T·Y·LIN INTERNATIONAL
MOFFATT & NICHOL
a joint venture

SFOBB – SAS Project
Two Harrison Street, Suite 500, San Francisco, CA 94105
Telephone (415) 291-3700 Facsimile (415) 433-0807

CCO SUBMITTAL

SFOBB SAS Project # 04-0120F4

To: Caltrans Construction
333 Burma Road
Oakland, CA 94607

Attn: Rick Morrow

Date: January 9, 2008

Contract No: 04-0120F4
04-SF-80-13.2, 13.9

Job Name: SAS Project – SFOBB

CCO No.: 42S1

Subject: Cable Tray Changes

CCO 42S1 Review Comments
By
Sandy Michelotti & Michael Travis
March 17, 2008

CCO Comments:

Per Caltrans direction via email dated December 20, 2007, this CCO has been prepared to address Cable Tray Changes.

Per Grady Hart's email dated October 11, 2007 directed to the Design JV, the general content of this CCO was defined by including the following RFI's: RFI's 375R0, 377R0, 460R0, 460R1, 675R0, 790R0, 790R1, 793R0, 794R0, 794R1, 811R0, 811R1, 814R0, 845R0, 861R0, and 919R0. Further, it was determined to include sheet 964 of 1204 into the CCO, which required including RFI's 789R0 and 1038R0 per Grady Hart email dated 12/7/07.

Upon review, the Design JV scope includes: RFI 460R1 (affecting sheets 452 and 452S1 of 1204), RFI 789R0 (affecting sheet 964), RFI 811R1 (affecting sheet 631S1 of 1204), RFI 814R0 (affecting sheet 706 of 1204), and RFI 1038 (affecting sheet 964 of 1204).

In order to ascertain the completeness of the CCO, it is recommended that Caltrans coordinate with PB the projected modified plan sheets.

Below, please find a list of drawings with their associated RFI's that have been included in this CCO:

Sheet No.	*RFI Number*
452R1	460R1
452S1	460R1
631S1	811R1
706R1	814R0
964R1	789R0, 1038R0

Impact to Scope of Work: None.

Impact to Quantities: None

CCO Attachments:
Revised Plan Sheets: 452R1, 452S1, 631S1, 706R1, and 964R1

Reviewed By: J. Duxbury, A. Sanjines

QA/QC By: M. Nader

CC: File: TYLIN/MN-

T.Y.LIN INTERNATIONAL
MOFFATT & NICHOL ENGINEERS
a joint venture

Memorandum

To: Caltrans Construction
333 Burma Road
Oakland, CA 94607

Date: 01/09/08
File: 04-0120F4
04-SF, Ala-80
SFOBB East Spans
SAS

Attn: Rick Morrow
Subject: CCO # 42S1 Cable Tray Changes

It is requested that a contract change order be issued to incorporate the following changes:

PLANS:

Revised:

Plan Sheet	452R1	of 1204
Plan Sheet	452S1	of 1204
Plan Sheet	631S1	of 1204
Plan Sheet	706R1	of 1204
Plan Sheet	964R1	of 1204

SPECIAL PROVISIONS:

N/A

ESTIMATE:

N/A

Any questions regarding this request should be directed to Marwan Nader at (415) 291-3731.

Regards,

T.Y. Lin International – Moffatt & Nichol (J.V.)

Marwan N. Nader, P.E.
Project Manager, SFOBB-SAS

Enclosure

cc: James Duxbury, T.Y.Lin International
Alex Sanjines, T.Y.Lin International

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	452R1	1204

REGISTERED ENGINEER - CIVIL

12-6-04
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER John A. Denis No. C 26169 Exp. 03/31/06 CIVIL STATE OF CALIFORNIA

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825 BATTERY STREET
SAN FRANCISCO, CA 94111

