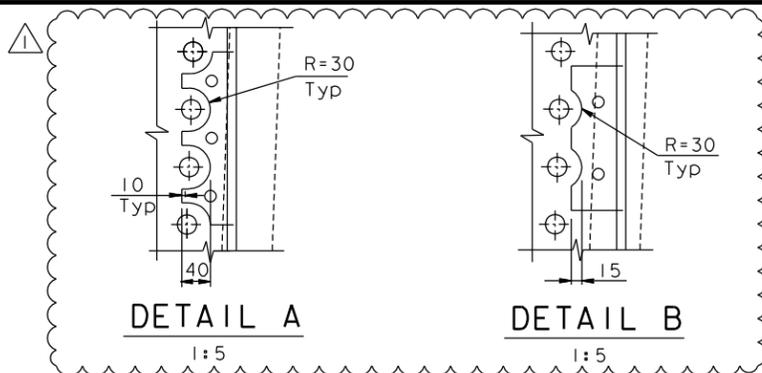
DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	94054R1	1204



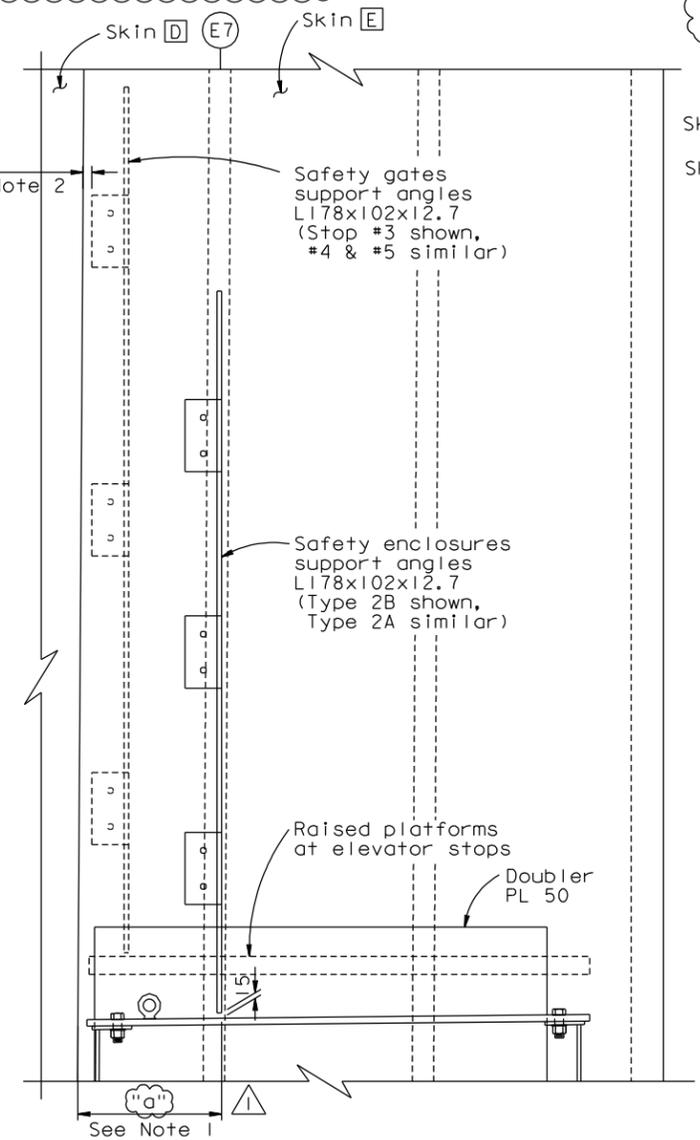
REGISTERED ENGINEER - CIVIL
 08-19-11
 PLANS APPROVAL DATE
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

T.Y. LIN / MOFFATT & NICHOL
 825 BATTERY STREET
 SAN FRANCISCO, CA 94111
 Caltrans now has a web site! To get to the web site, go to: <http://www.dot.ca.gov>

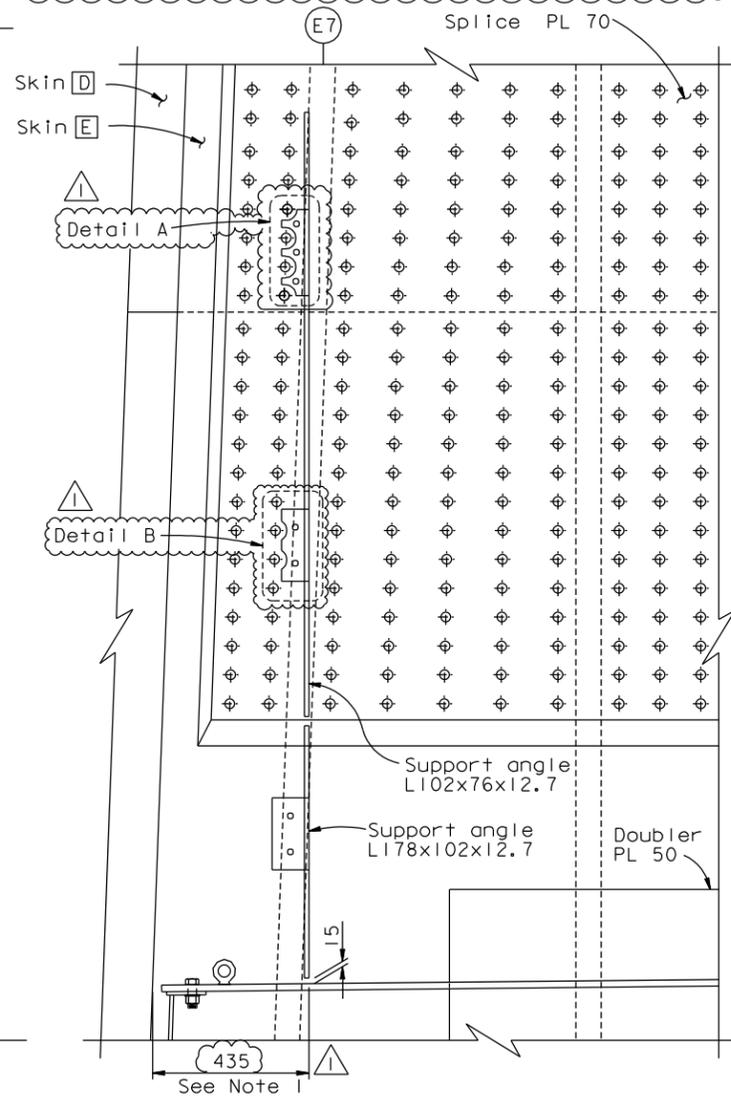
ELEVATION (m)	"a" (mm)	ELEVATION (m)	"a" (mm)
18.850	415	99.850	425
23.850	430	109.850	425
28.850	420	119.850	435
33.850	390	123.850	425
38.850	300	131.850	425
43.850	200	135.850	425
65.850	410		
77.850	200		



