form # P 04 DISPLAY THIS CARD FRONTAGE OF WORK Please Read Application And ECTION Notes, If Any, Permit Number: 04050 T SSUED Attached This is to certify that ____ Delta Air Lines Inc/Ledgewo MAY 2 6 2004 Inc. has permission to _ Enlarge Baggage Claim Faci AT 1001 Westbrook St 208 A001002 provided that the person or persons, from or corporation to epting this permit shall comply with all of the provisions of the Statutes of Waine and of the Ord Bances of the City of Portland regulating the construction, maintenance and use of buildings and sunctures, and of the application on file in this department.

insped

n permi

ding or

IR NOTICE IS REQUIRED.

PENALTY FOR REMOVING THIS CARD

n procu

t thered

A certificate of occupancy must be

procured by owner before this build-

ing or part thereof is occupied.

fication

n and w

re this

ed or

Apply to Public Works for street line

and grade if nature of work requires

OTHER REQUIRED APPROVALS

Department Name

such information.

Fire Dept. 4 Mm

Health Dept. _ Appeal Board

City of Portland, Maine - Bu 389 Congress Street, 04101 Tel:	0			i	04-0501	Issue Date	WITIS	208 A0	01002
Location of Construction:	Owner Name:			Owner	r Address:	MA'	Y 2 6 3	Phone:	
1001 Westbrook St	Delta Air Line	s Inc		Po B	ox 45852		· ~ U Z	004	
Business Name:	Contractor Name			Contra	actor Address:	arya	F POR	Phone	***************************************
	Ledgewood In	c.		27 M	Iain Street So	outh Portlan	d	20776718	366
Lessee/Buyer's Name	Phone:			Permi	t Type:				Zone:
				Add	litions - Com	mercial			AB
Past Use:	Proposed Use:			Permi	it Fee:	Cost of Wor	k:	CEO District:	
Airport	Airport with E	_	Baggage	\$	32,781.00	\$3,639,46	53.00	3	
alicon .	Claim Facility			FIRE	DEPT:	Approved	INSPE	CTION:	
						Denied	Use G	roup:	Туре:
TAPA NA STATEMENT									
Proposed Project Description:									
Enlarge Baggage Claim Facility				Signat			Signati		····
				PEDE	STRIAN ACTI	IVITIES DIST	FRICT (P.A.D.)	
				Action	n: Approv	ved 🗌 App	proved w	/Conditions	Denied
				Signat	ture:			Date [.]	
Permit Taken By: Date	Applied For:			L	Zoning	Approva	al		
kwd 04/2	29/2004					,PP			
1. This permit application does no	ot preclude the	Spe	cial Zone or Revie	ws	Zoni	ng Appeal		Historic Pres	ervation
Applicant(s) from meeting appl Federal Rules.	•	☐ Sh	noreland		☐ Varianc	e		Not in Distric	ct or Landmai
2. Building permits do not include septic or electrical work.	e plumbing,		etland a		Miscella	nneous		Does Not Rec	quire Review
3. Building permits are void if wo within six (6) months of the dat		☐ Fl	ood Zone PAnel	12	Condition	onal Use		Requires Rev	riew
False information may invalidate permit and stop all work	te a building	☐ St	ıbdivision	(Interpre	tation		Approved	
•.			te Plan 7,00 Å - 601 :	4	Approve	ed		Approved w/	Conditions
		Maj [Minor MM		Denied			☐ Denied	
Ý		Date:	11591	\mathcal{A}	Date:			Date:	
			4/2/	04					
-									
		(CERTIFICATI	ON					
I hereby certify that I am the owner of	of record of the na				nosed work is	s authorized	by the	owner of recor	d and that
I have been authorized by the owner jurisdiction. In addition, if a permit shall have the authority to enter all assuch permit.	to make this appl for work describe	ication and in the	as his authorized application is is	d agent ssued,	t and I agree I certify that	to conform the code of	to all a ficial's	pplicable laws authorized repr	of this esentative
								THEORY CA.	AP-0
SIGNATURE OF APPLICANT			ADDRES	S		DATE		РНО	NE

OI/(1/05 FROMING (15) FLOOR ONLY) OKBY

- NEED SOFCIAL Tropection FOR STREE &

Corenete work

O3/25/05 - pre (menan walk than for phase II

of august bagsge area u/ Mile Collers, F, D. +

Jan Resporteds - all looks good - Jan M.

TO:

Inspections Department

FROM:

Jay Reynolds, Development Review Coordinator

DATE:

April 22, 2005

RE:

C. of O. for the Jetport Baggage Claim Facility Expansion

(CBL199A001) (ID#2004-0014)

After visiting the site, I have the following comments:

Miscellaneous Site work incomplete:

I anticipate this work can be completed by **June 15, 2005**. At this time, **I recommend issuing a temporary Certificate of Occupancy.**

Cc:

Sarah Hopkins, Development Review Services Manager

Mike Nugent, Inspection Services Manager

File: Urban Insight

File:

O:\plan\drc\jetportbaggage1.doc



CITY OF PORTLAND, MAINE Department of Building Inspection

Certificate of Occupancy

LOCATION 1001 Westbrook St

CBL 208 A001002

Issued to Delta Air Lines Inc/Ledgewood Inc.

Date of Issue 04/22/2005

This is to certify that the building, premises, or part thereof, at the above location, built — altered — changed as to use under Building Permit No. 04-0501 , has had final inspection, has been found to conform substantially to requirements of Zoning Ordinance and Building Code of the City, and is hereby approved for occupancy or use, limited or otherwise, as indicated below.

PORTION OF BUILDING OR PREMISES

APPROVED OCCUPANCY

New Baggage Claim Area(Extreme Left Side) Two Carousells

Use Group AB/B/S Type 2C Boca 1999

Limiting Conditions:

This is a temporary Certificate of Occupancy for Phase 1 and 2 only. A permanent c/o shall be issued upon completion of the entire project as shown in the approved building permit.

Site work incomplete. TEMPORARY CERTIFICATE UNTIL JUNE 15, 2005

This certificate supersedes certificate issued

Approved:

(Date)

Inspector

Inspector of Buildings

Notice: This certificate identifies lawful use of building or premises, and ought to be transferred from owner to owner when property changes hands. Copy will be furnished to owner or lessee for one dollar.

(MO)



CITY OF PORTLAND, MAINE Department of Building Inspection

Certificate of Occupancy

LOCATION 1001 Westbrook St

CBL 208 A001002

Issued to Delta Air Lines Inc/Ledgewood Inc.

Date of Issue 06/03/2005

This is to certify that the building, premises, or part thereof, at the above location, built — altered — changed as to use under Building Permit No. 04-0501 , has had final inspection, has been found to conform substantially to requirements of Zoning Ordinance and Building Code of the City, and is hereby approved for occupancy or use, limited or otherwise, as indicated below.

PORTION OF BUILDING OR PREMISES

New Baggage Claim Area(Right Side)One Carousell

APPROVED OCCUPANCY

Use Group AB/B/S Type 2C BOCA 1999

Limiting Conditions:

This is a tempoary Certificate of Occupancy for Phase 3 only. A permanent C/O shall be issued upon completion of the entire project as shown in the approved building permit. Site work incomplete. TEMPORARY C/O UNTIL JULY 03, 2005.

This certificate supersedes certificate issued

Approved:

(Date)

Inspector

Inspector of Buildings

C-MIN

Notice: This certificate identifies lawful use of building or premises, and ought to be transferred from owner to owner when property changes hands. Copy will be furnished to owner or lessee for one dollar.

Owner Name: Delta Air Line Contractor Nam Ledgewood In Phone:	e: nc. Enlarged Baggag	74-8716 Own Po Cond 27 Pern Ad	04-0501 ner Address: Box 45852 tractor Address: Main Street South nit Type: Iditions - Commerce mit Fee: \$32,781.00 \$3	cial st of Work: 8,639,463.00 proved INSF	Phone: 20776718 CEO District: 3 PECTION:	
Owner Name: Delta Air Line Contractor Nam Ledgewood In Phone: Proposed Use: Airport with F	es Inc e: nc. Enlarged Baggag	Own Po Cont 27 1 Pern Ad Perr	her Address: Box 45852 tractor Address: Main Street South hit Type: Idditions - Commerce mit Fee: \$32,781.00 \$3 E DEPT: Ap	Portland cial st of Work: 3,639,463.00 proved INSP	Phone: 20776718 CEO District: 3	:66
Delta Air Line Contractor Nam Ledgewood In Phone: Proposed Use: Airport with E	e: nc. Enlarged Baggag	Po Cont 27 i Pern Ad	Box 45852 tractor Address: Main Street South nit Type: Iditions - Commerce mit Fee: \$32,781.00 \$3 E DEPT: Ap	Portland cial st of Work: 3,639,463.00 proved INSP	Phone 20776718 CEO District: 3 PECTION:	
Contractor Nam Ledgewood In Phone: Proposed Use: Airport with F	e: nc. Enlarged Baggag	Cont 27 1 Pern Ad	tractor Address: Main Street South nit Type: Iditions - Commerce mit Fee: \$32,781.00 \$3 E DEPT: Ap	Portland cial st of Work: 3,639,463.00 proved INSP	CEO District: 3 PECTION:	
Ledgewood In Phone: Proposed Use: Airport with E	enc.	Pern Ad	Main Street South nit Type: Idditions - Commerce mit Fee: \$32,781.00 \$3 E DEPT: Ap	cial st of Work: 8,639,463.00 proved INSF	20776718 CEO District:	
Proposed Use: Airport with F	Enlarged Baggag	Pern Ad Pern	nit Type: dditions - Commerce mit Fee: \$32,781.00 \$3 E DEPT: Ap	cial st of Work: 8,639,463.00 proved INSE	CEO District: 3 PECTION:	
Proposed Use: Airport with F		Ad Perr	dditions - Commerce mit Fee: Cos \$32,781.00 \$3 E DEPT: Ap	st of Work: 8,639,463.00 proved INSP	PECTION:	Zone:
Airport with E		Perr	mit Fee: Cos \$32,781.00 \$3 E DEPT: Ap	st of Work: 8,639,463.00 proved INSP	PECTION:	
Airport with E		e	\$32,781.00 \$3 E DEPT: Ap	8,639,463.00 proved INSF	PECTION:	
			E DEPT: Ap	proved INSP	PECTION:	
			[Ap	proved Lice	A - 1621	
				nied	Group: $A3/0/$	Type:
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				14 (0.4	-	
			ature: AM	Signates Signates Signates		lugt
		Actio			, , (Denied
				Approved		Denied
olied For:		Signa			Date:	
2004			Zoning Ap	proval		
reclude the	Special Zone of	or Reviews	Zoning Ap	peal	Historic Prese	rvation
ble State and	Shoreland		☐ Variance		Not in District	or Landmark
umbing,	☐ Wetland		Miscellaneous	3	Does Not Requ	ire Review
s not started	☐ Flood Zone		Conditional Use		Requires Review	
building			Interpretation		Approved	
	Site Plan		Approved		Approved w/Co	onditions
	Maj [] Minor [MM	Denied		Denied	
	Date:		Date:		Date:	
	reclude the ble State and umbing, s not started f issuance.	zeclude the ble State and Special Zone of Shoreland umbing, Wetland s not started f issuance. building Subdivision Site Plan Maj Minor	s not started f issuance. building Subdivision Special Zone or Reviews Shoreland Wetland Flood Zone Subdivision Site Plan Maj Minor MM	zoning Ap reclude the ble State and Shoreland Variance umbing, Wetland Miscellaneous s not started f issuance. building Subdivision Interpretation Maj Minor MM Denied	Special Zone or Reviews Zoning Approval	Zoning Approval Zoning Approval Zoning Approval Zoning Appeal Historic Presentation Not in District Not in

CITY OF PORTLAND, MAINE DEVELOPMENT REVIEW APPLICATION PLANNING DEPARTMENT PROCESSING FORM

Fire Copy

2004-0014	
Application I. D. Number	
1.10.0.10.0.0.1	

Portland International Jetport Applicant			1/30/2004 Application Date
1001 Westbrook Street, Portland, ME Applicant's Mailing Address	04101		Baggage Claim Facility Expansion Project Name/Description
Consultant/Agent Applicant Ph: (207) 772-0466 Applicant or Agent Daytime Telephone, Proposed Development (check all that a	apply): New Building	Address of Proposed Site 199 A001001 Assessor's Reference: Cha Building Addition Change Of Use ot Oth	rt-Block-Lot
Proposed Building square Feet or # of L		Acreage of Site	AB Zoning
Check Review Required:			2011ing
Site Plan (major/minor)	Subdivision # of lots	PAD Review	14-403 Streets Review
Flood Hazard	Shoreland	☐ HistoricPreservation	□ DEP Local Certification
Zoning Conditional Use (ZBA/PB)	Zoning Variance		Other
Fees Paid: Site Pla \$500.0	00 Subdivision	Engineer Review	Date <u>2/2/2004</u>
Fire Approval Status:		Reviewer Lt. MacDougal	
Approved	Approved w/Condition See Attached	ons Denied	
Approval Date <u>3/23/2004</u>	Approval Expiration	3/23/2005 Extension to	Additional Sheets
Condition Compliance	Lt. MacDougal signature	3/23/2004 date	Attached
Performance Guarantee	Required*	☐ Not Required	
* No building permit may be issued until	a performance guarantee	has been submitted as indicated below	
Performance Guarantee Accepted			
Inspection Fee Paid	date	amount	expiration date
Building Permit Issue	date	amount	
Performance Guarantee Reduced	date		
	date	remaining balance	signature
Temporary Certificate of Occupancy		Conditions (See Attached	· ·
Final Inspection	date		expiration date
Certificate Of Occupancy	date	signature	
Performance Guarantee Released	date		
Defect Guarantee Submitted	date	signature	
Defect Guarantee Released	submitted date	amount	expiration date
	date	signature	

CITY OF PORTLAND, MAINE DEVELOPMENT REVIEW APPLICATION PLANNING DEPARTMENT PROCESSING FORM ADDENDUM

Portland International Jetport

Applicant's Mailing Address

Applicant Ph: (207) 772-0466

1001 Westbrook Street, Portland, ME 04101

Applicant or Agent Daytime Telephone, Fax

Agent Fax:

Applicant

Consultant/Agent

ENT PROCESSING FORM	2004-0014				
ENDUM	Application I. D. Number				
	1/30/2004				
	Application Date				
	Baggage Claim Facility Expansion				
	Project Name/Description				
1001 - 1001 Westbrook St, i	Portland, Maine				
Address of Proposed Site					

Approval Conditions of Fire

199 A001001

Assessor's Reference: Chart-Block-Lot

additional hydrant required on the east end near the FAA tower

City of	f Portland, Ma	ine - Bu	uilding or Use Pern	nit		Permit No:	Date Applied For:	CBL:
			: (207) 874-8703, Fax		74-8716	04-0501	04/29/2004	208 A001002
Location	of Construction:		Owner Name:	WARRANCE	(Owner Address:		Phone:
1001 W	estbrook St		Delta Air Lines Inc			Po Box 45852		
Business l	Vame:		Contractor Name:			Contractor Address:		Phone
			Ledgewood Inc.			27 Main Street Sou	th Portland	(207) 767-1866
Lessee/Bu	ıyer's Name		Phone:		I	Permit Type:		
						Additions - Comm	ercial	
Proposed	Use:				Proposed	l Project Description:	****	
Airport	with Enlarged Bag	ggage Cla	im Facility	and the second seco	Enlarg	e Baggage Claim F	acility	
Dept:	Zoning	Status:	Approved	R	eviewer:	Marge Schmuckal	Approval D	Pate: 04/29/2004
Note:	-		••			J		Ok to Issue: 🗹
Dept:	Building	Status:	Approved with Conditi	ons Ro	eviewer:	Mike Nugent	Approval D	oate: 05/25/2004
Note:	<i>B</i>	Statust	Tippio (un mini comuni			mike rugent	Approvai D	Ok to Issue:
will 1 3) Al 4) Ph area It sho (A3)	redesign and subm Il Treads must be a nil Doughty will pr is "A3". The unde ould be noted that use with out struc	at for app at least 11 rovide ass signated future use tural alter	I" net and risers must no signments for the mixed area on the fourth floor e of the second floor is	ot be great use group is "B" and limited as	er than 7' os, this rev I the exten	'. view was based on r rior baggage handli	the following. The l ng area is "S1".	baggage claim
D 4	D'	- G	1 11 0 11		•	T. 15 D.		
Dept:	rire	status:	Approved with Condition	ons Re	eviewer:	Lt. MacDougal	Approval D	
	re alarm system ar Department	nd the spi	rinkler system shall be to	ested to th	e appropi	riate standard and th	ne results submitted	Ok to Issue:
	-	nall he inc	stalled in accordance wi	th NEDA	72 standa	rde		
	•							
3) the sp	orinkler system sha	all be inst	talled in accordance wit	n NFPA 1	3 standar	ds		
Dept:	Planning	Status:	Approved	Re	eviewer:	Ethan Macomber	Approval D	ate: 05/20/2004 Ok to Issue:
Commen			e Plans & Spec books to) March		

04-0501

All Purpose Building Permit Application

If you or the property owner owes real estate or personal property taxes or user charges on any property within the City, payment arrangements must be made before permits of any kind are accepted.

