



## cGMP No. 4.01 Passenger Boarding Bridge Relocation

### November 2014 Monthly Update

#### Milestones:

Milestone	Revised Baseline	Last Month's Update	Current Update	Variance from Rev Baseline
Signed GMP from LAWA - PBB Sub Only (1080)	09/10/2013 A	09/10/2013 A	09/10/2013 A	0
Signed GMP from LAWA - Balance of Subs NIC (1910) T2	02/03/2014 A	02/03/2014 A	02/03/2014 A	0
Signed GMP from LAWA - Balance of Subs NIC T3 & T6	12/29/2014	12/29/2014	02/11/2015	-44
Start of Phase 1 PBB Removal (P0300)	11/15/2013 A	10/15/2013 A	10/15/2013 A	0
Start of Phase 2 PBB Removal (A1520)	10/14/2014	12/05/14	11/24/2014A	-42
Begin Phase 1 PBB Foundations (MSP11)	09/15/2014	09/22/2014 A	09/22/2014 A	-7
Substantial Completion (MS2000)	08/24/2016*	9/22/2016	10/24/2016	-62
Final Completion (MS3000)	11/07/2016*	12/07/2016	01/10/2017	-65

\*Delays have pushed PBB's into the Holiday Period. If no work is allowed, these dates will be pushed out.

#### Project Approach:

Turner will begin this project with a two-step approach. The first Phase of the PBB installation (PBB Only) will be the removal and retrofit of the PBB Gates from the Tom Bradley Terminal. After removal, the PBB's will be moved to an on-site lay down area for renovations.

The second Phase of the PBB retrofit project will be installing the retrofitted PBB's at the gates in Terminals 2, 3 & 6. This is a phased reinstallation to allow continued operation of some gates while others are being installed. Turner planed on keeping each gate open as long as possible to have the least amount of impact on LAX operations as efficiently possible. After the reinstallation of the PBB, fixed walkways and testing, the Gate will be reopened as soon as safely possible. The original work plan had the new gate locations being reworked to provide foundations for the retrofitted PBB's while the gates were still in use. The latest LAWA plan after meeting with the Terminal Stakeholders is to close the gates, rework the foundations, install new fixed walkways and install the renovated PBB's all at one time for each gate. No more than (1) gate will be closed at the same time.

#### Previous Month's Progress:

- Gate 23 Punch list corrections continued.
- PBB and FW foundation pothole work was performed at Gates 22 and 28 to explore potential underground obstructions encountered during EMG survey work (re: CD-PBB2-0008R1).

- PBB and FW foundation apron pavement removal for pothole work was performed at Gates 21, 24A and 26 to explore potential underground obstructions encountered during EMG survey work (re: CD-PBB2-0008R1 and CD-PBB2-0014).
- TBIT North Gate PBB removals were performed.
- Gate 22 Notice of Changed Condition (NOCC) was submitted.
- Gate 22 ASR and USR preparation and submission started.
- Terminal 2 gate construction re-sequencing per CD-PBBR-0018.

### **Next Month's Plan:**

- Finish Gate 23 punch list corrective work.
- Gate 22 foundation pothole work (second time).
- Gate 24A foundation pothole work (second time) per CD-PBB2-0014.
- PBB and FW foundation pothole work at Gates 21, 21B and 26 per CD-PBB2-0008R1 to explore potential underground obstructions encountered during EMG survey work.
- Start Gate 28 fixed walkway fabrication.

### **Critical Path:**

Because of the multi-phased approach of the Bridge removal, the critical path of this project originally ran through the second phase of PBB removal, renovation and reinstallation which is set to begin after the holiday season. Due to the gate sequencing and Holiday Season / Special Olympics constraints, the gates will be shut down one at a time in the following sequence: Gate 23, 22, 26, 21B, 24A, 68A – Aft, 69B – Aft, 30, 31B, 32, 33A, 37A and 37B.

During the month of December 2014, CD-PBBR-0018 was issued changing the sequence of Terminal 2 gate construction due to unforeseen utility obstructions encountered at the Gate 24A PBB foundation during pothole work. The revised gate construction sequence per CD-PBBR-0018 is as follows: 23, 22, 26, 21B, 24A, 21, 28, 68A – Aft, 69B – Aft, 30, 31B, 32, 33A, 37A and 37B.

During the month of May 2014, Turner was notified that the 90% design documents for Terminals 3 and 6 would not be ready until Mid-September. Assuming a September 15<sup>th</sup> for T3 and a week later on September 22<sup>nd</sup> for T6, the T6 installation and subsequent gate installations would have been delayed by roughly two months. During the month of June 2014, Turner was notified of a further delay to October 28<sup>th</sup>, which has even further pushed the T6 & T3 gate installations. Even though the foundations are part of the later cGMP's, activities were added for bidding the T3 and T6 foundation work and the submittals were broken out separately for the T3 and T6 work (this was originally planned to be approved with the T2 submittals). These changes are reflected in this update. These changes were sent to LAWA on 6/5/14 for review and to assist in mitigation of delay if possible. A TIA will be formally submitted once all mitigation efforts are exhausted and the drawings are received. The activities added are based on to date experiences.

