DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	474R1	1204

REGISTERED ENGINEER - CIVIL

12-6-04
PLANS APPROVAL DATE

PROFESSIONAL ENGINEER — John Sun — No. C 54648 — Exp. 12/31/05 — CIVIL — STATE OF CALIFORNIA

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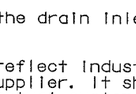
GENERAL:

1. For "W2 Cap Beam Reinforcement Details" sheets, the Contractor shall verify all controlling field dimensions before ordering or fabricating any material. Reinforcement details reflect strict adherence to the location of pier column reinforcement defined on "Pier W2 Details No. 5" sheet.
2. Spacing dimensions are plumb unless noted otherwise.
3. Reinforcement spacing may be adjusted to avoid PT ducts if required.
4. Contractor shall adjust reinforcing to account for slope transitions, overhangs, and blockouts.
5. Contractor may adjust location of the drain inlets to avoid interference with reinforcing and/or PT ducts.
6. Post-Tensioning anchorage details reflect industry standard geometry. Actual dimensions may vary depending on supplier. It shall be the Contractor's responsibility to accommodate the actual system to the plan geometry.
7. Local confining spiral reinforcement for tendon anchors shall be provided by PT tendon hardware suppliers; not shown for clarity.
8. Contractor shall remove the corrosion protection from all reinforcing above the pier top slab prior to pouring the W2 cap beam concrete.
9. Adequate fabrication and placement of all permanently embedded items may require more stringent tolerances than ordinary industry standards. It shall be the Contractor's responsibility to ascertain the adequate fabrication and placement of all permanently embedded items within the geometric constraints of the plans.

CROSS-REFERENCES:

1. For tie-down cable top access slab reinforcement details, see "Cable Tie-Down Details" sheets.
2. For bikepath connection details, see "Bikepath Details" sheets.
3. For blockout reinforcement, see "W2 Cap Beam Blockout Details" sheets.
4. For epoxy AC overlay limits, see "W2 Cap Beam Reinforcement Details No. 49" sheet.
5. For jacking frame blocking, see "West Jacking Frame Details" sheets.
6. For layer identification, see "W2 Cap Beam Reinforcement Details No. 6, No. 16, No. 22 and No. 25" sheets.

DETAILS:

1. All reinforcing steel shall be ASTM A706, Grade 420.
2. Typical clear cover to skin reinforcement is 80 mm.
3. Typical clearance between reinforcement and embeds, PT and blockouts is 80 mm.
4. Non-Contact Splice:
   a. Max non-contact lap splice=150 mm 

   b. Min lap length for #19 = 500 mm
   c. Min lap length for #25 = 1100 mm
   d. Min lap length for #29 = 1500 mm
5. Locations of bar lap splices and/or mechanical splices not shown for clarity.
6. At the Contractor's option, lapped reinforcement shown on the plans may be substituted with continuous reinforcement.

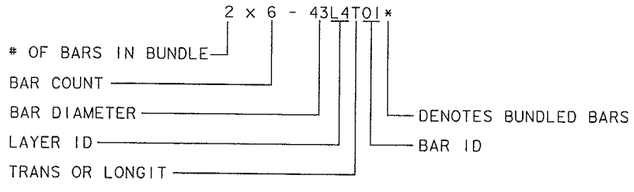
REINFORCEMENT INDEX:

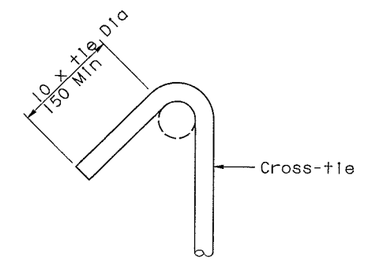
1. For top mat reinforcement, see "W2 Cap Beam Reinforcement Details No. 2 to No. 8" sheets.
2. For bottom mat reinforcement, see "W2 Cap Beam Reinforcement Details No. 9 to No. 18" sheets.
3. For transverse reinforcement, see "W2 Cap Beam Reinforcement Details No. 19 to No. 25" sheets.
4. For diaphragm reinforcement, see "W2 Cap Beam Reinforcement Details No. 26 to No. 29" sheets.
5. For jacking saddle reinforcement, see "W2 Cap Beam Reinforcement Details No. 30 to No. 33" sheets.
6. For skin reinforcement, see "W2 Cap Beam Reinforcement Details No. 34 to No. 39" sheets.
7. For horizontal and vertical stirrup reinforcement, see "W2 Cap Beam Reinforcement Details No. 40 to No. 43" sheets.
8. For column region reinforcement, see "W2 Cap Beam Reinforcement Details No. 44 to No. 47" sheets.
9. For miscellaneous reinforcement, see "W2 Cap Beam Reinforcement Details No. 48 to No. 49" sheets.
10. For barlist and schedules, see "W2 Cap Beam Reinforcement Details No. 50 to No. 52" sheets.

BARLIST SCHEDULES:

Barlist schedules are provided for general guidance, and shall not be used as a basis for quantity estimates. Information provided in "W2 Cap Beam Reinforcement Details" sheets and "W2 Cap Beam Blockout Details" sheets shall govern the Barlist schedules. The Contractor shall reference these plans to develop barlist schedules for quantity estimation. Barlist schedules shall not be used for fabrication purposes. Final weights, lengths, and geometries shall be the responsibility of the Contractor.

KEY TO BAR NOMENCLATURE:





135° SEISMIC TIE HOOK
No scale

LEGEND:

- Denotes headed bar reinforcement
- ⊗ ⊠ Denotes opening
- Symmetric

ABBREVIATIONS

ES	Each Side
Longit	Longitudinal
Nom	Nominal
Opp	Opposite
Spa	Spaces
Trans	Transverse
Var	Varies

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FOR REVISIONS ONLY

MARK	DATE	REVISIONS	BY	CH'D
1	05/22/06	W2 CAP BEAM ISD	JD	AS

CONTRACT CHANGE ORDER NO. _____
SHEET ____ OF ____

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R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 05/22/06

Rev. Date: 5-18-98

	BY	CHECKED
DESIGN	J. Sun	M. Chen
DETAILS	J. Duxbury	M. Chen
QUANTITIES	S. Shi	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)

W2 CAP BEAM REINFORCEMENT DETAILS NO. 1

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

CU 04
EA 0120F1

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NOTES:

1. For Section A-A and B-B, see "W2 Cap Beam Reinforcement Details No.6" sheet.
2. For Section C-C thru E-E, see "W2 Cap Beam Reinforcement Details No.7" sheet.
3. For Section F-F, see "W2 Cap Beam Reinforcement Details No.8" sheet.

LOCATION KEY
NTS

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DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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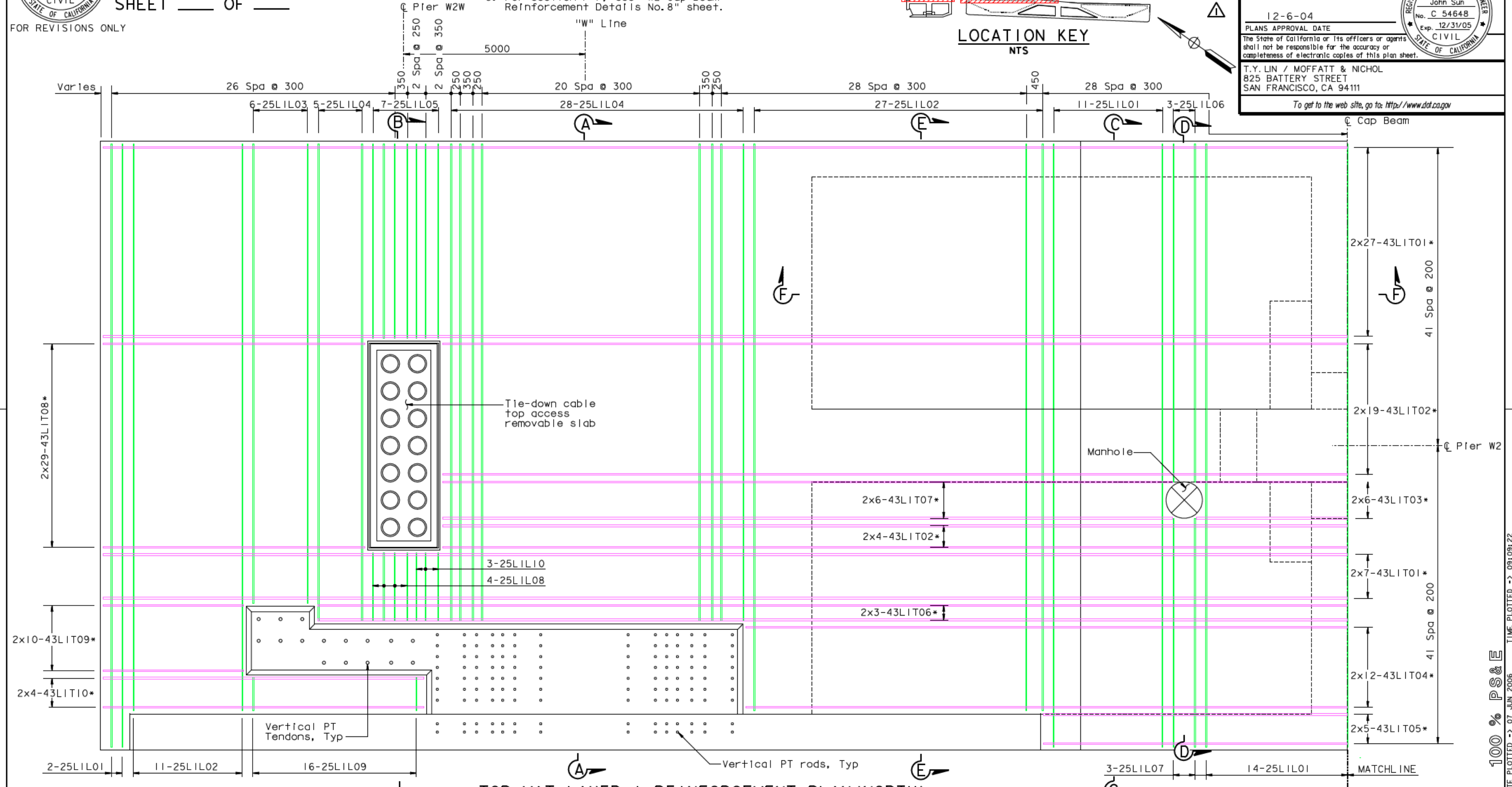

* Denotes Bars Bundled Vertically

TOP MAT-LAYER 1 REINFORCEMENT PLAN (NORTH)
1:50

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100 % PS&E

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	BY	CHECKED
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DETAILS	J. Duxbury	M. Chen
QUANTITIES	S. Shi	D. Harrison

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

W2 CAP BEAM REINFORCEMENT DETAILS 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

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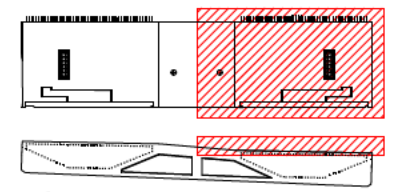
NOTES:

1. For Section G-G, see "W2 Cap Beam Reinforcement Details No. 8" sheet.



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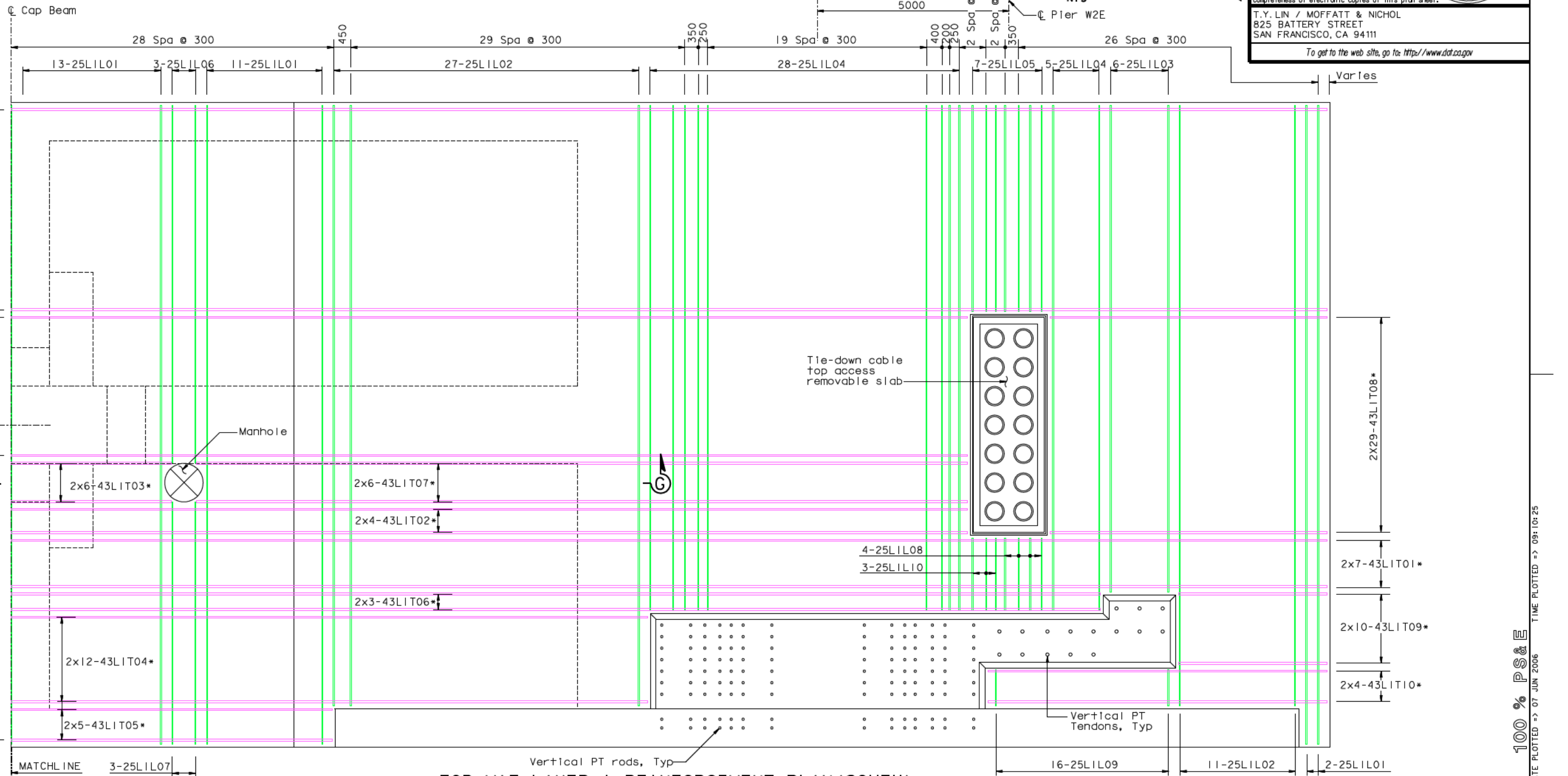

* Denotes Bars Bundled Vertically

TOP MAT-LAYER 1 REINFORCEMENT PLAN (SOUTH)

1:50

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100 % PS&E

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DESIGN	J. Sun	M. Chen
DETAILS	J. Duxbury	M. Chen
QUANTITIES	S. Shi	D. Harrison

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PROJECT ENGINEER

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KILOMETER POST 13.2/13.9

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

W2 CAP BEAM REINFORCEMENT DETAILS NO. 3

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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No. C 64677
Exp. 06/30/07
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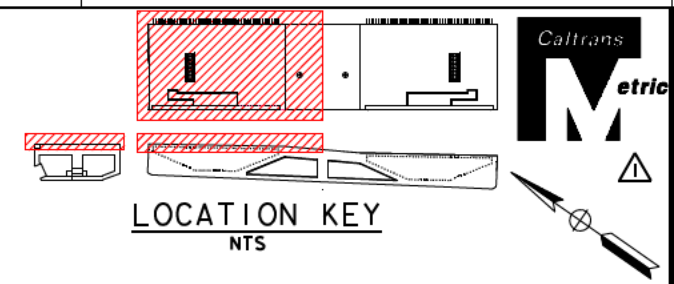
STATE OF CALIFORNIA

NOTES:

1. For Section A-A and B-B, see "W2 Cap Beam Reinforcement Details No.6" sheet.
2. For Section C-C thru E-E, see "W2 Cap Beam Reinforcement Details No.7" sheet.
3. For Section F-F, see "W2 Cap Beam Reinforcement Details No.8" sheet.
4. High bar of vertical bundle is a thru bar. Low bar terminates at continuity tendon 42B.


LOCATION KEY
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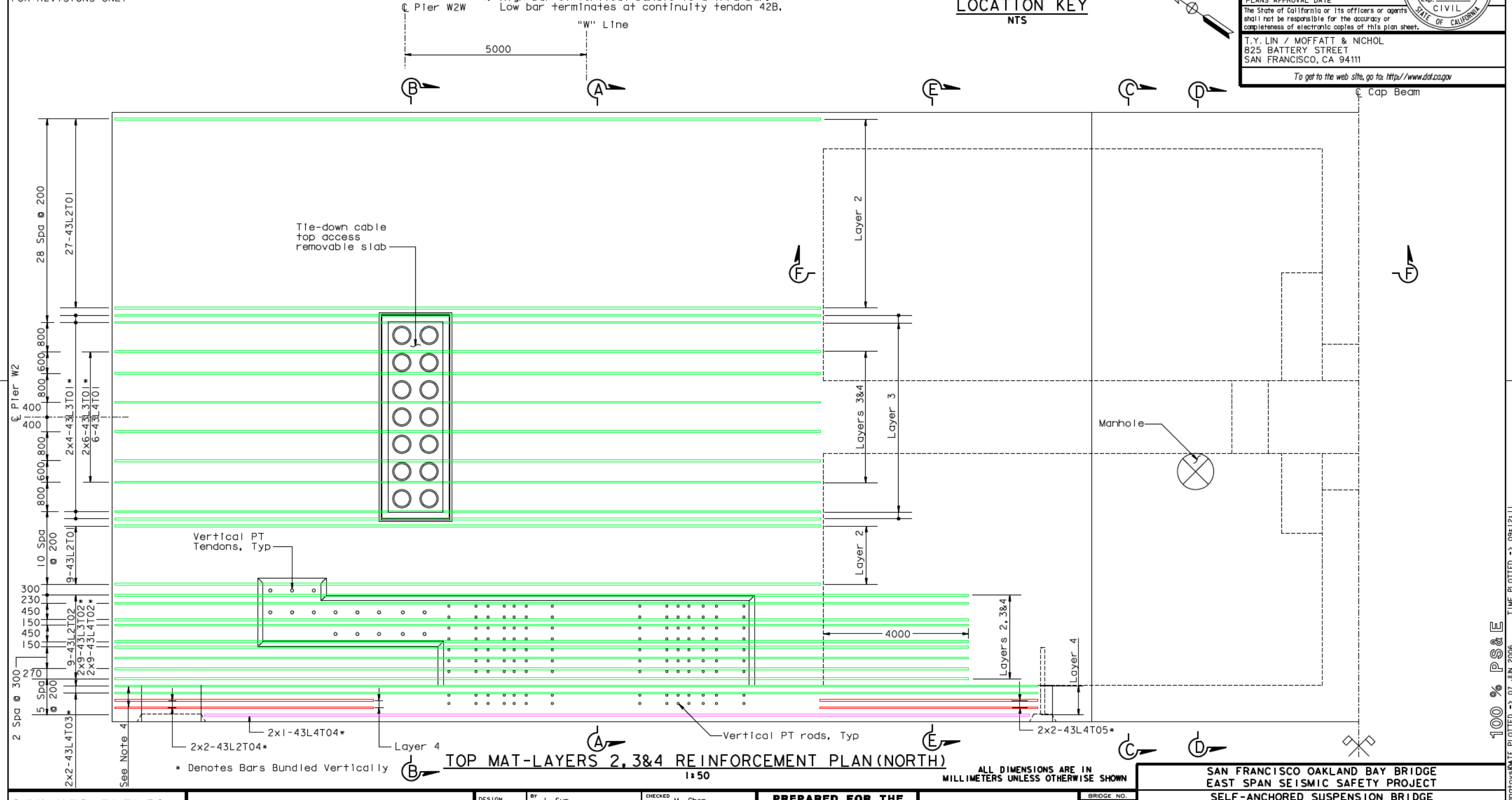

* Denotes Bars Bundled Vertically

TOP MAT-LAYERS 2,3&4 REINFORCEMENT PLAN (NORTH)
1:50

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100 % PS&E

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DESIGN	J. Sun	M. Chen
DETAILS	J. Duxbury	M. Chen
QUANTITIES	S. Shi	D. Harrison

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PROJECT ENGINEER

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W2 CAP BEAM REINFORCEMENT DETAILS NO. 4

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

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1	05/22/06	W2 CAP BEAM ISD	JD	AS

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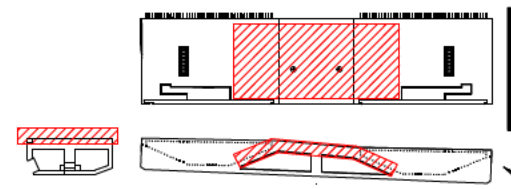
NOTES:
1. For Section C-C thru E-E, see "W2 Cap Beam Reinforcement Details No.7" sheet.
2. For Section F-F, see "W2 Cap Beam Reinforcement Details No.8" sheet.



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04	SF	80	13.2/13.9	478R1	1204

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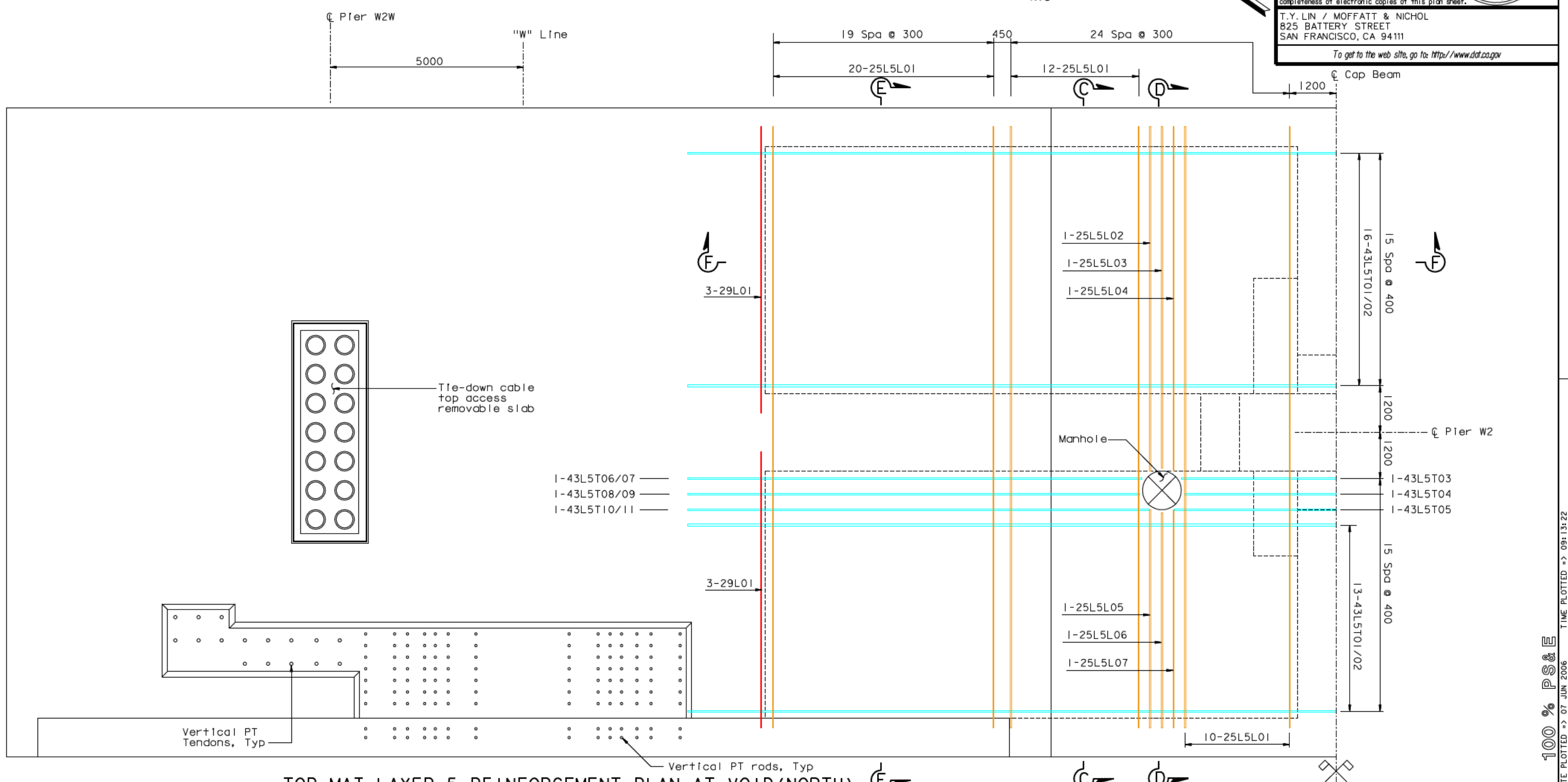

TOP MAT-LAYER 5 REINFORCEMENT PLAN AT VOID(NORTH)
1:50

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100 % PS&E

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

W2 CAP BEAM REINFORCEMENT DETAILS NO.5

R. Valizadeh/V.Toan/Y.L./W.L./F.C.
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SIGN OFF DATE 05/22/06

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DESIGN	J. Sun	M. Chen
DETAILS	J. Duxbury	M. Chen
QUANTITIES	S. Shi	D. Harrison

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		REVISIONS		

CONTRACT CHANGE ORDER NO. _____
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NOTES:

1. East face and West face reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No. 19 to No. 25" sheets.
2. Vertical and horizontal stirrup reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No. 40 to No. 43" sheets.

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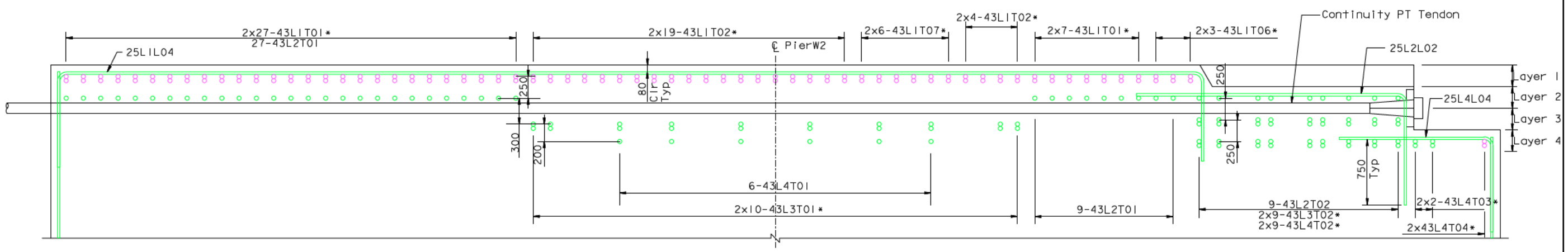
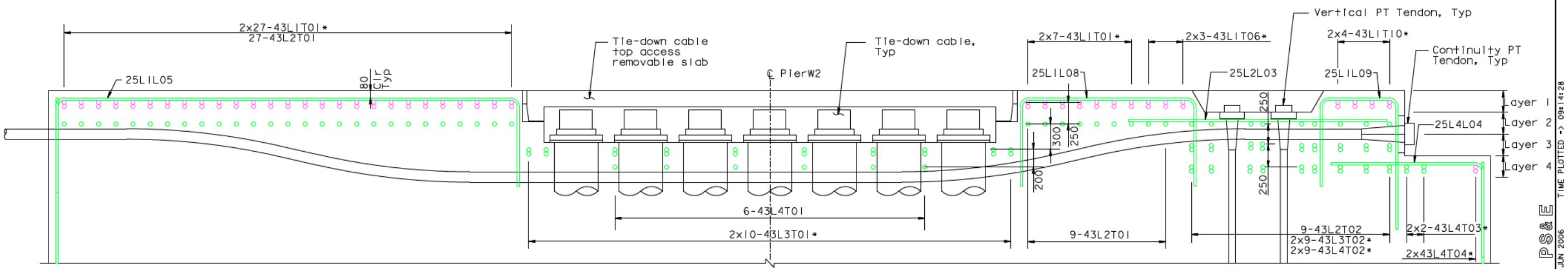


SECTION A-A



SECTION B-B

TOP MAT REINFORCEMENT

(North Side shown, South Side similar)
NTS

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DESIGN	BY J. Sun	CHECKED M. Chen	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY J. Duxbury	CHECKED M. Chen	
QUANTITIES	BY S. Shi	CHECKED D. Harrison	

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
Ryan Valiz / Vong Toan / Y. Liu
SIGN OFF DATE 05/22/06

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)

W2 CAP BEAM REINFORCEMENT DETAILS NO. 6

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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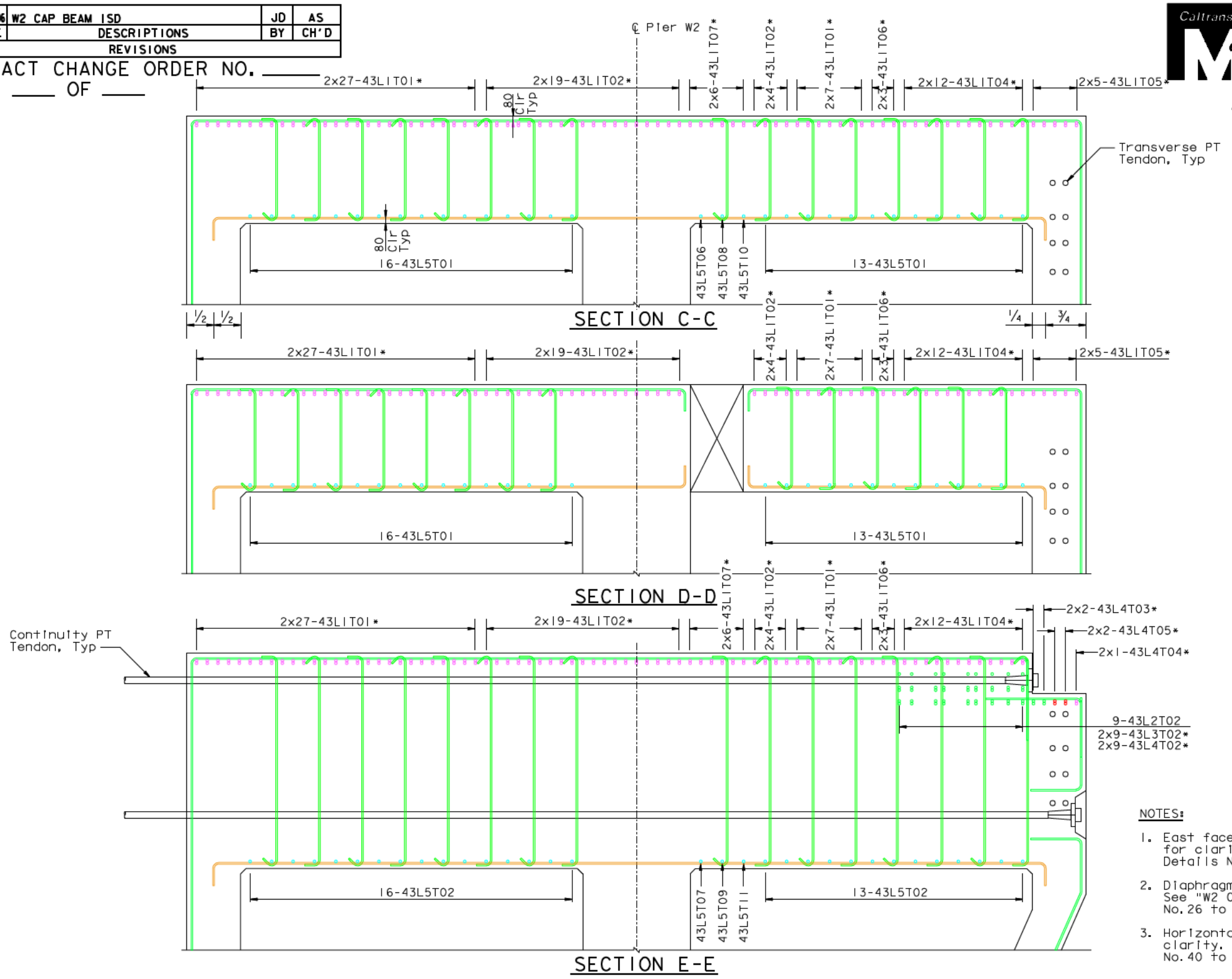

* Denotes Bars Bundled Vertically

TOP MAT REINFORCEMENT

(North Side shown, South Side similar)
NTS

NOTES:

1. East face and West face reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No. 19 to No. 25" sheets.
2. Diaphragm reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No. 26 to No. 29" sheets.
3. Horizontal stirrup reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No. 40 to No. 43" sheets.

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 05/22/06

DESIGN	BY J. Sun	CHECKED M. Chen	
DETAILS	BY J. Duxbury	CHECKED M. Chen	
QUANTITIES	BY S. Shi	CHECKED 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)

W2 CAP BEAM REINFORCEMENT DETAILS NO. 7

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 | 04/09/02 | 07/09/02 | 12/19/02

SHEET 063R1 OF

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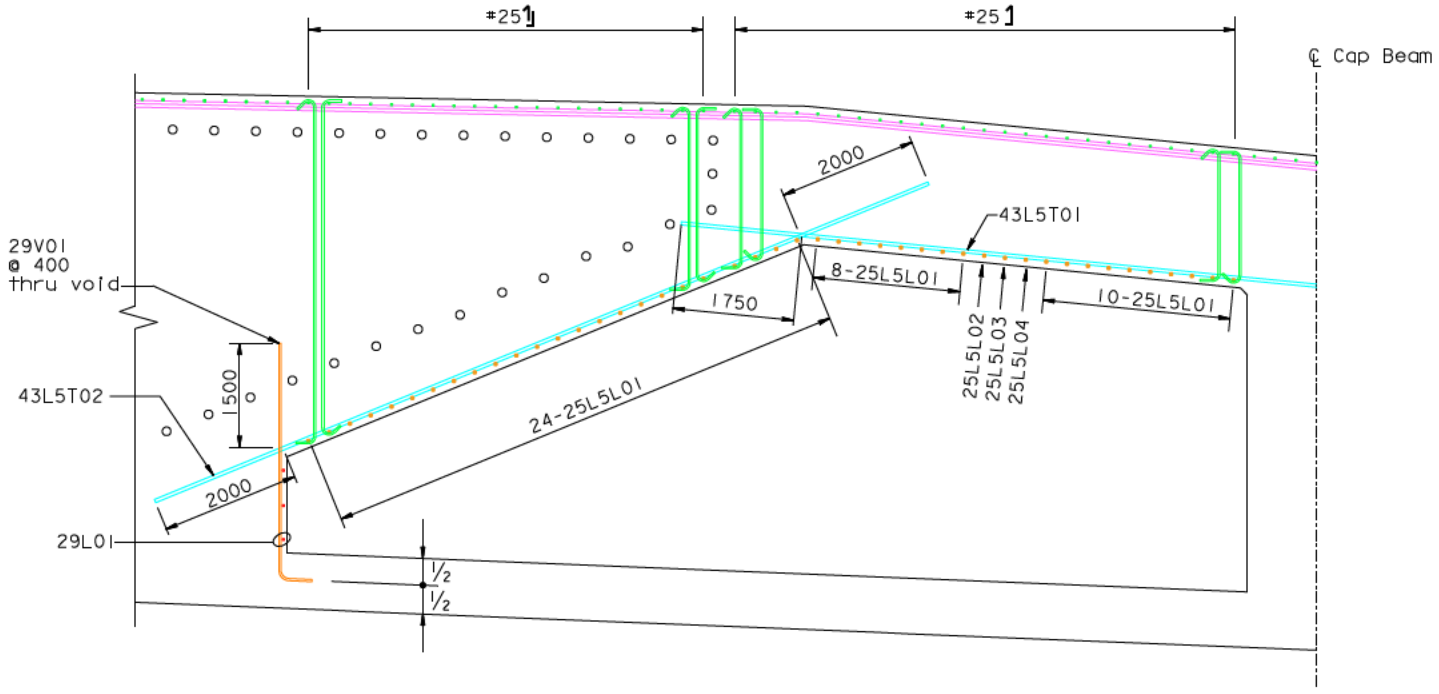
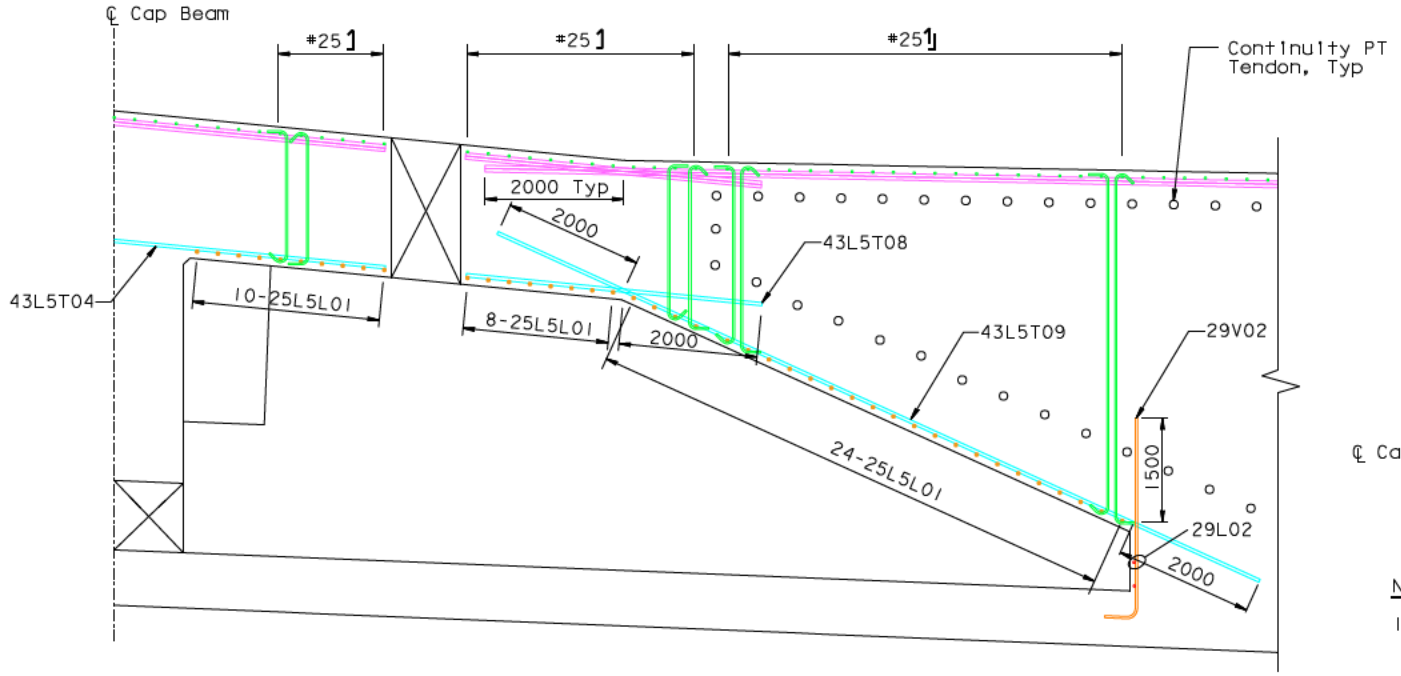
DATE PLOTTED => 07 JUN 2006
USERNAME => vignatovs

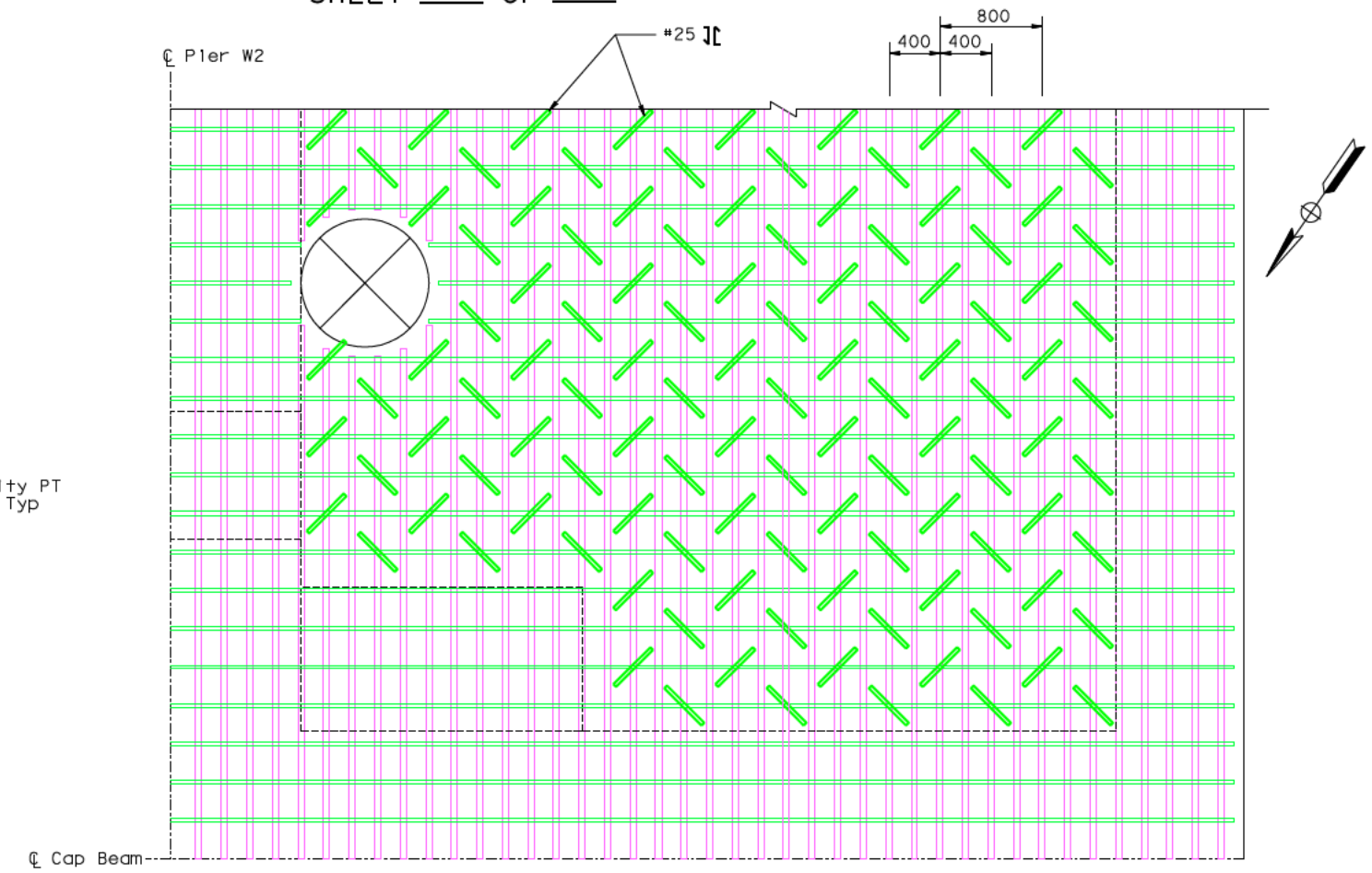


SECTION F-F



SECTION G-G

TOP MAT REINFORCEMENT
1:50



TOP SLAB STIRRUP PLAN (PARTIAL)
(Above void shown only)
1:25

NOTES:

1. Bottom mat reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No.9 to No.17" sheets.
2. Diaphragm reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No.26 to No.29" sheets.
3. Jacking Saddle reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No.30 to No.33" sheets.
4. Horizontal and vertical stirrup reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No.40 to No.43" sheets.

