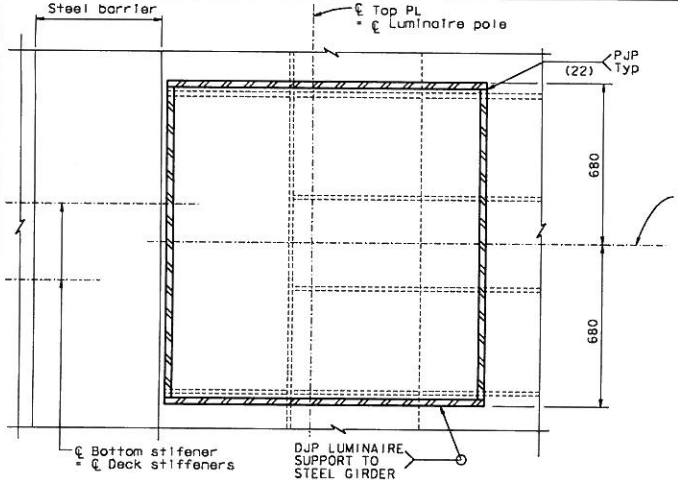
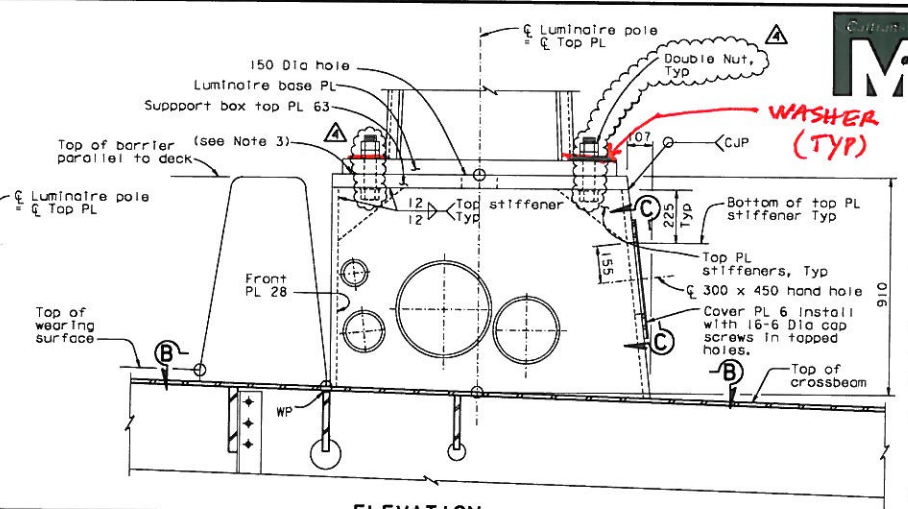


SECTION B-B
1:10

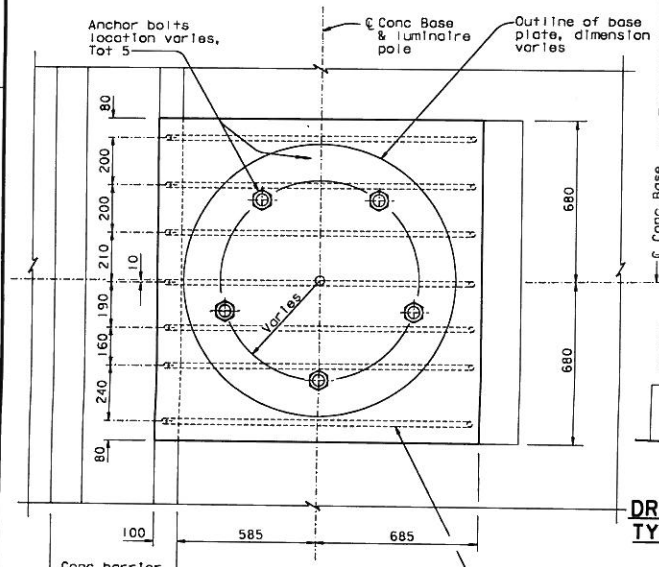


ELEVATION (OVER CROSSBEAM, WB shown, EB similar) (See Note 9)
WELDED LUMINAIRE SUPPORT BOX
1:10

