LAX TERMINAL CORE AND FACADE DESIGN REQUIREMENTS VERSION 3 MAY 16, 2018

<u>THIS DOCUMENT TO BE USED IN CONJUNCTION WITH THE FOLLOWING:</u>
1. DESIGN CONSTRUCTION HANDBOOK (DCH)
2. BIM STANDARDS, INCLUDING LAWA SURVEY (INCORPORATED INTO THE DCH)



- 1. OVERVIEW
- 2. TERMINAL CORE AND FACADE CODE COMPLIANCE REQUIREMENTS
- 3. TERMINAL CORE TO WALKWAY INTERFACE
- 4. TERMINAL FACADES
- 5. SAMPLE / REFERENCE FACADE DETAILS
- 6. TERMINAL CORE INTERIOR

GENERAL NOTES:

- 1. THE INFORMATION IN THIS VERSION SUPERSEDES PREVIOUS VERSIONS
- 2. CONTRACTOR / ARCHITECT TO VERIFY FINISH FLOOR LEVEL ELEVATION
- 3. REFERENCE EXAMPLE DRAWINGS ARE OF TERMINAL 1.5
- 4. SMOKE EVACUATION SYSTEMS TO BE COORDINATED
- 5. WATERPROOFING SYSTEMS TO BE COORDINATED

INFORMATION NOT INCLUDED IN VERSION 3:

- STRUCTURAL ENGINEERING
- MECHANICAL ENGINEERING
- BAGGAGE HANDLING SYSTEMS

PAGE 2 CONTENTS

CHAPTER 1 OVERVIEW

INTRODUCTION

This document provides design intent, Design Guidelines, were recommended criteria, direction and guidance to Project by CPC for full City Council approval. The Development Teams responsible for the Cultural Affairs Commission approved the design, engineering and construction of LAX Design Guidelines in April 2017. Both the Terminal Cores and Facades at Los Angeles Innovation, Grants, Technology, Commerce International Airport (LAX). It is intended and Trade (IGTCT) and Planning and Land for use as a reference tool for architects, Use Management (PLUM) Committees engineers, and contractors in the design, unanimously voted to recommend adoption manufacture and installation of the exterior of the amendments to the LAX Specific enclosure systems of terminal buildings. Plan, including the LAX Design Guidelines, The over arching objective of this document on May 16, 2017. City Council adopted the is to provide the information and guidance amendments to the LAX Specific Plan, necessary so that the combined result of the including the LAX Design Guidelines, on June various terminal modernization programs 7, 2017. and renovation projects is a unified, cohesive This document was prepared with the Central Terminal Area (CTA) building understanding and acknowledgement that aesthetic.

terminal core and facade improvements will The Terminal Core and Facade Design be designed and constructed in phases over Requirements are complimentary to and a multi-year period of time. Each project may have different sponsors, program derived from the principles established in the LAX Design Guidelines which seek to: managers, design and engineering teams and contractors, etc. Some projects will be Create a Unified Airport Campus applying these guidelines to the design of • Enhance the User Experience new or replacement structures, while others The LAX Design Guidelines were adopted by will be adapting aspects of these guidelines as necessary to accommodate the renovation of existing structures.

the Board of Airport Commissioners (BOAC) on March 2, 2017 as part of their approval of the LAX Landside Access Modernization Program EIR and amendments to the LAX Specific Plan. On March 23, 2017, the City Planning Commission (CPC) and the BOAC. at a joint hearing, adopted modified LAX Design Guidelines as part of the approvals of amendments to the LAX Specific Plan. These amendments, including the LAX

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NON-PROPRIETARY APPROACH

Strict adherence to the design intent of The information contained in this document these requirements will maximize the includes "Elements of Continuity." Elements collective potential of individual projects of Continuity shall be incorporated into the to achieve the objectives described above. design in a manner that when constructed Maximizing visual coherence and cohesion it shall match exactly the applicable is not intended to come at the expense of requirements contained in this document. open-source competitive bidding. To that An example of an element of continuity end, a non-proprietary approach has been would be the façade glazing. The qualities used in developing these requirements. and characteristics of the glass such as Where specific product references occur, color, reflectance, shading co-efficient, STC they are intended to communicate one or rating, etc. as well as the pattern language of more desirable aesthetic characteristics the fenestration have been carefully studied, such as material, color, finish, texture, etc. reviewed and approved and are applicable to and are not intended to communicate a strict the design of all cores and terminal facades. preference or requirement for the use of one In this case, LAWA will review and approve the manufacturer over another. Terminal Core and Facade designs for strict adherence to the requirements contained in this document. Failure to comply with these requirements will result in non-approval.

APM SYSTEM BRANDING & IDENTITY

The Automated People Mover (APM) system will have a unique identity. It will be seen as **Table 1: Elements of Continuity** the primary passenger, airline and airport employee access mode, distinct from those historically available. The APM brand will be physically identifiable through the use of identity graphics, color, finishes, materials, and repetitive architectural elements which will work in concert to create a physical environment where the APM system is easily recognized and intuitively navigated. At the terminal, this means Elements of Continuity uniquely associated with the APM brand will be repeated within each APM Core in order to visually communicate that this terminal location is an APM system access point.

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ELEMENTS OF CONTINUITY

Mullions:	Color	
	Shape and Profile	
	Vertical and Horizontal Spacing	
Glass:	Color	
	Reflectance	
	Shading Coefficiency	
	Transparency	
Doors:	Automatic Sliding	
Height:	Maximum Facade Height	
APM Brand:	To Be Determined	

PAGE 6 LAX TERMINAL CORE AND FACADE DESIGN REQUIREMENTS REFERENCE LAX DESIGN GUIDELINES

LAX DESIGN GUIDELINES

Project teams are expected to familiarize themselves with the purpose, vision and goals contained in the LAX Design Guidelines which are applicable to the Terminal Core and Facades Projects. The Design Guidelines communicate the airport's values regarding the built environment and describe project requirements organized in the following categories: Architecture and Urban Design; Streetscape, Landscape, and Public Realm; Sustainability; and the Planning and Implementation Process.

2.0 Architecture and Urban Design

2.4.5 Glazing, Materials and Color Palette

Objective

The use of materials and color can be utilized to create a uniform and integrated setting.

Guidelines

- Within the CTA, retain the visual character, of materials (i.e., concrete, glazed ceramics, clear glazed, finishes (smooth toxitures, mattes, glazey ascente), and paletize (light value, cool hue, low chroma) to reflect the modern, technical, and surwashed regional character of Southern Calforna as expressed in the original conception of the CTA.
- 2. The color palette for future projects in the CTA should not compete with other existing elements of color such as the Therme Building lighting. Light Pylons, or Light Bands, and should be neutral in tone and not detract from the overall visual integration of facilities.
- Glazing should be transparent.
- 4. Materials should be resistant to graffti and varidalism and require minimum maintenance. Any grafts films or coatings should be used to protect glass surfaces and other finish materials such as the or concrete.



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LAX DESIGN GUIDEUNES





Gewers, Kuhn & Kuhn - Mero-Tak

2.16

2.4.7 Vertical Circulation

Objective

Vertical circulation is a key element by which users access multiple levels of a building or structure. This section applies to vertical circulation for APM and terminal area garages.