			- Control Control	
	Westbrook land, Maine			
Total Square Footage of Proposed Structu 31,200^SF	ıre	Square Footage of Lot		
Tax Assessor's Chart, Block & Lot Chart# Block# Lot#	Owner:	ty of Portland		Telephone: 874-8877
Lessee/Buyer's Name (If Applicable)	Applicant r telephone: 767–1866	name, address & Ledgewood, Inc. P.O. Box 8107 Portland, ME 04104	We Fe	e: \$ 32,781.00
Current use:				APR 2 9 2004
Contractor's name, address & telephone: Who should we contact when the permit i Mailing address:	767–1866 s ready: <u>K</u> P	, Inc., P.O. Box, 8107, evin McCosh .O. Box 8107 ortland, ME 04104		
We will contact you by phone when the p review the requirements before starting an and a \$100.00 fee if any work starts before	y work, with	a Plan Reviewer. A:stop w	ork o	up the permit and order will be issued
F THE REQUIRED INFORMATION IS NOT INCLUDENIED AT THE DISCRETION OF THE BUILDING, NFORMATION IN ORDER TO APROVE THIS PER	/PLANNING D			

I hereby certify that I am the Owner of record of the named property, or that the owner of record authorizes the proposed work and that I have been authorized by the owner to make this application as his/her authorized agent. I agree to conform to all applicable laws of this Jurisdiction. In addition, if a permit for work described in this application is issued, I certify that the Code Official's authorized representative shall have the authority to enter all areas covered by this permit at any reasonable hour to enforce the provisions of the codes applicable to this permit.

	- P			f
Signature of applicant:	rf. pr	Date: "	1/26/0	gef
			· · ·	'

This is NOT a permit, you may not commence ANY work until the permit is issued. If you are in a Historic District you may be subject to additional permitting and fees with the Planning Department on the 4th floor of City Hall



CITY OF PORTLAND BUILDING CODE CERTIFICATE 389 Congress St., Room 315 Portland, Maine 04101

ACCESSIBILITY CERTIFICATE

Designer: PHUMP J. DOUGHTY AMOCIATION - ARCHITECTS
Address of Project: 1001 WESTEROOK STREET BOTTAMO, ME
Nature of Project: EASTERLY EXPANSION OF THE BAGGAGE CLAIM FACILIT

The technical submissions covering the proposed construction work as described above have been designed in compliance with applicable referenced standards found in the Maine Human Rights Law and Federal Americans with Disability Act.

PHILLIP J.

DOUGHTY

1108

Signature: Hally Jacquity

Title: ARCHITECT / OWNER

Firm: PHLUP J. ECLEHTY ASSOC. ARCHITE

Address: 362 US RT 1

FALMATH, MAINE

Phone: (207) 781-5346

TO:

Basic Wind Spead

Wind Exposure Category . 18.5



CITY OF PORTLAND BUILDING CODB CERTIFICATE 389 Congress St., Room 315 Portland, Maine 04101

Inspector of Buildings City of Portland, Maine

De _j Div	partment of Planning & vision of Housing & Co	Urban De	velopment Service
· FROM DESIGNE	R: BECKER STEVET	WEAR EN	ENEEKS INC.
•	75 YORK ST.	RUZTLAN	0, ME 04101
DATE:	APRIL 23, 200	4	
Job Name:	EASTERLY EXPA	ysion of	BAGGAGE CLAIM FACILITY
Address of Constru			AL JETRUET, POZILANO, ME
THE BO Constru Building Code and	cdod project was designed ac	di oi gaibnoo	1999 (FOURTEENTH EDITION) e building code criteria listed below:
	,	se Group C	lassification(s) Mixed USE
Type of Construction		,	
	Stru	ctural Syste	••
Roof Snow Load		-	ake Loeds .
Ground Snow	Lord (Fg)	0.12	Paak valocity-related acceleration, Av
46 If Pg >10 pet	. Flet Roaf mow load, Pf	0.12	Peak acceleration, As .
0.9 If Pa >10 per	. mow exposure factor. Co	I	Saismic hazard exposure group
1.6 If P8 >10 per	roof thermal factor	·C	Science performance category
1.20 If Pg > 10 per	snow load importance factor, I	<u> </u>	Soil profile type
N/A Sloped Roof	Spowload Ps	BF/MI	Basic structural avelam (salamic-nasigning avernm
	· (IQF.)) Ke2/CD2	SRESDOTSE modification factor R and deflection
	(M.K	R=45/(D=	4 amplification factor, Cd,
The documents	must account for Drift mow los	d, and alanced	snow load and Sliding snow loads as required.
Whid I neds			***

Wind Design Fromuse_

Internal Pressure Coefficient

1.23 Wind Importance Factor



CITY OF PORTLAND BUILDING CODE CERTIFICATE 389 Congress St., Room 315 Portland, Maine 04101

TO:	Inspector of Buildings City of Portland, Maine Department of Planning & Urban Development Division of Housing & Community Service	
	21 The state of th	
FROM:	Plup J. Doughty - ARCHITECT	
RE:	Certificate of Design	
DATE:	4/25/04	
These plan	ns and / or specifications covering construction work on:	
PRIL	OND INTERNATIONAL JETPORT BAGGAGE CLA	31 N
EXPAN	5100 - 1001 WKSTBIROOK ST PORTLAND MAINE	
Have been Engineer a	designed and drawn up by the undersigned, a Maine registered Architect / according to the BOCA National Building Code / 1999 (Fourteenth Editional Public Code / 1999)	(n)
and local a	imendments TRATHE BEST GAR KNOWEDGE.	
	The summing of the second seco	
	The second secon	
(S)	EAL) PHILLIP J. Signature Hollis (legality	
•	1108	·
_	The state of the s	•
<u>As per Mal</u>	Ine State Law: MINIMUM Firm: PHILLIP J. DOUGHTY DESDE	

Address: 362 U.S. RT

FALMATH, MAINE 04/05

\$50,000.00 or more in new construction, repair

expansion, addition, or modification for Building or Structures, shall be prepared by a

registered design Professional.

389 Congress Street, 04		Jse Permit	!	Date Applied For:	CBL:
	1101 Tel: (207) 874-8	8703, Fax: (207) 874-871	.6 04-0501	04/29/2004	208 A001002
Location of Construction:	Owner Name	ne:	Owner Address:		Phone:
1001 Westbrook St	Delta Air	Lines Inc	Po Box 45852		
Business Name:	Contractor I	Name:	Contractor Address:		Phone
	Ledgewoo	od Inc.	27 Main Street Sou	ıth Portland	(207) 767-1866
Lessee/Buyer's Name	Phone:		Permit Type:		cica anno a sach dha each ann ann a bha ann a bhrach dha chiùid dhiùid d
			Additions - Comm	nercial	
Proposed Use:		Propo	sed Project Description:		
Airport with Enlarged Ba	ggage Claim Facility	Enla	rge Baggage Claim F	acility	
Dept: Zoning Note:	Status: Approved	Reviewe	r: Marge Schmucka	l Approval l	Date: 04/29/2004 Ok to Issue: ✓
Dept: Building Note:	Status: Approved with	ith Conditions Reviewe	r: Mike Nugent	Approval l	Date: 05/25/2004 Ok to Issue: ✓
approval. 2) Handrails are show	m at 22 imalaga alagya tha	a landing adas of the treads			
will redesign and subr 3) All Treads must be 4) Phil Doughty will p is "A3". The undesign	nit for approval. at least 11" net and rise provide assignments for lated area on the fourth to the second the	ers must not be greater than the mixed use groups, this floor is "B" and the exterion and floor is limited as the the	7". review was based on r baggage handling a	the following. The	
will redesign and subr 3) All Treads must be 4) Phil Doughty will p is "A3". The undesign It should be noted that (A3) use with out stru	nit for approval. at least 11" net and rise provide assignments for lated area on the fourth to the second the	ers must not be greater than the mixed use groups, this floor is "B" and the exterion and floor is limited as the the	7". review was based on r baggage handling a	the following. The	baggage claim area
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will redesign and subr 3) All Treads must be 4) Phil Doughty will p is "A3". The undesign It should be noted that (A3) use with out struct A separate permit is re Dept: Fire Note: 1) the fire alarm system a Fire Department	at least 11" net and rise provide assignments for lated area on the fourth at future use of the second ctural alteration. Status: Approved with and the sprinkler system.	ers must not be greater than the mixed use groups, this floor is "B" and the exterion and floor is limited as the the second floor. The Conditions Reviewer	7". review was based on r baggage handling a loading is only 50 Ps r: Lt. MacDougal opriate standard and t	the following. The rea is "S1". SF, thus precluding Approval I	baggage claim area gany future terminal Date: 05/04/2004 Ok to Issue:
will redesign and subr 3) All Treads must be 4) Phil Doughty will p is "A3". The undesign It should be noted that (A3) use with out struct A separate permit is re Dept: Fire Note: 1) the fire alarm system a Fire Department 2) the fire alarm system s	nit for approval. at least 11" net and rise provide assignments for lated area on the fourth it future use of the secon- ctural alteration. equired for the use of the Status: Approved with and the sprinkler system shall be installed in acco-	ers must not be greater than the mixed use groups, this floor is "B" and the exterion and floor is limited as the the see second floor. On the Conditions Reviewed a shall be tested to the approximation.	7". review was based on r baggage handling as loading is only 50 Ps r: Lt. MacDougal opriate standard and t	the following. The rea is "S1". SF, thus precluding Approval I	baggage claim area gany future terminal Date: 05/04/2004 Ok to Issue:
will redesign and subr 3) All Treads must be 4) Phil Doughty will p is "A3". The undesign It should be noted that (A3) use with out struct A separate permit is re Dept: Fire Note: 1) the fire alarm system a Fire Department 2) the fire alarm system s	nit for approval. at least 11" net and rise provide assignments for lated area on the fourth it future use of the secon- ctural alteration. equired for the use of the Status: Approved with and the sprinkler system shall be installed in acco-	ers must not be greater than the mixed use groups, this floor is "B" and the exterion and floor is limited as the the second floor. Ith Conditions Reviewed a shall be tested to the appropriate to the appropriate ordance with NFPA 72 standards.	7". review was based on r baggage handling as loading is only 50 Ps r: Lt. MacDougal opriate standard and t	the following. The rea is "S1". SF, thus precluding Approval I	baggage claim gany future ter Date: 05/0 Ok to Issue



CITY OF PORTLAND BUILDING CODE CERTIFICATE 389 Congress St., Room 315 Portland, Maine 04101

ACCESSIBILITY CERTIFICATE

Designer:	HMP J. Darel	MY AMERIATE	= - APCHITE	esco
Address of Projec	et: 1001 WESTER	GOK STREET	BRITANO,	ME.
Nature of Project:	EASTERLY EXPAN	SION OF THE BAC	IGAGE CLAIN	1 EACIL
	•			

The technical submissions covering the proposed construction work as described above have been designed in compliance with applicable referenced standards found in the Maine Human Rights Law and Federal Americans with Disability Act.

(SEAL)

Signature:

ASSOC. ARCHTS

Address: 362

ETTER OF

73

MARSH CONSTRUCTION SERVICES, INC.

10 Wisteria Lane ROCHESTER, NY 14617

(585) 342-1150 FAX (585) 342-1172

City Of Portland 389 Congress St. Room 315 Portland, ME 04101

JOB NUMBER/PHONE	DATE
	4/29/2004
ATTENTION	
Mike Nugent	
RE:	
Paradies Shop Airside PWM	

WE ARE SENDING YOU

Attached

Under separate cover via

the following items.

Shop drawings

Prints

Plans

Specifications

Samples

Copy of letter

Change order

Other:

COPIES	DATE	NUMBER	DESCRIPTION
			Building Code Certificates Signed By Design Professional

THESE ARE TRANSMITTED as checked below:

For your approval

Approved as submitted

Resubmit

copies for approval

For your use

Approved as noted

Submit

copies for distribution

As requested

Returned for corrections

Return

corrected prints

For review and comment

Other

FOR BIDS DUE/DATE:

PRINTS RETURNED AFTER LOAN TO US

REMARKS

PRODUCT 13127

COPY TO

File

If enclosures are not as noted, please notify us at once.

SIGNED

PRINTED IN ILS A

FOLD AT (>) TO FIT COMPANION 771 DU-0-VUE ENVELOPE

Applicant: DelfA Au LineSINC Date: 4/29/04
Address: (00) Westbrook & C-B-L: 208-A-00/002
CHECK-LIST AGAINST ZONING ORDINANCE
Date-Developed Site Permit #04-0501
Zone Location - AB
Interior or corner lot -
Interior or corner lot - Proposed Use/Work - Ex JANO DAGGASE ALL Supposed Discourse Cold
Servage Disposal - Col
Lot Street Frontage -
Front Yard -
Rear Yard - None gured
Side Yard -
Projections -
Width of Lot-
Height - 45 WAX Less han 8
Lot Area -
Lot Coverage/Impervious Surface - WAS
Area per Family - NA
Off-street Parking - NA 7 New S
Loading Bays - N
Site Plan - # 2004-00/4
Shoreland Zoning/Stream Protection - W
Flood Plains - 1/2 Inc

PORTLAND INTERNATIONAL JETPORT

Manager's Office 1001 Westbrook Street Portland, Maine 04102

LETTER OF TRANS!

AL

(207) 772-0690	DATE O+ 23 O+ JOB NO JTPC-21
TO MIKE NUGENT	RE MIKE NUGENT
· ·	EASTERLY BAG.
PERMITTING DEPT	CLAIM EXPANSION
	TE018C1
GENTLEMEN:	
WE ARE SENDING YOU ✓ Attached ☐ Under sepa	rate cover via the following items:
COPIES DATE NO.	DESCRIPTION
1 04.23.04 - 1 FULL SET OF	CONSTRUCTION
DRAWINGS FOR	2 THE EASTERLY
BAG CLAIM F	ROTECT
·	
THESE ARE TRANSMITTED TO THE ALL ALL ALL ALL ALL ALL ALL ALL ALL AL	
	vapios for approval
For review and comment	☐ Helurn corrected prints
	ITS RETURNED AFTER LOAN TO US
REMARKS_	
As requested attached is	the requested
full set of construction	drawings for
your review.	
N = 1	ATTENTION HIKE NO GENT RE EASTERLY BAGS CLAIM EXPANSION DROTECT DESCRIPTION SET OF CONSTRUCTION GS FOR THE EASTERLY AIM PROTECT d as submitted Resubmit copies for approval d as noted Submit copies for distribution d for corrections Return corrected prints PRINTS RETURNED AFTER LOAN TO US ed is the requested uction drawing for
TO MIKE NUCENT PLANNING & CAMM APANSION PERMITTING DEPT Attached Under separate cover via	
8319	
OPPY TO	70
Maylo Har War out su	ENED XXXXIII
1 - 1	



FAX COVER SHEET

(207)767-1866 Fax (207)767-1869

			Date:	May 14, 200	4
Please deliv	er the following	pages to:			7,1
Name:	Mike Nugent				
Firm:	City of Portland	Building Inspections			
Address:	and the second s				Section 1
Fax number:_	<u>874-8716</u>	8.777	Total pag	jes sent:	12
From: Eric	c Mora				
Comments:					
Mike,					
Re-fax of the Sp	ecial Inspection rep	ort that was sent to yo	u on the 4 ^u	1	

As far as the Geotechnical Report, please refer to the Appendicies section of the specifications located in Volume 3 of 3, which was submitted to you with the building permit application.

