| DIST. | COUNTY | ROUTE | KILOMETER POST TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | SF | 80 | 13.2/13.9 | 473R3 | 1204 |

Caltrans Metric

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

*The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.*

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

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

## W2 CAP BEAM CONTINUITY TENDON TABLE-1 FOR "E" LINE

| Tendon No. | Type | Tendon No. | Type |
|---|---|---|---|
| 1A | 1 | 24A | 1 |
| 1B | 2 | 24B | 2 |
| 2A | 1 | 25A | 1 |
| 2B | 5 | 25B | 2 |
| 3A | 1 | 26A | 1 |
| 3B | 5 | 26B | 2 |
| 4A | 1 | 27A | 1 |
| 4B | 5 | 27B | 2 |
| 5A | 1 | 28A | 1 |
| 5B | 2 | 28B | 2 |
| 6A | 1 | 29A | 3 |
| 6B | 5 | 29B | 2 |
| 7A | 1 | 30A | 3 |
| 1 7B | 5 | 30B | 5,9 |
| 8A | 1 | 31A | 3 |
| 8B | 2 | 31B | 5 |
| 9A | 1 | 32A | 1 |
| 9B | 2 | 32B | 5 |
| 10A | 1 | 33A | 1 |
| 10B | 2 | 33B | 5 |
| 11A | 1 | 34A | 1 |
| 11B | 2 | 34B | 2 |
| 12A | 1 | 35A | 1 |
| 12B | 2 | 35B | 2 |
| 13A | 1 | 36A | 1 |
| 13B | 2 | 36B | 5 |
| 14A | 1 | 37A | 1 |
| 14B | 2 | 37B | 5 |
| 15A | 1 | 38A | 1 |
| 15B | 8 1 | 38B | 2 |
| 16A | 1 | 39A | 1 |
| 16B | 8 1 | 39B | 5 |
| 17A | 1 | 40A | 1 |
| 17B | 2 | 40B | 5 |
| 18A | 1 | 41A | 1 |
| 18B | 10 1 | 41B | 5 |
| 19A | 1 | 42A | 1 |
| 19B | 4 | 42B | 2 |
| 20A | 1 | 43 | 2 |
| 20B | 4 | 44 | 2 |
| 21A | 1 | | |
| 21B | 4 | | |
| 22A | 1 | | |
| 22B | 2 | | |
| 23A | 1 | | |
| 23B | 2 | | |

## W2 CAP BEAM CONTINUITY TENDON TABLE-1 FOR "W" LINE

| | Tendon No. | Type | Tendon No. | Type |
|---|---|---|---|---|
| | 1A | 1 | 24A | 1 |
| | 1B | 2 | 24B | 2 |
| | 2A | 1 | 25A | 1 |
| | 2B | 5 | 25B | 2 |
| | 3A | 1 | 26A | 1 |
| 1 | 3B | 5 | 26B | 8 |
| | 4A | 1 | 27A | 1 |
| 1 | 4B | 5 | 27B | 8 |
| | 5A | 1 | 28A | 1 |
| | 5B | 2 | 28B | 2 |
| | 6A | 1 | 29A | 3 |
| | 6B | 5 | 29B | 2 |
| | 7A | 1 | 30A | 3 |
| 1 | 7B | 5 | 30B | 5,9 |
| | 8A | 1 | 31A | 3 |
| | 8B | 2 | 31B | 5 |
| | 9A | 1 | 32A | 1 |
| | 9B | 2 | 32B | 5 |
| | 10A | 1 | 33A | 1 |
| | 10B | 2 | 33B | 5 |
| | 11A | 1 | 34A | 1 |
| | 11B | 2 | 34B | 2 |
| | 12A | 1 | 35A | 1 |
| 3 | 12B | 2 | 35B | 5 |
| | 13A | 1 | 36A | 1 |
| | 13B | 2 | 36B | 5 |
| | 14A | 1 | 37A | 1 |
| | 14B | 2 | 37B | 5 |
| | 15A | 1 | 38A | 1 |
| 2 | 15B | 2 | 38B | 5 |
| | 16A | 1 | 39A | 1 |
| 3 | 16B | 2 | 39B | 5 |
| | 17A | 1 | 40A | 1 |
| | 17B | 2 | 40B | 5 |
| | 18A | 1 | 41A | 1 |
| 2 | 18B | 2 | 41B | 5 |
| | 19A | 1 | 42A | 1 |
| 1 | 19B | 4 | 42B | 6 |
| | 20A | 1 | 43 | 2 |
| 1 | 20B | 4 | 44 | 7 |
| | 21A | 1 | | |
| | 21B | 4,8 | 1 | |
| | 22A | 1 | | |
| | 22B | 4,8 | 1 | |
| | 23A | 1 | | |
| | 23B | 2 | | |

