| DIST. | COUNTY | ROUTE | KILOMETER POST TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | SF | 80 | 13.2/13.9 | 834R7 | 1204 |

REGISTERED ENGINEER - CIVIL

12-6-04
PLANS APPROVAL DATE

Tien Hung Ho, No. C 43990, Exp. 6/30/13, CIVIL, REGISTERED PROFESSIONAL ENGINEER, STATE OF CALIFORNIA

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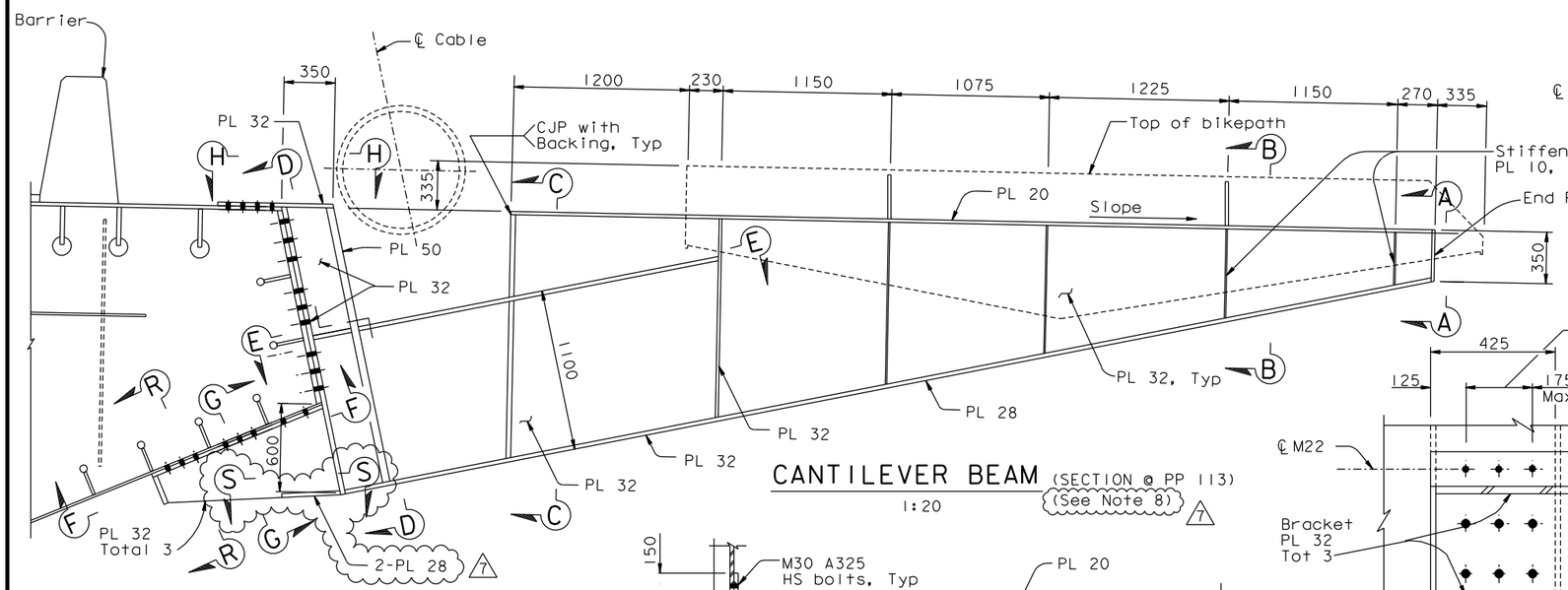
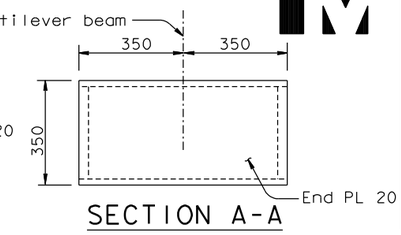
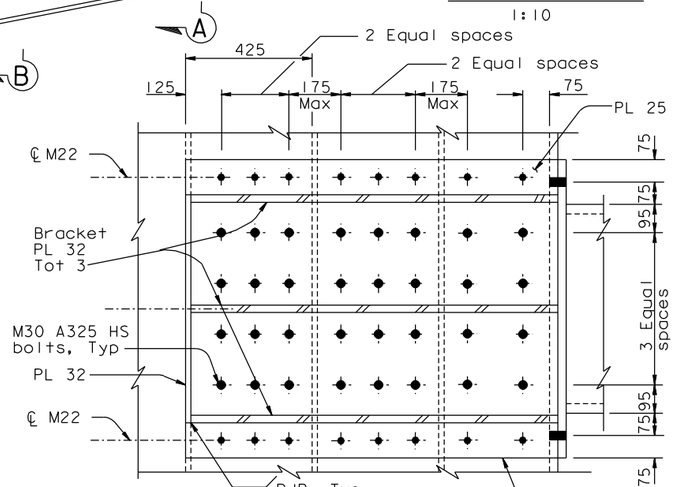



CANTILEVER BEAM (SECTION @ PP 113) (See Note 8) 7
1:20




SECTION A-A
1:10

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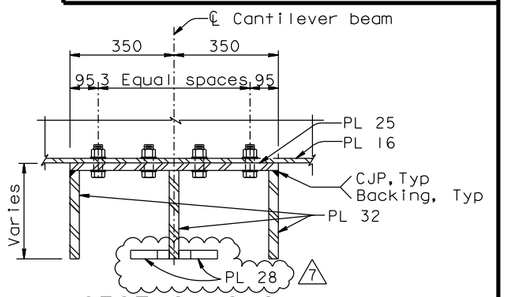


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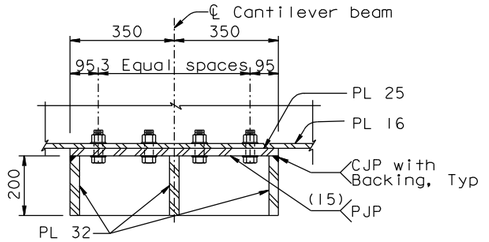