Any questions please call me at the office.

CC:

Peter Benard, L.I. Kevin McCosh, L.I.

Ledgewood Inc PO Box 8107, Portland ME 04104 (207)767-1866 Fax (207)767-1869

FAX COVER SHEET

		Date:	May 4, 200	4
Please delive	er the following pages to:			
Name:	Michael Nugent			
Firm:	City of Portland			
Address:		- Link Power		
Fax number:_	874-8716	Total pag	ges sent:	11
From: Reb	pecca Knox			
Comments: Michael,				
Here is the Inspeknow if there is	ection Report that I spoke about during o	ur phone co	onversation.	Please let us
Thank you, Becky Knox				



RECEIVED

MAY 3 200

Transmittal LEDGEWOOD, INC.

TO:

Ledgewood Inc 27 Main Street

South Portland, Maine

767-1866

ATTN:

Peter Benard

DATE:

May 5, 2004

PROJECT:

Jetport Baggage Claim Special Inspections

PROJECT No:

1207

Attached Attached	1		Under separate cover via:
For Appr	roval r Use lew & Commer	nt	☐ Reviewed ☐ For Signature ☐ Returned for Corrections ☐ Other:
☐ Prints ☐ Mylars ☐ Sepias		Specifications Calculations Letter	☐ Bond Reproducibles☐ Shop Drawings☒ Other: Special Inspection Report
Copies	Date	Submittal No.	Description
1	5/3/04		Special Inspection Report
1			
J. 100 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			

Comments:

Peter,

Please find enclosed the Special Inpsection Report required for the building permit. Note that you need to sign as the "Applicant". If you have any questions please feel free to call

Signed:

Todd M. Neal, P.E.



STATEMENT OF SPECIAL INSPECTIONS

PROJECT:	Portland Intern Easterly Expar	iational Jetpori ision of Bagga	t, Additions and Alte ge Claim Facility	rations:	
LOCATION:	Portland, Main	ie			312.00
PERMIT APPLICANT:	Ledgewood, In	ıc.			
APPLICANT'S ADDRESS:	P.O. Box 8107	, Portland, Ma	ine 04104		
STRUCTURAL ENGINEER C	F RECORD:	Todd M. Ne	al, P.E. – Becker Str	uctural Engine	ers, Inc.
ARCHITECT OF RECORD: This Statement of Special Inspe Building Code. It includes a lis Special Inspector, and the name The Special Inspector shall kee Code Official and to the Regista immediate attention of the Cont be brought to the attention of the reports shall be submitted to the more frequent submissions are	ections is submitted sting of special inspects of other agencies of records of all inspected Design Profess tractor for correction to Code Official and	in accordance ections applications applications listed sional of Record. If the discrete to the Registe to the Registe	able to this project as e retained for conduct herein, and shall fun td. All discrepancies	of the 1999 B s well as the na ting these inspension in the second s shall be broughted the disconditions.	me of the ections. reports to the ght to the
Job site safety is solely the resp include the Contractor's equipm	onsibility of the Co lent and methods us	ntractor. Mate			are not to
Prepared By: Todd M. Neal, P.E. NAME SIGNATURE	5 3 0¢	4	Prepa	OF MANAPORTONIA	THE STATE OF THE S
			Prepa	rer's P.E. Seal	
Applicant's Authorization:			Building Code Office		
SIGNATURE	DATE	•	SIGNATURE		DATE



LIST OF AGENTS

PROJECT:

Portland International Jetport, Additions and Alterations: Easterly Expansion of Baggage Claim Facility

STRUCTURAL ENGINEER OF RECORD:

Todd M.Neal, P.E. - Becker Structural Engineers, Inc.

Name Firm

75 York Street - Portland, ME 04101

Address

ARCHITECT OF RECORD:

Phillip J. Doughty - Phillip J. Doughty Associates

Name Firm

362 U.S. Route 1 - Falmouth, ME 04105

Address

Following is the List of Agents selected for performance of Special Inspections for this project:

`		Name	Firm	Abbreviation
1.	Special Inspector	Todd M. Neal, P.E.	Becker Structural Engineers, In	c. BSE
2.	Special Inspector	Thaddeus P. Gabryszer	wski, P.E. "	BSE
3.	Special Inspector	Scott M. Blouin, P.E.	ш	BSE
4.	Testing Laboratory	Robert Gillespie	R.W. Gillespie & Assocaites	TL



FINAL REPORT OF SPECIAL INSPECTIONS

PROJECT: -	Portland International Jet Easterly Expansion of Ba	port, Additions and Alterations: ggage Claim Facility	
LOCATION:	Portland, Maine		
PERMIT APP	LICANT: Ledgewo	od, Inc.	
APPLICANT	S ADDRESS: P.O. Box	8107, Portland, Maine 04104	
STRUCTURA	L ENGINEER OF RECOR	D:Paul B. Becker, P.E Beck	er Structural Engineers, Inc.
		Name	Firm
ARCHITECT	OF RECORD:	Phillip J. Doughty - Phillip	J. Doughty Associates
		Name	Firm
	ONTRACTOR:	Peter Benard – Ledgewood, and belief, the Special Inspections aspections submitted for the project	Inc.
(Use additional	sheets, if necessary)		***************************************
	- 7	t and numberedto, form a tort.	pasis for, and are to be
			100.00
Submitted By: SPECIAL INSP	ECTOR		
Todd M. Neal, F			
NAME			
SIGNATURE	DATE		

Special Inspector's P.E. Seal

SCHEDULE OF SPECIAL INSPECTION SERVICES

Project: <u>Portland International Jetport Additions and Alterations: Easterly Expansion of Baggage Claim Facility</u>

Page 1 of 6

Summary of Services (Exhibit A)

Material/Activity	Item	Service	Y/N	Extent	Comments	Agent	Date	Rev
1705.2 Inspection	1.00					126011	- Dair	ANDY
of Fabricators								
		Fabrication Procedures	Y			BSE	†	·
		Procedure Implementation	Y				 	+

1705.3 Steel	2.00			***************************************				
Construction						Ì		7
Steel Fabrication		In-Plant-Review					 	
		Part A-Fabrication/QA	1					
		1. AISC	Y	Provide Certification	Conventional Steel Building	BSE	 	
					Structures	1000		
		2. AWS Quality Assurance	Y	Provide Certification		BSE	 	
		Part B - Procedures Implementation				101000		
		Review Conformance to Part A						
		1. Bolts, Nuts, Washers	Y	Sample	AISC ASD A3.4	BSE	 	
		2. Structural Steel	Y	Sample	AISC A6 or A568	BSE	 	
		3. Weld Filler Material	Y	Sample	AISC ASD A3.6	BSE	 	
		Review Connections				LOD		
		1. Shop Bolted	N					
		2. Shop Welded	Y	All	In Field-Visual	TL	<u> </u>	
		3. Connection Design Calcs	Y	All	1112114 110001	BSE		
		4. Shop Welder Certs	Ÿ	All		TL		
Steel Erection		Review Material Certs of Compliance				L.J.a		
		1. Bolts, Nuts, Washers	Y	All		BSE	-	
		2. Structural Steel	Ÿ	All		BSE		
		3. Weld Filler Material	Ŷ	All		BSE		
		Review Primary Steel Connections	 	1 2 3 1		DSE		
		Moment Connections	Y	All		TL		
		Shear Connections	<u> </u>	1 291		112		
	-	1. Field Bolted	Y	All		ייי		
		2. Field Welded	Ÿ	All		TL		
		The state of the s	 	1311		TL		
			ļ					
			1					
							4	

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SCHEDULE OF SPECIAL INSPECTION SERVICES

Project: <u>Portland International Jetport Additions and Alterations: Easterly Expansion of Baggage Claim Facility</u> Page 2 of 6

Material/Activity	Item	Service	Y/N	Extent			 	
1705.3 Steel	2.00	Sel vice	IH	EATERE	Comments	Agent	Date	Rev
Construction	2,00							
Cont'd	1						E	1
Steel Erection			_		ļ		.	
Cont'd								1
COIL II				<u> </u>			-	ļ <u>.</u>
	 	Review Welded Column Splices	N	<u> </u>			-	<u> </u>
			N					ļ
		Review Base Metal Testing for "t">1 1/4"	IN .				-	
		Review Secondary Steel Connections						<u> </u>
***************************************		1. Girts	Υ	Q				<u> </u>
		2. Lintels	Y	Sample		TL		
	ļ			Sample		BSE		
		3. Steel Deck	Y	All		TL		
		4. Precast Wall Panel Connections	Y	Ali		BSE/TL		
	-	5. Lintels/Relieving Angles	N					
		6. Installation of Shear Studs	Y	All		TL		
		7. Review Details/Steel Frame	Y	Sample		BSE/TL		
		·						
Steel Joist & Joist Girders		Part A - Fabrication Procedures						
		In Plant Review	N					
		SJI	Y	Provide Certification		BSE		
		Part B - Procedures Implementation	N			222		
		1. Review Connections	N					
		2. Review Welder Certifications	Y	All		BSE		
		Part C - Material Certifications				DOD		
		I. Structural Steel	Y	All		BSE		
		2. Weld Material	Y	All		BSE		
Joist Erection		Review Joist Bearing Connections	ŤΥ	All		BSE		
		Review Joist Bearing Length	ŤŸ	All	•	LULI		
		Review Joist Bridging	Τ̈́Υ	All				
		IVEASE A 20121 DISCRISS	 	All				

LEDGEWOOD INC

SCHEDULE OF SPECIAL INSPECTION SERVICES

Project: Portland International Jetport Additions and Alterations: Easterly Expansion of Baggage Claim Facility Page 3 of 6

Material/Activity	Item	Service	Y/N	Extent	Comments	Agant	Date	1 73
1705.4 Concrete	4.00					Agent	Date	Res
Construction						1		
Concrete Materials		1. Cement	Y	All	ASTM C150	BSE	-	
		2. Normal Weight Aggregates	Y	All	ASTM C33	BSE		ļ
		3. Air Entraining Admixture	Y	All	ASTM C260		-	
		4. Normal Range Water Reducer	Y	All	ASTM C494	BSE	<u> </u>	<u> </u>
		5. Hi-Range Water Reducer	Y	All	ASTM C494	BSE	ļ	
		б. Accelerator	Y	All	ASTM C494 TYPE A	BSE		
Concrete		1. Vapor Retarder	Ϋ́	Ail	ASTM C494 TYPE A	BSE		
Accessories		•	1	The state of the s		BSE		
		2. Curing Products	Y	All				
		3. Preformed Expansion Joints	Y	All		BSE		
Mix Design		Review Mix Designs	 	1111	ACI Chapter 4	BSE		
		1. FDN Walls & Footings	Y	All	ACI Chapter 4			
		2. Slabs on Grade	Y	All		BSE		
		3. Elevated Slabs	Ÿ	All		BSE		
		4. Exterior Slabs	Ŷ	All		BSE		
Reinforcement		Reinforcement Material Certifications	Y	All		BSE		
Material :			1	All		BSE		
Placing		Review condition & placement of		 				
Reinforcement	ŀ	reinforcing						
		1. Footings & Foundation Walls	Y	Sample				
		2. Slabs on Grade	Ý	Sample		BSE		
		3. Elevated Slabs	Ÿ	Sample		BSE		
		4. Topping Slabs	Y			BSE		
		Review Embedded Items: Bolts,	Y	Sample		BSE		
		Plates, etc.	1	Sample		BSE		
ormwork		Review installation of Forms	Y	C1.		_ F	f	
		Review Form Removal & Reshoring	Y	Sample		BSE		
		r oute resultant or resulting	<u> </u>	Sample		BSE		

LEDGEWOOD INC

SCHEDULE OF SPECIAL INSPECTION SERVICES

Project: Portland International Jetport Additions and Alterations: Easterly Expansion of Baggage Claim Facility Page 4 of 6

Material/Activity	Item	Service	Y/N	Extent	Comments	Agent	Date	Rev
1705.4 Concrete	4.00							+
Construction		1	1					1
Cont'd	l	4	1		}			1
Concrete		1. Field Sampling & Testing of	Y	As per Specifications		TL		1
Operations		Concrete			[
		2. Review Concrete Strength Results	Y		ACI 318.5.6	BSE/TL		1
		3. Review Mix Proportions &	Y		ACI 318.5.2 - 5.4, & 5.8	TL		
		Technique						
		4. Review Concrete Placement	Y	Sample	ACI 318.5.9 & 5.10	BSE/TL		
		5. Review Curing Technique &	Y	Sample	ACI 318.5.11, 5.12, & 5.13			
		Temperature	1	1	, , , , , , , , , , , , , , , , , , , ,			ŀ
Prestressing		Review Application of Prestressing	Y	Sample	ACI 318 Section 18.18	BSE		
Operations		Force						
Precast		Part A – Fabrication Procedures	Y	One Site Plant Visit		BSE		
Manufacturing		In- Plant Review - Architectural						
		In- Plant Review - Structural	Ÿ	One Site Plant Visit		BSE		
Erection of Precast		Part A – Architectural			***************************************			
		Review Erection of Precast Units	Y	Sample		BSE		
		2. Review Connections	Y	Sample		BSE	-	
		3. Review Sealant	Y	Sample		BSE		
		4. Review Grouting	Y	Sample		BSE		·
		Part B - Structural				- 202		
***************************************		1. Review Erection of Precast Units	Y	Sample		BSE		
		2. Review Connections	Y	Sample		BSE		
		3. Review Key Reinforcement	Y	Sample		BSE		
		4. Review Grouting	Y	Sample		BSE		

(SAT) 14:03

SCHEDULE OF SPECIAL INSPECTION SERVICES

Project: Portland International Jetport Additions and Alterations: Easterly Expansion of Baggage Claim Facility
Page 5 of 6

Material/Activity	Item	Service	Y/N	Extent	Comments	Agent	Date	Rev
1705. 5 Masonry	4.00					ragent	Date	EFFA
Construction								
Materials		Review Material Certifications						
		1. Masonry Units	Y	All		BSE		-
		2. Reinforcing Steel	Y	All		BSE	 	
Mix Designs		Review mortar materials & design	Y	All		BSE	 	+
		Review Grout Materials & Design	Y	Ail		BSE		
Testing		Grout - Compressive Strength	Y	Sample		TL	 	
		Mortar - Compressive Strength	Ÿ	Sample	ASTM C780	TL		
Masonry		Review Mortar Mix proportions and	Y	Sample	ACI 530.1 – 2.3, 2.5	TL	 	
Installation		Mixing	1		110100011 2,3,2,5	111		
		Review Grout Mix proportions and	Y	Sample	ACI 530.1 – 2.3, 2.5	TL		
		Mixing		1	313, 213	12		
		Review General Installation of Mortar	Y	Sample	ACI 530.1; 4.2.2	BSE	 	
	L	Review General Installation of Grout	Y	Sample	ACI 530.1; 4.2.2	BSE		
		Review Installation of Masonry Units	Y	Sample	ACI 530.1;2.3.3.3, 4.3.3	BSE		
		Review Installation of Reinforcement	Y	Sample	ACI 530.1, Chapter 8	BSE		
		Review Hot/Cold Weather procedures	Y	Sample	ACI 530.1; 2.3.2.2,2.3.2.3	BSE		
		Review Installation of Anchorage	Y	Sample	ACI 530.1; 4.2, 5.14	BSE		
1705.7 Wood	5.00	NOT APPLICABLE				DOL		
Construction					ļ.			
1705.7 Prepared	6.00					1		
Fill		:			i.			
Site Preparation		Review Site Preparation prior to fill	Y		Building Only	TL		
		placement				1.2	1	
Fill Placement		Review Compliance to Soils Repot						
		1. Material	Y	Sample	Building Only	TL		
		2. Lift Thickness	Y	Sample	Building Only	TL		
Evaluation		Review in-place dry density for	Y	Sample	Building Only	TL		
		compliance with soils report		1				

MAY-14-2004

Material/Activity	Item	Service	Y/N	Extent	Comments	Agent	Date	Rev
1705.8 Pile	7.00						1	
Foundations		<u> </u>						
Materials		1. Pile tip assembly	Y	Sample		TL		
		2. Pile Splice Assembly	Y	All		TL		
		3. Steel Pile Certifications	Y	All		TL/BSE		
Fabrication		Plant Certification	Y	Submit Certification		BSE		
Pile Driving		Review Pile Driving Records	Y	All		TL		
		2. Review Pile Driving Equipment &	Y	All		TL		
		Procedure						

COMMUNICATION No:36

MAY. 14 ' 04 (SAT) 14:03

PROJECT MEMORANDUM

FILE

To: Scott Blouin

Becker Structural Engineers

Portland, Maine

From: Matthew P. Lilley, E. I.

