| DIST | COUNTY | ROUTE | KILOMETER POST TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | SF | 80 | 13.2/13.9 | 865R1 | 1204 |

REGISTERED CIVIL ENGINEER DATE

09/15/2006
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — EFTHYMIOS DELIS — No. 51434 — Exp. 6-30-08 — CIVIL — STATE OF CALIFORNIA

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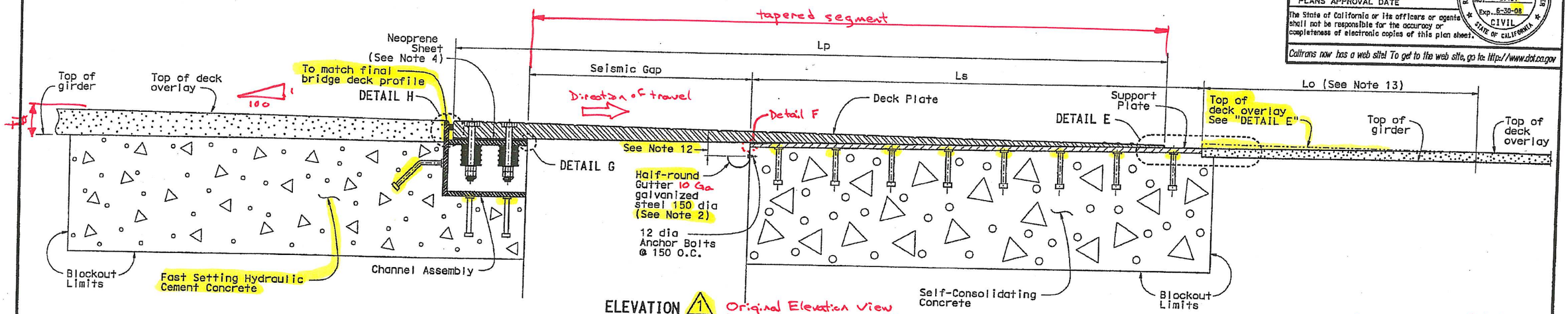
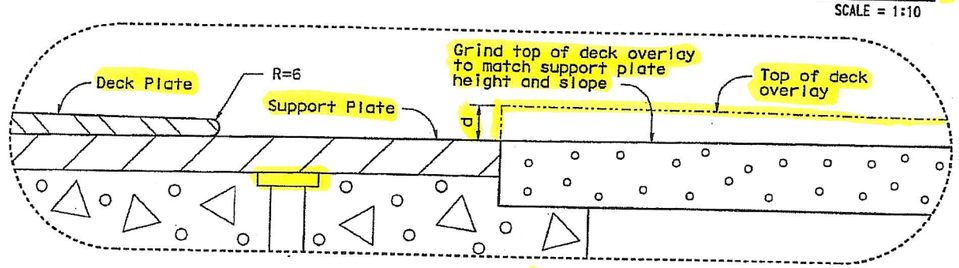
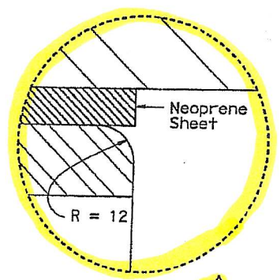



ELEVATION 1
SCALE = 1:10

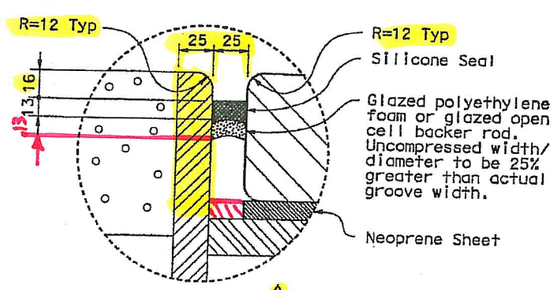
Original Elevation view has been mirrored with respect to the vertical axis.




DETAIL E 1
SCALE = 1:2




DETAIL G 1
SCALE = 1:1




DETAIL H 1
SCALE = 1:2

THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

| JOINT INFORMATION 1 | | | |
|---|---|---|---|
| LOCATION | | HINGE AE | HINGE AW |
| SKEW (°) | | 0 | 0 |
| DECK PLATE | Thickness $t_d$ (mm) | 90 | 90 |
| | Length Lp (mm) | 3800 | 3800 |
| SUPPORT PLATE | Thickness $t_s$ (mm) | 32 | 32 |
| | Length Ls (mm) | 2400 | 2400 |
| SEISMIC GAP @ 20° | (mm) | 1200 | 1200 |
| MAXIMUM DECK GRIND | d (mm) | 13 | 24 |

| MARK | DATE | REVISIONS DESCRIPTIONS | BY | CH'D |
|---|---|---|---|---|
| 1 | 9/15/06 | Joint improvements | TD | AK |

CONTRACT CHANGE ORDER NO. 25
SHEET ___ OF ___

NOTES: 1 Original Notes 1, 8, 10, 11, and 14 deleted.

1. Install Seismic Joint after erecting bike path, placing deck overlay up to the limit of the blockout, utilities and barrier.
2. Use caulking or sealant between gutter and concrete.
3. Seismic Joint to be used in conjunction with closure pour. Closure pour shall not be placed until final deck surface is within the tolerance specified.
4. Thirty-Seven mm holes in neoprene sheets shall be drilled or punched so that the neoprene is not distorted at the time of installation. See "CHANNEL ASSEMBLY DETAILS NO. 2" sheet.
5. For deck plate details see " DECK PLATE DETAILS NO. 1" and " DECK PLATE DETAILS NO. 2" sheets.
6. For mild reinforcement in blockout areas, see "REINFORCRMENT DETAILS" sheet. Not all mild reinforcement is shown for clarity.
7. For channel assembly details, see "CHANNEL ASSEMBLY DETAILS NO 1" and "CHANNEL ASSEMBLY DETAILS NO 2".
8. Place deck plate, support plate and channel assembly so that full bearing is achieved between i) deck and support plates and ii)deck plate and channel assembly.
9. Self-consolidating concrete shall be used in support plate blockout.
10. Fast setting hydraulic cement concrete shall be used in channel assembly blockout.
11. Catwalk for maintenance crew within seismic gap not shown.
12. Gutter shall be placed on the same side as the support plate, 75 mm minimum from the deck plate, at a 2% slope.
13. Lo is the length of ground deck overlay and is equal to d/(Support ℄ slope - Profile grade).
14. For support plate details see "SUPPORT PLATE DETAILS" sheet.

