

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

ENGINEER'S DAILY REPORT

LAN Engineering Consultant *JK 6-17-08*

REPORT NO.	544	DATE	June 09, 2008	<i>JK</i> T W T F S S (DAY)
NORMAL WORK HOUR:	START: 6:00AM	STOP: 3:30PM	WEATHER:	CLEAR 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:

- ❖ **Submittal Status Meeting (Caltrans – T.L.LIN – PB)**
 - Received the status of the TYLIN and PB Shop Submittals.
 - Submitted an updated status of the PB responses to the submittals at the meeting.
 - Covered the Contractor Priority List for the submittals also.
- ❖ **MEP Shop Drawing Work.**
 - Updated the Priority submittal list.
 - Worked on the master penetration list (OBG – CCO59).
- ❖ **CCO # 42S1 CRM Review.**
 - The CRM that was not completed last week was cancelled this week by ABF.
- ❖ **Cable Light Fixture Prototype Submittal Review & Comment.**
 - Inspected the prototype fixture and submitted observations and comments.
 - Attached is a copy of my comments on the fixture submitted for review.

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

Work hours 0530-1730 – 10 hours regular

Attachments:

1. Cable Fixture Prototype Review comments.
2. Email from ABF about the CCO 42S1 CRM Review Cancellation.
3. Email from PB about the CCO 42S1 CRM Review Cancellation.
4. Shop drawing priority status Lists (Tower/OBG).

SIGNATURE

Name

Michael F. Travis

TITLE

Electrical Engineer – LAN Engineering

REC'D *08 JUN-23 #005124

Project Description: SAS SFOBB Project

EA #: 04-0120F4

**SUBJECT: Prototype Fixture with three types of access (No remote ballast included)
Submitted for review and comments.**

The following are my observations and comments:

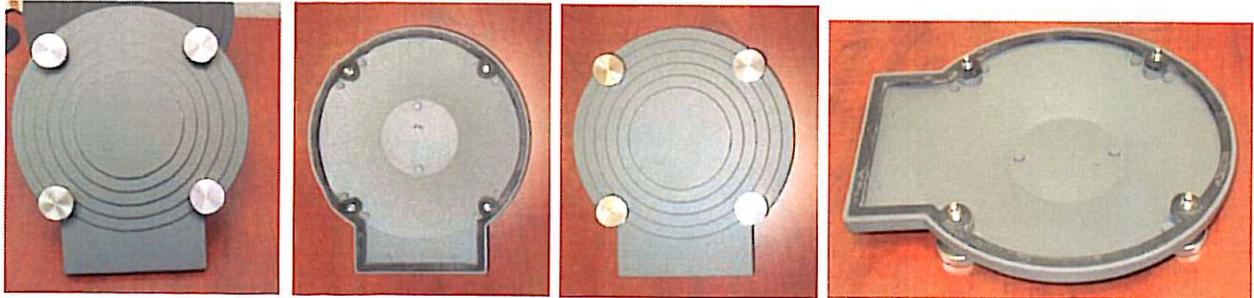
- **General Fixture Comments:**
 - Fixture housing is heavy duty and looks capable of withstanding the elements at the locations indicated in the contract.
 - Due to the weight of the fixture and the attachment to the cable stanchions the adjustable mounting brackets need to be capable of supporting the fixtures. This needs to be verified.
 - Since the remote ballast was not submitted with the fixture it needs to be compatible to the mounting location shown on the plans and properly interconnected to the fixture housing. I do not believe the ballast box should be part of the mounting support of the fixture.
 - Since there are two types of mounting requirements for the fixtures (Up-lighting & Down-Lighting) the accessibility for re-lamping will be different at these two locations. The up-lighting fixture should be re-lamped from the removable lens end of the fixture. The down-lighting needs to be re-lamped from the rear access of the fixture.
 - Fixtures are required to be UL listed for use in wet locations.



- **Rear access review comments (three types: knurled knob plate, knurled knob with handle/lanyard attachment & latches only).**

ATTACHMENT # 1 (2/5)

- Knurled knob access plate comments.
 - This looks like the standard type of closure for the fixture. It has no access holes except for the securing bolts. But no attachment of the lamp base to it.