Charles R. Nickerson, P.E.

R. W. Gillespie & Associates, Inc.

Saco, Maine

cc: Owens McCullough, P.E.

Sebago Technics, Inc.

Philip Doughty, AIA

Philip J. Doughty Associates

Date: 17 October 2002

Subject: Seismic Site Parameters

New Jetway and Baggage Handling Addition

Portland International Jetport RWG&A Project No. 572-29

As requested R. W. Gillespie & Associates, Inc. is pleased to provide the following additional information for seismic design. In accordance with *The BOCA National Building Code / 1999*, the soil profile at the site is classified as S_1 , with a seismic coefficient "S" of 1.0. The effective peak acceleration coefficient (A_a) is approximately 0.12 and the effective peak velocity-related acceleration coefficient (A_v) is approximately 0.12. These coefficients should be used in conjunction with the design occupancy to determine the seismic hazard exposure group and seismic performance category.

We trust this information is complete and sufficient to meet the project's current needs. Please do not hesitate to contact us if you have any questions or need additional information.

R. W. Gillespie & Associates, Inc.

Page 2 of 2

Alternately, the canopy foundations may be designed as soil supported mat foundations with dimensions similar to or slightly larger than the proposed pile caps. Criteria for design of the mats is presented in our geotechnical investigation report dated 24 June 2002 (note: see section 6.2.2 Jetway Foundations).

We trust that the above information meets the current needs of the project. Please do not hesitate to contact us if you have any questions or if we can be of further service.

Very truly yours,

R. W. GILLESPIE & ASSOCIATES, INC.

Charles R. Nickerson, P.E.

Chief Geotechnical Engineer

CRN:ci

cc: Phillip J. Doughty, AIA - Phillip J. Doughty Associates
Owens McCullough, P.E. - Sebago Technics, Inc.
Joseph Hennessey - OEST Associates

FILE COPY



R. W. Gillespie & Associates, Inc.

Geotechnical Engineering • Geohydrology • Materials Testing Services

23 August 2002

Mr. Paul B. Becker, P.E. Becker Structural Engineers, Inc. 19 Commercial Street Portland, Maine 04101

Subject:

Jetport Canopy

Addition to Baggage Claim Area

Portland, Maine

RWG&A Project No. 572-29.GI

Dear Paul:

In accordance with our telephone conversations and your facsimile of 23 August 2002, R. W. Gillespie & Associates, Inc., (RWG&A) has evaluated foundation support options for the extension of the Jetport Canopy associated with the proposed addition to the baggage claim area. It is understood the canopy has, historically, been supported on pile foundations consisting of endbearing H-piles. This letter presents alternate measures to support and resist the loads provided in your facsimile.

Soil borings in the area of the addition indicate surficial fill over a relatively thin layer of stiff silty clay underlain by dense glacial till at a depth of about 12.5 feet below current ground surface. Based on the design information provided, it is anticipated that the bottom of the pile cap would be about 5 feet below ground surface and on the order of 4 feet thick. Loads based on above design are understood to result in design compressive and uplift loads of 85 and 35 kips per pile, respectively.

It is anticipated that the compressive capacities can be accommodated by driving the H-piles to the required end-bearing capacity. However, our calculations indicate that, due to the shallow depth to the glacial till, the current pile configuration which is based on a singular pile to resist uplift loads would not develop sufficient uplift resistance. Alternative measures to increase the uplift resistance would be to add more piles and change the pile type. In summary, our analysis indicates the following pile types, capacities and numbers:

Pile Type	Design Uplift Capacity	Nort P
10X42 H-Pile	9 kips	Number Required
12-inch Diameter Steel Pipe	15 kips	4 per foundation 3 per foundation
becorr ipe		

R. W. Gilles	pie & Associates, Inc.					
86 Industrial Park Road, Suite 4	200 International Drive, Suite 170	-	LETTER OF	TRANSMITTAL		
Saco, ME 04072	Portsmouth, NH 03801					
Tel: 207-286-8008	Tel: 603-427-0244					
Fax: 207-286-2882	Fax: 603-430-2041	Date:		Project No.:		
	F O D D	Attention:	06 Jan. 02	572-29		
	1) EGEVE	Re:	David Nadeau, EI	T		
Dufresne-Henry, Inc.	JAN - 7 2003	Re:	New Jetway and Baggage Handling Addition			
22 Free Street	DUPAZONE HENRY INC.		Portland Internation	Portland International Jetport		
Portland, ME 04101-390	A PORTIAND AME		-			
w						
We are sending you:	Enclosed Attached Under separat	e cover via	the follow	ving items;		
Copy of I	nvoiceCopy of Documentation/Details f	or Invoice Co	opy of Letter Cop	ies of Report		
One conv of our Report of	of Geotechnical Investigation dated 24	June 2002 for	a. c + v			
One copy of our letter to	Paul B. Becker, P.E., dated 23 Augus	June 2002 for i	ne referenced proje	ect		
One copy of our memoral	ndum to Scott Blouin of Becker Struct	ural Engineers	doted 17 Ontal - 2	1000		
	death to seek Bloam of Beeker Struct	urai Engineers	dated 17 October 2	:002		
			•			
Treta a service of the service of th	<i>(</i>					
These are transmitted:	As RequestedFor Your Use	For Approval	For Review and	d Comment		
Remarks:						

Copy To: John Finn, Phil Doughty Associates (trans.only)

Charles R. Nickerson, P.E.

If enclosures are not as noted, kindly notify us at once.

MAY. 13 '04 (FRI) 14:06

Report
of
GEOTECHNICAL INVESTIGATION
for
NEW JETWAY & BAGGAGE HANDLING ADDITION
PORTLAND INTERNATIONAL JETPORT

Prepared for SEBAGO TECHNICS, INC. WESTBROOK, MAINE

Prepared by R. W. GILLESPIE & ASSOCIATES, INC. SACO, MAINE

RWG&A Project No. 572-29

June 2002



Application for Barrier-Free Permit

Department of Public Safety Licensing & Inspections 164 State House Station Augusta, Maine 04333-0164

> Tel: 207-624-8744 x 1 Fax: 207-624-8767



	Project Name: PRITANO INTERNATIONAL DETPORT Street Location: 1001 WESTEROX ST Town Location: County: CUMPERIANO State: MAINE Zip Code: 0410 Z						
	New Building: Renovation: Change of Use: HO Project Cost: 6.9 MIL. Fee (fee schedule is on back): 250.00						
	Design Professional's Name: PHLIME J. DAIGHTY ASSIC, ALA. CSI						
	Mailing Address: 362 US RT Town: FALMANH State: MAINE Zip Code: 04105 Maine Registration Number: 1108 Design Professional's Signature: Pales Quelity Date: 4/21/04						
	Approved for Permit: Date: Plan Reviewer: Comments:						
	LOG # DATE PLANS REVIEW FEE PATE FEE CHECK # PLAN REVIEWER DATE PERMIT IN						
_	SSOED FERMIT S						

389 Congress St.Rm 315 Portland, ME 04101 Phone: (207)874-8700 Fax: (207)874-8716

facsimile transmittal

To:]	Phil Doughty	From:	Mike Nugen	t
Fax:	781-2908	Date:	May 12, 200	4
P <u>hone</u>		Pages:	1	
Re:J	etport Baggage expan	sion (208–A001)		
□ Urge	nt ☐ For Review	☐ Please Comment	☑ Please Reply	☐ Please Recycle
•	•	• •	• •	• •
L have of question	commenced a partial rens:	eview the submissions for	the above permit and	have the following
2) Ne	ere is no Statement of ed a statement from th form satisfactorily wit	Special Inspections pursue Structural Engineer cert	ant to Section 1705 stifying the ability of the	of the Code. he existing structure to
3) I di	dn't find the Geotechi	n the new Loads. nical report, was a copy so off on the project as of thi	ent?	
Figure 1				
	W			

TABLE OF CONTENTS

1.0 INTRODUCTION	1
2.0 SUBSURFACE EXPLORATION	Ì
3.0 LABORATORY TESTING	2
4.0 SUBSURFACE CONDITIONS	2
4.1 Subsurface	2
5.0 EVALUATION OF GEOTECHNICAL DATA	
6.0 RECOMMENDATIONS	2
6.1 Excavation and Filling	3 ∢
6.2.1 Baggage Handling Addition Foundations	1
6.2.2 Jetway Foundations	4
6.3 Ground Floor Slabs	c
6.4 Utilization of On-Site Materials	<
6.5 Geotechnical Observation	5
7.0 CLOSURE	5

FIGURES

Figure 1. Site Locus Map

Figure 2. Exploration Location Plan

APPENDIXES

Appendix A. Test Boring Logs

Appendix B. Laboratory Tests



FILE COPY

R. W. Gillespie & Associates, Inc.

Geotechnical Engineering • Geohydrology • Materials Testing Services

24 June 2002

Mr. Owens McCullough, P. E. Sebago Technics, Inc. P. O. Box 1339
Westbrook, Maine 04098-1339

Subject:

Geotechnical Investigation

New Jetway and Baggage Handling Addition

Portland International Jetport RWG&A Project No. 572-29

Dear Mr. McCullough:

As requested and authorized, R. W. Gillespie & Associates, Inc., (RWG&A) has conducted a geotechnical investigation at the site of the proposed jetway and the baggage handling addition at the Portland International Jetport. Included in this report are the findings of our field work and associated recommendations for foundation design and construction

Subsoils at the site consist of a gravelly sand fill over naturally deposited silty clay underlain by silty sand and gravel. Spread footings with a slab-on-grade ground floor are recommended for support of the baggage handling addition, and a soil supported mat foundation is recommended for the jetway supports.

We appreciate the opportunity to serve you on this project. If you have any questions or if we may be of further service, please contact us.

Very truly yours, R. W. GILLESPIE & ASSOCIATES, INC.

Matthew P. Lilley, E. I. Geotechnical Engineer

Charles R. Nickerson, P. E. Chief Geotechnical Engineer

CRN/MPL:ci
In duplicate

cc: Phillip Doughty, AIA, Phillip J. Doughty Associates Todd Neal, P.E., Becker Structural Engineers Joseph Hennessey, OEST Associates

Corporate Office - 86 Industrial Park Rd., Ste 4 • Saco, ME 04072 • 207-286-8008 • Fax 207-286-2882

Branch Office - 200 International Dr., Ste 170 • Portsmouth, NH 03801 • 603-427-0244 • Fax 603-430-2041

1.0 INTRODUCTION

This report presents the results of our geotechnical investigation for the proposed jetway and the baggage handling addition at the Portland International Jetport. The purpose of this investigation was to obtain information regarding subsurface conditions and soil properties on which to base recommendation for design and construction of foundations and ground floor slabs.

The proposed construction consists of an addition to the existing terminal building with additional baggage handling facilities and a new jetway to serve two aircraft parking positions. The baggage handling addition will be located on the east end of the terminal building. The area encompassed by the building addition is approximately 85 feet by 100 feet in plan. The jetway will consist of a fixed passenger boarding bridge and two apron passenger boarding bridges. The project location is shown on Figure 1, Site Locus Map.

2.0 SUBSURFACE EXPLORATION

The subsurface exploration program for this investigation consisted of six soil borings drilled to depths of 22 to 27 feet below the local surface at the locations shown on Figure 2, Exploration Location Plan. Three borings were drilled in the baggage handling addition area and three in the jetway area. Drilling was performed on 13 and 14 May 2002 by Great Works Pump & Test Boring, Inc., of Rollinsford, New Hampshire. Explorations were made with truck-mounted rotary drill rigs and solid-stem augers.

Standard penetration resistance tests were below the existing pavement and at 5-foot intervals thereafter. A pocket penetrometer was used on selected samples to estimate the undrained shear strength and two thin walled tube samples were taken in boring B-102. Recovered samples and auger cuttings were used to describe the soils and prepare the boring logs presented in Appendix A. Stratification lines shown on the boring logs represent the approximate boundaries between soil types encountered; the actual transitions may be more gradual and may vary over short distances.

Page 2 of 6

3.0 LABORATORY TESTING

All samples were visually examined and, when necessary, reclassified using the procedures of the Unified Soil Classification System. To aid in classification and to obtain an estimate of certain engineering properties, moisture content and grain-size analyses were performed on selected samples. Laboratory test results are presented in Appendix B.

4.0 SUBSURFACE CONDITIONS

4.1 Subsurface

Subsoils consist of fill, silty clay, and glacial till composed of silty sand with gravel. Thickness of the fill varies from 1 to 4.5 feet and consists of gravelly sand and sand. The encountered thickness of the silty clay layer was about 10.5 to 17.5 feet. Standard penetration resistance blow counts (N-values) indicate the clay is very stiff to soft. The N-values indicate the glacial till is medium to very dense

4.2 Groundwater

Free water was encountered at depths of 7 to 9 feet below local ground surface. Groundwater levels across the site will fluctuate due to season, temperature, precipitation, and construction activity in the area. Therefore, water levels during and following construction will vary from those observed in the subsurface explorations.

5.0 EVALUATION OF GEOTECHNICAL DATA

From a geotechnical standpoint, the site is appropriate for the proposed construction. Subsurface conditions are suitable for the use of shallow foundations such as spread footings with slab-on-grade ground floors for the baggage handling addition and a mat foundation for the jetway. Footings would bear on undisturbed silty clay or compacted structural fill. Due to the nature and thickness of the clay and the anticipated loads, post-construction settlements are anticipated to be less than one inch.

6.0 RECOMMENDATIONS

Foundation requirements and site development considerations are significantly affected by the subsurface conditions present at the proposed site. Comments and recommendations pertaining

RWG&A Project No. 572-29

Page 3 of 6

to foundations and site development are presented in the following sections. Foundation design and construction should be in accordance with all applicable requirements of the ICC International Building Code / 2000.

6.1 Excavation and Filling

- 1. All pavement, utilities, fill, and other unsuitable materials should be removed from the areas receiving new constructed facilities.
- 2. Site grading should provide positive drainage away from constructed facilities both during and after construction.
- 3. Dewatering requirements will vary across the site based on groundwater levels encountered during construction and soil type. In general, it should be practical to accomplish construction dewatering from within excavations by open pumping methods to depths of one to two feet below groundwater. Surface runoff and infiltration of groundwater should be controlled so that excavation, filling, and foundation construction can be completed in-the-dry.
- 4. Structural fill for support of foundations and floor slabs, and for use as backfill, should be a clean, well-graded sand and gravel mixture meeting the following gradation.

Structural Fill Gradation

Sugarar Slave Siza	Percent Passing
6 inches	100
3 inches	70 - 100
No. 4	35 - 70
No. 40	5 - 35
No. 200	0 - 5

Note: Maximum particle size limited to 3 inches within two feet of walls, pile caps, and ground floor slabs.

