STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

ENGINEER'S DAILY REPORT

LAN Engineering Consultant

3/18/2009

REPORT NO. 824 {7-day}{ + 210 Project Work Day}

DATE: March 16, 2009

M T W T F S S (DAY)

NORMAL WORK HOUR: START: 6:00AM STOP: 3:30PM

WEATHER: CLOUDY/ SHOWERS/ SUNNY

LOCATION :

Construction Field Office : 333 Burma Road, Oakland 94607

Working Drawing Campus Office : 375 Burma Road, Oakland 94607

04-SF-80-13.2/13.9
Contract No. 04-0120F4
{SAS Superstructure}

Caltrans Supervisor:
Gary Lai
Senior Bridge Engineer

Office Work:

- **Shop Drawing Status Meeting (Caltrans – Design). - Time 8:30AM**
  - Meeting held to discuss the status of the reviewing of the submittals by the design groups in the Caltrans review cycle. See attachment #1.
- **Team China Penetration update information.**
  - Gina Rizzardo emailed the week's update of the MEP penetrations for the week of 3/ 9-13/2009. See attachment #2.
- **Team China Fabrication Photos.**
  - Received an email from Gina Rizzardo indicating that she had uploaded photos on the FTP site on Friday. See attachment #4.
- **SAS Opportunity Partnering Schedule (OPS) Work.**
  - Received an email from Chris Bausone (ABF) covering the Re-Cap of the meeting that took place last Wednesday. See attachment #3.
  - Sent Michael Stone, Bill Shedd and Chris Bausone a copy of the T1-ET conflict with the Pull Box Platform structure. This was brought up at the OPS Meeting last week. See attachment #5.

Any questions or comments you can reach me at (916) 919-7158. My E-Mail address is Mike.Travis@LANEngineering.com or Michael_Travis@dot.ca.gov

END OF REPORT

0545-1530 @ office / Time sheet total 8 hours regular

Attachments:

1. Priority lists for Shop Drawing Status with PB review status noted.
2. Email from Team China with last week's penetration status.
3. Email from Chris Bausone with OPS Meeting re-cap.
4. Photo from Team China attached to shop drawing sheet.
5. Email with T1-ET / Pull Box platform conflict drawing.

SIGNATURE

Name: Michael F. Travis

TITLE: Electrical Engineer – LAN Engineering

RECD '09 MAR 19 #009130

PB OBG STATUS CHART MARCH 16, 2009

Attachment #1 (1/5)

Ty ok	3/9/2009	Submittal Priority by ABF Requested Due Date	Information Only	Responed / *redline	**Posted	Reviewing	PB color code ID
CT/JV Status	Reference	Subject	Req. Due Date	Resp. Engineer	Discipline	Date Received	Contract Due Date
Ty 4/3	ABF-SUB-000667R04	OBG - Standard Layout Details (L) - LIFT 13W	16-Dec-2008	Alex Schmitt	H	02-Dec-2008	16-Dec-2008
Ty ok	ABF-SUB-000885R00**	OBG - Standard Layout Details (L) - OBW13 Kink - LIFT 13W	23-Dec-2008	Abbas Iranmanesh	H	03-Nov-2008	23-Dec-2008
Tylin 4/3	ABF-SUB-000917R00**	OBG - Deck Plate Sub Assembly (DP) - Plate Type 1, 2, 10, 18 - LIFT 13W	15-Jan-2009	Ajay Sehgal	H	26-Nov-2008	15-Jan-2009
Tylin 4/3	ABF-SUB-000918R00	OBG - Standard Details (X) - LIFT 13W - Longitudinal Bulkhead, Stiffener Plates	15-Jan-2009	Philip He	H	26-Nov-2008	15-Jan-2009
Tylin 4/3	ABF-SUB-000919R00	OBG - Standard Details (RS) - LIFT 13W - Rib Plate Stiffeners	15-Jan-2009	Philip He	H	26-Nov-2008	15-Jan-2009
Tylin 3/20	ABF-SUB-000930R01	OBG - Layout Assembly (L) - LIFT 13W - Floorbeam Details @ PP118 thru PP121	20-Jan-2009	John Lyons	H	06-Jan-2009	30-Jan-2009
Ty ok	ABF-SUB-000923R00	OBG - Shop Assembly (SA) - Splice, Grillage, & Bearing - LIFT 13W	21-Jan-2009	Ajay Sehgal	H	02-Dec-2008	21-Jan-2009
Tylin 4/3	ABF-SUB-000924R00**	OBG - Standards (X) - LIFT 13W	21-Jan-2009	Philip He	H	02-Dec-2008	21-Jan-2009
Ty ok	ABF-SUB-000927R00	OBG - Floorbeam Sub Assembly (FB) - 117.5 thru 119.65 - LIFT 13W	23-Jan-2009	Victor Altamirano	H	04-Dec-2008	23-Jan-2009
Resub prelim 3/13	ABF-SUB-000905R01	OBG - Layout Details (L) - LIFT 13W	28-Jan-2009	Philip He	H	09-Dec-2008	28-Jan-2009
Ty update ok	ABF-SUB-000695R01	Traveler Scaffolds - E2/E3 Bikepath Traveler Structural Plans & Details	30-Jan-2009	Alex Schmitt	H	09-Jan-2009	23-Jan-2009
Ty update ok	ABF-SUB-000751R01	WB Traveler Shop Drawings	30-Jan-2009	Alex Schmitt	H	09-Jan-2009	23-Jan-2009
Ty update ok	ABF-SUB-000928R00	OBG - (RLG, RLTWC) Handrailing on OBG Deck at Crossbeams 4 - 16 and Handrailing	30-Jan-2009	Alex Schmitt	H	11-Dec-2008	30-Jan-2009
Tylin 3/20	ABF-SUB-000930R00	OBG - Layout Details (L) - LIFT 13W	30-Jan-2009	John Lyons	H	11-Dec-2008	30-Jan-2009
grillage issue 1wk	ABF-SUB-000932R00	OBG - K Plate Sub Assembly (KP) - LIFT 13W	30-Jan-2009	Bob Brignano	H	11-Dec-2008	30-Jan-2009
Ty ok - on hold	ABF-SUB-000669R01	OBG - Standard (TR) - Traveler Rail Brackets	10-Feb-2009	Alex Schmitt	H	03-Feb-2009	17-Feb-2009
need seg drawings	ABF-SUB-000939R00	OBG - Standards (X) - LIFT 13W - Longitudinal Shear Plates, Plate Stiffeners	10-Feb-2009	Ajay Sehgal	H	22-Dec-2008	10-Feb-2009
Tylin 4/3	ABF-SUB-000940R00	OBG - Standard Details (SD) - CB 18, Plates, and Floorbeam Details	10-Feb-2009	Abbas Iranmanesh	H	22-Dec-2008	10-Feb-2009
Tylin 4/3	ABF-SUB-000940R01	OBG - Standard Details (SD) - CB 18, Plates, and Floorbeam Details	10-Feb-2009	Abbas Iranmanesh	H	15-Jan-2009	10-Feb-2009
Tylin 4/3	ABF-SUB-000940R02	OBG - Standard Details (SD) - Deck Plate Standard Section	10-Feb-2009	Abbas Iranmanesh	H	21-Jan-2009	10-Feb-2009
Tylin 4/3	ABF-SUB-000942R00	OBG - Standard (RS) - LIFT 13W - WTand Plate Stiffener Details	10-Feb-2009	Bob Brignano	H	22-Dec-2008	10-Feb-2009
Tylin final 3/13 ?	ABF-SUB-000943R00	OBG - Side Plate Sub Assembly (SP) - LIFT 13W - Plate Types 7 & 8	12-Feb-2009	Abbas Iranmanesh	H	24-Dec-2008	12-Feb-2009
Tylin 3/20	ABF-SUB-000944R00	OBG - Bottom Plate Sub Assembly (BP) - LIFT 13W - Plate Types 6, 13, & 14	12-Feb-2009	Tai-Lin Liu	H	24-Dec-2008	12-Feb-2009
Tylin prelim 3/13	ABF-SUB-000945R00	OBG - Vertical Plate Sub Assembly (VP) - LIFT 13W	12-Feb-2009	Tai-Lin Liu	H	24-Dec-2008	12-Feb-2009
Tylin prelim 3/13	ABF-SUB-000948R00	OBG - Plate Sub Assembly (PL) - LIFT 13W - Exterior Plate Details - Bottom Plate Types	12-Feb-2009	Victor Altamirano	H	24-Dec-2008	12-Feb-2009
need seg drawings	ABF-SUB-000950R00	OBG - Standards (RS) - LIFT 13W - Wt and Plate Stiffener Details	12-Feb-2009	Philip He	H	24-Dec-2008	12-Feb-2009
Tylin 4/3	ABF-SUB-000951R00	OBG - Floorbeam Sub Assembly (FB) - LIFT 13W	12-Feb-2009	Ajay Sehgal	H	24-Dec-2008	12-Feb-2009
Tylin 4/3	ABF-SUB-000949R00	OBG - Standards (X) - LIFT 13W - Floorbeam, Stiffener Diaphragm, & Bearing Plates	17-Feb-2009	Tai-Lin Liu	H	30-Dec-2008	18-Feb-2009
Tylin 4/3	ABF-SUB-000667R07	OBG - Layout Assembly (L) - LIFT 13W - Floorbeam Mark Layout Details	19-Feb-2009	Alex Schmitt	H	05-Feb-2009	19-Feb-2009
Tylin 4/3	ABF-SUB-000953R00	OBG - Floorbeam Sub Assembly (FB) - LIFT 13W	25-Feb-2009	Philip He	H	06-Jan-2009	25-Feb-2009
Final fri 3/13	ABF-SUB-000955R00	OBG - Floorbeam Sub Assembly (FB) - LIFT 13W	25-Feb-2009	Bob Brignano	H	06-Jan-2009	25-Feb-2009
Tylin 4/3	ABF-SUB-000957R00	OBG - Standards (X) - LIFT 13W - Floorbeam Details	25-Feb-2009	Bob Brignano	H	06-Jan-2009	25-Feb-2009
Tylin 3/20	ABF-SUB-000959R00	OBG - Floorbeam Sub Assembly (FB) - LIFT 13W	25-Feb-2009	Ajay Sehgal	H	06-Jan-2009	25-Feb-2009
Tylin prelim 3/13	ABF-SUB-000960R00	OBG - Layout Assembly (L) - LIFT 13W - Floorbeam Details	25-Feb-2009	John Lyons	H	06-Jan-2009	25-Feb-2009
Final fri 3/13	ABF-SUB-000963R00	OBG - Miscellaneous (TRFB) - Traveler Rail Field Bolts	26-Feb-2009	Alex Schmitt	H	07-Jan-2009	26-Feb-2009
Tylin 4/3	ABF-SUB-000940R03	OBG - Standard Details (SD) - LIFT 14E - Deck Plate Standard Section	04-Mar-2009	Abbas Iranmanesh	H	18-Feb-2009	04-Mar-2009
Tylin 3/20	ABF-SUB-000965R00	OBG - Standard Layout Assembly (L) - LIFT 13W	06-Mar-2009	John Lyons	H	15-Jan-2009	06-Mar-2009
superceded	~~ABF-SUB-000967R00~~	~~OBG - Standard Details (SD) - Deck Plate - Standard Section~~	~~06-Mar-2009~~	~~Abbas Iranmanesh~~	~~H~~	~~15-Jan-2009~~	~~06-Mar-2009~~
superceded	~~ABF-SUB-000967R01~~	~~OBG - Standard Details (SD) - Deck Plate - Standard Section~~	~~06-Mar-2009~~	~~Abbas Iranmanesh~~	~~H~~	~~21-Jan-2009~~	~~06-Mar-2009~~
Tylin prelim 3/13	ABF-SUB-000967R02	OBG - Standard Details (SD) - Deck Plate - Standard Section	06-Mar-2009	Abbas Iranmanesh	H	10-Feb-2009	06-Mar-2009

