

Date:

Certificate of Design Application

<u>September 21, 2007</u>

Domenech Hicks & Krockmalnic, Inc.

Job Name:	Name: <u>Terminal Passenger Circulation Improvements</u>			
Address of C	onstruction:	Portland International Jetport	etport, 1001 Westbrook St., Portland, Maine	
	Cons	2003 Internationa truction project was designed to t		ria listed below:
Building Code	& Year <u>IBC</u>	C-2003 Use Group Cla	ssification (s) <u>Assemb</u>	oly Group A-3 (EXISTING)
Type of Const	ruction <u>E</u>	XISTING *		
Is there a Fire s	uppression syste	m in Accordance with Section 903.3.	1 of the 2003 IBC? <u>YES</u>	S_Supervisory alarm system? <u>YES</u>
Is the Structure	mixed use?	NO If yes, separated or non se	eparated or non separate	ed (section 302.3)N/A
		red? (See Section 1802.2)		
Structural Design Calculations			<u>No</u>	Live load reduction
Completed Submitted for all structural members (106.1 – 106.11)			N/A	Roof live loads (1603.1.2, 1607.11)
•			N/A	Roof snow loads (1603.7.3, 1608)
		n Documents (1603)	N/A	Ground snow load, Pg (1608.2)
Uniformly distributed floor live loads (7603.11, 1807) Floor Area Use Loads Shown Assembly per IBC Table 1607.2 100 psf			N/A	If $Pg > 10$ psf, flat-roof snow load pf
			N/A	If $Pg > 10$ psf, snow exposure factor, C_P
				If $Pg > 10$ psf, snow load importance factor, k
				Roof thermal factor, ₍₁ (1608.4)
				Sloped roof snowload, R(1608.4)
Wind loads (1603.1.4, 1609)				
	Design option utilized (1609.1.1, 1609.6)		II Seismic design category (1616.3) Light framed walls/w	
	Basic wind speed (1809.3) Building category and wind importance Factor, w table 1604.5, 1609.5) Wind exposure category (1609.4)		<u> </u>	Basic seismic force resisting system (1617.6.2)
N/A			$4.0, 2.0$ per ASCE7-02 Response modification coefficient, p_I and	
N/A			- ·	deflection amplification factor _{Cd} (1617.6.2)
	_ Internal pressure co		Fauiv Lat Force	Analysis procedure (1616.6, 1617.5)
N/A N/A	-	dding pressures (1609.1.1, 1609.6.2.2) ssures (7603.1.1, 1609.6.2.1)	<u>Equiv. Lat Porce</u> 17.1 kip	Design base shear (1617.4, 16175.5.1)
Earth design data (1603.1.5, 1614-1623)			Flood loads (1803.1.6, 1612)	
Equiv. Lat Force Design option utilized (1614.1)			,	Flood Hazard area (1612.3)
•	_ Seismic use group		N/A	
	0 1	coefficients, SDs & SD1 (1615.1)	Other loads	
D	Site class (1615.1.5)		No No	Concentrated loads (1607.4)
			Not Required	Partition loads (1607.5)
the existing J	etport Termina	enovation project within l, involving no alterations l exterior walls.	N/A	Misc. loads (Table 1607.8, 1607.6.1, 1607.7, 1607.12, 1607.13, 1610, 1611, 2404