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| | BY | CHECKED |
|---|---|---|
| DESIGN | E DELIS | A KARTOUM |
| DETAILS | A R DUDSAK | A KARTOUM |
| QUANTITIES | E DELIS | A KARTOUM |

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

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

STATE OF CALIFORNIA
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DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
SPECIAL DESIGNS BRANCH

CU 04
EA 0120F1

FILE => spec_des_br_pro|/04-0120F1/zoaqp01.dgn

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

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES 1/24/06 8/15/06 10/30/06

SHEET 448R1 OF

STRUCTURES DESIGN DETAIL SHEET (METRIC) (REV.03-17-04)

SAN FRANCISCO OAKLAND BAY BRIDGE
EAST SPAN SEISMIC SAFETY PROJECT

SELF-ANCHORED SUSPENSION BRIDGE
(SUPERSTRUCTURE & TOWER)

SEISMIC JOINT (HINGE A)

CROSS SECTION

USERNAME => tdudsak DATE PLOTTED => 31-OCT-2006 TIME PLOTTED => 08:07

| DIST | COUNTY | ROUTE | KILOMETER POST TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | SF | 80 | 13.2/13.9 | 866R1 | 1204 |

REGISTERED CIVIL ENGINEER DATE

09-15-2006
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — EFTHYMIOS DELIS — No. 51434 — Exp. 6-30-08 — CIVIL — STATE OF CALIFORNIA

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| MARK | DATE | DESCRIPTIONS / REVISIONS | BY | CH'D |
|---|---|---|---|---|
| 1 | 9/15/06 | Sheet numbering/Legend | TD | AK |

CONTRACT CHANGE ORDER NO. 25
SHEET ___ OF ___

## INDEX TO PLANS 1

| SHEET NO. | TITLE |
|---|---|
| 865R1 | CROSS SECTION |
| 866R1 | INDEX TO PLANS |
| 867R1 | DECK PLATE DETAILS NO. 1 |
| 868R1 | DECK PLATE DETAILS NO. 2 |
| 869R1 | CHANNEL ASSEMBLY DETAILS NO. 1 |
| 870R1 | CHANNEL ASSEMBLY DETAILS NO. 2 |
| 871R1 | SUPPORT PLATE DETAILS |
| 872R1 | REINFORCEMENT DETAILS |
| 872S1 | CONSTRUCTION SEQUENCE |

## GENERAL NOTES LOAD FACTOR DESIGN 1

**DESIGN:**

Bridge Design Specifications (2000 LFD, AASHTO with Interims and revisions by Caltrans )

**LIVE LOADING:**

HS20-44, Alternative Military and Permit Design loads impact: 75%

**STRUCTURAL STEEL:**

ASTM A709/A709M Grade 50 [345] unless noted otherwise.

**BOLTS:**

ASTM A449 galvanized unless noted otherwise.

**WELDING:**

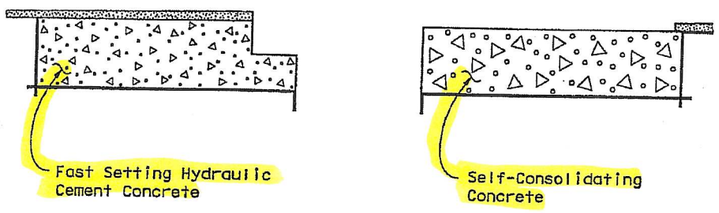
All structural steel plate interface connections shall be made with continuous complete joint penetration (CJP) welds unless noted otherwise.

**SEISMIC LOADING:**

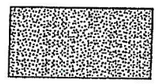
**STRUCTURAL CONCRETE:**

Mild Steel Reinforcement (ASTM A706) $f_y$ =415 MPa, $f_u$ =738 MPa

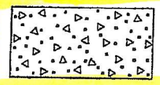
Previously, there were two sets of cross-sections: one for Eastbound and one for Westbound.



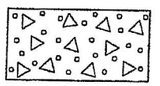

## LEGEND 1



Epoxy AC Overlay



Fast Setting Hydraulic Cement Concrete (FSHCC)
($f'_{ci}$ = 14 MPa @ 3 hours
$f'_c$ = 35 MPa @ 56 days)



Self-Consolidating Concrete (SCC) Bridge
($f'_c$ = 35 MPa @ 56 days)

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

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES: 1/31/06 | 5/31/06 | 10/30/06 | SHEET 449R1 | OF

SAN FRANCISCO OAKLAND BAY BRIDGE
EAST SPAN SEISMIC SAFETY PROJECT
SELF-ANCHORED SUSPENSION BRIDGE
(SUPERSTRUCTURE & TOWER)
SEISMIC JOINT (HINGE A)
INDEX TO PLANS

STRUCTURES DESIGN DETAIL SHEET (METRIC) (REV.03-17-04)

USERNAME => tdudsak DATE PLOTTED => 31-OCT-2006 TIME PLOTTED => 08:07

| DIST | COUNTY | ROUTE | KILOMETER POST TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | SF | 80 | 13.2/13.9 | 867R1 | 1204 |

REGISTERED CIVIL ENGINEER DATE

09/15/2006
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
EFTHYMIOS DELIS
No. 51434
Exp. 6-30-08
CIVIL
STATE OF CALIFORNIA