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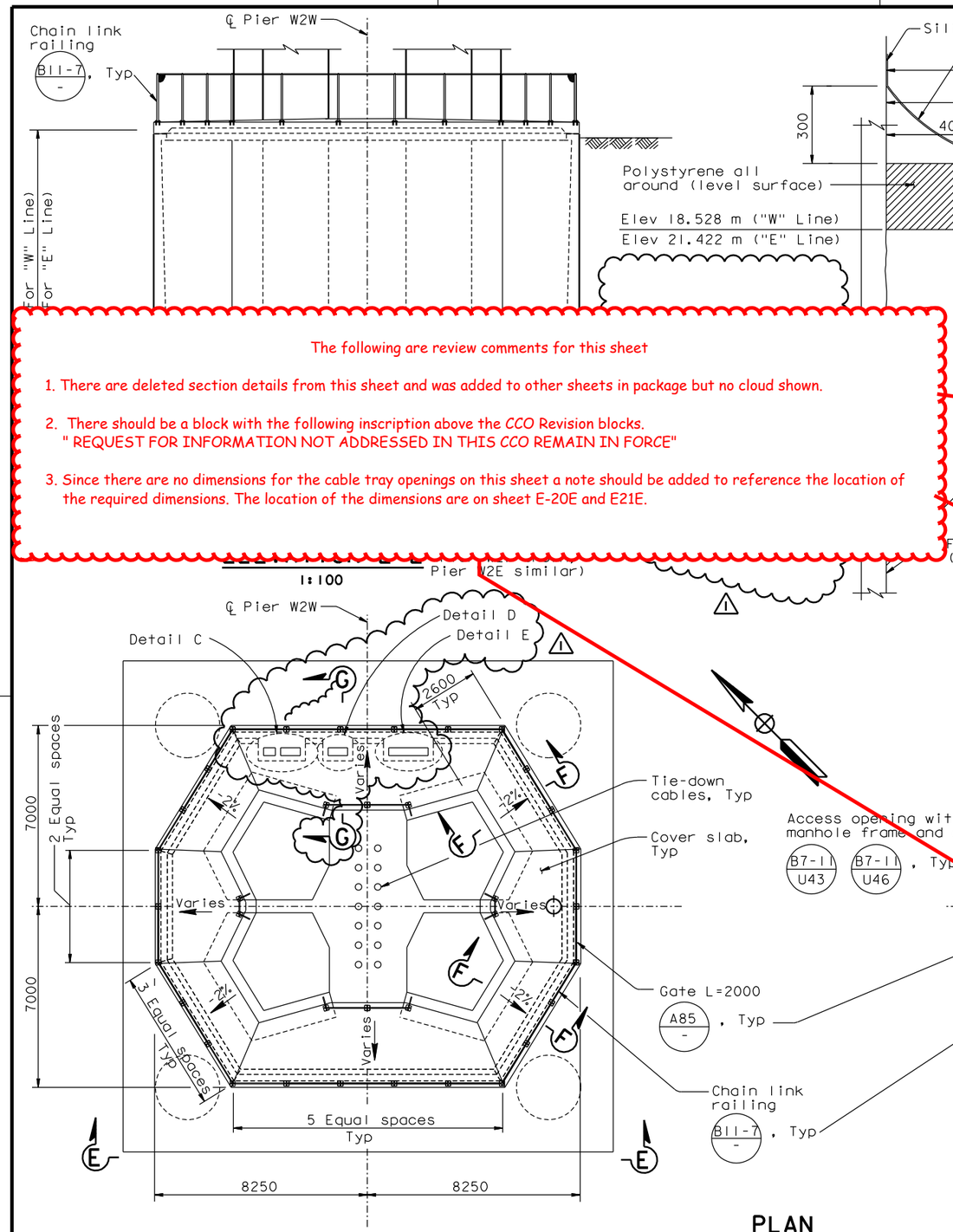
The following are review comments for this sheet

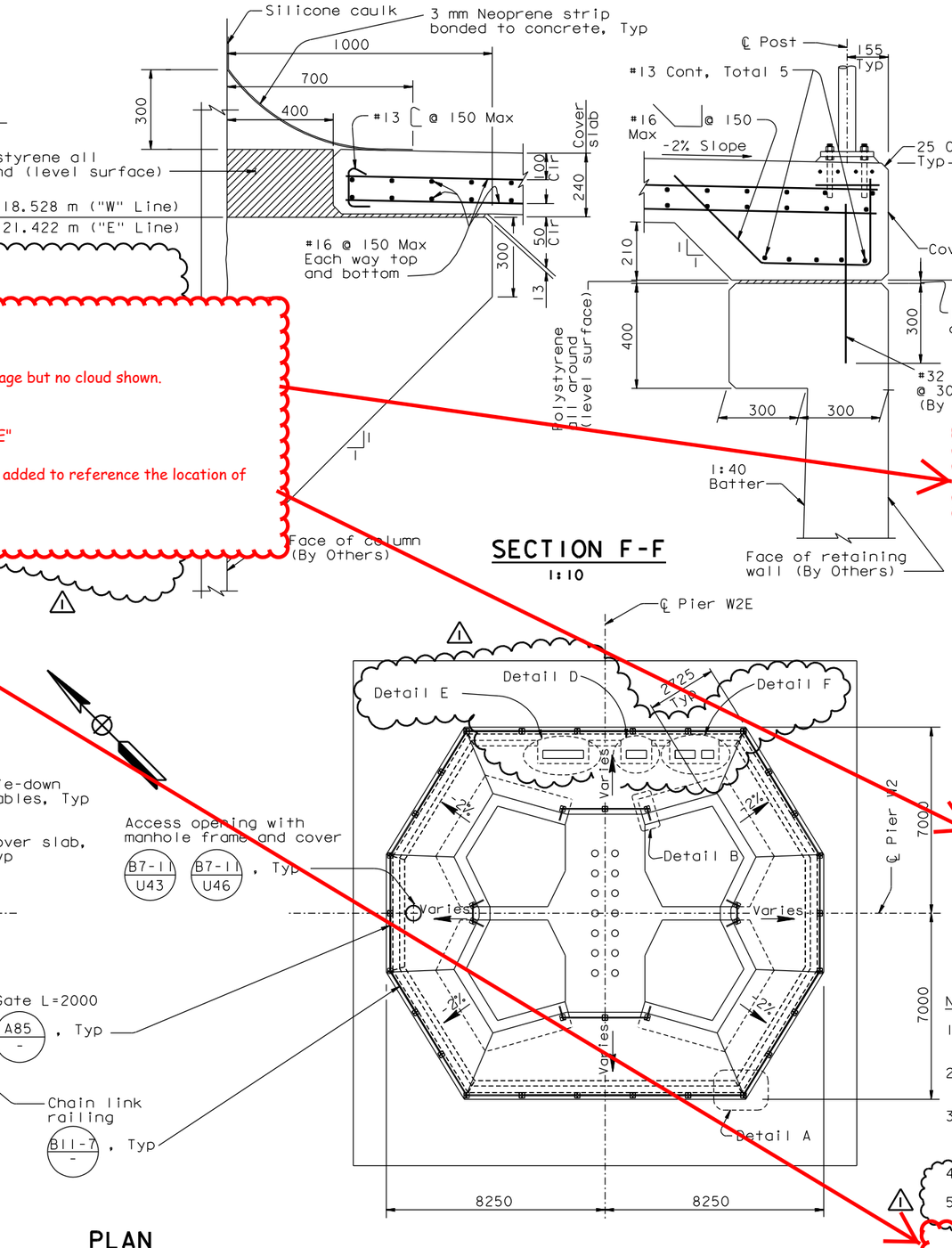
1. There are deleted section details from this sheet and was added to other sheets in package but no cloud shown.