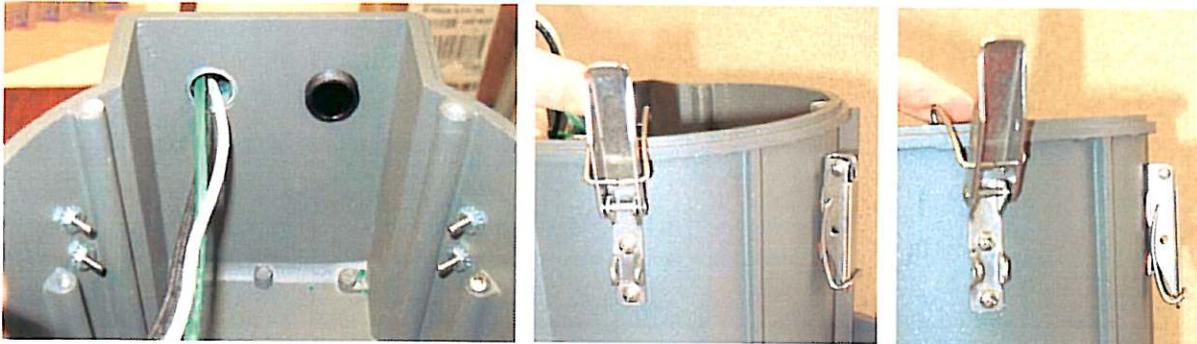


- Knurled knob access plate comments with handle/lanyard attachment.
 - This looks like the standard type of closure for the fixture with the addition of the handle/ lanyard support and attachment of the lamp base to the inside surface.
 - Concern about the hole through the plate to connect the handle to the lamp support bracket. There does not seem to be properly sealing to prevent moisture from entering the housing.
 - Concern about how the mounting bracket for the lamp socket is attached. Vibration or use of the handle could cause the securing hardware to work loose.
 - This would be the best type of access plate provided the concerns can be addressed and resolved. Mounting the internal bracket separate from the external handle.



ATTACHMENT # 1 (3/5)

- Latches only access plate comments with handle/lanyard attachment.
 - The holes for the knurled knob bolt are plugged. This could be a possible problem for future leakage into the housing.
 - The latching bracket is not sealed tight enough to prevent moisture from entering the housing. The ridges on the back plate prevent a positive seal.
 - The attachment of the handle and the support bracket of the lamp socket do not seem to be secure enough to prevent loosening of the bracket or handle.
 - I do not recommend this type of attachment of the rear plate to the fixture housing.



- Front Access Review Comments (Suspender up-lights).
 - Back access plate is not required for these fixtures types because of lack of accessibility to perform re-lamping on the fixtures from the rear.
 - Re-lamping should be done from the lens access front of the fixture.
 - The lens cover bolts need to be captive to prevent lose of hardware when re-lamping.
 - The lanyard would be required to prevent loosing the lens cover during the re-lamping and maintenance work on the fixture.
 - Need proper gasket for the front lens cover the o-rings installed does not look like it will be sufficient enough to provide a proper seal.
 - Front lens cover has a raise lip on it that could cause a n accumulation of water on the lens surface. This needs to be addressed by the manufacturer. The plans call for a weep hole for these fixtures.
 - The remote ballast for this fixture would be in a different location than the one on the bridge cable. The remote Ballast box should not be part of the mounting structure of this fixture.

ATTACHMENT # 1 (4/5)



- Internal Fixture Comments

- The proper placement of the lamp in the reflector needs to be determined and photometric data needs to be generated to determine fixture distribution footprint. All fixtures need to be fabricated to a uniform distribution type.
- The internal wiring needs to be a proper length to remove the base with lamp socket to a safe working area.
- The internal wiring needs to be properly protected from damage. I would suggest a cable or protective sleeve.
- Conductor/cable disconnect needs to be installed to disconnect the cable/conductors from the remote ballast feed inside the housing.



- Testing/Sampling of custom fixture.
 - A completely operational fixture with remote ballast needs to be turned over to be tested by the Caltrans Lab.
 - The photometric data of the fixture and photometric layout of the safety roadway fixtures need to be submitted for approval.

If there are any questions or comments please let me know. Other reviews and comments are being performed on this type of fixtures so this is not the complete review comment list.