## W2 CAP BEAM CONTINUITY TENDON TABLE-2 FOR "E" LINE

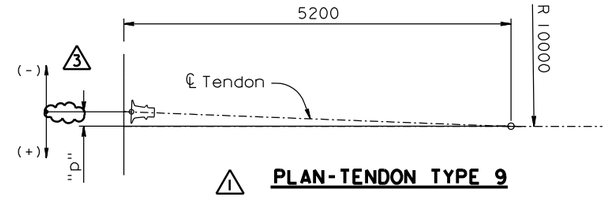
| | Tendon No. | h | L | $e_5$ | R |
|---|---|---|---|---|---|
| | 2B | -40 | 2200 | 500 | 8000 |
| | 3B | +40 | 2200 | 500 | 8000 |
| | 4B | -70 | 2200 | 500 | 8000 |
| | 6B | -40 | 2200 | 500 | 8000 |
| | 7B | +40 | 2200 | 500 | 8000 |
| 1 | 30B | 3 -1300 | 2400 | 1200 | 4000 |
| | 31B | -978 | 2400 | 1200 | 5000 |
| | 32B | -763 | 2400 | 1200 | 4000 |
| 1 | 33B | -470 | 2400 | 1200 | 8000 |
| | 36B | +40 | 2200 | 500 | 8000 |
| | 37B | -40 | 2200 | 500 | 8000 |
| | 39B | -70 | 2200 | 500 | 8000 |
| | 40B | 2 +90 | 2200 | 500 | 8000 |
| | 41B | -90 | 2200 | 500 | 8000 |

| 1 | Tendon No. | p |
|---|---|---|
| | 15B | -50 |
| | 16B | -50 |
| | 30B | +200 |

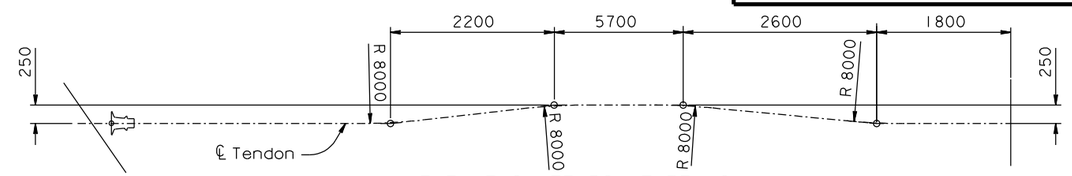
## W2 CAP BEAM CONTINUITY TENDON TABLE-2 FOR "W" LINE

| | Tendon No. | h | L | $e_5$ | R |
|---|---|---|---|---|---|
| | 2B | -40 | 2200 | 500 | 8000 |
| | 3B | +40 | 2200 | 500 | 8000 |
| | 4B | -70 | 2200 | 500 | 8000 |
| | 6B | -40 | 2200 | 500 | 8000 |
| | 7B | +40 | 2200 | 500 | 8000 |
| 1 | 30B | 3 -1375 | -2400 | 1200 | 4000 |
| | 31B | -1053 | 2400 | 1200 | 5000 |
| | 32B | -795 | 2400 | 1200 | 5000 |
| 1 | 33B | -515 | 2400 | 1200 | 8000 |
| | 35B | -40 | 2200 | 500 | 8000 |
| | 36B | +40 | 2200 | 500 | 8000 |
| | 37B | -40 | 2200 | 500 | 8000 |
| | 38B | +65 | 2200 | 500 | 8000 2 |
| | 39B | -130 | 2200 | 500 | 8000 |
| | 40B | +40 | 2200 | 500 | 8000 |
| | 41B | -40 | 2200 | 500 | 8000 |