2. There should be a block with the following inscription above the CCO Revision blocks.
" REQUEST FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE"

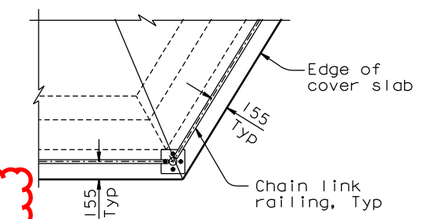
3. Since there are no dimensions for the cable tray openings on this sheet a note should be added to reference the location of the required dimensions. The location of the dimensions are on sheet E-20E and E21E.



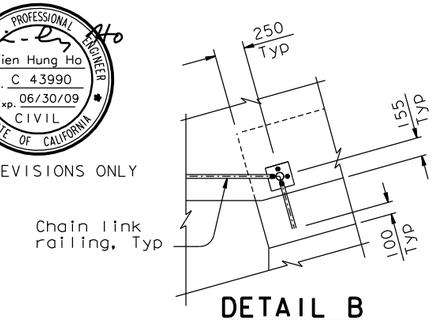
PLAN
1:100



SECTION F-F
1:10



DETAIL A
1:25



DETAIL B
1:25

REGISTERED PROFESSIONAL ENGINEER Tien Hung Ho No. C 43990 Exp. 06/30/09 CIVIL STATE OF CALIFORNIA

FOR REVISIONS ONLY

MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
1	01/09/08	CABLE TRAY CHANGES	TH	JD	42S1

REVISIONS

CONTRACT CHANGE ORDER NO. ____
SHEET ___ OF ___

NOTES:

1. For pier W2 access details, see "Pier W2 Access Details" sheet.
2. For utility cable trays, location of openings and embed strut channel, see "Road Plans".
3. Fill gap between cable tray and concrete with polystyrene, caulk all around, covered with 3 mm Neoprene strip (similar to that shown in Section F-F).
4. For Section G-G see "Pier W2 Details No.6A" sheet.
5. For Details C, D, E and F, see "Pier W2 Details No.6A" sheet.

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 01/09/08

Rev. Date: 5-18-98

	BY	CHECKED
DESIGN	J. Denis	J. Leventini
DETAILS	K. Tam	J. Leventini
QUANTITIES	J. Denis	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)

PIER W2 DETAILS NO.6

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) 05/18/99 08/02/99 05/31/01 04/08/02 07/01/02 08/07/02 12/19/02 05/18/03 10/12/04

SHEET 35R1 OF

FILE => I:\bb\04-0120F1\sas\contract plans and cco\cco\in progress\cco#42s1\dgn\aepir04-r1.dgn

USERNAME => ptom DATE PLOTTED => 09 JAN 2008 TIME PLOTTED => 14:27:07

100% PS&E

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	452S1	1204

Caltrans Metric

REGISTERED ENGINEER - CIVIL

01-09-08
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Tien Hung Ho No. C 43990 Exp. 06/30/09 CIVIL STATE OF CALIFORNIA