SECTION R-R
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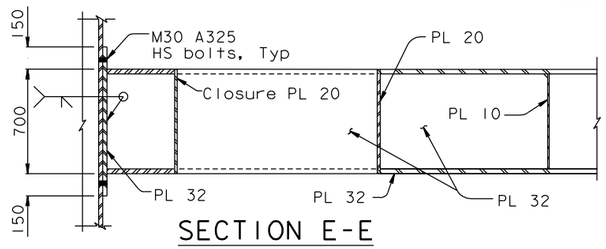


SECTION E-E
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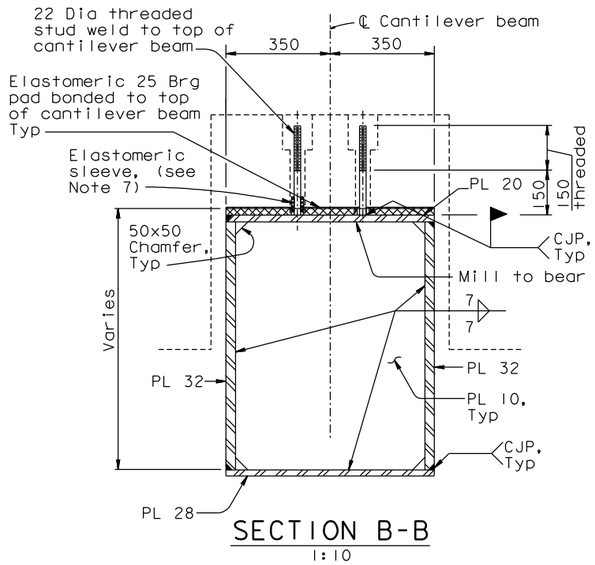


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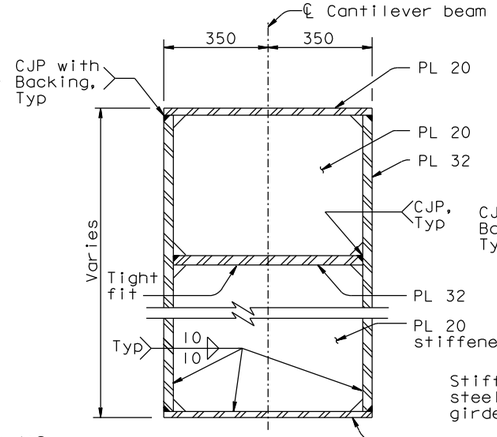


SECTION C-C
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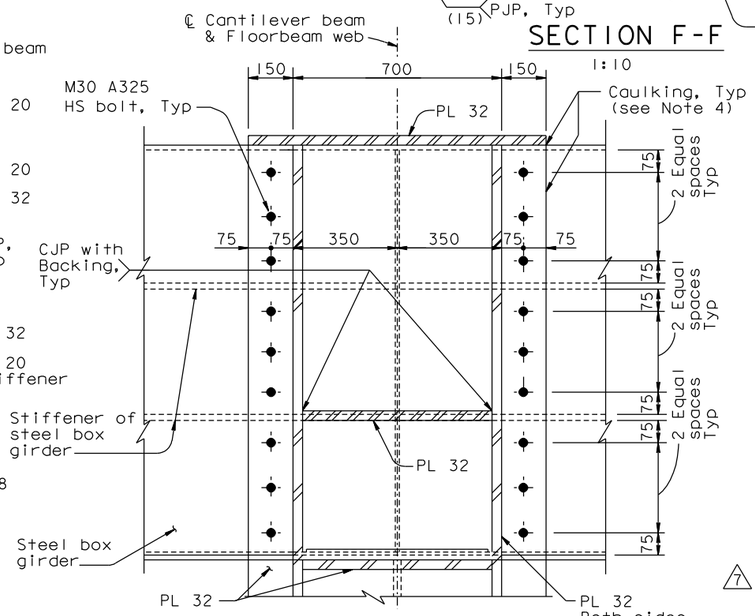


SECTION D-D
1:10

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

NOTES:

1. The cable location shown is based on the information provided in "Suspension Cable Layout" sheets. The Contractor shall verify these locations based on the "as built" cable profile described in "Construction Sequence" sheets. In the event of a conflict, bikepath bracket details may be revised and submitted to the Engineer for review and approval.
2. Bikepath deck similar to typical bikepath deck, for details, see "Bikepath Details No.3" sheets.
3. For Section H-H, see Section F-F of "Bikepath Details No.11" sheet.
4. Caulking shall be provided along all edges of bolted connection between bikepath cantilever beam and box girder.
5. Note deleted.
6. Note Deleted.
7. For elastomeric sleeve detail, see "Bikepath Details No.4A" sheet.
7. 8. For Section S-S, see "Bikepath Details No.13A" sheet.

CONTRACT CHANGE ORDER NO. ____
SHEET ____ OF ____

REQUESTS FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE

| MARK | DATE | DESCRIPTIONS | BY | CH'D | CCO# |
|---|---|---|---|---|---|
| 7 | 01/20/12 | BIKEPATH CANTILEVER BEAM MODIFICATIONS | DT | TH | 233 |
| 6 | 08/10/11 | BIKEPATH PAD REVISIONS | GB | TH | 211 |
| 5 | 01/25/11 | BIKEPATH STUD ISSUE | TH | CC | 186 |
| 4 | 08/20/10 | BIKEPATH DETAILS | TH | CC | 99 |
| 3 | 12/23/08 | BIKEPATH DETAILS | TH | MN | 99 |
| 2 | 07/07/08 | CAULKING | AS | TH | 66 |
| 1 | 07/20/07 | BIKEPATH BRACKETS | GB | TH | 33 |

REVISIONS

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
Reza Valizadeh / Vong Toan / Y. Liu
SIGN OFF DATE 01/20/12

| | BY | CHECKED |
|---|---|---|
| DESIGN | T. Ho | T. McMeans |
| DETAILS | R. Xu | P. Ritchie |
| QUANTITIES | C. Bernardo | S. Shi |

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)

# BIKEPATH 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): 05/31/01 | 04/08/02 | 07/01/02 | 12/19/02

SHEET 417R7 OF

FILE => I:\bb\04-012001\sas\contract plans and cco\cco\cco#233\1-original 01-20-12\dgn\agbwd10.dgn

100% PS&E
TIME PLOTTED => 11:53:20
DATE PLOTTED => 20 JAN 2012
USERNAME => DWinrow

| DIST. | COUNTY | ROUTE | KILOMETER POST TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | SF | 80 | 13.2/13.9 | 835R5 | 1204 |