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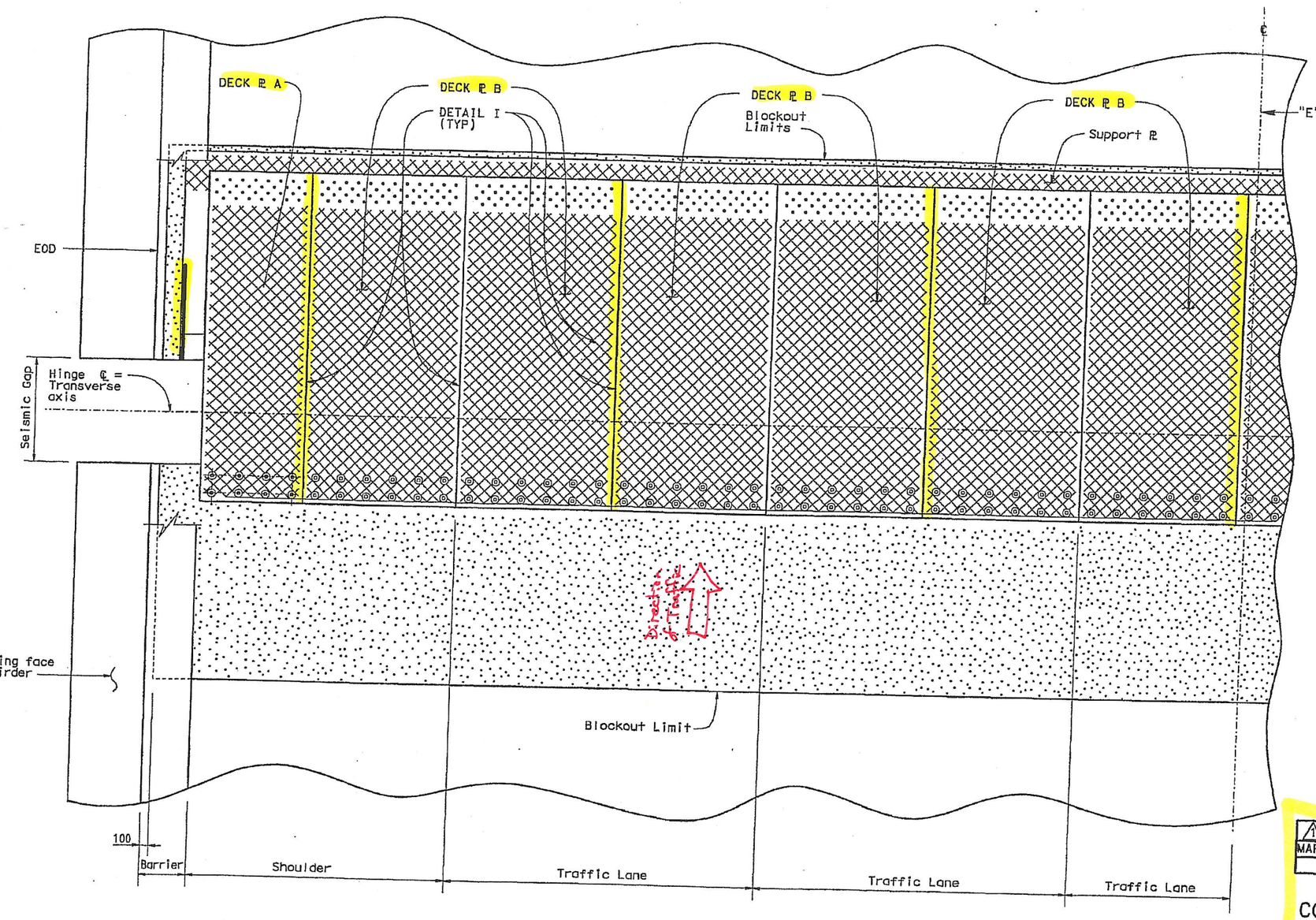
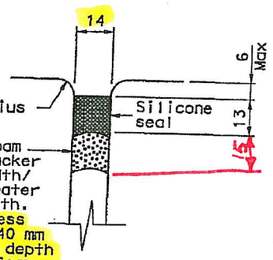



EXPANSION JOINT (HALF) PLAN 1

SCALE 1:25




DETAIL I 1

SCALE = 1:1

NOTES: 1

1. For Plates A and B see "DECK PLATE DETAILS NO 2" sheet.
2. Denotes deck Steel Plate with V-grooves at ±45°.
3. Deck Plate A matches with Support Plate A and the Channel Assembly A (Module A) Likewise for Module B.
   Channel assemblies are 14 wider than their corresponding deck plates.
4. One module "B" is placed per half traffic lane.
5. Portions of barriers are not shown for clarity.

| MARK | DATE | DESCRIPTIONS | BY | CH'D |
|---|---|---|---|---|
| | | REVISIONS | | |
| 1 | 9/15/06 | Steel ℄s & Seal changes | TD | AK |

CONTRACT CHANGE ORDER NO. 25
SHEET ___ OF ___

THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

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|---|---|---|
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| QUANTITIES | E DELIS | A KARTOUM |

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

DISREGARD PRINTS BEARING EARLIER REVISION DATES

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

SEISMIC JOINT (HINGE A)

DECK PLATE DETAILS NO 1

| REVISION DATES | | | | | | | | | | SHEET | OF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1/24/06 | 8/18/06 | 10/30/06 | | | | | | | | 450R1 | |

STRUCTURES DESIGN DETAIL SHEET (METRIC) (REV.03-17-04)

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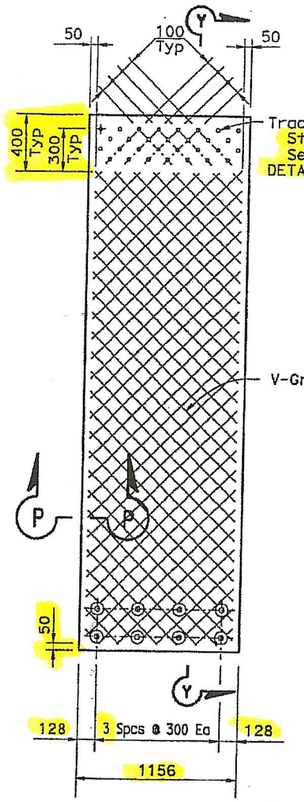
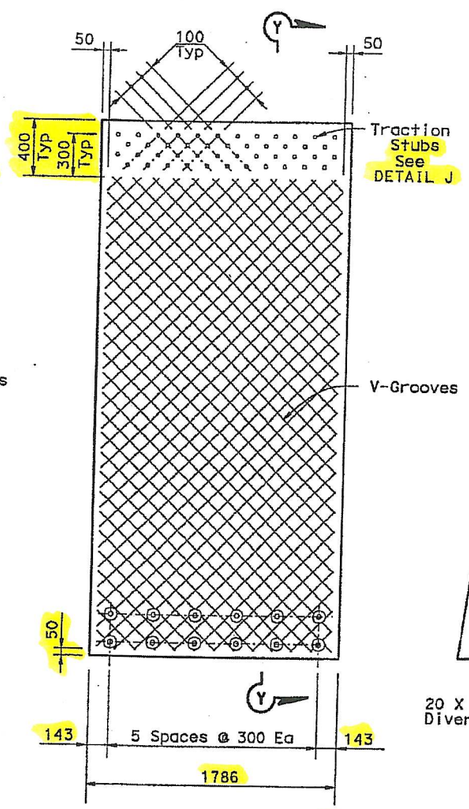
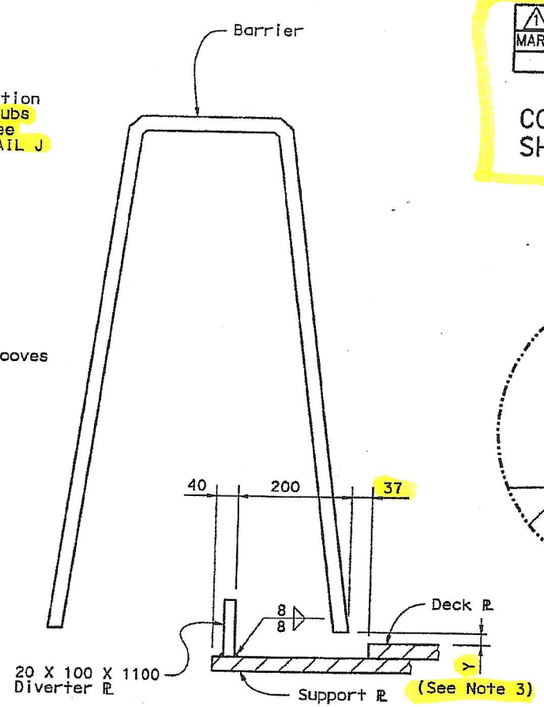
USERNAME =>ydudak DATE PLOTTED => 31-OCT-2006 TIME PLOTTED => 08:08