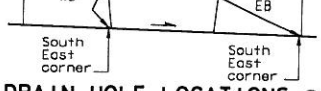
MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
		REVISIONS			
4	10/31/08	BARRIER MODIFICATIONS	TH	JD	44
3	05/15/08	BARRIER MODIFICATIONS	TH	JD	44
2	03/24/08	BARRIER MODIFICATIONS	TH	JD	44
1	02/21/08	W2 CAP BEAM ISD	JD	NV	23

REQUESTS FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE

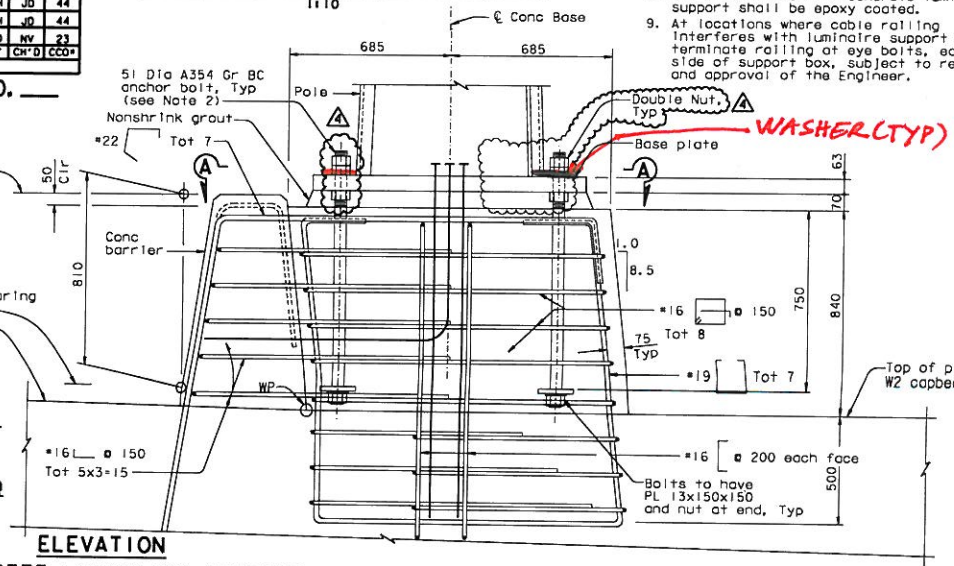
CONTRACT CHANGE ORDER NO. ___
SHEET ___ OF ___



SECTION A-A
1:10



DRAIN HOLE LOCATIONS @ TYPICAL LUMINAIRE AND SIGN SUPPORT BOX
NTS



ELEVATION
CONCRETE LUMINAIRE SUPPORT
1:10

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

NOTES:

1. For dimensions and details not shown, see "Luminaire Support Details No. 1" sheet.
2. Anchor rods at the base PL connection shall be tensioned to 0.5Fy.
3. Surfaces of plates shall be milled level to ensure bearing.
4. For View C-C and Typical Drain Hole Detail, see "Luminaire Support Details No. 1" sheet.
5. The Contractor shall submit for approval by the Engineer details of conduit penetration through deck plate. Conduit penetration details shall be completely sealed to ensure no water leakage into support box.
6. For location of luminaire, see "Road Plans" sheets.
7. For geometry of luminaire base plate, conduit openings and location of bolts, see "Road Plans".
8. All reinforcement in concrete luminaire support shall be epoxy coated.
9. At locations where cable railing interferes with luminaire support box, terminate railing at eye bolts, each side of support box, subject to review and approval of the Engineer.