Caltrans Metric

REGISTERED ENGINEER - CIVIL

12-6-04
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Tien Hung Ho — No. C 43990 — Exp. 6/30/13 — CIVIL — STATE OF CALIFORNIA

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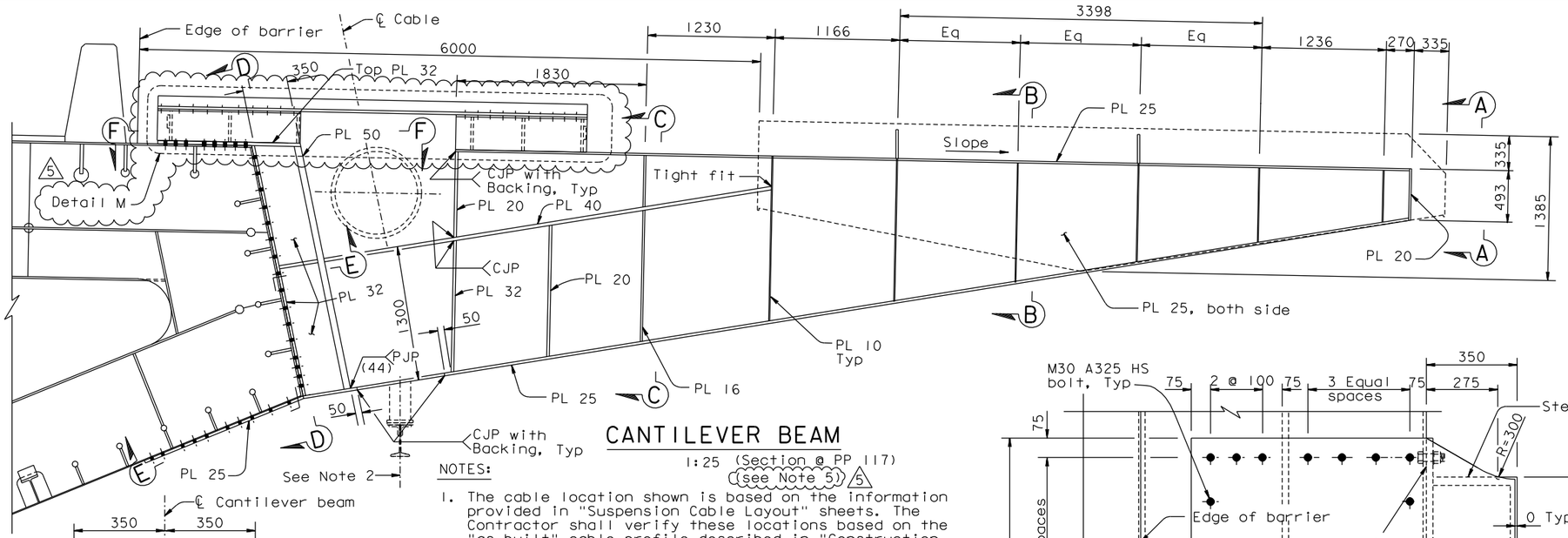


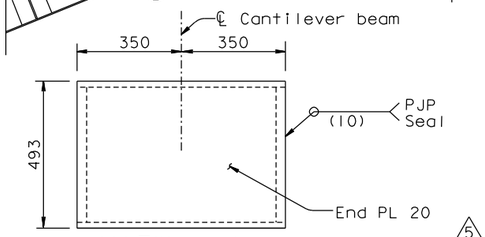

## CANTILEVER BEAM

1:25 (Section @ PP 117)

(See Note 5) △5

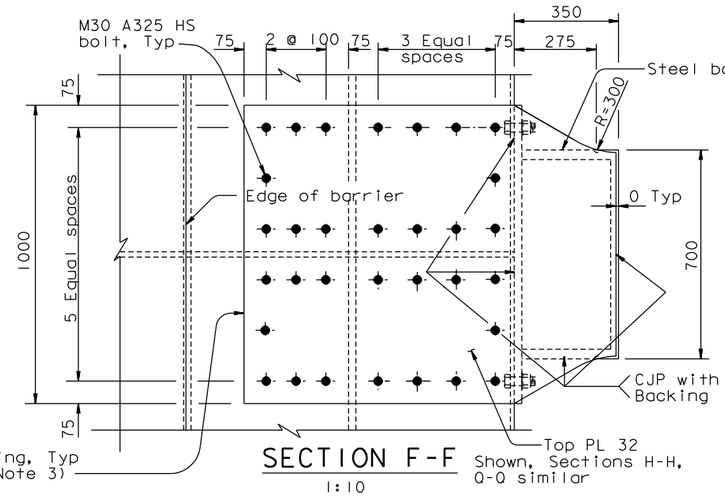
NOTES:

1. The cable location shown is based on the information provided in "Suspension Cable Layout" sheets. The Contractor shall verify these locations based on the "as built" cable profile described in "Construction Sequence" sheets. In the event of a conflict, bikepath bracket details may be revised and submitted to the Engineer for review and approval.
2. For location and details of traveler rail support, see "Traveler Rail Details No.13" sheet.
3. Caulking shall be provided along all edges of bolted connection between bikepath cantilever beam and box girder.
4. For elastomeric sleeve detail, see "Bikepath Details No.4A" sheet.
5. For Detail M, see "Bikepath Details No.13A" sheet.