Guidelines

- New vertical circulation cores within the CTA garages should be consistently designed.
- Vertical circulation elements can be differentiated between CTA garages, terminal cores, and all other cores, including APM cores, however they ancuid be consistently designed within a project.
- Vertical circulation elements should be visible, readily identifiable, and clearly marked with the appropriate signage and wayfinding so that visitors can easily find and access these entry points.
- The use of clear and translucent materials with metal panels is encouraged for vertical circulation elements.



LAX DESIGN GUIDELINES

Union Square, Aberdeen - The Light Lab



LAX DESIGN GUIDELINES SAMPLE PAGES

OVERVIEW CHAPTER 1

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NOTES: IMAGE DEPICTS SOUTH FACING FACADE

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TERMINAL FACADES CURRENT DESIGN CONCEPT

OVERVIEW CHAPTER 1

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OVERVIEW CHAPTER 1

CHAPTER 2 TERMINAL CORE AND FACADE CODE COMPLIANCE REQUIREMENTS

PAGE 10 LAX TERMINAL CORE AND FACADE DESIGN REQUIREMENTS



FIGURE 2.1 **TYPICAL SECTION AT BUILDING CANTILEVER** B. The floor of the building overhang will

CODE REQUIREMENTS PERTAINING TO PEDESTRIAN WALKWAYS CAN BE FOUND IN CHAPTER 3 IN THE BASIS OF DESIGN FOR TERMINAL CORE AND PEDESTRIAN WALKWAY INTERFACES DOCUMENT.

TERMINAL BUILDING/CTA ROADWAY OVERHANG REQUIREMENTS

The Central Terminal Area (CTA) is currently undergoing a significant upgrade as part of the LAX Landside Access Modernization Program and Terminal Development Program. To accommodate the future Automated People Mover (APM) Guideway and allow for passenger travel to each of the Terminals, Pedestrian Walkways will be designed and constructed, terminating at new Terminal Core structures to be developed around the CTA. The Terminal Cores will create a building cross-section that cantilevers above the E. The floor/sidewalk area below the building existing upper level roadway, thus redefining the interior façade location around the CTA.

The intent of this section is to document the required design approach for the new building cantilever sections on the CTA-side only and is based on discussions between Los Angeles World Airports (LAWA) and the Los Angeles Department of Building and Safety (LADBS), and the feedback LADBS received from internal discussions with the Los Angeles Fire Department (LAFD). Where Terminal Buildings cantilever over the CTA roadway, the following provisoins apply:

Design Requirements and Limitations

- A. The building overhang cannot extend curb-side baggage check-in and skycap horizontally beyond the edge of the upper services. level roadway sidewalk. At no point can the G. The upper and lower level roadway's will building overhang extend over a portion of maintain their designation as a Public the upper level roadway utilized by motor Way. vehicles.
- be constructed as a fire-resistance rated horizontal assembly. The floor assembly's fire-resistance rating must be commensurate with the building's construction type. At a minimum, the

horizontal assembly and its supporting structure must provide a 2-hour fireresistance rating.

- C. Automatic fire sprinkler protection will be provided below the building overhang.
- D. Automatic fire sprinkler protection will be provided at the arrivals level. The extent of fire sprinkler protection coverage shall be equal to, and below, the building overhang referred to in section C above.
- overhang on the upper level roadway must be accounted for in the Gross Building Area as defined in the Los Angeles Building Code, and be designated as part of the connected terminal building. The building area increase will be applicable to the floor level adjacent to the upper level roadway only.
- The floor/sidewalk area below the building overhang must be open to the roadway. Permanent uses or occupancies below the overhang (e.g., concession kiosks, enclosed office areas) will not be permitted unless specifically approved by LADBS/ LAFD. This provision in no way prohibits

TERMINAL CORE TO WALKWAY INTERFACE

CHAPTER 3

TERMINAL CORE & PEDESTRIAN WALKWAY STRUCTURE

One of the more challenging interfaces and on the east by Terminal 6. Both terminals associated with the Work is that which are the subject of potential airline sponsored occurs between the vertical circulation core modernization programs which are on and the pedestrian walkway which connects differing timelines. the terminals to the APM. The objective is to The work of project teams occurring on achieve the seamless integration of core and both sides of any interface boundary with walkway.

Two Teams/Two Timelines: The Core, anticipate and include necessary collaboration and coordination efforts to ensure seamless designed by one team, is intended to structurally support the pedestrian walkway integration between projects is achieved. designed by another. The interface is further A document entitled "Basis of Design for complicated by the timing of design and Terminal Core and Pedestrian Walkway construction. In most cases, the APM core Interfaces" has been developed to will be designed and constructed before the communicate general obligations, as well walkway structure is designed and installed. as more specific requirements related to Appropriate accommodations must be made core locations, architectural approach, to accept and support the future walkway building systems, building code and other structure which may include, but are not requirements. Detailed information is necessarily limited to the following: provided to Core and Pedestrian Walkway • Structural capacity to accommodate Designers regarding the approach to structural support and loading. bearing of the pedestrian walkway

- structure at identified locations
- Expansion joint(s) sized to accommodate included as a part of this section and is of normal building movement, as well as and Walkway
- Knock-out panels allowing a portion of the exterior enclosure to be easily removed for pedestrian walkway installation

In some cases, the Core project also requires The plan diagrams shown in this section are interface and coordination with separate diagrammatic in nature and are intended terminal modernization programs and to show the general organization and renovation projects. For example, the T5.5 arrangement of core elements, as well as Core is bounded to the west by Terminal 5 minimum circulation requirements.

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a concurrent or planned project should

For convenience, the basis of design is critical importance to the interface objective. anticipated seismic activity of the Core There is an expectation that lessons will be learned from the design and construction of each core which may cause the Basis of Design to be revised. Project teams should verify they are using the most recently published edition of the document.

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TERMINAL CORE INTERFACE CHAPTER 3

PAGE 14 LAX TERMINAL CORE AND FACADE DESIGN REQUIREMENTS TERMINAL ELEVATION





01 TERMINAL ELEVATION BEFORE APM

REFER TO DETAIL SHEET FOR TYPICAL CURTAIN WALL DETAILS

- 1. CONFIRM EXTENT OF "FRAMED OPENING" LOCATION VARIES PER CORE
- 2. KNOCK-OUT PANEL LOCATIONS VARY PER CORE FOR PEDESTRIAN WALKWAY CONNECTION
- 3. TERMINAL ELEVATION 01 AND 02 ILLUSTRATE THE REQUIRED FACADE CONDITION PRIOR TO AND AFTER PEDESTRIAN WALKWAY INSTALLATION.