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	481R1	1204

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

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REGISTERED PROFESSIONAL ENGINEER John Sun No. C 54648 Exp. 12/31/05 CIVIL STATE OF CALIFORNIA

T.Y. LIN / MOFFATT & NICHOL
825 BATTERY STREET
SAN FRANCISCO, CA 94111

To get to the web site, go to: http://www.dot.ca.gov

REGISTERED PROFESSIONAL ENGINEER James P. Duxbury No. C 64677 Exp. 06/30/07 CIVIL STATE OF CALIFORNIA

FOR REVISIONS ONLY

Caltrans Metric

MARK	DATE	DESCRIPTIONS	BY	CH'D
1	05/22/06	W2 CAP BEAM ISD	JD	AS

REVISIONS

CONTRACT CHANGE ORDER NO. ____
SHEET ____ OF ____

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

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

W2 CAP BEAM REINFORCEMENT DETAILS NO.8

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 05/22/06

	BY	CHECKED
DESIGN	J. Sun	M. Chen
DETAILS	J. Duxbury	M. Chen
QUANTITIES	S. Shi	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) 05/31/01 04/08/02 07/01/02 12/19/02

SHEET 064R1 OF

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USERNAME => vignatovs DATE PLOTTED => 07 JUN 2006 TIME PLOTTED => 09:16:30

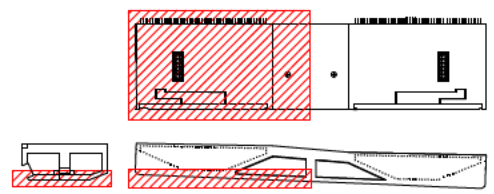
MARK	DATE	DESCRIPTIONS	BY	CH'D
1	05/22/06	W2 CAP BEAM ISD	JD	AS

REVISIONS

CONTRACT CHANGE ORDER NO. _____
SHEET ___ OF ___

FOR REVISIONS ONLY

NOTES:
1. For Section A-A and B-B, see "W2 Cap Beam Reinforcement Details No.16" sheet.
2. For Section C-C and D-D, see "W2 Cap Beam Reinforcement Details No.17" sheet.
3. For Section E-E, see "W2 Cap Beam Reinforcement Details No.18" sheet.



LOCATION KEY
NTS

Caltrans Metric

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	482RI	1204

REGISTERED ENGINEER - CIVIL
12-6-04
PLANS APPROVAL DATE
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SAN FRANCISCO, CA 94111

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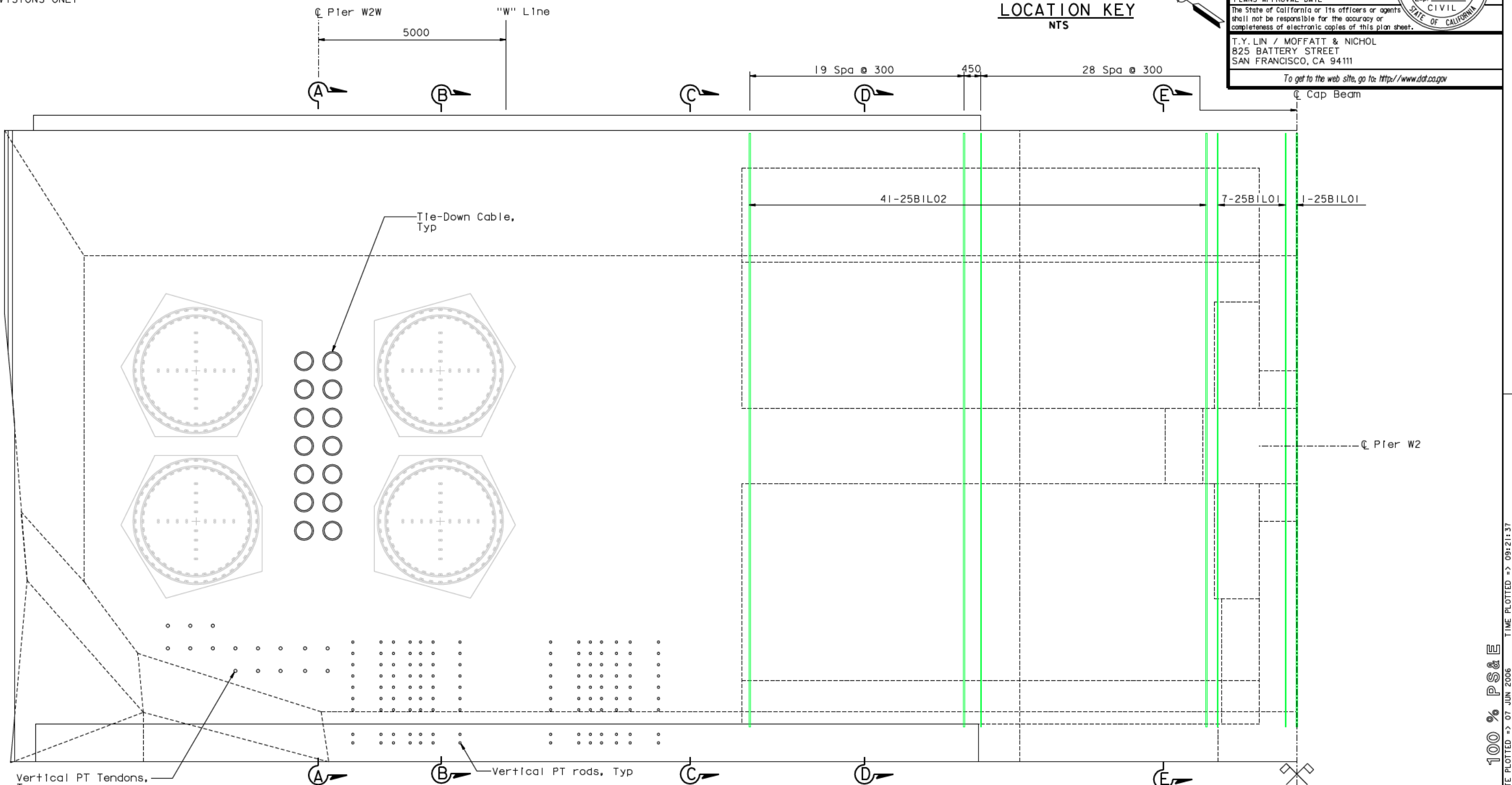

BOTTOM MAT-LAYER BI REINFORCEMENT PLAN(NORTH) (LONGIT)
1:50

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

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

W2 CAP BEAM REINFORCEMENT DETAILS NO.9

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 05/22/06

	BY	CHECKED
DESIGN	J. Sun	M. Chen
DETAILS	J. Duxbury	M. Chen
QUANTITIES	S. Shi	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): 05/31/01 04/08/02 07/09/02 12/19/02

SHEET 065RI OF

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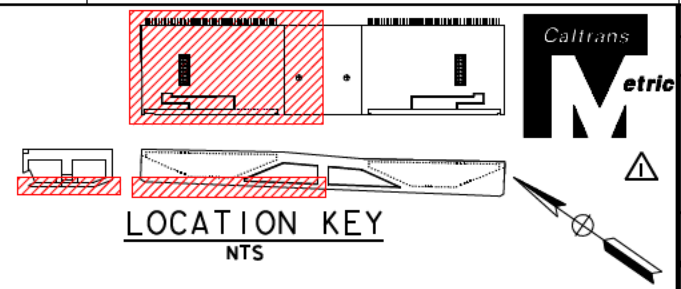
MARK	DATE	DESCRIPTIONS	BY	CH'D
1	05/22/06	W2 CAP BEAM ISD	JD	AS

REVISIONS

CONTRACT CHANGE ORDER NO. _____
SHEET ____ OF ____

FOR REVISIONS ONLY

NOTES:
1. For Section A-A and B-B, see "W2 Cap Beam Reinforcement Details No.16" sheet.
2. For Section C-C and D-D, see "W2 Cap Beam Reinforcement Details No.17" sheet.
3. For Section E-E, see "W2 Cap Beam Reinforcement Details No.18" sheet.



LOCATION KEY
NTS

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	483R1	1204

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

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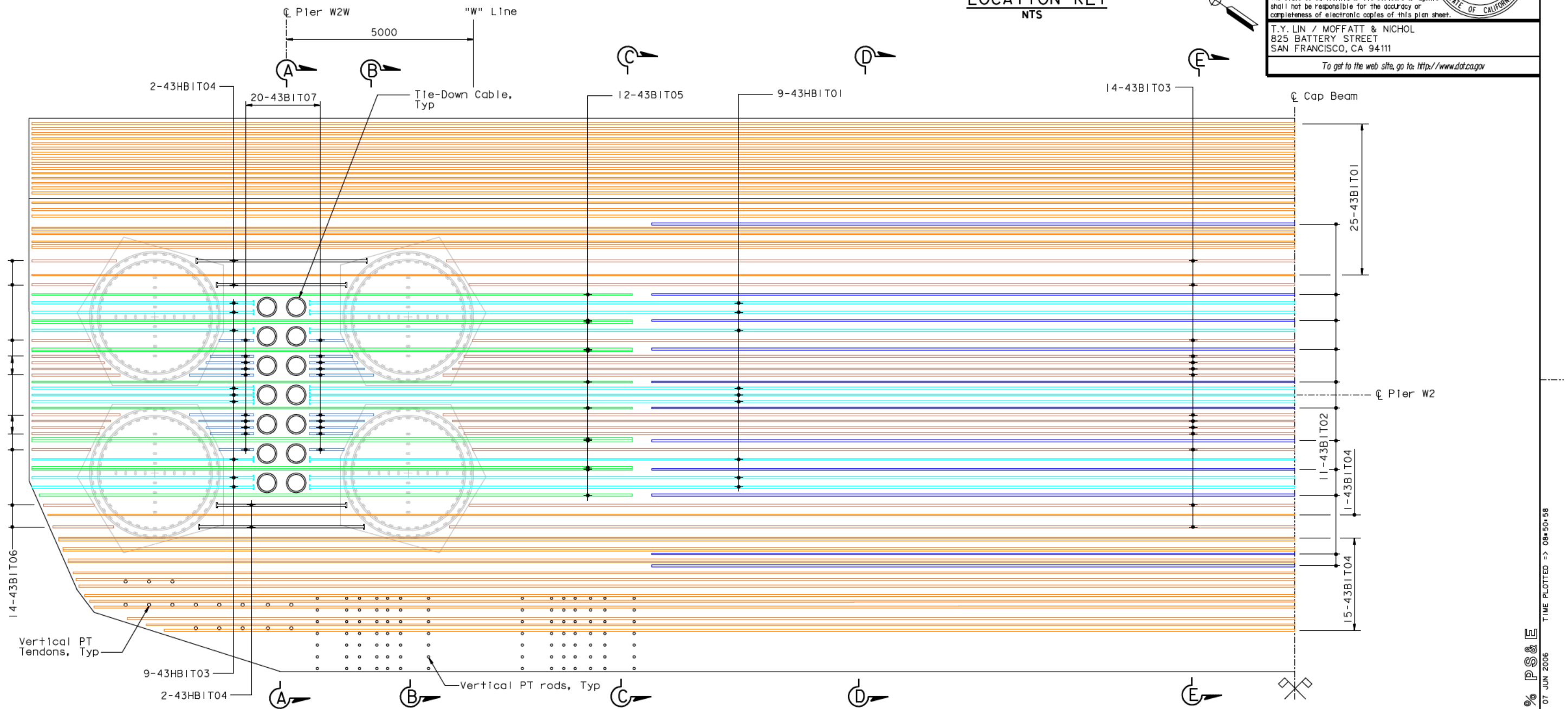

BOTTOM MAT-LAYER B1 REINFORCEMENT PLAN(NORTH) (TRANSVERSE)
1:50

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

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

W2 CAP BEAM REINFORCEMENT DETAILS NO.10

R. Valizadeh/V.Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 05/22/06

	BY	CHECKED
DESIGN	J. Sun	M. Chen
DETAILS	J. Duxbury	M. Chen
QUANTITIES	S. Shi	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) 05/31/01 04/08/02 07/01/02 12/19/02

SHEET 066R1 OF

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REGISTERED PROFESSIONAL ENGINEER
James P. Duxbury
No. C 64677
Exp. 06/30/07
CIVIL
STATE OF CALIFORNIA

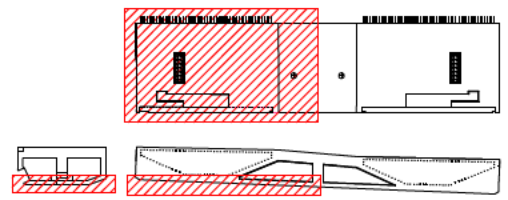
FOR REVISIONS ONLY

MARK	DATE	DESCRIPTIONS	BY	CH'D
1	05/22/06	W2 CAP BEAM ISD	JD	AS
		REVISIONS		

CONTRACT CHANGE ORDER NO. _____
SHEET ___ OF ___

NOTES:

1. For Section A-A and B-B, see "W2 Cap Beam Reinforcement Details No.16" sheet.
2. For Section C-C and D-D, see "W2 Cap Beam Reinforcement Details No.17" sheet.
3. For Section E-E, see "W2 Cap Beam Reinforcement Details No.18" sheet.



LOCATION KEY
NTS

Caltrans Metric

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	484R1	1204

REGISTERED ENGINEER - CIVIL

12-6-04
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
John Sun
No. C 54648
Exp. 12/31/05
CIVIL
STATE OF CALIFORNIA

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SAN FRANCISCO, CA 94111

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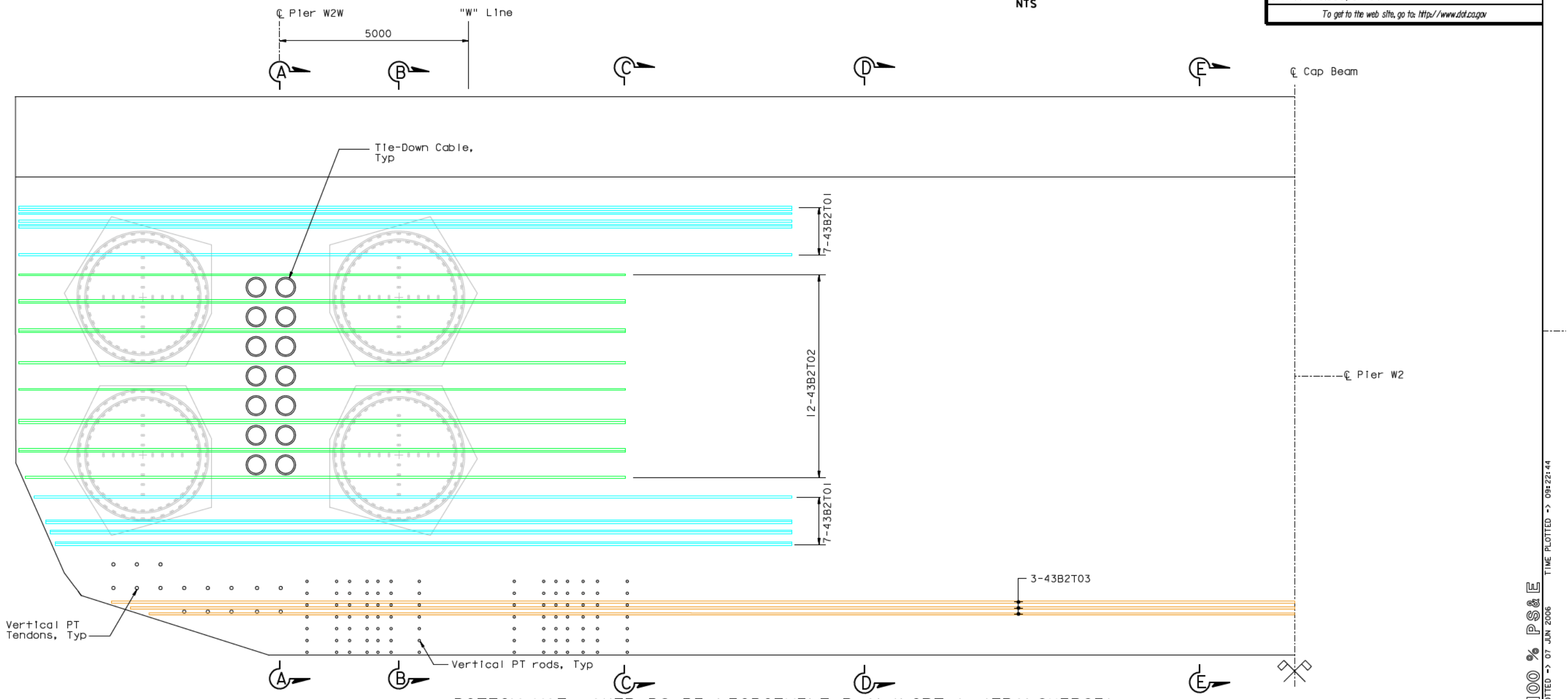

BOTTOM MAT-LAYER B2 REINFORCEMENT PLAN(NORTH) (TRANSVERSE)
1:50

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
STGN OFF DATE 05/22/06

	BY	CHECKED
DESIGN	J. Sun	M. Chen
DETAILS	J. Duxbury	M. Chen
QUANTITIES	S. Shi	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)
W2 CAP BEAM REINFORCEMENT DETAILS NO. 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): 05/31/01 | 04/09/02 | 07/01/02 | 12/19/02

SHEET 067R1 OF

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MARK	DATE	DESCRIPTIONS	BY	CH'D
1	05/22/06	W2 CAP BEAM ISD	JD	AS

REVISIONS

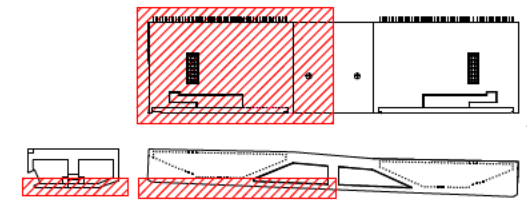
CONTRACT CHANGE ORDER NO. _____
SHEET ____ OF ____

FOR REVISIONS ONLY

REGISTERED PROFESSIONAL ENGINEER James P. Duxbury No. C 64677 Exp. 06/30/07 CIVIL STATE OF CALIFORNIA

NOTES:

1. For Section A-A and B-B, see "W2 Cap Beam Reinforcement Details No. 16" sheet.
2. For Section C-C and D-D, see "W2 Cap Beam Reinforcement Details No. 17" sheet.
3. For Section E-E, see "W2 Cap Beam Reinforcement Details No. 18" sheet.



LOCATION KEY
NTS

Caltrans Metric

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	485R1	1204

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12-6-04
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER John Sun No. C 54648 Exp. 12/31/05 CIVIL STATE OF CALIFORNIA

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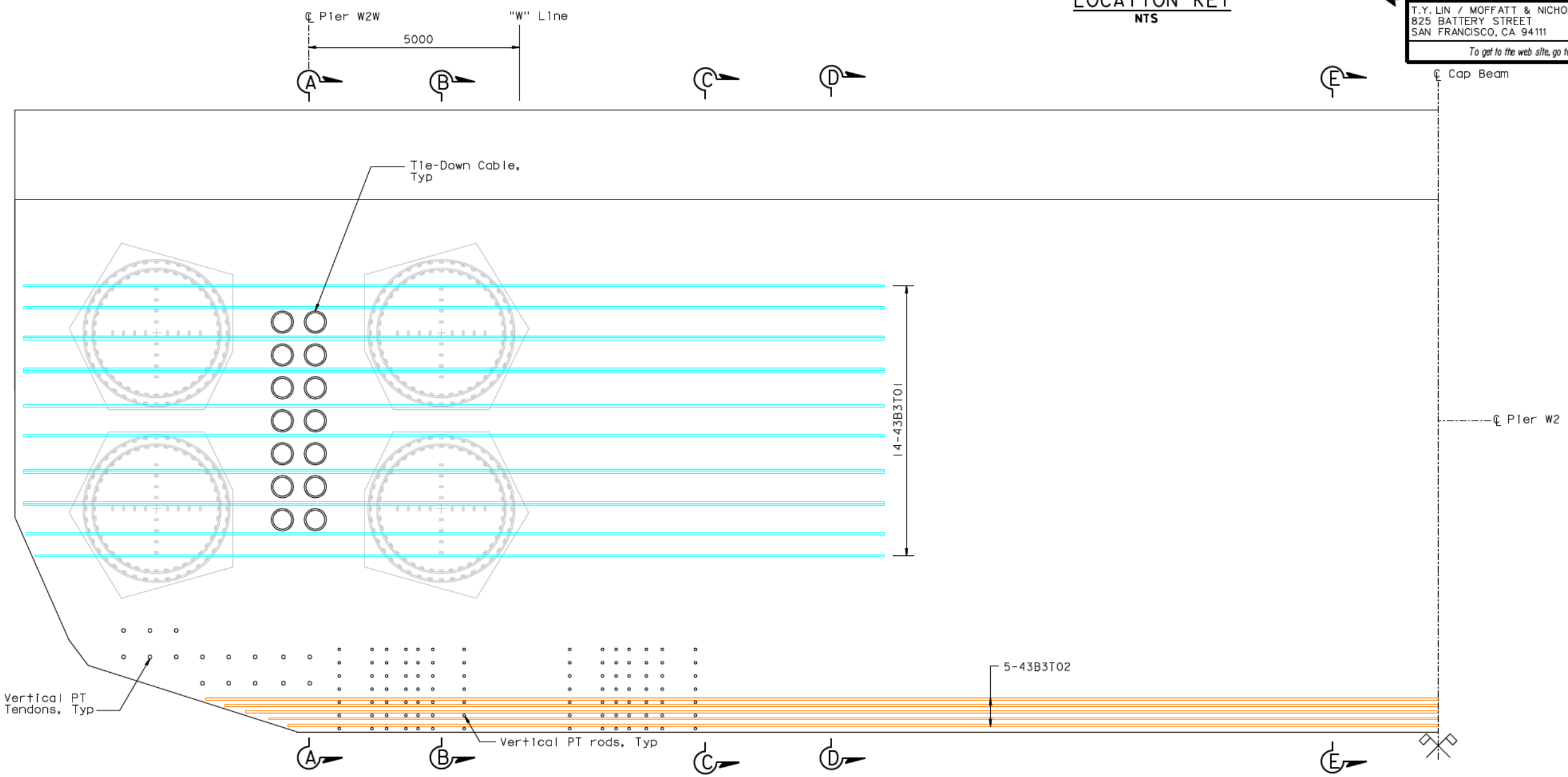


BOTTOM MAT-LAYER B3 REINFORCEMENT PLAN(NORTH) (TRANSVERSE)
1:50

100 % PS&E

USERNAME => vignatovsk DATE PLOTTED => 07 JUN 2006 TIME PLOTTED => 08:59:27

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

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

W2 CAP BEAM REINFORCEMENT DETAILS NO. 12

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 05/22/06

	BY	CHECKED
DESIGN	J. Sun	M. Chen
DETAILS	J. Duxbury	M. Chen
QUANTITIES	S. Shi	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) 05/31/01 04/08/02 07/01/02 12/19/02

SHEET 068R1 OF

FILE -> p:\bb\04-012001\sas readv august 2005\w2 - cco\aecapllr-c.dgn

MARK	DATE	DESCRIPTIONS	BY	CH'D
1	05/22/06	W2 CAP BEAM ISD	JD	AS

REVISIONS

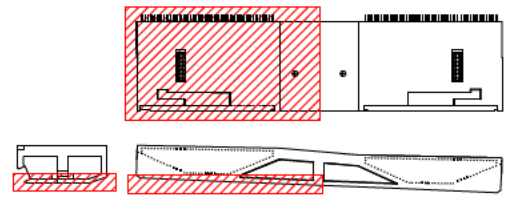
CONTRACT CHANGE ORDER NO. _____
SHEET ____ OF ____

FOR REVISIONS ONLY

REGISTERED PROFESSIONAL ENGINEER
James P. Duxbury
No. C 64677
Exp. 06/30/07
CIVIL
STATE OF CALIFORNIA

NOTES:

1. For Section A-A and B-B, see "W2 Cap Beam Reinforcement Details No. 16" sheet.
2. For Section C-C and D-D, see "W2 Cap Beam Reinforcement Details No. 17" sheet.
3. For Section E-E, see "W2 Cap Beam Reinforcement Details No. 18" sheet.



LOCATION KEY
NTS

Caltrans Metric

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	486R1	1204

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

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John Sun
No. C 54648
Exp. 12/31/05
CIVIL
STATE OF CALIFORNIA

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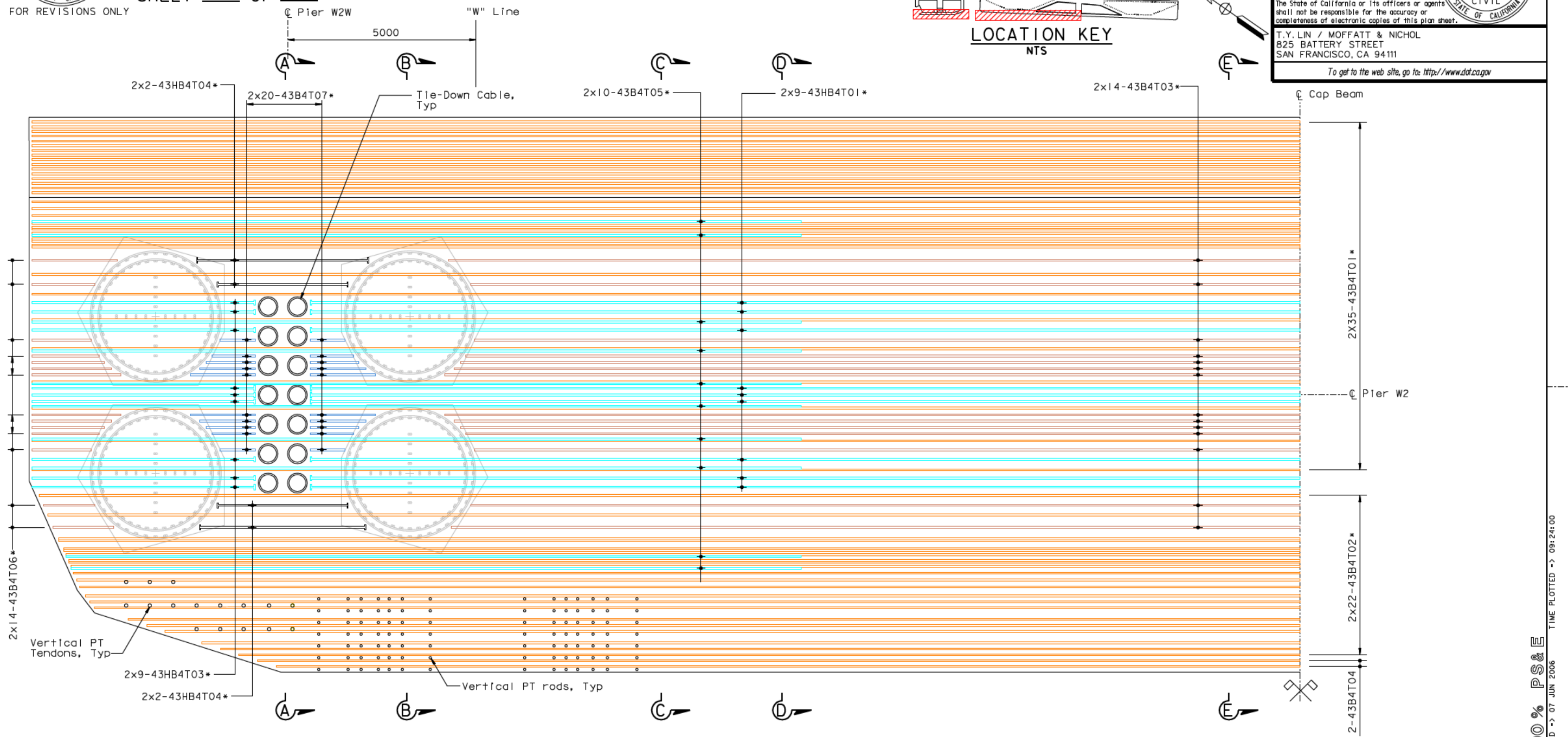


BOTTOM MAT-LAYER B4 REINFORCEMENT PLAN(NORTH) (TRANSVERSE)
1:50

* Denotes Bars Bundled Vertically

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

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

W2 CAP BEAM REINFORCEMENT DETAILS NO. 13

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 05/22/06

	BY	CHECKED
DESIGN	J. Sun	M. Chen
DETAILS	J. Duxbury	M. Chen
QUANTITIES	S. Shi	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) 05/31/01 04/08/02 07/01/02 12/19/02

SHEET 069R1 OF

FILE -> p:\bb\04-012001\sas readv august 2005\w2 - cco\aecap12r-c.dgn

100% PS&E

USERNAME -> vignatovs DATE PLOTTED -> 07 JUN 2006 TIME PLOTTED -> 09:24:00

MARK	DATE	DESCRIPTIONS	BY	CH'D
1	05/22/06	W2 CAP BEAM ISD	JD	AS

REVISIONS

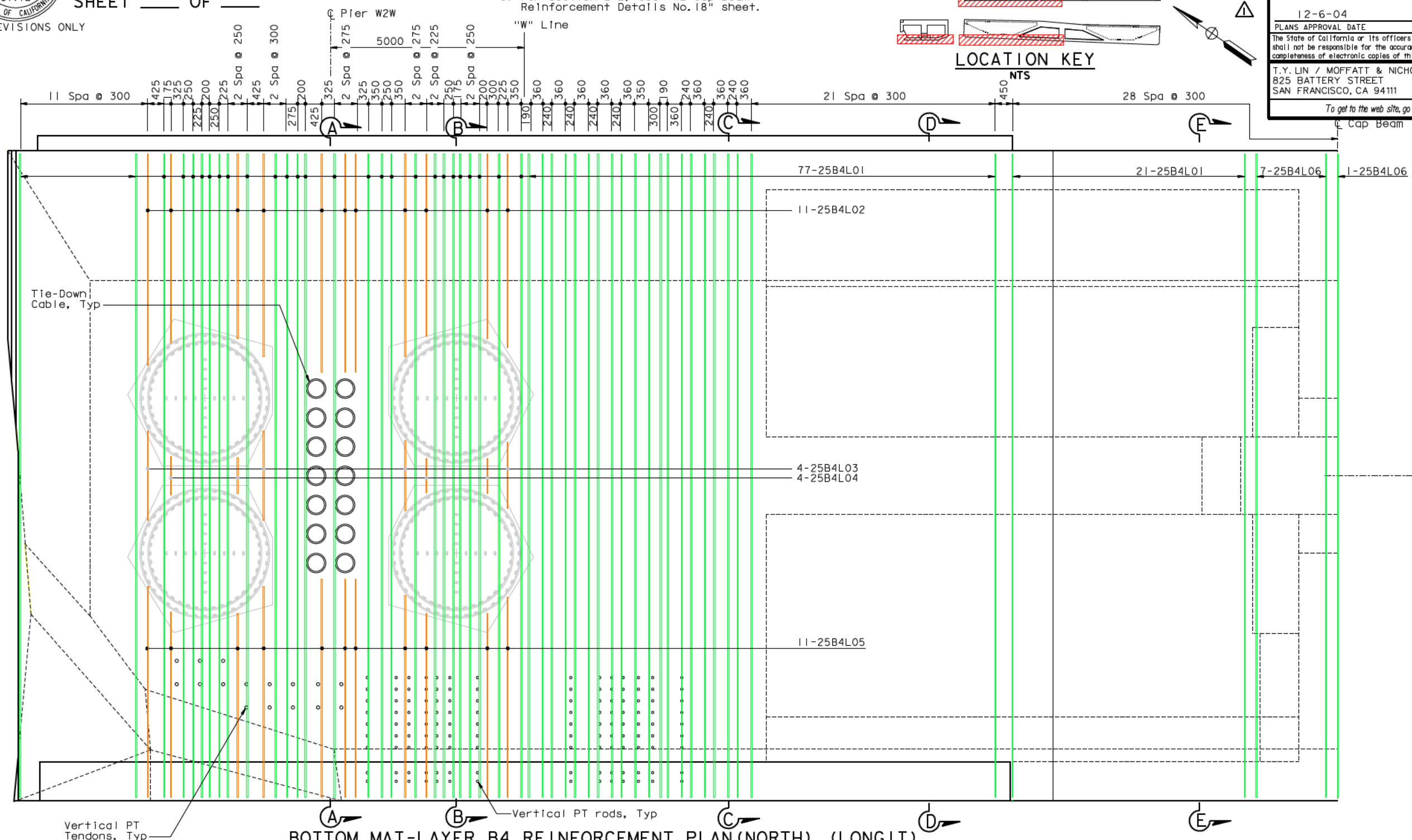
CONTRACT CHANGE ORDER NO. _____
SHEET ____ OF ____

FOR REVISIONS ONLY

REGISTERED PROFESSIONAL ENGINEER — Jamie P. Duxbury — No. C 64677 — Exp. 06/30/07 — CIVIL — STATE OF CALIFORNIA

NOTES:

1. For Section A-A and B-B, see "W2 Cap Beam Reinforcement Details No. 16" sheet.
2. For Section C-C and D-D, see "W2 Cap Beam Reinforcement Details No. 17" sheet.
3. For Section E-E, see "W2 Cap Beam Reinforcement Details No. 18" sheet.



BOTTOM MAT-LAYER B4 REINFORCEMENT PLAN (NORTH) (LONGIT)
(South Side Similar)
1:50

LOCATION KEY
NTS

Caltrans Metric

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	487R1	1204

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

REGISTERED PROFESSIONAL ENGINEER — John Sun — No. C 54648 — Exp. 12/31/05 — CIVIL — STATE OF CALIFORNIA

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SAN FRANCISCO, CA 94111

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

W2 CAP BEAM REINFORCEMENT DETAILS NO. 14

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 05/22/06

	BY	CHECKED
DESIGN	J. Sun	M. Chen
DETAILS	J. Duxbury	M. Chen
QUANTITIES	S. Shi	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) 05/31/01 04/08/02 07/01/02 12/19/02

SHEET 070R1 OF

FILE -> p:\bb\04-012001\sas readv august 2005\w2 - cco\aecap13r-c.dgn

USERNAME => vignatovsk DATE PLOTTED => 07 JUN 2006 TIME PLOTTED => 09:03:41

REGISTERED PROFESSIONAL ENGINEER — Thomas P. Duxbury — No. C 64677 — Exp. 06/30/07 — CIVIL — STATE OF CALIFORNIA

MARK	DATE	DESCRIPTIONS	BY	CH'D
1	05/22/06	W2 CAP BEAM ISD	JD	AS
		REVISIONS		

CONTRACT CHANGE ORDER NO. _____
SHEET ____ OF ____

FOR REVISIONS ONLY

Caltrans Metric

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	488R1	1204

REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER — John Sun — No. C 54648 — Exp. 12/31/05 — CIVIL — STATE OF CALIFORNIA

12-6-04
PLANS APPROVAL DATE

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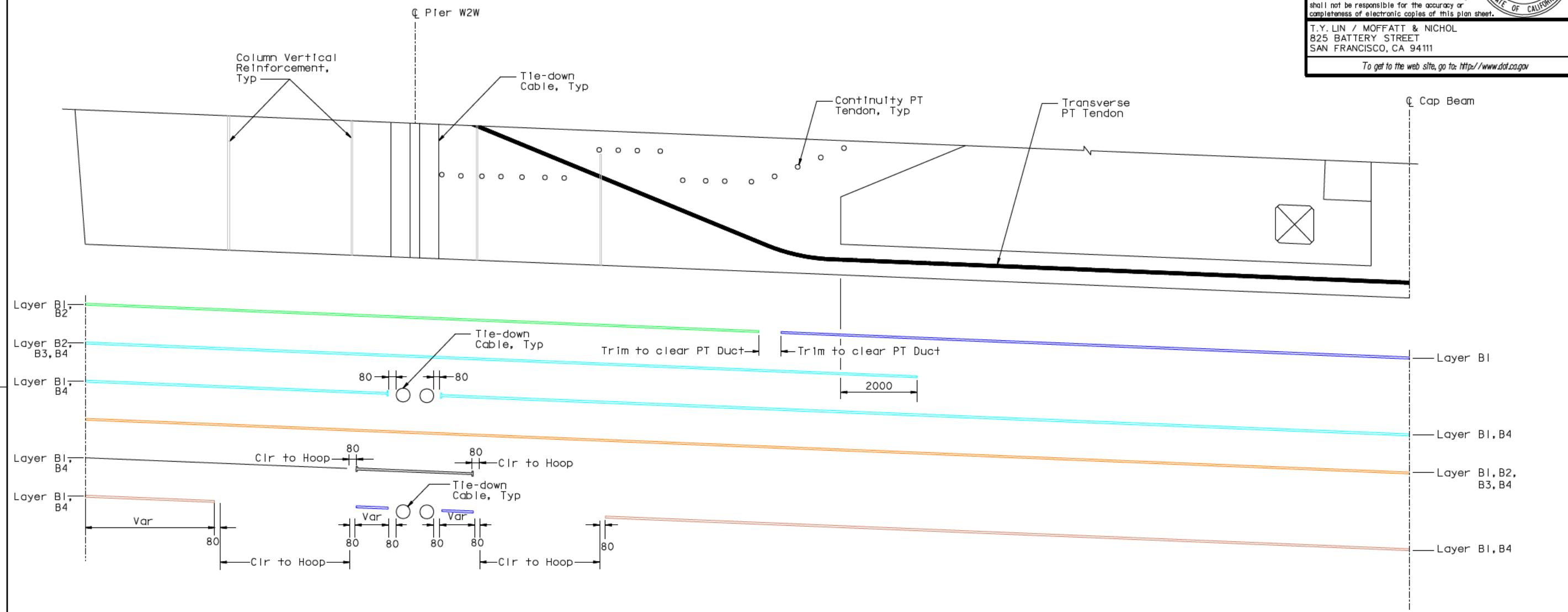

BOTTOM MAT REINFORCEMENT EXTENT PLAN

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

100 % PS&E

TIME PLOTTED => 09:26:04
DATE PLOTTED => 07 JUN 2006
USERNAME => vignotvs

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 05/22/06

	BY	CHECKED
DESIGN	J. Sun	M. Chen
DETAILS	J. Duxbury	M. Chen
QUANTITIES	S. Shi	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)

W2 CAP BEAM REINFORCEMENT DETAILS NO. 15

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 071R1 OF

FILE -> p:\bb\04-012001\sas readv august 2005\w2 - cco\aecap14r-c.dgn

MARK	DATE	DESCRIPTIONS	BY	CH'D
1	05/22/06	W2 CAP BEAM ISD	JD	AS
		REVISIONS		

CONTRACT CHANGE ORDER NO. _____
SHEET ___ OF ___

FOR REVISIONS ONLY

NOTES:

1. East face and West face reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No.19 to No.25" sheets.
2. Vertical and horizontal stirrup reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No.40 to No.43" sheets.

Caltrans Metric

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	489R1	1204

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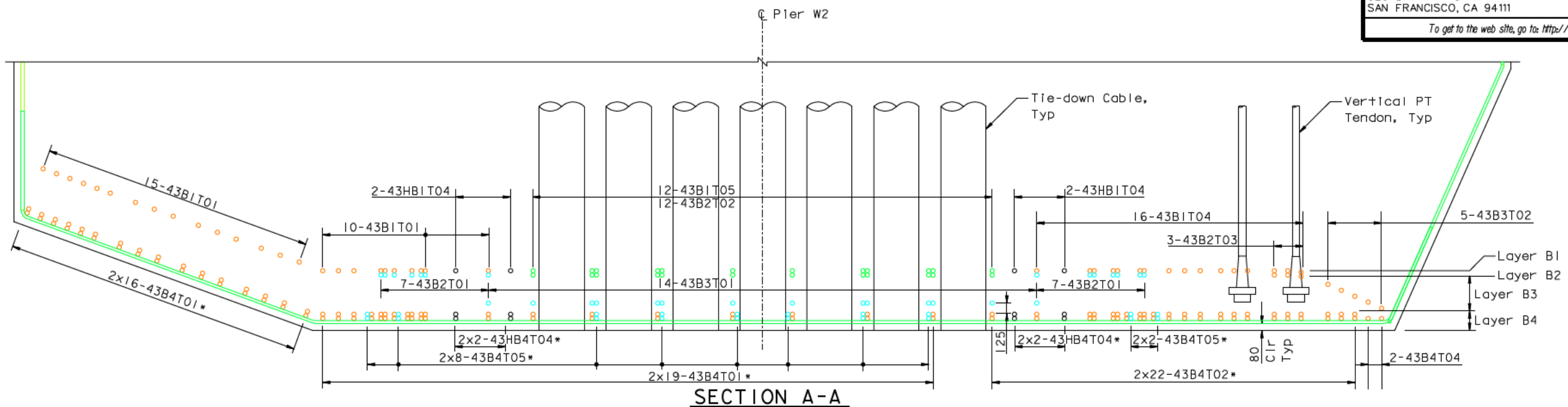
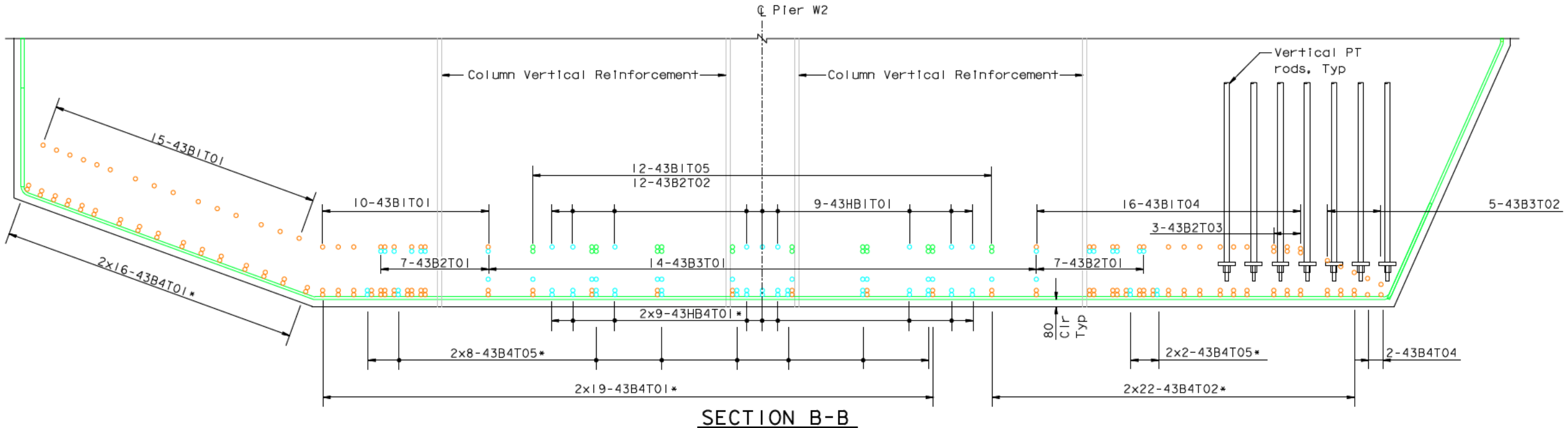


SECTION A-A



SECTION B-B

* Denotes Bars Bundled Vertically

BOTTOM MAT REINFORCEMENT
(North Side shown, South Side similar)
1:25

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DESIGN	BY J. Sun	CHECKED M. Chen	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY J. Duxbury	CHECKED M. Chen	
QUANTITIES	BY S. Shi	CHECKED D. Harrison	

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 05/22/06

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)

W2 CAP BEAM REINFORCEMENT DETAILS NO.16

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 072R1 OF

FILE -> p:\bb\04-01200\sas readv august 2005\w2 - cco\aecap15r-c.dgn

100 % PS&E

DATE PLOTTED -> 07 JUN 2006 TIME PLOTTED -> 09:27:19

USERNAME -> vignatovs

MARK	DATE	DESCRIPTIONS	BY	CH'D
1	05/22/06	W2 CAP BEAM ISD	JD	AS

REVISIONS

CONTRACT CHANGE ORDER NO. _____
SHEET ____ OF ____

FOR REVISIONS ONLY

REGISTERED PROFESSIONAL ENGINEER
James P. Duxbury
No. C 64677
Exp. 06/30/07
CIVIL
STATE OF CALIFORNIA

NOTES:

1. East face and West face reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No. 19 to No. 25" sheets.
2. Diaphragm reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No. 26 to No. 29" sheets.
3. Horizontal stirrup reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No. 40 to No. 43" sheets.