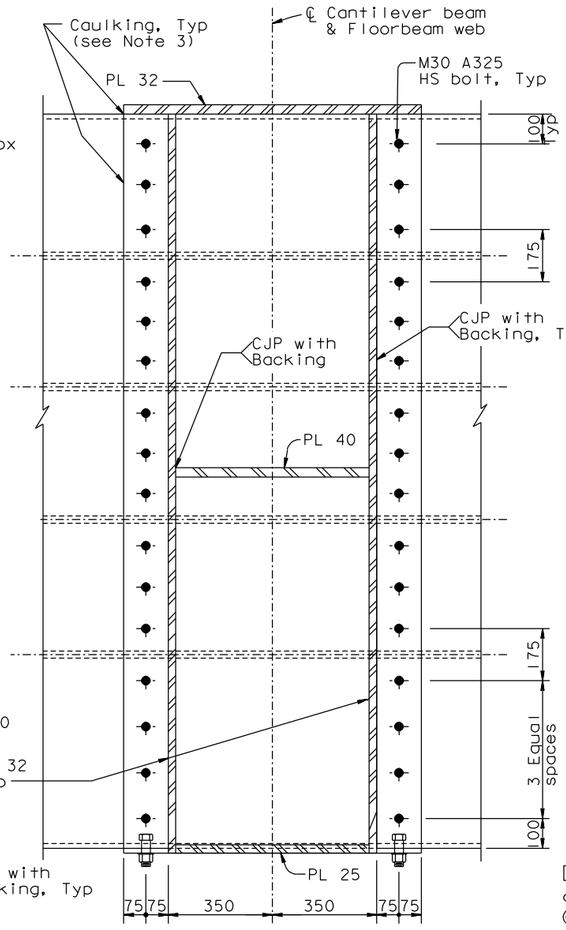

## VIEW A-A

1:10



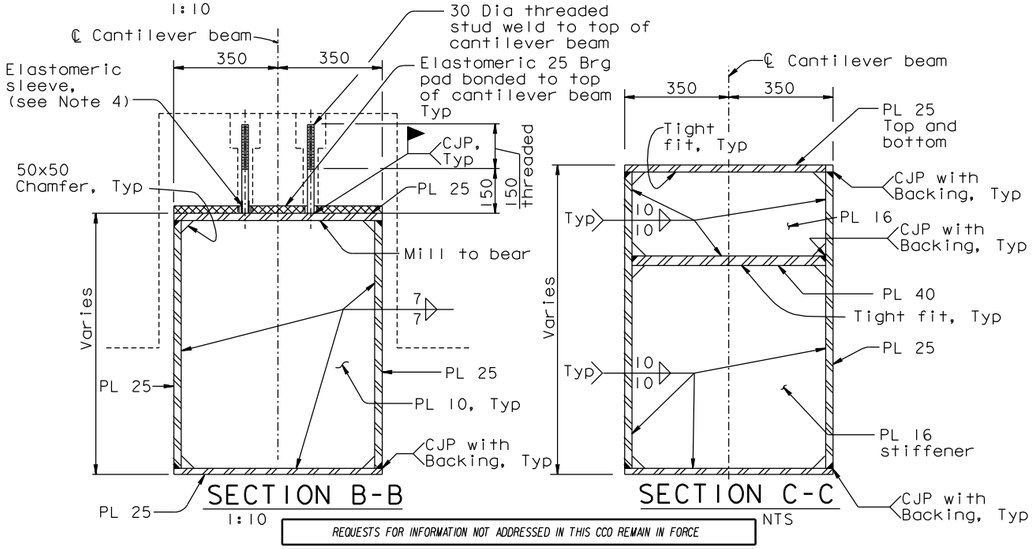

## SECTION F-F

1:10




## SECTION D-D

1:10

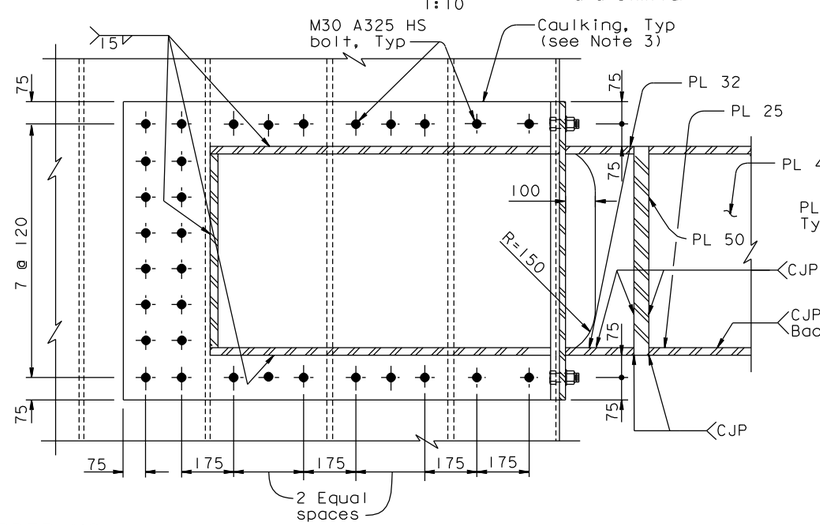



## SECTION B-B

1:10

## SECTION C-C

NTS




## SECTION E-E

1:10

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

REQUESTS FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE

| MARK | DATE | DESCRIPTIONS | BY | CH'D | CCO# |
|---|---|---|---|---|---|
| REVISIONS | | | | | |
| △5 | 01/20/12 | BIKEPATH CANTILEVER BEAM MODIFICATIONS | DT | TH | 233 |
| △4 | 01/25/11 | BIKEPATH STUD ISSUE | TH | CC | 186 |
| △3 | 08/20/10 | BIKEPATH DETAILS | TH | CC | 99 |
| △2 | 07/07/08 | CAULKING | AS | TH | 66 |
| △1 | 07/20/07 | BIKEPATH BRACKETS | GB | TH | 33 |

CONTRACT CHANGE ORDER NO. ____
SHEET ___ OF ___

| | BY | CHECKED |
|---|---|---|
| DESIGN | T. Ho | T. McMeans |
| DETAILS | R. Xu | P. Ritchie |
| QUANTITIES | C. Bernardo | S. Shi |

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

R. Manzanarez
PROJECT ENGINEER

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

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 01/20/12

Rev. Date: 5-18-98

CU 04
EA 0120F1

DISREGARD PRINTS BEARING EARLIER REVISION DATES → REVISION DATES (PRELIMINARY STAGE ONLY): 05/24/01 | 04/08/02 | 07/01/02 | 12/18/02 | 11/13/05