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

ATTACHMENT # 2 (1/1)

Mike Travis

From: Chris Bausone [cbausone@abfjv.com] **Sent:** Mon 6/9/2008 5:55 PM
To: 'King, Nick'; 'Saeed Shahmirzai'; Mike Travis; 'Takaki, Maxwell'; 'Sanei, Abdi'; 'Sandra Michelotti'; 'Garcia, Rocky'; 'Bill Shedd'
Cc: alee@bleyco.com; bpetersen@abfjv.com; schoy@abfjv.com
Subject: RE: CCO 42S1 CRM postponed
Attachments:

Sorry, can't do it this week. ABF/BLI does not expect to complete the necessary work to comply with State letter 1887. Until such time that work is completed, we will not be available to assist in QC/QA of design work.

From: King, Nick [mailto:KingN@pbworld.com]
Sent: Monday, June 09, 2008 10:32 AM
To: Saeed Shahmirzai; Mike Travis; Takaki, Maxwell; Sanei, Abdi; Sandra Michelotti; Garcia, Rocky; Bill Shedd
Cc: cbausone@abfjv.com; alee@bleyco.com
Subject: CCO 42S1 CRM postponed

All,

Part II of the CCO 42S1 CRM is postponed. Anna Lee cannot make it due to time constraints recently imposed upon her that are related to other aspects of this project.

I will be unavailable the following week 6/16/08 thru 6/18/08, other than by teleconference. I propose that we consider having this meeting sometime later this week if we can all make ourselves available.

Nick King

Lead Design/Construction Coordinator

Parsons-Brinckerhoff

Office: 510 808 4610

Cell: 415 412 0821

kingn@pbworld.com

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ATTACHMENT # 3 (1/1)

Mike Travis

From: King, Nick [KingN@pbworld.com] **Sent:** Mon 6/9/2008 10:32 AM
To: Saeed Shahmirzai; Mike Travis; Takaki, Maxwell; Sanei, Abdi; Sandra Michelotti; Garcia, Rocky; Bill Shedd
Cc: cbausone@abfjv.com; alee@bleyco.com
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Nick King