DECK PLATE A 1
SCALE = 1:20




DECK PLATE B 1
SCALE = 1:20




SECTION P-P 1
SCALE = 1:5

| MARK | DATE | REVISIONS | BY | CH'D |
|---|---|---|---|---|
| 1 | 9/15/06 | Deck ℙ changes | TD | AK |

CONTRACT CHANGE ORDER NO. 25
SHEET ___ OF ___

| DIST | COUNTY | ROUTE | KILOMETER POST TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | SF | 80 | 13.2/13.9 | 868R1 | 1204 |

REGISTERED CIVIL ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER — EFTHYMIOS DELIS — No. 51434 — Exp. 6-30-08 — CIVIL — STATE OF CALIFORNIA

09/15/2006
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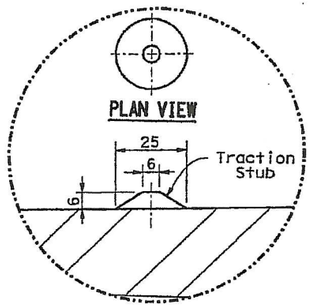
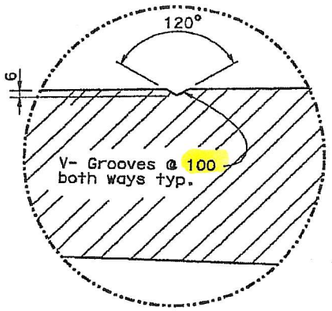
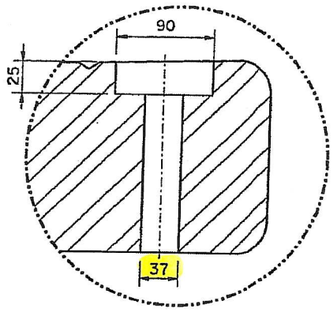



DETAIL J 1
SCALE = 1:1



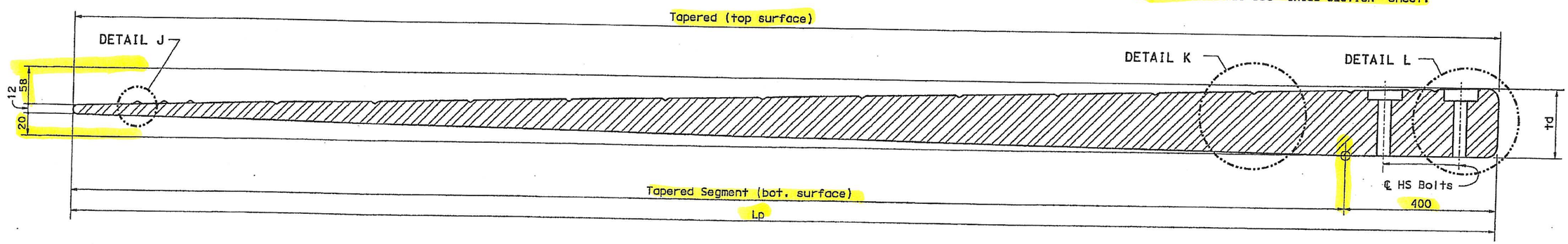

DETAIL K 1
SCALE = 1:2.5




DETAIL L 1
SCALE = 1:2.5

NOTES: 1 Original Note 3 deleted.

1. V-Groove pattern is similar for all Plates
2. For deck plate plan see "DECK PLATE DETAILS NO 1" sheet.
3. In Section P-P, Y may vary from 10 mm (min) to 20 mm (max).
4. Traction stubs to be machined.
5. For td value see "CROSS SECTION" sheet.




SECTION Y-Y 1
NO SCALE

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| | BY | CHECKED |
|---|---|---|
| DESIGN | E DELIS | A KARTOUM |
| DETAILS | A R DUDSAK | A KARTOUM |
| QUANTITIES | E DELIS | A KARTOUM |

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

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES: 1/24/06 5/18/06 10/30/06

SHEET 451R1 OF

STRUCTURES DESIGN DETAIL SHEET (METRIC) (REV.03-17-04)

SAN FRANCISCO OAKLAND BAY BRIDGE
EAST SPAN SEISMIC SAFETY PROJECT
SELF-ANCHORED SUSPENSION BRIDGE (SUPERSTRUCTURE & TOWER)
SEISMIC JOINT (HINGE A)
DECK PLATE DETAILS NO 2

USERNAME => tdudsak DATE PLOTTED => 31-OCT-2006 TIME PLOTTED => 08:09

| DIST | COUNTY | ROUTE | KILOMETER POST TOTAL PROJECT | SHEET No | TOTAL SHEETS |
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| 04 | SF | 80 | 13.2/13.9 | 869R1 | 1204 |

REGISTERED CIVIL ENGINEER DATE

09/15/2006
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — EFTHYMIOS DELIS — No. 51434 — Exp. 6-30-08 — CIVIL — STATE OF CALIFORNIA

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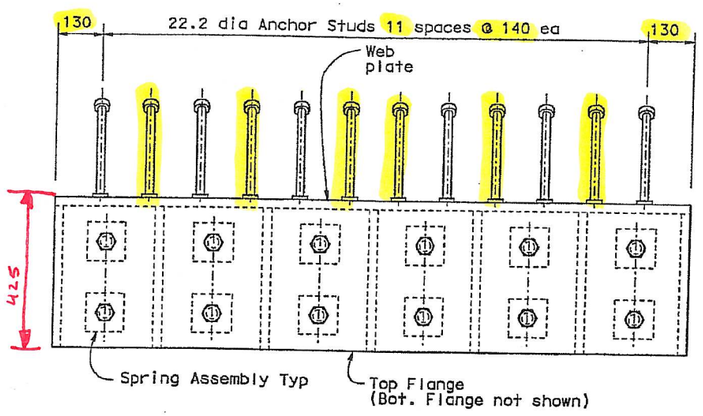
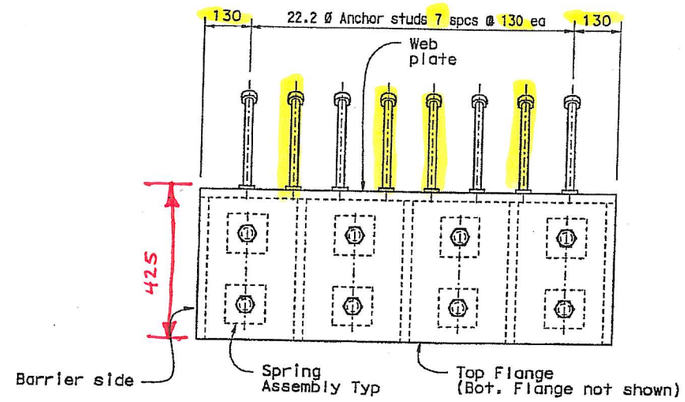