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02 TERMINAL ELEVATION AFTER APM

FACADE TYPE I	GL-01
FACADE TYPE II	GL-02
FACADE TYPE III	GL-03
FACADE TYPE IV	MS-01
FACADE TYPE V	MT-01

TERMINAL CORE INTERFACE CHAPTER 3

PAGE 15 LAX TERMINAL CORE AND FACADE DESIGN REQUIREMENTS CORE TO WALKWAY INTERFACE - ENLARGED PLAN DETAIL



02 ENLARGED PLAN BEFORE APM

01 ENLARGED PLAN COMPLETED APM

LAX TERMINAL CORE AND FACADE DESIGN REQUIREMENTS BASIS OF DESIGN FOR TERMINAL CORE AND PEDESTRIAN WALKWAY INTERFACES

A. GENERAL

- 1. Terminal core teams will be responsible 1. The curtain wall at the Terminal Cores for the design and construction of the will be designed so that a portion of terminal cores. the system can be disassembled and replaced by the APM Developer when the 2. Terminal cores will be available to the Pedestrian Walkway is constructed. The APM Developer to install the Pedestrian APM Developer will design and construct Walkway no later than December 31, 2021. the replacement curtain wall to match 3. APM Developer will be responsible for the the appearance, materiality, fit, form and design and construction of the pedestrian function of the Terminal Core curtain wall.
- walkways.
- 2. The Terminal Cores will provide a knock-4. The Pedestrian Walkway will be supported out for the Pedestrian Walkway expansion on the Terminal Core. There will be no joint. The expansion joint and joint covers columns on the Terminal sidewalk. will be provided by the APM Developer.

B. TERMINAL CORE LOCATIONS

- 3. The APM Developer will provide automatic sliding glass doors at the Terminal Core 1. The Terminal Core finish floor elevation interface, but within the Pedestrian at each Pedestrian Walkway interface is Walkway. All power, security, etc. shall be nominally 141'-6" amsl, other than at the supplied from the Pedestrian Walkway by TBIT interface which is anticipated to be the APM Developer. nominally 144'-1" amsl.
- 4. The APM Developer will be responsible to 2. Geospatial coordinates for the Terminal repair or replace any finishes impacted by Core work points, shown in Figure 1 and the installation of the Pedestrian Walkway. Figure 2 below will be determined by LAWA and provided to the APM Developer prior 5. The APM Party shall remove and replace to December 31, 2021. The Geospatial the fire protection of the APM support coordinates will be tied to the CTA Survey beams in a manner that restores the Control Network as outlined in the LAWA required fire protection and allows the Design and Construction Handbook BIM free movement of the APM Pedestrian Standards. Walkway.

The Basis of Design for Terminal Core and Pedestrian Walkway Interfaces document has been developed to facilitate coordination between the APM Developer and Terminal Core Team. The APM RFP contains a 'mirror' document titled Exhibit 10C: Interface Obligation Exhibit. Both documents contain the same information. For Terminal Core projects, the Basis of Design for Terminal Core and Pedestrian Walkway Interfaces document shall be utilized.

This document to be used in conjunction with the following:

- 1. Design Construction Handbook (DCH)
- 2. BIM Standards, including LAWA survey (incorporated into the DCH)

C. ARCHITECTURAL APPROACH

D. BUILDING SYSTEMS APPROACH

1. All building systems that serve the Pedestrian Walkway are to be designed and constructed by the APM Developer and will be fed from a source other than the Terminal Core (ie. APM station).

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E. CODE APPROACH TO ENSURE CODE COMPATIBILITY BETWEEN PEDESTRIAN WALKWAYS AND TERMINAL CORES

1. The Pedestrian Walkway will be classified 4. The pedestrian walkway shall be rated 1-B by code as a Pedestrian Walkway as per LABC. defined by LABC. Requirements include, 5. If a 2-hr fire barrier at the interface of the but are not limited to:

a. The maximum exterior width of the Pedestrian Walkway will be no greater than 30'-0".

b. 50% of the Pedestrian Walkway vertical exterior cladding is required to be open.

c. Sprinklers are required within the Pedestrian Walkways.

d. Sprinklers are required below the Pedestrian Walkways.

e. Maximum travel distance to exit is limited to 400 feet if items b & c are met.

f. Exit occupant load to be 1 person per 100 sq. ft.

- 2. The Terminal Core will provide egress 7. AASHTO criteria are not applicable to the capacity for 120 occupants from the Pedestrian Walkways. As such, vehicular Pedestrian Walkway. The balance of access of design vehicle H5 and above the egress required for the Pedestrian shall be prohibited on the Pedestrian Walkway will be accommodated by the Walkways. APM Developer. Egress stairs from the Pedestrian Walkway are prohibited along **F. OTHER REQUIREMENTS** the terminal sidewalk.
- 1. The required minimum clear dimension 3. All other components of the APM system from the upper level roadway to the are self-exiting and do not impose egress underside of the Pedestrian Walkways is loads onto the Terminal Core. The APM 15'. station will not egress into the Pedestrian Walkways.

- Terminal Core and Pedestrian Walkway is required, the enclosure shall be provided by the APM Developer. The APM Developer shall design the enclosure to maintain the Terminal Core top of parapet elevation and be compatible with the Terminal Core curtain wall in terms of material, finish and detailing as approved by LAWA at their sole discretion.
- 6. NFPA 130 (Standard for Fixed Guideway Transit and Passenger Rail Systems) is designated to be used for the APM guideway and stations. The Terminal Cores and Pedestrian Walkways are outside of NFPA 130's scope. (Other NFPA sections apply to the terminals and Pedestrian Walkways.)

PAGE 18 LAX TERMINAL CORE AND FACADE DESIGN REQUIREMENTS BASIS OF DESIGN FOR TERMINAL CORE AND PEDESTRIAN WALKWAY INTERFACES

TERMINAL CORE STRUCTURAL SUPPORT AND LOADING APPROACH

- The Terminal Cores will be designed to accommodate both a Pedestrian Walkway whose longitudinal axis is perpendicular (orthogonal) to the face of the Terminal Core as well as a Pedestrian Walkway whose longitudinal axis has a maximum skew of 30 degrees to the face of the Terminal Core.
 The Pedestrian Walkway level will not have columns within the 30' width of the Pedestrian Walkway at the terminal interface. No columns will be located within a 20'-0" depth from this interface point.
 The APM Developer will design and construct elastomeric bearing pads on the
- construct elastomeric bearing pads on the 2. Terminal Cores will include one Pedestrian support ledge beams for the Pedestrian Walkway bottom support ledge beam at Walkway: Teflon or similar slider pad to the Pedestrian Walkway interface location minimize friction (friction coefficient that will allow longitudinal free movement = 0.10 or less); shims as required; of the Pedestrian Walkway while also seismic snubbers: and ultimate restraint allowing the Pedestrian Walkway's mechanism. vertical loads and transverse loads to be 5. The top of steel for the bottom ledge beam supported by the terminal building. The will nominally be 2'0" below the Pedestrian support ledge beam shall be capable of Walkway finish floor elevation. The fully supporting the Pedestrian Walkway centerline of the bearings shall be located to the maximum loads indicated in Figure 14'-0" from the centerline of the Pedestrian 2 below.



FIGURE 1 BOTTOM SUPPORT LEDGE PEDESTRIAN WALKWAY PLAN

- 5. The top of steel for the bottom ledge beam will nominally be 2'0" below the Pedestrian Walkway finish floor elevation. The centerline of the bearings shall be located 14'-0" from the centerline of the Pedestrian Walkway, measured perpendicular to the Pedestrian Walkway centerline. Where the Pedestrian Walkway is at an angle to the terminal, the APM Pedestrian Walkway end will be shaped such that loads are transferred to the centerline of the ledge beams, as shown in Figure 1.
- 6. The bottom ledge beam will be designed based on the assumption that the Pedestrian Walkway will be entirely supported at the bottom. The maximum and minimum structural loads and the maximum longitudinal movement at the Terminal Core bottom supports shall be within the ranges set forth in Figure 2.