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6/3/2008		Submittal Priority by ABF Requested Due Date		Information Only		Responded / *redline		**Posted		Reviewing		PB color code ID	
CT/IV Status	Reference	Subject	Requested Due Date	Resp. Engineer	Discipline	Date Received	Contract Due Date						
Team china	ABF-SUB-000634R03	Repair Procedure for Closed-rib Welds	12-May-2008	Chris Havel	H	09-May-2008	23-May-2008						
	ABF-SUB-000408R03	OBG - Exterior Plate Details (PL) - Deck Plate Type 10 - LIFTS 1 & 2	09-Jun-2008	Philip He	H	02-Jun-2008	16-Jun-2008						
	ABF-SUB-000381R08	OBG - Exterior Plate Details (PL) - Plate Type 4 - LIFT 1	10-Jun-2008	Victor Altamirano	H	03-Jun-2008	17-Jun-2008						
	ABF-SUB-000423R06	OBG - Rib Stiffener Details (RS) - LIFTS 1 & 2	10-Jun-2008	Victor Altamirano	H	03-Jun-2008	17-Jun-2008						
	ABF-SUB-000424R04	OBG - Exterior Plate Details (PL) - Side Plate Type 5 & 7 - LIFT 1	10-Jun-2008	John Lyons	H	03-Jun-2008	17-Jun-2008						
	ABF-SUB-000425R04	OBG - Exterior Plate Details (PL) - Plate Type 10 - LIFT 1	10-Jun-2008	John Lyons	H	03-Jun-2008	17-Jun-2008						
	ABF-SUB-000427R06	OBG - Side Plate Sub Assemblies (SP) - LIFT 1	10-Jun-2008	Gary Lai	H	03-Jun-2008	17-Jun-2008						
	ABF-SUB-000490R05	OBG - Corner Assembly Details (CA) - LIFT 2	10-Jun-2008	Victor Altamirano	H	03-Jun-2008	17-Jun-2008						
	ABF-SUB-000518R01	OBG - Segment Assembly (SEG) - LIFT 2	10-Jun-2008	Philip He	H	03-Jun-2008	17-Jun-2008						
	ABF-SUB-000556R02	OBG - Segment Assembly Standard Details (SEG, SEGSD)	10-Jun-2008	Victor Altamirano	H	03-Jun-2008	17-Jun-2008						
	ABF-SUB-000692R00	Pier E2 Bearing	10-Jun-2008	Victor Altamirano	H	03-Jun-2008	17-Jun-2008						
Ty by fri	ABF-SUB-000693R00	Shear Key Details	10-Jun-2008	Ajay Sehgal	H	01-May-2008	20-Jun-2008						
	ABF-SUB-000516R04	OBG - Segment Assembly (SEGSD) - Standard Details	10-Jun-2008	Ajay Sehgal	H	01-May-2008	20-Jun-2008						
	ABF-SUB-000559R02	OBG - Segment Assemblies (SEG) - LIFT 7	11-Jun-2008	Alex Schmitt	H	28-May-2008	11-Jun-2008						
	ABF-SUB-000718R00	OBG - Shop Assembly (SA) - LIFTS 7 - 9	11-Jun-2008	Philip He	H	28-May-2008	11-Jun-2008						
Ty ok	ABF-SUB-000516R05	OBG - Segment Assembly (SEGSD) - Standard Details	12-Jun-2008	Alex Schmitt	H	28-May-2008	17-Jul-2008						
	ABF-SUB-000721R00	Manufacturing and Fabrication Self Qualification Audit (MFSQA) for Atlantis Equipment	12-Jun-2008	Ajay Sehgal	H	29-May-2008	12-Jun-2008						
Ty ok	ABF-SUB-000203R04	OBG - Exterior Plate Details (PL) - Bottom Plate Type 6 - LIFT 8	13-Jun-2008	Chris Havel	H	23-May-2008	06-Jun-2008						
	ABF-SUB-000087R17	OBG - Standard Weld Details (WD)	16-Jun-2008	Philip He	H	02-Jun-2008	16-Jun-2008						
	ABF-SUB-000107R05	OBG - Deck Plate Sub Assembly (DP) & Exterior Plate Details (PL) - Plate Type 2 - LIFT 3	16-Jun-2008	Philip He	H	02-Jun-2008	16-Jun-2008						
	ABF-SUB-000140R11	OBG - Exterior Plate Details (PL) & Deck Plate Sub Assembly (DP) - LIFTS 3 & 4	16-Jun-2008	Chris Havel	H	02-Jun-2008	16-Jun-2008						
	ABF-SUB-000570R01	Shear Key Bearing Manual	16-Jun-2008	Ajay Sehgal	H	02-Jun-2008	16-Jun-2008						
	ABF-SUB-000644R01	E2 Spherical Bushing Bearing Manual	16-Jun-2008	Ajay Sehgal	H	02-Jun-2008	16-Jun-2008						
	ABF-SUB-000026R04	OBG - Standard Details (CW) - Counterweight Box Drawings	17-Jun-2008	Chris Havel	H	03-Jun-2008	17-Jun-2008						
	ABF-SUB-000404R04	OBG - Deck Plate Sub Assembly (DP) - Plate Type 10 - LIFT 5	17-Jun-2008	Alex Schmitt	H	03-Jun-2008	17-Jun-2008						
	ABF-SUB-000489R01	OBG - Corner Assembly (CA) - LIFTS 3 AND 4	17-Jun-2008	Alex Schmitt	H	03-Jun-2008	17-Jun-2008						
	ABF-SUB-000517R05	OBG - Segment Assembly (SEG) - LIFT 6	17-Jun-2008	Chris Havel	H	03-Jun-2008	17-Jun-2008						
	ABF-SUB-000708R00	OBG - BIKEPATH STANDARD DETAILS (BK, BKE, BKPL, BKWD, BKX)	20-Jun-2008	Alex Schmitt	H	16-May-2008	05-Jul-2008						
	ABF-SUB-000709R00	OBG - Segment Assembly (SEG) - East & West Lines - LIFT 2	30-Jun-2008	Chris Havel	H	19-May-2008	08-Jul-2008						
	ABF-SUB-000704R00	OBG - Mark Layout Details (L) - LIFT 14	03-Jul-2008	Ajay Sehgal	H	14-May-2008	03-Jul-2008						
	ABF-SUB-000707R00	OBG - Mark Layout Details (L) - LIFT 14W	05-Jul-2008	Ajay Sehgal	H	16-May-2008	05-Jul-2008						
Ty by fri	ABF-SUB-000714R00	Padeye Test Procedure	11-Jul-2008	Bob Brignano	H	22-May-2008	11-Jun-2008						
	ABF-SUB-000716R00	OBG - Shop Assembly (SA) - LIFT 3	12-Jul-2008	John Lyons	H	23-May-2008	12-Jul-2008						
	ABF-SUB-000717R00	OBG - Shop Assembly (SA) - Table OBGs - LIFT 7	12-Jul-2008	John Lyons	H	23-May-2008	12-Jul-2008						
	ABF-SUB-000720R00	OBG - Shop Assembly Details (SA) - LIFTS 9 - 11	18-Jul-2008	Chris Havel	H	29-May-2008	18-Jul-2008						
	ABF-SUB-000723R00	OBG - Crossbeam Layout (L) - CB19	19-Jul-2008	Bob Brignano	H	30-May-2008	19-Jul-2008						