5. In open areas, structural fill should be placed in level, uniform lifts not exceeding 9 inches in uncompacted thickness and compacted with self-propelled compaction equipment. In confined areas, structural fill should be placed in lifts not exceeding 6 inches in uncompacted thickness (note: maximum particle size 3 inches) and compacted with hand-operated

Page 5 of 6

Seismic Design Parameters						
	Short Period	1-second Period				
	Site (Class D				
Mapped Spectral Accelerations (%g)	(S _s)	(S ₁)				
7 Pro Special Mediciations (%g)	37.2	9.8				
Site Coefficients	(F _a)	(F _v)				
	1.50	2.40				
Maximum Considered Earthquake	(S _{MS})	(S _{M1})				
Spectral Response Accelerations (%g)	55.8	23.6				
Design Spectral Response	(S _{DS})	(S_{D1})				
Accelerations (%g)	37.2	15.7				

13. Lateral foundation loads from wind and earthquake may be resisted by friction between the bottom of the spread/continuous footings or mat and bearing subgrade. A friction coefficient of 0.35 is recommended for use in design.

6.3 Ground Floor Slabs

14. Slab-on-grade ground floors supported on structural fill placed and compacted over the naturally deposited silty clay may be used for this project. No less than one foot of structural fill should be placed beneath the slab and compacted in accordance with the above recommended criteria. A modulus of subgrade reaction of 150 pounds per cubic inch may be used in the design of slab-on-grade floors.

6.4 Utilization of On-Site Materials

15. In general, on-site materials appear to be suitable for use as structural or common fill. On-site materials should be segregated and stockpiled. Further laboratory testing should be performed on stockpile samples to determine their suitability for use as structural or common fill.

Page 4 of 6

compaction equipment. Structural fill should be compacted to at least 95 percent of maximum dry density as determined by ASTM D1557, Test Method for Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft³ (2,700 kN-m/m³)).

6. Only structural fill should be used as fill to raise grade and support the proposed foundations and ground floors.

6.2 Foundations

6.2.1 Baggage Handling Addition Foundations

- 7. The proposed building may be supported on spread and/or continuous footings bearing on undisturbed naturally deposited silty clay. Footings should be designed for a maximum contact pressure of 3,000 pounds per square foot. Minimum footing width should be in accordance with concrete design and building code requirements, and not less than 2 feet.
- 8. Areas where utility trenches cross the building should be excavated to the bottom of the trench and backfilled with compacted structural fill.

6.2.2 Jetway Foundations

9. The proposed jetway may be supported on mat foundations designed for a maximum contact pressure of 4,500 pounds per square foot. A modulus of subgrade reaction of 150 pounds per cubic inch should be used in the design of a mat foundation.

6.2.3 General Foundation Recommendations

- 10. A smooth edged bucket should be used during footing excavation to minimize disturbance to the clay subgrade. The exposed subgrade should be protected from disturbance, moisture, and freezing until the footing concrete is placed.
- 11. It is recommended that design bottom of footing level for exterior footings bearing on undisturbed clay be a minimum of 4 feet below the lowest adjacent ground surface exposed to freezing.
- 12. The foundations should be designed to withstand lateral, uplift, and overturning forces due to earthquakes. In accordance with *The ICC International Building Code* / 2000 the following parameters should be used for seismic design purposes.

Page 6 of 6

6.5 Geotechnical Observation

16. Since the above geotechnical recommendations are based on limited numbers of observations and tests, the Owner should be particularly sensitive to the potential need for adjustments in the field. It would be in the best interests of the Owner and project to retain RWG&A to observe geotechnical construction aspects of the project, observe general compliance with the design concepts, specifications, and recommendations, and to assist in development of design changes should subsurface conditions differ from those anticipated. Such observation increases the likelihood of the design intent being considered adequately during construction and will allow RWG&A to confirm its design recommendations.

7.0 CLOSURE

This report has been prepared for specific application to the proposed jetway and the baggage handling addition at the Portland International Jetport and for the exclusive use of Sebago Technics, Inc. This work has been completed in accordance with generally accepted soil and foundation engineering practices. No other warranty, expressed or implied, is made. In the event that any changes are made in the nature or location of the project, the conclusions and recommendations of this report should be reviewed by RWG&A.

FDA Phillip Doughty Associates — Architects

362 U.S. Route One, Falmouth, ME 04105 Telephone: 207-781-5346

e-mail: pdarch@maine.rr.com Fax: 207.781.2908

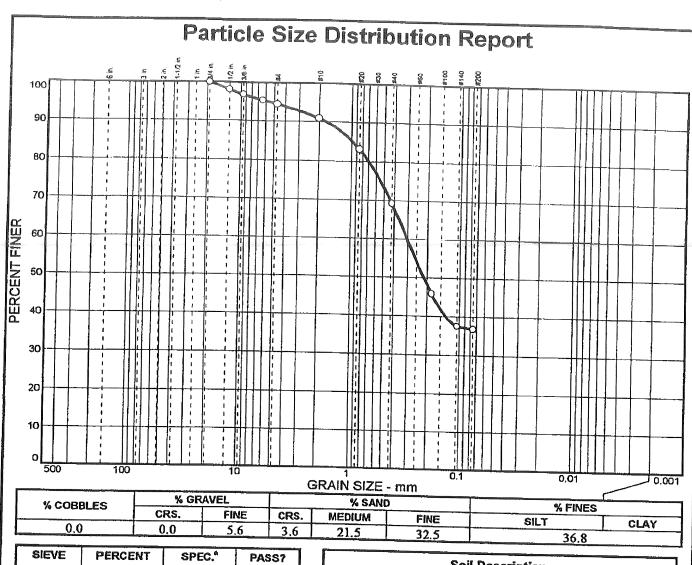
Fax

To:	Mike Nugent	From:	Sue Edwards
Company:	City Inspections		See Lewings
Fax:	874-8716	Pages:	36 (inc. cover)
Project #:	03C-002 Jetport Baggage Claim Permitting	Date:	May 13, 2004
	Geotechnical report	CC:	Paul Bradbury, File
□ Urgent	☐ For Review and Comment ☐ For Yo	our Use	□ Please call to confirm receipt

An Comments:

Following are

City of Portland Building Code Certificate (3 pages) State Fire Marshall Application for Construction Permit State Fire Marshall Application for Barrier-Free Permit Report of Geotechnical Investigation (30 pages)



SIEVE	PERCENT	SPEC.	PASS?
SIZE	FINER	PERCENT	(X=NO)
.75 in. .5 in. .375 in. .25 in. #40 #20 #40 #80 #140 #200	100.0 98.1 96.8 95.4 94.4 90.8 83.2 69.3 45.9 37.5 36.8		
(no spec	cification provided)	•

	Soil Description	1
•		
•		
PL=	Atterberg Limits	PI=
D ₈₅ = 0.975 D ₃₀ = C _u =	Coefficients D ₆₀ = 0.303 D ₁₅ = C _c =	D ₅₀ = 0.212 D ₁₀ =
USCS= SM	Classification AASH1	` O=
Moisture Conten	Remarks 14.5%	
Tested by AMA		

Sample No.: 1

Location: Portland, ME

Source of Sample: B-106

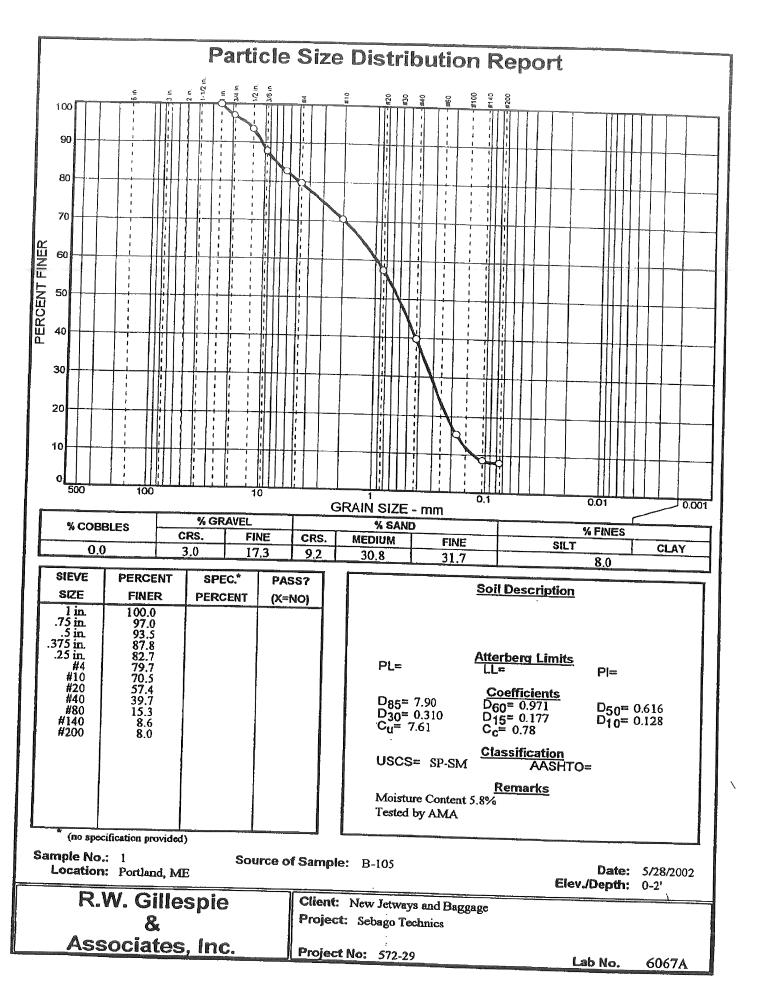
Date: 5/28/2002 Elev/Depth: 0-2'

R.W. Gillespie & Associates, Inc.

Client: New Jetways and Baggage Project: Sebago Technics

Project No: 572-29

6067B Lab No.



APPENDIX B

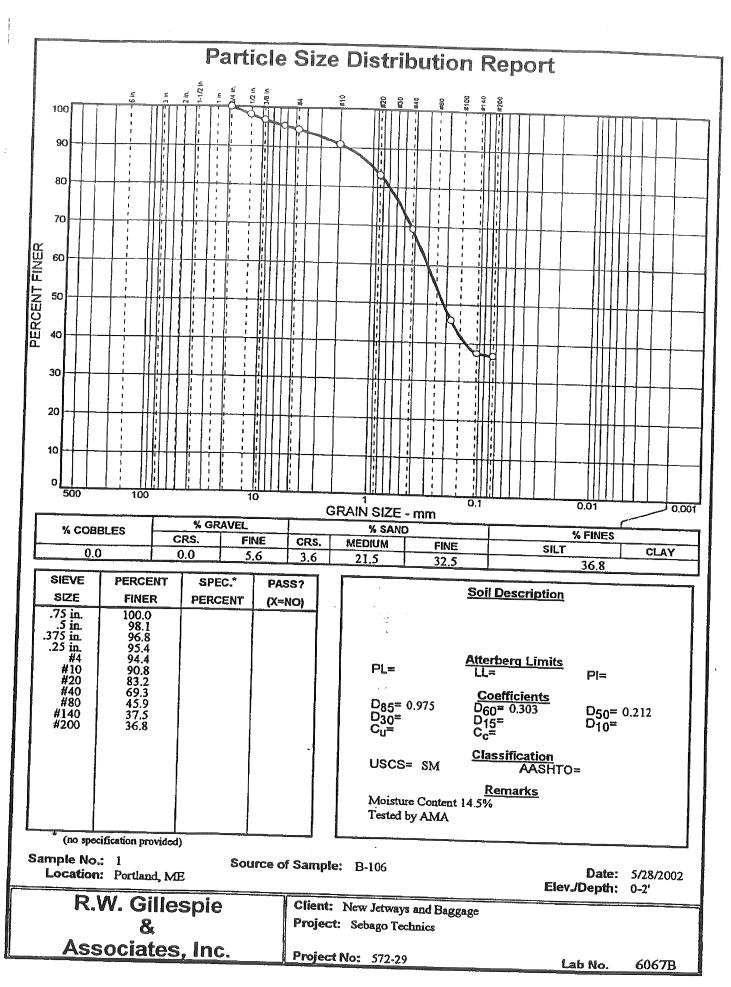
LABORATORY TESTS

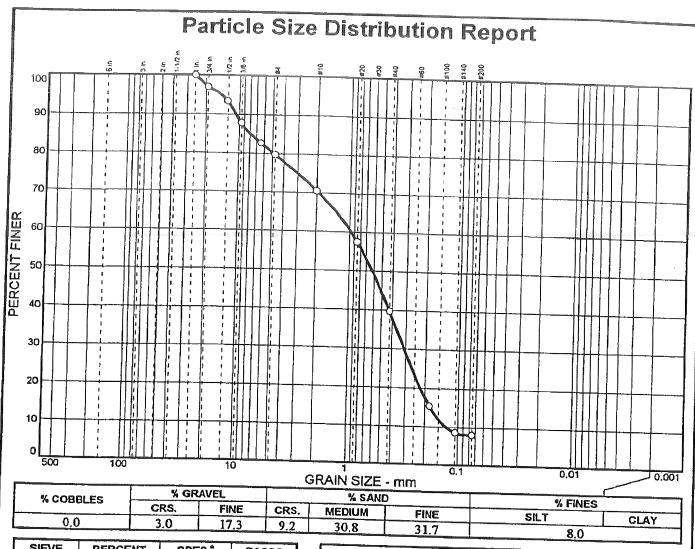
New Jetway & Baggage Handling Addition Portland International Jetport

roject: Portland Jetport BORING LOG B-106					
ocation: Portland, Maine	proxin	nate S	Surfac Grou	e Elev nd Wa	ation: 58.0 iter Depth:
llient: Sebago Technics Project No. 572-29				C	ate: 5/14/0
	z	T	T .	8	
SAMPLES SAMPLE # SAMP	SAMPLE RECOVERY, IN	BLOWS PER 6"	SPT-N BLOWS PER FT.	MOISTURE CONTENT 9	Lab Tests
S-1 TOPSOIL AND ORGANIC MATERIAL (0.5')	20	2	16	14.5	GS
FILL: Silty Sand with gravel, medium dense, moist, medium to fine sand, little silt, trace gravel, brown. SILTY CLAY (CL); hard, moist, olive brown. Pocket Penetrometer: Su = 4.5+ ksf	24	8 8 15	33	25.8	
S-3 Pocket Penetrometer: Su = 2.0 to 2.5 ksf		14 19 20			
	24	7 8 9 11	17	26.5	
S-4 Becomes medium stiff, wet, gray. SILTY SAND (SM); dense, wet, coarse to fine sand, little silt, little to trace gravel, gray. (Glacial Till)	24	3233	5	32.3	
Bottom of Exploration at 22': no refusal.	17	15 25 33 38	58		

MAY. 13 '04 (FRI) 14:19 COMMUNICATION No:20 PAGE. 33

raject: Port	BORING LOG B-105 land Jetport					
ocation: Po	rtland, Maine	A	proxi	mate Grou	Surfa nd Wa	ce Elevatio iter Depth:
llient: Sel Project No.	pago Technics 572-29				С	ate: 5/14/
		ż	1	Τ.	T .	
SYMBOL SAMPLES SAMPLE #		SAMPLE RECOVERY, IN.	BLOWS PER 6"	SPT-N BLOWS PER FT.	MOISTURE CONTENT %	Lab Tests
S-1	ASPHALTIC PAVEMENT (3.5") FILL: Gravelly Sand, dense, moist, medium to fine sand, little to some gravel, trace silt, brown. SILTY CLAY (CL); hard, moist, olive brown.	15	16 25 27 18	52	5.8	GS
\$-2	Pocket Penetrometer: Su - 4.5+ Iraf	24	6 12 17 17	29	6.8	
S-3		24	6 10 11 14	21		,
S-4	SILTY SAND (SM); medium dense to dense, wet, coarse to fine sand, little to some silt, little to trace gravel, gray. (Glacial Till)	18	8 12 22 25	34		
S-5	Bottom of Exploration at 22': no refusal.	17	18 15 9 8	24		





	SIEVE	PERCENT	SPEC.*	PASS?
	SIZE	FINER	PERCENT	(X=NO)
والمراجعة	1 in. .75 in. .75 in. .375 in. .25 in. #40 #20 #40 #80 #140 #200	100.0 97.0 93.5 87.8 87.7 79.7 70.5 57.4 39.7 15.3 8.6 8.0		

	Soil Description	
	844	
PL=	Atterberg Limits	PI=
D ₈₅ = 7.90 D ₃₀ = 0.310 C _u = 7.61	Coefficients D60= 0.971 D15= 0.177 C _c = 0.78	D ₅₀ = 0.616 D ₁₀ = 0.128
USCS= SP-SM	Classification AASHT	O=
Moisture Content Tested by AMA	Remarks 5.8%	

(no specification provided)

Sample No.: 1

Location: Portland, ME

Source of Sample: B-105

Date: 5/28/2002 Elev./Depth: 0-2'

R.W. Gillespie &

Associates, Inc.