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

# BIKEPATH DETAILS NO. 11

SHEET 418R5 OF

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

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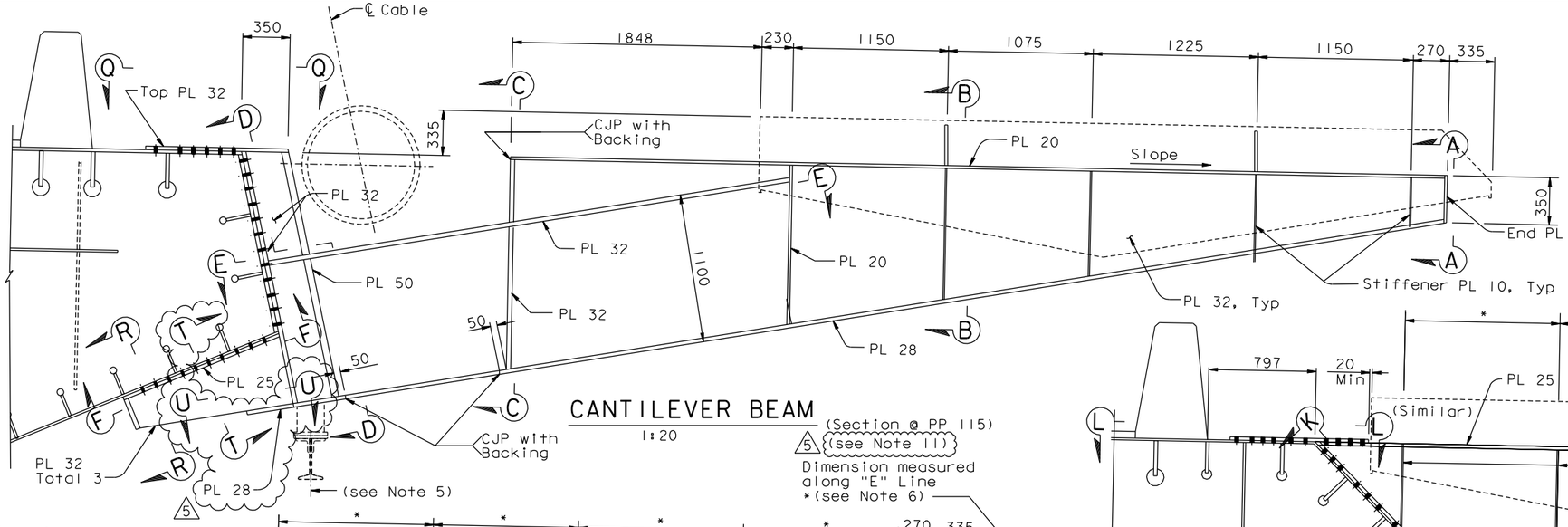



## CANTILEVER BEAM

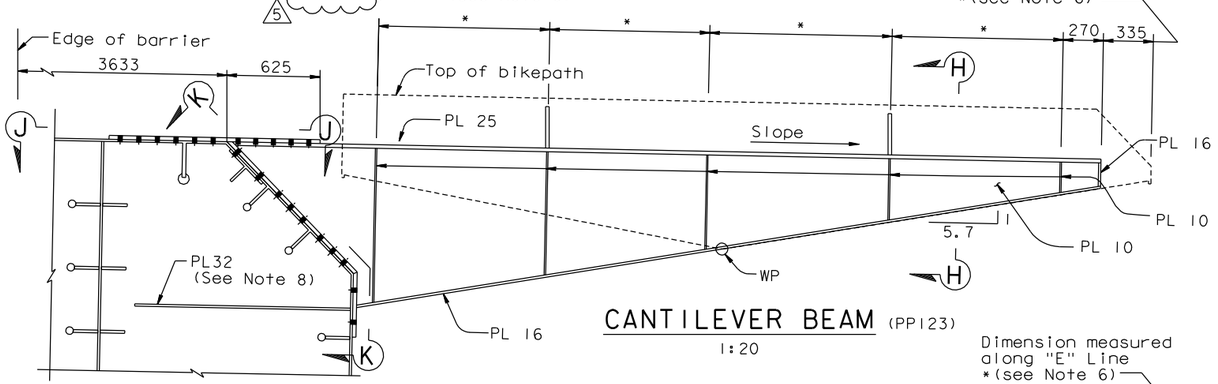
1:20

(Section @ PP 115)

5 (see Note 11)

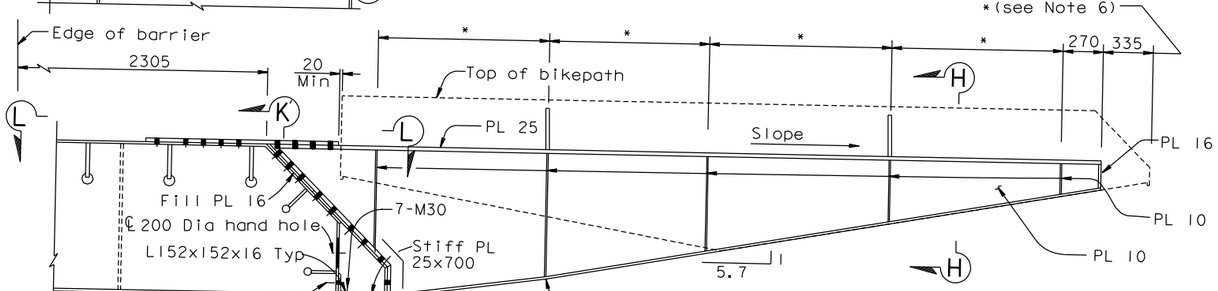
Dimension measured along "E" Line

*(see Note 6)