Caltrans Metric

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	490R1	1204

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

REGISTERED PROFESSIONAL ENGINEER
John Sun
No. C 54648
Exp. 12/31/05
CIVIL
STATE OF CALIFORNIA

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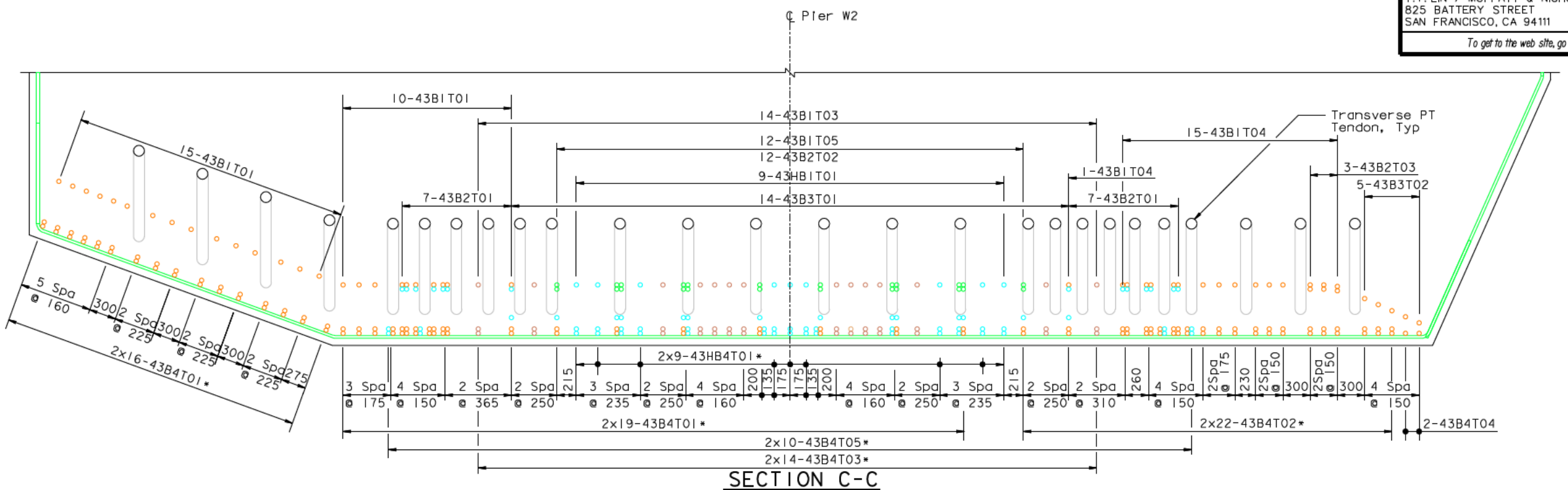
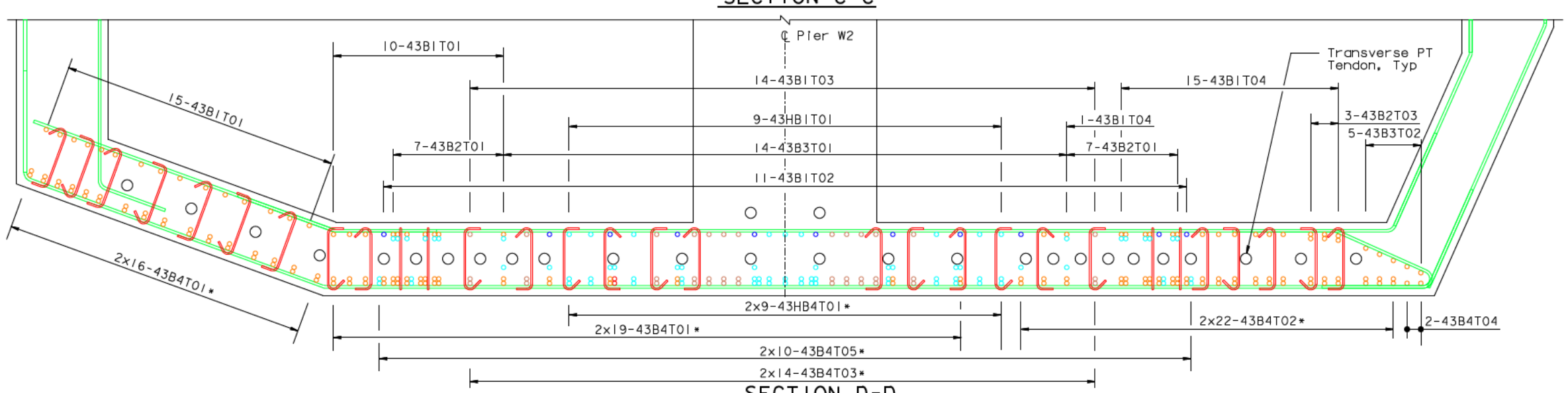


SECTION C-C



SECTION D-D

BOTTOM MAT REINFORCEMENT
(North Side shown, South Side similar)
1:25

* Denotes Bars Bundled Vertically

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

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

W2 CAP BEAM REINFORCEMENT DETAILS NO. 17

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 05/22/06

	BY	CHECKED
DESIGN	J. Sun	M. Chen
DETAILS	J. Duxbury	M. Chen
QUANTITIES	S. Shi	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) 05/31/01 04/08/02 07/01/02 12/19/02

SHEET 073R1 OF

FILE -> p:\bb\04-012001\sas readv august 2005\w2 - cco\aecap16r-c.dgn

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USERNAME -> vignatovs DATE PLOTTED -> 07 JUN 2006 TIME PLOTTED -> 09:28:25

MARK	DATE	DESCRIPTIONS	BY	CH'D
1	05/22/06	W2 CAP BEAM ISD	JD	AS

REVISIONS

CONTRACT CHANGE ORDER NO. _____
SHEET ____ OF ____

FOR REVISIONS ONLY

NOTES:

1. East face and West face reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No.19 to No.25" sheets.
2. Diaphragm reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No.26 to No.29" sheets.

Caltrans Metric

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	491R1	1204

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

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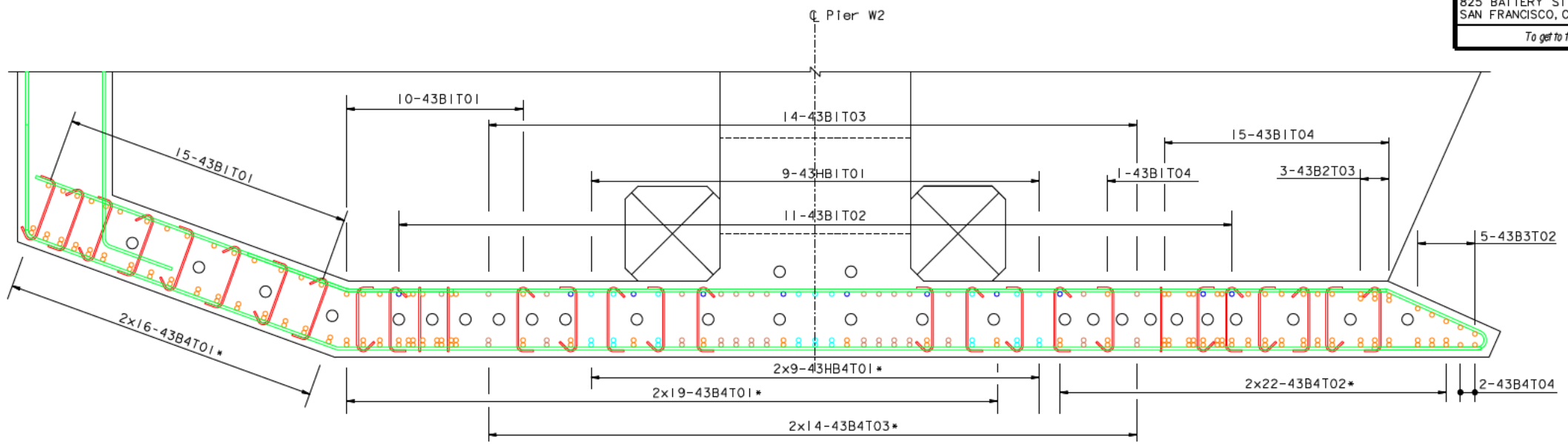
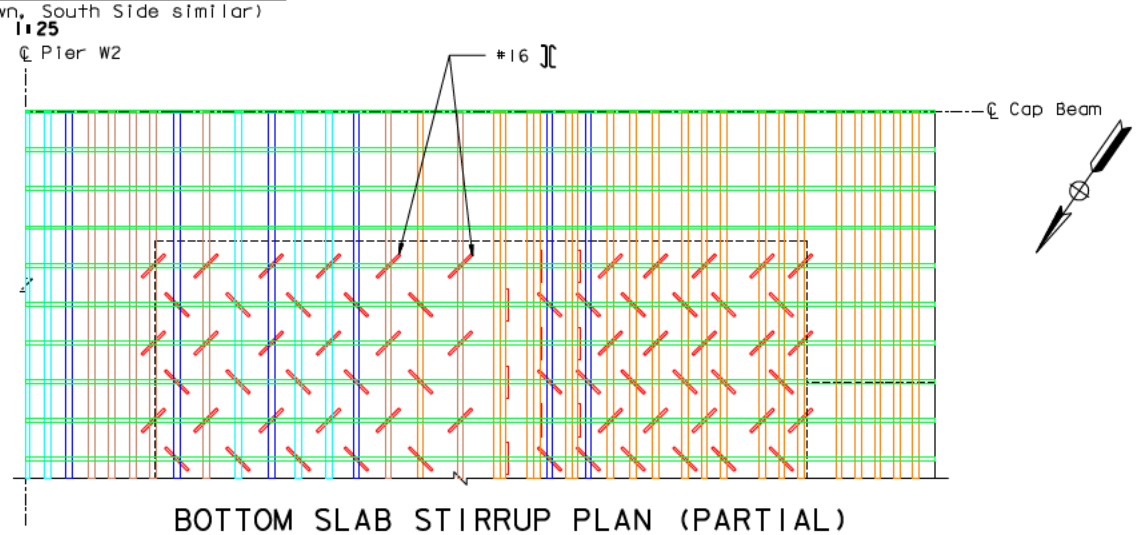


SECTION E-E
BOTTOM MAT REINFORCEMENT
(North Side shown, South Side similar)
1:25



BOTTOM SLAB STIRRUP PLAN (PARTIAL)
(Below Void Shown Only)
NTS

* Denotes Bars Bundled Vertically

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

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

W2 CAP BEAM REINFORCEMENT DETAILS NO.18

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 05/22/06

	BY	CHECKED
DESIGN	J. Sun	M. Chen
DETAILS	J. Duxbury	M. Chen
QUANTITIES	S. Shi	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) 05/27/01 04/08/02 07/02/02 12/19/02

SHEET 074R1 OF

FILE => p:\bb\04-012001\sas readv august 2005\w2 - cco\aecap17r-c.dgn

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USERNAME => vignatovsk DATE PLOTTED => 07 JUN 2006 TIME PLOTTED => 09:29:41

REGISTERED PROFESSIONAL ENGINEER — James P Duxbury — No. C 64677 — Exp. 06/30/07 — CIVIL — STATE OF CALIFORNIA

MARK	DATE	DESCRIPTIONS	BY	CH'D
1	05/22/06	W2 CAP BEAM ISD	JD	AS
		REVISIONS		

CONTRACT CHANGE ORDER NO. _____
SHEET ___ OF ___

FOR REVISIONS ONLY

NOTES:

1. For Section A-A and B-B, see "W2 Cap Beam Reinforcement Details No.22" sheet.

Caltrans Metric

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	492RI	1204

REGISTERED ENGINEER - CIVIL

12-6-04
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — John Sun — No. C 54648 — Exp. 12/31/05 — CIVIL — STATE OF CALIFORNIA

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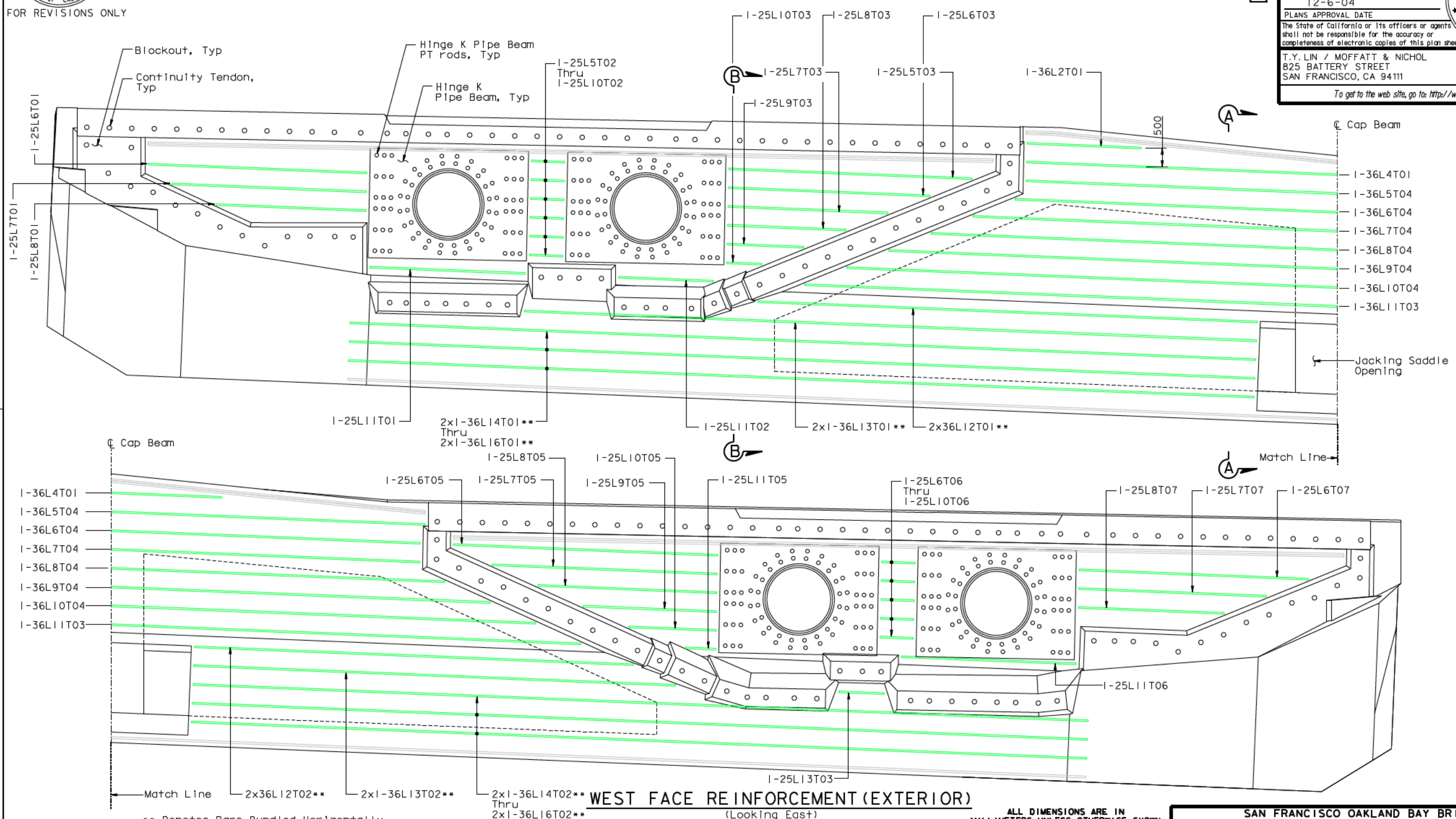

** Denotes Bars Bundled Horizontally

WEST FACE REINFORCEMENT (EXTERIOR)

(Looking East)
1:50

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

R. Vallzadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 05/22/06

DESIGN	BY J. Sun	CHECKED M. Chen	
DETAILS	BY J. Duxbury	CHECKED M. Chen	
QUANTITIES	BY S. Shi	CHECKED 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)

W2 CAP BEAM REINFORCEMENT DETAILS NO.19

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 075RI OF

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USERNAME -> vlgnatovs DATE PLOTTED -> 07 JUN 2006 TIME PLOTTED -> 09:30:43

MARK	DATE	DESCRIPTIONS	BY	CH'D
1	05/22/06	W2 CAP BEAM ISD	JD	AS

REVISIONS

CONTRACT CHANGE ORDER NO. _____
SHEET ___ OF ___

FOR REVISIONS ONLY

NOTES:

1. For Section A-A and B-B, see "W2 Cap Beam Reinforcement Details No. 22" sheet.

Caltrans Metric

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	493R1	1204

REGISTERED ENGINEER - CIVIL

12-6-04
PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER — John Sun — No. C 54648 — Exp. 12/31/05 — CIVIL — STATE OF CALIFORNIA

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SAN FRANCISCO, CA 94111

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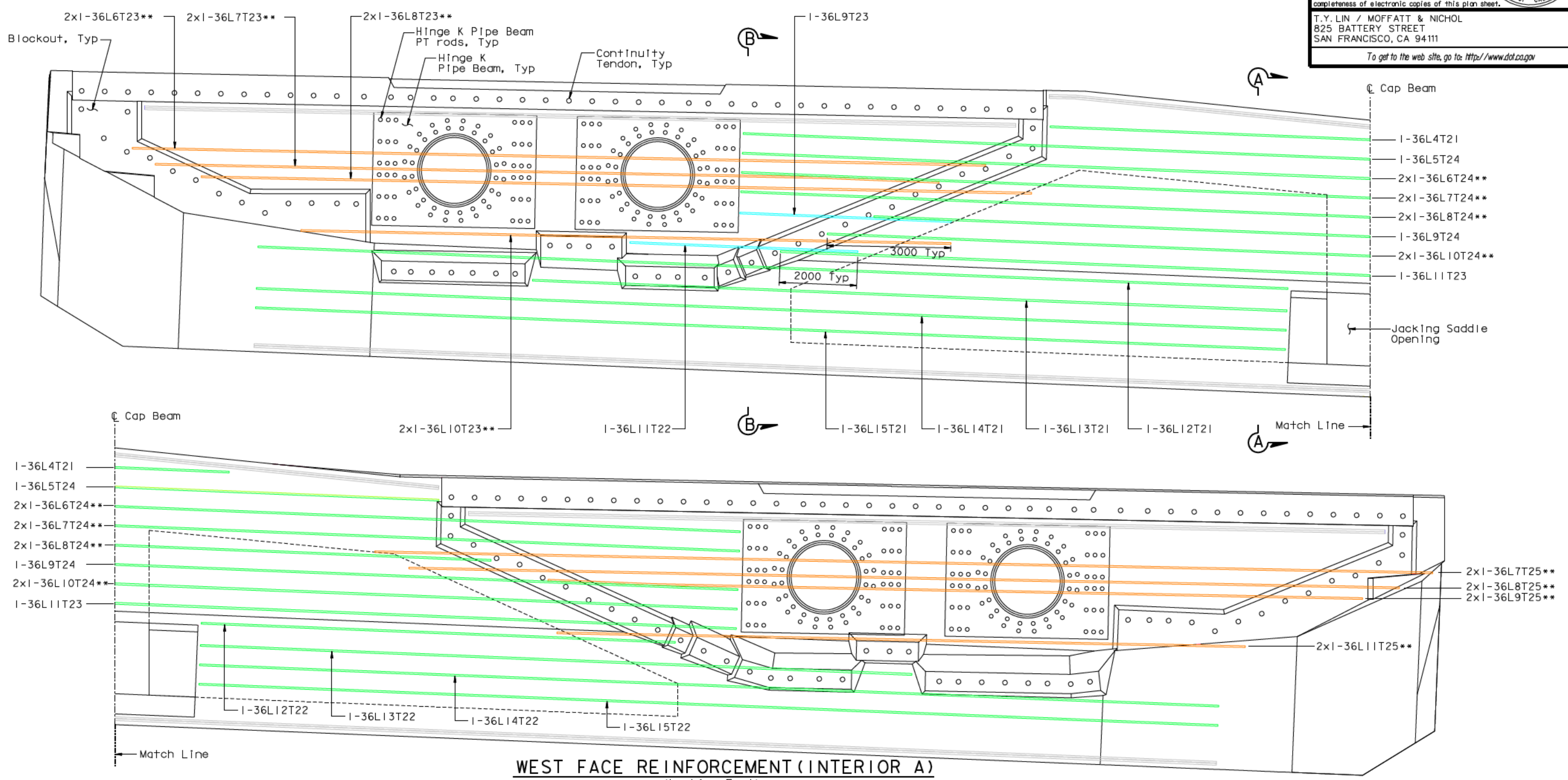

WEST FACE REINFORCEMENT (INTERIOR A)

(Looking East)
1:50

** Denotes Bars Bundled Horizontally

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

R. Valizadeh/V. Toan/Y. L./W. L./F. C.
DESIGN OVERSIGHT
SIGN OFF DATE 05/22/06

	BY	CHECKED
DESIGN	J. Sun	M. Chen
DETAILS	J. Duxbury	M. Chen
QUANTITIES	S. Shi	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)

W2 CAP BEAM REINFORCEMENT DETAILS NO. 20

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 076R1 OF

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MARK	DATE	DESCRIPTIONS	BY	CH'D
1	05/22/06	W2 CAP BEAM ISD	JD	AS

REVISIONS

CONTRACT CHANGE ORDER NO. _____

SHEET ___ OF ___

FOR REVISIONS ONLY

NOTES:

1. For Section B-B, see "W2 Cap Beam Reinforcement Details No. 22" sheet.

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	494RI	1204

REGISTERED ENGINEER - CIVIL

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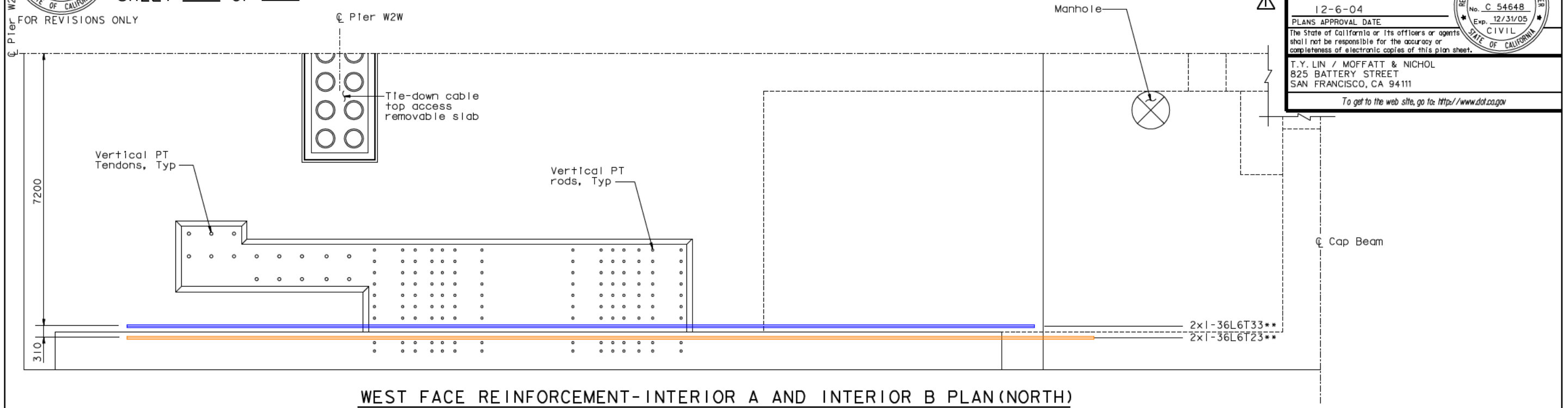
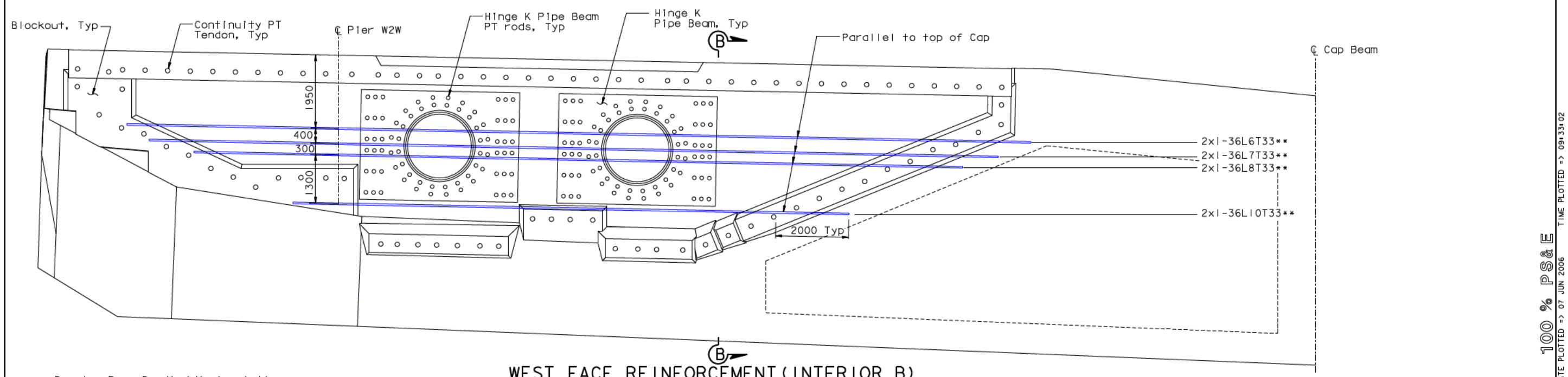


WEST FACE REINFORCEMENT-INTERIOR A AND INTERIOR B PLAN(NORTH)

(Looking East)(South Side Similar)

1:50



WEST FACE REINFORCEMENT(INTERIOR B)

(Looking East)(South Side Similar)

1:50

** Denotes Bars Bundled Horizontally

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

R. Vallzadeh/V. Toan/Y. L./W. L./F. C.
DESIGN OVERSIGHT
SIGN OFF DATE 05/22/06

	BY	CHECKED
DESIGN	J. Sun	M. Chen
DETAILS	J. Duxbury	M. Chen
QUANTITIES	S. Shi	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)

W2 CAP BEAM REINFORCEMENT DETAILS NO. 21

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 077RI OF

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100% PS&E

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USERNAME => vlgnatovsk

REGISTERED PROFESSIONAL ENGINEER
Patrick P. Duxbury
No. C 64677
Exp. 06/30/07
CIVIL
STATE OF CALIFORNIA

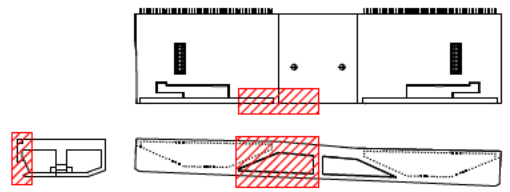
FOR REVISIONS ONLY

MARK	DATE	REVISIONS DESCRIPTIONS	BY	CH'D
1	05/22/06	W2 CAP BEAM ISD	JD	AS

CONTRACT CHANGE ORDER NO. _____
SHEET ___ OF ___

NOTES:

1. Top mat reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No.2 to No.8" sheets.
2. Bottom mat reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No.9 to No.18" sheets.
3. Horizontal and vertical stirrup reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No.40 to No.43" sheets.



LOCATION KEY
NTS

Caltrans Metric

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	495R1	1204

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

REGISTERED PROFESSIONAL ENGINEER
John Sun
No. C 54648
Exp. 12/31/05
CIVIL
STATE OF CALIFORNIA

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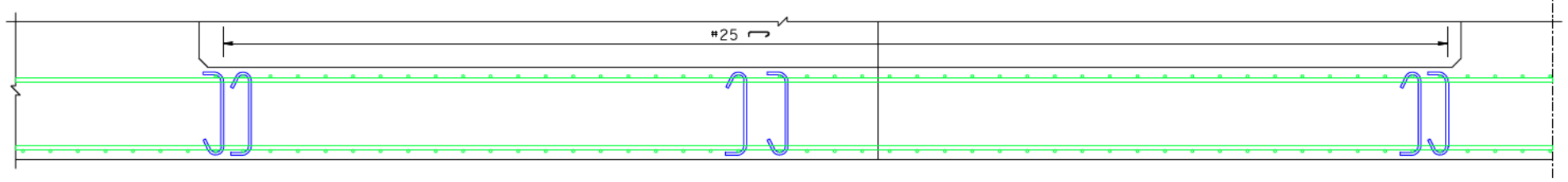
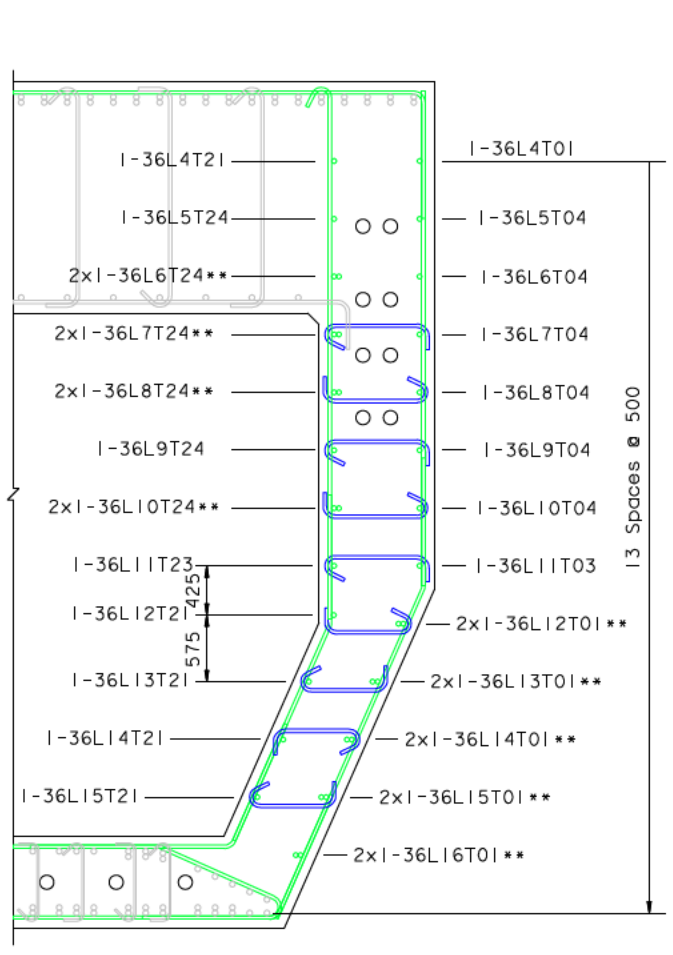
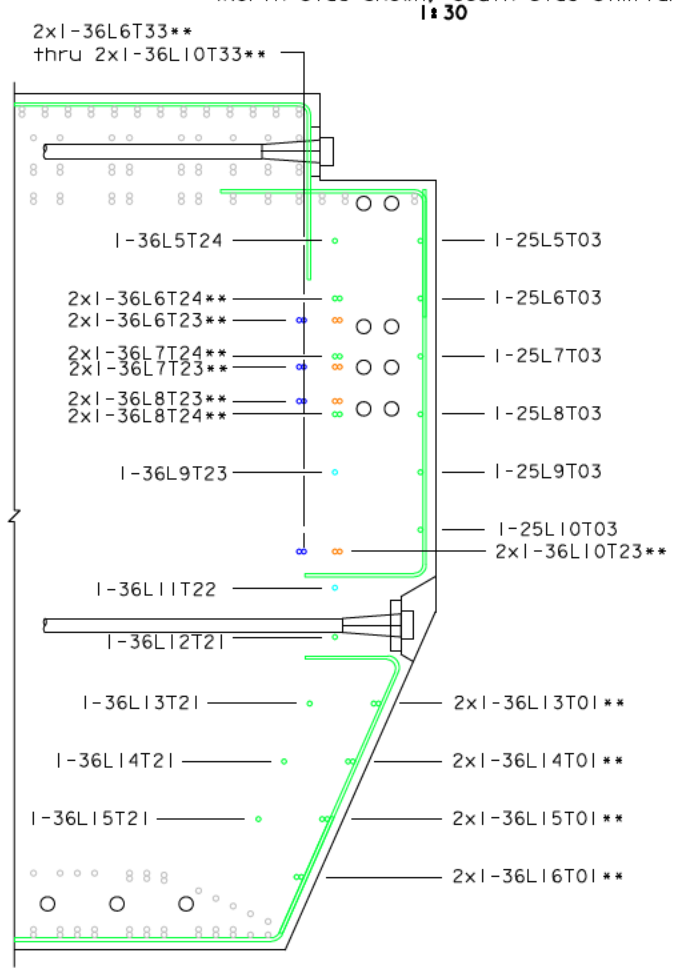


WEST FACE REINFORCEMENT-EXTERIOR AND INTERIOR A PLAN(NORTH)

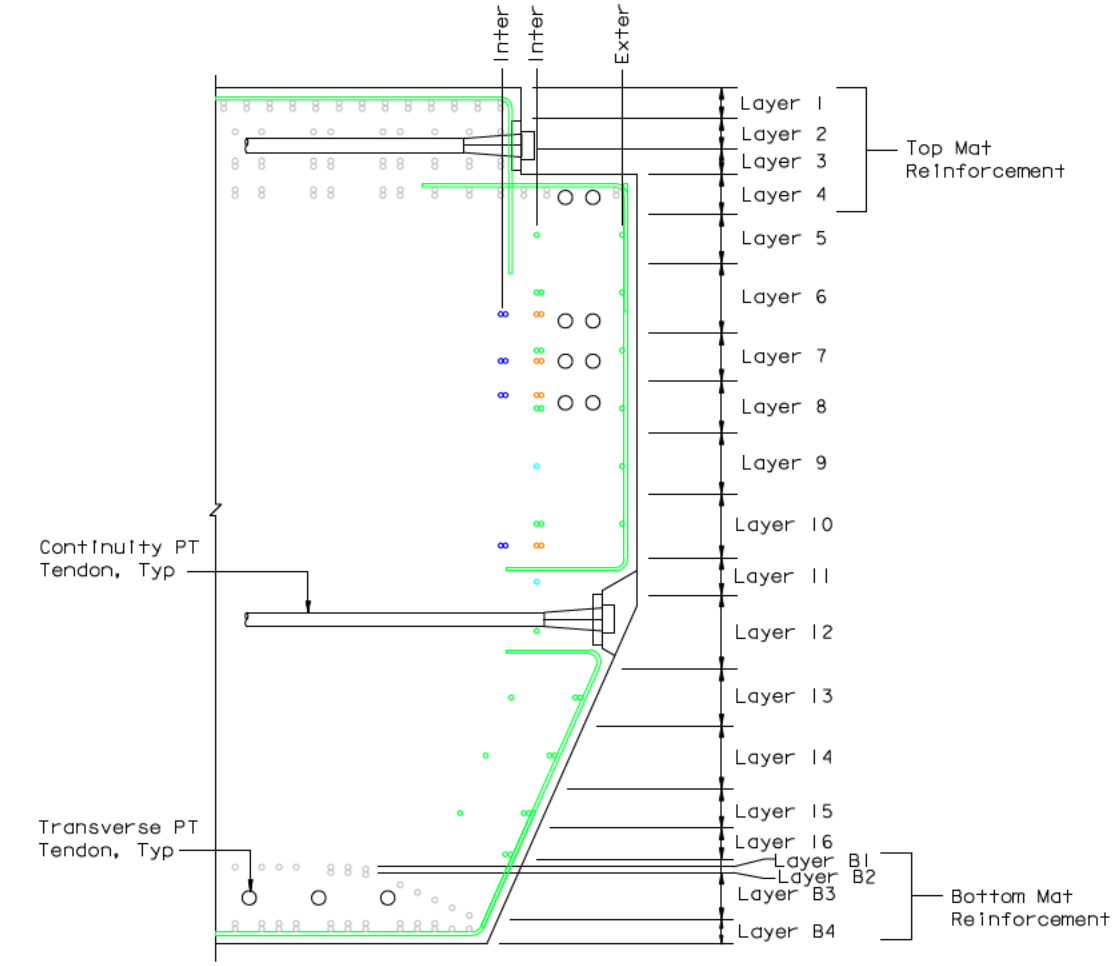
(North Side Shown, South Side Similar)
1:30



SECTION A-A



SECTION B-B



LAYER ID

WEST FACE REINFORCEMENT

(North Side Shown, South Side Similar)
1:30

** Denotes Bars Bundled Horizontally

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

100 % PS&E

TIME PLOTTED -> 09:35:25
DATE PLOTTED -> 07 JUN 2006
USERNAME -> vignatovs

R. Valizadeh/V.Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 05/22/06

	BY	CHECKED
DESIGN	J. Sun	M. Chen
DETAILS	J. Duxbury	M. Chen
QUANTITIES	S. Shi	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)

W2 CAP BEAM REINFORCEMENT DETAILS NO.22

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 | 12/19/02

SHEET 078R1 OF

FILE -> p:\bb\04-01200\sas readv august 2005\w2 - cco\aecap2lr-c.dgn

MARK	DATE	DESCRIPTIONS	BY	CH'D
1	05/22/06	W2 CAP BEAM ISD	JD	AS

REVISIONS

CONTRACT CHANGE ORDER NO. _____
SHEET ____ OF ____

FOR REVISIONS ONLY

NOTES:

1. For Section C-C and D-D, see "W2 Cap Beam Reinforcement Details No.25" sheet.

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	496R1	1204

REGISTERED ENGINEER - CIVIL

12-6-04
PLANS APPROVAL DATE

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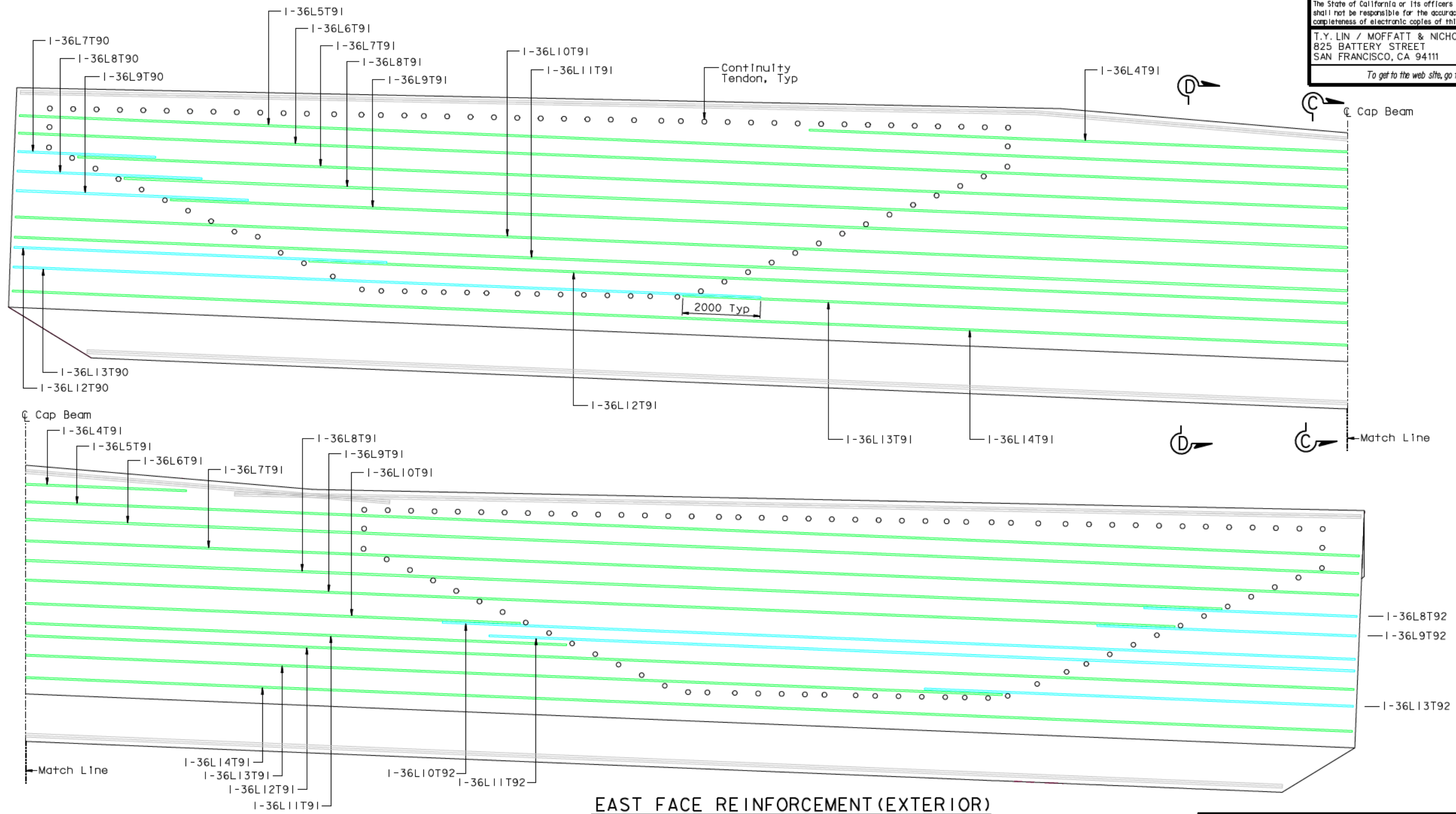

EAST FACE REINFORCEMENT (EXTERIOR)
(Looking West)
1:50

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

R. Vallizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 05/22/06

DESIGN	BY J. Sun	CHECKED M. Chen	
DETAILS	BY J. Duxbury	CHECKED M. Chen	
QUANTITIES	BY S. Shi	CHECKED 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)

W2 CAP BEAM REINFORCEMENT DETAILS NO. 23

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 | 07/31/02 | 12/19/02

SHEET 079R1 OF

FILE => p:\bb\04-012001\sas readv august 2005\w2 - cco\aecap23r-c.dgn

100% PS&E

USERNAME -> vlignatovs DATE PLOTTED -> 07 JUN 2006 TIME PLOTTED -> 09:36:50

PROFESSIONAL ENGINEER — Thomas P. Duxbury — No. C 64677 — Exp. 06/30/07 — CIVIL — STATE OF CALIFORNIA

MARK	DATE	DESCRIPTIONS	BY	CH'D
1	05/22/06	W2 CAP BEAM ISD	JD	AS
		REVISIONS		

CONTRACT CHANGE ORDER NO. _____
SHEET ___ OF ___
FOR REVISIONS ONLY

NOTES:

1. For Section C-C and D-D, see "W2 Cap Beam Reinforcement Details No.25" sheet.

Caltrans Metric

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	497R1	1204

REGISTERED ENGINEER - CIVIL

12-6-04
PLANS APPROVAL DATE

PROFESSIONAL ENGINEER — John Sun — No. C 54648 — Exp. 12/31/05 — CIVIL — STATE OF CALIFORNIA

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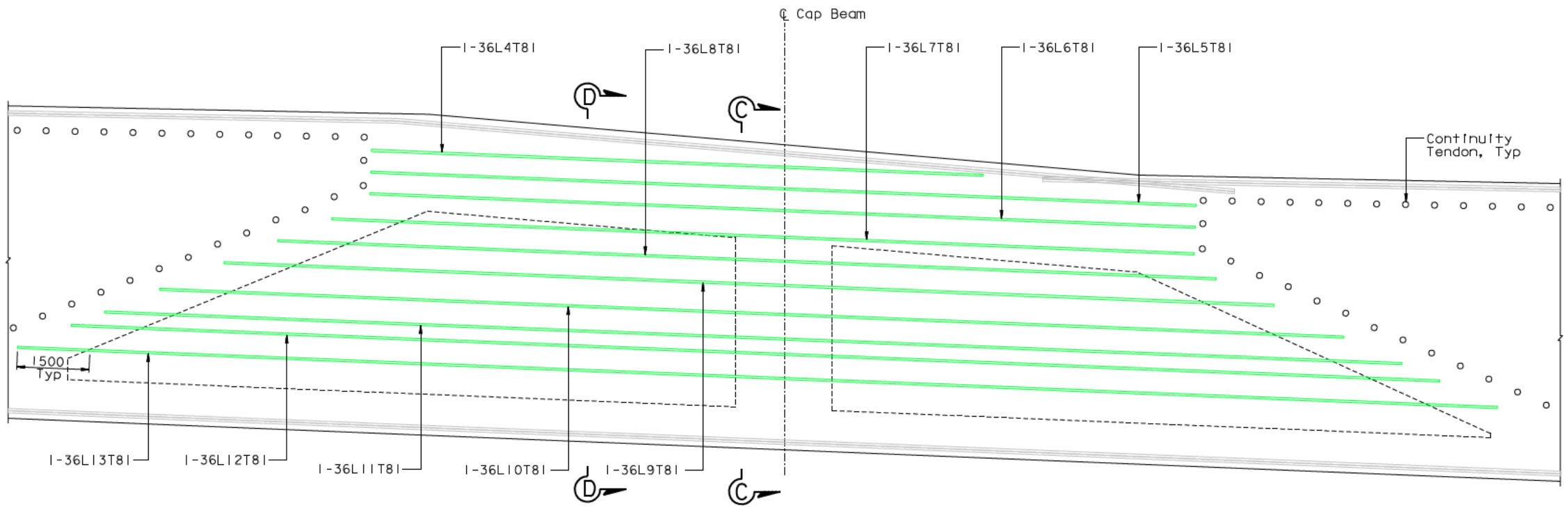


EAST FACE REINFORCEMENT (INTERIOR)
(Looking West)
1:50

100 % PS&E

USERNAME -> vignatovs DATE PLOTTED -> 07 JUN 2006 TIME PLOTTED -> 09:34:31

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

R. Valizadeh/V. Toan/Y. L./W. L./F. C.
DESIGN OVERSIGHT
Roya Valizadeh / Vong Toan / Y. Liu
SIGN OFF DATE 05/22/06

	BY	CHECKED
DESIGN	J. Sun	M. Chen
DETAILS	J. Duxbury	M. Chen
QUANTITIES	S. Shi	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)

W2 CAP BEAM REINFORCEMENT DETAILS NO. 24

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 →

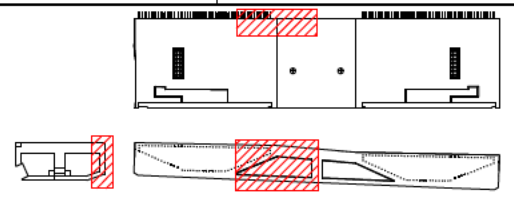
REVISION DATES (PRELIMINARY STAGE ONLY): 05/31/01 | 04/08/02 | 07/01/02 | 12/19/02

SHEET 080R1 OF

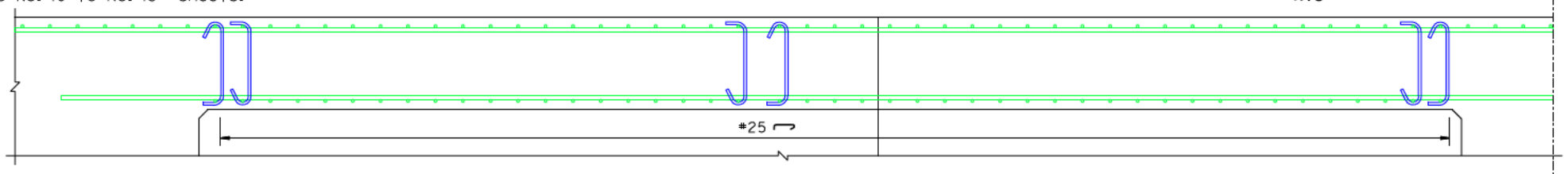
FILE -> p:\bb\04-0120f1\sas readv august 2005\w2 - cco\aecap22r-c.dgn

NOTES:

1. Top mat reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No. 2 to No. 8" sheets.
2. Bottom mat reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No. 9 to No. 18" sheets.
3. Horizontal and vertical stirrup reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No. 40 to No. 43" sheets.