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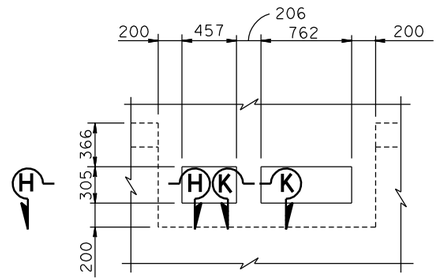
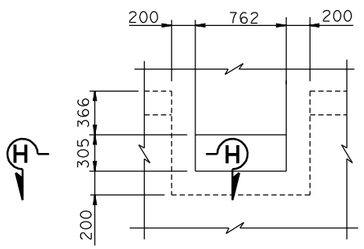
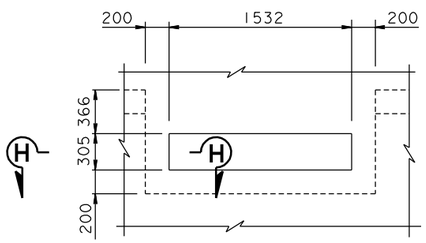


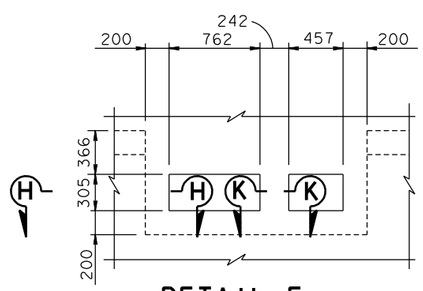
DETAIL C
1:25



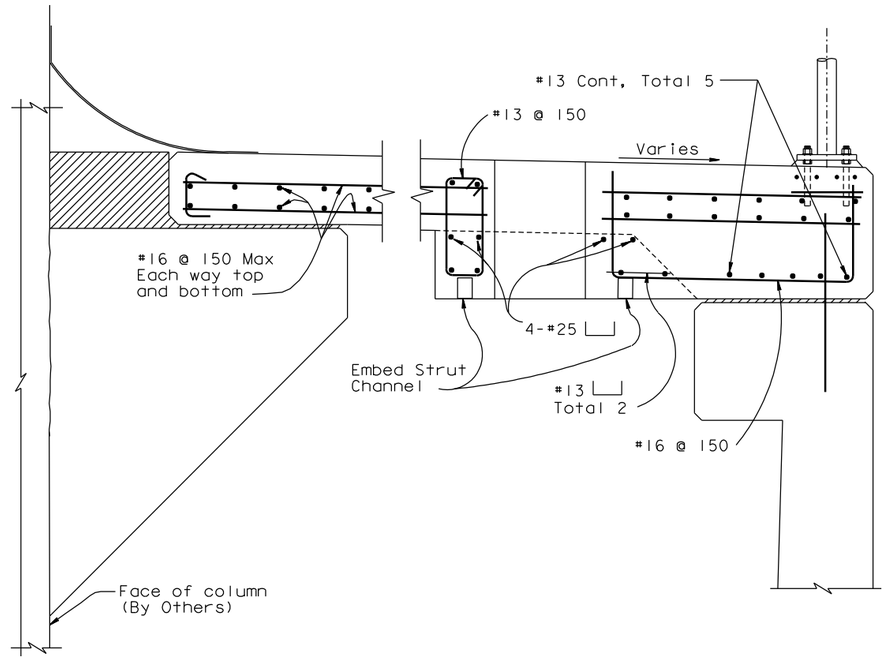
DETAIL D
1:25



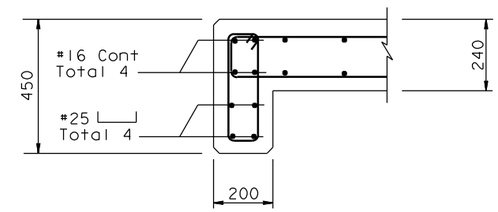
DETAIL E
1:25



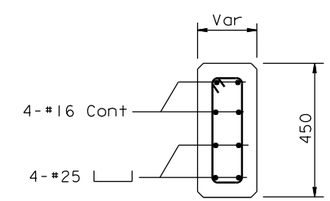
DETAIL F
1:25



SECTION G-G
1:10



SECTION H-H
1:10



SECTION K-K
1:10

The following are review comments for this sheet

1. There should be a block with the following inscription above the CCO Revision blocks.
" REQUEST FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE"

2. Since there are no dimensions for the cable tray openings on this sheet a note should be added to reference the location of the required dimensions. The location of the dimensions are on sheet E-20E and E21E.

MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
0	01/09/08	CABLE TRAY CHANGES	TH	JD	42S1

REVISIONS

CONTRACT CHANGE ORDER NO. _____
SHEET ____ OF ____

NOTES:

1. For utility cable trays, location of openings and embed strut channel, see "Road Plans".

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

100 % PS&E

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 01/09/08

	BY	CHECKED
DESIGN	T. Ho	J. Duxbury
DETAILS	T. Ho	J. Duxbury
QUANTITIES	T. Ho	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)

PIER W2 DETAILS NO. 6A

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 01/09/08

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET 35S1 OF

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USERNAME => ptom DATE PLOTTED => 09 JAN 2008 TIME PLOTTED => 14:24:32

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	631S1	1204

Caltrans Metric

Daniel J. Turner
REGISTERED ENGINEER - CIVIL
01-09-08
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Daniel J. Turner No. C 65033 Exp. 06/30/09 CIVIL STATE OF CALIFORNIA

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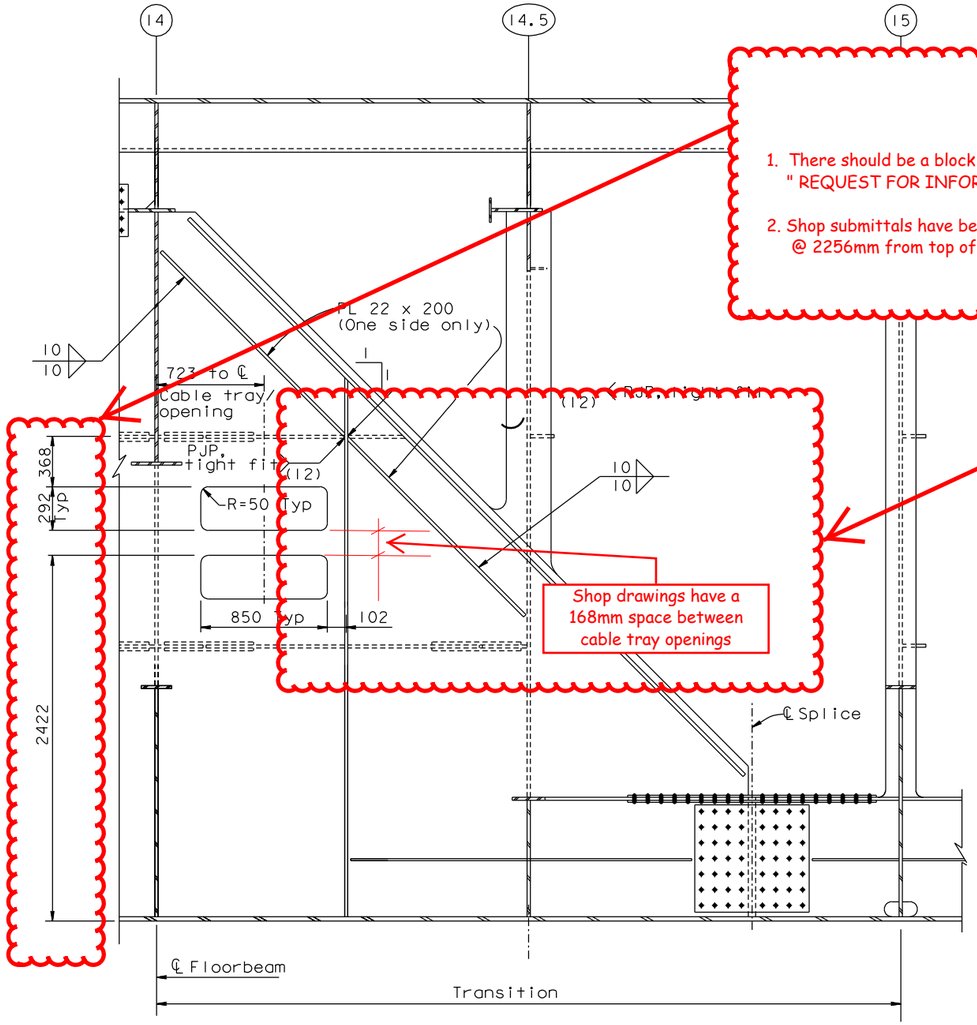
1. There should be a block with the following inscription above the CCO Revision blocks.
   " REQUEST FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE"

2. Shop submittals have been approved with openings with a 168 mm space between openings and the bottom opening @ 2256mm from top of bottom plate. The dimensions on this sheet need to be reviewed and verified.



LONGITUDINAL SHEAR PLATE ELEVATION (PP14 to PP15)

1:20 (See Note 1)

MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
0	01/09/08	CABLE TRAY CHANGES	DT	GB	42S1

REVISIONS

CONTRACT CHANGE ORDER NO. _____
SHEET ____ OF ____

NOTES:

1. For Details not shown, see "Typical Girder Details No. 7" sheet.

100 % PS&E

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

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

TYPICAL GIRDER DETAILS NO. 7A

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
Roya Valizadeh / Vong Toan / Y. Liu
SIGN OFF DATE 01/09/08

	BY	CHECKED
DESIGN	D. Turner	G. Baker
DETAILS	D. Turner	G. Baker
QUANTITIES	D. Turner	G. Baker