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Attachment #1 (2/5)

Ty ok	3/9/2009	Submittal Priority by ABF Requested Due Date	Information Only	Responed / *redline	**Posted	Reviewing	PB color code ID
Tylin prelim 3/13	ABF-SUB-000968R00	OBG - Standard (X) - LIFT 13W - Floorbeam Details	06-Mar-2009	Abbas Iranmanesh	H	15-Jan-2009	06-Mar-2009
Tylin prelim 3/13	ABF-SUB-000969R00	OBG - Standard (RS) - LIFT 13W - Plate Stiffener Details	06-Mar-2009	John Lyons	H	15-Jan-2009	06-Mar-2009
Tylin 3/20	ABF-SUB-000970R00	OBG - Edge Plate Sub Assembly (EP) - LIFT 13W - Plate Types 3, 17	06-Mar-2009	Philip He	H	15-Jan-2009	06-Mar-2009
Tylin prelim 3/13	ABF-SUB-000971R00	OBG - Vertical Plate Sub Assembly (VP) - LIFT 13W	06-Mar-2009	Bob Brignano	H	15-Jan-2009	06-Mar-2009
Tylin prelim 3/13	ABF-SUB-000972R00**	OBG - Longitudinal Diaphragm Assembly (LD) - LIFT 13W	06-Mar-2009	Bob Brignano	H	15-Jan-2009	06-Mar-2009
Tylin 3/20	ABF-SUB-000973R00	OBG - Shop Assembly (SA) - LIFT 13W - Splice Plate, Bottom Plate, Lift Lug, Pier E2 Seat	07-Mar-2009	Chris Havel	H	16-Jan-2009	07-Mar-2009
Tylin 3/20	ABF-SUB-000974R00	OBG - Plate Sub Assembly (PL) - LIFT 13W - Exterior Plate Details - Plate Types 1-17	07-Mar-2009	Chris Havel	H	16-Jan-2009	07-Mar-2009
Tylin 3/20	ABF-SUB-000978R00	OBG - Standards (X) - LIFT 13W - Architectural Splice, Floorbeam, Plate Diaphragm,	11-Mar-2009	Philip He	H	20-Jan-2009	11-Mar-2009
Tylin prelim 3/13	ABF-SUB-000980R00	OBG - Plate Sub Assembly (PL) - LIFT 13W - Exterior Plate Details - Plate Types 4, 5, 15	11-Mar-2009	Abbas Iranmanesh	H	20-Jan-2009	11-Mar-2009
Tylin 3/20	ABF-SUB-000981R00	OBG - Standards (RS) - LIFT 13W - Plate Stiffener Details	11-Mar-2009	John Lyons	H	20-Jan-2009	11-Mar-2009
Tylin prelim 3/13	ABF-SUB-000982R00	OBG - Side Plate Sub Assembly (SP) - LIFT 13W - Plate Types 4 & 5	11-Mar-2009	Bob Brignano	H	20-Jan-2009	11-Mar-2009
Tylin 3/20	ABF-SUB-000983R00	OBG - Standards (X) - LIFT 13W - Floorbeam, Stiffener Splice Plate	11-Mar-2009	Chris Havel	H	20-Jan-2009	11-Mar-2009
Tylin prelim 3/13	ABF-SUB-000984R00	OBG - Standards (RS) - LIFT 13W - Plate Stiffener Details	11-Mar-2009	Abbas Iranmanesh	H	20-Jan-2009	11-Mar-2009
Tylin 3/20	ABF-SUB-000985R00	OBG - Edge Beam Sub Assembly (EB) - LIFT 13W	11-Mar-2009	Ajay Sehgal	H	20-Jan-2009	11-Mar-2009
Tylin prelim 3/13	ABF-SUB-000986R00	OBG - Side Plate Sub Assembly (SP) - LIFT 13W - Plate Types 5, 15, 16	11-Mar-2009	Philip He	H	20-Jan-2009	11-Mar-2009
Tylin prelim 3/13	ABF-SUB-000987R00*	OBG - Floorbeam Sub Assembly (FB) - LIFT 13W	11-Mar-2009	John Lyons	H	20-Jan-2009	11-Mar-2009
	ABF-SUB-000087R35	OBG - Standard Weld Details (WD) - Typical Weld Details	12-Mar-2009	Philip He	H	26-Feb-2009	12-Mar-2009
	ABF-SUB-000707R01*	OBG - Mark Layout Details (L) - LIFT 14W	12-Mar-2009	Ajay Sehgal	H	26-Feb-2009	12-Mar-2009
Tylin prelim 3/13	ABF-SUB-000990R00	OBG - Standard Details (SD)	12-Mar-2009	John Lyons	H	21-Jan-2009	12-Mar-2009
Tylin prelim 3/13	ABF-SUB-000990R01	OBG - Standard Details (SD)	12-Mar-2009	John Lyons	H	10-Feb-2009	12-Mar-2009
Tylin prelim 3/13	ABF-SUB-000990R02	OBG - Standard Details (SD) - LIFT 14E	12-Mar-2009	John Lyons	H	18-Feb-2009	12-Mar-2009
Tylin 3/20	ABF-SUB-000992R00	OBG - Standards (X) - LIFT 13W - Saddle Support, Floorbeam Details	13-Mar-2009	John Lyons	H	22-Jan-2009	13-Mar-2009
Tylin 3/20	ABF-SUB-000993R00	OBG - Floorbeam Sub Assembly (FB) - LIFT 13W	13-Mar-2009	Bob Brignano	H	22-Jan-2009	13-Mar-2009
Tylin 3/20	ABF-SUB-000994R00	OBG - Shop Assembly (SA) - LIFT 13W - Architectural Splice, Stiffener Plate	13-Mar-2009	Bob Brignano	H	22-Jan-2009	13-Mar-2009
Ty 4/3	ABF-SUB-000667R08	OBG - Layout Assembly (L) - LIFT 13W - Floorbeam Mark Layout Details	17-Mar-2009	Alex Schmitt	H	03-Mar-2009	17-Mar-2009
Tylin 3/20	ABF-SUB-000930R02	OBG - Layout Assembly (L) - LIFT 13W - Floorbeam Details @ PP118 thru PP121	17-Mar-2009	John Lyons	H	03-Mar-2009	17-Mar-2009
	ABF-SUB-000960R01	OBG - Layout Assembly (L) - LIFT 13W - Floorbeam Details	17-Mar-2009	John Lyons	H	03-Mar-2009	17-Mar-2009
	ABF-SUB-000965R01	OBG - Standard Layout Assembly (L) - LIFT 13W	17-Mar-2009	John Lyons	H	03-Mar-2009	17-Mar-2009
	ABF-SUB-001035R00	OBG - Vertical Plate Sub Assembly (VP) - LIFT 14E	17-Mar-2009	Chris Havel	H	24-Feb-2009	16-Mar-2009
Ty by fri 3/13	ABF-SUB-000904R02	Erection Plan (Box Girder) - Box Girder Lifting Plan for LIFTS 1 through 12	18-Mar-2009	Chris Havel	H	26-Feb-2009	18-Mar-2009
Tylin prelim 3/13	ABF-SUB-001003R00	OBG - BikePath Sub Assembly (BK) - Panel Details	25-Mar-2009	Alex Schmitt	H	03-Feb-2009	25-Mar-2009
	ABF-SUB-001004R00	OBG - Standard (X) - Floorbeam Details	25-Mar-2009	Abbas Iranmanesh	H	03-Feb-2009	25-Mar-2009
	ABF-SUB-001005R00	OBG - Standard (X) - Floorbeam Details	25-Mar-2009	Abbas Iranmanesh	H	03-Feb-2009	25-Mar-2009
	ABF-SUB-001008R00	OBG - Layout Assembly (L) - LIFT 13W	27-Mar-2009	Abbas Iranmanesh	H	05-Feb-2009	27-Mar-2009
	ABF-SUB-001008R01	OBG - Layout Assembly (L) - LIFT 13W	27-Mar-2009	Abbas Iranmanesh	H	03-Mar-2009	27-Mar-2009
	ABF-SUB-001013R00*	OBG - Corner Assembly (CA) - LIFT 13W	27-Mar-2009	Chris Havel	H	05-Feb-2009	27-Mar-2009
	ABF-SUB-001006R00	OBG - Standard (X) - LIFT 13W - Plate, Floorbeam Details	28-Mar-2009	Bob Brignano	H	06-Feb-2009	28-Mar-2009
	ABF-SUB-001007R00	OBG - Floorbeam Sub Assembly (FB) - LIFT 13W	28-Mar-2009	Bob Brignano	H	06-Feb-2009	28-Mar-2009
	ABF-SUB-001009R00	OBG - Plate Sub Assembly (PL) - LIFT 14E - Exterior Plate Details - Plate Types 5 thru 18	28-Mar-2009	Chris Havel	H	06-Feb-2009	28-Mar-2009
	ABF-SUB-001011R00	OBG - Side Plate Sub Assembly (SP) - LIFT 14E	28-Mar-2009	Abbas Iranmanesh	H	06-Feb-2009	28-Mar-2009
	ABF-SUB-001012R00	OBG - Standard (RS) - LIFT 14E - Plate Stiffener Details	28-Mar-2009	John Lyons	H	06-Feb-2009	28-Mar-2009