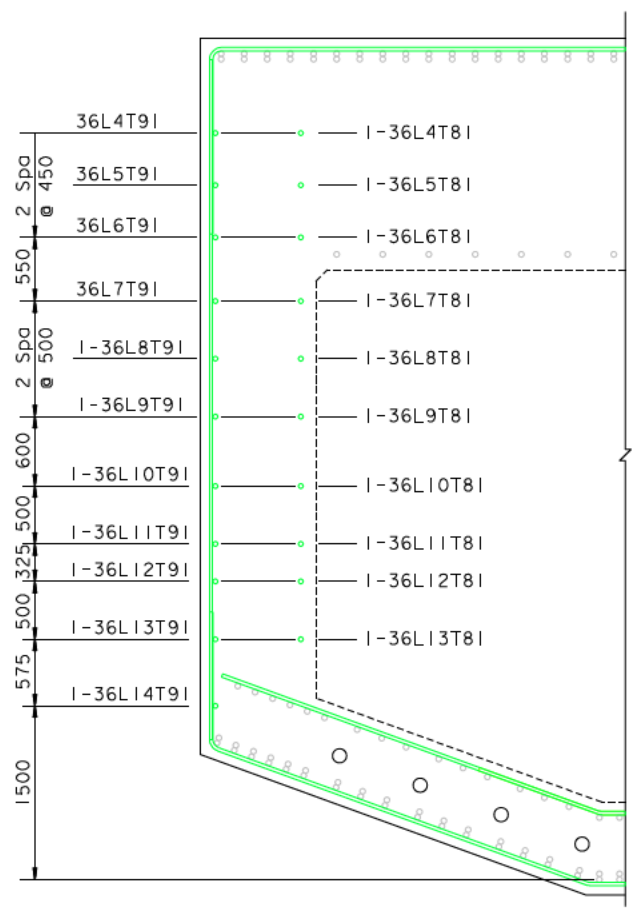


LOCATION KEY
NTS

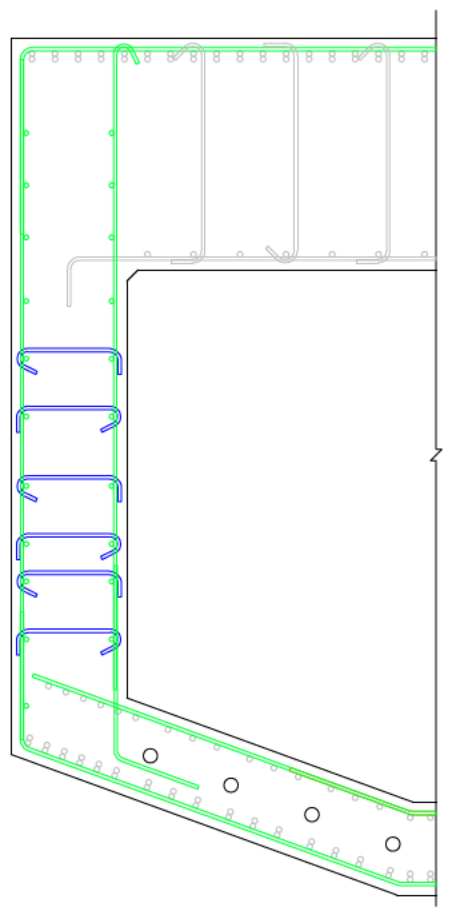


EAST FACE REINFORCEMENT-EXTERIOR AND INTERIOR PLAN (NORTH)

(North Side Shown, South Side Similar)
1:30

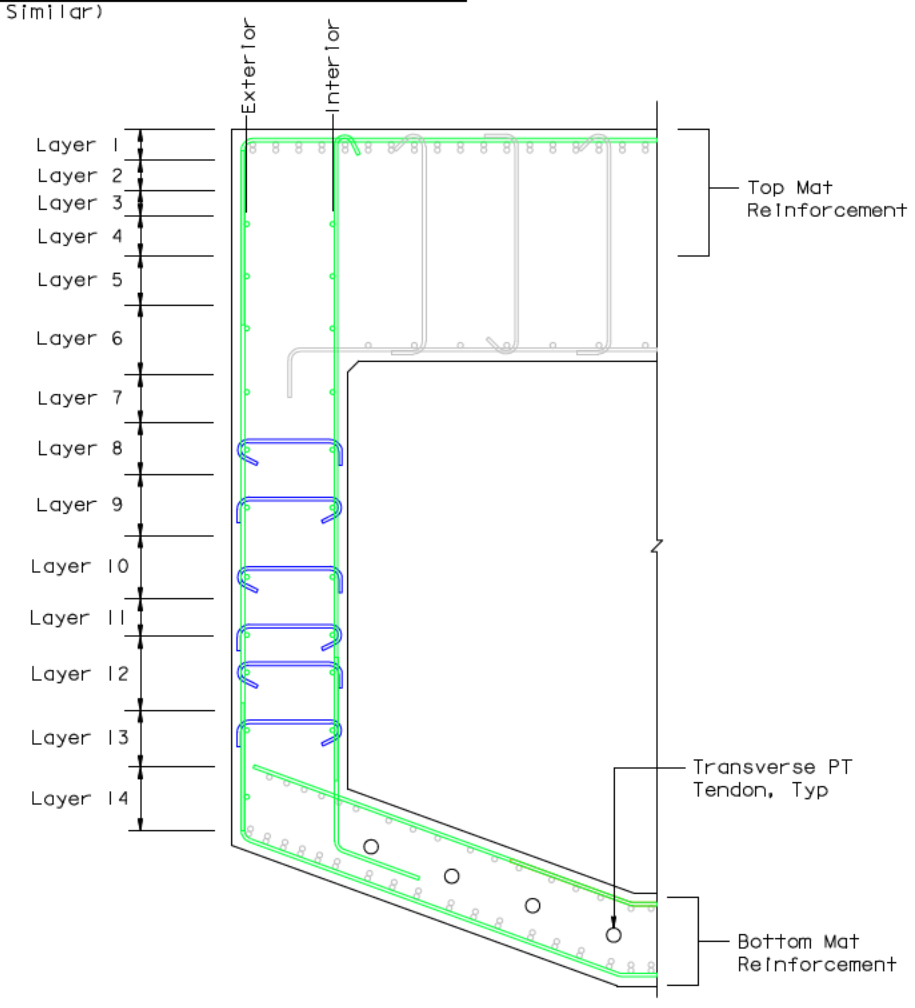


SECTION C-C



SECTION D-D

EAST FACE REINFORCEMENT
(North Side Shown, South Side Similar)
1:30



LAYER ID

SUPPLEMENTAL SHEET

CONTRACT CHANGE ORDER NO. ____
SHEET ___ OF ___

100 % PS&E

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	497SI	1204

REGISTERED ENGINEER - CIVIL
05-22-06
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — James P. Duxbury — No. C 64677 — Exp. 06/30/07 — CIVIL — STATE OF CALIFORNIA

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

W2 CAP BEAM REINFORCEMENT DETAILS NO. 25

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

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 05/22/06

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

FILE -> p:\bb\04-012001\sas readv august 2005\w2 - cco\aecap24r-c.dgn

Rev. Date: 5-18-98

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

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) 05/22/06

SHEET 080SI OF

DATE PLOTTED -> 07 JUN 2006 TIME PLOTTED -> 09:37:55
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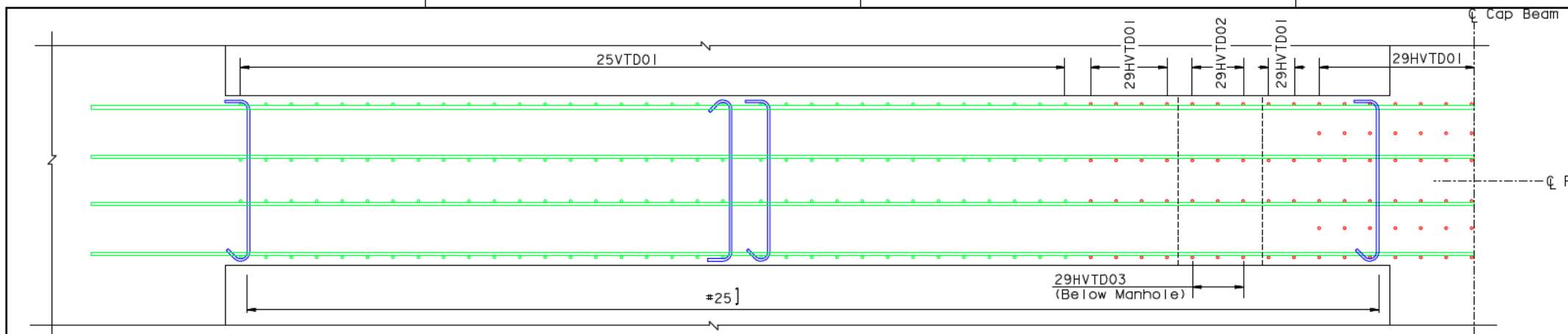
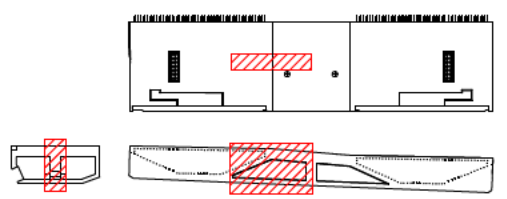


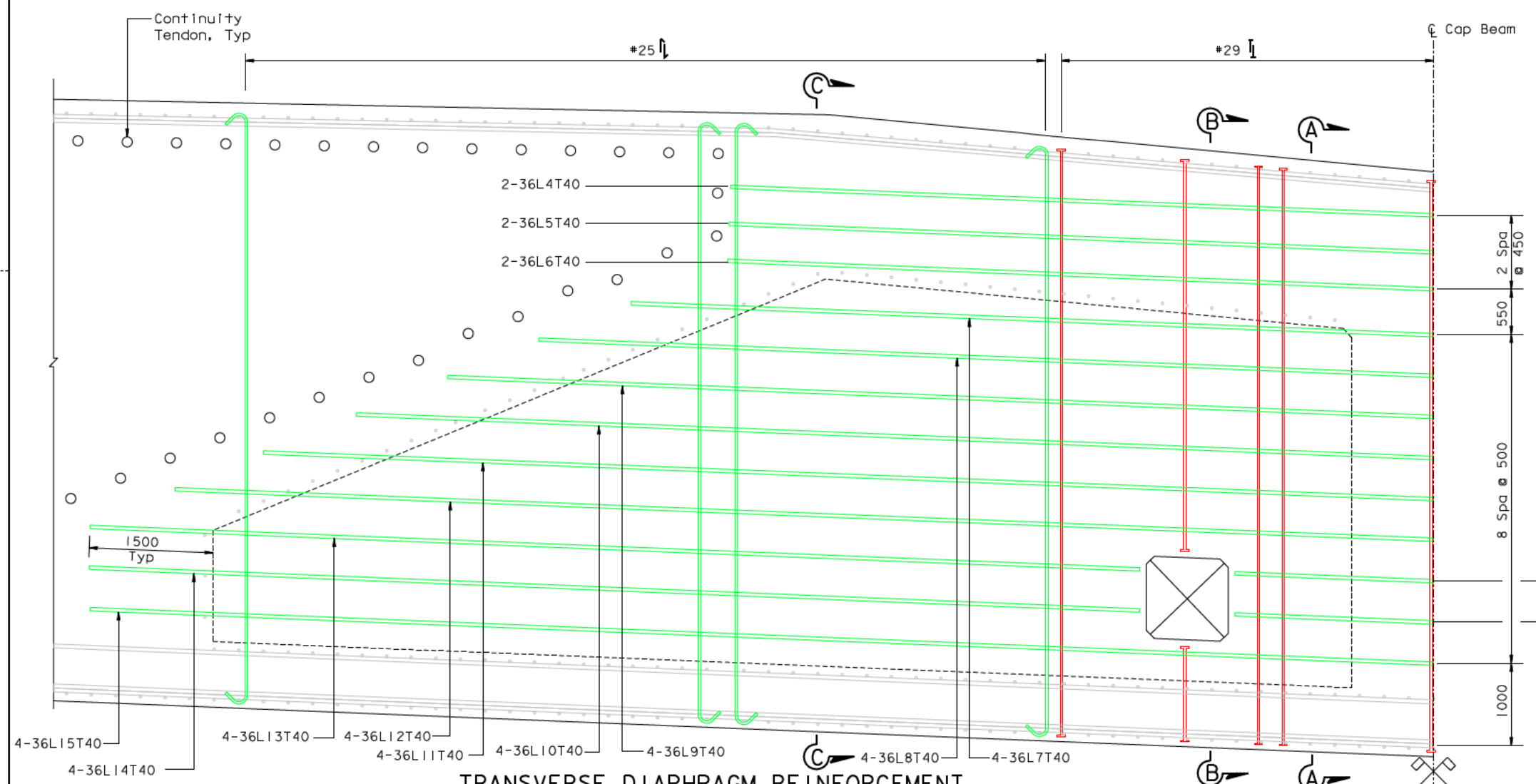
TRANSVERSE DIAPHRAGM REINFORCEMENT PLAN (NORTH)

(North Side Shown, South Side Similar)
1:30



LOCATION KEY

NTS



TRANSVERSE DIAPHRAGM REINFORCEMENT

(North Side Shown, South Side Similar)
1:30

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

NOTES:

1. For Section A-A thru C-C, see "W2 Cap Beam Reinforcement Details No.27" sheet.

SUPPLEMENTAL SHEET

CONTRACT CHANGE ORDER NO. _____
SHEET ____ OF ____

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	497S2	1204

REGISTERED ENGINEER - CIVIL
05-22-06
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
James P.Duxbury
No. C 64677
Exp. 06/30/07
CIVIL
STATE OF CALIFORNIA

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Caltrans Metric

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

W2 CAP BEAM REINFORCEMENT DETAILS NO. 26

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 05/22/06

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

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 05/22/06

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET 080S2 OF

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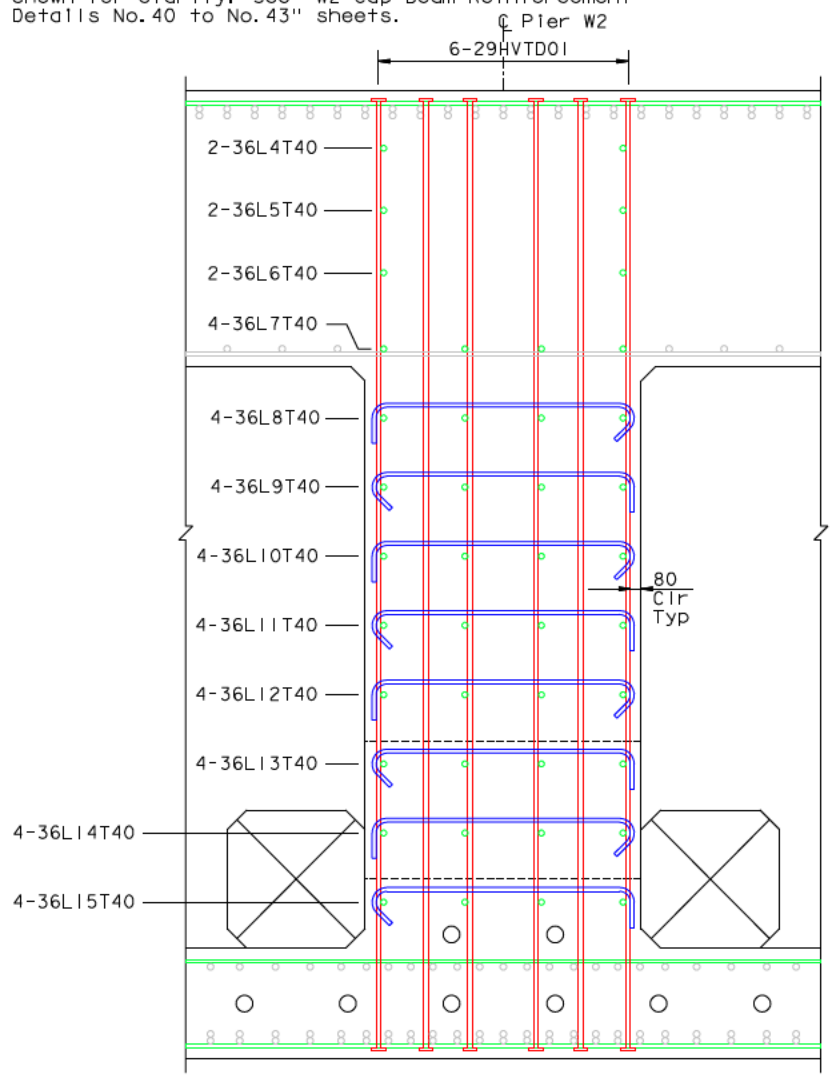
100 % PS&E

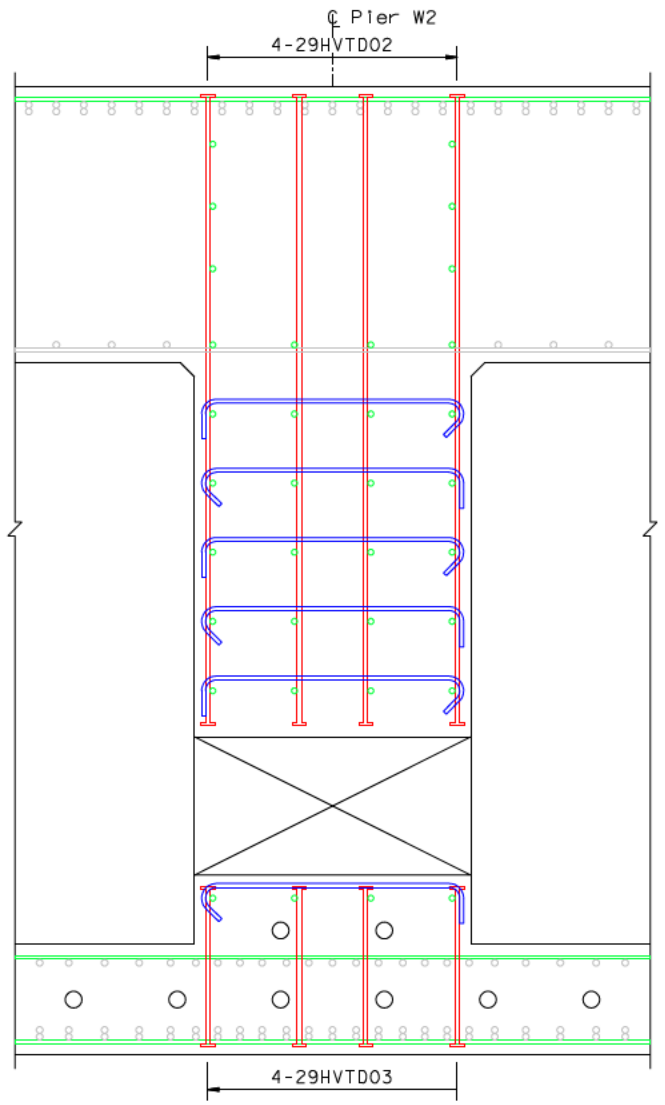
USERNAME => vignotovsk DATE PLOTTED => 07 JUN 2006 TIME PLOTTED => 09:41:13

NOTES:

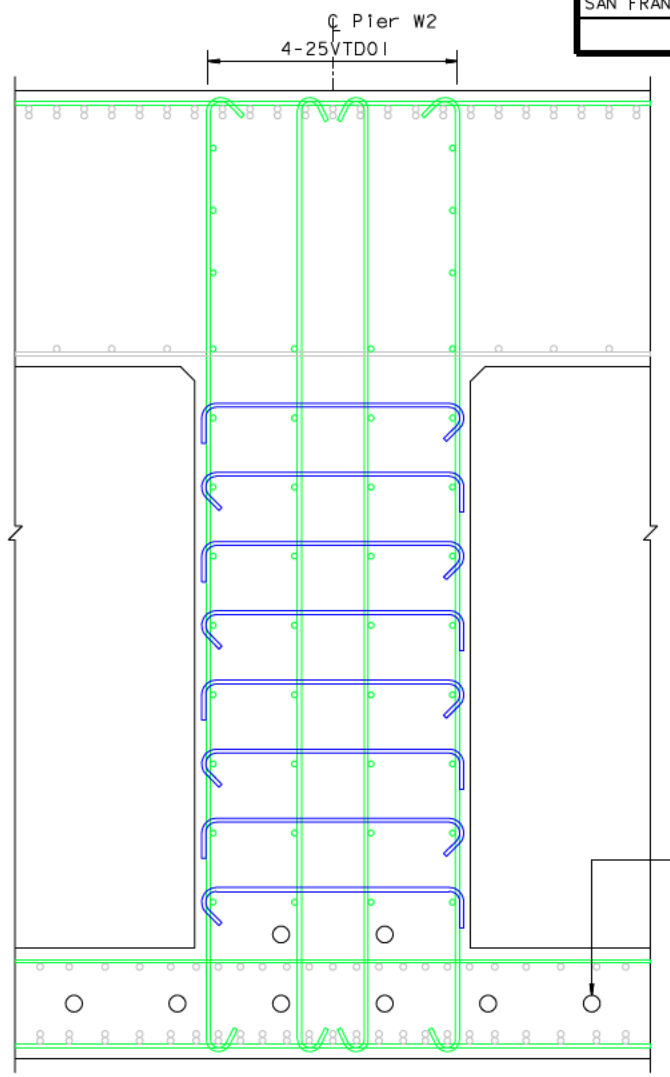
1. Top mat reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No. 2 to No. 8" sheets.
2. Bottom mat reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No. 9 to No. 18" sheets.
3. Jacking Saddle reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No. 30 to No. 33" sheets.
4. Horizontal and vertical stirrup reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No. 40 to No. 43" sheets.



SECTION A-A



SECTION B-B



SECTION C-C

TRANSVERSE DIAPHRAGM REINFORCEMENT

(North Side Shown, South Side Similar)

1:30

SUPPLEMENTAL SHEET

CONTRACT CHANGE ORDER NO. _____

SHEET ___ OF ___

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	497S3	1204

REGISTERED ENGINEER - CIVIL

James P. Duxbury, No. C 64677, Exp. 06/30/07, CIVIL, REGISTERED PROFESSIONAL ENGINEER, STATE OF CALIFORNIA

05-22-06

PLANS APPROVAL DATE

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EAST SPAN SEISMIC SAFETY PROJECT
SELF-ANCHORED SUSPENSION BRIDGE
(SUPERSTRUCTURE & TOWER)

W2 CAP BEAM REINFORCEMENT DETAILS NO. 27

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

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. Vaziazadeh/V. Toan/Y.L./W.L./F.C., DESIGN OVERSIGHT
SIGN OFF DATE 05/22/06

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

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REVISION DATES (PRELIMINARY STAGE ONLY): 05/22/06

SHEET 080S3 OF

FILE => p:\bb\04-0120f1\sas readv august 2005\w2 - cco\aecap26r-s.dgn

100% PS&E

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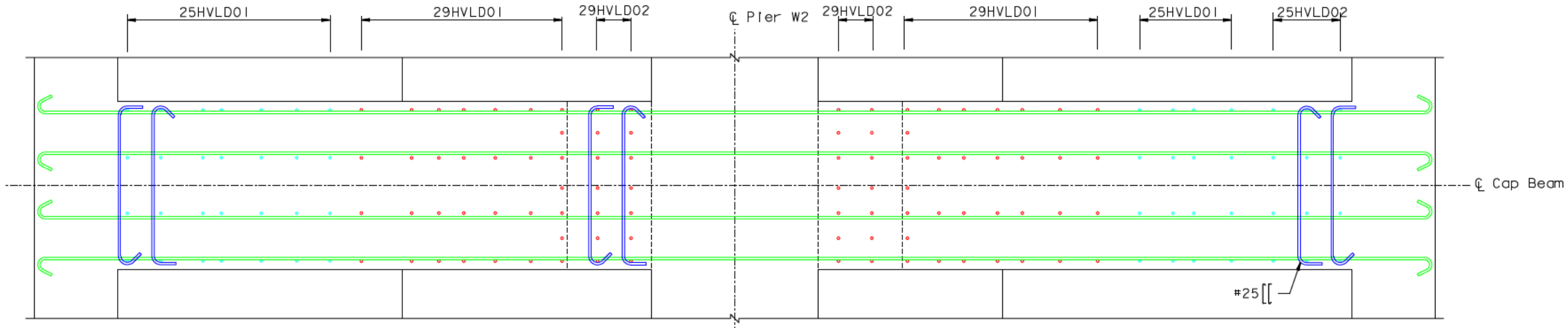
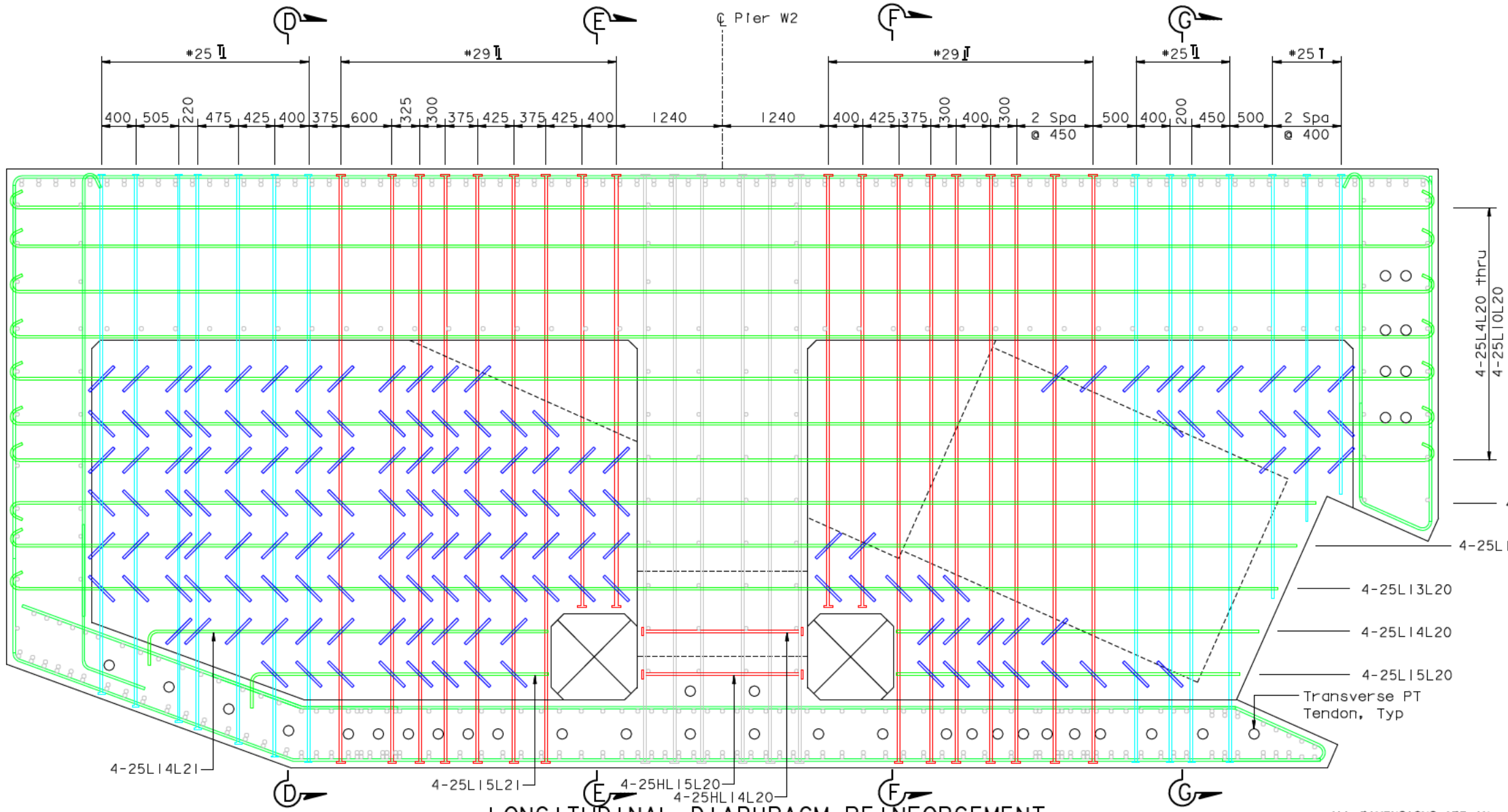
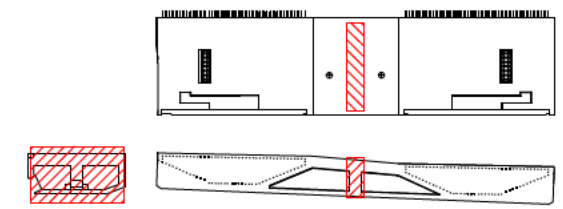


LONGITUDINAL DIAPHRAGM REINFORCEMENT PLAN
1:30



LONGITUDINAL DIAPHRAGM REINFORCEMENT
1:30



LOCATION KEY
NTS

NOTES:

1. For Section D-D thru G-G, see "W2 Cap Beam Reinforcement Details No.29" sheet.

SUPPLEMENTAL SHEET

CONTRACT CHANGE ORDER NO. _____
SHEET ____ OF ____

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	497S4	1204

REGISTERED ENGINEER - CIVIL
05-22-06
PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER James P.Duxbury No. C 64677 Exp. 06/30/07 CIVIL STATE OF CALIFORNIA

T.Y. LIN / MOFFATT & NICHOL
825 BATTERY STREET
SAN FRANCISCO, CA 94111

To get to the web site, go to: http://www.dot.ca.gov

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

W2 CAP BEAM REINFORCEMENT DETAILS NO. 28

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 05/22/06

	BY	CHECKED
DESIGN	J. Duxbury	A. Sanjines
DETAILS	J. Duxbury	A. Sanjines
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

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 05/22/06

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET 080S4 OF

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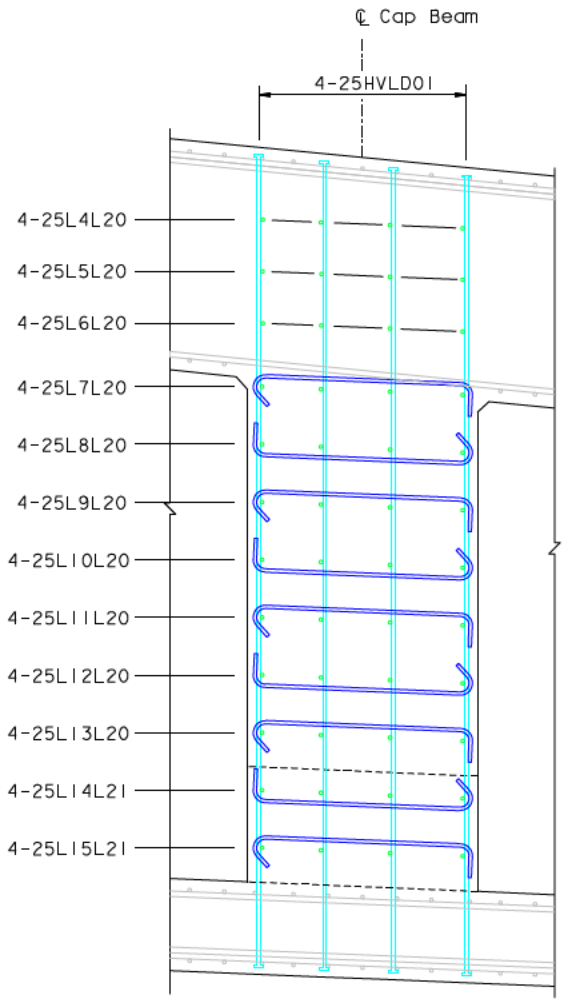
100 % PS&E

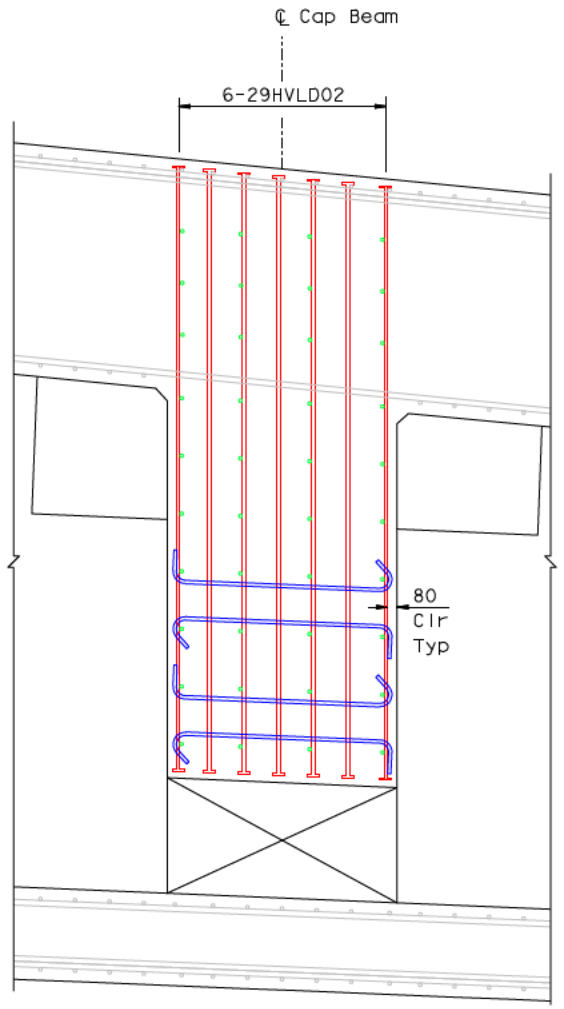
USERNAME => vignatovsk DATE PLOTTED => 07 JUN 2006 TIME PLOTTED => 11:18:22

NOTES:

1. Top mat reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No. 2 to No. 8" sheets.
2. Bottom mat reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No. 9 to No. 18" sheets.
3. Jacking Saddle reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No. 30 to No. 33" sheets.
4. Horizontal and vertical stirrup reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No. 40 to No. 43" sheets.



SECTION D-D



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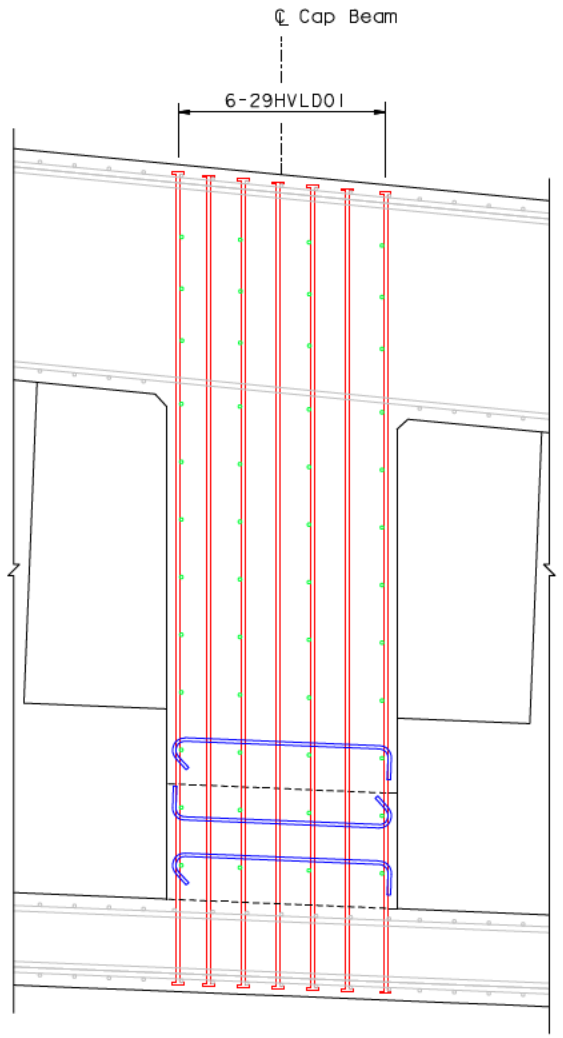
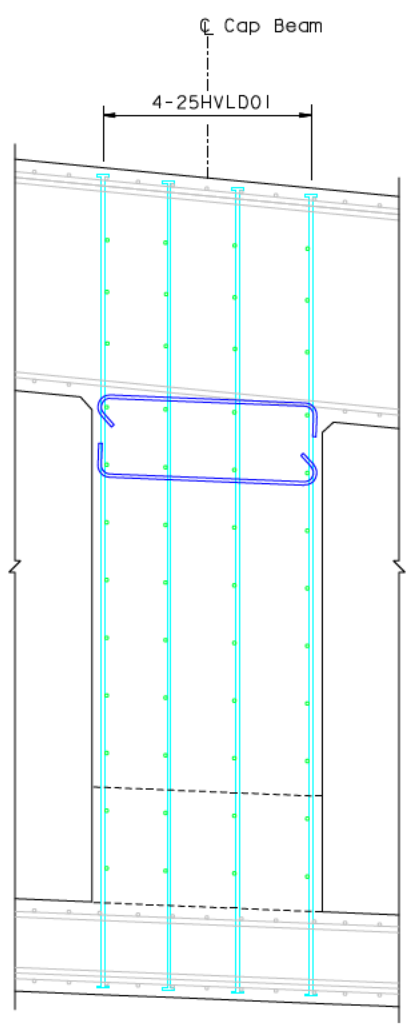


SECTION F-F



SECTION G-G

LONGITUDINAL DIAPHRAGM REINFORCEMENT

1:30

SUPPLEMENTAL SHEET

CONTRACT CHANGE ORDER NO. _____

SHEET ____ OF ____

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	49755	1204

REGISTERED ENGINEER - CIVIL

James P. Duxbury No. C 64677 Exp. 06/30/07 CIVIL

05-22-06

PLANS APPROVAL DATE

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T.Y. LIN / MOFFATT & NICHOL
825 BATTERY STREET
SAN FRANCISCO, CA 94111

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ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

R. Vallizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 05/22/06

	BY	CHECKED
DESIGN	J. Duxbury	A. Sunjines
DETAILS	J. Duxbury	A. Sunjines
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)

W2 CAP BEAM REINFORCEMENT DETAILS NO. 29

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): 05/22/06

SHEET 080S5 OF

FILE => p:\bb\04-012001\sas readv august 2005\w2 - cco\aecap28r-s.dgn

100% PS&E

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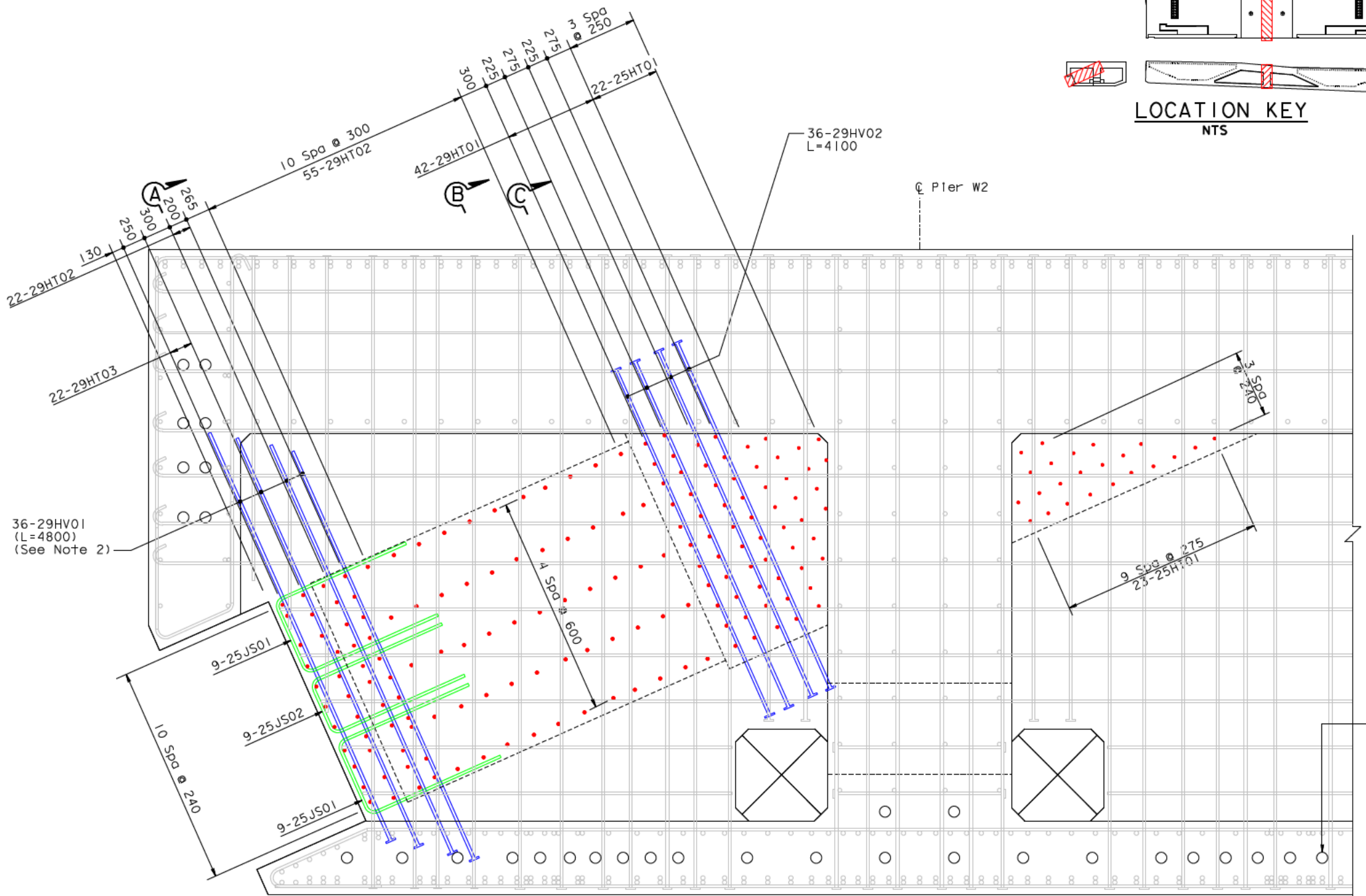

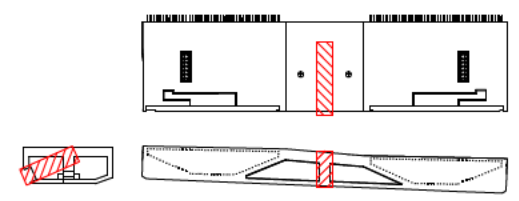

LOCATION KEY
NTS

JACKING SADDLE REINFORCEMENT
(Jacking Frame At Longitudinal Diaphragm)
1:25

NOTES:

1. For Section A-A thru C-C, see "W2 Cap Beam Reinforcement Details No.32" sheet.
2. Extend headed bar beyond Bottom Mat Layer B1.

