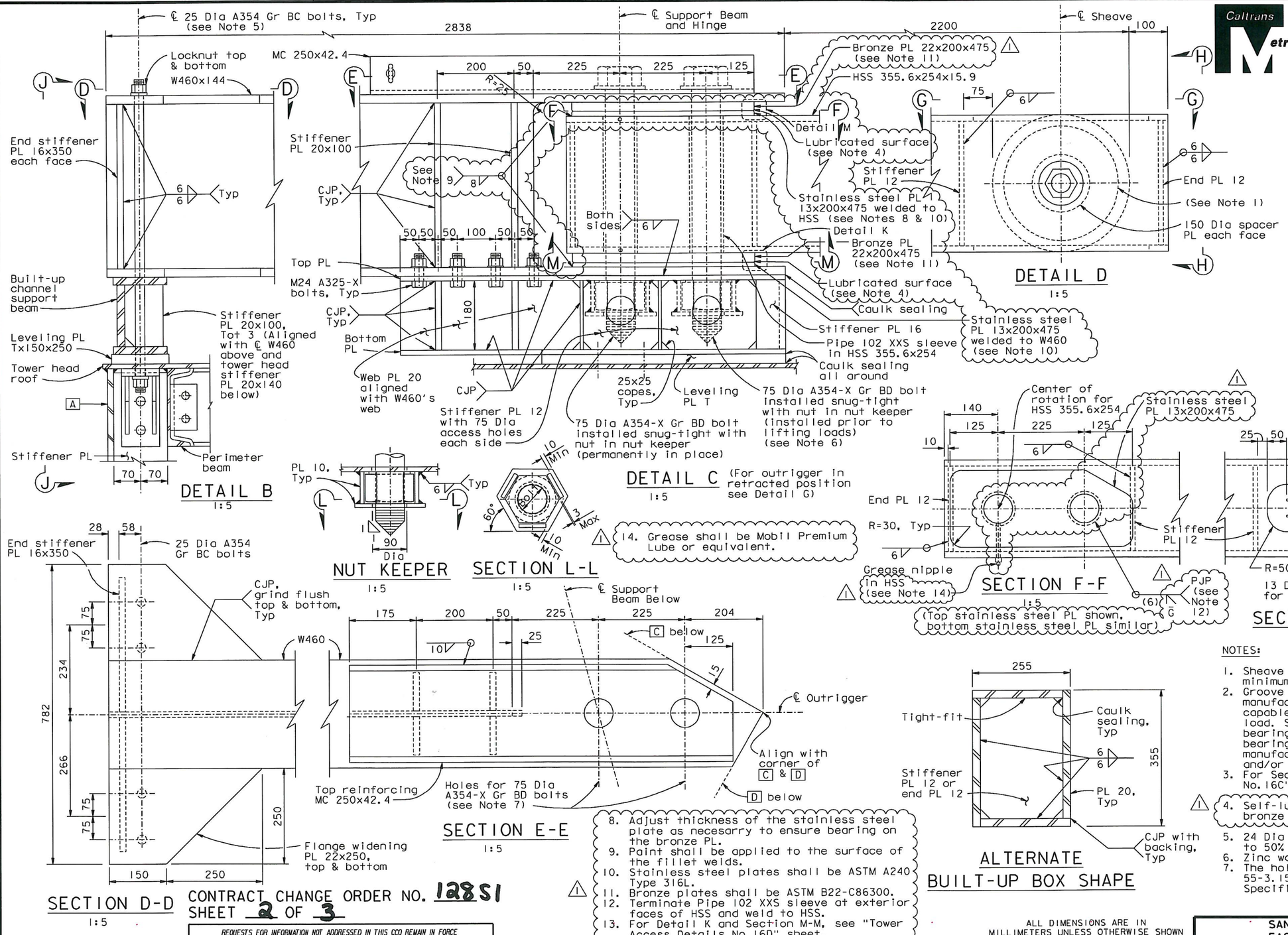

14. Grease shall be Mobil Premium Lube or equivalent.

8. Adjust thickness of the stainless steel plate as necesarry to ensure bearing on the bronze PL.
9. Paint shall be applied to the surface of the fillet welds.
10. Stainless steel plates shall be ASTM A240 Type 316L.
11. Bronze plates shall be ASTM B22-C86300.
12. Terminate Pipe 102 XXS sleeve at exterior faces of HSS and weld to HSS.
13. For Detail K and Section M-M, see "Tower Access Details No.16D" sheet.

NOTES:

1. Sheave shall be min 350 mm Dia with a minimum unfactored service load of 75 kN.
2. Groove width shall be determined by manufacturer to accommodate the wire line capable of lifting the unfactored service load. Sheave shall be supplied with a roller bearing, a tapered roller bearing or a roller bearing with thrust washer. The sheave manufacturers shall provide the fasteners and/or pin for the sheave.
3. For Section J-J, see "Tower Access Details No.16C" sheet.
4. Self-lubricated lubricant shall be applied to bronze plate.
5. 24 Dia A354 Gr BC bolts shall be pretensioned to 50% of their ultimate tensile strength.
6. Zinc wax or grease threaded components.
7. The hole size shall confirm with Section 55-3.15 "Pin Connections" of the Standard Specifications.