Client: New Jetways and Baggage

Project: Sebago Technics

Project No: 572-29

Lab No.

6067A

APPENDIX B

LABORATORY TESTS

New Jetway & Baggage Handling Addition Portland International Jetport

BORING LOG B-106

Project: Portland Jetport Location: Portland, Maine

Approximate Surface Elevation: 58.04' Ground Water Depth: 8'

			;	.		
SYMBOL SAMPLES SAMPLE	DESCRIPTION OF MATERIAL	SAMPLE RECOVERY (N)	BLOWS PER 6"	SPT-N BLOWS PER FT	MOISTURE CONTENT %	Lab Tests
S-1	TOPSOIL AND ORGANIC MATERIAL (0.5')			16		GS
	FILL: Silty Sand with gravel, medium dense, moist, medium to fine sand, little silt, trace gravel, brown. SILTY CLAY (CL); hard, moist, olive brown. Pocket Penetrometer: Su = 4.5+ ksf		2 8 8 15			gs.
S-2 ♀		24	10 14 19 20	33	25.8	
S-3	Pocket Penetrometer: Su = 2.0 to 2.5 ksf	24	7 8 9 11	17	26.5	
S-4	Becomes medium stiff, wet, gray. SILTY SAND (SM); dense, wet, coarse to fine sand, little silt, little to trace gravel, gray. (Glacial Till)	24	3233	5	32.3	
S-5	Bottom of Exploration at 22': no refusal.	17	15 25 33 38	58		
S-5	ntile to trace gravel, gray. (Glacial Till)	17	15 25 33	58		

D	BORING LOG B-105					
Project: Port Location: Po	land Jetport rtland, Maine	A	pprox	imate Grou	Surfa	ce Elevatior ater Depth:
Client: Set	pago Technics			G, 00		
Project No. !	572-29			-	L)ate: 5/14/0
SAMPLE #		SAMPLE RECOVERY, IN.	BLOWS PER 6"	SPT-N BLOWS PER FT.	MOISTURE CONTENT %	Lab Tests
S-1	ASPHALTIC PAVEMENT (3.5") FILL: Gravelly Sand, dense, moist, medium to fine sand, little to	15	16 25	52	5.8	GS
5 S-2	some gravel, trace silt, brown. SILTY CLAY (CL); hard, moist, olive brown. Pocket Penetrometer: Su = 4.5+ ksf	24	27 18 6 12 17	29	6.8	
s-3	Pocket Penetrometer: Su = 2.5 to 2.75 ksf	24	6 10 11 14	21		•
S-4	SILTY SAND (SM); medium dense to dense, wet, coarse to fine sand, little to some silt, little to trace gravel, gray. (Glacial Till)	18	8 12 22 25	34		
S-5	Bottom of Exploration at 22': no refusal.	17	18 15 9 8	24		
R.W. Gill	espie & Associates, Inc.					

μ	Appro:	ximat Gro	e Surfa und W	ace Elevation ater Depth:
				Date: 5/14/0
1 -				
SAMPLE RECOVERY, IN	BLOWS PER 6"	SPT-N BLOWS PER FT.	MOISTURE CONTENT %	Lab Tests
19		27		
24	9 13 19 22	j		
24 ad,	6 9 9 11	18		
16	10 16 16 31	32		
15	15 25 43 32	68		
	19 24 24 Id. 16	19 15 18 7 24 9 11 10 16 16 131 15 25 43	19 15 27 32 18 9 11 16 16 31 32 15 43 15 43 15 43 15 43 15 43 15 43 15 15 43 15 15 15 15 15 15 15 15 15 15 15 15 15	16 16 16 16 16 16 16 16 16 16 16 16 16 1

Proie	ect:	Port	BORING LOG B-103					
Loca	tio	n: Po	rtland, Maine	proxir	nate S G	round	ce Elev	vation: 57.3(er Depth: 9's
Clier			pago Technics 572-29				ε	Date: 5/13/0
				1 -:	7		T	
DEPTH, FT.	SYMBOL	SAMPLES SAMPLE #	DESCRIPTION OF MATERIAL	SAMPLE RECOVERY, IN	BLOWS PER 6"	SPT-N BLOWS PER FT.	MOISTURE CONTENT %	Lab Tests
0	***	S-1	ASPHALTIC PAVEMENT (5").	+	+			
5		S-1	Fill: Gravelly Sand, dense, moist, medium to fine sand, some gravel, little to trace silt, gray. FILL: SAND (SP); dense, moist, medium to fine sand, little to trace silt, gray. SILTY CLAY (CL); hard, moist olive brown.	18	23 33 31	56		
			7 3 3 KS1	24	5 9 17 18	26	26.4	
		S-3	Becomes medium stiff. Pocket Penetrometer: Su = 2.0-2.5 ksf	24	3 6 8 9	14	47.9	
		S-4	Becomes soft, wet, gray.	24	WOR		37.6	
		S-5	SILTY SAND (SM); with gravel, medium dense to dense, wet, coarse to fine sand, little silt, trace to little gravel, gray. (Glacial Till)	8	6 7 8 9	15		
	G. C.	S-6	Bottom of Exploration at 27', no refusal.	4	11 18 28 34	46		

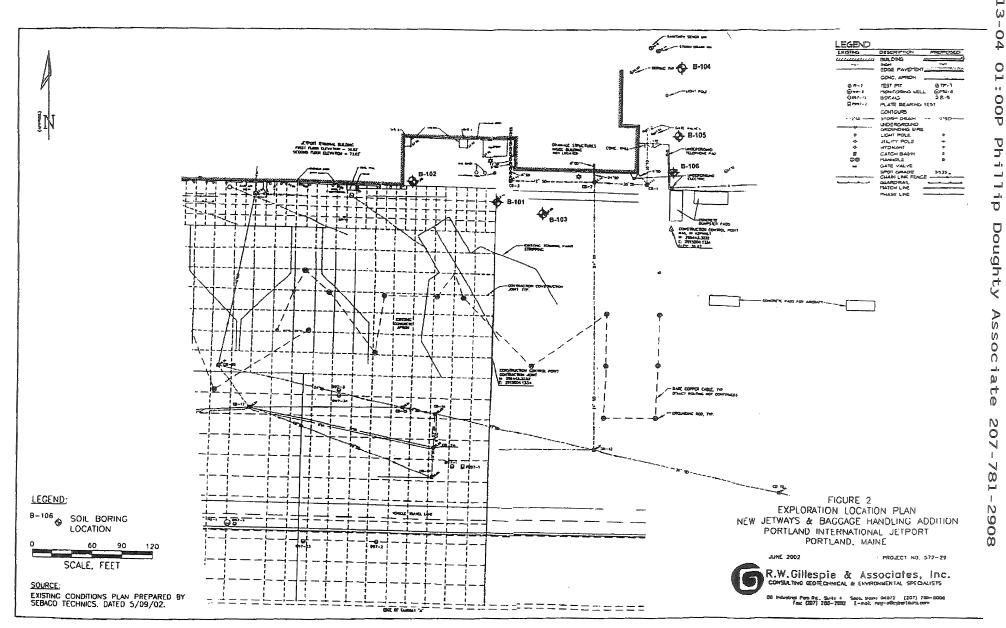
BORING LOG B-102					
Project: Portland Jetport Appointment Appo	proxin	nate S G	Surface round	e Elev Wate	ation: 57.83 r Depth: 9'±
Client: Sebago Technics				D	ate: 5/13/0:
Project No. 572-29		T	·1	T	
SAMPLES SAMPLES SAMPLE	SAMPLE RECOVERY, IN.	BLOWS PER 6"	SPT-N BLOWS PER FT.	MOISTURE CONTENT %	Lab Tests
S-1 ASPHALTIC PAVEMENT (5"). FILL: Gravelly Sand, dense, moist, medium to fine sand, some	21	24	51		
gravel, little to trace silt. SILTY CLAY (CL); hard, moist, olive brown.		29 22 25			
S-2 Pocket Penetrometer: Su = 4.5+ ksf.	24	5 10 11 14	21		
U-1 Becomes medium stiff.	24/24				
U-2 Becomes wet, gray.	24/ 24				
S-3 SILTY SAND (SM); dense, wet, coarse to fine sand, little silt, little to trace gravel, gray.					
S-4	10	10 16 23	39		
Bottom of Exploration at 22': no refusal.		19			
R.W. Gillesnie & Associates Inc.					

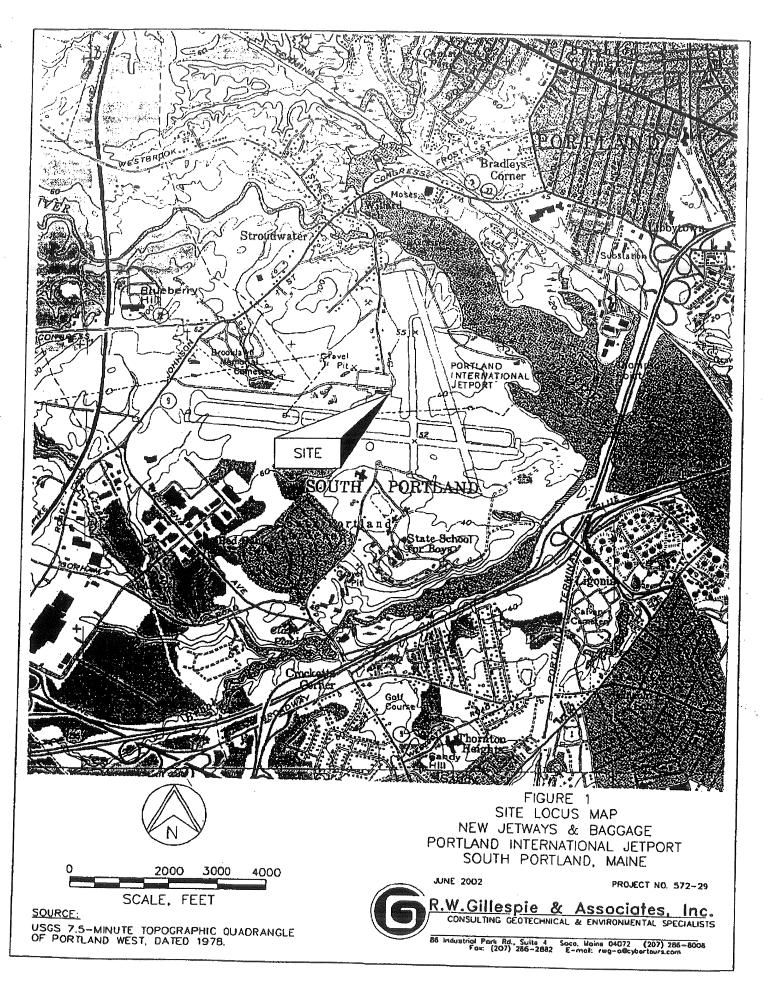
Project: Por	BORING LOG B-101	rovim	12¢0 C	Cuetoo	a Eta.	
	Tidho, Manie	n Oxiiii	G	round	Wate	ation: 57.41 r Depth: 9'±
Client: Se Project No.	pago Technics 572-29				D	ate: 5/13/0:
SYMBOL SAMPLES	DESCRIPTION OF MATERIAL	SAMPLE RECOVERY, IN.	BLOWS PER 6"	SPT-N BLOWS PER FT.	MOISTURE CONTENT %	Lab Tests
S-	FILL: Gravelly Sand, dense moist, medium to fine sand, little to some gravel, trace silt, gray. FILL: Sand, medium dense to dense, moist, medium to fine sand, trace gravel, little to trace silt, gray.	18	20 30 33 38	63		
5 S-:	SILTY CLAY (CL); hard, moist, olive brown. Pocket Penetrometer: Su = 4.5 ksf	24	7 9 16 16	25	25.3	
S-3	Pocket Penetrometer: Su = 2.5 - 3.0 ksf	24	3 6 6 7	12	29.3	
S-4	Becomes medium stiff, wet, gray.	24	1 1 2 2	3	34.5	
S-5	SILTY SAND WITH GRAVEL (SM); medium dense, wet, coarse to fine sand, some silt, little to trace gravel, gray (Glacial Till).	16	4 6 8 10	14		
5 - S-6	Bottom of Exploration at 26.3': spoon refusal, possible boulder or bedrock.	15	8 12 50/ 3"	62+		

APPENDIX A

TEST BORING LOGS

New Jetway & Baggage Handling Addition Portland International Jetport







Application

Department of Public Safety State Fire Marshel's Office 52 State House Station

Construction Permit Augusta, Maine 04333-0052 SHADED AREAS ARE FOR OFFICE USE ONLY (10-03) Tel: 207-624-8744 x 1 Fax: 207-624-8767 Project Information Project Name: PORTLAND INTERNATIONAL JETPORT Street Location: 1001 WEST BROOK ST Town Location: Tortland County: CUMBERLAND " MF. Number of Stories: 2 + MECH. PENTHOUSE Renovation: New Building: Addition: Sprinkler System: (Yes) No Supervised: Yes No Square Footage: 25,604 Date of Construction Start-up:___ 5/04 Estimated Project Cost: 56,900,000 Date of Construction Completion: 5 /05 Construction Permit Fee: @. 8-5 ×8000 ×400 - 8 (Fee schedule is an back) @.02 × 17. 60 4 = 352 Occupancy Classification Apartments Nursing Home Educational I Hotel / Motel Industrial Daycare Rooming & Lodging [Residential Care Level I Congregate Housing [Detention Residential Care Level II Business Hospital Limited Care Mercantile A B C # 17,600 UN-OCCUPIE Construction Type Fire Resistive: Type I (443), (332) Unprotected Ordinary: Type III (200) Protected Non-Combustible: Type II (222), (111) Heavy Timber: Type IV (2HH) Unprotected Non-Combustible: Type II (000) ผมชิญ Protected Wood Frame: Type V (111) Protected Ordinary: Type III (211) (FIRST FLOOK) Unprotected Wood Frame: Type V (000) Addresses Owner's Name: Par and INT'NE JETRORT Telephone: 774-7301 Fax: 774-7740 Mailing Address: 1001 WESTSROOK ST Town: BRITAIN, MAINE State: ____ Zip Code: 04/02 Design Professional: Phulip J. Daketry ASSOC Telephone: 781-5344 Fax: 761-2908 Maine Registration Number: 1108 E-mail: PPARCH @ MAINE, RR.COM Mailing Address: 362 US RT#1 Town: FALMATH, MEINE State: ____ Zip Code: 04105 General Contractor: LEDGE WOOD INC Telephone: 767-1866 Fax: Mailing Address: 27 HAINE ST TOWN: SO PORTLAND State: MAINE Zip Code: 04106 Signature of Applicant: Hulling) 4-21-04 Preliminary Approval: Date: Approved By: Construction Permit: Date: Approved By: Date: Approval Letter: Approved By: -When a permit la not required LOG# REVIEW FEE CHECK# PLAN REVIEWER DATE PERMIT

TO:



CITY OF PORTLAND BUILDING CODE CERTIFICATE 389 Congress St., Room 315 Portland, Maine 04101

Inspector of Buildings City of Portland, Maine

Division of Housing & Community Service
FROM DESIGNER: BECKER STEVET URAL ENGINEERS INC.
75 YORK ST. RUZTLAND, ME 04101
DATE: APRIL 23, 2004
Job Name: EASTERLY EXPANSION OF BAKKING CLAIM FACILITY
Address of Construction: POLITIANO INTERNATIONAL JETROET POLITIANO, ME
THE BOCA NATIONAL BUILDING CODE / 1999 (FOURTEENTH EDITION) Construction project was designed according to the building code criteria listed below:
Building Code and Year 1999 Use Group Classification(s) Mixed USE
Type of Construction TYPE 2C
Structural Systems
Hardquake Loads CO Ground Snow Load (Pg) At If Pg > 10 psf. Flat Road snow load. Pf Coll Peak sceleration. As Coll Peak scele
Wind Loads 65 Basic Wind Speed C. Wind Exposure Category 18.5 Wind Design Pressure 1.23 Wind Importance Factor

Portland, Matter 04101

• (207) 874-8703 • PACSIMILE (207) 874-8716 • TTY (207) 874-8916

ON INCESSION LINEWS CHURCH OF FE I (187) PO RE MAY



CITY OF PORTLAND BUILDING CODE CERTIFICATE 389 Congress St., Room 315 Portland, Maine 04101

Т	\cap	
Ł	V.	