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

R. Manzanarez
PROJECT ENGINEER

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

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 → 01/09/08

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET 214S1 OF

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TIME PLOTTED => 14:26:10

MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
1	01/09/08	CABLE TRAY CHANGES	GB	DT	42S1

REVISIONS

CONTRACT CHANGE ORDER NO. ____
SHEET ____ OF ____

FOR REVISIONS ONLY

Daniel J. Turner
REGISTERED PROFESSIONAL ENGINEER
Daniel J. Turner
No. C 65033
Exp. 06/30/09
CIVIL
STATE OF CALIFORNIA

Caltrans Metric

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	706R1	1204

George Baker
REGISTERED ENGINEER - CIVIL
12-6-04
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
George S. Baker
No. C 57112
Exp. 12/31/05
CIVIL
STATE OF CALIFORNIA

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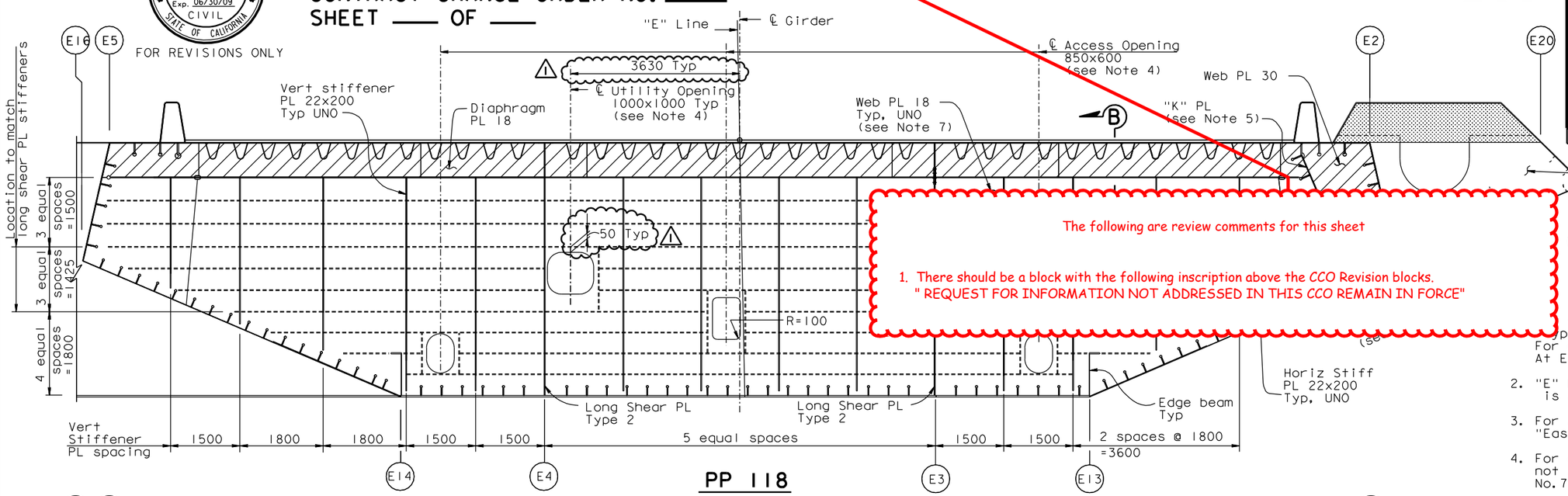
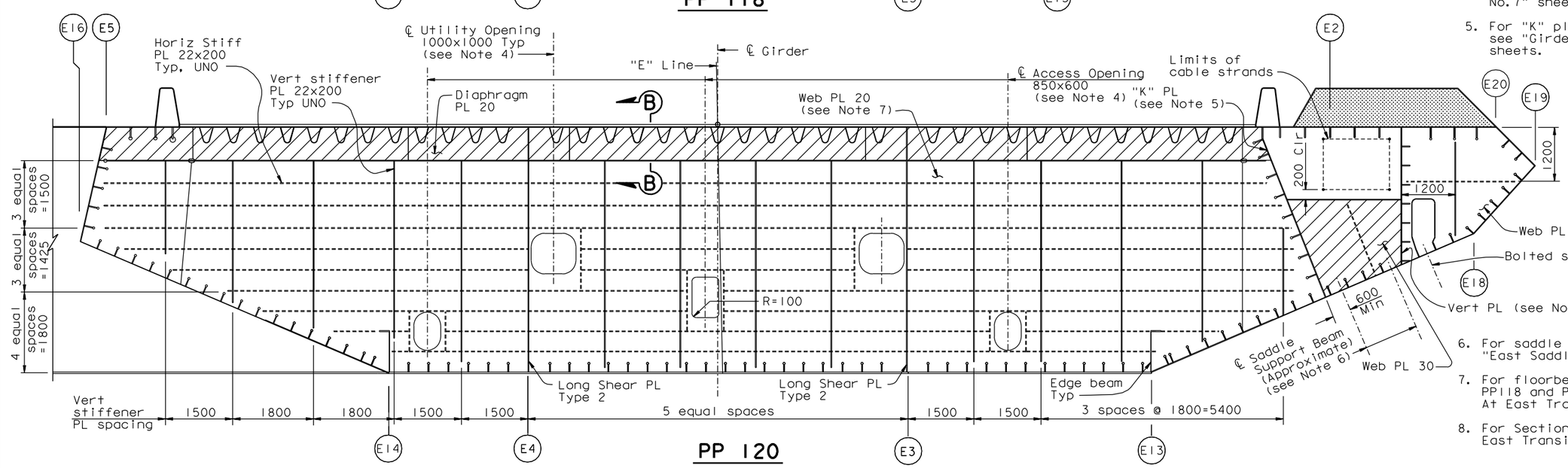