SUPPLEMENTAL SHEET

CONTRACT CHANGE ORDER NO. _____
SHEET ___ OF ___

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	497S6	1204

REGISTERED ENGINEER - CIVIL
James P.Duxbury No. C 64677 Exp. 06/30/07 CIVIL
05-22-06
PLANS APPROVAL DATE

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825 BATTERY STREET
SAN FRANCISCO, CA 94111

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R. Valizadeh/V. Toan/Y. L./W. L./F. C.
DESIGN OVERSIGHT
SIGN OFF DATE 05/22/06

	BY	CHECKED
DESIGN	J. Duxbury	A. Sanjines
DETAILS	J. Duxbury	A. Sanjines
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)
W2 CAP BEAM REINFORCEMENT 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

CU 04
EA 0120F1

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 05/22/06

SHEET 080S6 OF

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100 % PS&E
TIME PLOTTED -> 09:46:11
DATE PLOTTED -> 07 JUN 2006
USERNAME -> vignatova

NOTES:

1. For Section A-A thru C-C, see "W2 Cap Beam Reinforcement Details No.32" sheet.

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	497S7	1204

REGISTERED ENGINEER - CIVIL

James P. Duxbury
No. C 64677
Exp. 06/30/07
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

05-22-06
PLANS APPROVAL DATE

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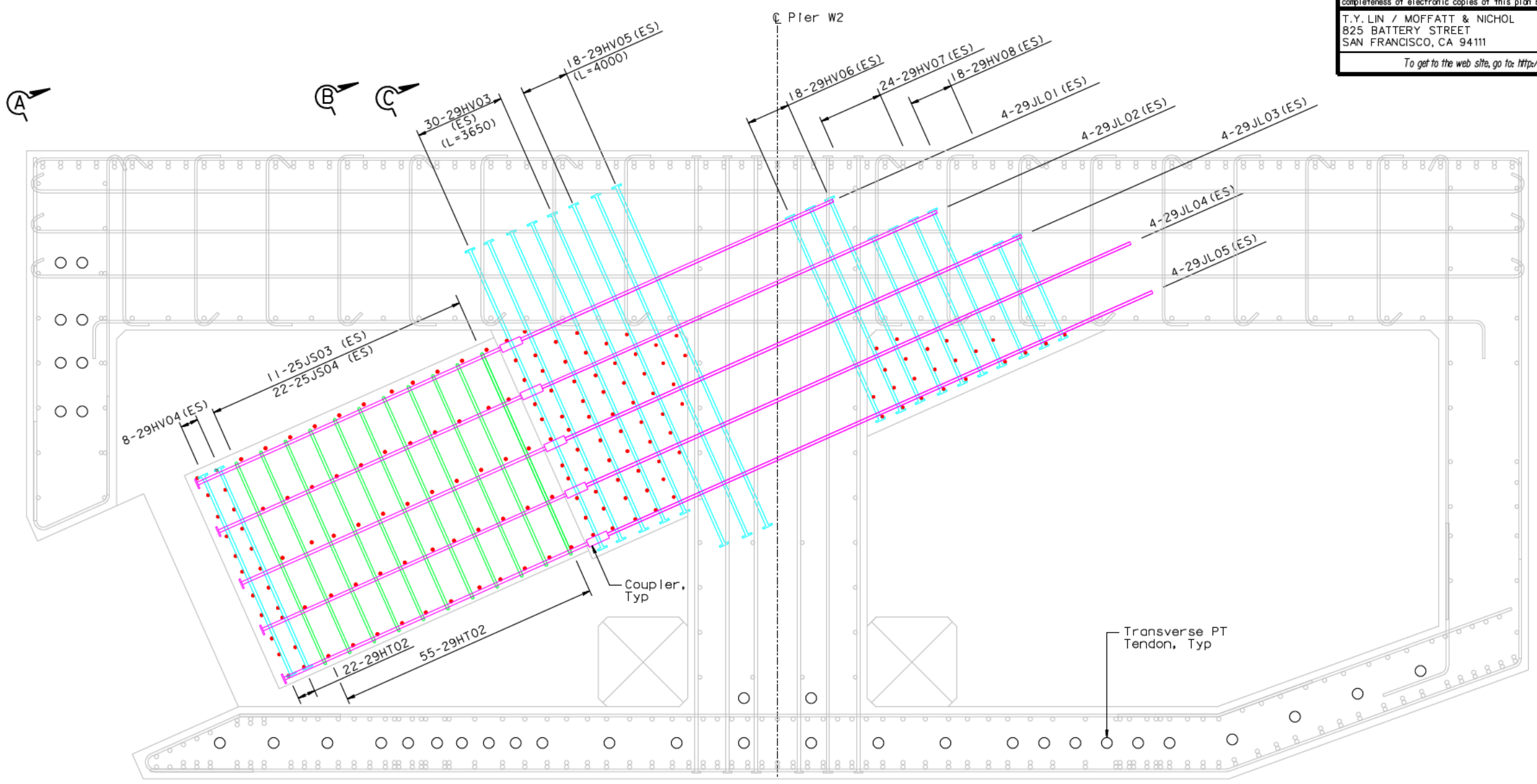

A B C

JACKING SADDLE REINFORCEMENT
(Jacking Frame At Support Block)
1:25

SUPPLEMENTAL SHEET
CONTRACT CHANGE ORDER NO. ____
SHEET ___ OF ___

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)

W2 CAP BEAM REINFORCEMENT DETAILS NO. 31

R. Valizadeh/V. Toan/Y. L./W. L./F. C.
DESIGN OVERSIGHT
SIGN OFF DATE 05/22/06

	BY	CHECKED
DESIGN	J. Duxbury	A. Sanjines
DETAILS	J. Duxbury	A. Sanjines
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

Rev. Date: 5-18-98

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

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)										SHEET	OF
05/22/06										080S7	

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USERNAME -> vignatovs DATE PLOTTED -> 07 JUN 2006 TIME PLOTTED -> 09:47:15

SUPPLEMENTAL SHEET

CONTRACT CHANGE ORDER NO. _____
SHEET ____ OF ____

NOTES:

1. Top mat reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No.2 to No.8" sheets.
2. Bottom mat reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No.9 to No.18" sheets.
3. Diaphragm reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No.26 to No.29" sheets.
4. Horizontal and vertical stirrup reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No.40 to No.43" sheets.

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	497S8	1204

REGISTERED ENGINEER - CIVIL

05-22-06
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
James P.Duxbury
No. C 64677
Exp. 06/30/07
CIVIL
STATE OF CALIFORNIA

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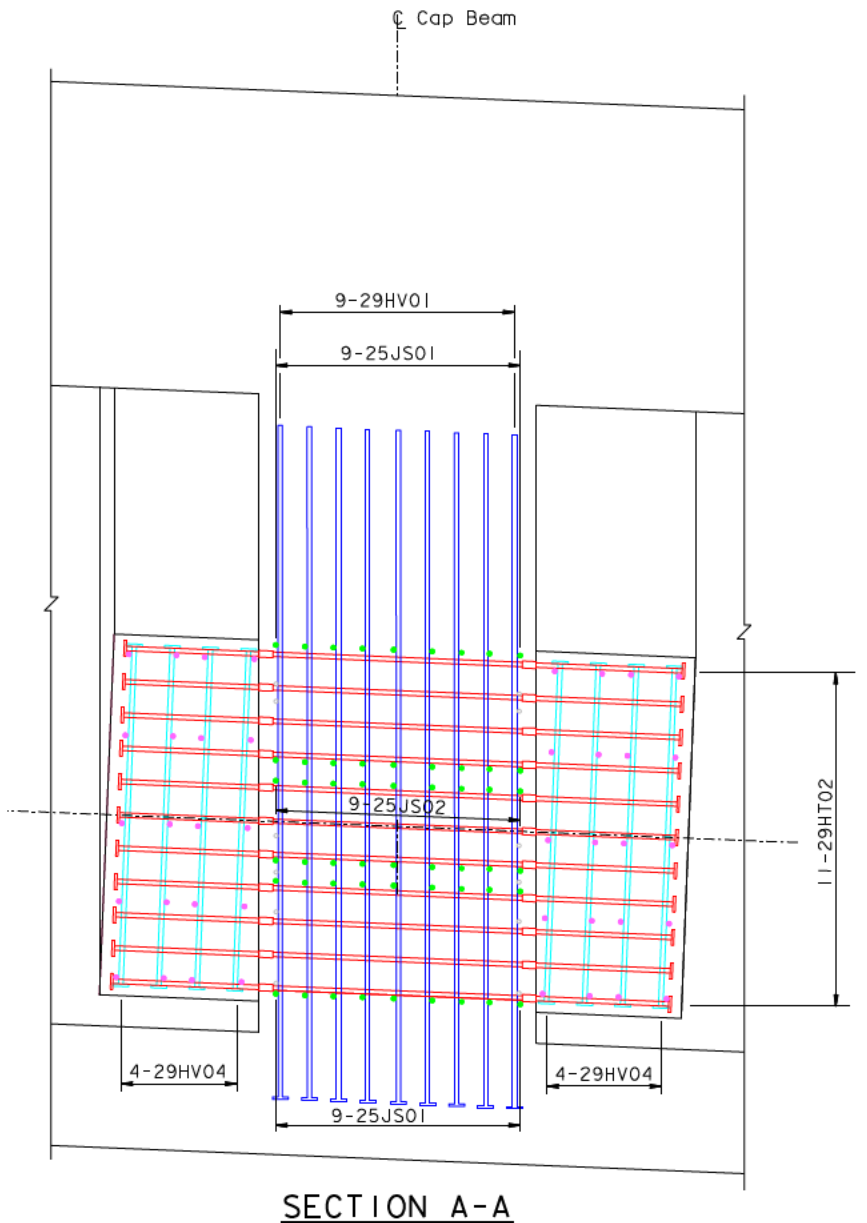
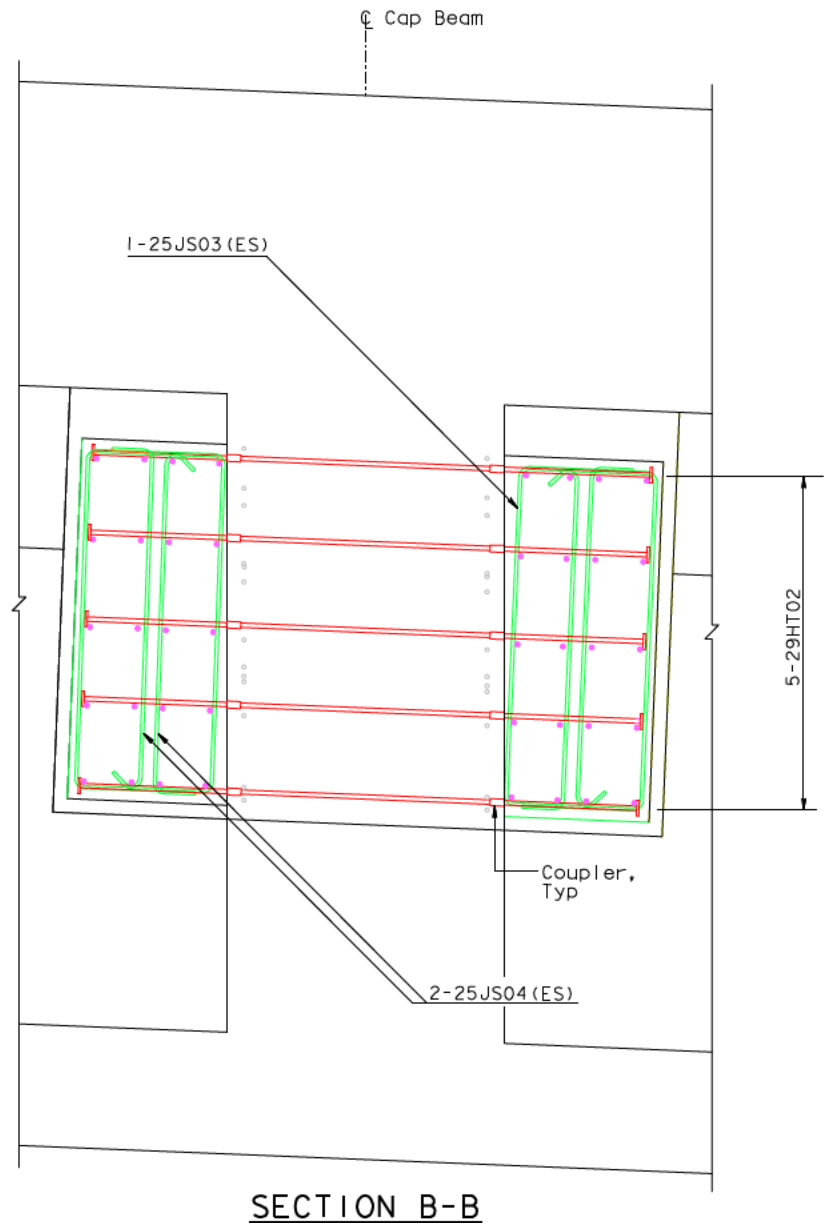


SECTION A-A



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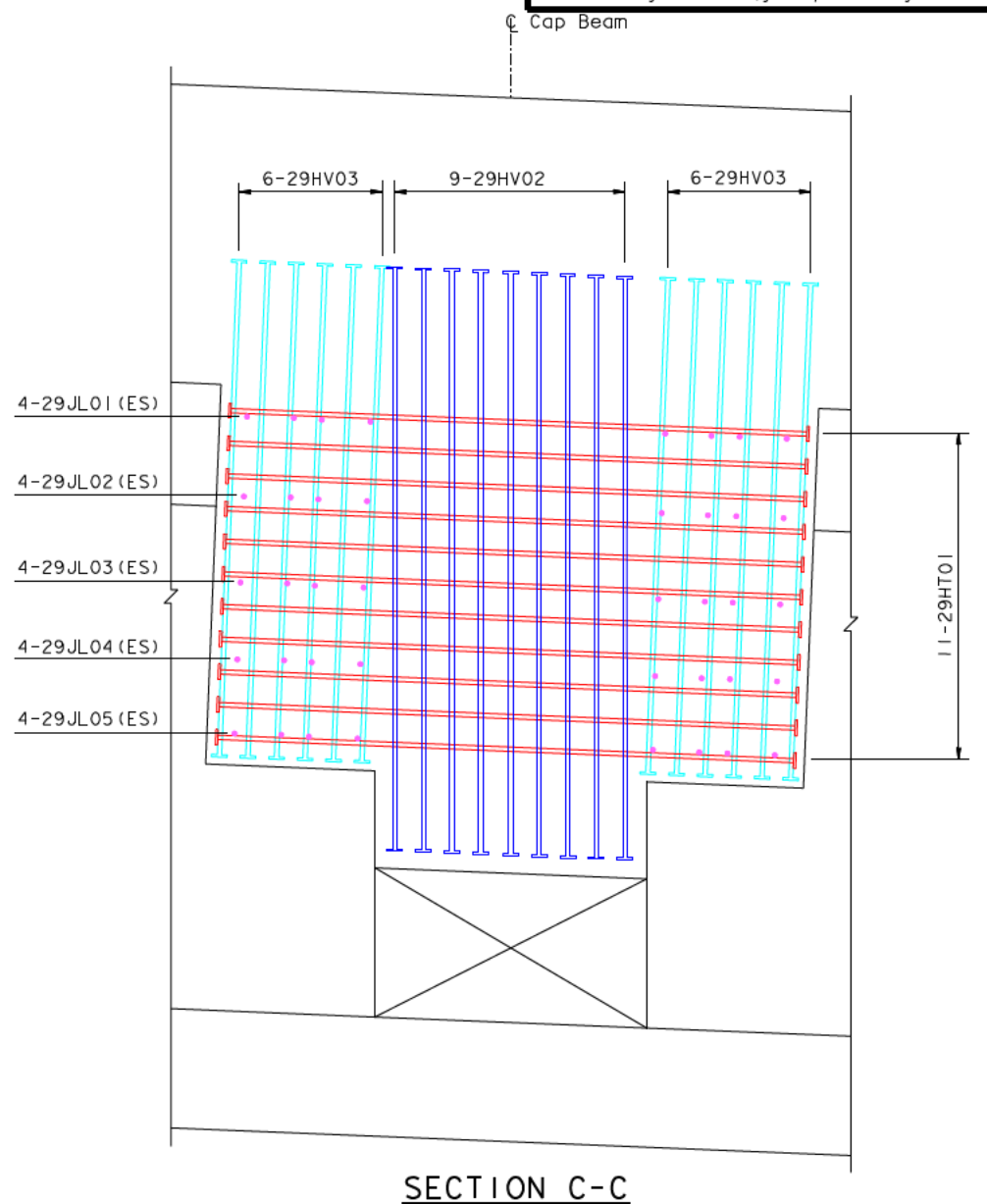

SECTION C-C

JACKING SADDLE REINFORCEMENT
1:30

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

R. Valizadeh/V.Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 05/22/06

	BY	CHECKED
DESIGN	J. Duxbury	A. Sanjines
DETAILS	J. Duxbury	A. Sanjines
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)

W2 CAP BEAM REINFORCEMENT DETAILS NO. 32

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 05/22/06

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET 080S8 OF

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100 % PS&E

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DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	497S9	1204

REGISTERED ENGINEER - CIVIL

05-22-06

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
James P.Duxbury
No. C 64677
Exp. 06/30/07
CIVIL
STATE OF CALIFORNIA

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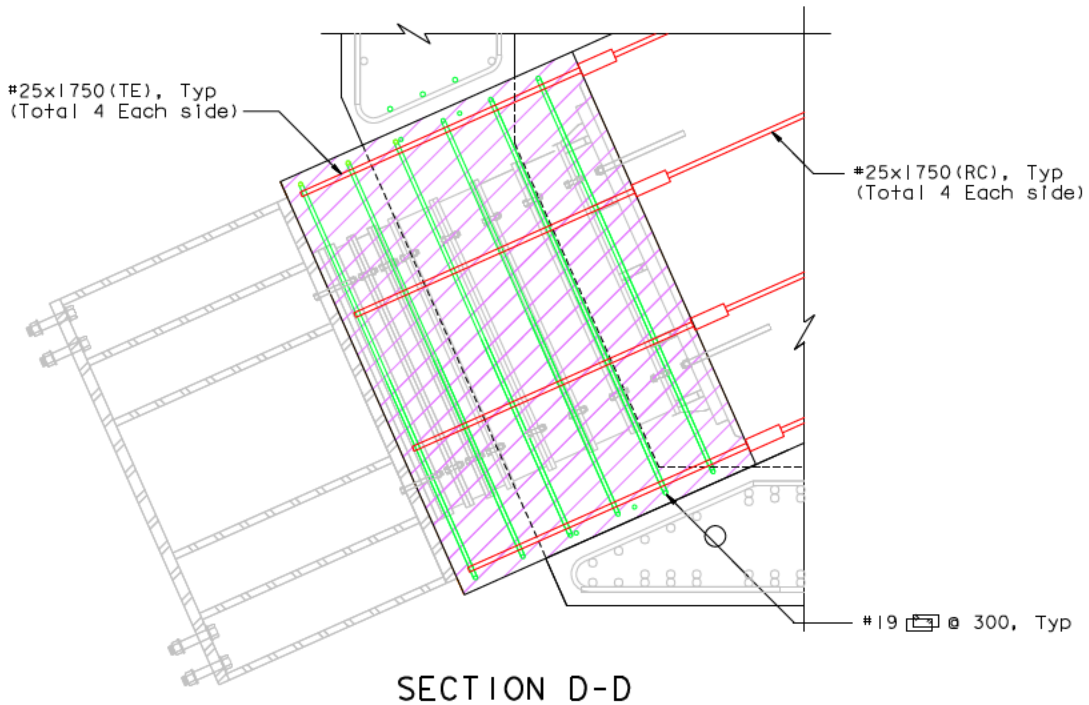
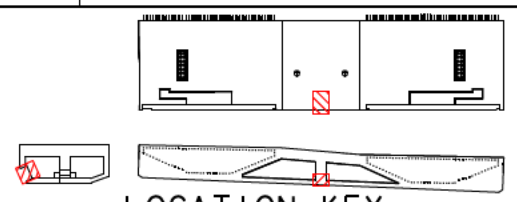
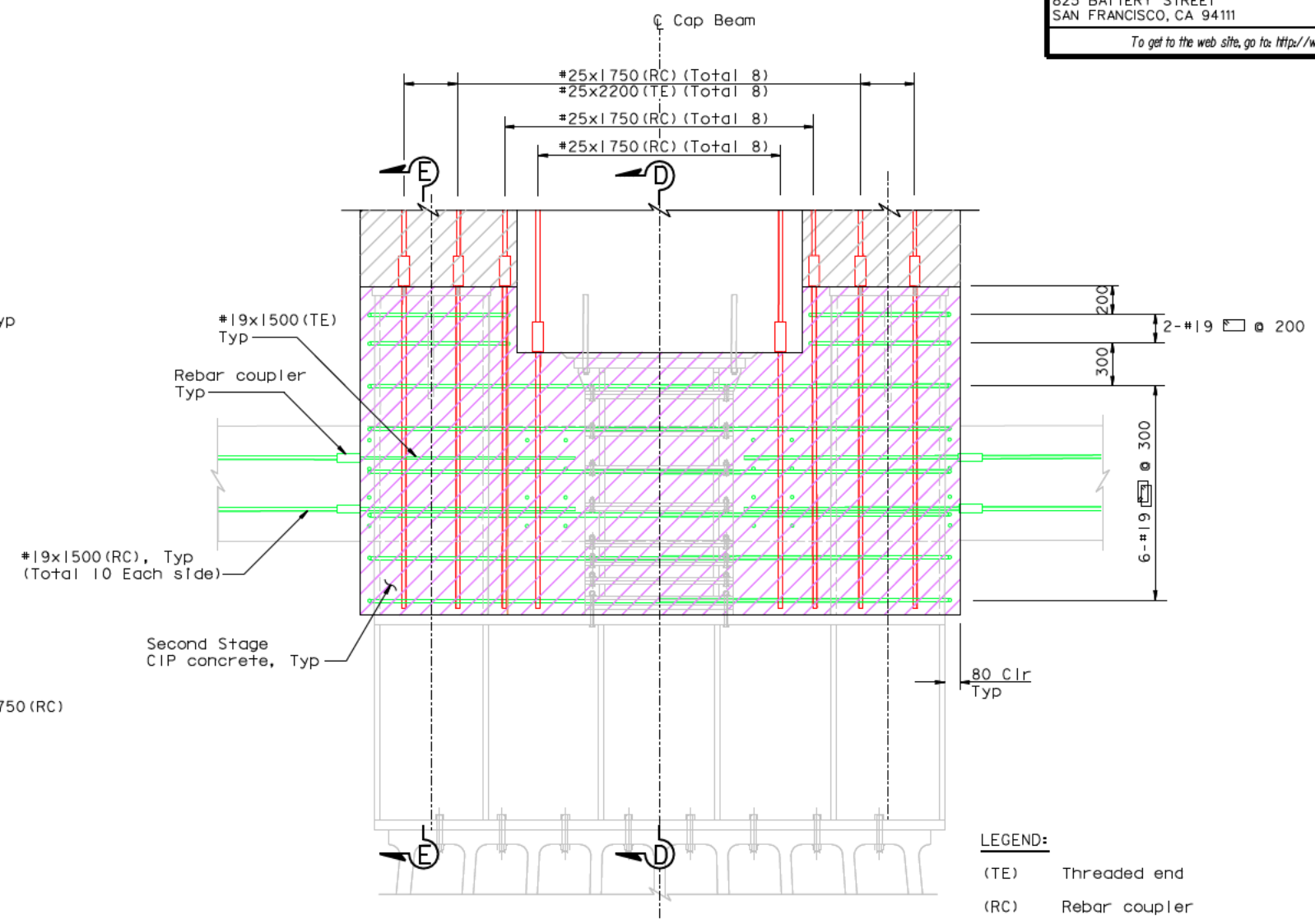


SECTION D-D

SECTION E-E



LOCATION KEY
NTS



LEGEND:

(TE) Threaded end

(RC) Rebar coupler

JACKING FRAME PLAN

SECOND STAGE CIP CONCRETE REINFORCEMENT
(At Jacking Frame)
1:20

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

SUPPLEMENTAL SHEET

CONTRACT CHANGE ORDER NO. _____
SHEET ____ OF ____

100 % PS&E

USERNAME -> vignatovsk DATE PLOTTED -> 07 JUN 2006 TIME PLOTTED -> 09:49:35

R. Valizadeh/V.Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 05/22/06

	BY	CHECKED
DESIGN	J. Duxbury	A. Sanjines
DETAILS	J. Duxbury	A. Sanjines
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)

W2 CAP BEAM REINFORCEMENT DETAILS NO. 33

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 05/22/06

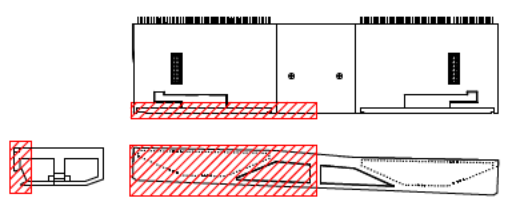
REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET 080S9 OF

FILE => p:\bb\04-012001\sas readv august 2005\w2 - cco\aecap33r-c.dgn

NOTES:

1. Top mat reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No.2 to No.8" sheets.
2. Bottom mat reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No.9 to No.18" sheets.
3. West Face reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No.19 to No.25" sheets.
4. Blockout reinforcement not shown for clarity. See "W2 Cap Beam Blockout Details" sheets.



LOCATION KEY
NTS

Caltrans Metric

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	497S10	1204

REGISTERED ENGINEER - CIVIL

05-22-06
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — James P.Duxbury — No. C 64677 — Exp. 06/30/07 — CIVIL — STATE OF CALIFORNIA

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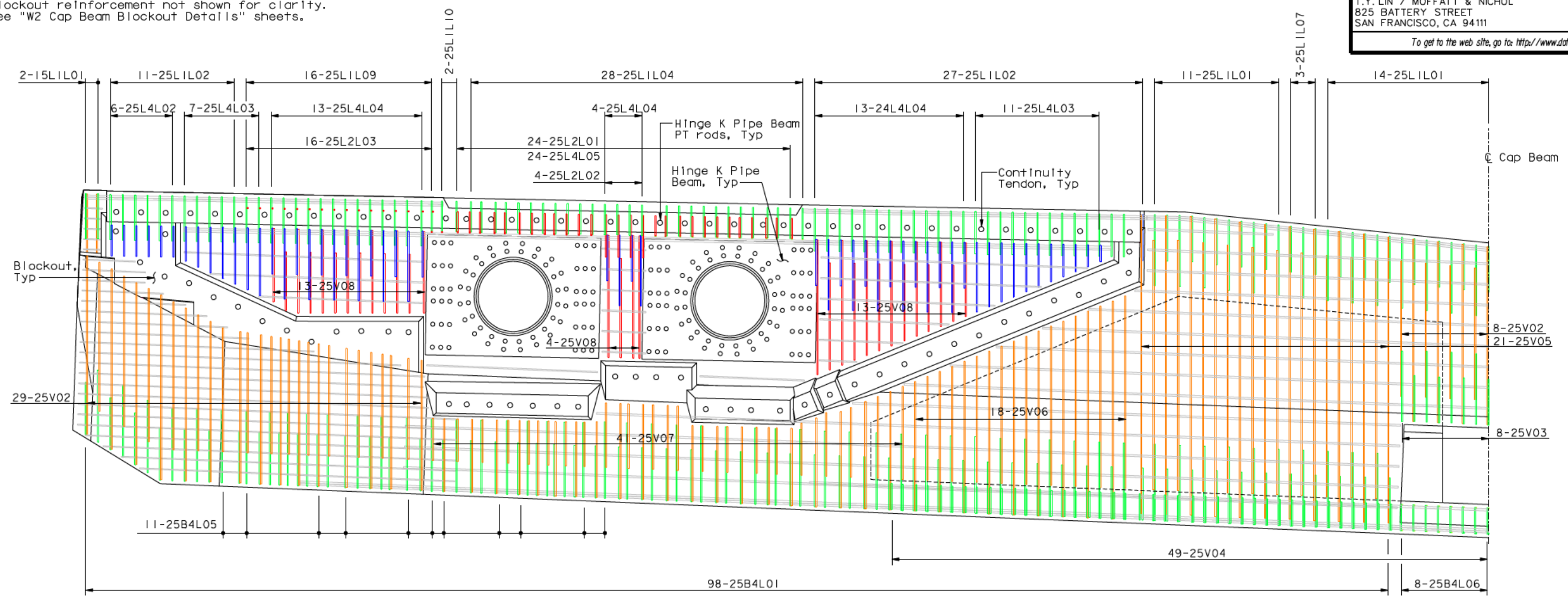

WEST FACE SKIN REINFORCEMENT (NORTH) (EXTERIOR)

(Looking East) (South Side Similar)
1:50

SUPPLEMENTAL SHEET

CONTRACT CHANGE ORDER NO. ____
SHEET ___ OF ___

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

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

W2 CAP BEAM REINFORCEMENT DETAILS NO. 34

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 05/22/06

	BY	CHECKED
DESIGN	J. Duxbury	A. Sanjines
DETAILS	J. Duxbury	A. Sanjines
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

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)											SHEET	OF
05/22/06											080S10	

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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100% PS&E
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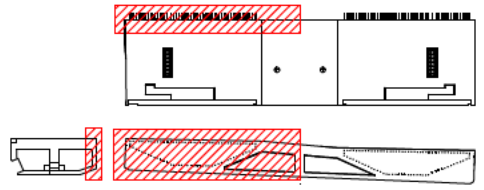
DATE PLOTTED -> 07 JUN 2006
USERNAME -> vlgnatovsk

NOTES:

1. Top mat reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No. 2 to No. 8" sheets.
2. Bottom mat reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No. 9 to No. 18" sheets.
3. East Face reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No. 19 to No. 25" sheets.
4. Closure Joint reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No. 48 to No. 49" sheets.



LOCATION KEY
NTS

Caltrans Metric

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	497511	1204

REGISTERED ENGINEER - CIVIL
James P. Duxbury
No. C 64677
Exp. 06/30/07
CIVIL
REGISTERED PROFESSIONAL ENGINEER STATE OF CALIFORNIA

05-22-06
PLANS APPROVAL DATE

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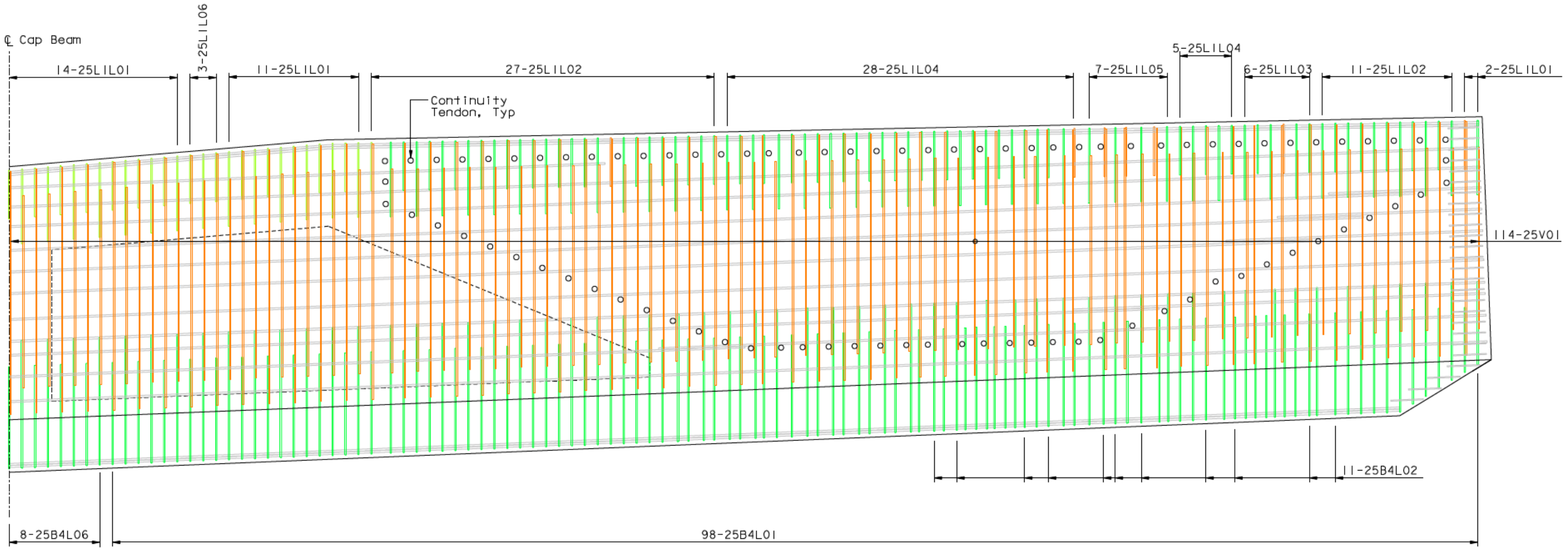


EAST FACE SKIN REINFORCEMENT (NORTH) (EXTERIOR)

(Looking West) (South Side Similar)
1:50

SUPPLEMENTAL SHEET

CONTRACT CHANGE ORDER NO. ____
SHEET ___ OF ___

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

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

W2 CAP BEAM REINFORCEMENT DETAILS NO. 35

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 05/22/06

	BY	CHECKED
DESIGN	J. Duxbury	A. Sanjines
DETAILS	J. Duxbury	A. Sanjines
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

FILE -> p:\bb\04-012001\sas readv august 2005\w2 - cco\aecap33r-s.dgn

Rev. Date: 5-18-98

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

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

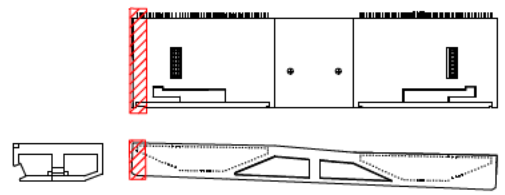
REVISION DATES (PRELIMINARY STAGE ONLY)
05/22/06

SHEET 080511 OF

100% PS&E
TIME PLOTTED => 09:52:02
DATE PLOTTED => 07 JUN 2006
USERNAME => vignatovis

NOTES:

1. For Section A-A thru D-D, see "W2 Cap Beam Reinforcement Details No.37" sheet.
2. For Section E-E thru J-J, see "W2 Cap Beam Reinforcement Details No.38" sheet.
3. Blockout reinforcement not shown for clarity. See "W2 Cap Beam Blockout Details" sheets.



LOCATION KEY
NTS

Caltrans Metric

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	497512	1204

REGISTERED ENGINEER - CIVIL
James P. Duxbury
No. C 64677
Exp. 06/30/07
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

05-22-06
PLANS APPROVAL DATE

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825 BATTERY STREET
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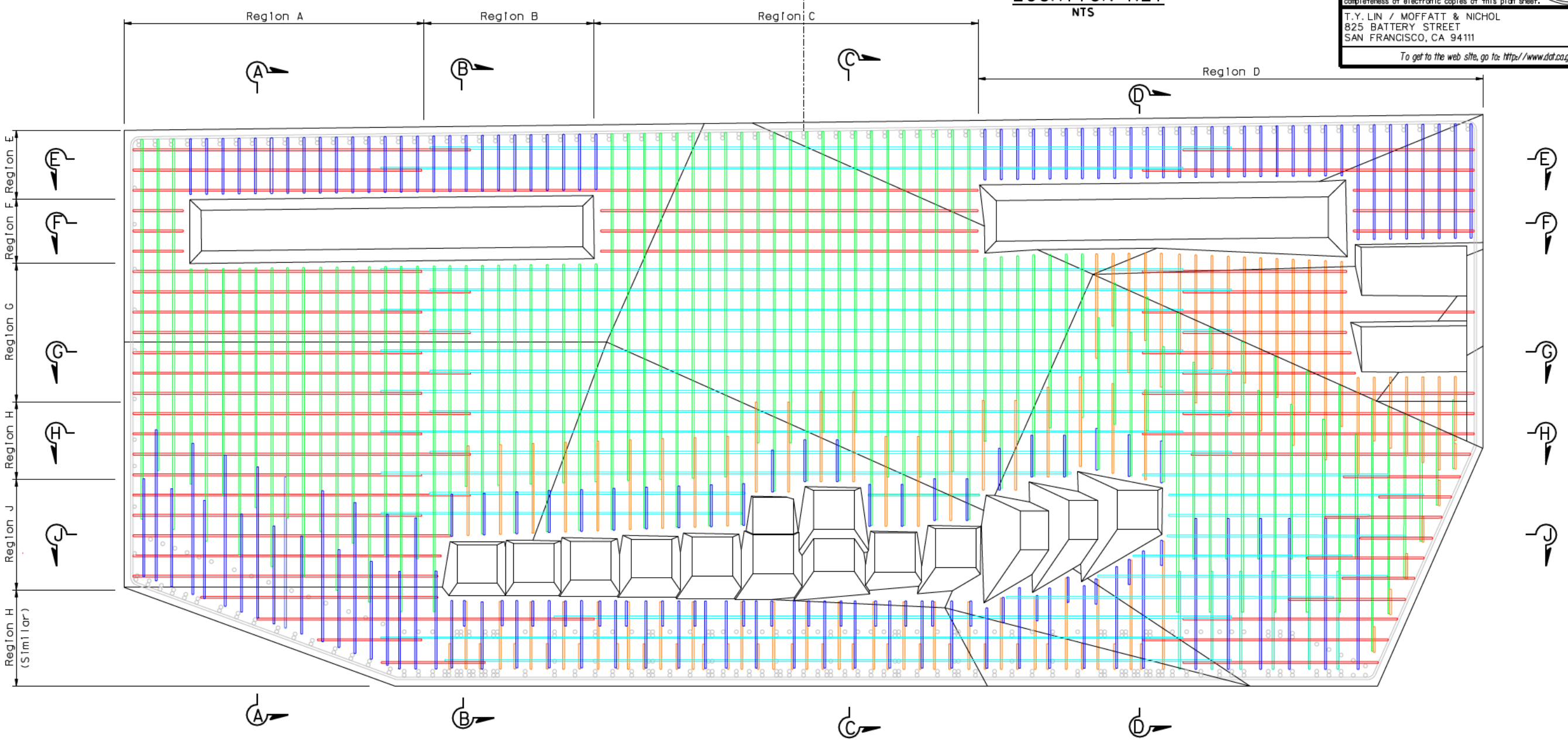

CAP END SKIN REINFORCEMENT (NORTH)
(South Side Similar)
1:25

SUPPLEMENTAL SHEET
CONTRACT CHANGE ORDER NO. ____
SHEET ___ OF ___

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

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

W2 CAP BEAM REINFORCEMENT DETAILS NO. 36

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 05/22/06

	BY	CHECKED
DESIGN	J. Duxbury	A. Sanjines
DETAILS	J. Duxbury	A. Sanjines
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

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): 05/22/06

SHEET 080512 OF

FILE -> p:\bb\04-012001\sas readv august 2005\w2 - cco\aecap34r-s.dgn

100 % PS&E
USERNAME -> vignatovs DATE PLOTTED -> 07 JUN 2006 TIME PLOTTED -> 09:53:07

NOTES:

1. Top mat reinforcement not shown for clarity.
   See "W2 Cap Beam Reinforcement Details
   No. 2 to No. 8" sheets.
2. Bottom mat reinforcement not shown for clarity.
   See "W2 Cap Beam Reinforcement Details
   No. 9 to No. 18" sheets.
3. Blockout reinforcement not shown for clarity.
   See "W2 Cap Beam Blockout Details" sheets.