Inspector of Buildings City of Portland, Maine Department of Planning & Urban Development Division of Housing & Community Service

FROM:

RE:

Certificate of Design

DATE:

These plans and / or specifications covering construction work on:

INTERNATIONAL JETPORT BAGGAGE CLAIM

EXPANSION -1001 WESTBIZOOK ST PORTLAND MAINE Have been designed and drawn up by the undersigned, a Maine registered Architect / Engineer according to the BOCA National Building Code / 1999 (Fourteenth Edition)

and local amendments. THITHE EEST FAR KNOWEDGE.

PHILLIP J. DOUGHTY.

As per Maine State Law:

\$50,000.00 or more in new construction, repair expansion, addition, or modification for Building or Structures, shall be prepared by a registered design Professional.

Signature

Firm: PHICHPJ. DOKHTY

Address: 362 U.S. RT

FALMANH, MAINE 04/05

MAY. 13 '04 (FRI) 14:04 COMMUNICATION No:20 PAGE 4



CITY OF PORTLAND MAINE DEPARTMENT OF TRANSPORTATION AND WATERFRONT PORTLAND INTERNATIONAL JETPORT **FACILITIES DEPARTMENT**

FAX

Fax to: Mike Nugent

Date: 04 30 04

Re: Easterly Bag Claim Project

Fax No: 874 8716

From:

Roy Williams

Fax No:

(207) 774-7740

Tel. No:

(207) 756-8314

Message:

Mike

As per my recent email attached are the two schedules that I have received from Ledgewood Inc to date. One schedule is an overview of the coming month of May and the other is an overall project schedule covering the year.

Please call me if you have any questions

Regards

Roy Williams

APR. 3

04

(SAT)

11:37

COMMUNICATION No: 38

PAGE.

5/3/2004

G.C. & Subcontractors Backge & Driver Troining G.G. & Subcontractors G.G. &	Activity Description	Area	Resp	Start Date	End Date	3	4	5	6	7 8	9	10	11 1	2 1:	3 14	15	6 5 1) 7 1	8 1	9 2	0 2	ī 22	23	24	25	26	27	28	2013	āī
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	e: 4/29/04 pared By: Ken Scott							<u> Т</u>			<u> </u>													I						

Page 1

	tural engineers vation Report 033 al Review	Date: 12/2/2004 Time: 10:00 AM Temp: 34 F Weather: Partly Cloudy/showers
Project:	Portland Jetport Baggage Claim Addi Portland, ME	
Job #:	826	
Location:	Walked through the whole addition.	
	Satisfactory Not Completed Not Completed Not Country Not Country	Unsatisfactory Not Completed N/A
Notes:	Reviewed installation of reinforcement for Mo	echanical Pads. Confirmed 6" max height with Polina
Signed:	Todd M. Neal	Date: <u>12/2/2004</u>

Becker Structural Engineers, Inc

75 York Street Portland, Maine 04101

Phone: (207) 879-1838 Fax(207) 879-1822

BE	CKER		Date: <u>1/6/2005</u>
struc	tural engineers		Time: 10:00 AM Temp: 34 F
Ohseni	ation Report 034		Temp: 34 F Weather: Cloudy and snowy
	al Review		Joseph State
		'	
Project:	Portland Jetport Baggage Claim Ad		
	Portland, ME		
Job #:	826		
Location:	Walked through the whole addition.		
	7		
	Satisfactory Unsatisfactory Not Completed. N/A.	Satisfactory Unsatisfactory Not Completed	
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	Bolt Condition Weld Condition		
•	Weld Location		
	Cover Plates Epoxy Adhesive		
	Fitup		
	Grouting		
Notes:			
		1	
Signed:	Todd M. Neal	Date:	1/6/2005
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10.000		The state of the s	

Becker Structural Engineers, Inc.

75 York Street Portland, Maine 04101 Phone: (207) 879-1838 Fax(207) 879-1822

	CKER	Date: 2/17/2005 Time: 10:00 AM Temp: 40 F Weather: Sunny
Project:	Portland Jetport Baggage Claim Add	<u>fi</u>
Job #:	826	
Location:	Exsting 2nd Floor at Y/35 & Y/38	
	Satistactory Not Completed Weld Condition Weld Location Cover Plates Epoxy Adhesive Fitup	Satisfactory Unsatisfactory Not Completed N/A
Notes:		
Signed:	Todd M. Neal	Date: <u>2/17/2005</u>

Becker Structural Engineers, Inc.

75 York Street Portland, Maine 04101

Phone: (207) 879-1838 Fax(207) 879-1822

03300

BE	CKER Date: 3/16/2005 Time: 8:00 AM
	Temp: 45 F ation Report - 036 Weather: partly sunny -Place Concrete
Project:	Portland Jetport - Baggage Claim Expansion Portland, ME
Job #: Location:	826 Cast-in-place wall infill placement first floor between gridlines W/35 and W/38.
Notes:	And the side of the form. And the side of the form.
Signed:	Todd M. Neal, P.E. Date: <u>11/23/2004</u>

Becker Structural Engineers, Inc.

75 York Street Portland, Maine 04101

03300

BE	CKER	Date: 3/21/2005				
struci	tural engineers	Time: <u>8:00 AM</u> Temp: <u>40 F</u>				
Observa	ation Report - 036A	Weather: sunny				
Cast-in	n-Place Concrete	-				
Project:	Portland Jetport - Baggage Claim Expansion	4453				
	Portland, ME	जना।				
Job #:	826					
	Pre-placement review of Phase II stab on grade					
LOOUTGIT	Tre-placement tempor of Friese it study of grade					
	W					
	L Desiration of the second of					
	ory ory	ony sted				
	Satisfactory Unsatisfactory Not Completed N/A	Satisfactory Unsatisfactory Not Completed Semantial Interests				
	tisfa satis t Co	Batis LCO CO				
	명 등 경 정 X Reinforcement Size					
	X Quantity	x Vapor Retarder				
	X Condition X Placement					
	X Embed/Anchors					
	X Laps/ Splices Reinf. Weld					
	X Hot Weather					
	X Cold Weather					
Notes:	BSE discussed adding additiona chairs and several	location where the lap splices were not sufficient. We also pointed out				
		d to be high. Ledgewood confirmed that all these issues had been				
	addressed via e-mail at the end of the day.					
	AMERICAN II					
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Signed:	Todd M. Neal, P.E.	Date; 11/23/2004				
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	All desired and the second and the s					

Becker Streemral Engineers, Inc

75 York Street Portland, Mains 04101

	CKER tural engineers ation Report 037 ural Steel	Date: 3/29/2005 Time: 11:00 AM Temp: 45 F Weather: Cloudy
Project:	Portland Jetport - Baggage Claim E Portland, ME	<u></u>
Job #:	826	
Location:	2nd Floor gridlines 29 to 38	
	Satisfactory Satisfactory Satisfactory Satisfactory Satisfactory Satisfactory Satisfactory Satisfactory Weld Condition Weld Condition Weld Location AB's, Nuts & Wash Grout/Level PLs Plumbness/Fitup Mtl Deck Welds Pour Stops Bracing	Satisfactory Unsatisfactory Not Completed NVA
Notes:	Repairs completed as per sketches da of this and will repair.	ated 3/29 except Y.1/32 and W.1/38. Ledgewood informed
Signed:	Todd M. Neal	Date: <u>3/29/2005</u>

Becker Structural Engineers, Inc.

75 York Street Portland, Maine 04101

CKER tural engineers ation Report 038 c Retrofit	Date: 4/4/2005 Time: 10:00 AM Temp: 50 F Weather: Partly Cloudy/showers
Portland Jetport Baggage Claim Add Portland, ME	<u>i</u>
826	
Y/35, Y/38, X/35, and X/38	
Satisfactory Note: A complete of the condition of the co	Satisfactory Unsatisfactory Not Completed
the south side. Remainder to be comp	
Todd M. Neal	Date: 4/4/2005
	Portland Jetport Baggage Claim Add Portland, ME 826 Y/35, Y/38, X/35, and X/38 At the time of this review the retrofit at the south side. Remainder to be completed by the south side.

75 York Street Portland, Maine 04101

BE	CKER tural engineers	Date: 4/5/2005 Time: 2:30 PM
		Temp: 57 F
Observa	ation Report 039	Weather: Partly cloudy
Structu	ral Steel	
Project:	Portland Jetport - Canopy Expansio	<u>n</u>
Job #:	826	
Location:	From grid 15 to 18	
	Ab's, Nuts & Wash A Weld Condition Weld Location AB's, Nuts & Wash Grout/Level PLs Plumbness/Fitup Mtl Deck Welds Pour Stops Bracing	Satisfactory Unsatisfactory N/A N/A
Notes:	lower canopy next to grid 18 is welded I to date. Detail SKSCP-5 was not fully co	vas in the process of being erected. Piece A4 (2-L3X2X1/4) less than the 4" specified. SKSCP-7 was not addressed completed- welds are insufficient at flange plates and tab. ext to grid 15 was not installed. Connections between the
•		vere field welded and not bolted as specified. The
		ed from the top. They should be welded top and bottom.
Signed:	Scott M. Blouin	Date: 4/5/2005

Becker Structural Engineers, Inc.

75 York Street Portland, Maine 04101

B E	CKER	Date: 4/15/2005
ştruc	tural engineers	Time: 4:00 PM
		Temp: 45 F
	ation Report 039A	Weather: Sunny
Seismi	c Retrofit	
Project:	Portland Jetport Baggage Claim Ad	di
	Portland, ME	
		
Job#:	826	
Location:	Y/35, Y/38, X/35, and X/38	
LOGATION,	1700, 1700, 2700, and 2700	
÷		
	ory	ony
	Satisfactory Unsatisfactory Not Completed N/A	Satisfactory Unsatisfactory Not Completed N/A
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	X Bolt Condition X Weld Condition	- - - - - - - - - -
	Weld Location	
	X Cover Plates X Epoxy Adhesive	
	X Epoxy Adriesive	
	X Grouting	
N 1 . (At the Common of the control of the	Mor a Mar I
Notes:		Y/35 & Y/38 includes only the beam reiforcement on
	the south side. Remainder to be comp	
		een plate and existing concrete. Ledgewood to fill with
	ероху.	
	- Name of the state of the stat	
	, and the same of	
Signed:	Todd M. Neal	Date: <u>4/14/2005</u>
and the same of th		
leçker Structı	ıral Engineers, inc	75 York Street Phone: (207) 879-1838

Portland, Maine 04101

Fax(207) 879-1822



Memorandum

TO:

÷,

Phil Doughty

FROM:

Scott Blouin, P.E.

DATE/TIME:

April 12, 2005

SUBJECT:

WO 1207- Jetport Canopy Special Inspections

Phil,

A question came up at the Portland Jetport Canopy jobsite concerning what welds have to be inspected. This information is provided in Section 05120 – STRUCTURAL STEEL of the project specification. Refer specifically to 3.02 C for all inspection requirements.

Please contact me if there are any questions about this requirement.

T. .

Struct Observa	CKER tural engineers ation Report 040 aral Steel	Date: 4/11/2005 Time: 3:30 PM Temp: 47 F Weather: Partly cloudy
Project:	Portland Jetport - Canopy Expansion	<u></u>
Job #:	826	•
Location:	From grid 15 to 18	
	Bolt Condition X	Satisfactory Unsatisfactory Not Completed N/A
in a	observation report 039: Piece A1 (not ess than the 4" specified. SKSCP-7 wa completed as shown in sketch. The hor from the top. They should be welded to all anchor bolts. Two were missing at th	A4) (2-L3X2X1/4) lower canopy next to grid 18 is welded in the process of being installed. SKSCP-5 welds were exontal angle bracing at lower canopy was still only welded of and bottom. SKSCP-8 was completed. Install washers at e 6" diameter column at grid 18. At grid 15 the truss bot lified. The field weld is sufficient as long was it is minimum remed by weld inspector.

Becker Structural Engineers, Inc.

75 York Street Portland, Maine 04101

Project: _	al Steel					Temp: Weather:	
F	Portland Jetport - Canopy Expansion Portland, ME	1					
Job #: 8	826						
Location: <u>F</u>	From grid 15 to 18			•		. 1.	
					-1/2		
)	X Bolt Condition X Weld Condition X Weld Location X AB's, Nuts & Wash Grout/Level PLs Plumbness/Fitup Mtl Deck Welds Pour Stops Bracing	Satisfactory	Unsatisfactory	Not Completed	N/A		
Pi sp W at a	the time of my observation canopy mediece A1 was welded on 3 sides, about specified, but after investigating the designation of	of von tool of the second of t	weld rce niss e cl	d po for sinç evi ge	era tha gat sco	angle. This is at particular p the pipe colu onnections w steel plate (m	less than what was originally blece, it is acceptable. Jumns. The deck support angle with 2" dia, pin should have to be
Signed: So	cott M. Blouin	D	ate:	***		4/18/2005	

Portland, Maine 04101

	tural engineers vation Report 042 ural Steel	Date: 4/19/2005 Time: 12:30 PM Temp: 62 F Weather: Sunny
Project:	Portland Jetport - Canopy Expansion	on
Job #:	826	
Location:	From grid 15 to 18	
Notes:	Actorial State of the service weld be serviced as the service weld and condition of the service weld be serviced by the service welding and condition of the service well and the service well and the service well and the service welli	Clevises and Pins Clevises and Pins Clevises and Pins f clevis and pins white on the lower and upper canopy roofs.
	unacceptable. Pins shall be used at the	Its were used to replace 1 1/2" pins at grid 15. This is see clevises. Replace temporary cotter pins with standard. Its were used to replace 1 1/2" pins at grid 15. This is see clevises. Replace temporary cotter pins with standard. Iter of pin to edge of steel plate is 3 1/2" as specified.
	Scott M. Blouin	Date:4/19/2005

Ве

75 York Street Portland, Maine 04101



Special Inspections Interim Report

No. 04

TQ:

Paul Bradbury, P.E., Roy Williams @ Portland International Jetport

FROM:

Todd M. Neal, P.E.

DATE/TIME:

April 22, 2005

Project:

Portland International Jetport Additions and Alterations

Easterly Expansion of Baggage Claim Facility

Demolition and excavation for this project began in the first part of July and we started our Special Inspections on July 16, 2004. The following is a summary of the work completed through April 22, 2005.

Baggage Claim Addition

At this time baggage carousel #3 is operational and the 1st floor of the addition has been turned over to the Jetport. There is no floor covering due to moisture issues in the slab. Based on this issue the slab detail was revised by PDA for Phase II slab.

The slab on grade for Phase II has been completed.

It was noted in a correspondence for Roy Williams that the baseplates and anchor bolts on the second floor from column line 29 to line 38 were not installed correctly. BSE was aware of this situation based on our work with Ledgewood during the erection of these pieces. Repair sketches were submitted to Ledgewood and the work completed.