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	905R4	1204

REGISTERED ENGINEER - CIVIL
12-6-04
PLANS APPROVAL DATE
Tien Hung Ho, No. C 43990, Exp. 06/30/09, CIVIL, STATE OF CALIFORNIA

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825 BATTERY STREET
SAN FRANCISCO, CA 94111

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100 % PS&E

DESIGN OVERSIGHT: R. Vaitzadeh/V. Toan/Y.L./W.L./F.C.
STGN OFF DATE 10/31/08

	BY	CHECKED
DESIGN	T. Ho	C. Redfield
DETAILS	R. Xu	C. Redfield
QUANTITIES	C. Mauch	K. Cormier

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)

LUMINAIRE SUPPORT DETAILS NO. 2

SHEET 488R4

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)

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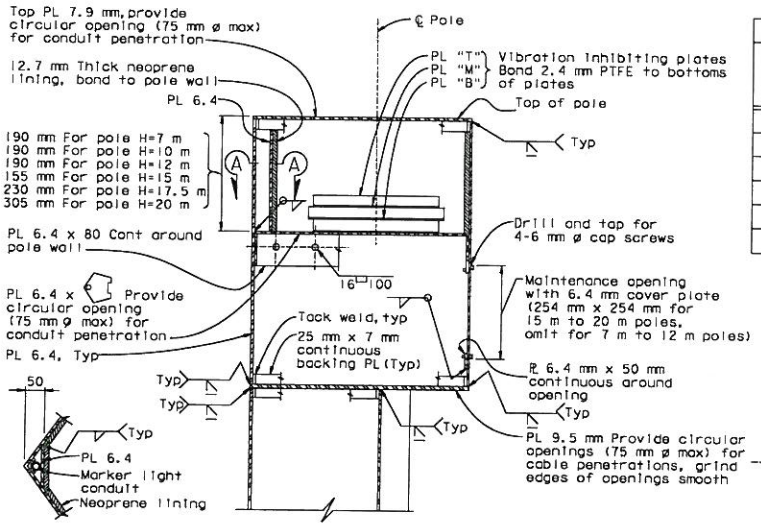
DATE PLOTTED => 31 OCT 2008
TIME PLOTTED => 13:14:50

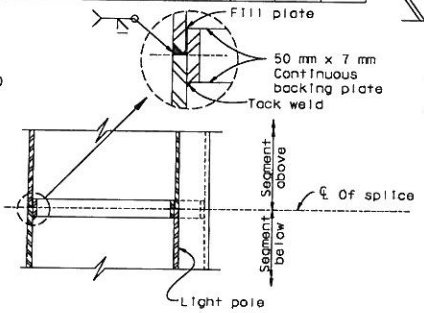


SECTION A-A

DETAIL AT TOP OF POLE

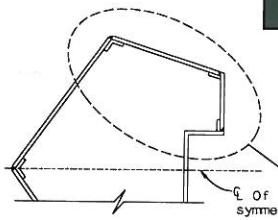
Not to scale

VIBRATION INHIBITING PLATES						
POLE HEIGHT "H"	PLATE "T"		PLATE "M"		PLATE "B"	
	DIAM. (mm)	THICK (mm)	DIAM. (mm)	THICK (mm)	DIAM. (mm)	THICK (mm)
7 m	110	38.1	140	47.6	110	38.1
10 m	140	41.3	180	50.8	140	41.3
12 m	190	31.8	240	41.3	190	31.8
15 m	260	25.4	310	34.9	260	25.4
17.5 m	240	31.8	290	41.3	240	31.8
20 m	300	25.4	350	38.1	300	25.4