## CANTILEVER BEAM (PP123)

1:20




## CANTILEVER BEAM (PP125)

1:20

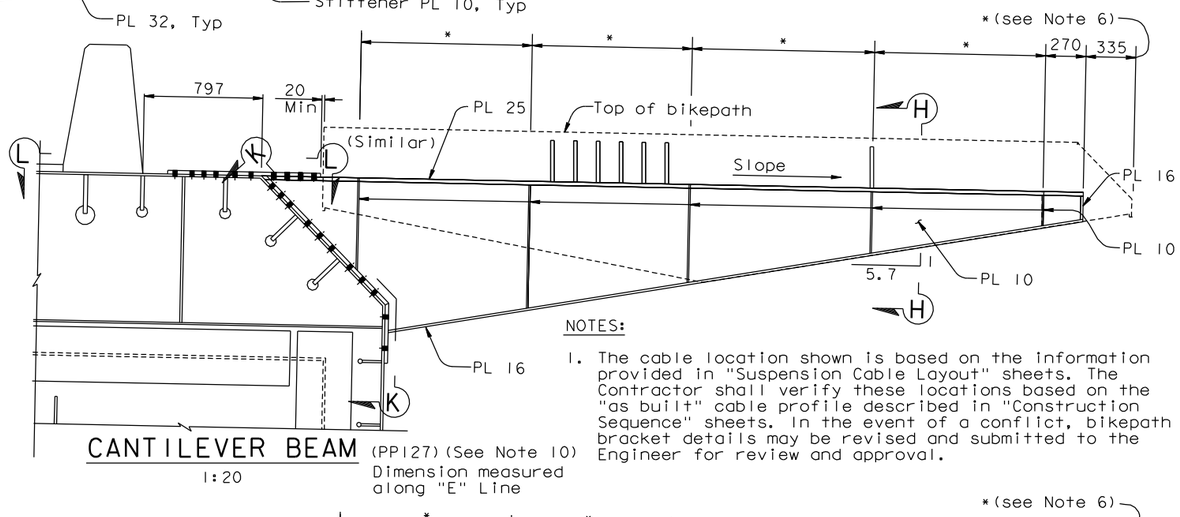
CONTRACT CHANGE ORDER NO. ____

SHEET ___ OF ___

REQUESTS FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE

| | | | | | |
|---|---|---|---|---|---|
| 5 | 01/20/12 | BIKEPATH CANTILEVER BEAM MODIFICATIONS | DT | TH | 233 |
| 4 | 08/20/10 | BIKEPATH DETAILS | CC | TH | 99 |
| 3 | 10/23/09 | BIKEPATH DETAILS | TH | MN | 99 |
| 2 | 11/26/08 | BIKEPATH DETAILS | TH | MN | 99 |
| 1 | 07/20/07 | BIKEPATH BRACKETS | GB | TH | 33 |
| MARK | DATE | DESCRIPTIONS | BY | CH'D | CCO# |

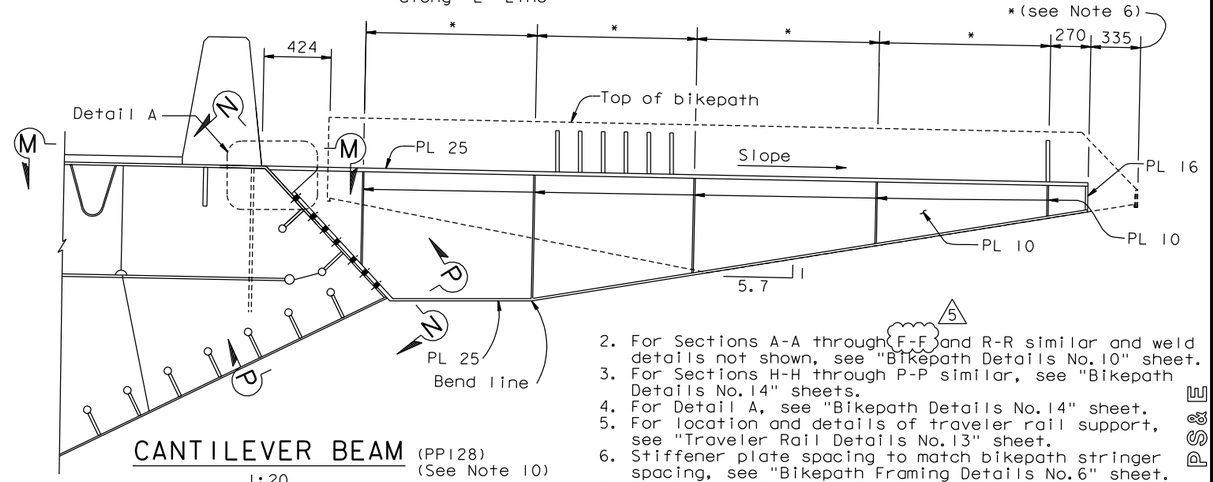
REVISIONS




## CANTILEVER BEAM (PP127) (See Note 10)

1:20

Dimension measured along "E" Line




## CANTILEVER BEAM (PP128) (See Note 10)

1:20

Dimension measured along "E" Line

5 11. For Sections T-T & U-U, see "Bikepath Details No.13A" sheet.

NOTES:

1. The cable location shown is based on the information provided in "Suspension Cable Layout" sheets. The Contractor shall verify these locations based on the "as built" cable profile described in "Construction Sequence" sheets. In the event of a conflict, bikepath bracket details may be revised and submitted to the Engineer for review and approval.
2. For Sections A-A through F-F and R-R similar and weld details not shown, see "Bikepath Details No.10" sheet.
3. For Sections H-H through P-P similar, see "Bikepath Details No.14" sheets.
4. For Detail A, see "Bikepath Details No.14" sheet.
5. For location and details of traveler rail support, see "Traveler Rail Details No.13" sheet.
6. Stiffener plate spacing to match bikepath stringer spacing, see "Bikepath Framing Details No.6" sheet.
7. For Section Q-Q, see Section F-F of "Bikepath Details No.11" sheet.
8. For bikepath bracket stiffener, see Note 6 on "Floorbeam At East Transition No.5" sheet.
9. For nut keeper details, see "West Jacking Frame Details No.1" sheet.
10. For information not shown, See "Bikepath Details No.17, 18 & 19" sheets.