PB TOWER STATUS CHART JUNE 09, 2008

6/3/2008		Submittal Priority by ABF Requested Due Date				Information Only		Responded / *redline		**Posted		Reviewing		PB color code ID	
CT/IV Status	Reference	Subject	Requested Due Date	Respon. Engineer	Discipline	Date Received	Discipline	Date Received	Contract Due Date						
Ty ok	ABF-SUB-000619R00*	TOWER - PLATE SKIN B - LIFT 4	22-Apr-2008	Sanny Know	P	03-Mar-2008	P	03-Mar-2008	22-Apr-2008						
Ty ok	ABF-SUB-000620R00*	TOWER - PLATE SKIN C - LIFT 4	22-Apr-2008	Sanny Know	P	03-Mar-2008	P	03-Mar-2008	22-Apr-2008						
Ty ok	ABF-SUB-000617R00*	TOWER - SKIN PLATE A - LIFT 4	23-Apr-2008	Sanny Know	P	04-Mar-2008	P	04-Mar-2008	23-Apr-2008						
Ty by fri	ABF-SUB-000621R00	TOWER - PLATE SKIN D - LIFT 4	23-Apr-2008	Sanny Know	P	04-Mar-2008	P	04-Mar-2008	23-Apr-2008						
Ty by fri	ABF-SUB-000622R00*	TOWER - PLATE SKIN E - LIFT 4	23-Apr-2008	Sanny Know	P	04-Mar-2008	P	04-Mar-2008	23-Apr-2008						
Ty by fri	ABF-SUB-000672R01	TOWER - Platforms - Lifts 1 & 2	06-May-2008	Michelle Chui	P	22-Apr-2008	P	22-Apr-2008	11-Jun-2008						
Extend 7/18	ABF-SUB-000649R00	TOWER - Façade Plate Details - Face E - Lift 4	16-May-2008	Mohammad Awal	P	27-Mar-2008	P	27-Mar-2008	16-May-2008						
Extend 7/18	ABF-SUB-000650R00	TOWER - Façade - Face E (North) - Lift 4	16-May-2008	Mohammad Awal	P	27-Mar-2008	P	27-Mar-2008	16-May-2008						
Ty by fri	ABF-SUB-000672R03	TOWER - Platform Support - Lifts 1 & 2	27-May-2008	Michelle Chui	P	13-May-2008	P	13-May-2008	02-Jul-2008						
Ty by wed	ABF-SUB-000670R00	TOWER - Single Parts - Lift 2	04-Jun-2008	Aaron Prchlik	P	15-Apr-2008	P	15-Apr-2008	04-Jun-2008						
Ty by wed	ABF-SUB-000670R01	TOWER - Single Parts - Lift 2	04-Jun-2008	Aaron Prchlik	P	28-Apr-2008	P	28-Apr-2008	17-Jun-2008						
Ty by fri	ABF-SUB-000463R01	TOWER - External Struts Type 1 & 3b	06-Jun-2008	Sanny Know	P	23-May-2008	P	23-May-2008	06-Jun-2008						
Ty by fri	ABF-SUB-000672R00*	TOWER - Platforms - Lifts 1 & 2	06-Jun-2008	Michelle Chui	P	17-Apr-2008	P	17-Apr-2008	06-Jun-2008						
Ty by fri	ABF-SUB-000672R02	TOWER - Platform Support - Lifts 1 & 2	06-Jun-2008	Michelle Chui	P	29-Apr-2008	P	29-Apr-2008	18-Jun-2008						
	ABF-SUB-000141R21	TOWER - T1 Tower Weld Details	11-Jun-2008	Mohammad Awal	P	28-May-2008	P	28-May-2008	11-Jun-2008						
	ABF-SUB-000211R18	TOWER - T1 Lift 1 N,W, & E Tower Shafts & So Tower Shaft Internal Diaphragms	11-Jun-2008	Sanny Know	P	28-May-2008	P	28-May-2008	11-Jun-2008						