PLAN - BUILT UP CHANNEL ASSEMBLY "B" (TYP) 1

NO SCALE

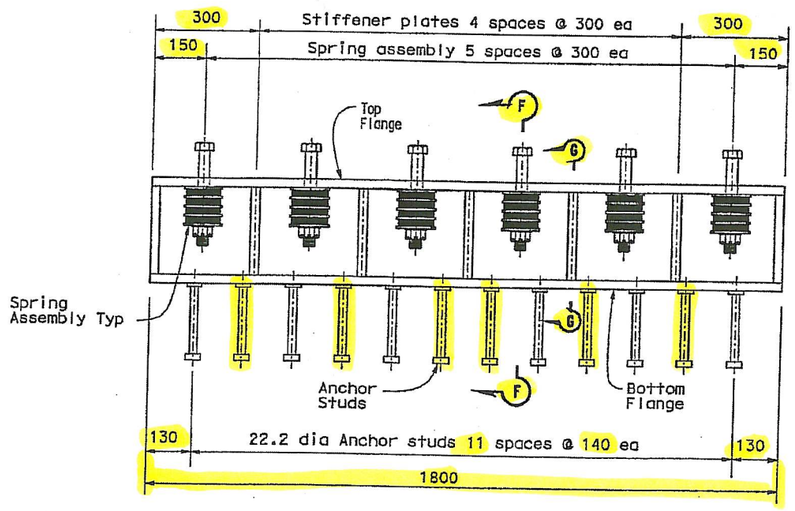



PLAN - BUILT UP CHANNEL ASSEMBLY "A" (TYP) 1

NO SCALE

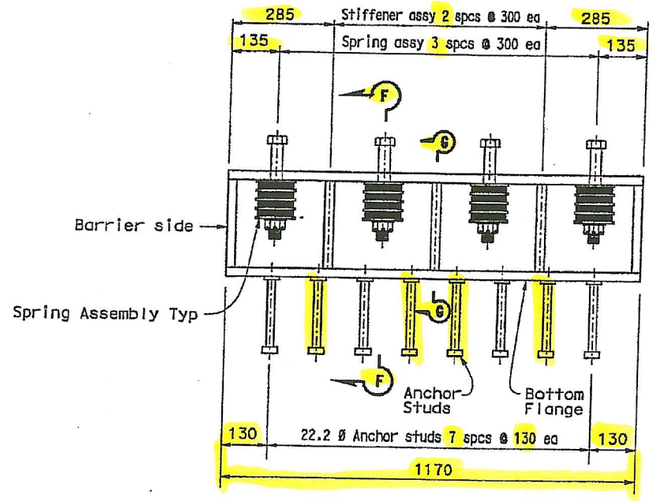
NOTE:

For SECTIONS F-F and G-G See "CHANNEL ASSEMBLY DETAILS NO. 2" sheet




ELEVATION - BUILT UP CHANNEL ASSEMBLY "B" (TYP) 1

NO SCALE




ELEVATION - BUILT UP CHANNEL ASSEMBLY "A" (TYP) 1

NO SCALE

| MARK | DATE | DESCRIPTIONS | BY | CH'D |
|---|---|---|---|---|
| 1 | 9/15/06 | Channel improvements | TD | AK |
| | | REVISIONS | | |

CONTRACT CHANGE ORDER NO. 25
SHEET ___ OF ___

THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

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

DISREGARD PRINTS BEARING EARLIER REVISION DATES → 1/24/06 8/18/06 10/30/06

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

SEISMIC JOINT (HINGE A)

CHANNEL ASSEMBLY DETAILS NO 1

SHEET 452R1 OF

STRUCTURES DESIGN DETAIL SHEET (METRIC) (REV.03-17-04)

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| DIST | COUNTY | ROUTE | KILOMETER POST TOTAL PROJECT | SHEET No | TOTAL SHEETS |
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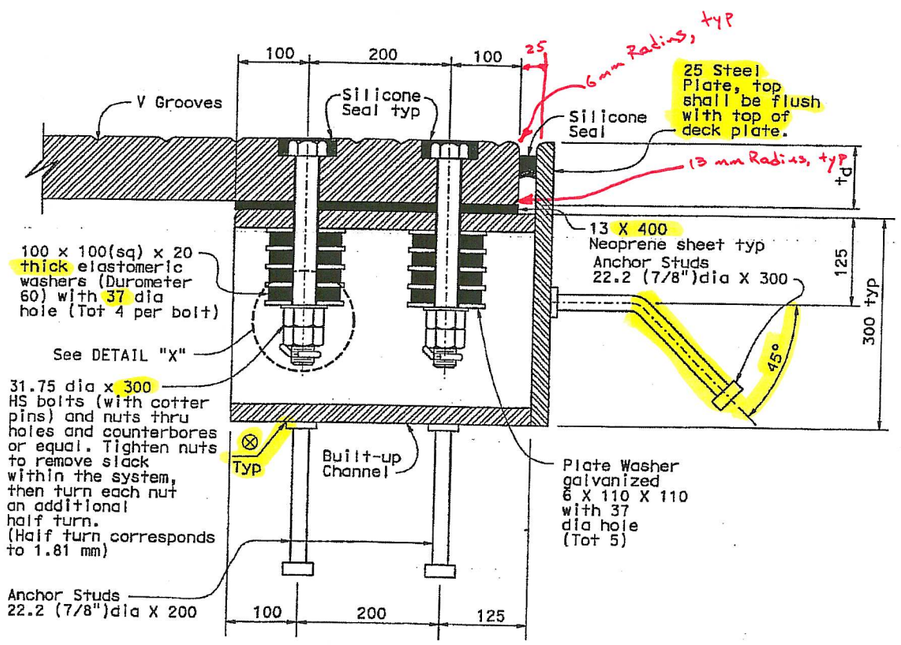
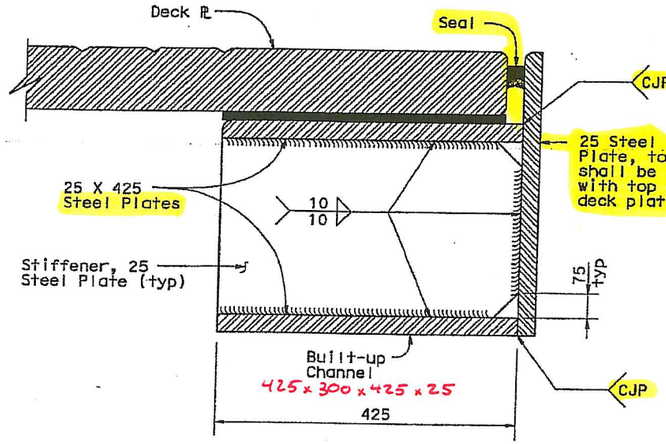
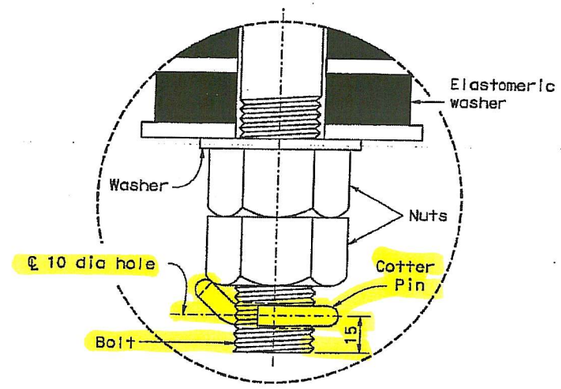