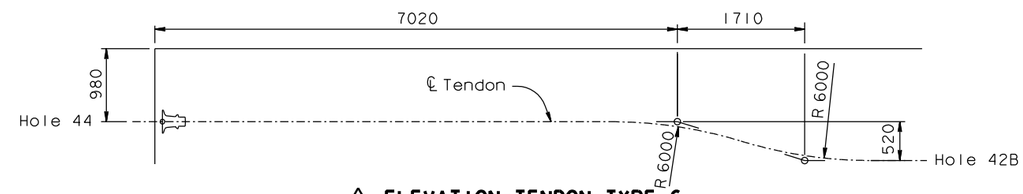
| 1 | Tendon No. | p |
|---|---|---|
| | 21B | +100 |
| | 22B | +100 |
| | 26B | -50 |
| | 27B | -50 |
| | 30B | -200 |
| | 44 | +1200 |



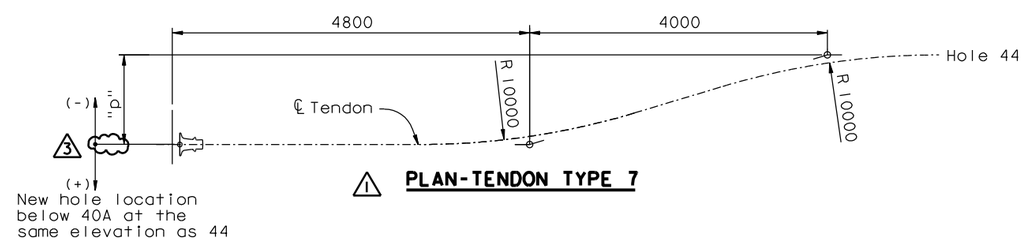

1 **PLAN-TENDON TYPE 9**



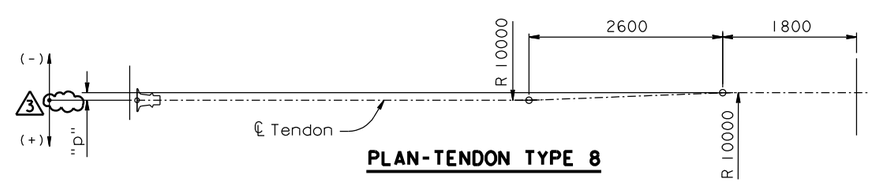

1 **ELEVATION-TENDON TYPE 10**




1 **ELEVATION-TENDON TYPE 6**




1 **PLAN-TENDON TYPE 7**




**PLAN-TENDON TYPE 8** 1

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

FOR REVISIONS ONLY

NOTES:

1. For Type 1 through Type 5 tendon geometry, see "W2 Cap Beam Post-Tensioning Details No.11" sheet.
2. For general stressing sequence, see "Pier W2 Construction Sequence" sheet.
3. For additional prestressing details, see "Prestressing Notes" sheet.

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

| MARK | DATE | DESCRIPTIONS | BY | CH'D | CCO# |
|---|---|---|---|---|---|
| 3 | 02/16/07 | W2 CAP BEAM ISD RESOLUTION | JD | AS | 34 |
| 2 | 01/31/07 | CORROSION PROTECTION | JD | AS | 16 |
| 1 | 07/21/06 | W2 CAP BEAM ISD | JD | NV | 23 |

REVISIONS

CONTRACT CHANGE ORDER NO. ____
SHEET ___ OF ___

100 % PS&E

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

# W2 CAP BEAM POST-TENSIONING DETAILS NO. 12

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
Ryan Valizadeh / Vong P. Toan / Y. Lu
SIGN OFF DATE 02/18/07

| | 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 056R3 OF

FILE => I:\bb\04-012001\sas\contract plans and cco\cco\in progress\cco#34\aecpt12.dgn

USERNAME => olishansky DATE PLOTTED => 16 MAR 2007 TIME PLOTTED => 07:54:21