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Diagonal Condition: Pedestrian Walkways at maximum 30-degree skew to the Terminal Core (TVC), maximum 140' span

			0			1 11	
	Bottom Loaded Force						Ped Walkway Long Displ.
		(per bearing)					
	Ver	rtical	Transverse		Longitudinal		
	(k	ips)	(kips)		(kips)		
Bottom Support Point	С	D	С	D	С	D	
Dead Load D	320	240	85	65	30	25	N/A
Live Load L	160	120	50	40	20	15	N/A
Earthquake Ex (±)	91	114	212	159	10	10	Max 0.02H
Earthquake Ey (±)	76	120	212	159	10	10	Note 8

Perpendicular Condition: Pedestrian Walkways are orthogonal to the Terminal Core (TVC), maximum 172' span

Bottom Loaded Force (per bearing)					Ped Walkway Long Displ. (in)		
		Vertical Transverse (kips) (kips)		Longitudinal (kips)			
Bottom Support Point	С	D	С	D	С	D	
Dead Load D	350	350	15	15	35	35	N/A
Live Load L	175	175	5	5	20	20	N/A
Earthquake Ex (±)	128	128	231	231	10	10	Max 0.02H
Earthquake Ey (±)	168	168	231	231	15	15	Note 8

Notes:

- 1. APM Pedestrian Walkway reactions are based on seismic loading per ASCE 7-10, Eq. 12.8-1, with C_s as defined by section 15.4.1, R=2 and I=1.25.
- 3. Negative vertical load is up.
- 4. EQ loading direction is referenced to the Pedestrian Walkway primary axis, all EQ loads are +/-.
- 5. For vertical earthquake loads, consider opposite orientation occurs simultaneously on support bearings.
- displacements to determine movement at the joint.
- 7. Load combinations are considered per ASCE 7-10, ACI 318 and AISC SPSSB.
- seismic drift (2% drift in the 475-year EQ).
- Pedestrian Walkway Seismic Support Concept.

FIGURE 2 STRUCTURAL LOAD TABLES

2. Terminal Cores (TVCs) shall have the capacity to support the stated reactions. Overall seismic systems shall be designed per ASCE 7-10 Section 15.3.1.

6. Longitudinal displacement is along main Pedestrian Walkway axis and only includes walkway displacement, building displacements shall be added to these

8. In transverse direction, Pedestrian Walkway shall be supported by the Terminal Core (TVC) and must accommodate anticipated Terminal Core (TVC)

9. The APM pedestrian walkway shall be seismically designed and detailed as a single simple span between the TVC and pier. Please refer to Figure 3: APM

TERMINAL CORE INTERFACE CHAPTER 3

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NOTES:

- TERMINAL VERTICAL CORE STRUCTURES SHALL BE DESIGNED TO PROVIDE VERTICAL AND TRANSVERSE SEISMIC SUPPORT FOR THE PEDESTRIAN WALKWAYS. 1
- THE APM PEDESTRIAN WALKWAYS MUST BE DESIGNED AS SIMPLY SUPPORTED SPANS BETWEEN THE TERMINAL VERTICAL CORE AND SUPPORT PIERS AS SHOWN 2.
- HINGE SUPPORT TRANSFERS ALL IN-PLANE (X) SEISMIC LOAD TO WALKWAY PIER. 3.
- BUILDING SIDE SEISMIC JOINT IS SUPPORTED ON LEDGE BEAM ON CORBELS. 4.
- 5. SLIDER SUPPORTS FREE IN X DIRECTION TO RELIEVE SEISMIC AND THERMAL STRESS.
- 6. ULTIMATE STOP MECHANISM MUST BE PROVIDED AT FREE END.
- 7. GUIDED SUPPORTS MUST RESIST PERPENDICULAR WIND LOADS WITH NO MOVEMENT.

APM PEDESTRIAN WALKWAY SEISMIC SUPPORT CONCEPT PLAN



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ELEMENTS PROVIDED BY APM TEAM:

- SUPPORT ASSEMBLY 1.
- ENCLOSURE MODIFICATIONS AS REQUIRED 2.
- 3. PATCH AND REPAIR OF TERMINAL FIREPROOFING
- 4. EXPANSION JOINT COVER
- 5. CURTAIN WALL SUPPORTING FRAME

CHAPTER 4 TERMINAL FACADES

Type IV is used to screen all rooftop equipment In order to create a unifying Central Terminal from public view – a priority of increasing Area (CTA) environment a minimal number of facade types has been developed for use importance given the high elevation above grade at which the APM alignment traverses in composing CTA exterior elevation designs. the CTA which makes much more of this The components of each type combine to equipment visible to arriving and departing produce a cohesive visual effect for a more passengers. Type V is used for soffits, canopy, positive user experience. The location and building side enclosures and areas of prescribed for each type plays an important transition. part in intuitively communicating to airport users terminal building function and supports The distinct features and designated areas to passenger orientation and wayfinding.

which each treatment type is to be applied is described in this section. The mullion system Façade Treatments fall into five (5) distinct of each Façade Treatment Type shall respond categories: to and align with the building's structural grid. The mullion spacing illustrated in this design criteria document assumes a 30 feet column-to-column centerline grid spacing which accommodates a 3' and 6' mullion spacing for Type I and Type II respectively. Where new building structures are a part of the scope, the designer and structural engineer will work to this grid module Type I is applied continuously to upper levels wherever possible. Where site constraints prohibit this arrangement, the facade module may be modified within reason in order to be aligned with the building's structural grid.

Facade Type I:	Curtain Wall With Vertical Fins
Facade Type II:	Curtain Wall
Facade Type III:	Storefront
Facade Type IV:	Mechanical Screens
Facade Type V:	Metal Panel

of Terminal building facades, only interrupted by Type II which visually indicates the location of a Vertical Circulation Core, which terminal users have landside access to all levels of the terminal. The Type III façade treatment runs continuously along the terminal face at both Departures and Arrivals Levels. The maximum transparency associated with this façade type optimizes views of terminal activity from curbside, such as passenger check-in, baggage claim, etc.

PAGE 24 FACADE TYPES

Where terminal renovations require the accommodation of the existing building's structural grid, the designer will adapt the module in order that mullion spacing aligns with the existing structure in a manner consistent with aesthetic effect described herein. LAWA has the sole authority to determine compliance with design criteria requirements.