PB OBG STATUS CHART MARCH 16, 2009

Attachment #1 (3/5)

Ty ok	3/9/2009	Submittal Priority by ABF Requested Due Date	Information Only	Responed / *redline	**Posted	Reviewing	PB color code ID
	ABF-SUB-001049R00	West Jacking Saddle Final Machining Drawings	29-Mar-2009	Chris Havel	H	27-Feb-2009	29-Mar-2009
	ABF-SUB-001014R00	OBG - Standard (X) - LIFT 14E - Stiffener Splice & Diaphragm Plates	01-Apr-2009	Bob Brignano	H	10-Feb-2009	01-Apr-2009
	ABF-SUB-001015R00	OBG - Plate Sub Assembly (PL) - LIFT 14E - Exterior & Interior Plate Details - Plate Types	01-Apr-2009	Bob Brignano	H	10-Feb-2009	01-Apr-2009
	ABF-SUB-001016R00	OBG - Standard (RS) - LIFT 14E - Plate & Rib Stiffener Details	01-Apr-2009	John Lyons	H	10-Feb-2009	01-Apr-2009
	ABF-SUB-001017R00	OBG - Shop Assembly (SA) - LIFT 14E - Stiffener Splice Plate Details	01-Apr-2009	John Lyons	H	10-Feb-2009	01-Apr-2009
	ABF-SUB-001018R00	OBG - Deck Plate Sub Assembly (DP) - LIFT 14E - Plate Type 1	01-Apr-2009	Philip He	H	10-Feb-2009	01-Apr-2009
	ABF-SUB-001020R00	OBG - Standard (X) - LIFT 14E - Stiffener, Floorbeam, Edge Beam Plates Details	02-Apr-2009	Philip He	H	11-Feb-2009	02-Apr-2009
	ABF-SUB-001021R00	OBG - Plate Sub Assembly (PL) - LIFT 14E - Exterior Plate Details - Plate Type 7	02-Apr-2009	Chris Havel	H	11-Feb-2009	02-Apr-2009
	ABF-SUB-001022R00	OBG - Standard (RS) - LIFT 14E - Plate and Rib Stiffener Details	02-Apr-2009	Bob Brignano	H	11-Feb-2009	02-Apr-2009
	ABF-SUB-001031R00	OBG - Edge Beam Sub Assembly (EB) - LIFT 14E	09-Apr-2009	Bob Brignano	H	18-Feb-2009	09-Apr-2009
	ABF-SUB-001032R00	OBG - Standard (X) - LIFT 13W - Floorbeam Details	09-Apr-2009	Philip He	H	18-Feb-2009	09-Apr-2009
	ABF-SUB-001025R01	Critical Weld Repair Report - Oregon Iron Works - Hinge K Pipe Beam Base Assembly	10-Apr-2009	Abbas Iranmanesh	H	19-Feb-2009	10-Apr-2009
	ABF-SUB-001026R00	OBG - Standard (X) - LIFT 14E - Longitudinal Stiffener, Edge Beam, Floorbeam Diaphragm	10-Apr-2009	Chris Havel	H	19-Feb-2009	10-Apr-2009
	ABF-SUB-001027R00	OBG - Standard (RS) - LIFT 14E - Plate Stiffener Details	10-Apr-2009	John Lyons	H	19-Feb-2009	10-Apr-2009
	ABF-SUB-001028R00	OBG - Deck Plate Sub Assembly (DP) - LIFT 14E - Plate Types 1, 2, 10	10-Apr-2009	Chris Havel	H	19-Feb-2009	10-Apr-2009
	ABF-SUB-001029R00	OBG - Side Plate Sub Assembly (SP) - LIFT 14E - Plate Type 7	10-Apr-2009	John Lyons	H	19-Feb-2009	10-Apr-2009
	ABF-SUB-001030R00	OBG - Bottom Plate Sub Assembly (BP) - LIFT 14E - Plate Types 6, 13, 14	10-Apr-2009	Philip He	H	19-Feb-2009	10-Apr-2009
	ABF-SUB-001033R00	OBG - Standard Details (SD) - LIFT 14E - Deck Plate Details	10-Apr-2009	Alex Schmitt	H	19-Feb-2009	10-Apr-2009
	ABF-SUB-001034R00	OBG - Side Plate Sub Assembly (SP) - LIFT 14E - Plate Types 5, 7, 8, 15, 16	10-Apr-2009	John Lyons	H	19-Feb-2009	10-Apr-2009
Ty by fri 3/13	ABF-SUB-001036R00	Erection Plan (Tower) and (Box Girder) - Shearleg Crane	17-Apr-2009	Ajay Sehgal	H	26-Feb-2009	17-Apr-2009
	ABF-SUB-001037R00	OBG - Standard (X) - LIFT 14E - Plate Details	17-Apr-2009	Alex Schmitt	H	26-Feb-2009	17-Apr-2009
	ABF-SUB-001038R00	OBG - Standard Details (SD) - LIFT 14E - Lift Lug & Anchorage Plate Connection L Details	17-Apr-2009	Philip He	H	26-Feb-2009	17-Apr-2009
	ABF-SUB-001039R00	OBG - Floorbeam Sub Assembly (FB) - LIFT 14E	17-Apr-2009	Philip He	H	26-Feb-2009	17-Apr-2009
	ABF-SUB-001040R00	OBG - Standard (X) - LIFT 14W - Stiffener Diaphragm & Edge Beam Plate Details	17-Apr-2009	Ajay Sehgal	H	26-Feb-2009	17-Apr-2009
	ABF-SUB-001041R00	OBG - Standard (RS) - LIFT 14W - Plate Stiffener Details	17-Apr-2009	Abbas Iranmanesh	H	26-Feb-2009	17-Apr-2009
	ABF-SUB-001042R00	OBG - Plate Sub Assembly (PL) - LIFT 14W - Exterior Plate Details Types 9, 17, 18	17-Apr-2009	Abbas Iranmanesh	H	26-Feb-2009	17-Apr-2009
	ABF-SUB-001044R00	TOWER - Diaphragm Grating Details - LIFT 1	17-Apr-2009	John Lyons	H	26-Feb-2009	17-Apr-2009
	ABF-SUB-001045R00	OBG - Standard (X) - LIFT 14W - Edge Beam Details	17-Apr-2009	John Lyons	H	26-Feb-2009	17-Apr-2009
	ABF-SUB-001046R00	OBG - Plate Sub Assembly (PL) - LIFT 14W - Vertical Plate Details	17-Apr-2009	Alex Schmitt	H	26-Feb-2009	17-Apr-2009
	ABF-SUB-001047R00	OBG - Edge Beam Sub Assembly (EB) - LIFT 14W	17-Apr-2009	John Lyons	H	26-Feb-2009	17-Apr-2009
	ABF-SUB-001051R00	Erection Plan (Box Girder) - Shear Leg Crane Layouts - LIFTS 1-4	22-Apr-2009	Bob Brignano	H	03-Mar-2009	22-Apr-2009
	ABF-SUB-001012R01	OBG - Standard (RS) - LIFT 14E - Plate Stiffener Details	23-Apr-2009	John Lyons	H	05-Mar-2009	24-Apr-2009
	ABF-SUB-001053R00	Heat Straightening Report (HSR) - Oregon Iron Works	23-Apr-2009	Chris Havel	H	04-Mar-2009	23-Apr-2009
	ABF-SUB-001054R00	OBG - Survey Plan - LIFTS 1 thru 11	28-Apr-2009	Philip He	H	09-Mar-2009	28-Apr-2009
	ABF-SUB-001056R00	OBG - Standard (X) - LIFT 14E - Longitudinal Shear, Floorbeam Plate Details	28-Apr-2009	Ajay Sehgal	H	09-Mar-2009	28-Apr-2009
	ABF-SUB-001057R00	OBG - Floorbeam Sub Assembly (FB) - LIFT 14E	28-Apr-2009	Ajay Sehgal	H	09-Mar-2009	28-Apr-2009
	ABF-SUB-000914R01						
	ABF-SUB-000758R02						
	ABF-SUB-000704R01						
	ABF-SUB-000912R01						
	ABF-SUB-000959R02*						