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	497513	1204

REGISTERED ENGINEER - CIVIL

James P. Duxbury
No. C 64677
Exp. 06/30/07
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

05-22-06
PLANS APPROVAL DATE

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SAN FRANCISCO, CA 94111

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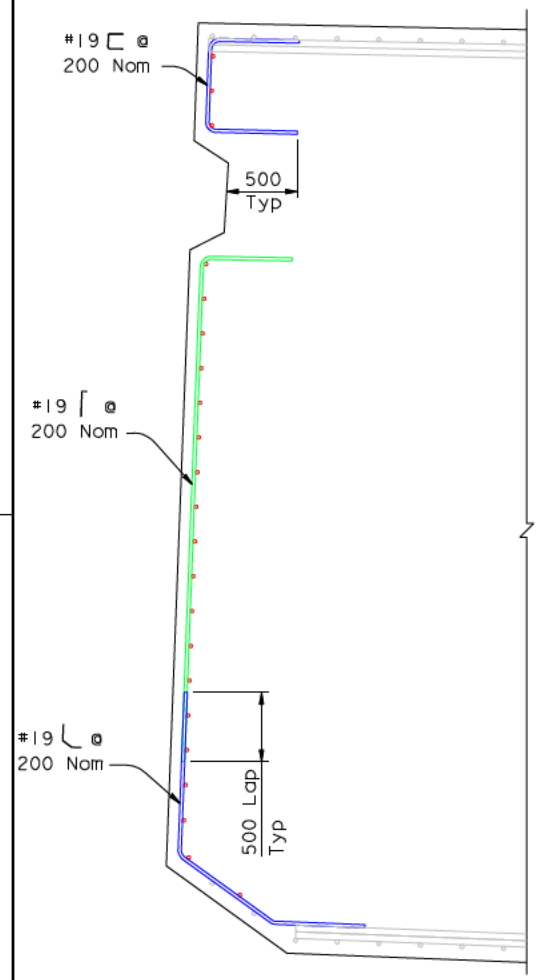
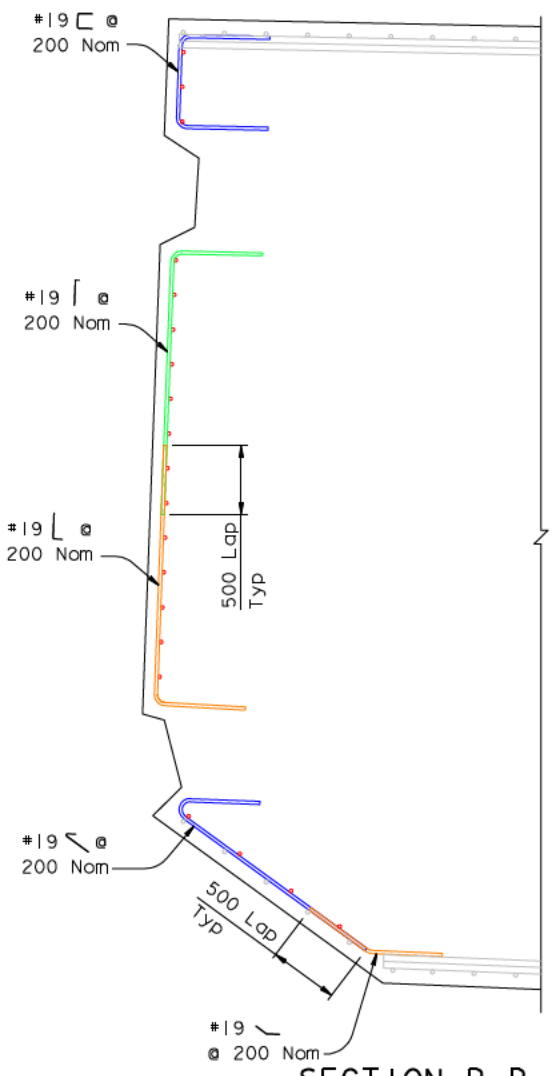


SECTION A-A



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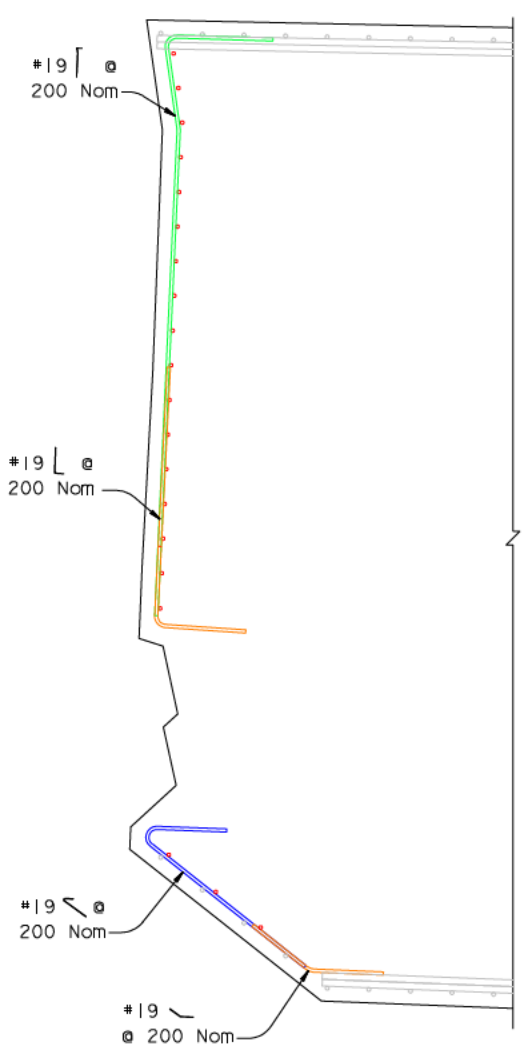

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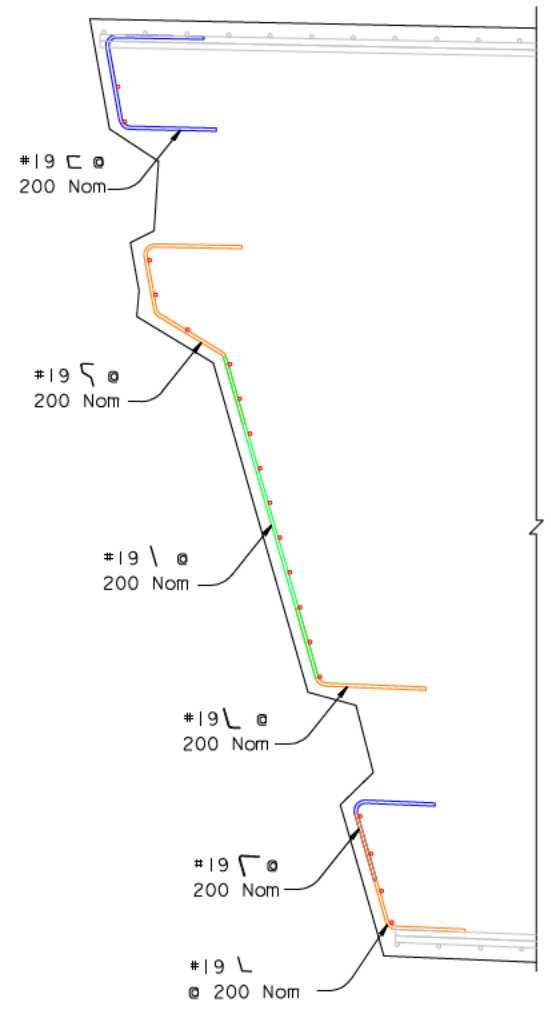


SECTION D-D

CAP END SKIN REINFORCEMENT

(North Side Shown, South Side Similar)

1:25

SUPPLEMENTAL SHEET

CONTRACT CHANGE ORDER NO. _____
SHEET ___ OF ___

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

R. Vallzadeh/V. Toan/Y. L./W. L./F. C.	DESIGN	BY J. Duxbury	CHECKED A. Sanjines
DESIGN OVERSIGHT	DETAILS	BY J. Duxbury	CHECKED A. Sanjines
SIGN OFF DATE 05/22/06	QUANTITIES	BY N. Vo	CHECKED J. Duxbury

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

R. Manzanarez
PROJECT ENGINEER

CU 04
EA 0120F1

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)

W2 CAP BEAM REINFORCEMENT DETAILS NO. 37

Rev. Date: 5-18-98

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

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 05/22/06

SHEET 080S13 OF

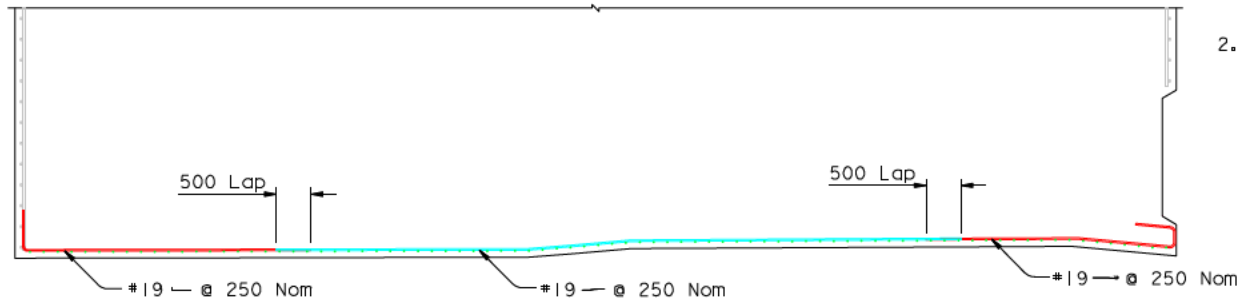
FILE -> p:\bb\04-012001\sas readv august 2005\w2 - cco\gecap35r-s.dgn

USERNAME -> vignatovs DATE PLOTTED -> 07 JUN 2006 TIME PLOTTED -> 09:54:13

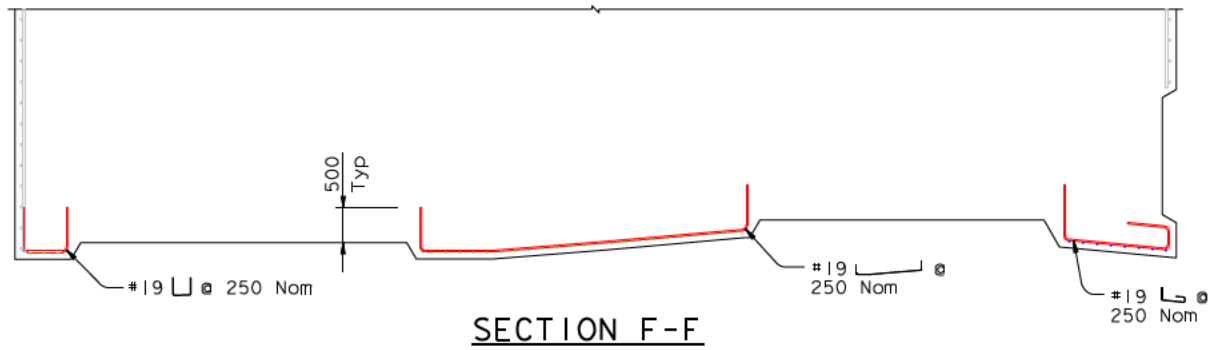
100% PS&E

NOTES:

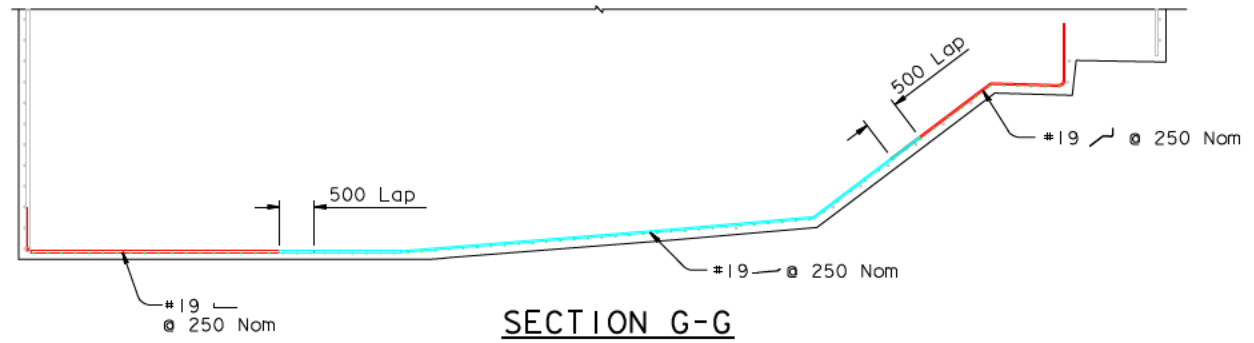
1. East face and West face reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No.19 to No.25" sheets.
2. Blockout reinforcement not shown for clarity. See "W2 Cap Beam Blockout Details" sheets.



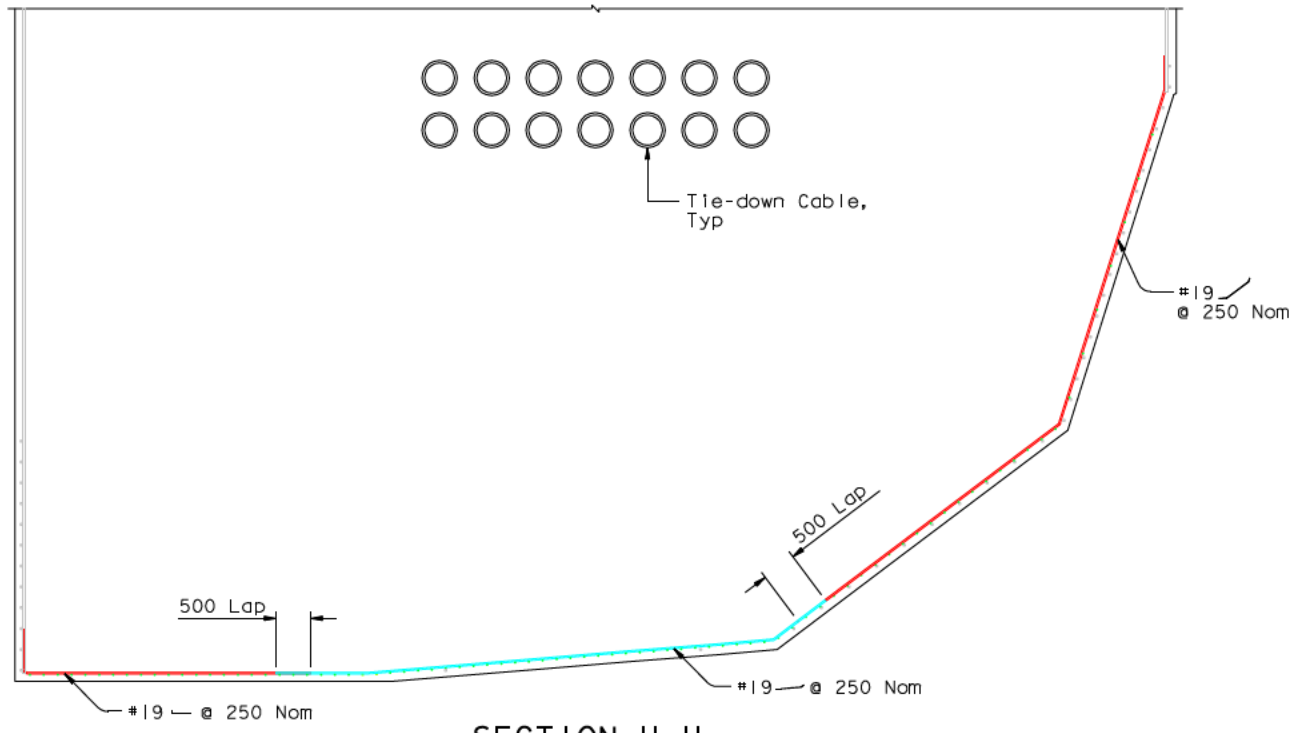
SECTION E-E



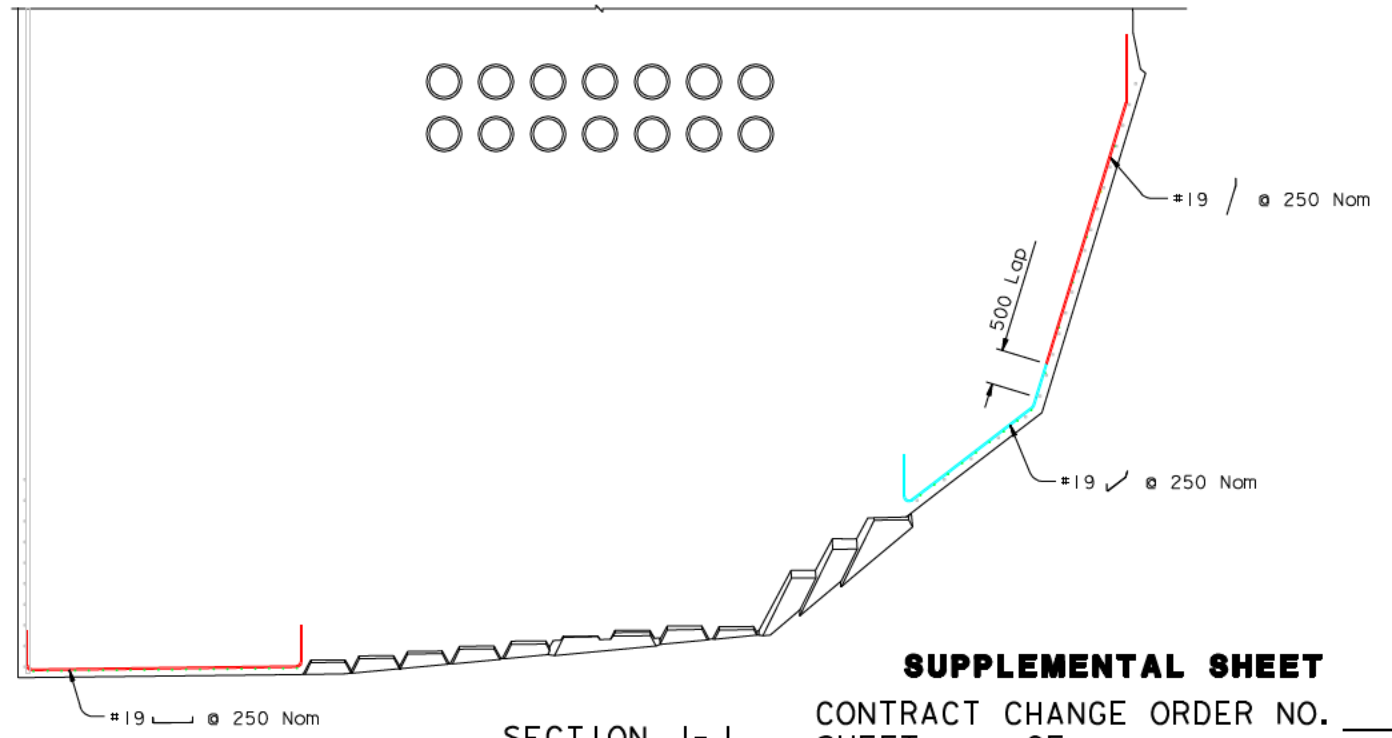
SECTION F-F



SECTION G-G



SECTION H-H



SECTION J-J

CAP END REINFORCEMENT

(North Side Shown, South Side Similar)

1:25

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	497514	1204

REGISTERED ENGINEER - CIVIL

James P. Duxbury
No. C 64677
Exp. 06/30/07
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

05-22-06
PLANS APPROVAL DATE

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SUPPLEMENTAL SHEET

CONTRACT CHANGE ORDER NO. ____
SHEET ___ OF ___

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DATE PLOTTED -> 07 JUN 2006
USERNAME -> vignatovs

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

W2 CAP BEAM REINFORCEMENT DETAILS NO. 38

R. Valizadeh/V. Toan/Y. L./W. L./F. C.
DESIGN OVERSIGHT
SIGN OFF DATE 05/22/06

	BY	CHECKED
DESIGN	J. Duxbury	A. Sanjines
DETAILS	J. Duxbury	A. Sanjines
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

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

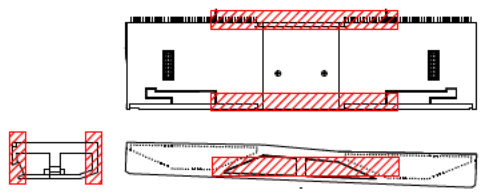
DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)										SHEET	OF
05/22/06										080514	

FILE -> p:\bb\04-012001\sas readv august 2005\w2 - cco\aecap36r-s.dgn

NOTES:

1. East face and West face reinforcement not shown for clarity. See "W2 Cap Beam Reinforcement Details No. 19 to No. 25" sheets.



LOCATION KEY
NTS

Caltrans Metric

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	497515	1204

REGISTERED ENGINEER - CIVIL

05-22-06
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
James P. Duxbury
No. C 64677
Exp. 06/30/07
CIVIL
STATE OF CALIFORNIA

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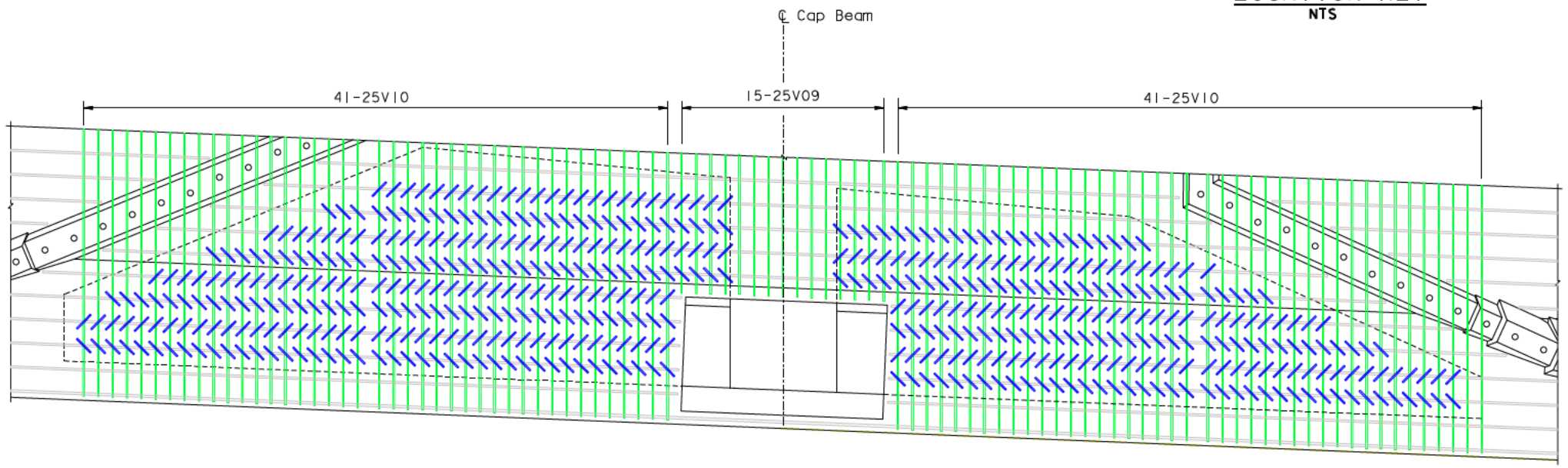
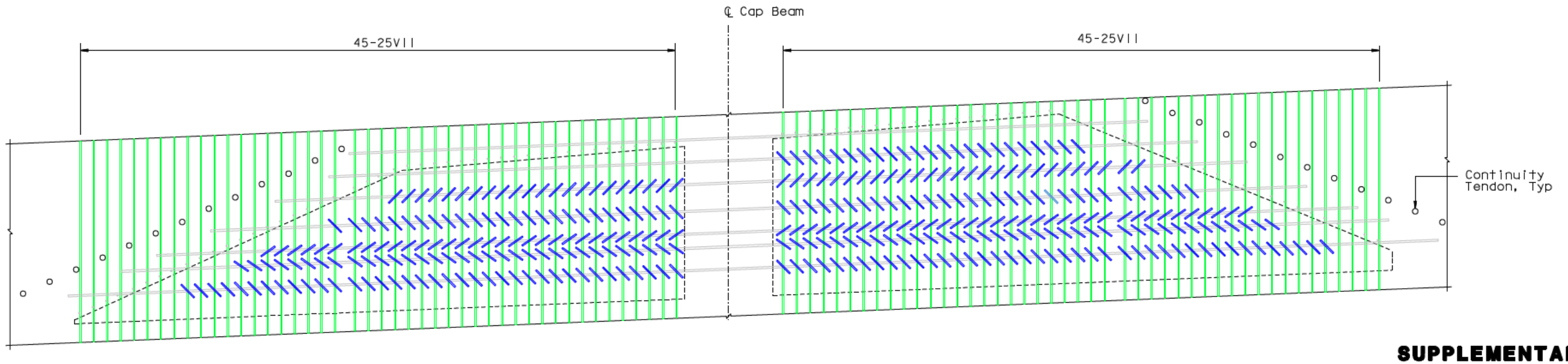


WEST FACE SKIN REINFORCEMENT (INTERIOR A)
(Looking East)
NTS



EAST FACE SKIN REINFORCEMENT (INTERIOR)
(Looking West)
NTS

SUPPLEMENTAL SHEET

CONTRACT CHANGE ORDER NO. _____
SHEET ___ OF ___

100% PS&E

TIME PLOTTED -> 09:56:06
DATE PLOTTED -> 07 JUN 2006
USERNAME -> vignatovsk

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

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

W2 CAP BEAM REINFORCEMENT DETAILS NO. 39

R. Valizadeh/V. Toan/Y. L./W. L./F. C.
DESIGN OVERSIGHT
SIGN OFF DATE 05/22/06

DESIGN	BY J. Duxbury	CHECKED A. Sanjines
DETAILS	BY J. Duxbury	CHECKED A. Sanjines
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

Rev. Date: 5-18-98

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

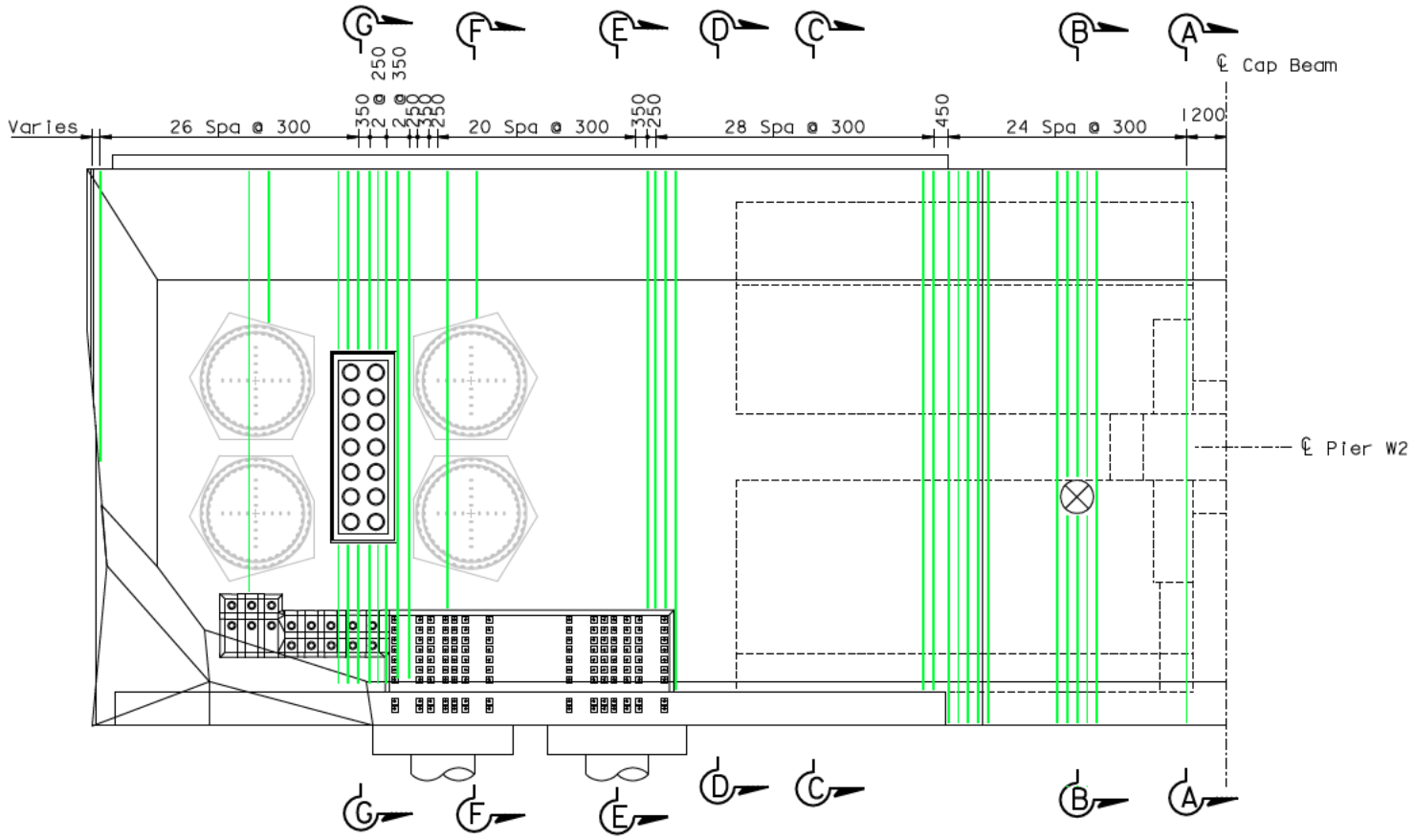
CU 04
EA 0120F1

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 05/22/06

SHEET 080515 OF

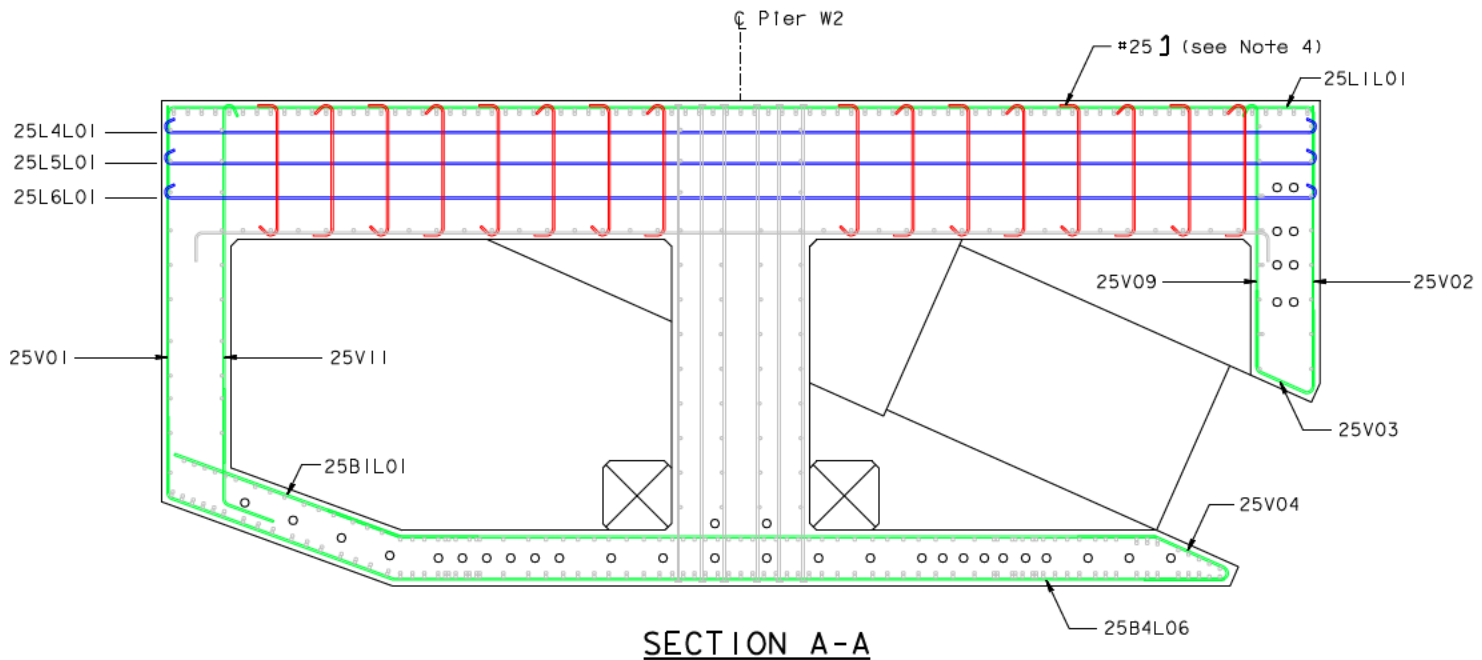
FILE -> p:\bb\04-012001\sas readv august 2005\w2 - cco\decap37r-s.dgn



HORIZONTAL STIRRUP REINFORCEMENT PLAN (NORTH) (LAYERS 4-15)

(South Side Similar)

1:100



SECTION A-A

1:50

NOTES:

1. For Section B-B and C-C, see "W2 Cap Beam Reinforcement Details No. 41" sheet.
2. For Section D-D and E-E, see "W2 Cap Beam Reinforcement Details No. 42" sheet.
3. For Section F-F and G-G, see "W2 Cap Beam Reinforcement Details No. 43" sheet.
4. For Top Slab Stirrup Plan, see "W2 Cap Beam Reinforcement Details No. 8" sheet.

SUPPLEMENTAL SHEET

CONTRACT CHANGE ORDER NO. _____

SHEET ___ OF ___

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	497S16	1204

REGISTERED ENGINEER - CIVIL

James P. Duxbury
No. C 64677
Exp. 06/30/07
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

05-22-06
PLANS APPROVAL DATE

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DESIGN	BY J. Duxbury	CHECKED A. Sanjines	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY J. Duxbury	CHECKED A. Sanjines	
QUANTITIES	BY N. Vo	CHECKED J. Duxbury	

R. Valizadeh/V. Toan/Y. L./W. L./F. C.
DESIGN OVERSIGHT
SIGN OFF DATE 05/22/06

R. Manzanarez
PROJECT ENGINEER

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

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

W2 CAP BEAM REINFORCEMENT DETAILS NO. 40

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): 05/22/06

SHEET 080S16 OF

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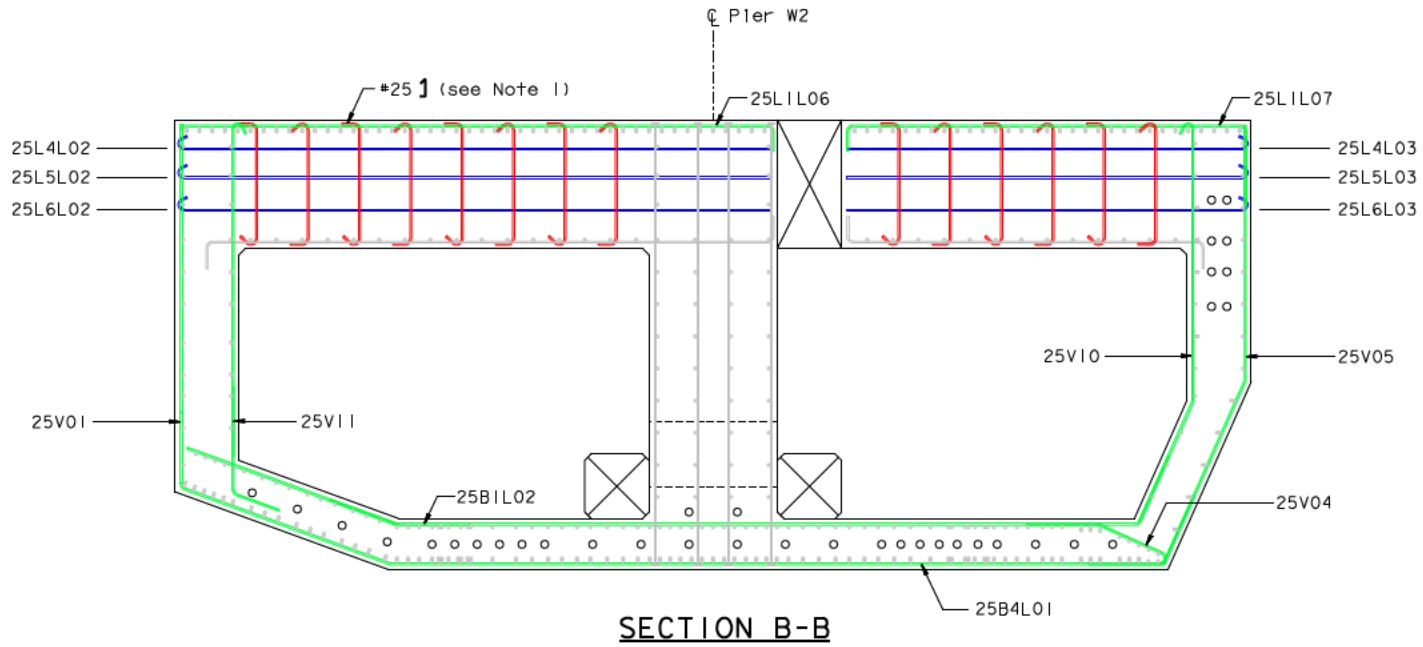
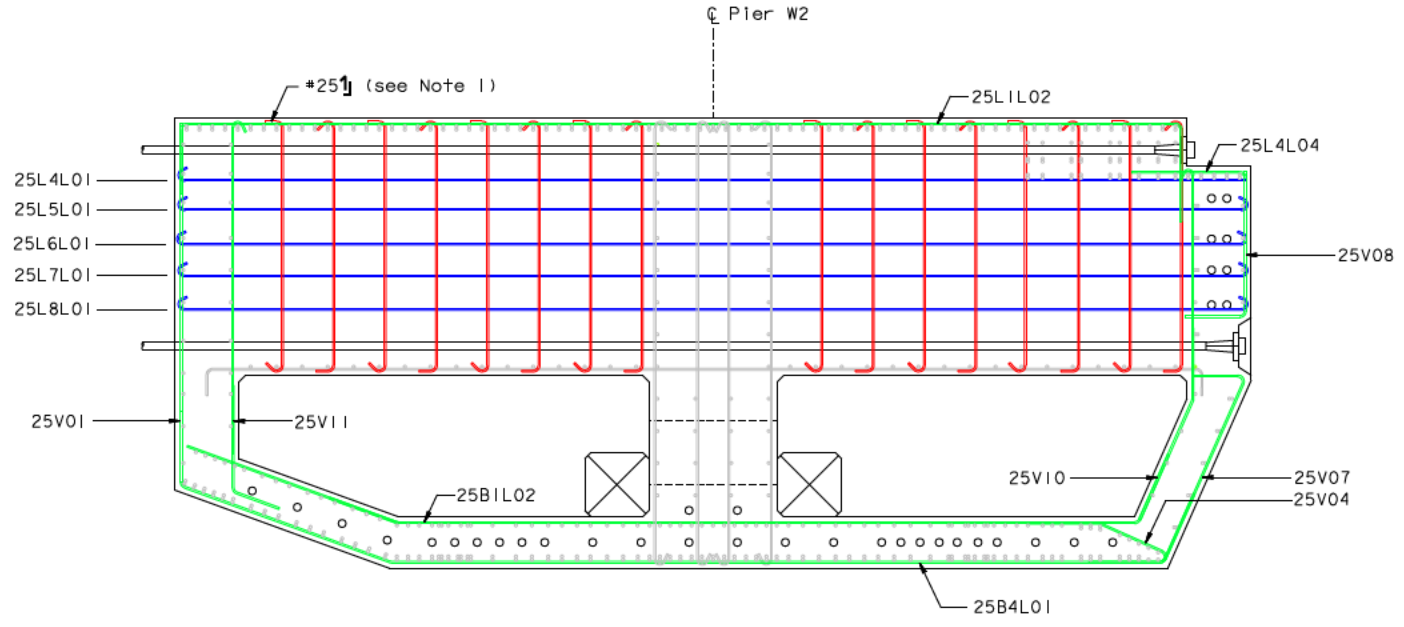


SECTION B-B
1:50



SECTION C-C
1:50

NOTES:

1. For Top Slab Stirrup Plan, see "W2 Cap Beam Reinforcement Details No.8" sheet.

SUPPLEMENTAL SHEET

CONTRACT CHANGE ORDER NO. ____
SHEET ___ OF ___

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	497S17	1204

REGISTERED ENGINEER - CIVIL
James P. Duxbury
No. C 64677
Exp. 06/30/07
CIVIL
05-22-06
PLANS APPROVAL DATE

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

W2 CAP BEAM REINFORCEMENT DETAILS NO. 41

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 05/22/06

	BY	CHECKED
DESIGN	J. Duxbury	A. Sanjines
DETAILS	J. Duxbury	A. Sanjines
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

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 05/22/06

SHEET 080S17 OF

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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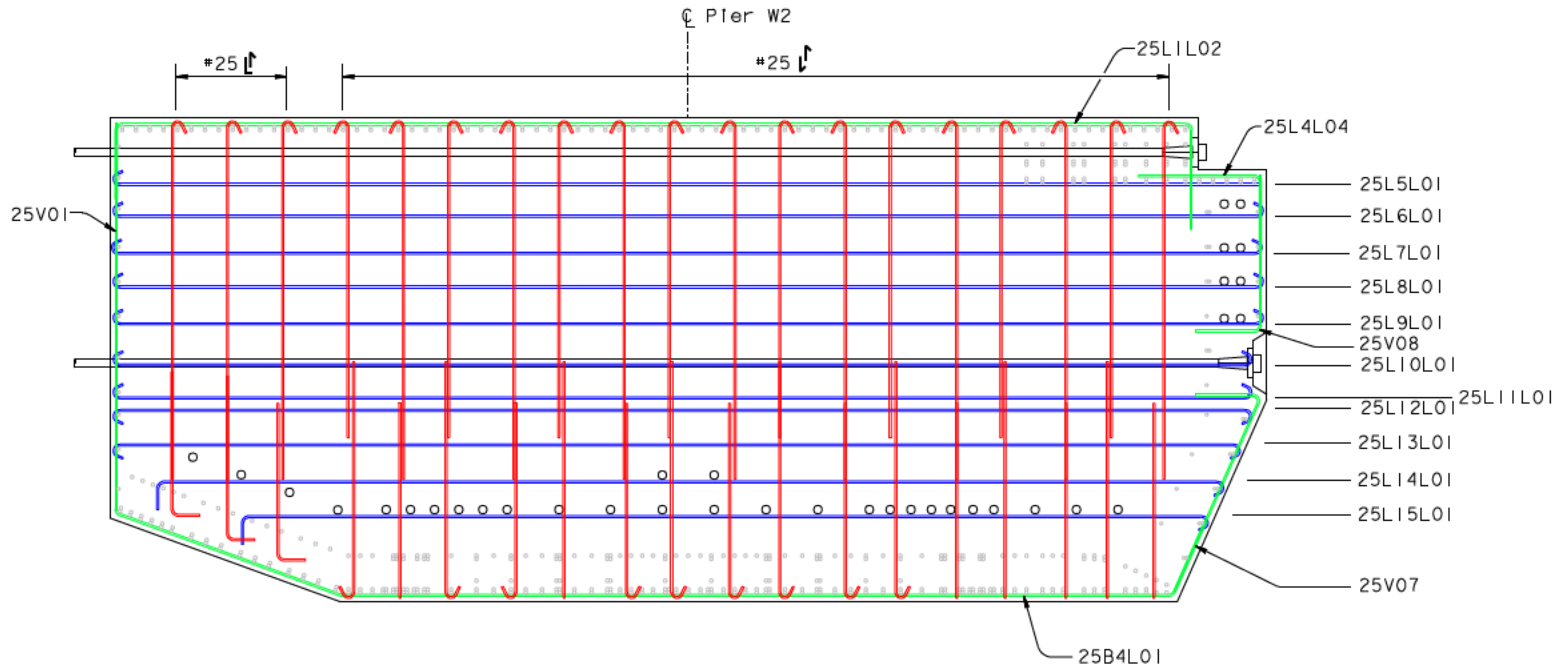
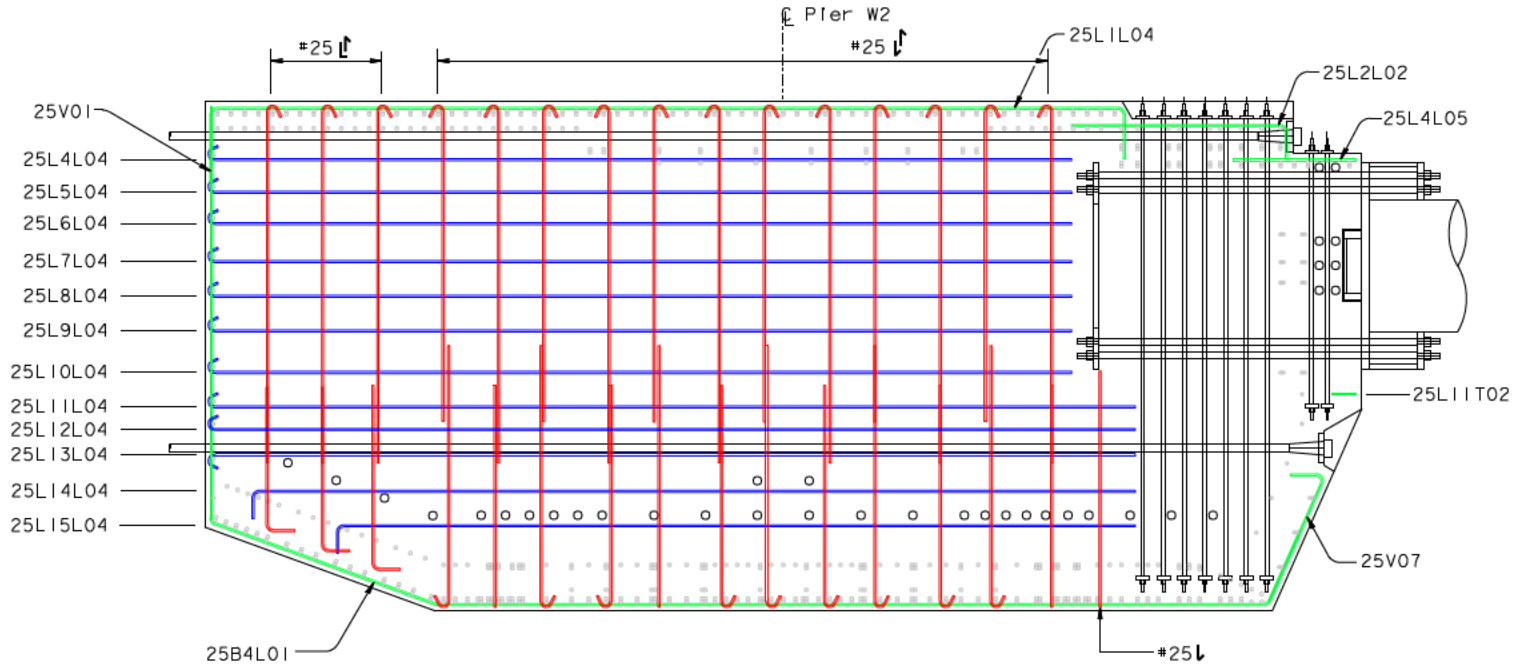
100% PS&E