PAGE 25 LAX TERMINAL CORE AND FACADE DESIGN REQUIREMENTS LANDSIDE FACADE TYPES



NOTES:

- 1. ALIGN CONCOURSE VERTICAL MULLIONS WITH MULLIONS BELOW
- EXTERIOR LIGHTING ILLUMINATION OF FACADE SHALL BE FROM INTERIOR ONLY. 2.
- TERMINAL FACADE WINDOW WASHING METHOD MUST BE DETERMINED IN COORDINATION WITH OSHA AND LAWA FACILITIES AND TECHNICAL SERVICES DIVISION (FTSD). USE OF A LIFT ON THE SECOND LEVEL ROADWAY TO WASH 3. TERMINAL CORE FAÇADE IS PROHIBITED. DAVIT AND SWING STAGE SYSTEM MAY BE USED ON NON-TERMINAL CORE FAÇADE AT DISCRETION OF OSHA AND LAWA FTSD.
- 4. EXTERIOR SIGNAGE / WAYFINDING SHALL BE COORDINATED WITH THE LAWA SIGNAGE AND GRAPHICS TEAM DURING DESIGN, PRODUCTION AND INSTALLATION. AIRPORT TERMINAL EXTERIORS SHALL CONSIST OF AIRPORT BRANDING (I.E., ADDRESS, NUMBERED, OR NAMED). SUBJECT TO LAWA APPROVAL. INTERIOR CORES SHALL BE AIRPORT BRANDED. DIGITAL DIRECTORIES WILL BE THE SOURCE FOR AIRLINE NAMES AND LOCATIONS, SHOPS, DINING AND ALL OTHER AMENITIES.

TERMINAL ELEVATION COMPLETED APM

FACADE TYPE I	GL-01
FACADE TYPE II	GL-02
FACADE TYPE III	GL-03
FACADE TYPE IV	MS-01
FACADE TYPE V	MT-01

PAGE 26 LAX TERMINAL CORE AND FACADE DESIGN REQUIREMENTS AIRSIDE FACADE TYPES



NOTES:

AIRSIDE TERMINAL FACADES SHOULD UTILIZE A 'CALM COLOR PALETTE' THAT IS NEUTRAL IN TONE CONSISTING OF METALLIC GRAY AND SILVER EXTERIOR MATERIALS AND GLAZING. 1.

2. THE COLOR PALETTE SHOULD BE RESPONSIVE TO AND NOT DETRACT FROM THE CTA'S OVERALL COHESIVENESS.

3. SAMPLE ELEVATION FROM T1.5 PROJECT, COLOR PALETTE INDICATED FOR REFERENCE ONLY.

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AIRSIDE TERMINAL ELEVATION

PAGE 27 LAX TERMINAL CORE AND FACADE DESIGN REQUIREMENTS FACADE TYPES



GL-01 TYPICAL

1/4" OPTIWHITE HS VRE-65 #2 1/2" AIR SPACE 1/4" CRYSTALGRAY HS 0.060 CLEAR INTERLAYER 1/4" OPTIWHITE HS

PRELIMINARY PERFORMANCE DATA: VLT: 44% R OUT: 28% WINTER U: 0.29 SUMMER U: 0.26 SHGC: 0.38 LSG: 1.16

GL-02 ENTRY / CORE

Pillin -

P-6 n

1/4" OPTIWHITE HS VRE-65 #2 1/2" AIR SPACE 1/4" OPTIWHITE HS 0.060 CLEAR INTERLAYER 1/4" OPTIWHITE HS

PRELIMINARY PERFORMANCE DATA: VLT: 62% R OUT: 29% WINTER U: 0.29 SUMMER U: 0.26 SHGC: 0.40 LSG: 1.55





GL-03 ARRIVAL / DEPARTURE

1/4" OPTIWHITE HS

1/2" AIR SPACE 1/4" OPTIWHITE HS 0.060 CLEAR INTERLAYER 1/4" OPTIWHITE HS

PRELIMINARY PERFORMANCE DATA: VLT: 82%

R OUT: 15% WINTER U: 0.45 SUMMER U: 0.47 SHGC: 0.79 1.04 LSG:

MS-01 MECH SCREEN

2" DEEP VERTICAL TUBE BLADE 8" SPACING 5% OPENNESS MATTE LIGHT GREY FINISH

NOTE: FOR ENCLOSED ROOFTOP MECHANICAL ROOMS, PROVIDE MS-01 IN FRONT OF EXTERIOR ENCOSURE.

NOTE : GLASS PERFORMANCE VALUES MAY CHANGE AS REQUIRED BY ENERGY MODEL

MT-01 METAL PANEL

DURANAR BRIGHT WHITE (UC55026)



1.

PAGE 28 FACADE TYPE I (TERMINAL)





VERSION 3

BETWEEN CORE AND ADJACENT HEADHOUSE

03 ELEVATION

02 SECTION

PAGE 29 FACADE TYPE II (ENTRY / CORE)



01 AXON

PAGE 30 LAX TERMINAL CORE AND FACADE DESIGN REQUIREMENTS FACADE TYPE I (TERMINAL)



11 SECTION FACADE TYPE I TERMINAL FACADES



PAGE 31 LAX TERMINAL CORE AND FACADE DESIGN REQUIREMENTS FACADE TYPE II (ENTRY / CORE)

21 SECTION FACADE TYPE II TERMINAL FACADES CHAPTER 4

PAGE 32 LAX TERMINAL CORE AND FACADE DESIGN REQUIREMENTS DEPARTURES LEVEL ROADWAY



PAGE 33 LAX TERMINAL CORE AND FACADE DESIGN REQUIREMENTS



2'-6"



CONCEPT DETAIL B **GRATING AXON DIAGRAM**

TERMINAL FACADES CHAPTER 4



PAGE 34

PAGE 35 LAX TERMINAL CORE AND FACADE DESIGN REQUIREMENTS DEPARTURES LEVEL ROADWAY - VENTILATION OPENING

MATERIAL DESCRIPTION

WIRE:	0.130" V PROFILE WIRE
SLOT:	0.130"
ROD:	0.105" X 1.00" STRIP
ROD SPACING:	1" O.C.
FINISH:	ANTI-SKID

PRELIMINARY PERFORMANCE DATA:

COEFFICIENT OF FRICTION (DRY):	101
COEFFICIENT OF FRICTION (WET):	72
MAXIMUM LOAD:	1200 PSF
MAXIMUM DEFLECTION:	1/16"
AIR FLOW PRESSURE DIFFERENTIAL:	.0035 PSI



NOTE :

COEFFICIENT OF FRICTION WAS EVALUATED USING ASTM E303 (2013)

MAXIMUM LOAD AND FLOW RATES ARE APPROXIMATE REPRESENTATIONS OF REALITY. THE SIMULATIONS ARE SIMPLIFIED NUMERICAL EXPERIMENTS WITH A LIMITED SCOPE OF INPUT AND
 OUTPUT VARIABLES. ACTUAL PHYSICAL RESULTS MAY DIFFER AT EACH TERMINAL

STAINLESS STEEL GRATE SAMPLE

PAGE 36 LAX TERMINAL CORE AND FACADE DESIGN REQUIREMENTS DEPARTURES / ARRIVALS LEVEL - SLIDING DOORS







NOTE 1. MINIMIZE FRAME THICKNESS

2. ASSA ABLOY - BESAM SL500 OR SIMILAR, PER DCH GUIDE SPECIFICATION SECTION 08 42 29 - SLIDING AUTOMATIC ENTRANCES


CHAPTER 5 SAMPLE / REFERENCE FACADE DETAILS

THIS CHAPTER GRAPHICALLY ILLUSTRATES THE CONCEPTS FOR FAÇADE ORGANIZATION, EXTERIOR ENCLOSURE SYSTEM DETAILS, SOLAR STUDY DIAGRAMS, AS WELL AS A NARRATIVE DESCRIPTION AND GRAPHIC REPRESENTATION OF THE EXTERIOR ENCLOSURE SYSTEM BASED ON AN ASSUMED 15' GRID MODULE.

