



# LAWA BIM Standards: Procedure – CTA One Page

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## Table of Contents

<b>1</b>	<b>Introduction</b>	<b>1</b>
1.1	Purpose	1
<b>2</b>	<b>HOW TO UTILIZE THE DOCUMENTS</b>	<b>2</b>
2.1	Template Files	2
2.2	LAX Survey Control Network	2
2.3	BIM Submittals	2

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## 1 INTRODUCTION

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This document lists the BIM requirements for any LAWA project whether created in-house or by external consultants, and is both a stand-alone document for staff and consultants to understand LAWA's BIM specific requirements for starting projects, as well as a resource used to seed a project execution plan.

The process of engaging in BIM work at LAWA requires review of this document, as well as Project Execution Planning Instructions, Templates & Worksheets, and a comprehensive understanding and practice of LAWA BIM Standards, all of which combine to define the process of BIM for LAWA projects.

### 1.1 Purpose

Los Angeles World Airports (LAWA) recognizes that Building Information Modeling (BIM) represents a fundamental change to the industry. This change affects the traditional processes and deliverables for planning, architecture, engineering, construction and facilities management.

The goal of Los Angeles World Airports is to integrate BIM from cradle to grave in its organizational, planning, and maintenance departments.

LAWA also recognizes that BIM involves rapidly evolving processes, industry standards and technology. As building information modeling technology advances, LAWA will look forward to integrating those changes into existing processes.

As part of integration of BIM at LAWA, the immediate goal is to take advantage of the information model created during design and construction to enhance and feed into existing and future facilities maintenance systems.

To achieve this first goal, LAWA has adopted these BIM requirements. These requirements apply to LAWA BIM Projects advertised on or after July 1, 2010

Requirements established here are baseline requirements for all BIM projects at LAWA. Any of these requirements may be superseded by Project Contract or the project's specific BIM Project Execution Plan. Keep in mind also, that these processes will update as newer technology and software updates become available that alter or enhance these workflows, processes and requirements.

## 2 HOW TO UTILIZE THE DOCUMENTS

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### 2.1 Template Files

Template files are a critical component for beginning any project at LAWA. The templates ensure that the buildings are in the correct coordinate system and datum (more of that in “LAX Survey Control Network”) so that all utilities, roadways, buildings and airfield elements are designed and built in the correct location.

#### 2.1.1 Revit Template

The LAWA Revit Template is to be used on all projects dealing with vertical construction. The consultant can access/download the **.rvt** file located in the Design and Construction Handbook for each of their projects. These files contain all the necessary content such as fonts, annotation, title blocks (no longer a separate document) and graphics for each project to create a consistent deliverable to LAWA.

#### 2.1.2 Civil3D Template

The LAWA Civil3D Template is to be used on all projects dealing with horizontal construction. The consultant can access/download the **.dwg** file located in the Design and Construction Handbook for each of their projects. These files contain all the necessary content such as fonts, annotation, title blocks (no longer a separate document) and graphics for each project to create a consistent deliverable to LAWA.

### 2.2 LAX Survey Control Network

The purpose of the Survey Control Network is to provide horizontal and vertical control values for current and future projects at Los Angeles International Airport. A new Survey Control Network was established for the Central Terminal Area as of June 2017, for the specific purpose of providing a common physical survey monument (#844) from which all future projects are to be referenced.

The Civil3D file (***LAX\_CTA\_Lower\_Level\_Control\_06\_13\_2017.dwg***) shall be used to establish shared coordinates for all Revit and Civil3D files this is essential for establishing and documenting the location and other important attributes of construction on a project so they are referenced correctly to all other projects. A detailed description of this process is contained in the ***VOL 2-LAWA BIM Requirements - ISSUED-06\_13\_17.pdf***.

### 2.3 BIM Submittals

Submittals are established on the basis of existing design reviews at approximately 30/60/90 percent completion through design. Refer to the BIM Project Execution Plan (BPXP) for further detail.