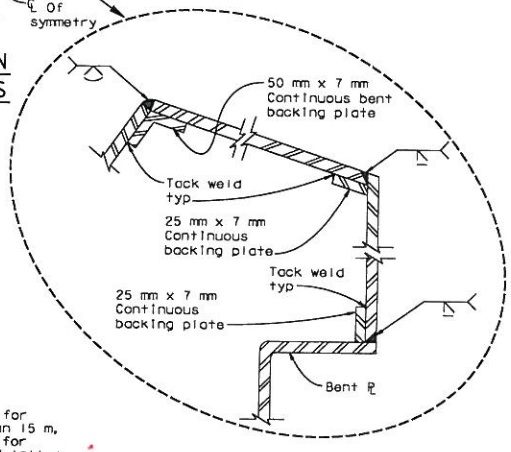
POLE SPLICE

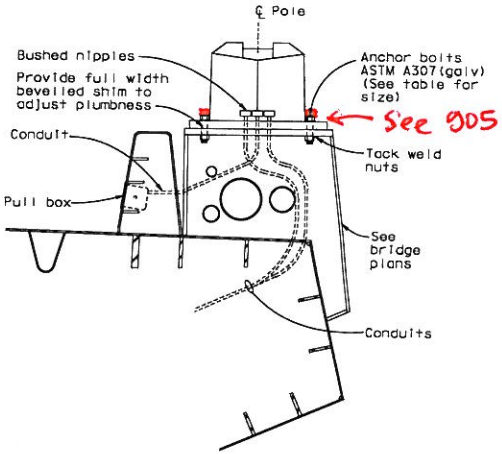
Not to scale



POLE SECTION WELD DETAILS

Not to scale

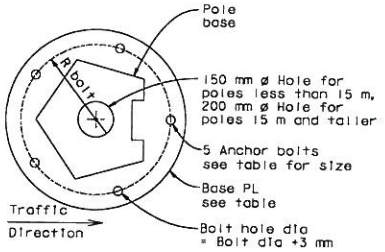




ANCHORAGE DETAIL

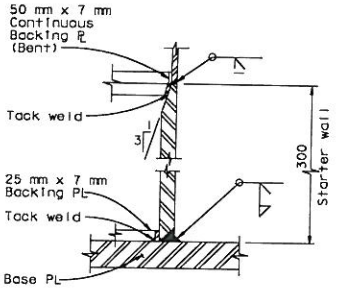
Not to scale

⚠ * * * POLES WILL BE STATE FURNISHED * * *
DETAILS ARE SHOWN IN CONTRACT NO. BATA 007



BASE PLATE

Not to scale



POLE/BASE PLATE CONNECTION

Not to scale

CONTRACT CHANGE ORDER NO. ____
SHEET ___ OF ___

REQUESTS FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE

MARK	DATE	REVISIONS DESCRIPTIONS	BY	CH'D	CCO#
1	04/22/11	STATE FURNISHED LIGHT POLES	JB	TS	4351

POLE HEIGHT "H"	ANCHORAGE		
	ANCHOR BOLT CIRCLE RADIUS= R (mm)	BASE PLATE DIA (mm) x THICKNESS (mm)	ANCHOR BOLTS NUMBER (EA) x DIA (mm)
7 m	240	600 x 38	5-28
10 m	275	700 x 45	5-32
12 m	320	790 x 48	5-38
15 m	360	915 x 48	5-45
17.5 m	380	1015 x 51	5-51
20 m	420	1150 x 60	5-57

Q-70.

DETAILS
SAS SUPERSTRUCTURE ROADWAY WESTBOUND
TYPICAL ROADWAY POLE 3

SCALE AS NOTED

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.

E-86

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	145R1	1204

REGISTERED ENGINEER-CIVIL
12-6-04
PLANS APPROVAL DATE
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T. W. SPARKS No. E16039 Exp. 9-30-11 ELECTRICAL REGISTERED PROFESSIONAL ENGINEER STATE OF CALIFORNIA

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825 BATTERY STREET
SAN FRANCISCO, CA 94111

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
SAS STRUCTURE
DESIGN OVERSIGHT: BOB ZANDIPOUR
CALCULATED/DESIGNED BY: GAM
CHECKED BY: TYL
DATE REVISED: 10/00
REVISED BY: 10/00

FOR REDUCED PLANS ORIGINAL SCALE IN MILLIMETERS 0 20 40 60 80

FILE => I:\sb\04-012001\sas\contract plans and cco\cco\cco*43a\12-update_04-22-11\dgn\40120fuc086.dgn
USERNAME => DWinrow

CU 04251 EA 0120F1

LAST REVISION 04-19-00 DATE PLOTTED => 21 APR 2011 TIME PLOTTED => 11:29:09