PAGE 38 LAX TERMINAL CORE AND FACADE DESIGN REQUIREMENTS OVERALL ELEVATION



TERMINAL ELEVATION

FACADE TYPE I	GL-01
FACADE TYPE II	GL-02
FACADE TYPE III	GL-03
FACADE TYPE IV	MS-01
FACADE TYPE V	MT-01

NOTE:

VERTICAL FINS ONLY OCCUR AT FACADE TYPE I, TYP. •

PAGE 39 LAX TERMINAL CORE AND FACADE DESIGN REQUIREMENTS DETAIL SHEET



ALT. ANCHORAGE DETAIL





SFO INTERNATIONAL TERMINAL - SOM

SAMPLE REFERENCE CONCEPT DETAILS CHAPTER 5

PAGE 40 LAX TERMINAL CORE AND FACADE DESIGN REQUIREMENTS SOLAR STUDY





NORTH TERMINALS (SOUTH FACING)

NOTE :

- SUN PATH DIAGRAMS (ABOVE) ILLUSTRATE CONDITIONS OF EXCESSIVE SOLAR GLARE ALONG THE NORTH AND SOUTH FACADES IN EARLY MORNING AND LATE AFTERNOON.
- FIN GEOMETRY (LENGTH AND PROFILE) HAS BEEN DEVELOPED TO MINIMIZE LIGHT CONTRAST FROM THE BUILDING INTERIOR BY CALCULATING DAYLIGHT GLARE PROBABILITY (DGP)

SOUTH TERMINALS (NORTH FACING)

SAMPLE REFERENCE CONCEPT DETAILS CHAPTER 5

PAGE 41 LAX TERMINAL CORE AND FACADE DESIGN REQUIREMENTS TYPICAL FACADE LAYOUT



FACADE TYPE I 30' BUILDING STRUCTURAL GRID



FACADE TYPE II 27' BUILDING STRUCTURAL GRID The steel wind load back up system has verticals at 15'-0" on center with steel tube horizontals spanning between the steel verticals at the necessary elevation to receive the wind load supports.

The curtain wall is either 6'-0" wide units with glass infill or 6'-0" wide units with intermediate verticals at 3'-0" on center.

The vertical mullions are supported for wind load to the steel wind load back-up system. The wind load supports are noted as: "WLC" (wind load at column) and "WL" (wind load at horizontal). For a 30'-0" run there are 3 WLC and 8 WL at the horizontals. This is a primer for what needs to happen at the corners for enclosure supports.

PAGE 42 LAX TERMINAL CORE AND FACADE DESIGN REQUIREMENTS TYPICAL CORNER CONDITION



PLAN LAYOUT A



ENSCK006

If the curtain wall turns the corner to the extent of the high bay ceiling area (with either glass or aluminum panel infill at the returns), there could be a vertical steel wind load back up tube on the diagonal with a diagonal mullion. This works well for installation and seismic drift.

PAGE 43 LAX TERMINAL CORE AND FACADE DESIGN REQUIREMENTS FACADE TYPE I (TERMINAL) SHADING STRATEGIES





GLAZING

 $\underline{\mathsf{NOTE}}$: SHADOW BOX COLOR TO BE GREY, APPLICATION TO FACADE TO BE IN COMBINATION WITH

OPTION 1 SHADOW BOX - FULL COVERAGE SAMPLE REFERENCE CONCEPT DETAILS CHAPTER 5

PAGE 44 LAX TERMINAL CORE AND FACADE DESIGN REQUIREMENTS FACADE TYPE I (TERMINAL) SHADING STRATEGIES



OPTION 2 FRITTED GLASS

OPTION 3 EXTERIOR SCREEN SAMPLE REFERENCE CONCEPT DETAILS CHAPTER 5

PAGE 45 LAX TERMINAL CORE AND FACADE DESIGN REQUIREMENTS FACADE TYPE V (METAL PANEL) - SAMPLE PRECEDENT IMAGES



- EXTERIOR WALL / CORE ENCLOSURE
- 6'-0" MODULE
- ALIGN JOINTS TO CURTAIN WALL MULLIONS
- PPG DURANAR BRIGHT WHITE (UC55026)

SAMPLE REFERENCE CONCEPT DETAILS CHAPTER 5

PAGE 46 LAX TERMINAL CORE AND FACADE DESIGN REQUIREMENTS FACADE TYPE IV - MECHANICAL SCREEN



06 ELEVATION



03 SECTION

SAMPLE REFERENCE CONCEPT DETAILS CHAPTER 5

CHAPTER 6 TERMINAL CORE INTERIOR

PAGE 48 LAX TERMINAL CORE AND FACADE DESIGN REQUIREMENTS TERMINAL CORE INTERIOR

Terminal Cores consolidate heretofore randomly located vertical circulation into convenient, easily identifiable locations and provide access to all terminal levels: security screening check point (SSCP), ticketing lobby, and baggage claim. The Core serves as the primary terminal access points to the APM system. The Core is organized vertically such that the APM pedestrian walkway, SSCP and aircraft gates are essentially on the same level, meaning departing and arriving passengers with pre-printed boarding passes and carry-on bags avoid level changes within the terminal, by-passing ticket lobbies and bag claim. Provisions should be made for future baggage drop locations at Concourse Level.

This chapter seeks to provide the information and guidance necessary to realize the principles of creating a Unified Airport Campus and enhancing User Experience within the Terminal Cores. Typical core dimensions, configuration and quantity of vertical circulation, the location and details of art & advertising as well as general design direction for materials and finishes are set forth to ensure a shared design among Terminal Core projects in the CTA. These have been developed with guidance from subject matter experts and relevant LAWA departments.

The conditions illustrate the base building condition only and do not include representations of the APM Brand & Identity.

PAGE 49 LAX TERMINAL CORE AND FACADE DESIGN REQUIREMENTS TYPICAL CORE

The minimum quantity of vertical circulation The minimum quantity of vertical circulation equipment (escalators/elevators) shown elements includes: two pairs of escalators in these exhibits satisfies the peak demand between each level (7 runs total) with one set associated with APM passenger movements. operating in each direction, public stairs and Where the Terminal Core is intended elevators (4 + 1 service elevator). Typically, to provide general building circulation, there is less demand for the down movement additional vertical circulation analysis is between ticketing and bag claim, therefore only one escalator is required at this location. required to determine the total number of devices required to satisfy the total combined Escalators typically transport passengers demand. Vertical circulation analysis shall at the fastest rate and will likely be used by be submitted to LAWA for review. the majority of terminal users. Elevators will be used by wheelchair and semi-ambulatory passengers, passengers with baggage carts as well as families travelling with small children in strollers.