SECTION F-F 1
NO SCALE




SECTION G-G 1
NO SCALE




DETAIL X 1
NO SCALE

NOTE:

1. For td value see "CROSS SECTION" sheet.

| MARK | DATE | DESCRIPTIONS | BY | CH'D |
|---|---|---|---|---|
| 1 | 9/15/06 | Channel improvements | TD | AK |
| | | REVISIONS | | |

CONTRACT CHANGE ORDER NO. 25
SHEET ___ OF ___

THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

Caltrans Metric

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

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

| | BY | CHECKED |
|---|---|---|
| DESIGN | E DELIS | A KARTOUM |
| DETAILS | A R DUDSAK | A KARTOUM |
| QUANTITIES | E DELIS | A KARTOUM |

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
SPECIAL DESIGNS BRANCH

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

SAN FRANCISCO OAKLAND BAY BRIDGE
EAST SPAN SEISMIC SAFETY PROJECT
SELF-ANCHORED SUSPENSION BRIDGE (SUPERSTRUCTURE & TOWER)
SEISMIC JOINT (HINGE A)
CHANNEL ASSEMBLY DETAILS NO 2

CU 04
EA 0120F1

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES: 1/24/06 | 9/15/06 | 10/30/06

SHEET 453R1 OF

FILE => spec_des_br_proj/04-0120F1/zak|sb08.dgn

STRUCTURES DESIGN DETAIL SHEET (METRIC) (REV.03-17-04)

USERNAME => tdudsak DATE PLOTTED => 31-OCT-2006 TIME PLOTTED => 08:29

| DIST | COUNTY | ROUTE | KILOMETER POST TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | SF | 80 | 13.2/13.9 | 871R1 | 1204 |

REGISTERED CIVIL ENGINEER DATE

09-15-2006
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — EFTHYMIOS DELIS — No. 51434 — Exp. 6-30-08 — CIVIL — STATE OF CALIFORNIA

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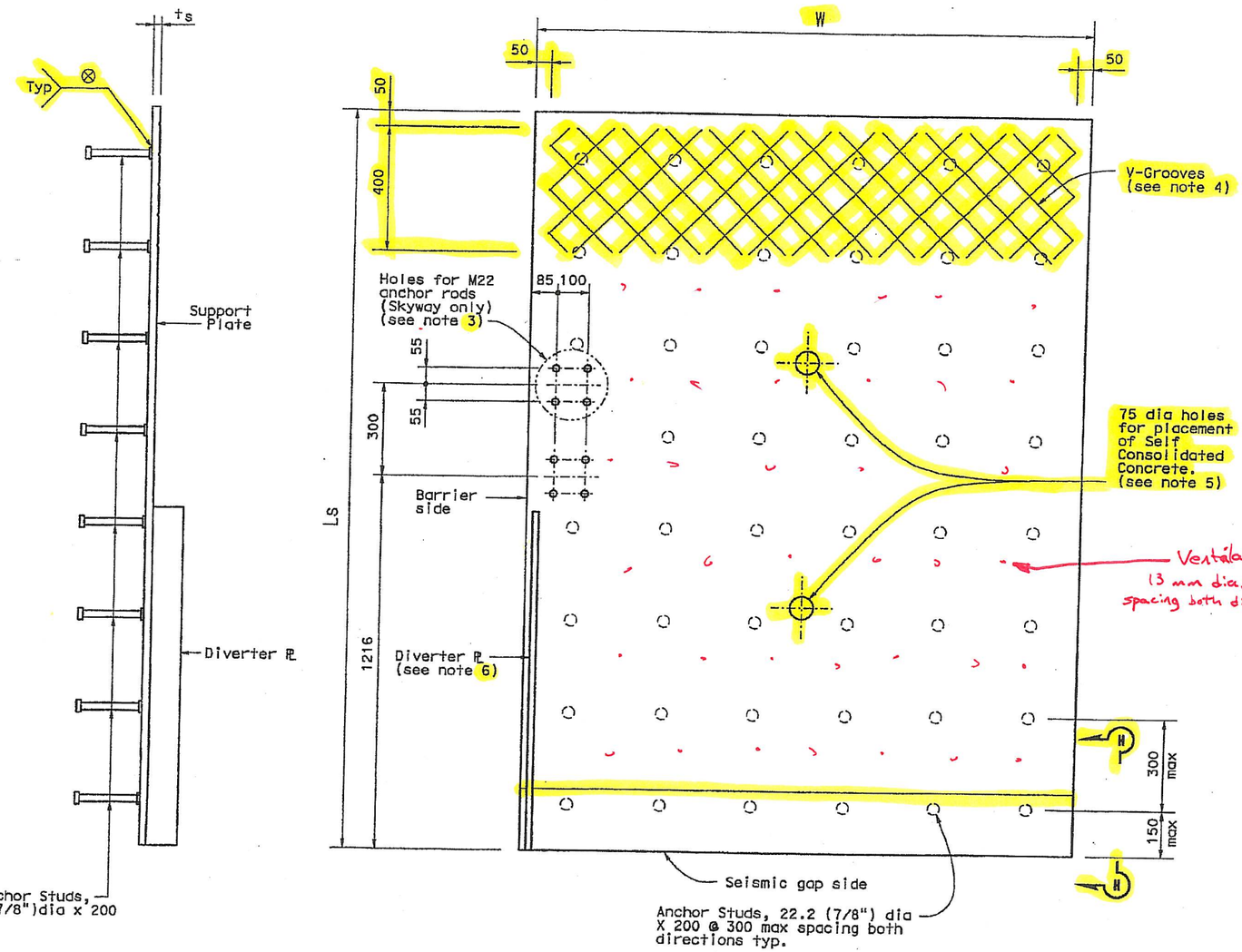
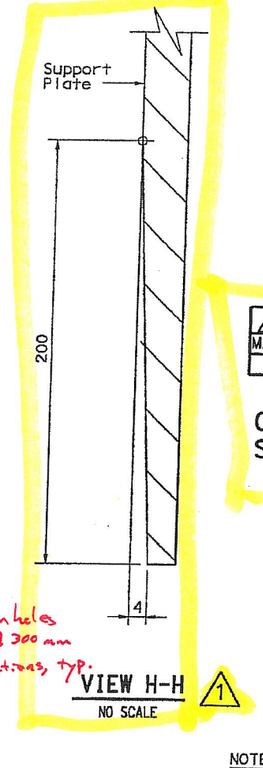