PP 118

The following are review comments for this sheet

1. There should be a block with the following inscription above the CCO Revision blocks.
" REQUEST FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE"



PP 120

"E" LINE SECTION (see Note 2)

1:50

floorbeam details not shown, see "Typical Floorbeam Details No.1" sheet. For dimensions not shown, see "Girder At East Transition" sheets.

2. "E" Line girder is shown, "W" Line girder is similar.

3. For saddle housing details, see "East Saddle Housing Details" sheets.

4. For details of access and utility opening not shown, see "Typical Girder Details No.7" sheet, similar.

5. For "K" plate and vertical plate details, see "Girder At East Transition Details" sheets.

LEGEND:

Saddle Housing (see Note 3)

"Indicates SPCM web plate"

6. For saddle support beams details, see "East Saddle Details No.7" sheet.

7. For floorbeam web plate details at PP118 and PP120, see "Floorbeam At East Transition Details No.2" sheet.

8. For Section B-B, see "Floorbeam At East Transition Details No.1" sheet.

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 01/09/08

	BY	CHECKED
DESIGN	G. Baker	P. Ritchie
DETAILS	S. Camo	T. McMeans
QUANTITIES	C. Mauch	M. Roberts

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)

FLOORBEAM AT EAST TRANSITION NO.2

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) 01/15/99 05/15/99 08/02/99 05/31/01 04/08/02 07/01/02 12/19/02

SHEET 289R1 OF

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USERNAME => ptram DATE PLOTTED => 09 JAN 2008 TIME PLOTTED => 09:36:20

100 % PS&E

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	964R1	1204

Caltrans Metric

George Baker
REGISTERED ENGINEER - CIVIL
1-27-03
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER George S. Baker No. C57112 Exp. 12/31/05 CIVIL STATE OF CALIFORNIA

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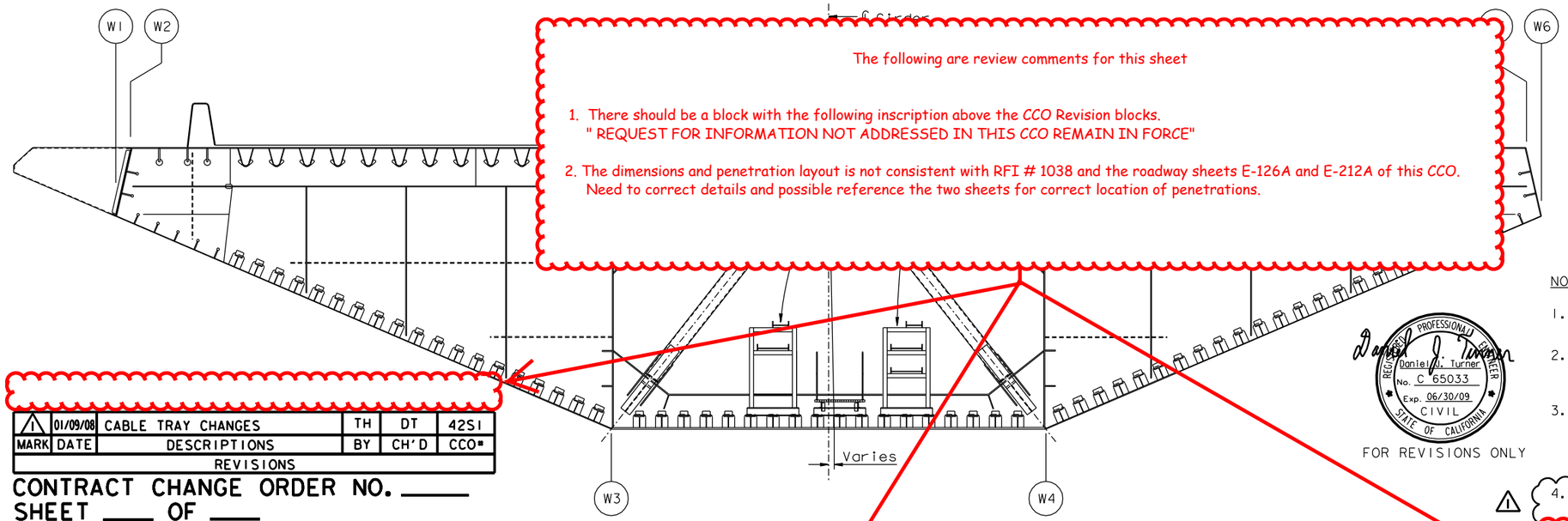
The following are review comments for this sheet

1. There should be a block with the following inscription above the CCO Revision blocks.
   " REQUEST FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE"
2. The dimensions and penetration layout is not consistent with RFI # 1038 and the roadway sheets E-126A and E-212A of this CCO. Need to correct details and possible reference the two sheets for correct location of penetrations.



MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
1	01/09/08	CABLE TRAY CHANGES	TH	DT	42S1

REVISIONS

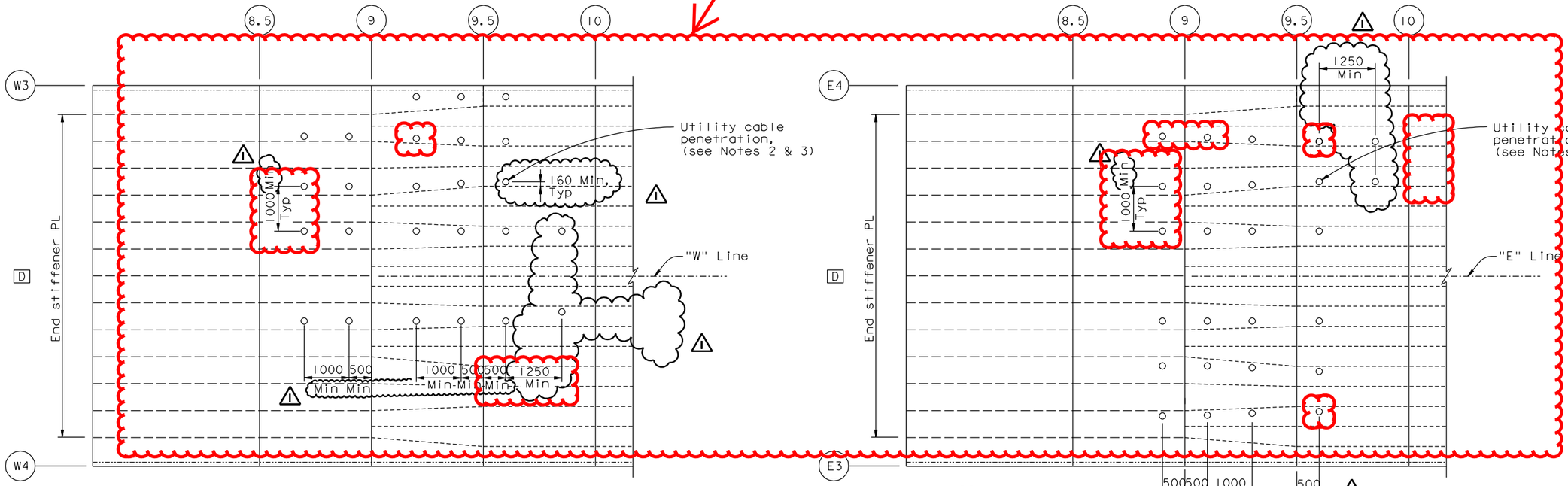
CONTRACT CHANGE ORDER NO. ____
SHEET ___ OF ___

TYPICAL SECTION ("W" LINE SHOWN, "E" LINE SIMILAR)
1:50

Daniel J. Turner
REGISTERED PROFESSIONAL ENGINEER Daniel J. Turner No. C 65033 Exp. 06/30/09 CIVIL STATE OF CALIFORNIA
FOR REVISIONS ONLY

NOTES:

1. For details of utility support frames, see "Road Plans" sheets.
2. For details of utility cable penetrations, see "Utility Details No.1" sheet. For cable diameters and fittings, see "Road Plans" sheets.
3. For utility cable penetrations closer than 1 m c-c spacing doubler plates shall be used at all such cutouts. For details see "Duct Opening Detail" on "Dehumidification Support Details No.5" sheet.
4. Minimum spacing shown may be reduced as approved by the Engineer.
5. For exact utility duct locations see "Typical Tray and Conduit Installation at Pier W2W" and "Typical Tray and Conduit Installation at Pier W2E" sheets.



UTILITY DUCTS THROUGH GIRDER FACE D AT PIER W2 (See Notes 4 & 5)
1:50

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

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

UTILITY LAYOUT

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
Roya Valizadeh / Vona Toan / Y. Liu
SIGN OFF DATE 01/09/08

	BY	CHECKED
DESIGN	G. Baker	T. Ho
DETAILS	M. Gulyas	T. Ho
QUANTITIES	C. Mauch	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

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): 05/06/99 08/02/99 05/31/01 04/08/02 07/01/02 12/19/02

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