Vertical circulation equipment should be arranged in a "stacked" configuration in order to achieve an efficient, compact footprint. Placing the up and down landings of escalator pairs on the same side of the floor opening is required as this configuration simplifies circulation patterns and improves wayfinding. The escalator pair providing circulation from APM/SSCP level to ticketing should be located nearest to the exterior face of the terminal and oriented in the direction of the entrance to ticket counter queues. An unobstructed, clear queuing area is required at escalators and elevators. The queuing area associated with the entry and exit of escalator pairs shall be equal in width to the escalator housing approximately 12' wide x 15' deep measured from the face of the escalator floor plate. For elevators, a 15' deep queuing area will be provided equal in width to the total width of the elevator bank

PAGE 50 LAX TERMINAL CORE AND FACADE DESIGN REQUIREMENTS TYPICAL CORE - PLAN DIAGRAM



NOTE:

PUBLIC ART

LAWA staff manages an airport-wide Public Art Exhibitions Program which includes commissioned work, curated changing exhibits, and performances. In terminal buildings, the majority of the work on display is part of changing exhibits. Within the Terminal Core, LAWA requires the inclusion of Public Art Display Opportunities at the APM Walkway Level. Each location will provide for large format two-dimensional work within recessed wall niches having a depth of 8 inches minimum. Large format work is generally defined as artwork greater than 60 inches square.

The Arts Exhibitions Program features changing art exhibitions in a wide-variety of media requiring track lighting systems that provide the ability to add or remove light luminaires, and change their position, angle and beam spread in response to the unique, individual characteristics associated with each exhibition.

Art Display Lighting Systems will be lowheat emitting LED track lighting system technologies able to support fixtures mounted every one (1) foot that are versatile, flexible, and discreet.

ADE DESIGN REQUIREMENTS ART AND ADVERTISING

The selected system(s) should:

- be suitable for a wide range of applications
- provide accent and fill lighting appropriate for each environment
- include a complete set of track heads and lens accessories (spot, narrow flood, flood, and wall wash)
- provide secure dimming controls with a minimum of one (1) dimmer control per every 12 feet of light track and separate dimmable light controls for accent, fill, and work lights.
- be positioned at an optimal, safe distance from artworks based upon the Art Program's review of photometric light studies.
- provide light on exhibit surfaces shall be greater than 20 foot-candles or 200 lux per square foot and not exceed 140 foot-candles or 1,400 lux per square foot. Preferred range is between 40 and 80 foot-candles or 400 and 800 lux per square foot.
- Use of low heat-emitting (LED) technologies (no or ultra-low UV, low Infrared).

HT.





TYPICAL CORE ARRIVALS LEVEL

TYPICAL CORE DEPARTURES LEVEL

PUBLIC ART & ADVERTISING NOTES:

- 1. COORDINATE PUBLIC ART DISPLAY LOCATIONS(S) WITH LAWA ART PROGRAM REPRESENTATIVE.
- 2. WALL SHOULD BE REINFORCED WITH (WOOD) SUB-PANELS FOR MOUNTING ARTWORKS AND FINISHED TO APPEAR SEAMLESS. FINISHED SURFACES SHOULD BE PAINTABLE.
- 3. FOR WALLS, POSITION ELECTRICAL OUTLETS VERY LOW ON THE WALL, HIDDEN IN SOFFITS OR RECESSES OUTSIDE THE DISPLAY AREA, OR MOUNTED IN CEILINGS DIRECTLY ABOVE/ADJA-CENT TO DISPLAY WALLS. FOR FLOORS, BRING ELECTRICAL OUTLETS FORWARD PARALLEL/ADJACENT TO THE GLASS.
- 4. LIGHTING FOR ART WALLS, PROVIDE FOR CEILING MOUNTED TRACK LIGHTING APPROXIMATELY 4' TO 6' FROM WALL WITH LIGHTS TO BE SPACED EVERY 1'. LIGHTING TO PROVIDE 75 FOOT-CANDLES @ 6' HIGH.

ADVERTISEMENT

----- ART / GRAPHIC LOCATION (ABOVE)

ART / GRAPHIC LOCATION





ADE DESIGN REQUIREMENTS ART AND ADVERTISING

PAGE 53 LAX TERMINAL CORE AND FACADE DESIGN REQUIREMENTS TERMINAL CORE INTERIOR - SAMPLE RENDERING



TERMINAL 1.5 CORE SAMPLE RENDERING

- (01) STAINLESS STEEL ELEVATOR DESIGN
- (02) BAFFLE CEILING (2" X 12" @ 9" SPACING)
- (03) WHITE PAINTED METAL PANEL
- (04) WHITE SOLID SURFACE (CORIAN OR EQUAL)
- (05) 12" STAINLESS STEEL FLUSH BASE
- (06) CONTINUOUS 1-1/4" STAINLESS STEEL PROTECTIVE RAIL
- (07) TERRAZZO FLOOR (PER LAWA SPECIFICATIONS)
- (08) CLEAR LOW IRON GLASS (ALIGN MULLION SPACEING WITH EXTERIOR CURTAIN WALL SYSTEM)
- (9) FIRE DOOR WITH INTEGRATED COVER PLATE AT ALL LOCATIONS
- (10) CLEAR LOW IRON GLASS GUARDRAIL AT STAIRCASE WITH GRADUATING MICRO DOT FRIT PATTERN, (ALIGN GLASS JOINTS WITH SOFFIT PANELS)
- $\overbrace{(11)}$ STAIR TO BE CENTERED BETWEEN ESCALATORS
- (12) FLAT WHITE PAINTED GYPSUM BOARD (COLOR PPG BRIGHT WHITE OR EQUAL)
- (13) WHITE MULLIONS (COLOR: PPG DURANAR BRIGHT WHITE (UC55026)
- (14) FACADE TYPE II AT CORE: SECONDARY STRUCTURAL STEEL AS REQUIRED BY CURTAIN WALL ENGINEER / MANUFACTURER
- (15) CONTINUOUS LINEAR AIR DIFFUSER (COLOR: PPG DURANAR BRIGHT WHITE (UC55026)
- (16) TERMINAL CORE RAMPS BEYOND (NOT SHOWN, REFER TO FLOOR PLAN)
- (17) ROUND COLUMN COVER, TYPICAL
- (18) AREA ABOVE VERTICAL CIRCULATION (SHOWN DASHED) TO HAVE LEAST AMOUNT POSSIBLE OF CEILING ACCESSORIES
- (19) 4" RECESSED GYPSUM BOARD SURFACE PUBLIC ART EXHIBIT SPACE

PAGE 54 LAX TERMINAL CORE AND FACADE DESIGN REQUIREMENTS TERMINAL CORE WALL FINISHES



TERMINAL CORE - VIEW LOOKING WEST TYPICAL WALL FINISHES LAYOUT

TERMINAL CORE - VIEW LOOKING EAST TYPICAL WALL FINISHES LAYOUT



CORIAN (GLACIER WHITE)

ART LOCATION OVER DRYWALL

PAGE 55 LAX TERMINAL CORE AND FACADE DESIGN REQUIREMENTS DEPARTURE LEVEL SAMPLE VIEW



PAGE 56 LAX TERMINAL CORE AND FACADE DESIGN REQUIREMENTS PROTECTIVE CORNER GUARD - SAMPLE DETAILS



CORNER GUARD PLAN OPTION 2



CORNER GUARD PLAN OPTION 1

PAGE 57 LAX TERMINAL CORE AND FACADE DESIGN REQUIREMENTS TERMINAL CORE CEILING DESIGN

THE CEILING DESIGN PROVIDES A UNIFORM FIELD OF CEILING ELEMENTS WHICH REDUCE VISUAL NOISE IN THE TERMINAL CORES AS WELL AS MAINTAIN A CONSISTENT AESTHETIC THROUGHOUT ALL OF THE TERMINALS.