PB OBG STATUS CHART MARCH 16, 2009

Attachment #1 (4/5)

Ty ok	3/9/2009	Submittal Priority by ABF Requested Due Date
	ABF-SUB-000478R05	
	ABF-SUB-000158R12	
	ABF-SUB-000836R03	
	ABF-SUB-000637R02	
	ABF-SUB-000837R02	
	ABF-SUB-000835R02	
	ABF-SUB-000454R02	
	ABF-SUB-000838R02	
	ABF-SUB-000836R02	
	ABF-SUB-000521R02	
	ABF-SUB-000523R02	
	ABF-SUB-000522R02	
	ABF-SUB-001008R01	
	ABF-SUB-000568R01	
	ABF-SUB-000467R04	
	ABF-SUB-000530R03	
	ABF-SUB-000533R05	

Information Only	Responed / *redline	**Posted	Reviewing	PB color code ID

PB TOWER STATUS CHART MARCH 16, 2009

Attachment #1 (5/5)

Ty ok	3/9/2009	Submittal Priority by ABF Requested Due Date	Information Only	Responed / *redline	**Posted	Reviewing	PB color code ID
CT/JV Status	Reference	Subject	Req. Due Date	Resp. Engineer	Discipline	Date Received	Contract Due Date
Tylin final ???	ABF-SUB-000141R33	TOWER - T1 Tower Weld Details (WDT)	04-Mar-2009	Mohammad Awal	P	18-Feb-2009	04-Mar-2009
Ty by fri 3/13	ABF-SUB-000687R04	TOWER - TL Drawings - LIFT 3	09-Mar-2009	Sanny Khow	P	23-Feb-2009	09-Mar-2009
Extend Ty ret.3/17	ABF-SUB-000605R12	TOWER - Skirt Drawings - LIFT 1	11-Mar-2009	Mohammad Awal	P	25-Feb-2009	11-Mar-2009
Ty by fri 3/13	ABF-SUB-000988R00*	TOWER - LIFT 3 - Exterior Ladder & Rail	11-Mar-2009	Mohammad Awal	P	20-Jan-2009	11-Mar-2009
Ty by fri 3/13	ABF-SUB-000989R00*	TOWER - LIFT 4 - Exterior Ladder & Rail	11-Mar-2009	Sanny Khow	P	20-Jan-2009	11-Mar-2009
	ABF-SUB-000741R03	TOWER - T1 Splice - LIFT 5	13-Mar-2009	Sanny Khow	P	27-Feb-2009	13-Mar-2009
	ABF-SUB-000498R05	TOWER - Strut Facade - LIFT 3	17-Mar-2009	Mohammad Awal	P	03-Mar-2009	17-Mar-2009
	ABF-SUB-001043R00	OBG - Edge Plate Sub Assembly (EP) - LIFT 14W - Plate Types 9, 17, 18	25-Mar-2009	Sanny Khow	P	25-Feb-2009	16-Apr-2009
	ABF-SUB-000605R13						
	ABF-SUB-000605R14						
	ABF-SUB-001044R00						

Attachment #2 (1/1)

Gina
Rizzardo/D04/Caltrans/CAGov

03/15/2009 07:38 PM

To Michael Travis/HQ/Caltrans/CAGov@DOT, Martin Chandrawinata/D04/Caltrans/CAGov@DOT
cc Bill Shedd/D04/Caltrans/CAGov@DOT
bcc
Subject MEP Penetrations 3/9 - 3/13

3/9/09 – 3/13/09

TOWER

Shear plate A23 - 8 penetrations

OBG

DP 716 – 4 penetrations

DP673 & DP673A – 4 penetrations total

One photo is up on the server as well.

Thanks,
Gina Rizzardo
Structures Construction
SF/OBB-SAS
136-1187-1856

Attachment #3 (1/10)

Attachments can contain viruses that may harm your computer. Attachments may not display correctly.

Mike Travis

From: Chris Bausone [cbausone@abfjv.com] **Sent:** Mon 3/16/2009 11:07 AM

To: 'Bill Shedd'; 'Mark Woods'; Mike Travis; 'Michael Stone'; 'Anna Lee'; syeager@abfjv.com; 'Bernard R Feather'; kbaltzer@abfjv.com; billf@fwspencersoninc.com; 'Martin Chandrawinata'

Cc:

Subject: 3/11/09 OppSched mtg recap

Attachments: SAS - MEP OppSched Mtg Recap 03-11-09.doc(367KB)

All – Please review my recap of agenda topics discussed at our meeting last week. If you have suggestions for notes to add, change or delete, please send them to me asap. After discussing/making suggested changes, I will distribute a final draft of the recap to a larger group of individuals that may find the information informative or useful. Thanks. -chris

--

This message has been scanned for viruses and dangerous content by **MailScanner**, and is believed to be clean.

Attachment #3 (2/10)

American Bridge / FLUOR
A JOINT VENTURE

SAN FRANCISCO OAKLAND BAY BRIDGE
EAST SPAN SEISMIC RETROFIT SAFETY PROJECT
SELF-ANCHORED SUSPENSION BRIDGE
(SUPERSTRUCTURE AND TOWER)
PROJECT NUMBER 660110

SAS - MEP OPPORTUNITY SCHEDULE MEETING
March 11, 2009 Meeting Recap
WDC Conference Room

- **ATTENDANCE:**
  - **CT**: Mike Stone, Bill Shedd, Mike Travis, Mark Woods, Martin Chandrawinata, Rob Feather
  - **ABFJV**: Chris Bausone, Scott Yeager, Karsten Baltzer
  - **BLI**: Anna Lee, Amy Cha
  - **FWS**: Bill Farrell
  - Some attendees had to leave early but most were there for duration of meeting, which started shortly after 1pm and continued for about 4 hours.

- **GOALS**
  - Main: Mitigate delays to meet or exceed project milestones for Phase completion
    - Phase 1 - March 2012 – all work west of Pier W2 centerline
    - Phase 2 – September 2012 – all work to open Westbound lanes to traffic
    - Phase 3 – March 2013 – all remaining work to complete the project
  - Alternative: Open the bridge to traveling public by Phase completion milestones even if substantial project completion has not been attained
    - Some work over traffic may be necessary to complete
    - Temporary lane closures may be necessary to complete

- **REVIEW WORK SCOPE, SEQUENCE, CONSIDERATIONS FOR DISTINCT AREAS REQUIRING MEP ACCESS**
  - **W2 UNDERGROUND**
    - Electrical work: rigid conduit, duct banks, vaults w/ manholes, cables
    - Predecessor: Cap Beam falsework and foundation removal
    - Tower Tie-back piles and anchoring block in vicinity
    - Completion planned with Phase 1
    - ABFJV design consultants for tower tie-back have been made aware of the required MEP underground work nearby and been directed to account for pile overburden disturbance that is expected during excavations for MEP.