Ty by fri	ABF-SUB-000262R06	TOWER - T1 Lift 1 East & West Strut Façades	11-Jun-2008	Sanny Know	P	28-May-2008	P	28-May-2008	11-Jun-2008						
	ABF-SUB-000683R00	TOWER - Splice @ 114m - Lift 3	11-Jun-2008	Mohammad Awal	P	22-Apr-2008	P	22-Apr-2008	11-Jun-2008						
	ABF-SUB-000365R07	TOWER - Skin Plate Sub-Assemblies & Diaphragm - LIFT2	12-Jun-2008	Sanny Know	P	29-May-2008	P	29-May-2008	12-Jun-2008						
Ty by fri	ABF-SUB-000464R02	TOWER - Cross Brace and Strut - LIFT 3	12-Jun-2008	Sanny Know	P	29-May-2008	P	29-May-2008	12-Jun-2008						
Ty by fri	ABF-SUB-000469R02	TOWER - Diaphragm Plates - LIFT 3	12-Jun-2008	Michelle Chui	P	29-May-2008	P	29-May-2008	12-Jun-2008						
Ty by fri	ABF-SUB-000470R02	TOWER - Skin Plate B - LIFT 3	12-Jun-2008	Michelle Chui	P	29-May-2008	P	29-May-2008	12-Jun-2008						
Ty by fri	ABF-SUB-000469R02	TOWER - Skin Plate D - LIFT 3	12-Jun-2008	Aaron Prchlik	P	29-May-2008	P	29-May-2008	12-Jun-2008						
	ABF-SUB-000471R02	TOWER - Skin Plate C - LIFT 3	13-Jun-2008	Sanny Know	P	30-May-2008	P	30-May-2008	13-Jun-2008						
	ABF-SUB-000141R14	TOWER - T1 Lift 1 South Tower Shaft - Segments 2 & 3 (Skin Plate Sub-Assembly)	13-Jun-2008	Sanny Know	P	30-May-2008	P	30-May-2008	13-Jun-2008						
	ABF-SUB-000275R06	TOWER - T1 - Face E Strut Façades - LIFT 1	16-Jun-2008	Sanny Know	P	02-Jun-2008	P	02-Jun-2008	16-Jun-2008						
	ABF-SUB-000365R08	TOWER - Skin Plate Sub-Assemblies & Diaphragm - LIFT2	16-Jun-2008	Sanny Know	P	02-Jun-2008	P	02-Jun-2008	16-Jun-2008						
	ABF-SUB-000605R02	TOWER - Skirt Drawings	16-Jun-2008	Sanny Know	P	02-Jun-2008	P	02-Jun-2008	16-Jun-2008						
	ABF-SUB-000686R00	Narrow Gap Improved Electroslag Welding Feasibility Review	16-Jun-2008	Mohammad Awal	P	25-Apr-2008	P	25-Apr-2008	14-Jun-2008						
	ABF-SUB-000687R00	TOWER - TL Drawings - LIFT 3	17-Jun-2008	Sanny Know	P	28-Apr-2008	P	28-Apr-2008	17-Jun-2008						
Extend 7/18	ABF-SUB-000648R00	TOWER - External Struts Type 2 and 3A - Lift 4	18-Jul-2008	Sanny Know	P	26-Mar-2008	P	26-Mar-2008	15-May-2008						
Extend 7/18	ABF-SUB-000647R00	TOWER - Strut Façade - Face A - Lift 4	18-Jul-2008	Sanny Know	P	26-Mar-2008	P	26-Mar-2008	15-May-2008						
Extend 7/18	ABF-SUB-000651R00	TOWER - Façade - Face E (South) - Lift 4	18-Jul-2008	Sanny Know	P	27-Mar-2008	P	27-Mar-2008	16-May-2008						
Extend 7/18	ABF-SUB-000652R00	TOWER - Façade Details - Miscellaneous Parts - Lift 4	18-Jul-2008	Sanny Know	P	27-Mar-2008	P	27-Mar-2008	16-May-2008						
	ABF-SUB-000722R00	TOWER - LIFT 4 TL Assembly Drawings	19-Jul-2008	Aaron Prchlik	P	30-May-2008	P	30-May-2008	19-Jul-2008						