SIDE VIEW
NO SCALE

PLAN VIEW
NO SCALE




VIEW H-H
NO SCALE

SUPPORT PLATE DETAILS

| MARK | DATE | REVISIONS | BY | CH'D |
|---|---|---|---|---|
| 1 | 9/15/06 | Support PL improvements | TD | AK |

CONTRACT CHANGE ORDER NO. 25
SHEET ___ OF ___

| SUPPORT PLATE WIDTH |
|---|
| MODULE A; W = 1170 |
| MODULE B; W = ±1800 |
| MODULE C; L = ±3240 |

NOTES:

1. For Ls and ts values see "CROSS SECTION" sheet.
2. Support Plate A shown, Support Plate B similar.
3. Install anchor rod holes in support plate Module A at barrier side only of Self-Anchored Suspension Bridge and Skyway Structure as indicated. Coordinate anchor rod holes to align with those in the barrier.
4. For V-Groove details see "DECK PLATE DETAILS NO 2" sheet.
5. Exact location of 75 dia holes to be determined prior to support plate fabrication.
6. For diverter plate details see "DECK PLATE DETAILS NO 2" sheet.
7. The area of the support plate with V-Grooves is to receive a nonskid surface in accordance with the Special Provisions. Nonskid surface area extends for the full width of the plate and for 450 mm at the end of plate. Nonskid surface in this region is to consist of epoxy only without grit.

1 Original notes 3 and 4 deleted.

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| | BY | CHECKED |
|---|---|---|
| DESIGN | E DELIS | A KARTOUM |
| DETAILS | A R DUDSAK | A KARTOUM |
| QUANTITIES | E DELIS | A KARTOUM |

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
SPECIAL DESIGNS BRANCH

CU 04
EA 0120F1

FILE => spec_des_br_proj/04-0120F1/zakiab07.dgn

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

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES: 1/24/06 | 8/18/06 | 10/30/06

SHEET 454R1 OF

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

SEISMIC JOINT (HINGE A)
SUPPORT PLATE DETAILS

STRUCTURES DESIGN DETAIL SHEET (METRIC) (REV.03-17-04)

USERNAME => tdudsak DATE PLOTTED => 31-OCT-2006 TIME PLOTTED => 08:11

| DIST | COUNTY | ROUTE | KILOMETER POST TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | SF | 80 | 13.2/13.9 | 872R1 | 1204 |

REGISTERED CIVIL ENGINEER DATE

09-15-2006
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — EFTHYMIOS DELIS — No. 51434 — Exp. 6-30-08 — CIVIL — STATE OF CALIFORNIA

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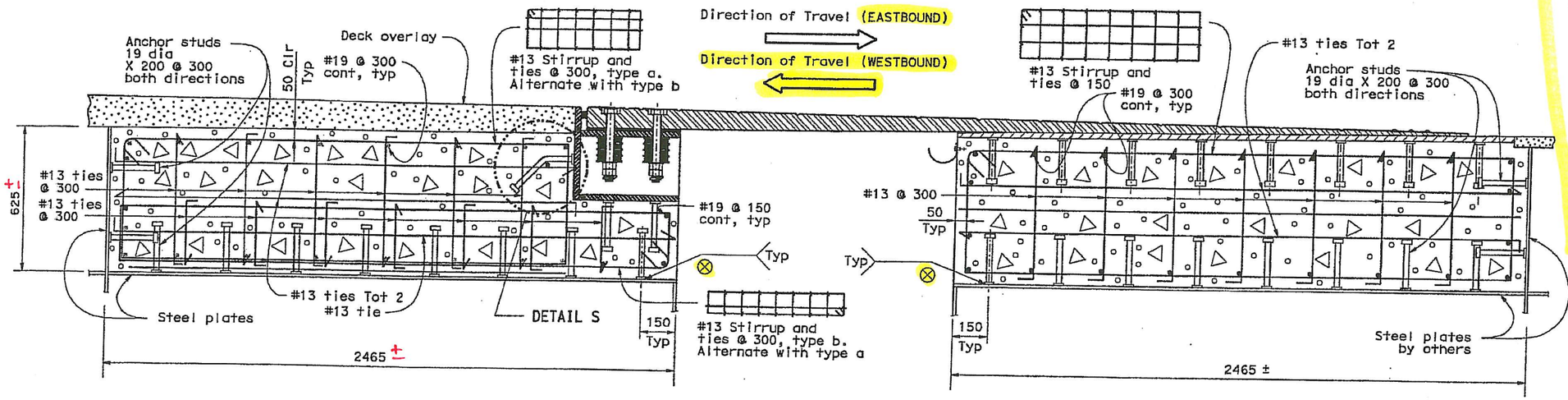
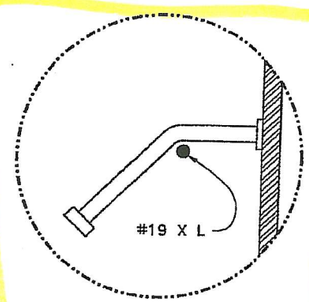
Eastbound and Westbound Elevation Views have been combined into one.




SAS SIDE

SKYWAY SIDE

ELEVATION 1
SCALE 1:10




DETAIL S 1

L= 1170 Module A
1800 Module B

| MARK | DATE | DESCRIPTIONS | BY | CH'D |
|---|---|---|---|---|
| 1 | 9/15/06 | Block out details | TD | AK |
| | | REVISIONS | | |

CONTRACT CHANGE ORDER NO. 25
SHEET ___ OF ___

THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

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

| | BY | CHECKED |
|---|---|---|
| DESIGN | E DELIS | A KARTOUM |
| DETAILS | A R DUDSAK | A KARTOUM |
| QUANTITIES | E DELIS | A KARTOUM |

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SPECIAL DESIGNS BRANCH

CU 04
EA 0120F1

FILE => spec_des_br_proj/04-0120F1/zak/sb08.dgn

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

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES: 1/24/06 8/18/06 10/30/06

SHEET 455R1 OF

SAN FRANCISCO OAKLAND BAY BRIDGE
EAST SPAN SEISMIC SAFETY PROJECT
SELF-ANCHORED SUSPENSION BRIDGE (SUPERSTRUCTURE & TOWER)
SEISMIC JOINT (HINGE A)
REINFORCEMENT DETAILS

STRUCTURES DESIGN DETAIL SHEET (METRIC) (REV.03-17-04)

USERNAME => tdudsak DATE PLOTTED => 31-OCT-2006 TIME PLOTTED => 08:11

| DIST | COUNTY | ROUTE | KILOMETER POST TOTAL PROJECT | SHEET NO | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | SF | 80 | 13.2/13.9 | 872S1 | 1204 |

REGISTERED CIVIL ENGINEER DATE

09/15/2006
PLANS APPROVAL DATE

EFTHYMIOS DELIS No. 51434 Exp. 6-30-08 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