- **W2 BELOW RETAINING WALL COVER SLAB**
  - Electrical work: cable trays, supports, cables, Seismic, Grounding
  - W2W retaining wall requires new penetrations for electrical
    - Consider coordinating wall penetration work with duct bank excavations to eliminate redundant digging. Bleyco can begin their excavation at the retaining wall.
  - Electrical installations attach mainly to retaining wall
  - Cable tray supports ~~at W2W~~ require drilling and anchoring in concrete
  - Seismic and Grounding installations at top of pier footing
  - Access is required along full height of retaining wall

- **W2 ABOVE RETAINING WALL COVER SLAB**
  - Electrical work: pull boxes, supports, flexible conduits
  - Mechanical work: piping, fittings, expansion loops, supports, terminations
  - MEP installations attach to cover slab: require drilling and anchoring in concrete
  - Predecessor: erection of cover slab, which is not expected to be in place until late in the project schedule.
  - CT Action: double check limits of pipe terminations and verify that design/contract exists for a YBI contractor to make the tie-ins.

- **W2 COLUMNS**
  - Electrical work: cable trays, pull boxes, supports, cables
  - Mechanical work: piping, fittings, supports
  - Electrical supports require drilling and anchoring in concrete
  - Access is required along full height of columns on east side of W2
  - Workpoints are likely to be accessed from boom lifts, with material hoisting by crane

- **W2 CAP**
  - Electrical work: cable trays, supports, cables, rigid conduit (to dehumid unit)
  - Mechanical work: piping, fittings, supports
  - Electrical supports require drilling and anchoring in concrete
  - Access is required to bottom and east side surfaces of cap concrete
  - Predecessor: lower the Cap Beam work platform in preparation for cable work

- **W2-OBG TRANSITION**
  - Electrical work underneath: cable trays, supports, flex conduit, cables, grounding
  - Mechanical work around sides: piping, fittings, supports
  - Catwalk for main Cable installation may impede some mechanical work
    - Outboard air and water pipes transitioning from Cap Beam to OBG
  - Cradles for OBG may impede electrical work
  - Access is required below girders for structural supports installation and electrical installations
    - Access by boom lift or other means
    - Can any existing falsework be utilized?
  - Access is required inside girders for heavy concentration of electrical work including a large splice box for 15kV
    - This note was just to emphasize that there are many many electrical installation and wiring activities to do in a relatively small area.
    - 15kV splice box is planned for loading/staging while there is an open end of the Lift Segment, prior to, or shortly after, it gets erected.
  - Access is required at girder sides for mechanical work
  - Closure pour must be cured prior to installation of some pipe supports
    - Closure pour occurs sometime between erection of OBG Lifts 4 & 8

Attachment #3 (4/10)

- **OBG-WB GIRDER**
  - Electrical work: cable trays, rigid conduits, pull boxes, cables, lighting, switches, receptacles, Seismic, Navigation, Fiber Optic, 15kV
  - Access/Egress in/out of girder is limited to small access holes near field splices
  - Cable trays are intended to be loaded from open end of lift segment
    - Will electricians have access to OBG segments prior to their erection, for staging materials and/or installing longitudinal cable trays on supports?
  - OBG-WB construction generally has priority over OBG-EB

- **OBG-WB ROADWAY**
  - Electrical work: rigid conduits, flex conduits, pull boxes, cables, lighting, 20m light poles, receptacles, Call Box, TOS cameras, MVDS
    - Light pole prototypes are in fabrication
  - Mechanical work: piping, fittings, supports, utility stations, expansion loops
  - Access is mainly required in and around roadway barrier
  - Access holes in deck plate must be repaired prior to some pipe installation
    - No problem
  - Completion is planned with Phase 2
  - OBG-WB construction generally has priority over OBG-EB

- **OBG-EB GIRDER**
  - Electrical work: cable trays, rigid conduits, pull boxes, cables, lighting, switches, receptacles, Seismic, Navigation, Fiber Optic, 15kV
  - Access/Egress in/out of girder is limited to small access holes near field splices
  - Cable trays are intended to be loaded from open end of lift segment
    - Will electricians have access to OBG segments prior to their erection, for staging materials and/or installing longitudinal cable trays on supports?

- **OBG-EB ROADWAY**
  - Electrical work: rigid conduits, flex conduits, pull boxes, cables, lighting, 20m light poles, receptacles, Call Box, TOS cameras, MVDS
  - Mechanical work: piping, fittings, supports, utility stations, expansion loops
  - Access is mainly required in and around roadway barrier
  - Access holes in deck plate must be repaired prior to some pipe installation

- **OBG-CROSSBEAM AT SERVICE PLATFORMS**
  - Electrical work: cable trays, rigid conduits, lighting, switches, receptacles
  - Access to crossbeam interior is from outside at service platforms or from inside of girders
  - Cable trays are intended to be loaded prior to erection of crossbeams

- **OBG-SERVICE PLATFORMS**
  - Electrical work: ~~equipment racks~~, wireways, lighting panels, utility panels, transformers, breakers, panel enclosures, SCADA, Seismic, TOS/COM, 15kV
  - Access to service platforms is from crossbeams
  - Prececessor: Service Platform bolt-up and equipment rack installation (by ABF)
  - Coordinate hoisting of all material onto platforms.

- **OBG-EB BIKE PATH**
  - Electrical work: rigid conduit, flex conduit, lighting, 3.5m poles, Call Box
  - Mechanical work: piping, fittings, supports, utility stations, expansion loops
  - Access is required along edges of bike path and underneath bike path
  - CT uncertain whether or not bike path truly needs to open for public access when Eastbound roadway is opened.

- **OBG-TOWER TRANSITION**
  - Electrical work: rigid conduit, splice boxes, messenger cables, flex conduit, cables, lighting, grounding, Seismic
  - Mechanical work: piping, fittings, supports, expansion loops, Booster Pump
  - Access to electrical equipment platform at OBG-EB may be delayed due to presence of temporary crane tower
  - Predecessor: Erection of Service/Access platforms
  - T1 Erection Tower (T1-ET) impedes erection of electrical service platform attached to OBG-EB between PP40 and PP41. T1-ET will not be removed until after Tower Head erection.
  - Design of the four large pull boxes (A,B,C,D) is not complete.
  - This area requires more attention from Designers and Contractors, since basically everything in and on the Tower gets fed from OBG.
  - Architect is having negative affect on completion of MEP design work at Elev. 53.85, which prevents construction planning.

- **TOWER SHAFTS AND PLATFORMS INSIDE**
  - Electrical work: cable trays, cables, lighting, receptacles, switches, utility panels, transformers, breakers, Seismic
  - Access will be through permanent means of access/egress
  - What is predecessor to MEP access?
    - For electrical In general: for each of Lifts 1-4, erect/bolt shafts, struts, cross bracing, facades

- **TOWER SHAFTS AND PLATFORMS OUTSIDE**
  - Electrical work: conduits, cables, pull boxes, lighting, receptacles, switches, Nav/Av Warnings, Seismic
  - Mechanical work: Elevator, piping for air/water, Booster Pump
  - What is predecessor to MEP access?
    - For electrical In general: for each of Lifts 1-4, erect/bolt shafts, struts, cross bracing, facades
    - For pipe risers installation below Elev 53: erect/bolt Lift 2 or Lift 3
    - For pipe risers installation above Elev 53: erect/bolt Lift 4
    - For elevator mast installation: load transfer

- **TOWER HEAD**
  - Electrical work: conduits, cables, lighting, switches, receptacles, Aviation Warning, Dehumid unit hookup
  - Mechanical work: Dehumid unit, dehumid ductwork, supports
  - Access will be through permanent means of access/egress.
    - Additional access available via temporary elevator for tower from Elev. 57 on up and via catwalk for main cable.
  - Ductwork installation can't be completed until after saddle housing is installed
  - What is predecessor to MEP access?
    - Load transfer and Tower Head erection

- **TOWER ANCHORAGE**
  - Electrical work: Conduits, pull boxes, cables, lighting, switches, receptacles, Seismic, Dehumid unit hookup, Elevator hookup, Sump Pump hookup
  - Mechanical work: Dehumid unit, dehumid ductwork, supports, Sump Pump, and piping, Elevator
  - Access will be through permanent means of access/egress
  - What is predecessor to MEP access?
    - In general: Structural welding and bolting
    - For Sump Pump and misc other work: erect/bolt Tower Skirt

- **T1 PILE CAP**
  - Electrical work: conduits, cables, lighting, Navigation Warning
  - Do temp structures affect access? Yes
  - Predecessor: Temp structure removals and pier fender installation

- **TOWER-CABLE TRANSITION**
  - Electrical work: conduits, supports, cables
  - Mechanical work: dehumid system ductwork
  - Access for MEP must follow cable shroud installation
  - Predecessor: erect/bolt Tower Head, Cable Shrouds, Saddle Housings

- **SAS-SKYWAY TRANSITION**
  - Electrical work: cable trays or conduits, supports, cables, splices
  - Mechanical work: piping, fittings, expansion loop, supports, tie-in
  - Access is required for mech work below bike path
  - Hinge A pipe beams carry conduits and electrical circuits, so they must be set prior to completion of electrical work
  - Predecessor: load transfer and final elevation setting for obg and bike path.