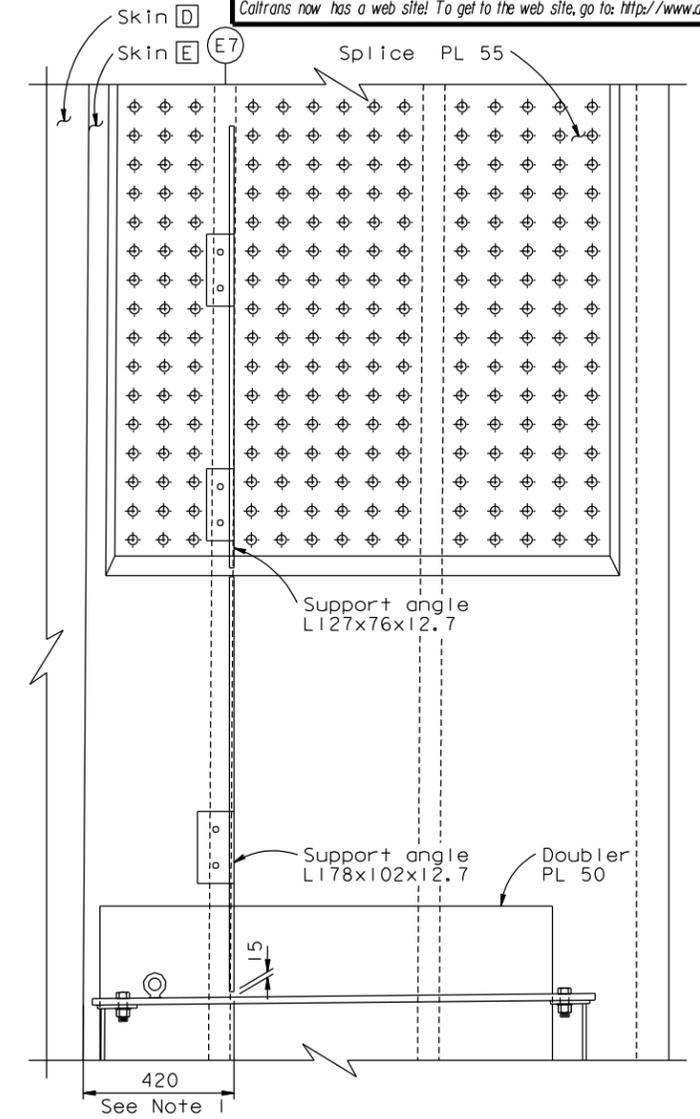
SECTION E-E (Elev 15.000 m thru Elev 77.850 m)
 1:10
 (North shaft shown, West shaft similar & opposite handed)



SECTION F-F (Elev 89.850 m thru Elev 139.850 m)
 1:10
 (North shaft shown, West shaft similar & opposite handed)



SECTION G-G (Elev 48.450 m)
 1:10
 (North shaft shown, West shaft similar & opposite handed)



SECTION H-H (Elev 143.850 m)
 1:10
 (North shaft shown, West shaft similar & opposite handed)

- NOTES:**
- Dimension may be adjusted to clear splice bolts, pad eyes and other interferences.
 - Dimension may be increased so that safety gate interlock will not interfere with the elevator.

CONTRACT CHANGE ORDER NO. _____
 SHEET _____ OF _____

REQUESTS FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
 DESIGN OVERSIGHT
 R. Valizadeh/V. Toan/Y.L./W.L./F.C.
 SIGN OFF DATE 01/15/13

MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
△	01/15/13	ADDITIONAL MISCELLANEOUS ELEVATOR DETAILS	GM	TH	174S1
△	08/19/11	ELEVATOR DETAILS	GM	TH	85

DESIGN	BY	CHECKED
DESIGN	G. Mok	T. Ho
DETAILS	G. Mok	T. Ho
QUANTITIES	G. Mok	T. Ho

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 ENCLOSURE DETAILS NO. 4

Rev. Date: 5-18-98



CU 04
EA 0120F1

REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET	OF
08/19/11	52354R	1

100% P&E
 DATE PLOTTED => 15 JAN 2013
 USERNAME => DWInow