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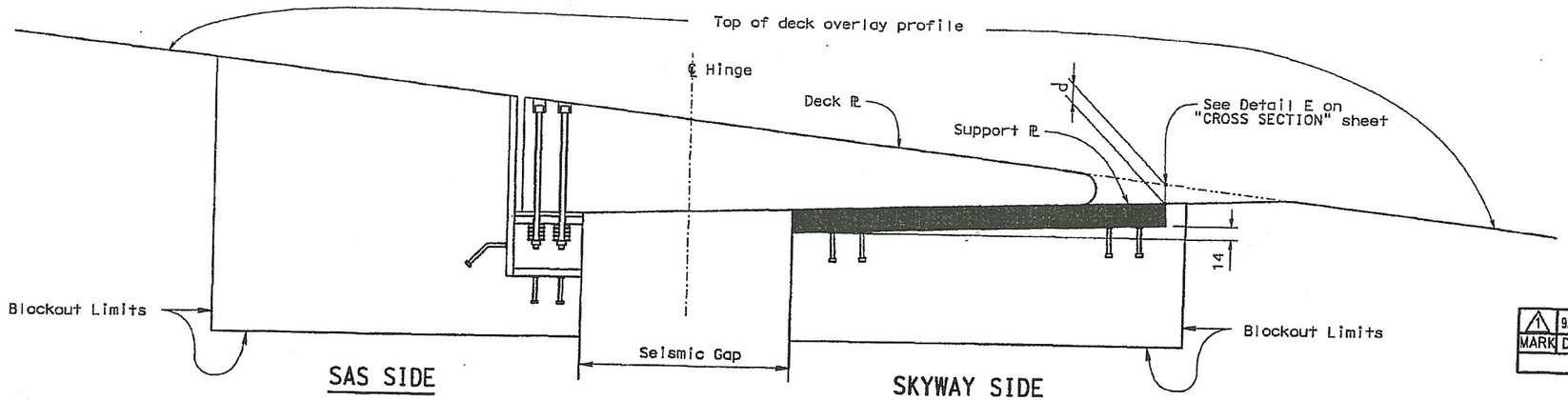
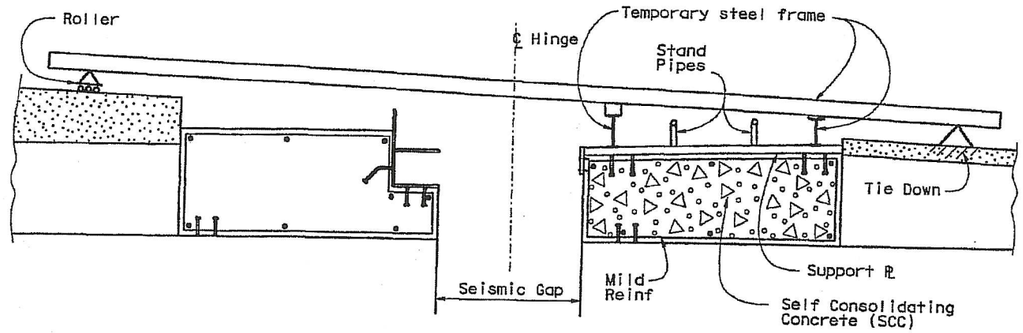



## INSTALLATION DETAIL

NO SCALE

| MARK | DATE | DESCRIPTIONS | BY | CH'D |
|---|---|---|---|---|
| 1 | 9/15/06 | Construction sequence | TD | AK |
| | | REVISIONS | | |

CONTRACT CHANGE ORDER NO. 25
SHEET ___ OF ___



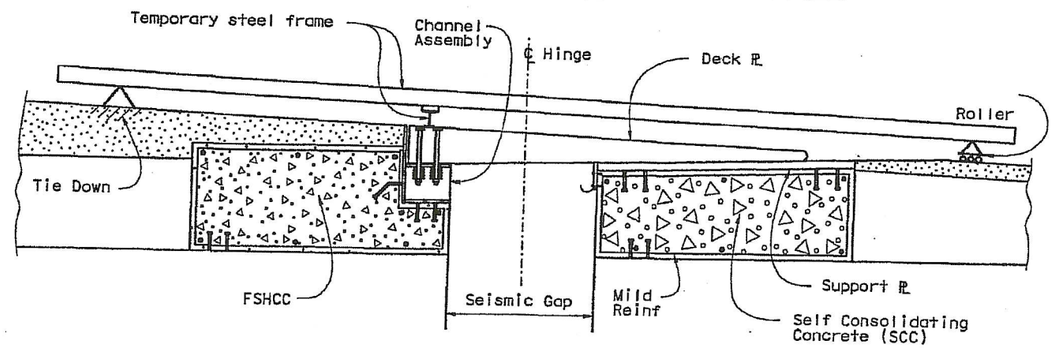

### STEP 1

NO SCALE

- Place anchor studs and mild reinforcement in blockout areas.
- Install temporary steel frame.
- For each joint module, place support plate at elevations and locations shown on plans.
- Align all joint modules together and secure them.
- Pour self consolidating concrete (SCC) below support plate.
- Let SCC set and reach 14 MPa strength min.
- Remove stand pipes and clean top surface of support plates.

## SCHEMATIC CONSTRUCTION SEQUENCE 1

NO SCALE




### STEP 2

NO SCALE

- Steel frame supports are changed so frame is tied down on channel assembly side and is free to move on support plate side.
- For each joint module, place channel assembly and deck plate at elevations and locations shown on plans. Channel assembly sits suspended from steel frame. Deck plate sits on support plate and channel assembly. Make adjustments so full bearing between deck and support plates is achieved.
- Align all joint modules together and secure them.
- Pour Fast Setting Hydraulic Cement Concrete (FSHCC) in the channel assembly blockout area.
- Let FSHCC set for at least 3 hours minimum.
- Tighten bolts and place cotter pins.
- Install gutter.
- Place deck overlay.
- Seal joint with silicone seal.

NOTES:

1. Not all reinforcement and joint details are shown for clarity.

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| QUANTITIES | E DELIS | A KARTOUM |

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SPECIAL DESIGNS BRANCH

CU 04
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FILE => spec_des_br_proj/04-0120F1/zakisb09.dgn

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

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES: 1/24/06 | 8/28/06 | 10/30/06

SHEET 455S1 OF

STRUCTURES DESIGN DETAIL SHEET (METRIC) (REV.03-17-04)

SAN FRANCISCO OAKLAND BAY BRIDGE
EAST SPAN SEISMIC SAFETY PROJECT

SELF-ANCHORED SUSPENSION BRIDGE
(SUPERSTRUCTURE & TOWER)

SEISMIC JOINT (HINGE A)

CONSTRUCTION SEQUENCE

USERNAME => *TOUDSOK DATE PLOTTED => 31-OCT-2006 TIME PLOTTED => 08:12