- **CABLE MAIN SPANS AND BACK SPANS**
  - Electrical work: messenger cable, flexible conduits, pull boxes, cables, lighting, Seismic, Aviation Warning
  - What is predecessor to MEP access? Cable wrapping (and then messenger cable installation)
  - Will catwalk impede any electrical installations? No. Catwalk can be utilized
  - At what sequence will catwalk be removed? Last, after painting
  - How many cable wrapping machines will be used? 2 machines at same time on different cable spans
  - Can electrical components be installed shortly behind cable wrapping progress? Yes
  - Is painting a predecessor for electrical work? No. Painting is successor activity
  - What is cable wrapping and paint sequence for main span and back spans, north side and south sides?
    - The two back span cable runs will be wrapped at the same time and the two main span cable runs will be wrapped at the same time. It's not decided which span will get wrapped first. Cable wrapping will follow load transfer.

- **CABLE ANCHORAGES AND SADDLES**
  - Electrical work: dehumid unit hookups near West jacking saddle, East anchorages, Tower saddle (same as Tower Head)
  - Mechanical work: dehumid unit near west jacking saddle, East anchorages, and Tower saddle; dehumid ductwork at west saddle housings and shrouds, Tower saddle housing and shrouds, OBG anchorage and saddles
  - East anchorage dehumidification system installation is affected by cable installation and anchoring operations
  - Ductwork (and some electrical) installation must follow cable shroud and saddle housing installations at Tower Head and West Saddles
  - Saddle housings and cable shrouds will be installed after load transfer
  - What is predecessor to duct installation at East Anchorages?
    - Cable installation and erection of OBG anchorage enclosure
  - How/When can dehumid units be loaded into East anchorages?
    - It may be possible to hoist dehumid units into open sides of OBG for staging at (or near) their mounting locations

Attachment #3 (7/10)

- **E2 COLUMNS CAP**
  - Electrical work: pull boxes, conduits, cables
  - Access is required at side of cap
  - Will temporary work for bearings or shear keys limit MEP access to east side?
    - To be checked

- **E2 COLUMNS**
  - Electrical work: conduits, cables, supports
  - Access is required along full height of columns
  - Do temp structures affect access?
    - To be checked

- **E2 PILE CAP**
  - Electrical work: conduits, pull boxes, cables, lighting, Navigation Warning, Seismic
  - Do temp structures affect access?
    - To be checked

LOAD TRANSFER CONSIDERATIONS

- How much barrier movement or compression is expected relative to deck?
  - Can conduit be secured to barrier and pull boxes prior to load transfer?
    - Yes, but only if conduit won't impede barrier bolting activities
- ~~Can conduit be secured to deck prior to load transfer?~~
- Will temp tower removal create more OBG movement or compression? No
- Will OBG movement or compression affect MEP installations inside the OBG? Likely not
- Does proper load transfer require weight of MEP materials to be installed in/on OBG? No
- ~~Does proper load transfer require weight of Travelers to be hung from OBG?~~
- Consult with Design JV regarding compression or relative bridge movements

GENERAL MEP CONSIDERATIONS

- Structure transitions are likely to have temporary structures impeding MEP installations prior to removal of temporary structures
  - What effect would this have on system installation?
    - Discontinuity that may be overcome by temporary installations if need be
  - What effect would this have on system testing?
    - Potential to delay testing until transition zone MEP can be installed
- Must all work on cables be completed prior to opening roadways to traffic?
  - Perhaps not for some things, such as testing Seismic system, but completion of all MEP installations on main cables should be a consistent goal due to hazard of working above traffic
- Must all roadway lighting, MVDS units and call boxes be installed and operational prior to opening roadways to traffic?
- Must Tower outside work be completed prior to opening roadways to traffic?
- What areas will ABFJV make available for local storage or staging of materials?
  - ABF to coordinate storage/staging areas with Subcontractors. Space is limited.
- Review details of Temp Structures that may impede MEP work or be useful for access to MEP work

Attachment #3 (8/10)

- **MEP CONSIDERATIONS IN AND AROUND BARRIER**
  - Conduits are intended to be loaded from open end of barrier segments.
    - What is Bleyco plan for moving conduits into place and securing them?
      - Bleyco plan is to install and secure conduits as soon as they are allowed access to do so. For conduit installation they require access from the open end of barrier segments
    - Rigid conduit will typically be supplied in 10-feet lengths
  - Schedule currently shows all barrier (through Lift 14) getting set and bolted prior to conduit installation beginning
    - Can schedule be condensed to show conduit installation beginning sooner and progressing as barrier erection progresses? Perhaps
    - Will barrier bolting be impeded by conduit and pull box installation? Yes
      - Barrier bolting will be impeded but not completely. Lowest clearance for bolting access is to COM conduits and pull boxes
      - Bleyco may not want to install conduit ahead of time if they can't also install the associated pull boxes
    - What is predecessor for securing conduit to barrier and pull boxes?
      - Barrier bolting
    - Can pull box installation and conduit fastening progress shortly behind barrier bolting progress? Yes
  - Can piping installations progress shortly behind barrier bolting progress? No
    - Must piping installation be preceded by conduit and pull box installation? Yes
    - Must piping installation be preceded by cable pulling? Yes
  - Must electrical testing precede installation of barrier cover plates at pull box locations? At other locations?
    - No, but pull box locations should be labeled (permanently, as well as temporarily) for easy identification in the future, in case a box needs to be accessed.

Attachment #3 (9/10)

- **MECHANICAL SCHEDULE OR SEQUENCE CONSIDERATIONS**
  - Schedule currently shows work for both roadways being performed simultaneously. Considering the Phase 2 completion milestone, should work along Westbound roadway progress ahead of work along Eastbound roadway?
  - Must all pipe installation follow after load transfer?
    - Most pipe installation may have to follow (electrical) cable pulling as well as load transfer
  - What lengths of steel pipe will be preassembled prior to installation?
    - Lengths of pipe assemblies will be limited by length of truck trailer, assuming truck access onto OBG from Skyway. If lengths of pipe are hoisted to the bridge deck, there may be other limitations.
  - ABFJV consider painting steel pipes prior to their installation?
    - This is a Contractor Means and Methods topic that ABFJV will consider and discuss internally with the appropriate Subcontractors
  - Schedule currently shows testing activities for each each system by phase, followed by an overall performance test. Is schedule realistic or can some time get reeled in?
    - Testing requirements have many variables affecting their sequences that are very difficult to foresee at this time. This complex topic will have to be studied and monitored for impact by "Opportunity" decisions.
  - What is FWS plan for resource loading? To be discussed later
  - What is planned for local storage or staging of materials? To be discussed later

- **ELECTRICAL SCHEDULE OR SEQUENCE CONSIDERATIONS**
  - Can Bleyco procure and deliver materials and equipment prior to the current schedule completion date of January 2010? Not needed
  - What electrical activities have load transfer as a predecessor? Refer to Recap notes from distinct areas requiring MEP access.
  - What is BLI plan for resource loading? Labor supply will conform to project demands
  - What is planned for local storage or staging of materials? Storage at project site as per availability and provision from authorities in charge
  - What length of cable tray or conduit should be installed prior to cable pulling?
    - Prior to pulling cables, all cable trays and conduit should be installed. However, Bleyco may be able to work around discontinuities at limited locations such as transitions between W2, OBG, Tower and Cable

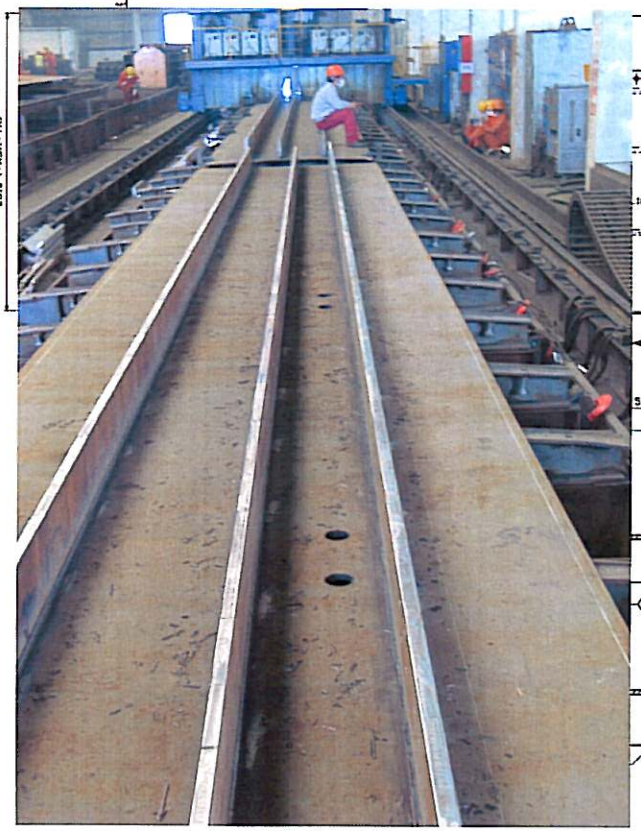
Attachment #3 (10/10)