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

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| DIST. | COUNTY | ROUTE | KILOMETER POST TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | SF | 80 | 13.2/13.9 | 837R5 | 1204 |

REGISTERED ENGINEER - CIVIL

Registered Professional Engineer — Tien Hung Ho — No. C 43990 — Exp. 06/30/13 — CIVIL — State of California

12-6-04

PLANS APPROVAL DATE

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R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 01/20/12

| | BY | CHECKED |
|---|---|---|
| DESIGN | T. Ho | T. McMeans |
| DETAILS | R. Xu | P. Ritchie |
| QUANTITIES | C. Bernardo | S. Shi |

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)

# BIKEPATH DETAILS NO. 13

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): 05/31/01 04/30/02 07/01/02 12/16/02 11/13/05

SHEET 420R5 OF

FILE => I:\bb\04-012001\sas\contract plans and cco\cco\cco#233\1-original 01-20-12\dgn\agbwdl3.dgn

| DIST. | COUNTY | ROUTE | KILOMETER POST TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | SF | 80 | 13.2/13.9 | 837SI | 1204 |

REGISTERED ENGINEER - CIVIL

01-20-12
PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER
Marwan N. Nader
No. C 054426
Exp. 12/31/13
CIVIL
STATE OF CALIFORNIA

T.Y. LIN / MOFFATT & NICHOL
825 BATTERY STREET
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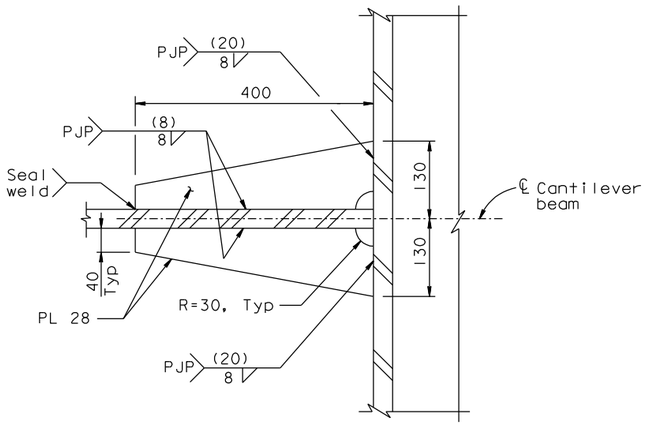
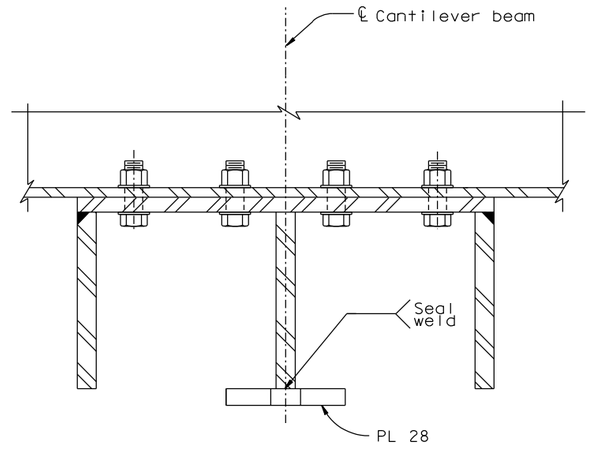
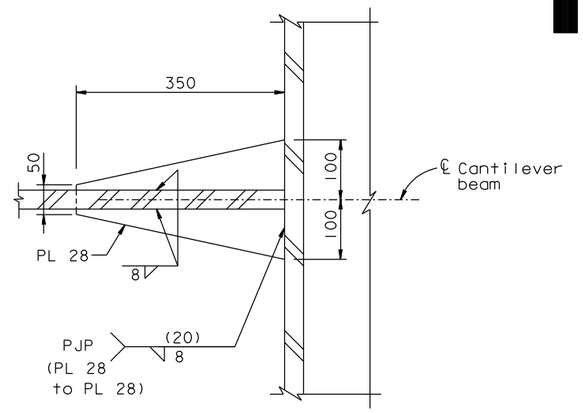


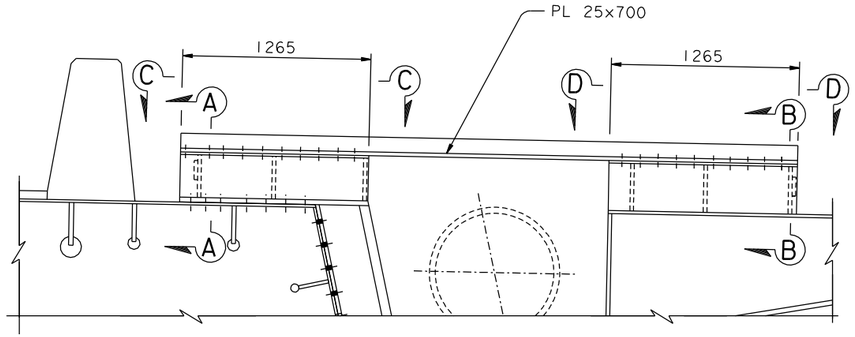

SECTION S-S
1:5



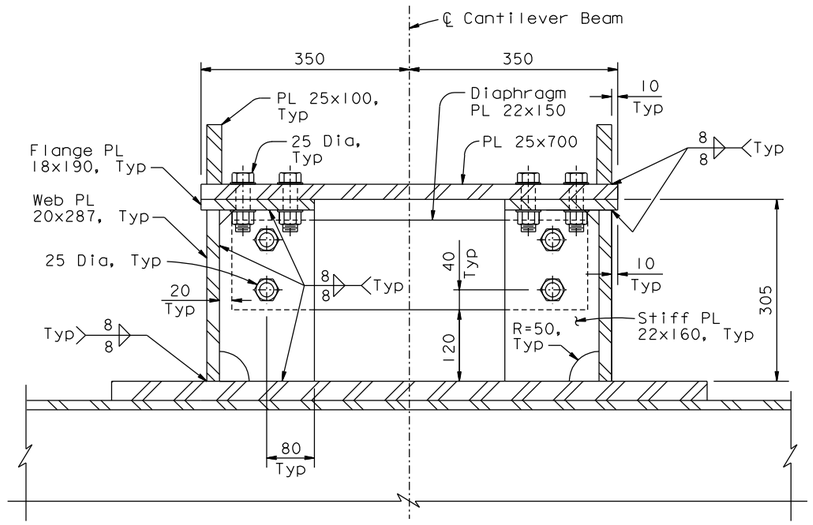

SECTION T-T
1:5



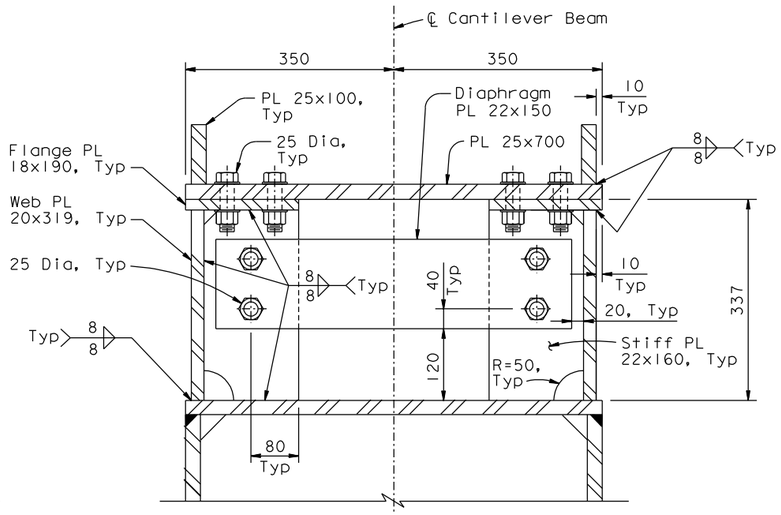

SECTION U-U
1:5




DETAIL M
1:20




SECTION A-A
1:5




SECTION B-B
1:5

NOTES:

1. At PP117 web, flange and stiffener plates shall be shop-installed on the cantilever beam and top PL 32 on the OBG.
2. PL 25s and diaphragm plates shall be field-bolted to the flange plates after the cantilever beam is bolted to the OBG, and prior to installation of bikepath panels between PP115 and PP121.
3. For Sections C-C and D-D, see "Bikepath Details No.13B" sheet.

CONTRACT CHANGE ORDER NO. ____
SHEET ____ OF ____

*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 01/20/12

| MARK | DATE | DESCRIPTIONS | BY | CH'D | CCO# |
|---|---|---|---|---|---|
| 0 | 01/20/12 | BIKEPATH CANTILEVER BEAM MODIFICATIONS | DT | MN | 233 |

REVISIONS

| | BY | CHECKED |
|---|---|---|
| DESIGN | D. Turner | M. Nader |
| DETAILS | D. Turner | H. Tazir |
| QUANTITIES | D. Turner | H. Tazir |

**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)

# BIKEPATH DETAILS NO. 13A

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 →

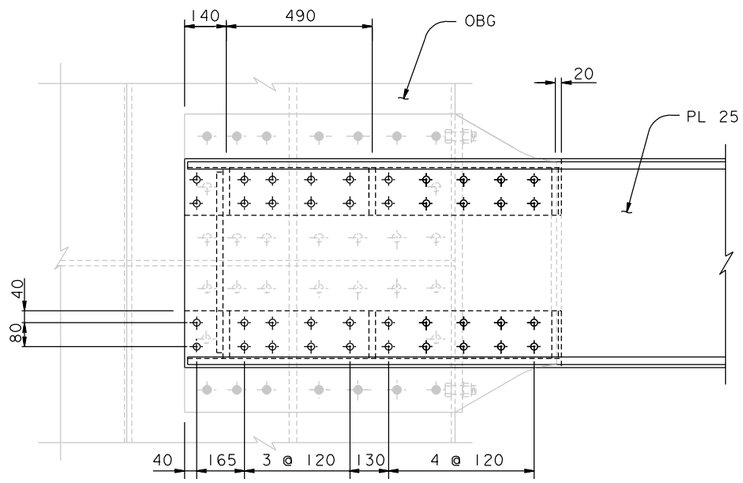
REVISION DATES (PRELIMINARY STAGE ONLY): 01/20/12

SHEET 420SI OF

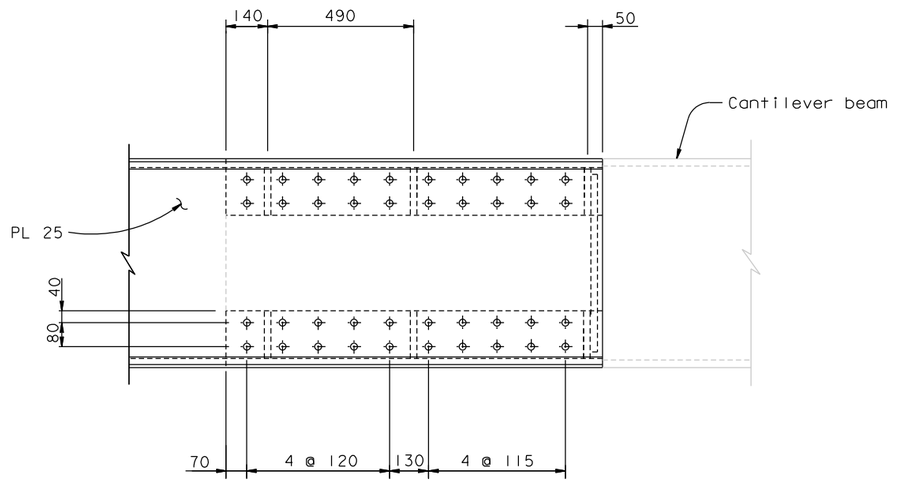
FILE => I:\bb\04-01200I\sas\contract plans and cco\cco\cco#233\1-original 01-20-12\dgn\agbwdl3a.dgn

USERNAME => DWinrow DATE PLOTTED => 20 JAN 2012 TIME PLOTTED => 11:49:11

100 % PS&E




SECTION C-C
1:10




SECTION D-D
1:10

| DIST. | COUNTY | ROUTE | KILOMETER POST TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | SF | 80 | 13.2/13.9 | 837S2 | 1204 |

REGISTERED ENGINEER - CIVIL

01-20-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Marwan N. Nader
No. C 054426
Exp. 12/31/13
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*

100% PS&E

TIME PLOTTED => 11:47:40
DATE PLOTTED => 20 JAN 2012
USERNAME => DWinrow

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 01/20/12

| MARK | DATE | DESCRIPTIONS | BY | CH'D | CCO# |
|---|---|---|---|---|---|
| 0 | 01/20/12 | BIKEPATH CANTILEVER BEAM MODIFICATIONS | DT | MN | 233 |

REVISIONS

| | BY | CHECKED |
|---|---|---|
| DESIGN | D. Turner | M. Nader |
| DETAILS | D. Turner | H. Tazir |
| QUANTITIES | D. Turner | H. Tazir |

**PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION**

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

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)

# BIKEPATH DETAILS NO. 13B

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): 01/20/12

SHEET 420S2 OF

FILE => I:\bb\04-01200I\sas\contract plans and cco\cco\cco#233\I-original 01-20-12\dgn\agbwdI3b.dgn