CONTRACT CHANGE ORDER NO. 128S1
SHEET 2 OF 3

REQUESTS FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE

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	932S2R1	1204

REGISTERED ENGINEER - CIVIL
10-30-09
PLANS APPROVAL DATE
Marwan N. Nader, No. C 054426, Exp. 12/31/11, 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.

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825 BATTERY STREET
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MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
1	06/14/11	TOWER BOOM BEARINGS	CC	MN	128S1
0	10/30/09	TOWER MAINTENANCE ENHANCEMENTS	JC	MN	128

REVISIONS

	BY	CHECKED
DESIGN	J. Chan	M. Nader
DETAILS	G. Mok	C. Choi
QUANTITIES	M. Neal	J. Wu

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)

TOWER ACCESS DETAILS NO. 16B

R. Vallizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 06/14/11

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) 10/30/09

SHEET 51S52R1 OF

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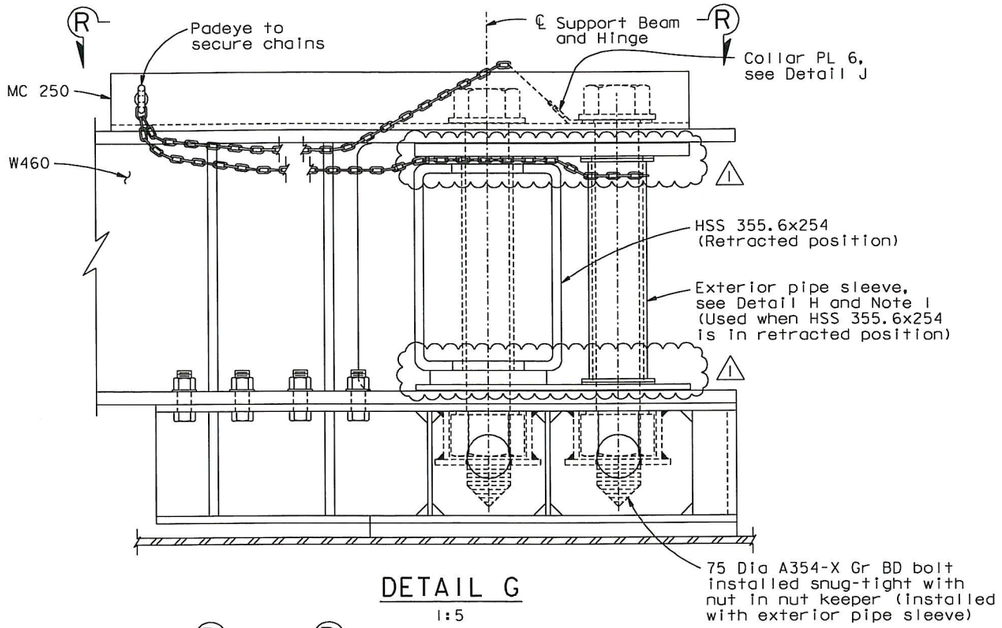
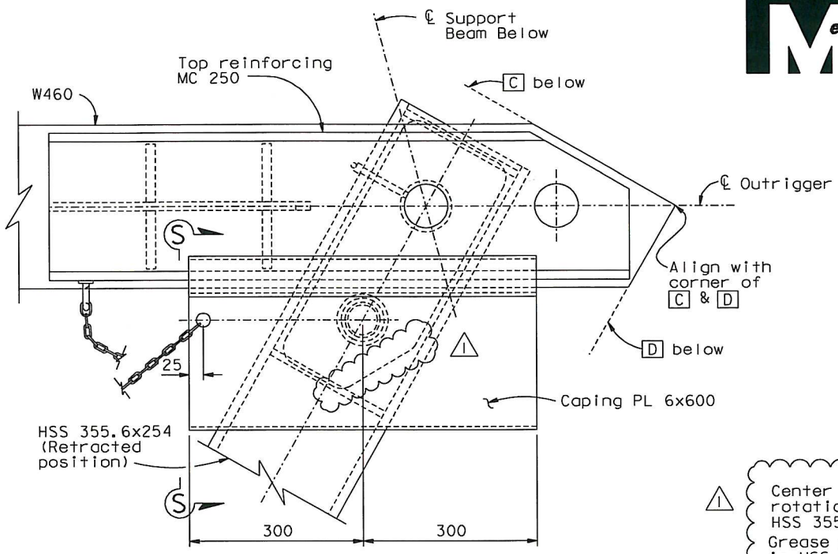
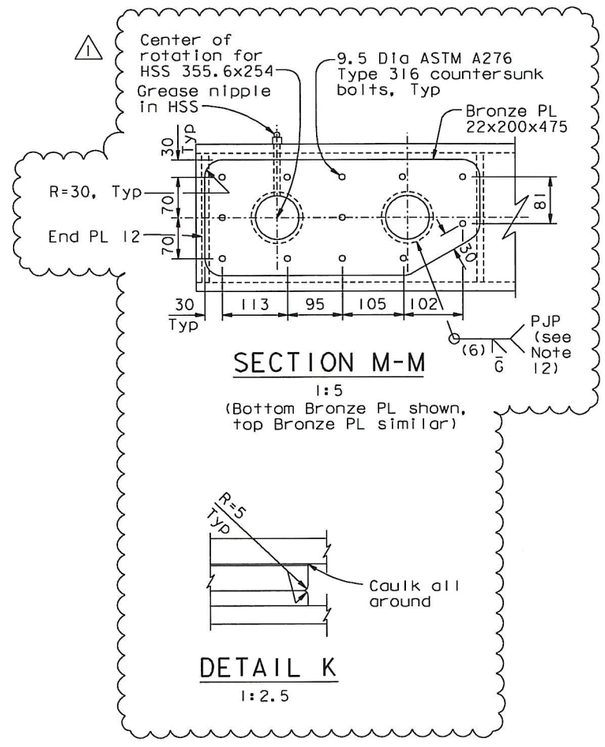