During the month of December 2014, Turner was informed that the design for T3 and T6 has been put on hold by LAWA. LAWA will share their plans for the T3 and T6 construction in the upcoming month(s).

## **Assumptions:**

The schedule on this project depends on the cooperation of all parties. The following assumptions were made:

- Site access and deliveries will be prearranged and available on the dates scheduled
- The original cGMP Schedule planned for the PBB foundation work to be completed without closing the gates. The revised design requires the gates to be closed for the entire month of the foundation and PBB installation.
- Fire Marshal review is coordinated with Final Inspection.
- Information for design of the walkways (final foundation locations) was to be available 10/13/13 to start submittals on 10/14/14.
- Durations for NIC work is based on assumed design for the work. Actual work and durations will be confirmed and included in the schedule for that work package.
- Inspections will be same or next day requested.
- Final inspection and phased turnover of gates will occur as soon as each gate is complete.

## **Problem Areas / Challenges:**

- Design and construction for interim use of the existing T2 400 Hz (90 KVA) centralized system (re: TO-T2SY-T0020) until the new 400 Hz centralized system is operational. Portable 400 Hz equipment is being used at Gate 23 and is planned for use at future T2 gates until the new 400 Hz systems are operational.
- There is not spare electrical capacity within the existing Terminal 2 electrical system to provide temporary power feeds to the new preconditioned air units for Gates 21, 21B, 22, 23, 24A, 26 and 28. The new preconditioned air units will be energized upon completion of the new electrical switchgear and distribution system under construction as part of the T2 Systems cGMP.
- Potential underground obstructions with PBB and FW foundations which were identified during EMG survey work. Potholing work at Gates 22 and 24A (re: CD-PBB2-0008 and CD-PBB2-0008R1) has exposed underground utility obstructions causing the need to redesign foundation locations.

## **Anticipated Delays:**

- Late start to Gate 23 construction due for PBB foundation redesign and added fixed walkway design (re: CD-PBB2-0006), and anchor bolt conflicts with foundation rebar (re: CPCN No. PBB2-0005.02).
- Gate 23 fixed walkway foundation conflict with unforeseen underground utility conflict (re: CD-PBB2-0016).
- Gate 23 fixed walkway support column design revision due to relocation of foundation to avoid conflict with unforeseen underground utility (re: CD-PBBR-0014).
- Added PBB rotunda column foundation grounding (re: CD-PBB2-0005R1).
- Gate 23 PBB and PWC potable water hose replacement due to existing conditions (re: CD-PBBR-0015).
- The Gate 23 punch list includes PBB and PWC items that Turner has identified as not in contract.
- Gate 24A PBB rotunda column foundation location redesign (re: CD-PBB2-0016), and redesign/fabrication of a new fixed walkway.
- Gate 22 PBB rotunda column and fixed walkway foundation locations redesign (re: CD-PBB2-0019 and CD-PBB2-0019R1), and redesign/fabrication of fixed walkway support columns (CD-PBBR-0027).

## **Changes of Construction Sequences:**

- Redesign of the PBB foundations to remove the need for bollard foundations added in the Terminal 2 PBB 3/7/14 design documents resulted in a re-sequence, and addition of Fixed Walkway foundation construction activities.
- Revision to the gate construction sequence per CD-PBBR-0018 due to foundation underground utility obstructions encountered at Gate 24A.
- Revisions to the gate construction sequence are being considered due to foundation underground utility obstructions encountered at Gate 22 during December 2014 pothole work. The current plan is to have Gate 28 construction follow Gate 23 construction.

**Pending Items and Status Thereof:**

**Permits:**

Permit	Date Pulled
Fixed Walkway Deferred Submittal	9/29/14
Building Permit	9/16/14

**Change Orders:**

Change Order Requests	Submitted	Owner Approval	ROM
CCR PBBR-001 Escorting	1/17/14	03/06/2014	\$13,000
CCR PBBR-0004 2 <sup>nd</sup> Crane & Lift	5/12/14	08/13/14	\$20,321
CCR PBBR-0008 Reinstall 400HZ GPU Cables	5/13/14	08/27/14	\$7,710
CCR PBBR-0010 PBB Schedule Revisions	5/9/14	Pending	2,284,000
CCR-PBBR-011R2 PBB Refurbishment	8/26/14	10/8/14	\$534,106
CCR-PBBR-0016R1 Apron Support of FW Columns	7/16/14	08/13/14	\$10,505
CCR-PBBR-017 Rubber Coin Flooring	4/4/14	5/5/14	\$0
CCR-PBB2-0001R1 Gate Closure Restrictions	7/18/14	Pending	\$0
CCR-PBB2-0002R1 3/7/14 & 4/11/14 Design Docs	5/21/14	6/2/14	\$288,500
CCR-PBB2-0005 PBB Foundation Redesign	7/17/14	Rejected	\$43,277
CCR-PBB2-0006 PBB Additional Potholing	8/25/14	Pending	\$16,519
CCR-PBB2-0013 Pretest PBB Water Supply	12/11/14	Pending	\$7,863