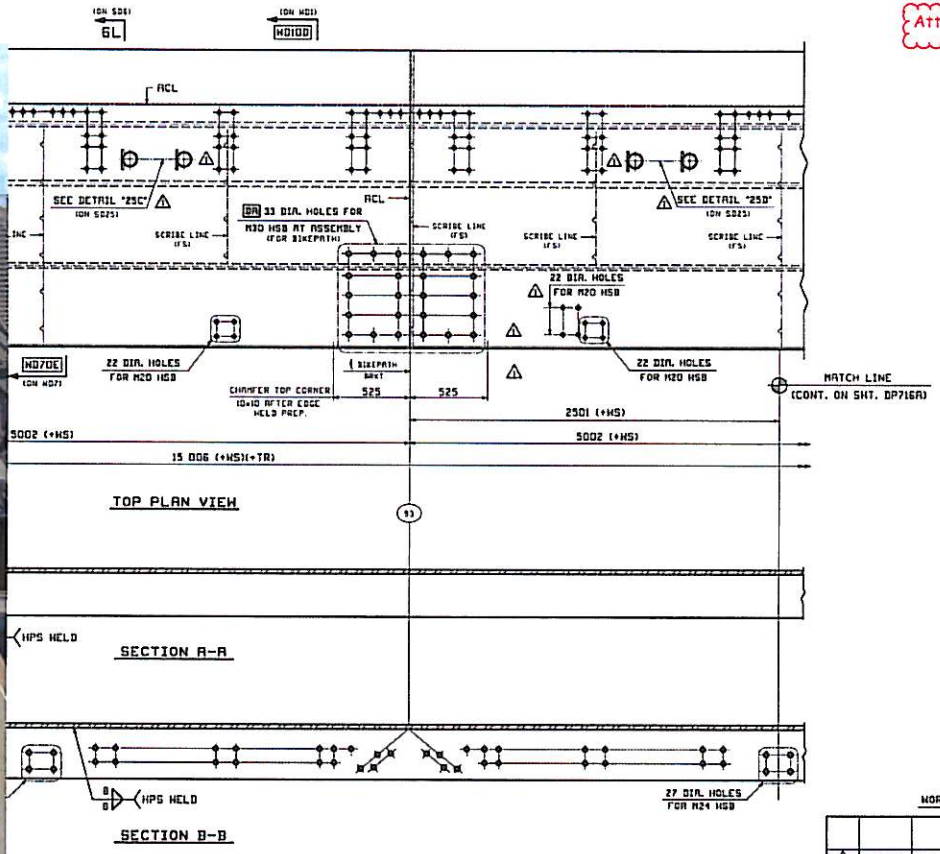
- **OUTSIDE AGENCY INVOLVEMENT**
  - Coordination is required for the following systems with the following groups. Can outside agencies be trusted to cooperate with SAS schedule opportunities?
    - Traffic Operation Systems - TOS Specialists (Caltrans non-SAS)
    - Strong Motion Detection & Recording Systems - CDMG
    - Navigation & Aviation Warning Systems - FAA & Coast Guard
    - BASE (Bay Area Security Enhancements) – Caltrans (non-SAS) & Federal Homeland Security
    - Elevator – D.O.S.H.
    - All outside agency involvement is the ultimate responsibility of the State, with some Contractor responsibility to coordinate work activities such as placement of strong motion detectors by CDMG.

- **DESIGN CONSIDERATIONS**
  - How does incomplete design work for electrical installations at Tower platform affect schedule opportunities?
  - What other designs are incomplete and have potential to delay the project schedule?
  - The Department must evaluate how incomplete design work affects the "Opportunities" being considered and the ability in general to schedule related construction work

- **OPPORTUNITY SCHEDULE SUGGESTIONS**
  - Sever the Finish-Start schedule ties between load transfer and barrier bolting. Complete barrier bolting as early as possible.
  - Don't change MEP layouts at Tower platform elevation 53.85. Have architect design curtain screens to hide all things they consider to be hideous.
  - For Architectural and Schedule considerations to resolve issues at OBG-Tower transition:
    - Change MEP platform design to make a separate MEP platform on Tower below roadway level.
    - Or, change MEP platform design to make a Tower Façade above Elev. 53.85 that houses MEP elements instead of structural elements
  - In consideration of opening roadways to the traveling public as early as possible:
    - State can decide to jettison requirement to complete some MEP work in any of the three Phase milestones, opting to complete them by a later date
    - Additional temporary MEP installments may be required to achieve this
    - Make a list of MEP items that can (or can't) wait to be completed at a more opportune time

Attachment #4 (1/1)





DECK PLATE SUB-ASSY ~ MARK DP716A

(@ QSE10 - SEGMENT 10C, "E" LINE)
(@ SOUTH SIDE - TYPE (2))

X APPROVED
☐ APPROVED AS NOTED
☐ RETURNED FOR CORRECTION

T.Y.LIN INTERNATIONAL AND MOFFATT & NICHOL, A JV
THE EAST SPAN BRIDGE DESIGN TEAM

APPROVAL PURSUANT TO SECTION 5-1.02 OF THE STANDARD SPECIFICATIONS OF THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION. IF A SPECIFIC ITEM SHALL NOT INDICATE APPROVAL PURSUANT TO SECTION 5-1.02 OF ASSEMBLY WHICH THE ITEM IS A COMPONENT.

05.16.08
APPROVED BY — DATE

NOTES:

1. FOR GENERAL NOTES SEE SHEETS GN1 THRU GN5.
2. FOR WELDING DETAILS SEE SHEETS WD1, WD2, WD3 & WD7.
3. FOR STANDARD DETAILS SEE SHEETS PL1308, RS65, RS78, SD6, SD25 & X312.
4. ALL BOLT HOLES ARE 24 DIA. FOR M22 H.S. BOLTS (UN).
5. DECK SUB-ASSY IS SHOWN WITH CAMBERED DIMENSIONS, WITHOUT ANY ADJUSTMENTS FOR WELD EDGE PREPARATION, WELD SHRINKAGE, TRIMMING OR SQUARING.

WORK THIS SHEET WITH SHEET DP716A

NO	DATE	REMARKS	BY
3	02-14-08	APPROVAL COMMENTS - RELEASED FOR FABRICATION	CRH PCP

REVISIONS

ZPMC
SHANGHAI ZHENHUA PORT MACHINERY CO., LTD.

SAN FRANCISCO OAKLAND BAY BRIDGE, EAST SPAN SELF-ANCHORED SUSPENSION SPAN
ROUTE 80 EAST OF YERBA BUENA ISLAND, DISTRICT 04, SF COUNTY, CA.
BRIDGE Nos: 34-0008L PM 8.2, KP 13.2 & 34-0008R PM 8.7, KP 13.8
STATE OF CALIFORNIA DEPT. OF TRANSPORTATION CONTRACT NO. 04-0120F4
ENGINEER: CALTRANS ---- T.Y.LIN / MOFFATT & NICHOL, JV.
CONTRACTOR: AMERICAN BRIDGE / FLUOR ENTERPRISES, JV.

DECK PL SUB-ASSY - PL (2) (SEG. 10C) ("E" LINE")

DRAWN	EED	10/16/07		SHEET NO.	DRAWING NO.
CHECKED	PCP	04/24/08		DP716	DECK

Attachment #5 (1/3)

Michael Travis/HQ/Caltrans/CAGov
03/16/2009 09:57 AM

To Bill Shedd/D04/Caltrans/CAGov@DOT, Michael Stone/D04/Caltrans/CAGov@DOT
cc SAS - Caltrans
bcc
Subject Conflict between the T1-ET and the Pull Box @ Tower Structure

Attached is a copy of the T1-ET and the Pull Box Platform overlaid to scale showing the conflict between the two.

The creates the problem of install all the Tower connections from the OBG after removal of the T1-ET.

Draft Shop Drawing T1-ET and Pull Box Platform Conflict: T1ET Conflict MFT.pdf

Any questions or conflicts please let me know.

Michael Travis
SFOBB Construction Offices
Design Campus Building
375 Burma Road
Oakland Ca. 94607
Phone: 510-808-4618

Attachment #5 (2/3)

Mike Travis

From: Chris Bausone [cbausone@abfjv.com] **Sent:** Mon 3/16/2009 1:53 PM
To: Mike Travis
Cc:
Subject: RE: Eastbound Pull Box Platform conflict with T1 Erection Tower Overlay Plan sheet Layout - FYI
Attachments:

Thanks for sharing. it looks like a direct hit.