DETAIL G
1:5

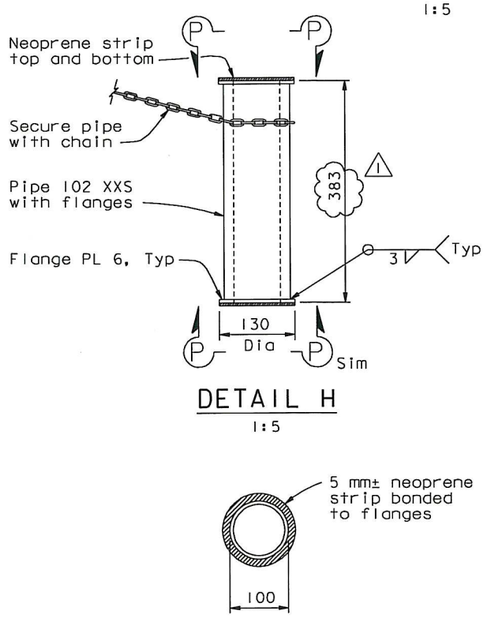


SECTION R-R
1:5

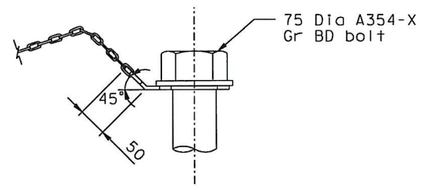


SECTION M-M
1:5
(Bottom Bronze PL shown, top Bronze PL similar)

DETAIL K
1:2.5

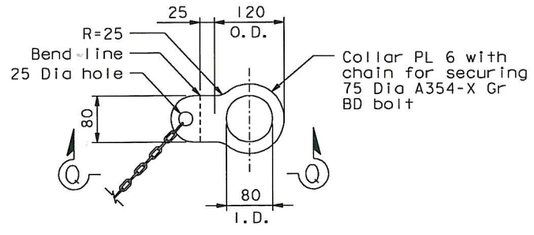


DETAIL H
1:5

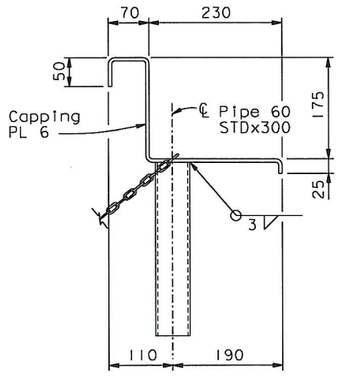


SECTION Q-Q
1:5

SECTION P-P
1:5



DETAIL J
1:5



SECTION S-S
1:5

NOTES:

1. The exterior pipe sleeve shall be placed to bear on the flanges of W460. Adjust thickness of neoprene strips as needed.

CONTRACT CHANGE ORDER NO. 128 S1
SHEET 3 OF 3

REQUESTS FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE

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MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
1	06/14/11	TOWER BOOM BEARINGS	CC	MN	128S1
0	10/30/09	TOWER MAINTENANCE ENHANCEMENTS	JC	MN	128

REVISIONS

R. Vallzadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 06/14/11

Rev. Date: 5-18-98

DESIGN	BY J. Chan	CHECKED M. Nader	
DETAILS	BY G. Mok	CHECKED C. Choi	
QUANTITIES	BY M. Neal	CHECKED R. Boundouki	

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 → 10/30/09

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

TOWER ACCESS DETAILS NO. 16D

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET 515S4R1 OF

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DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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REGISTERED ENGINEER - CIVIL
10-30-09
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Marwan N. Nader
No. C 054426
Exp. 12/31/11
CIVIL
STATE OF CALIFORNIA

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