TIME PLOTTED => 09:59:55
DATE PLOTTED => 07 JUN 2006
USERNAME => vtoantovs



SECTION D-D
1:50



SECTION E-E
1:50

NOTES:

1. For Top Slab Stirrup Plan, see "W2 Cap Beam Reinforcement Details No.8" sheet.

SUPPLEMENTAL SHEET

CONTRACT CHANGE ORDER NO. ____
SHEET ___ OF ___

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	497S18	1204

REGISTERED ENGINEER - CIVIL
James P.Duxbury
No. C 64677
Exp. 06/30/07
CIVIL
STATE OF CALIFORNIA
05-22-06
PLANS APPROVAL DATE

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825 BATTERY STREET
SAN FRANCISCO, CA 94111

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USERNAME => vlignotov

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

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

W2 CAP BEAM REINFORCEMENT DETAILS NO. 42

R. Valizadeh/V. Toan/Y. L./W. L./F. C.
DESIGN OVERSIGHT
SIGN OFF DATE 05/22/06

	BY	CHECKED
DESIGN	J. Duxbury	A. Sanjines
DETAILS	J. Duxbury	A. Sanjines
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

Rev. Date: 5-18-98

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

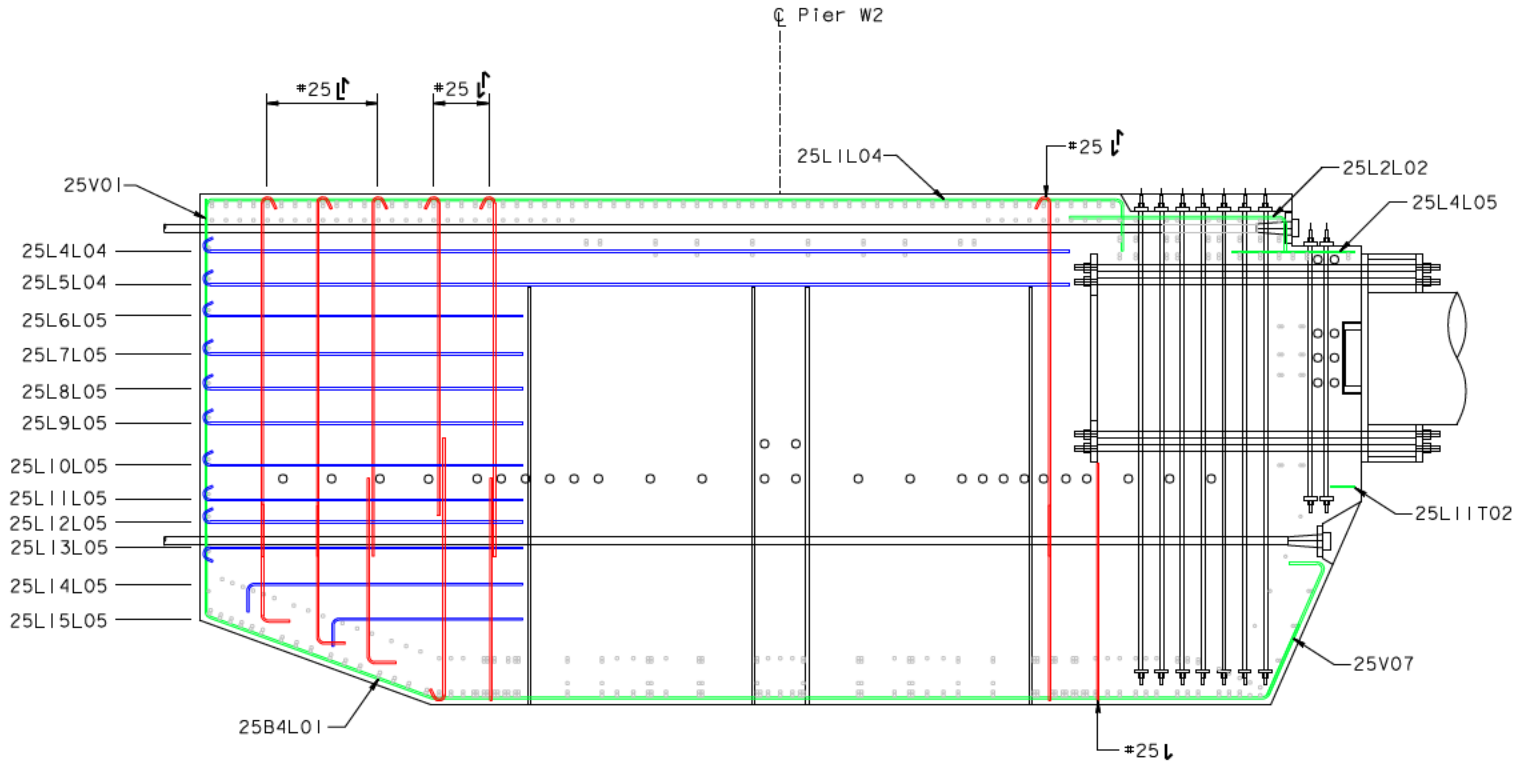
CU 04
EA 0120F1

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

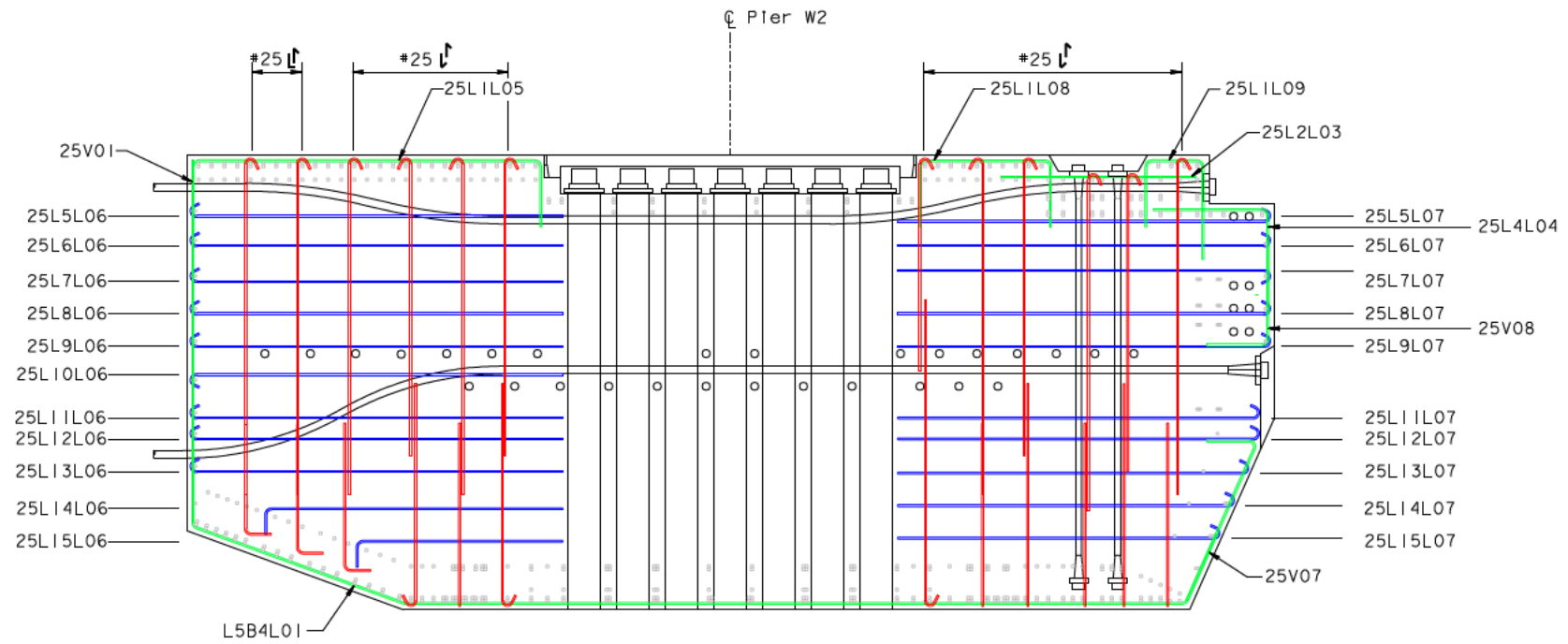
REVISION DATES (PRELIMINARY STAGE ONLY): 05/22/06

SHEET 080S18 OF

FILE => p:\bb\04-0120f1\sas ready august 2005\w2 - cco\aecap41r-s.dgn



SECTION F-F
1:50



SECTION G-G
1:50

Caltrans Metric

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	497S19	1204

REGISTERED ENGINEER - CIVIL

05-22-06
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — James P. Duxbury — No. C 64677 — Exp. 06/30/07 — CIVIL — STATE OF CALIFORNIA

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T.Y. LIN / MOFFATT & NICHOL
825 BATTERY STREET
SAN FRANCISCO, CA 94111

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NOTES:

1. For Top Slab Stirrup Plan, see "W2 Cap Beam Reinforcement Details No.8" sheet.

SUPPLEMENTAL SHEET

CONTRACT CHANGE ORDER NO. ____
SHEET ___ OF ___

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TIME PLOTTED => 10:02:59
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R. Vallzadeh/V. Toan/Y. L./W. L./F. C.
DESIGN OVERSIGHT
SIGN OFF DATE 05/22/06

	BY	CHECKED
DESIGN	J. Duxbury	A. Sanjines
DETAILS	J. Duxbury	A. Sanjines
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)

W2 CAP BEAM REINFORCEMENT DETAILS NO. 43

Rev. Date: 5-18-98

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

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY) 05/22/06

SHEET 080S19 OF

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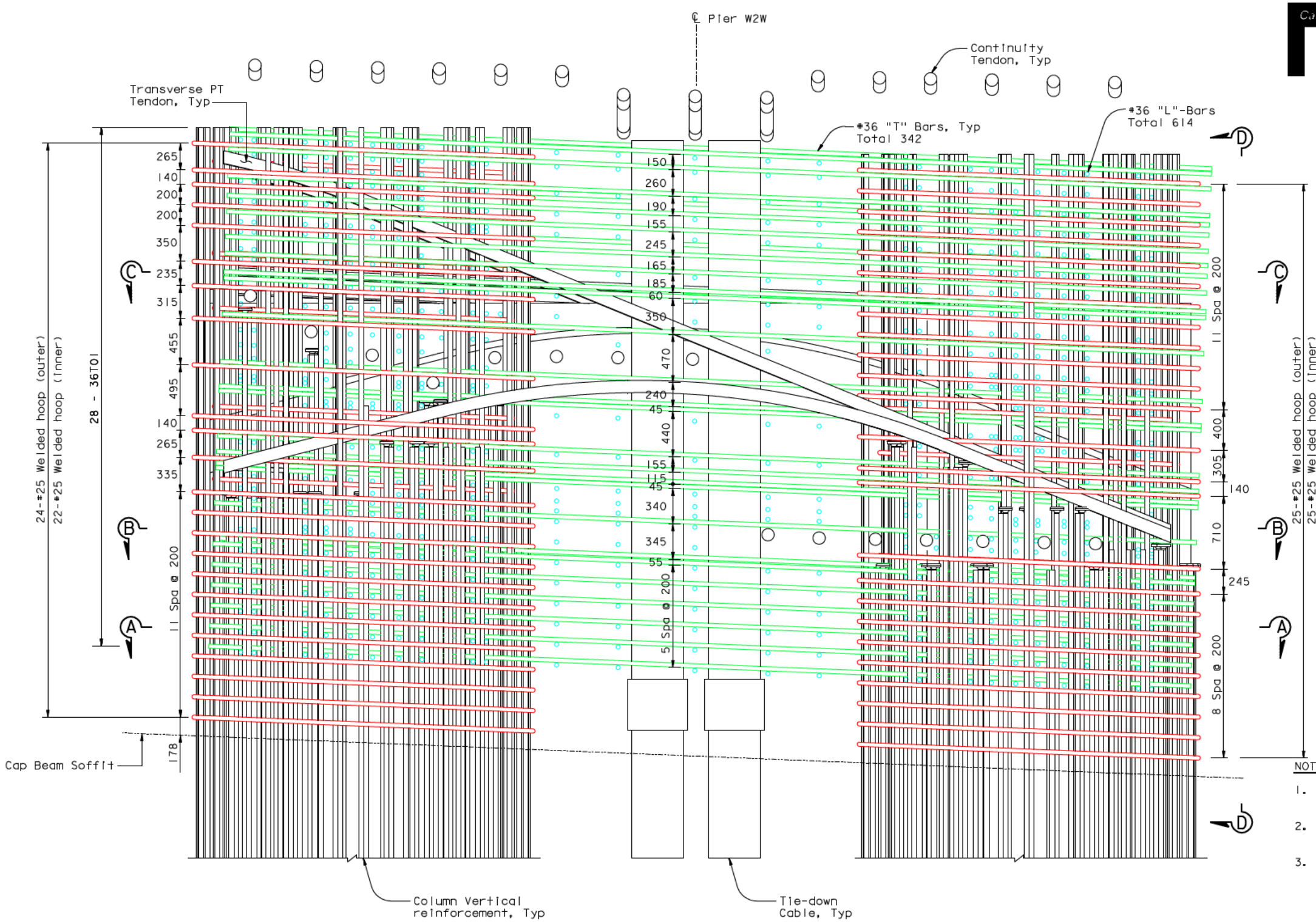

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	497S20	1204

REGISTERED ENGINEER - CIVIL
James P. Duxbury
No. C 64677
Exp. 06/30/07
CIVIL
STATE OF CALIFORNIA

05-22-06
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NOTES:

1. For Section A-A thru C-C, see "W2 Cap Beam Reinforcement Details No.46" sheet.
2. For Elevation D-D, see "W2 Cap Beam Reinforcement Details No.47" sheet.
3. Column vertical reinforcement shall be cut to avoid PT ducts. Maximum clearance distance between top of bar and PT duct is 200.

SUPPLEMENTAL SHEET

CONTRACT CHANGE ORDER NO. ____
SHEET ____ OF ____

COLUMN REGION REINFORCEMENT (NORTH ELEVATION)

(Looking East)
1:20

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DETAILS	J. Duxbury	A. Sanjines
QUANTITIES	N. Vo	J. Duxbury

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R. Manzanarez
PROJECT ENGINEER

BRIDGE NO. 34-0006L/R
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SAN FRANCISCO OAKLAND BAY BRIDGE
EAST SPAN SEISMIC SAFETY PROJECT
SELF-ANCHORED SUSPENSION BRIDGE
(SUPERSTRUCTURE & TOWER)

W2 CAP BEAM REINFORCEMENT DETAILS NO.44

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): 05/22/06

SHEET 080S20 OF

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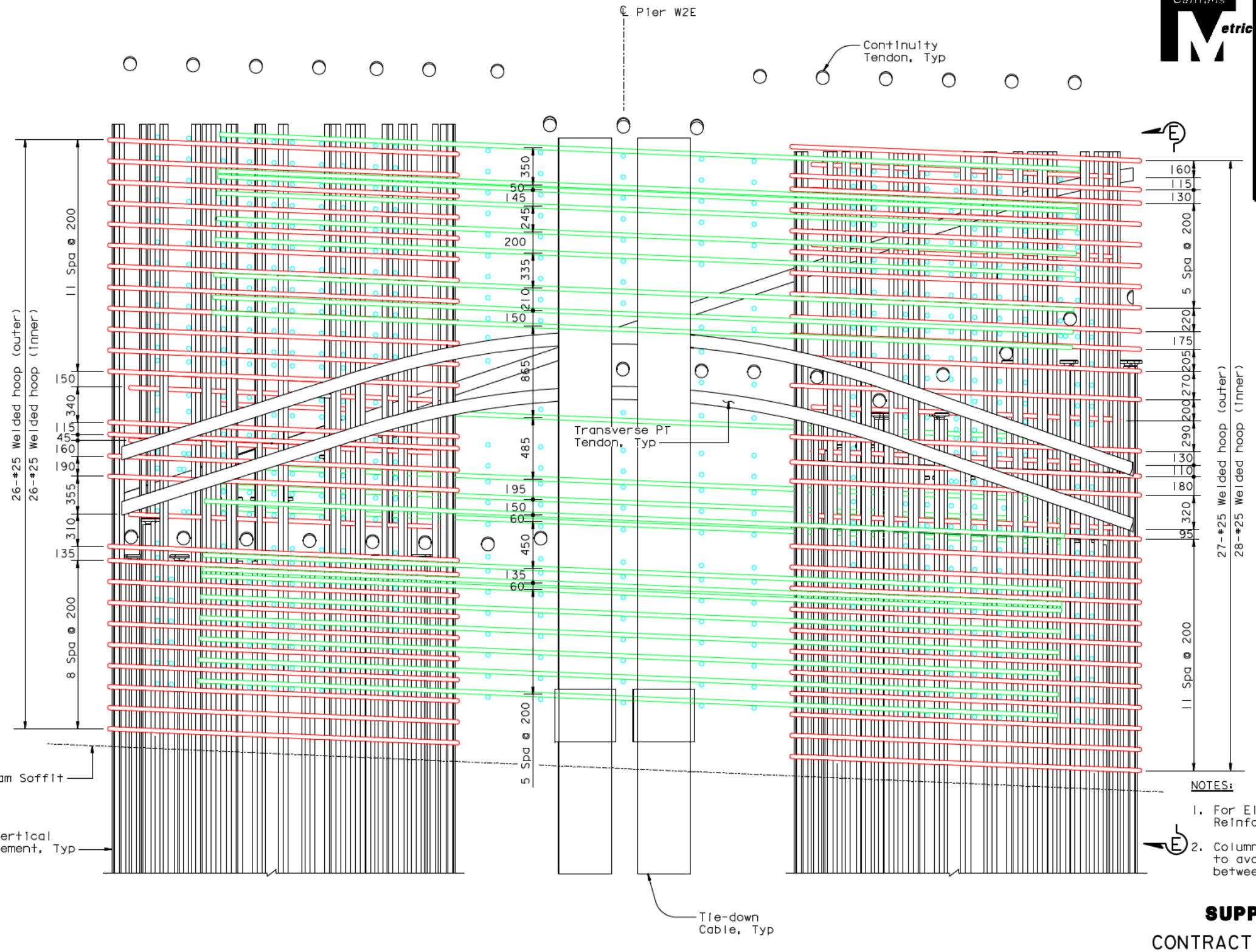

NOTES:

1. For Elevation E-E, see "W2 Cap Beam Reinforcement Details No.47" sheet.
2. Column vertical reinforcement shall be cut to avoid PT ducts. Maximum clearance distance between top of bar and PT duct is 200.

COLUMN REGION REINFORCEMENT (SOUTH ELEVATION)

(Looking East)
1:20

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

SUPPLEMENTAL SHEET

CONTRACT CHANGE ORDER NO. ____
SHEET ____ OF ____

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DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	497521	1204

REGISTERED ENGINEER - CIVIL
James P.Duxbury
No. C 64677
Exp. 06/30/07
CIVIL
STATE OF CALIFORNIA
05-22-06
PLANS APPROVAL DATE

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DESIGN	J. Duxbury	A. Sanjines
DETAILS	J. Duxbury	A. Sanjines
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)

W2 CAP BEAM REINFORCEMENT DETAILS NO. 45

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): 05/22/06

SHEET 080521 OF

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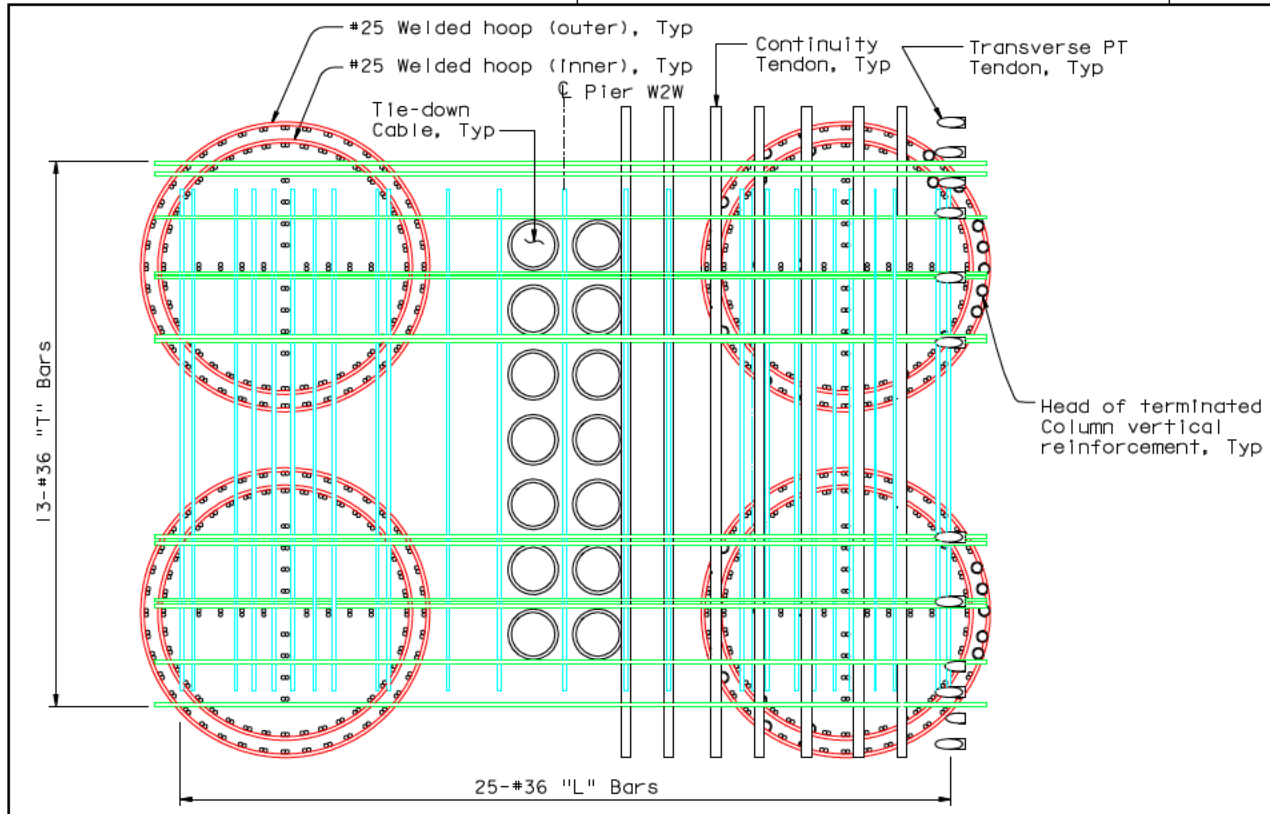
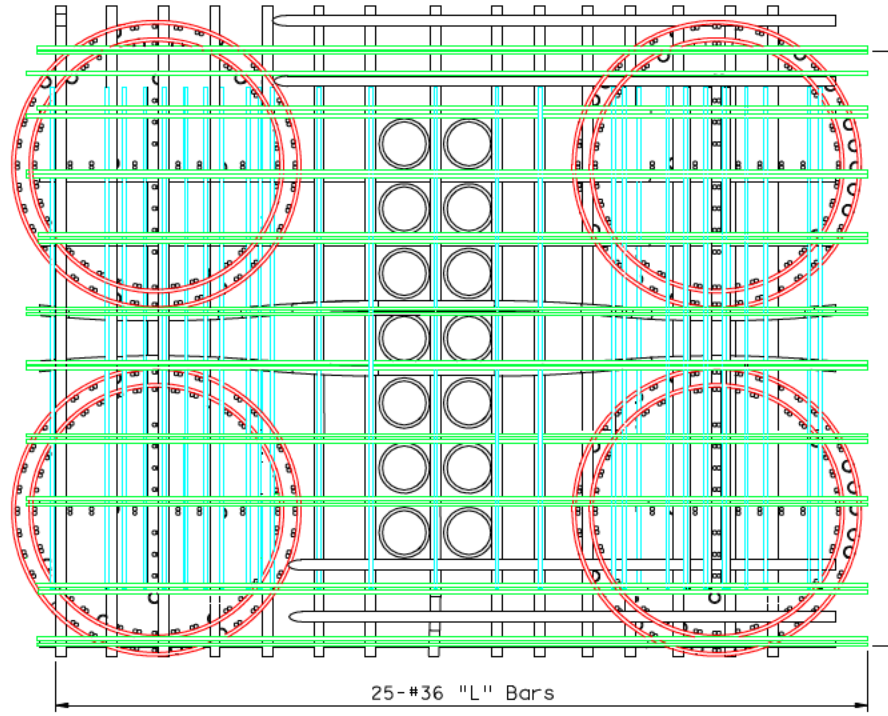


SECTION B-B



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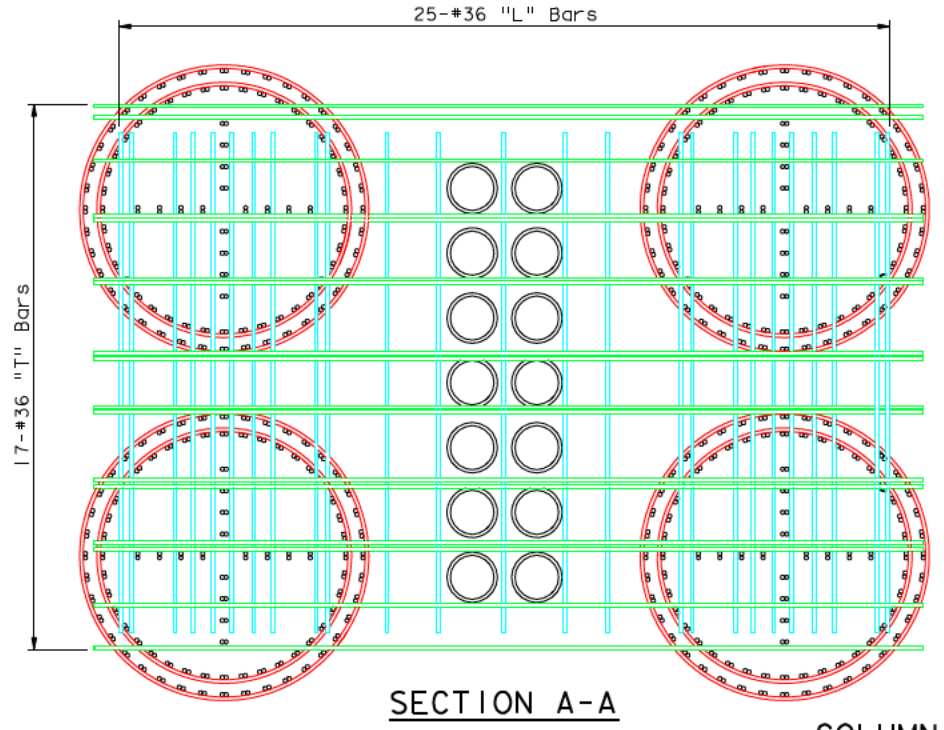
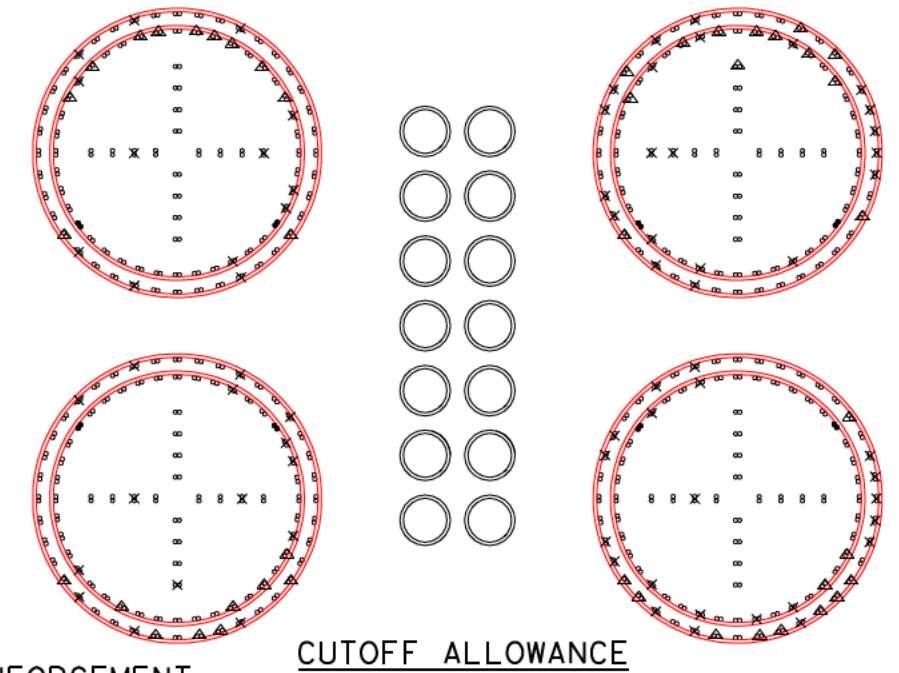


SECTION A-A



CUTOFF ALLOWANCE

COLUMN REGION REINFORCEMENT
(North Side Shown, South Side Similar)
1:40

LEGEND:

- ∞ #43 bundled bar
- ▬ Indicates #43 column reinforcement may be field cut below #43 Transverse cap beam reinforcement
- ✕ Indicates #43 column reinforcement may be field cut below cap beam longitudinal PT duct
- ▲ Indicates #43 column reinforcement may be field cut below cap beam transverse PTduct
- O Head of terminated column vertical reinforcement

NOTES:

1. Not all reinforcement shown for clarity.
2. Adjust reinforcement as required to clear column reinforcement.
3. Contractor may field cut existing column reinforcement identified in the cutoff allowance for column reinforcement detail.
4. Field cut #43 column reinforcement shall be fitted with field-installed round headed anchors, except as noted.
5. Prior to cutting any column reinforcement, the Contractor is required to submit locations and number of bars to be field cut for Engineer's review and approval.

SUPPLEMENTAL SHEET

CONTRACT CHANGE ORDER NO. _____
SHEET ____ OF ____

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DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	497S22	1204

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REGISTERED ENGINEER - CIVIL
05-22-06
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
James P.Duxbury
No. C 64677
Exp. 06/30/07
CIVIL
STATE OF CALIFORNIA

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SIGN OFF DATE 05/22/06

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DESIGN	J. Duxbury	A. Sanjines
DETAILS	J. Duxbury	A. Sanjines
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)

W2 CAP BEAM REINFORCEMENT DETAILS NO. 46

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

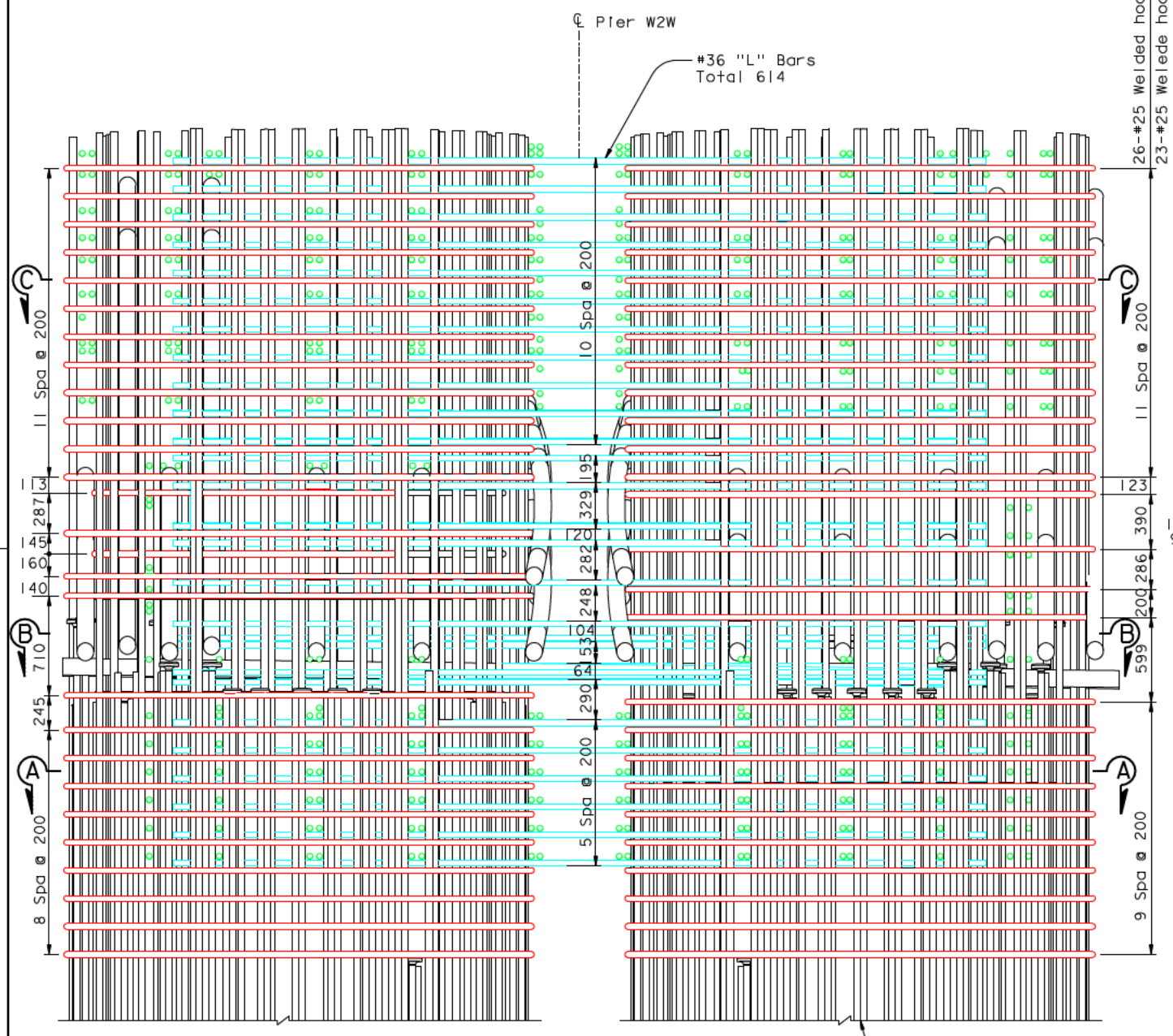
REVISION DATES (PRELIMINARY STAGE ONLY) 05/22/06

SHEET 080S22 OF

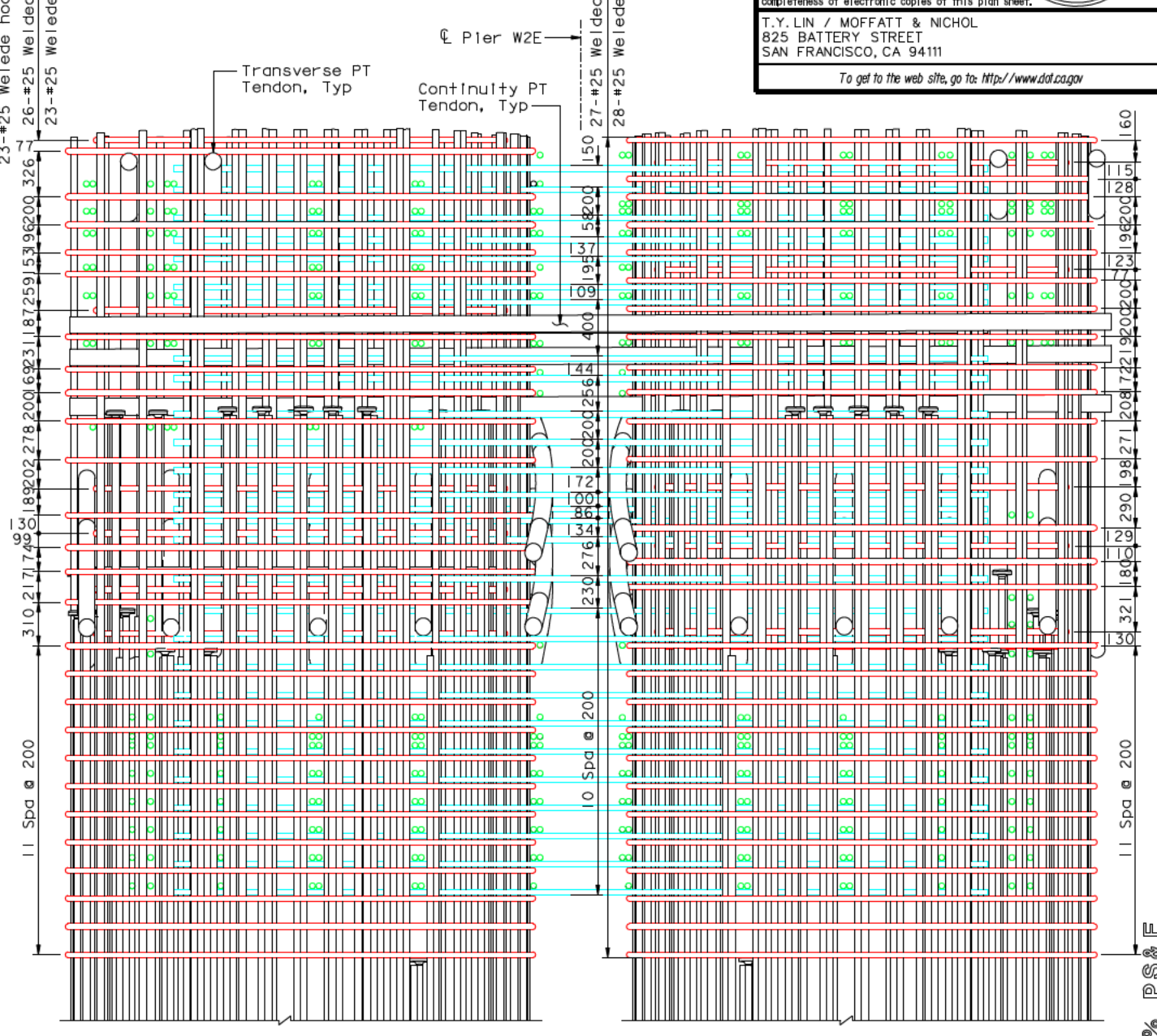
FILE -> p:\bb\04-012001\sas readv august 2005\w2 - cco\aecap45r-s.dgn

NOTES:

1. For Section A-A thru C-C, see "W2 Cap Beam Reinforcement Details No. 46" sheet.
2. Tie-down cables not shown for clarity.



ELEVATION D-D



ELEVATION E-E

Column vertical reinforcement, Typ

COLUMN REGION REINFORCEMENT

(Looking North)

1:20

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	497523	1204

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05-22-06

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SUPPLEMENTAL SHEET

CONTRACT CHANGE ORDER NO. ____

SHEET ___ OF ___

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DESIGN	BY J. Duxbury	CHECKED A. Sanjines	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY J. Duxbury	CHECKED A. Sanjines	
QUANTITIES	BY N. Vo	CHECKED J. Duxbury	

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 05/22/06

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)

W2 CAP BEAM REINFORCEMENT DETAILS NO. 47

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): 05/22/06

SHEET 080523 OF

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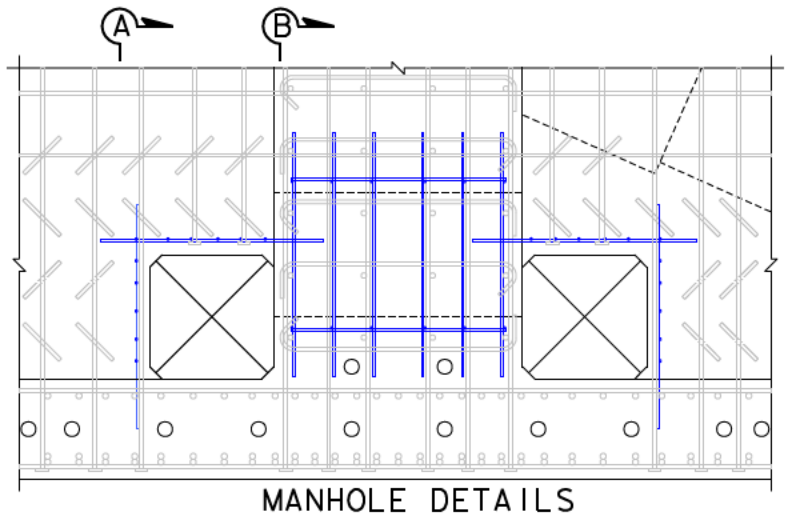
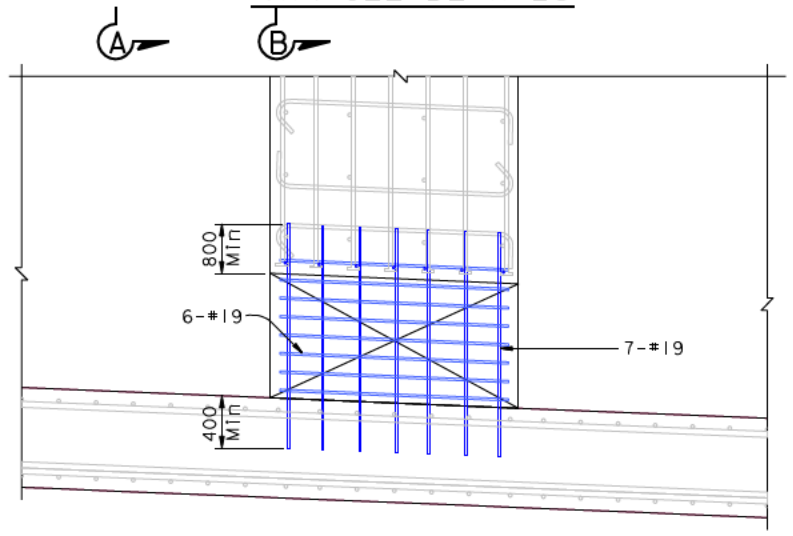
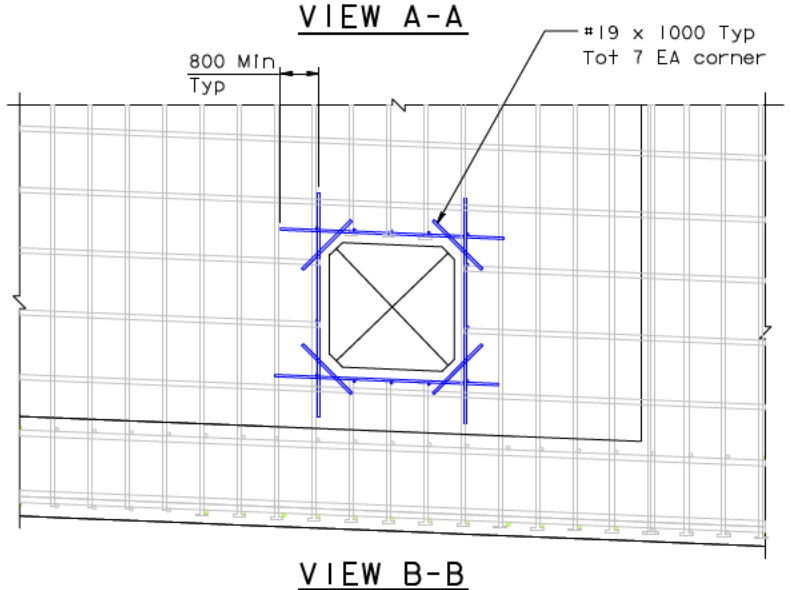


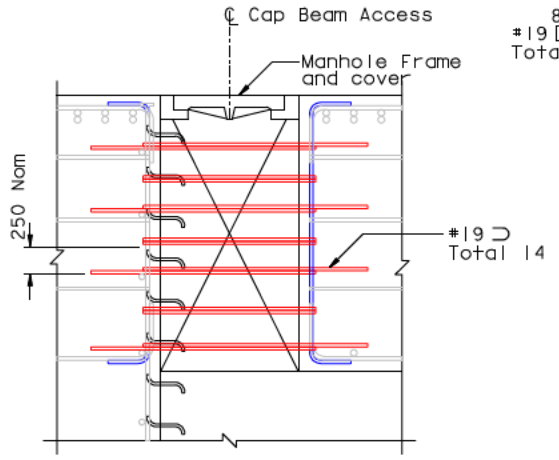
MANHOLE DETAILS

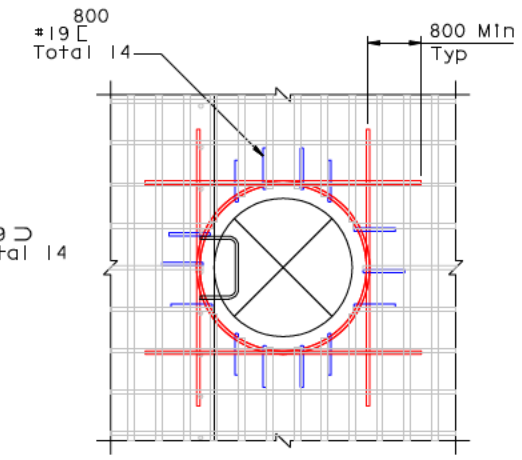


VIEW A-A

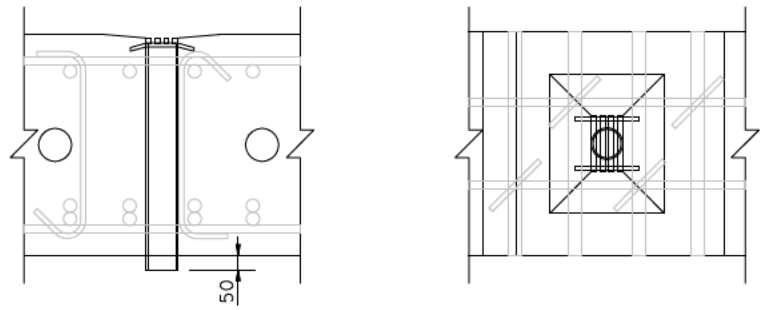


VIEW B-B

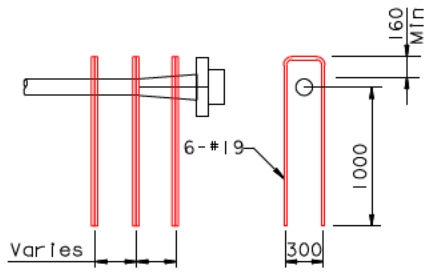




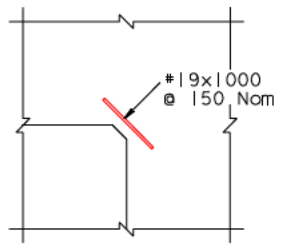
MANHOLE DETAILS



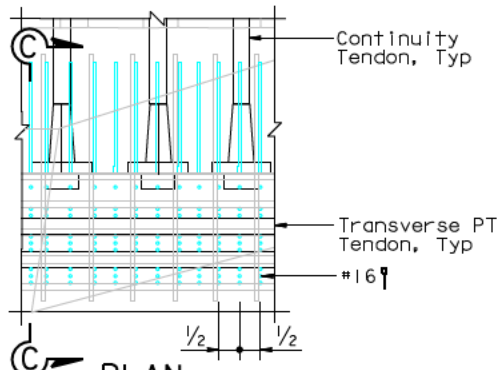
DRAIN DETAIL



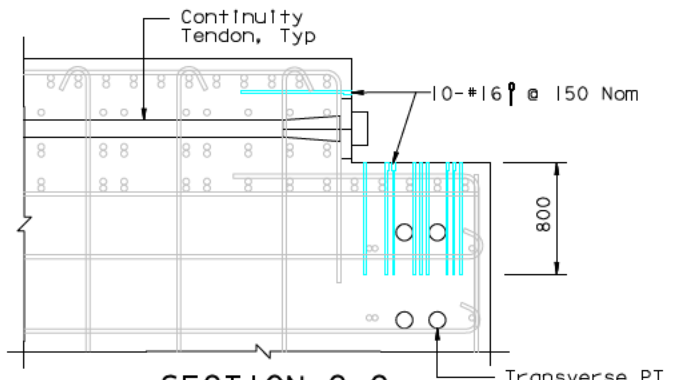
PT HAIR PIN DETAIL



CORNER BAR DETAIL
(Typical All openings)



PLAN



SECTION C-C

JOINT REINFORCEMENT DETAILS

NOTES:

1. Manhole frame and cover shall be cast iron. Complete assembly shall be galvanized after fabrication. Cover shall be supplied with bolt down or locking devices.