**Time Extensions:**

TIA	Submitted	Owner Approval	Days Requested
TIA #1 (CCR PBBR-0010)	02/09/14	Pending	366
TIA #2 (CCR PBB2-0001R1)	07/17/14	Pending	49

**Non-Compliance Notices:**

Non-Compliance Notice	Date Observed	Date of NCN	Date Corrected	Date Signed Off
None to Date				

**CPCN’s Potentially Delaying Substantial Completion:**

- CPCN No. PBBR 0005R2 T2 Fixed Walkway Design
- CPCN No. PBBR 0006 Baseline Schedule Submittal No 0002-PBBR-0
- CPCN No. PBBR 0010 Schedule Revisions
- CPCN No. PBBR 0011R1 PBB Renovation Additional Work
- CPCN No. PBBR 0013 SUBM-0008 PBBR-0 T2 PBB & Fixed Walkway Design Revisions
- CPCN No. PBBR 0014 T2 Construction Authorization for 12/20/13 Design Documents
- CPCN No. PBBR 0015R1 T3 & T6 Design Docs
- CPCN No. PBBR 0016 Apron Support of Fixed Walkway Columns
- CPCN No. PBBR 0019R2 PCA Unit Replacement
- CPCN No. PBBR 0021 Add Fixed Walkway Foundations
- CPCN No. PBBR-0023R1 PBB Potable Water Hose Replacement (CD-PBBR-0015R1)
- CPCN No. PBBR-0024 Gate 23 Fixed Walkway Support Column Redesign (CD-PBBR-0014)
- CPCN No. PBBR-0025 Gate 23 PBB Punch List NIC Items (CD-PBBR-0017)
- CPCN No. PBBR-0026 Revise Terminal 2 Gate Construction Sequence (CD-PBBR-0018)
- CPCN No. PBBR-0027 Gate 22 Fixed Walkway Redesign
- CPCN No. PBBR-0028 Gate Fits (FD-PBBR-0019)
- CPCN No. PBB2 0001 Gate Closure Restrictions
- CPCN No. PBB2-0004R4 PBB Foundation Grounding (CD-PBB2-0005R1)
- CPCN No. PBB2 0005.001 Electrical Equipment Attachment to PBB Rotunda Column
- CPCN No. PBB2-0005.002 Revise PBB and FW Anchor Bolts and Rebar
- CPCN No. PBB2-0006 6/27/14 Progress Set Design Revisions
- CPCN No. PBB2 0008 Relocate Existing ACAMS Card Readers in T2 Fixed Walkway/PBB’s
- CPCN No. PBB2-0015 Gate 23 Fixed Walkway Foundation UG Utility Conflict (CD-PBB2-0016)
- CPCN No. PBB2-0016 Gate 24A PBB Foundation Utility Conflict Unforeseen Condition
- CPCN No. PBB2-0018 Gate 23 PWC Punch List NIC Items (CD-PBB2-0021)
- CPCN No. PBB2-0019R1 FW & PBB Foundations Utility Conflicts

**Response to Previous Month Update Review Comments**

The December Update is being submitted without comments on the November Schedule Update. The comments from both months will be included in a future monthly update.

**Project Photo’s:**

Not available at this time

## **Schedule Revisions**

Activities Added since last update:

Included in the reports for this update is an additional report, (05 – Added Activities) that identifies all of the activities that were added to the schedule in this period in a revised format. This report is drawn from the P6 schedule with a comparison of the November and December update files. The data used to produce this report is 100% supported by the detail in the (Digger Report) included in this submittal and it only addresses the Added activities and their predecessors and successors.

## **See the Report - Added Activities**

There were 87 activities added to the December update and all were added to address Change Directives, Field Directives, CPCN's and RFI's. A large number addresses the Utility Conflicts and the potholing that is required to resolve the problem. The remaining items address the changes that were made during the construction of Gate 23 and then applied to the remaining gates.

There were 16 activities deleted or replaced from the prior months schedule update (November) and the detail's can be found in the attached (Digger Report). This was done to add more detailed and accurate activity ID numbers and Descriptions. The activities are as follows;

- CDR-0021.20
- CDR-0021.10
- RFI-PBBR-0024
- G23-CDR-0017-10
- CPCN-PBBR-27
- CDR-0020.10
- CDR-0020.20
- CDR-0017.10
- CDR-0017.20
- RFI-PBBR-0024R-10
- CDR-0018.20
- CDR-0018.10
- G22-CDxxxx
- RFI-PBBR-0024-10
- RFI-PBBR-0024R1
- RFI-PBBR-0024R2

This format is for your review and comment and will be used in all future Narratives.