- BAFFLE CEILING SYSTEM •
- FACTORY ATTACHED BACKING SYSTEM
- MODULAR 3'X6' GRID SYSTEM
- FIXED (WITH LIGHTS)
- LOOSE / ACCESSIBLE (NO LIGHTS)
- INTEGRAL BENT MATCHING FINISHED END CAP
- CONCEALED LED LINEAR LIGHTING ALIGNED TO BAFFLE DIRECTION
- BAFFLE DIRECTION PERPENDICULAR TO CURTAIN WALL
- ALL ELEMENTS LOCATED ABOVE CEILING BAFFLES TO BE FINISHED IN MATTE DARK GREY

VERSION 3



BAFFLE SYSTEM AXON

PAGE 58 LAX TERMINAL CORE AND FACADE DESIGN REQUIREMENTS TERMINAL CORE CEILING DESIGN - SAMPLE DETAILS



TYPICAL METAL BAFFLE

VERSION 3

LIGHT FIXTURE AT CLOSURE PANEL

TYPICAL REFLECTED CEILING PLAN

PAGE 59 LAX TERMINAL CORE AND FACADE DESIGN REQUIREMENTS **TERMINAL CORE CEILING DESIGN - SAMPLE LAYOUT**



NOTE : • FINAL LIGHTING DESIGN TBD

TYPICAL REFLECTED CEILING PLAN

PAGE 60 LAX TERMINAL CORE AND FACADE DESIGN REQUIREMENTS CEILING TO SOFFIT TRANSITIONS - SAMPLE DETAILS





03 SOFFIT DETAIL AT HVAC SLOT DIFFUSER

CORIAN WALL SURFACE (GLACIER WHITE)

CEILING BAFFLE W/ INTEGRATED END CAP

WHITE PAINTED METAL SOFFIT (DIMENSION IS DETERMINED BY CEILING BAFFLE END LOCATION)

01 TYPICAL SOFFIT DETAIL

VERSION 3

- FINAL LIGHTING DESIGN TBD
- CONCEAL ALL LIGHT FIXTURES WITHIN BAFFLE ZONE
- CEILING LIGHT LOCATIONS TO BE COORDINATED WITH ALL EXPOSED UTILITIES
- EVENLY DISTRIBUTED LIGHT FIXTURES THROUGHOUT ALL BAFFLE CEILING AREAS
- LIGHT SPACING ALIGNS TO CURTAIN WALL MODULE

NOTE :

CEILING LIGHTS OPTION 2 - LINEAR LIGHTS







PAGE 61 LAX TERMINAL CORE AND FACADE DESIGN REQUIREMENTS PRELIMINARY CEILING LIGHTING CONCEPT

CEILING LIGHTING OPTION 1 - DOWNLIGHTS

PAGE 62 LAX TERMINAL CORE AND FACADE DESIGN REQUIREMENTS PRELIMINARY CEILING LIGHTING CONCEPT



DEPARTURES LEVEL

NOTE : • FINAL LIGHTING DESIGN TBD

CONCOURSE LEVEL

PAGE 63 LAX TERMINAL CORE AND FACADE DESIGN REQUIREMENTS COLUMN COVERS - SAMPLE DETAILS



2. ALL ALUMINUM PANEL SHOULD HAVE SQUARED EDGES

PAGE 64 LAX TERMINAL CORE AND FACADE DESIGN REQUIREMENTS GLASS GUARDRAIL + PROTECTIVE RAIL- SAMPLE DETAIL





CRISP/BACKCUT CORNER 11 GAUGE STAINLESS STEEL TOP CAP

CLEAR GLASS WITH GRADUATING MICRO DOT FRIT PATTERN

CONTINUOUS 1-1/4" STAINLESS STEEL RAIL WITH STAINLESS STEEL POSTS AT 3' O.C. AND CONCEALED ATTACHMENT TO SLAB (ALIGN POSTS TO GLASS PANE JOINTS)

STAINLESS STEEL PLATE

CORIAN WALL SURFACE (GLACIER WHITE)

TYPICAL GUARDRAIL SECTION

PAGE 65 LAX TERMINAL CORE AND FACADE DESIGN REQUIREMENTS PROTECTIVE RAIL - SAMPLE IMAGES



(ALIGN POSTS TO GLASS JOINTS ABOVE)

PARTIAL SECTION ARRIVALS LEVEL STAIR

PAGE 66 LAX TERMINAL CORE AND FACADE DESIGN REQUIREMENTS STAIRS AND RAILING - SAMPLE DETAILS



1-1/2" STAINLESS STEEL HANDRAIL WITH STAINLESS STEEL HANDRAIL BRACKET

STAINLESS STEEL PLATE BEYOND

CORIAN (GLACIER WHITE)

01 ENLARGED STAIR SECTION TYPICAL TREAD

PAGE 67 LAX TERMINAL CORE AND FACADE DESIGN REQUIREMENTS STAIRS AND RAILING - SAMPLE DETAILS





VERSION 3

02 TYPICAL STAIR SECTION STRINGER

PAGE 68 LAX TERMINAL CORE AND FACADE DESIGN REQUIREMENTS TERMINAL CORE FLOOR - SAMPLE



- WHITE EPOXY FILL MORTAR (TM# 3833 CITADEL WHITE)
- SIZES SHALL BE #1 AND #0 (PER LAWA)
- (PER LAWA)
- DIVIDER STRIPS
 - 1/8" MAXIMUM
 - MINIMIZE QUANTITY
 - ORTHOGONAL LAYOUT

NOTE : • REFER TO DESIGN CONSTRUCTION HANDBOOK (DCH) FOR ADDITIONAL INFORMATION

• MIX DESIGN SHALL CONSIST OF NO MORE THAN 40% GLASS / MIRROR

PAGE 69 LAX TERMINAL CORE AND FACADE DESIGN REQUIREMENTS FLOOR TRANSITION - SAMPLE DETAILS

02



- ALIGN FLOOR TRANSITIONS TO COLUMN GRID
- FLOOR TRANSITION WIDTH IS DETERMINED BY COLUMN WIDTH OR EXPANSION JOINT WIDTH
- ANTI-SKID / SLIP-RESISTIVE FINISH PER LAWA
- NO SEAMS
- FLUSH FINISH ELEVATION

02 FLOOR TRANSITION SAMPLE IMAGE



01 PLAN DIAGRAM TYPICAL FLOOR TRANSITION AT EXPANSION JOINT

PAGE 70 LAX TERMINAL CORE AND FACADE DESIGN REQUIREMENTS FIRE DOOR SYSTEM - SAMPLE DETAILS



POCKET DETAIL

STRIKER DETAIL



SAMPLE SHOWING INTEGRATED POCKET COVER DOOR WITH MATCHING FINISH