SUPPLEMENTAL SHEET

CONTRACT CHANGE ORDER NO. ____
SHEET ____ OF ____

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DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	497S24	1204

REGISTERED ENGINEER - CIVIL
James P.Duxbury
No. C 64677
Exp. 06/30/07
CIVIL
STATE OF CALIFORNIA
05-22-06
PLANS APPROVAL DATE

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DETAILS	BY J. Duxbury	CHECKED A. Sanjines	
QUANTITIES	BY N. Vo	CHECKED J. Duxbury	

R. Valizadeh/V. Toan/Y. L./W. L./F. C.
DESIGN OVERSIGHT
SIGN OFF DATE 05/22/06

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)

W2 CAP BEAM REINFORCEMENT DETAILS NO. 48

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

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REVISION DATES (PRELIMINARY STAGE ONLY)										SHEET	OF
05/22/06										080S24	

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04	SF	80	13.2/13.9	497S25	1204

REGISTERED ENGINEER - CIVIL

12-6-04
PLANS APPROVAL DATE

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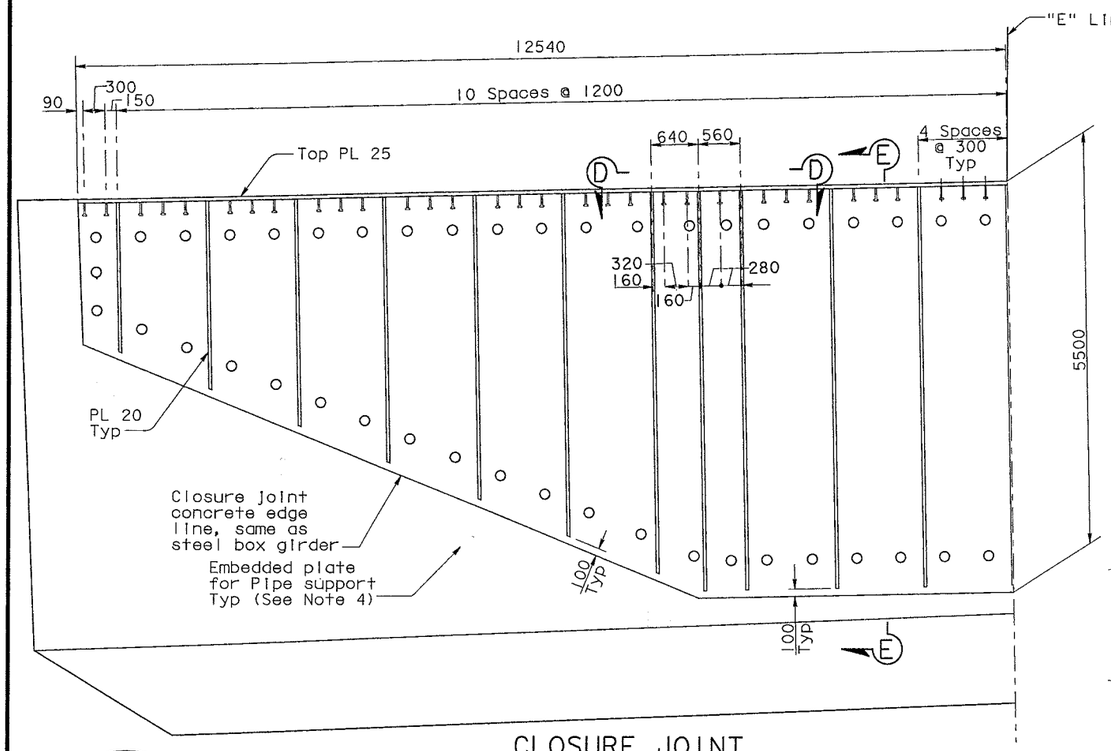
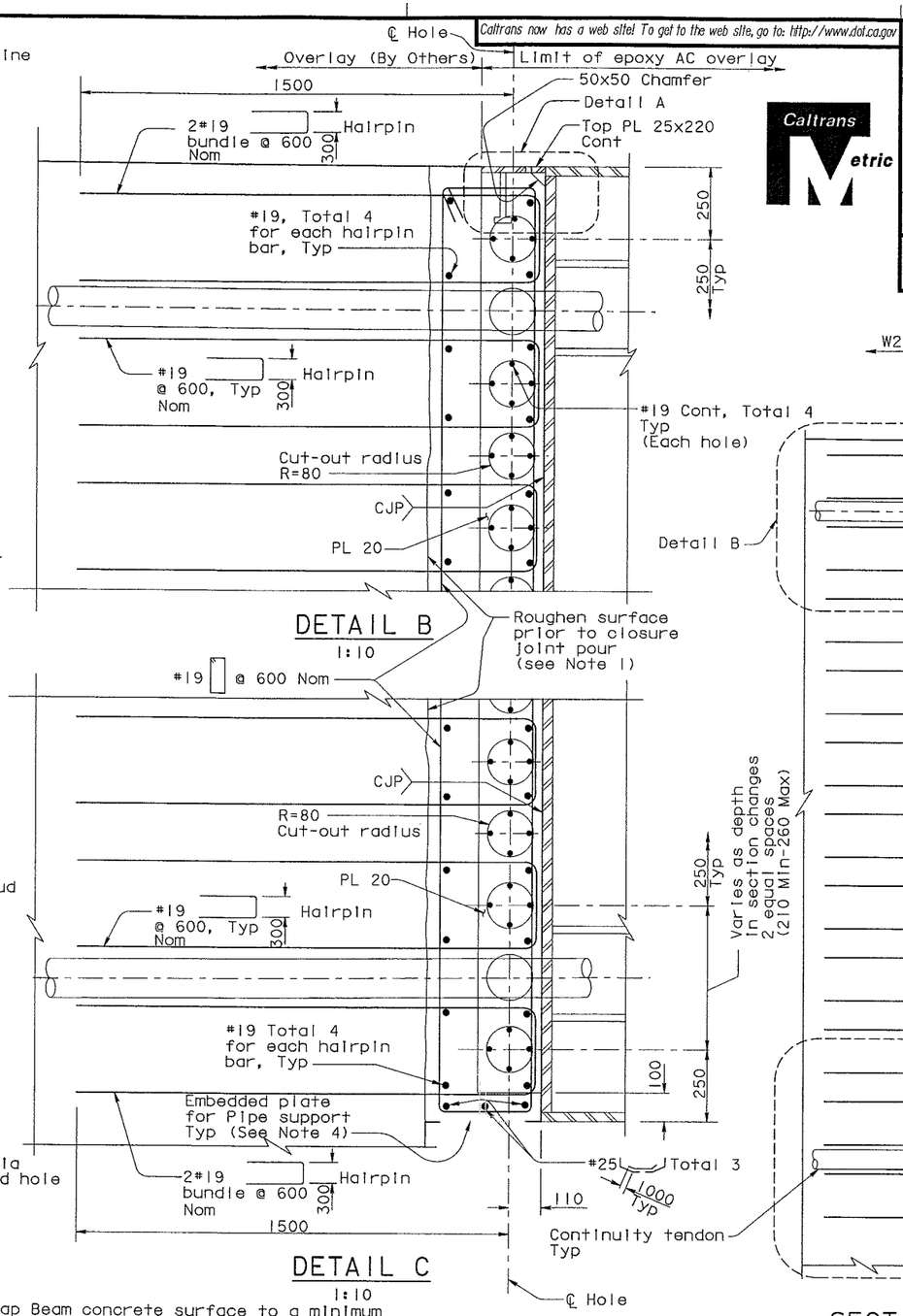
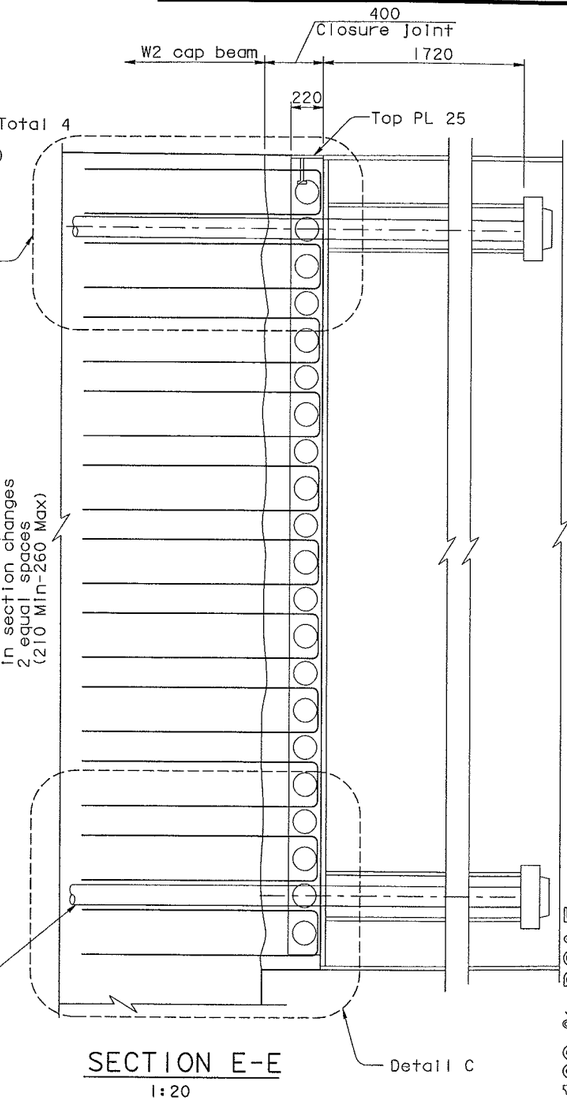
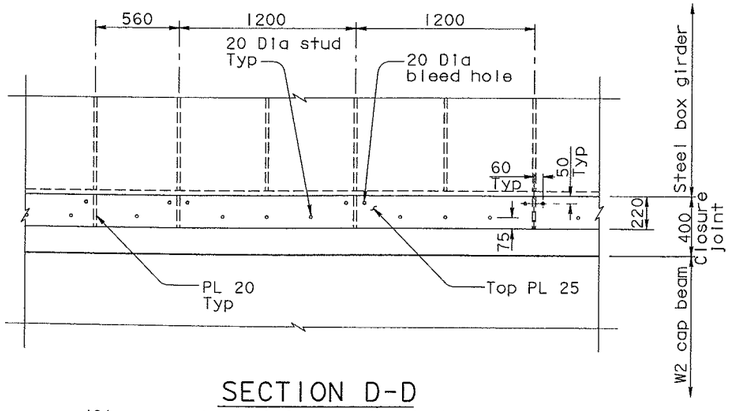


CLOSURE JOINT

(Closure joint reinforcement not shown for clarity)
1:40

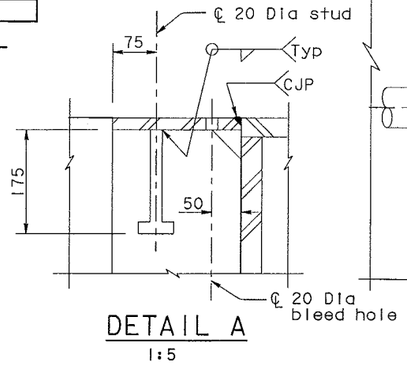






SECTION D-D

(Closure joint reinforcement not shown for clarity)
1:20



DETAIL A

1:5

NOTES:

1. Roughen the existing W2 Cap Beam concrete surface to a minimum of 5 mm amplitude prior to pouring the closure joint.
2. Reinforcement spacing shall be adjusted to avoid PT ducts if required.
3. All plate shall be ASTM A709M HPS 485W, unless specified otherwise.
4. For pipe support locations and details, see "Road Plans".

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

REGISTERED PROFESSIONAL ENGINEER — James P. Duxbury — No. C 64677 — Exp. 06/30/07 — CIVIL — STATE OF CALIFORNIA

FOR REVISIONS ONLY

MARK	DATE	DESCRIPTIONS	BY	CH'D
1	05/22/06	GENERAL REVISIONS	JD	AS
		REVISIONS		

CONTRACT CHANGE ORDER NO. ____
SHEET ____ OF ____

R. Valizadeh/V. Toan/Y. L./W. L./F. C.
DESIGN OVERSIGHT
SIGN OFF DATE 05/22/06

Rev. Date 5-18-98

	BY	CHECKED
DESIGN	J. Sun	M. Chen
DETAILS	J. Duxbury	M. Chen
QUANTITIES	S. Shi	D. Harrison

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

R. Manzanarez
PROJECT ENGINEER

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

CU 04
EA 0120F1

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

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 05/22/06

SHEET 080S25 OF

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

W2 CAP BEAM REINFORCEMENT DETAILS NO. 49

FILE => p:\bb\04-012001\sas readv august 2005\w2 - cco\decap48r-s.dgn

100 % PS&E

TIME PLOTTED => 10:14:13
07 JUN 2006 PLOTTED =>
USERNAME => vignatov

ITEM: LAYER 1 LONGITUDINAL BARS

Sht. #	Bundle	Bar Mark	Type	Location	No. Bars
58R1		25L1L01	L3	Top Skin	53
58R1		25L1L02	L3	Top Skin	76
58R1		25L1L03	L4	Top Skin	12
58R1		25L1L04	L4	Top Skin	66
58R1		25L1L05	B11	Top Skin	14
58R1		25L1L06	B11	Top Skin	6
58R1		25L1L07	L4	Top Skin	6
58R1		25L1L08	B3	Top Skin	8
58R1		25L1L09	B11	Top Skin	32
58R1		25L1L10	B11	Top Skin	6

ITEM: LAYER 1 TRANSVERSE BARS

Sht. #	Bundle	Bar Mark	Type	Location	No. Bars
58R1	X	43L1T01	STR	Top Trans	68
58R1	X	43L1T02	STR	Top Trans	46
58R1	X	43L1T03	STR	Top Trans	12
58R1	X	43L1T04	STR	Top Trans	24
58R1	X	43L1T05	STR	Top Trans	10
58R1	X	43L1T06	STR	Top Trans	6
58R1	X	43L1T07	STR	Top Trans	24
58R1	X	43L1T08	STR	Top Trans	116
58R1	X	43L1T09	STR	Top Trans	40
58R1	X	43L1T10	STR	Top Trans	18

ITEM: LAYER 2 LONGITUDINAL BARS

Sht. #	Bundle	Bar Mark	Type	Location	No. Bars
					0
					0
					0
					0

ITEM: LAYER 2 TRANSVERSE BARS

Sht. #	Bundle	Bar Mark	Type	Location	No. Bars
60R1		43L2T01	STR	Top Trans	72
60R1		43L2T02	STR	Top Trans	18
60R1	X	43L2T04	STR	Top Trans	8

ITEM: LAYER 3 LONGITUDINAL BARS

Sht. #	Bundle	Bar Mark	Type	Location	No. Bars
					0
					0
					0

ITEM: LAYER 3 TRANSVERSE BARS

Sht. #	Bundle	Bar Mark	Type	Location	No. Bars
60R1	X	43L3T01	STR	Top Trans	40
60R1	X	43L3T02	STR	Top Trans	36

ITEM: LAYER 4 LONGITUDINAL BARS

Sht. #	Bundle	Bar Mark	Type	Location	No. Bars
					0
					0
					0
					0
					0
					0

ITEM: LAYER 4 TRANSVERSE BARS

Sht. #	Bundle	Bar Mark	Type	Location	No. Bars
60R1	X	43L4T01	STR	Top Trans	12
69R1	X	43L4T02	STR	Top Trans	36
60R1	X	43L4T03	STR	Top Trans	8
60R1	X	43L4T04	STR	Top Trans	4
60R1	X	43L4T05	STR	Top Trans	8

ITEM: LAYER 5 LONGITUDINAL BARS

Sht. #	Bundle	Bar Mark	Type	Location	No. Bars
61R1		25L5L01	L3	Top Long	84
61R1		25L5L02	L3	Top Long	2
61R1		25L5L03	L3	Top Long	2
61R1		25L5L04	L3	Top Long	2
61R1		25L5L05	L3	Top Long	2
61R1		25L5L06	L3	Top Long	2
61R1		25L5L07	L3	Top Long	2
61R1		29L01	STR	Top Long	6

ITEM: LAYER 5 TRANSVERSE BARS

Sht. #	Bundle	Bar Mark	Type	Location	No. Bars
61R1		43L5T01	STR	Top Trans	29
61R1		43L5T02	STR	Top Trans	58
61R1		43L5T03	STR	Top Trans	1
61R1		43L5T04	STR	Top Trans	1
61R1		43L5T05	STR	Top Trans	1
61R1		43L5T06	STR	Top Trans	2
61R1		43L5T07	STR	Top Trans	2
61R1		43L5T08	STR	Top Trans	2
61R1		43L5T09	STR	Top Trans	2
61R1		43L5T10	STR	Top Trans	2
61R1		43L5T11	STR	Top Trans	2

ITEM: LAYER B1 LONGITUDINAL BARS

Sht. #	Bundle	Bar Mark	Type	Location	No. Bars
65R1		25B1L01	L5	Bot Long	15
65R1		25B1L02	L6	Bot Long	82

ITEM: LAYER B1 TRANSVERSE BARS

Sht. #	Bundle	Bar Mark	Type	Location	No. Bars
66R1		43B1T01	STR	Bot Trans	25
66R1		43B1T02	STR	Bot Trans	11
66R1		43B1T03	STR	Bot Trans	14
66R1		43B1T04	STR	Bot Trans	16
66R1		43B1T05	STR	Bot Trans	24

ITEM: LAYER B2 LONGITUDINAL BARS

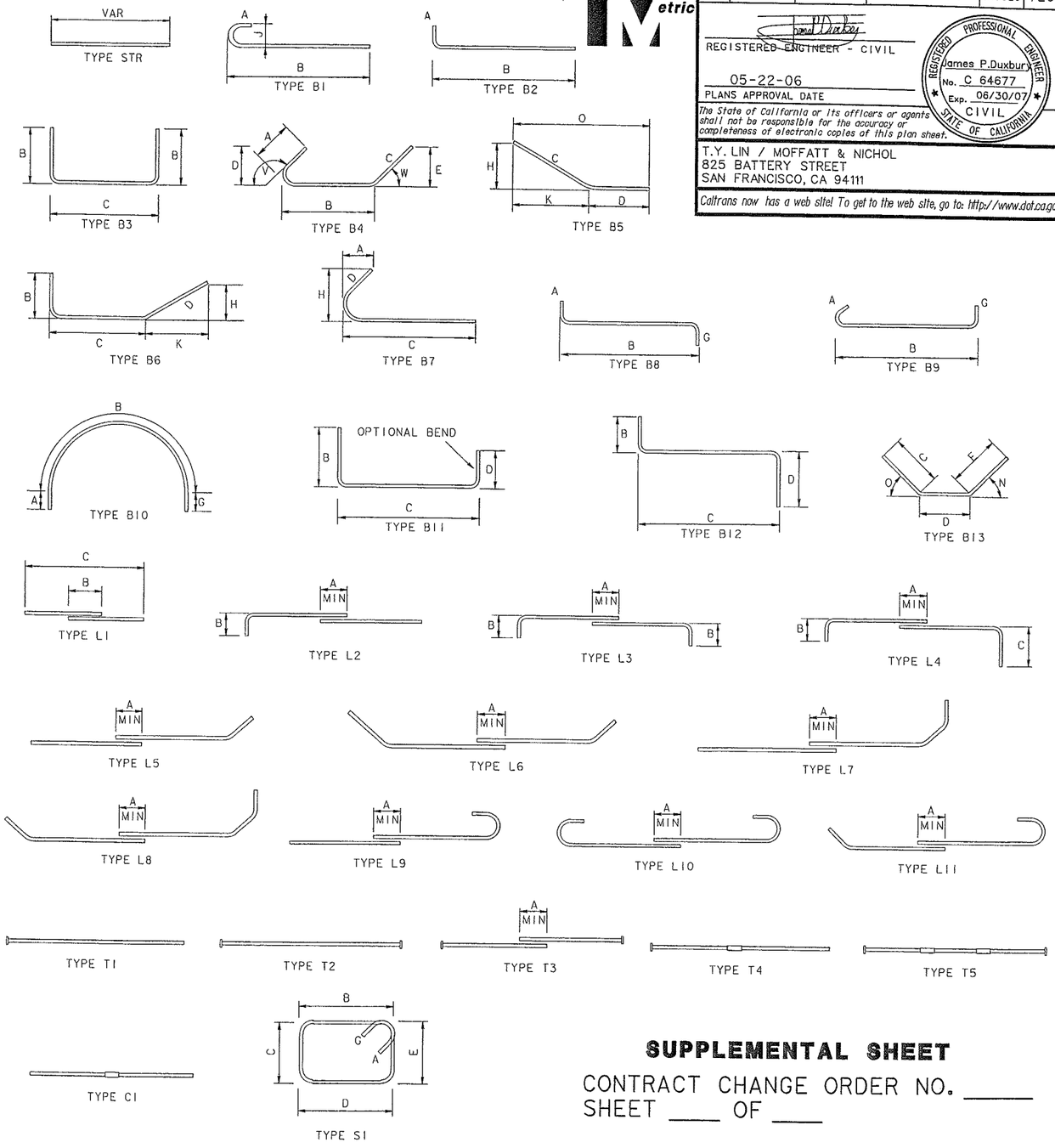
Sht. #	Bundle	Bar Mark	Type	Location	No. Bars

ITEM: LAYER B2 TRANSVERSE BARS

Sht. #	Bundle	Bar Mark	Type	Location	No. Bars
67R1		43B2T01	STR	Bot Trans	28
67R1		43B2T02	STR	Bot Trans	24
67R1		43B2T03	STR	Bot Trans	3

Barlist schedules are provided for general guidance, and shall not be used as a basis for quantity estimation. Barlist schedules shall not be for fabrication purposes. Final weights, length, and geometries shall be the responsibility of the Contractor.

BAR BENDING DIAGRAMS



ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

Caltrans Metric

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	497S26	1204

REGISTERED ENGINEER - CIVIL

05-22-06
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — James P. Duxbury — No. C 64677 — Exp. 06/30/07 — CIVIL — STATE OF CALIFORNIA

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SAN FRANCISCO, CA 94111

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SUPPLEMENTAL SHEET

CONTRACT CHANGE ORDER NO. ____
SHEET ___ OF ___

R. Vaiizadeh/V. Toan/Y. L./W. L./F. C.
DESIGN OVERSIGHT
SIGN OFF DATE 05/22/06

Rev. Date: 5-18-98

DESIGN	BY J. Duxbury	CHECKED A. Sanjines
DETAILS	BY J. Duxbury	CHECKED A. Sanjines
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)

W2 CAP BEAM REINFORCEMENT DETAILS NO. 50

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

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 05/22/06

SHEET 080S26 OF

CU 04
EA 0120F1

FILE => p:\bb\04-012001\sas ready august 2005\w2 - cco\deccp49r-s.dgn

USERNAME => vlgnatovs DATE PLOTTED => 07 JUN 2006 TIME PLOTTED => 08:16:15

ITEM: LAYER B3 LONGITUDINAL BARS

Sht. #	Bundle	Bar Mark	Type	Location	No. Bars

ITEM: LAYER B3 TRANSVERSE BARS

Sht. #	Bundle	Bar Mark	Type	Location	No. Bars
68R1		43B3T01	STR	Bot Trans	28
68R1		43B3T02	STR	Bot Trans	5

ITEM: LAYER B4 LONGITUDINAL BARS

Sht. #	Bundle	Bar Mark	Type	Location	No. Bars
70R1/80S10		25B4L01	L8	Bot Long	196
70R1		25B4L02	B13	Bot Long	22
70R1		25B4L03	STR	Bot Long	8
70R1		25B4L04	STR	Bot Long	8
70R1		25B4L05	B5	Bot Long	22
70R1/80S10		25B4L06	L7	Bot Long	15

ITEM: LAYER B4 TRANSVERSE BARS

Sht. #	Bundle	Bar Mark	Type	Location	No. Bars
69R1	X	43B4T01	STR	Bot Trans	70
69R1	X	43B4T02	STR	Bot Trans	44
69R1	X	43B4T03	STR	Bot Trans	28
69R1		43B4T04	STR	Bot Trans	2
69R1	X	43B4T05	STR	Bot Trans	40
69R1	X	43B4T06	STR	Bot Trans	56
69R1	X	43B4T07	STR	Bot Trans	80
69R1	X	43HB4T01	T3	Bot Trans	18
69R1	X	43HB4T03	T1	Bot Trans	36
69R1	X	43HB4T04	T2	Bot Trans	16

ITEM: WEST FACE LONGITUDINAL BARS

Sht. #	Bundle	Bar Mark	Type	Location	No. Bars
80S10/S11		25L2L01	B2	West Face	48
80S10/S11		25L2L02	B2	West Face	8
80S10/S11		25L2L03	STR	West Face	32
80S10/S11		25L4L02	B2	West Face	12
80S10/S11		25L4L03	B3	West Face	36
80S10/S11		25L4L04	B2	West Face	60
80S10/S11		25L4L05	STR	West Face	48
80S10/S11		25V02	STR	West Face	73
80S10/S11		25V03	B4	West Face	15
80S10/S11		25V04	B4	West Face	97
80S10/S11		25V05	STR	West Face	42
80S10/S11		25V06	B6	West Face	36
80S10/S11		25V07	B4	West Face	82
80S10/S11		25V08	B4	West Face	60

ITEM: WEST FACE TRANSVERSE BARS

Sht. #	Bundle	Bar Mark	Type	Location	No. Bars
75R1		36L2T01	STR	West Face	1
75R1		36L4T01	STR	West Face	1
75R1		25L5T02	B2	West Face	1
75R1		25L5T03	B2	West Face	1
75R1		36L5T04	STR	West Face	1
75R1		25L6T01	B2	West Face	1
75R1		25L6T02	B2	West Face	1
75R1		25L6T03	B2	West Face	1
75R1		36L6T04	STR	West Face	1
75R1		25L6T05	B2	West Face	1
75R1		25L6T06	B2	West Face	1
75R1		25L6T07	B2	West Face	1
75R1		25L7T01	B2	West Face	1
75R1		25L7T02	B2	West Face	1
75R1		25L7T03	B2	West Face	1
75R1		36L7T04	STR	West Face	1
75R1		25L7T05	B2	West Face	1
75R1		25L7T06	B2	West Face	1
75R1		25L7T07	B2	West Face	1
75R1		25L8T01	B2	West Face	1
75R1		25L8T02	B2	West Face	1
75R1		25L8T03	B2	West Face	1
75R1		36L8T04	STR	West Face	1
75R1		25L8T05	B2	West Face	1
75R1		25L8T06	B2	West Face	1
75R1		25L8T07	B2	West Face	1
75R1		25L9T02	B2	West Face	1
75R1		25L9T03	B2	West Face	1
75R1		36L9T04	STR	West Face	1
75R1		36L9T05	B2	West Face	1
75R1		36L9T06	B2	West Face	1
75R1		25L10T02	B2	West Face	1
75R1		25L10T03	B2	West Face	1
75R1		36L10T04	STR	West Face	1
75R1		25L10T05	B2	West Face	1
75R1		25L10T06	B2	West Face	1
75R1		25L11T01	B2	West Face	1
75R1		25L11T02	B2	West Face	1
75R1		36L11T03	STR	West Face	1

ITEM: EAST FACE OUTER LAYER LONGITUDINAL BARS

Sht. #	Bundle	Bar Mark	Type	Location	No. Bars
80S10		25V01	STR	East Face	227

ITEM: WEST FACE INTERIOR TRANSVERSE BARS

Sht. #	Bundle	Bar Mark	Type	Location	No. Bars
76R1		36L4T21	STR	West Face	1
76R1		36L5T24	STR	West Face	1
76R1	X	36L6T23	STR	West Face	2
76R1	X	36L6T24	STR	West Face	2
76R1/77R1	X	36L6T33	STR	West Face	2
77R1	X	36L6T35	STR	West Face	2
76R1	X	36L7T23	STR	West Face	2
76R1	X	36L7T24	STR	West Face	2
76R1	X	36L7T25	STR	West Face	2
76R1/77R1	X	36L7T33	STR	West Face	2
77R1	X	36L7T35	STR	West Face	2
76R1	X	36L8T23	STR	West Face	2
76R1	X	36L8T24	STR	West Face	2
76R1	X	36L8T25	STR	West Face	2
76R1/77R1	X	36L8T33	STR	West Face	2
77R1	X	36L8T35	STR	West Face	2
76R1		36L9T23	STR	West Face	1
76R1		36L9T24	STR	West Face	1
76R1	X	36L9T25	STR	West Face	2
76R1	X	36L10T23	STR	West Face	2
76R1	X	36L10T24	STR	West Face	2
76R1/77R1	X	36L10T33	STR	West Face	2
77R1	X	36L10T35	STR	West Face	2
76R1		36L11T22	STR	West Face	1
76R1		36L11T23	STR	West Face	1
76R1		36L12T21	STR	West Face	1
76R1		36L13T21	STR	West Face	1
76R1		36L14T21	STR	West Face	1
76R1		36L15T21	STR	West Face	1
80S13		25V09	B1	West Face	15
80S13		25V10	L11	West Face	82

ITEM: EAST FACE INTERIOR TRANSVERSE BARS

Sht. #	Bundle	Bar Mark	Type	Location	No. Bars
80R1		36L4T81	STR	East Face	1
80R1		36L5T81	STR	East Face	1
80R1		36L6T81	STR	East Face	1
80R1		36L7T81	STR	East Face	1
80R1		36L8T81	STR	East Face	1
80R1		36L9T81	STR	East Face	1
80R1		36L10T81	STR	East Face	1
80R1		36L11T81	STR	East Face	1
80R1		36L12T81	STR	East Face	1
80R1		36L13T81	STR	East Face	1
80S14		25V11	L9	East Face	90

ITEM: EAST FACE EXTERIOR TRANSVERSE BARS

Sht. #	Bundle	Bar Mark	Type	Location	No. Bars
79R1		36L4T91	STR	East Face	1
79R1		36L5T91	STR	East Face	1
79R1		36L6T91	STR	East Face	1
79R1		36L7T90	STR	East Face	1
79R1		36L7T91	STR	East Face	1
79R1		36L8T90	STR	East Face	1
79R1		36L8T91	STR	East Face	1
79R1		36L8T92	STR	East Face	1
79R1		36L9T90	STR	East Face	1
79R1		36L9T91	STR	East Face	1
79R1		36L9T92	STR	East Face	1
79R1		36L10T91	STR	East Face	1
79R1		36L10T92	STR	East Face	1
79R1		36L11T91	STR	East Face	1
79R1		36L11T92	STR	East Face	1
79R1		36L12T90	STR	East Face	1
79R1		36L12T91	STR	East Face	1
79R1		36L13T90	STR	East Face	1
79R1		36L13T91	STR	East Face	1
79R1		36L13T92	STR	East Face	1
79R1		36L14T91	STR	East Face	1

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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	497S27	1204

REGISTERED ENGINEER - CIVIL

05-22-06
PLANS APPROVAL DATE

PROFESSIONAL ENGINEER — REGISTERED — James P.Duxbury — No. C 64677 — Exp. 06/30/07 — CIVIL — STATE OF CALIFORNIA

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SUPPLEMENTAL SHEET

CONTRACT CHANGE ORDER NO. ____
SHEET ____ OF ____

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 05/22/06

DESIGN	BY J. Duxbury	CHECKED A. Sanjines
DETAILS	BY J. Duxbury	CHECKED A. Sanjines
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)

W2 CAP BEAM REINFORCEMENT DETAILS NO.51

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 → 05/22/06
REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET 080S27 OF

FILE => p:\bb\04-012001\sas ready august 2005\w2 - cco\aecap50r-s.dgn

USERNAME => vignatovs DATE PLOTTED => 07 JUN 2006 TIME PLOTTED => 08:17:46

Caltrans Metric

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	497S28	1204

REGISTERED ENGINEER - CIVIL

05-22-06
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — James P. Duxbury — No. C 64677 — Exp. 06/30/07 — CIVIL — STATE OF CALIFORNIA

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ITEM: TRANSVERSE DIAPHRAGM TRANSVERSE BARS

Sht. #	Bundle	Bar Mark	Type	Location	No. Bars
80S2/S3		36L4T40	STR	Trans Diaph	2
80S2/S3		36L5T40	STR	Trans Diaph	2
80S2/S3		36L6T40	STR	Trans Diaph	2
80S2/S3		36L7T40	STR	Trans Diaph	4
80S2/S3		36L8T40	STR	Trans Diaph	4
80S2/S3		36L9T40	STR	Trans Diaph	4
80S2/S3		36L10T40	STR	Trans Diaph	4
80S2/S3		36L11T40	STR	Trans Diaph	4
80S2/S3		36L12T40	STR	Trans Diaph	4
80S2/S3		36L13T40	STR	Trans Diaph	8
80S2/S3		36L13T41	STR	Trans Diaph	4
80S2/S3		36L14T40	STR	Trans Diaph	8
80S2/S3		36L14T41	STR	Trans Diaph	4
80S2/S3		36L15T40	STR	Trans Diaph	4
80S2/S3		29HVTD01	T3	Trans Diaph	126
80S2/S3		29HVTD02	T3	Trans Diaph	24
80S2/S3		29HVTD03	T2	Trans Diaph	24
80S2/S3		25VTD01	STR	Trans Diaph	264

ITEM: LONGITUDINAL DIAPHRAGM TRANSVERSE BARS

Sht. #	Bundle	Bar Mark	Type	Location	No. Bars
80S4/S05		25L4L20	L10	Long Diaph	4
80S4/80S05		25L5L20	L10	Long Diaph	4
80S4/S05		25L6L20	L10	Long Diaph	4
80S4/S05		25L7L20	L10	Long Diaph	4
80S4/S05		25L8L20	L10	Long Diaph	4
80S4/S05		25L9L20	L10	Long Diaph	4
80S4/S05		25L10L20	L10	Long Diaph	4
80S4/S05		25L11L20	L9	Long Diaph	4
80S4/S05		25L12L20	L9	Long Diaph	4
80S4/S05		25L13L20	L9	Long Diaph	4
80S4/S05		25L14L20	STR	Long Diaph	4
80S4/S05		25L14L21	B2	Long Diaph	4
80S4/S05		25L15L20	STR	Long Diaph	4
80S4/S05		25L15L21	B2	Long Diaph	4
80S4/S05		25HVLD01	T2	Long Diaph	44
80S4/S05		29HVLD01	T2	Long Diaph	62
80S4/S05		25HVLD02	T2	Long Diaph	12
80S4/S05		29HVLD02	T1	Long Diaph	28

ITEM: INTERIOR LAYER LONGITUDINAL BARS (LAYERS 5-15)

Sht. #	Bundle	Bar Mark	Type	Location	No. Bars
80S16-S19		25L4L01	L10	Int Long	44
80S16-S19		25L4L02	B1	Int Long	6
80S16-S19		25L4L03	B1	Int Long	6
80S16-S19		25L4L04	B1	Int Long	116
80S16-S19		25L5L01	L10	Int Long	44
80S16-S19		25L5L02	B1	Int Long	6
80S16-S19		25L5L03	B1	Int Long	6
80S16-S19		25L5L04	B1	Int Long	116
80S16-S19		25L5L05	B1	Int Long	48
80S16-S19		25L5L06	B1	Int Long	12
80S16-S19		25L5L07	B1	Int Long	12
80S16-S19		25L6L01	L10	Int Long	44
80S16-S19		25L6L02	B1	Int Long	6
80S16-S19		25L6L03	B1	Int Long	6
80S16-S19		25L6L04	B1	Int Long	116
80S16-S19		25L6L05	B1	Int Long	48
80S16-S19		25L6L06	B1	Int Long	12
80S16-S19		25L6L07	B1	Int Long	12
80S16-S19		25L7L01	L10	Int Long	44
80S16-S19		25L7L04	B1	Int Long	116
80S16-S19		25L7L05	B1	Int Long	48
80S16-S19		25L7L06	B1	Int Long	12
80S16-S19		25L7L07	B1	Int Long	12
80S16-S19		25L8L01	L10	Int Long	44
80S16-S19		25L8L04	B1	Int Long	116
80S16-S19		25L8L05	B1	Int Long	48
80S16-S19		25L8L06	B1	Int Long	12
80S16-S19		25L8L07	B1	Int Long	12
80S16-S19		25L9L01	B1	Int Long	44
80S16-S19		25L9L04	B1	Int Long	116
80S16-S19		25L9L05	B1	Int Long	48
80S16-S19		25L9L06	B1	Int Long	12
80S16-S19		25L9L07	B1	Int Long	12
80S16-S19		25L10L01	B1	Int Long	44
80S16-S19		25L10L04	B1	Int Long	116
80S16-S19		25L10L05	B1	Int Long	48
80S16-S19		25L10L06	B1	Int Long	12
80S16-S19		25L10L07	B1	Int Long	12
80S16-S19		25L11L01	B1	Int Long	44
80S16-S19		25L11L04	B1	Int Long	116
80S16-S19		25L11L05	B1	Int Long	48
80S16-S19		25L11L06	B1	Int Long	12
80S16-S19		25L11L07	B1	Int Long	12
80S16-S19		25L12L01	B1	Int Long	44
80S16-S19		25L12L04	B1	Int Long	116
80S16-S19		25L12L05	B1	Int Long	48
80S16-S19		25L12L06	B1	Int Long	12
80S16-S19		25L12L07	B1	Int Long	12
80S16-S19		25L13L01	B1	Int Long	44
80S16-S19		25L13L04	B1	Int Long	116
80S16-S19		25L13L05	B1	Int Long	48
80S16-S19		25L13L06	B1	Int Long	12
80S16-S19		25L13L07	B1	Int Long	12
80S16-S19		25L14L01	L11	Int Long	44
80S16-S19		25L14L04	B2	Int Long	116
80S16-S19		25L14L05	B2	Int Long	48
80S16-S19		25L14L06	B2	Int Long	12
80S16-S19		25L14L07	B2	Int Long	12
80S16-S19		25L15L01	L11	Int Long	44
80S16-S19		25L15L04	B2	Int Long	116
80S16-S19		25L15L05	B2	Int Long	48

ITEM: LONGITUDINAL DIAPHRAGM AT JACKING FRAME

Sht. #	Bundle	Bar Mark	Type	Location	No. Bars
80S6		25JS01	B3	Jacking Frame	18
80S6		25JS02	B3	Jacking Frame	9
80S6		29HV01	T1	Jacking Frame	36
80S6		29HV02	T2	Jacking Frame	36
80S7		29HV03	T2	Jacking Frame	60
80S7		29HV04	T2	Jacking Frame	16
80S7		29HV05	T2	Jacking Frame	36
80S7		29HV06	T2	Jacking Frame	36
80S7		29HV07	T2	Jacking Frame	48
80S7		29HV08	T2	Jacking Frame	36
80S6		25HT01	T2	Jacking Frame	45
80S6		29HT01	T2	Jacking Frame	42
80S6		29HT02	T5	Jacking Frame	77
80S6		29HT03	T2	Jacking Frame	22
80S6		29JL01	T4	Jacking Frame	8
80S6		29JL02	T4	Jacking Frame	8
80S6		29JL03	T4	Jacking Frame	8
80S6		29JL04	T4	Jacking Frame	8
80S6		29JL05	T4	Jacking Frame	8
80S6		25JS03	S1	Jacking Frame	22
80S6		25JS04	B9	Jacking Frame	44

Barlist schedules are provided for general guidance, and shall not be used as a basis for quantity estimation. Barlist schedules shall not be for fabrication purposes. Final weights, length, and geometries shall be the responsibility of the Contractor.

SUPPLEMENTAL SHEET

CONTRACT CHANGE ORDER NO. _____
SHEET ___ OF ___

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

R. Vallzadeh/V. Toan/Y. L./W. L./F. C.
DESIGN OVERSIGHT
SIGN OFF DATE 05/22/06

	BY	CHECKED
DESIGN	J. Duxbury	A. Sanjines
DETAILS	J. Duxbury	A. Sanjines
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)

W2 CAP BEAM REINFORCEMENT DETAILS NO. 52

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): 05/22/06

SHEET 080S28 OF

FILE => p:\bb\04-012001\sas readv august 2005\w2 - cco\decap5ir-s.dgn

USERNAME => vignatovs DATE PLOTTED => 07 JUN 2006 TIME PLOTTED => 08:19:20