-----Original Message-----
From: Mike Travis [mailto:Mike.Travis@lanengineering.com]
Sent: Monday, March 16, 2009 1:49 PM
To: cbausone@abfjv.com
Cc: Bill Shedd
Subject: Eastbound Pull Box Platform conflict with T1 Erection Tower Overlay Plan sheet Layout - FYI

Chris,

Attached is a copy of the T1-ET submittal sheet that I used to overlay the Pull Box Platform to see how much of a conflict exist between the two.

I tried to maintain the proper proportion so as to judge the amount of interference that exists between the two structures.

Thought you might like to have a copy.

Mike

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This message has been scanned for viruses and dangerous content by MailScanner, and is believed to be clean.

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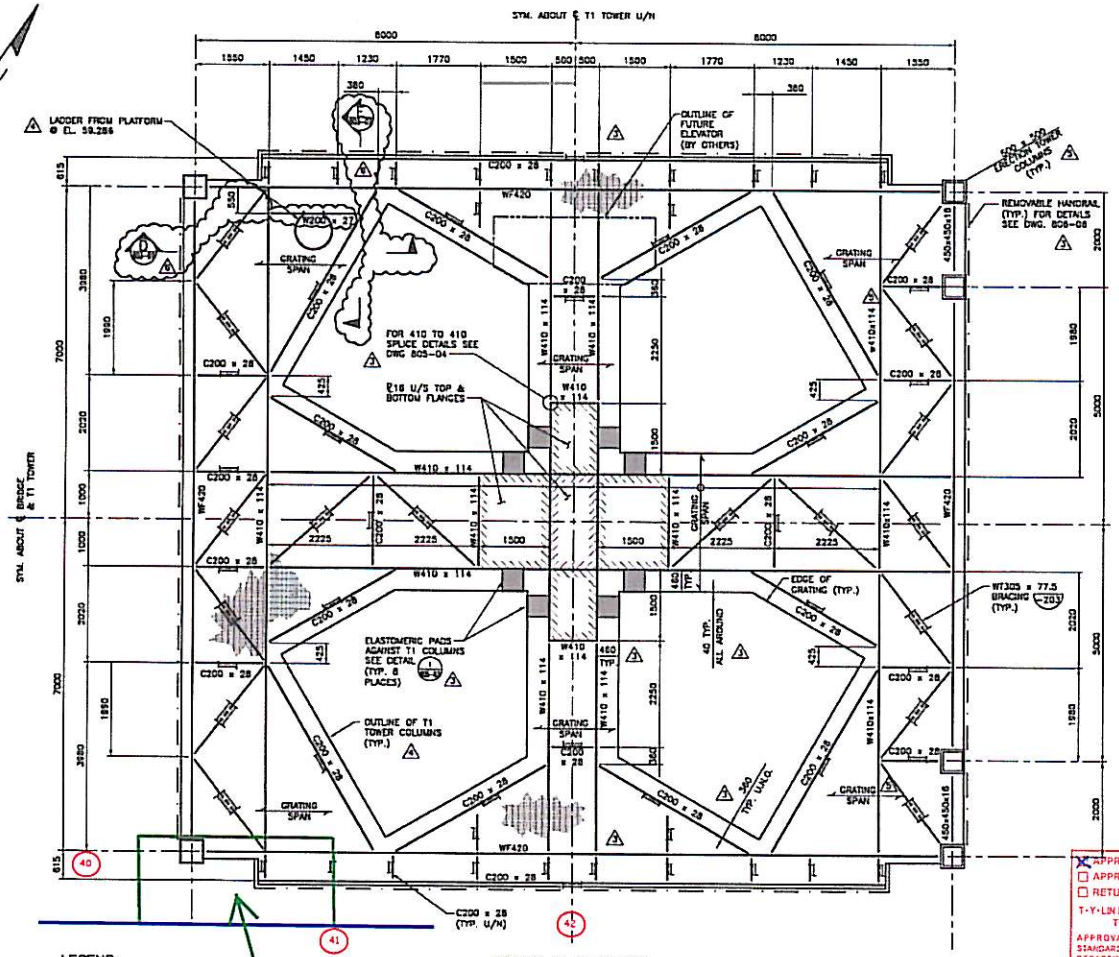
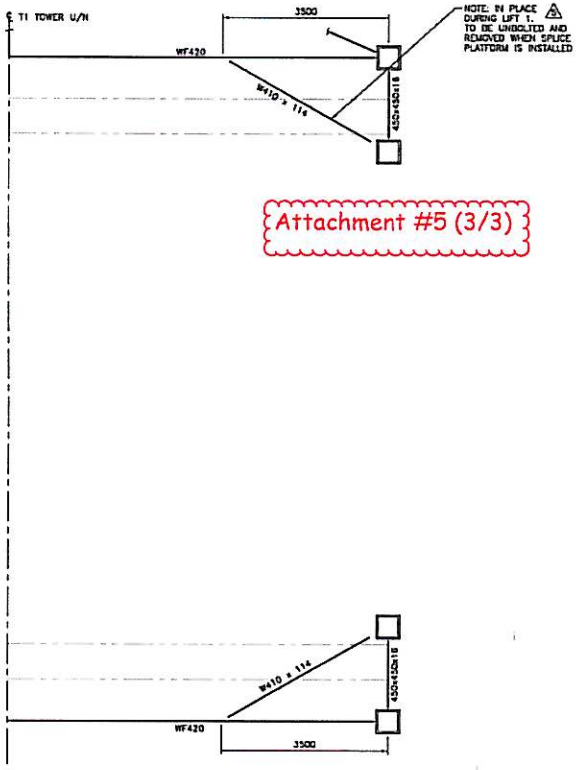


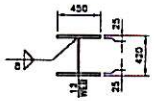
SPLICE #1 PLATFORM
PLAN @ T.O.S. EL. 49.120 U/N
T.O. GRATING EL. 49.152
SCALE 1:50



PLAN @ T.O.S. EL. 49.120 U/N
LIFT 1 CONFIGURATION
SCALE 1:50

Attachment #5 (3/3)

LEGEND:



BEAM WF420

NOTES:

1. FOR T1 ERECTION TOWER GENERAL NOTES SEE DRAWING 801-01.
2. FOR CONNECTION DETAILS SEE DRAWING 805-01 TO 805-05.
3. GRATING SHALL BE WEBFORGE WA325/1-P, 32 x 5. GRATING SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

0 1:50 2m

APPROVED
APPROVED AS NOTED
RETURNED FOR CORRECTION
T-Y LIN INTERNATIONAL AND MOFFATT & NICHOL, A JV
THE EAST SPAN BRIDGE DESIGN TEAM
APPROVAL PURSUANT TO SECTION 5-1.02 OF THE STANDARD SPECIFICATIONS OF THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION, OF A SPECIFIC ITEM SHALL NOT INDICATE APPROVAL PURSUANT TO SECTION 4-1.03D ON ASSEMBLY OF WHICH THE ITEM IS A COMPONENT.
REVIEWED BY
SEP 16 2008
DATE

NO.	DATE	ISSUE / REVISION	DRAWN	CHK'D	DESIGN	APP'D
6	SEP. 5/08	REVISED AS NOTED	B.K.S.	B.H.	D.H.	B.H.
5	AUG 22/08	REVISED AS NOTED	A.M.	B.H.	D.H.	B.H.
4	JULY 21/08	REVISED AS NOTED	R.G.	B.H.	D.H.	B.H.
3	JUNE 20/08	ISSUED FOR CONSTRUCTION TO EL. 59.00	W.N.	B.H.	D.H.	B.H.
2	MAY 27/08	ISSUED FOR DETAILING	W.N.	–	D.H.	B.H.
1	FEB. 13/08	RE-ISSUED FOR PRICING – GENERAL REVISION	R.G.	–	D.H.	B.H.

SEAL
C 71828
12/31/2009
CIVIL
STATE OF CALIFORNIA
REGISTERED ENGINEER – CIVIL

DESIGN BY	D.H.
DRAWN BY	R.G.
APPROVED	B.H.
DATE	JANUARY 2008
SCALE	AS NOTED
BRIDGE NO.	34-0006L/R
KILOMETER NO.	13.2/13.9
CONTRACT NO.	04-0120F4

CLIENT
American Bridge / FLUOR
A JOINT VENTURE
Klohn Crippen Berger

PROJECT
SAN FRANCISCO OAKLAND BAY BRIDGE
EAST SPAN SEISMIC SAFETY PROJECT

TITLE
SELF-ANCHORED SUSPENSION BRIDGE
T1 ERECTION TOWER
PLANS – SHEET 1

PROJECT NO.	DWG. NO.	REV.
P01506A03	802-01	6

CANCEL PRINTS BEARING PREVIOUS