At the contractor's request and the Jetport's approval BSE revised the seismic retrofit design from the carbon fiber details indicated on the contract drawings to steel plates as indicated on SKST-19. At the time of this report this work had been completed within the extent of the Phase II.

Canopy Extension

At this time the canopy structure is substantially complete and we are waiting for testing reports from R. W. Gillespie to complete this portion of the Special Inspections Program.

If you have any questions or would like additional clarification please do not hesitate to contact us.

CC: Phil Doughty @ PDA, Mike Nugent @ the City of Portland. Attachments: Observation Reports 33 to 42

75 York Street, Portland, ME 04101-4701 ■ Tel 207-879-1838 ■ Fax 207-879-1822



PHASE 2 REPORT OF SPECIAL INSPECTIONS

PROJECT: F	ortland International Jer Lasterly Expansion of Ba	port, Additions and Alterations:	
LOCATION: P		7-2	
PERMIT APPLIC	CANT: Ledgewo	ood, Inc.	111111111111111111111111111111111111111
APPLICANT'S A	DDRESS: P.O. Box	8107, Portland, Maine 04104	
STRUCTURAL E	ENGINEER OF RECOR	D: Todd M. Neal, P.E Bed	eker Structural Engineers, Inc.
		Name	Firm
ARCHITECT OF	RECORD:	Phillip J. Doughty - Phill	ip J. Doughty Associates
•		Name	Firm
GENERAL CONT	TRACTOR:	Peter Benard - Ledgewoo	
To the best of my and described in the	information, knowledge ne Statement of Special	, and belief, the Special Inspection Inspections submitted for the pro	ons required for this project,
The following disc 2/28/05 and have	repancies that were not	ed since the Phase 1 Report of Sp	pecial Inspections report, dated
2. Seismic Retro	fit was changed from	ine 29 to 38 were corrected as carbon fiber to steel plates as evised to have the vapor retar ised by Architect.	detailed on SKST-19
Note: This report Gillespie to confir	does not include the model welds and boited c	canopy. BSE is waiting for fir onnections.	nal inspection reports for
(Use additional she	ets, if necessary)		A LIZ LIKELI A LIZARI
Interim reports sub Inspections, form	mitted to this final repor a basis for, and are to be	t and numbered 01 to 03 and Pheconsidered an integral part of the	HANTIMANTAPASIT.
Submitted By: SPECIAL INSPEC Todd M. Neal, P.E. NAME		William A State of the State of	TODD M. NEAL # 9406
The state of the s		1/1/1	William IIII
SIGNATURE	DATE		140.146

Special Inspector's P.E. Seal

75 York Street, Portland, ME 04101-4701 • Tel 207-879-1838 • Fax 207-879-1822

Becker Structural Engineers, Inc.



75 York Street Portland, ME 04101-4550 207.879.1838 phone 207.879.1822 fax

TO:

John Reed @ City of Portland

FAX NO:

874-8716

FROM:

Todd Neal, P.E.

DATE/TIME:

April 25, 2005/10:05 AM

SUBJECT:

Phase 2 Report of Special Inspection

Portland International Jetport, Additions and Alterations, Easterly Expansion

of Baggage Claim Facility

John,

Attached is the Phase 2 report. Please call if you have any questions

Çc:

Cuyler Feagles @ 879-2282 Roland @ Ledgewood 879-1985

Roy Williams @ Portland International Jetport 774-7740

04/30/2004 10:37

2077747740

PORTLAND JETPORT

Act ID	Description	Orig Dur	Early S t art	Early Finish	2004 NPF MAY JUN JUL AUG SEP OCT NOW DEC JAN SEB	2005 제설은 실우는 제설을 보낸 기설은 실우는 기술을 보낸 기술을
3200	Framing/Finishes	5	03FEB05	09FEB05	■ Frami	ng/Finishes
PHA	SE 3		L			
4500	Temporary Construction	2	10FEB05	11FEB05	i Tem;	orary Construction
4600	Bldg demo	3	14FEB06	16FEB05	- I Bkiş	demo
4700	Concrete	5	17FEB05	23FEB06	■ G	inciare
4800	WEP	10	24FEB05	09MAR05		WEP
4900	Baggage Equipment	20	10MAROS	06APR05		Baggage Equipment
5000	Framing/Finishes	5	07APR05	13APR05		■ Framing/Finishes
PHAS	SE 4					
3700	Temperary Construction	2	14APR05	15APR05		I Temporary Construction
3800	Bidg demo	3	18APR05	20APR05		■ Bldg demo
3900	Concrete	ð	21APR05	27APR05		M Concrete
4000	WEP	10	28APR05	11MAY05		M/E/P
4200	Framing/Finishes	6	12MAY05	18MAY05		■ Framing/Finish
4300	Project Closeout	5	19MAY05	25MAY05	·	m Project Clase
		· · · · · · · · · · · · · · · · · · ·				
itert deta inlah de	9 19APRO4 te 25MAYO5			L	edgewood, Inc.	Early bar
Pate date 19APR04 Run date 22APR04 Page number 2A Portland		Progress bar				
		d International Jetport	Critical bar			
				Bag	gage Claim Facility	Summary bar
					iminary Schedule	Start milestone point
@ Primi	evera Systems, Inc.		-		Dated: 4/19/23	Finish milestone point

PAGE	
0 2	

Jour		Orig Dur	Barly Start	Early Finish	2004 2005 APR MAY JUN JUL AUG SEP OOT NOV DEC JAN FEB MAR APR MAY JUN JU	IL
1000	ASE 1					
1000	Permits/Contracts/Submittals/Mobilize	20	19APR04	14MAY04	Permits/Contracts/Submittals/Mobilize	
1100	Temporary Construction		17MAY04	21MAY04	Temporary Construction	
1200	Site work	120	24MAY04	05NOV04	Site work	
1300	Site Utility relocations	10	24MAY04	04JUN04	Site Utility refocations	
1400	Bidg dema- East of 38 line	10	Q7JUN04	18JUN04	Bidg demo- East of 38 line	
1500	Concrete	25	21JUN04	23JUL04	Concrete	
1600	Structural Steel	10	2BJUL04	06AUG04	Structural Steel	
1700	Precast systems/Bidg envelope	25	09AUG04	10SEP04	Precast systems/Bidg envelope	-
1800	M/E/P	30	13SEP04	22OCT04	M/E/P	
1900	Baggage Equipment	20	25OCT04	19NOV04	. 	
2000	Framing/Finishes	10	22NOV04	03DEC04		
AH¢:	SE 2			L	Framing/Finishes	
300	Temporary Construction		06DEC04	6555001		1
			U0DECU4	08DEC04	■Temporary Construction	
600	Bldg demo	6	09DEC04	15DEC04	₩ Bidg demo	
700	Concrete	5 1	16DEC04	22DEC04	m Concrete	Į
000	WEP	10 2	23DEC04	05JAN05		
100	Baggage Equipment	20 0	I6JAN05	02FEB05	Baggage Equipment	
				<u></u>		
irt date Ish dai				n		ĺ
a date	19APRQ4			Le	dgewood, Inc.	
etsb o			;	Dartland	Progress ba;	
-	3,7 6		•	roruaniu i Baaaa	International Jetport	
				nayy	ge Claim Facility Summery bar	
				Prelin	ninary Schedule Start milestone point	
Prima	vera Systems, Inc.				24ad- 4/10/22	
- hiteli@	s as a harealid 1116'				Finish milestone point	

BUILDING PERMIT INSPECTION PROCEDURES Please call 874-8703 or 874-8693 to schedule your

inspections as agreed upon

Permits expire in 6 months, if the project is not started or ceases for 6 months.

The Owner or their designee is required to notify the inspections office for the following inspections and provide adequate notice. Notice must be called in 48-72 hours in advance in order to schedule an inspection:

By initializing at each inspection time, you are	agreeing that you understand the
inspection procedure and additional fees from	
Work Order Release" will be incurred if the p	rocedure is not followed as stated
below.	
Pre-construction Meeting: Must be sch receipt of this permit. Jay Reynolds, Developmer also be contacted at this time, before any site wor single family additions or alterations.	nt Review Coordinator at 874-8632 must
Footing/Building Location Inspection:	Prior to pouring concrete
Re-Bar Schedule Inspection:	Prior to pouring concrete
Foundation Inspection:	Prior to placing ANY backfill
Framing/Rough Plumbing/Electrical:	Prior to any insulating or drywalling
use.	to any occupancy of the structure or NOTE: There is a \$75.00 fee per ction at this point.
Certificate of Occupancy is not required for certain you if your project requires a Certificate of Occupatinspection	n projects. Your inspector can advise ancy. All projects DO require a final
hase, REGARDLESS OF THE NOTICE OR (e project cannot go on to the next CIRCUMSTANCES.
CERIFICATE OF OCCUPANICES MUBEFORE THE SPACE MAY BE OCCUPIED	·
Keluw m 7/mgo	5/26/04
Signature of Applicant/Designee/	Date
Barry Ald males	D/Note
ignature of Inspections Official	Date
BL: Building Permit #:	40501

Valuation: 3, 631, 463.	BOCA [®] NATIONAL BUILDING CODE/1999 PLAN REVIEW RECORD	Plan Review # 040501
Fee: 32,78/600	PORTLAND	Date: 5/5/04
BUILDING LOCATION	(City, County, Township, etc.) /001 WSTBRWK	
BUILDING DESCRIPTION	JET PORT BAGO	DAGE CLAUM
REVIEWED BY	Q Chysian	
as indicated in this record is limited to the sections. It does not reference all code p	opticable code sections of the 1999 BOCA National Buse code sections specifically identified herein. This reprovisions which may be applicable to specific building capable of exercising competent judgement in evaluations.	cord references commonly applicable code gs. This record is designed to be used only

CORRECTION LIST				
No.	DESCRIPTION	Code Section		
l	PLEASE SPECIFY THE "MIXED USE" 3" S.S. MESH - LADDER IN WIKKES			
2	3" S.S. MESH - CADDER IN WEEKEL			
15	LANGER ONLY			
4	EXTRAION STAIRS OFEN RISERS X			
	BALLUSTER CONFIGURATION			
5	NRED TREAD + RISER DIMENSIONS			
	ON A17-			
6	9/ALG HANDRAIL 33" ABOUL NOSING)			
у				



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BUILDING OFFICIALS AND CODE ADMINISTRATORS INTERNATIONAL, INC. 4051 W. FLOSSMOOR ROAD COUNTRY CLUB HILLS, ILLINOIS 60478-5795 PHONE (800) 214-4321 FACSIMILE (800) 214-7167 WEB SITE HTTP://WWW.BOCAI.ORG

		8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	ION (Chapt	
	Complete construction of (107.5, 107.6, 107.7)			Signed/sealed construction documents (107.7, 114.1)
	BUILDING	PLANNIN	G (Chapteı	rs 3, 4, 5, 6)
/ _	USE OR OCC	CUPANCY CLA	ASSIFICATION	(302.0-313.0)
3/A3	Single Use Group			Specific occupancy areas (302.1.1)
	Mixed Use Groups			Accessory areas (302.1.2)
	GENERAL I	BUILDING LIN	IITATIONS (Ch	apters 5 & 6)
inale use arou	o determine the allowable l ip or nonseparated mixed u construction for a building	use groups. Apply	Case 2 to determ	s of construction for a building containing a ine the allowable height and area and perpups.
	А	REA MODIFICAT	TIONS TO TABLE 5	503
% Reduction fo	ge factor $3000000000000000000000000000000000000$		Open perimeter (506.2) Open perim. % Open per % Tab. area (506.2)	increase = $\frac{29 - 35 - 54 - 200\%}{2 \times (\% \text{ Open perim25\%})}$
				JSE GROUPS (313.1.1) out the most restrictive of the nonsenarated
miyad usa arai	une Construction types th	at provide an allo	wable tabular area	o or the most restrictive of the nonseparated a equal to or greater than the adjusted floo than the actual building height are permitted
Actual floor are	еа 2026	ft. ²	Actual building	
	area* <u>26 04</u>	O ft. ²	Allowable build	ding height 🥏 feet 🥌 storie

CASE 2 — MIXED USE SEPARATED USE GROUPS (313.1.2)

Using Table 503, identify the allowable height and area of each of the separated use groups within the building. Construction

ypes that prallowable hei	ovide, for ea	ach story of the b	puilding, tabular a 504.0) equal to or (reas which result	in a sum of the	ne ratios of 1.00 or less and the use group are permitted.
Story	Use Group A-3 S WAR	Actual floor area 20, 24 (ft² 13, 175 ft² 15² ft² 15² ft² 15² ft² 15² ft² 15² ft² 15²	Adjusted floor area* 26 040 ft² 44, 000 ft² ft² ft² ft² ft² ft² ft² ft²	### Actual height ###################################	stories stories stories	Allowable height (Table 503) ft stories
-		tual floor area/co				
$\sum \frac{Adjuste}{Allowable}$	ed floor area	$\frac{1}{2} * \frac{1}{502} = \frac{1}{100} + \frac{1}{1$] 1 70 ++	= <= 1	.00 .	w (602.3)
Permitted typ	es of constr	ACC	VXCLOS Type o	f construction assu	ımed for revie	w (6023) 2
ommios typ	01 0011011			IE-STORY BUILDI		(002.0)
	Use gro	oup classification	(507.1)		School build	lings <i>(507.1.1)</i>
	Building	g height (story, fe	et) <i>(507.1)</i>		High-hazard	l use groups <i>(507.1.2)</i>
	Type of	construction (50	7.1)	<u> </u>	Exteriorwal	te (507.2)
	Automa	atic sprinkler/syste	em <i>(507.1, 9</i> 04.12)		
	// Area lir	mitation <i>(5∅5.2)</i>	MEZZA	ANINES	// Openness (505.4)
		(505.3)				,
	_	,	USE AND OC	CUPANCY (CI	napter 4)	
COVERED M	ALL BUILD	INGS			Parking stru	ctures <i>(402.15)</i>
	Tenant	separations (402)	(4)		Smoke cont	rol (see Atriums)
$-\!\!-\!\!/\!/$	Egres	(402.5)		HIGH-RISÆ-BUI	LDINGS	
/_	Mall wi	dth <i>(402.6)</i>			Automatic s	prinkler system <i>(403.2)</i>
	Structu	ral elements (404	(.7)	4/_/	Alternative s	sprinkler modifications (403.3)
_/	Roof co) overings <i>(402.8)</i>		<i>H</i> ——1)	Automatic fi	re detection (403.4)
<u> </u>	A-1/, A-:	2 occupancy (40%	2.9)	<u>/</u> /	Voice/alarm	signaling systems (403.5)
/	Ayltoma	atic sprinkler syste	erjn (402.10)		Fire departr	nent communication (403.6)
	Stand	/ ipes <i>(402.11</i>) /	/	/	/	nd station (403.7)
	1/	partment access	`(402.12)		Elevators (4	1
	1/	equirements (402				tems/(403.9)
	J. JOSK II	oquii omento (402	. 1-1/		Stairway do	ors (403.10)

ATRIUMS	Public garages (408.0)
Automatic sprinkler system (404.2)	/ Use Group I-2 <i>(409.0)</i>
// Occupancy (404.3)	Use Group I-3 (410.0)
	Stages and platforms (412.0)
	Special amusement buildings (413.0)
(Fire alarm system (404.6)	HPM facilities <i>(416.0)</i>
Travel distance (404.7)	Hazardous materials (307.8, 417.0)
OTHER SPECIAL USE AND OCCUPANCY Underground structures (405.0)	Use Groups H-1, H-2, H-3 and H-4
Open parking structures (406.0)	Swimming pools (421.0)
Private garages (407.0)	
FIRE PROTECTION	(Chapters 6, 7, 8, 9)
FIRERESISTANT MATERIALS AND CON	ISTRUCTION (Chapter 7 and Table 602)
Note: Entry in indicates required rating in hours. NC	FIRE PARTITIONS
indicates noncombustible construction required.	<u>NoN∈</u> Exit access corridors (711.0,1011.4)
COMBUSTIBILITY (603.0, 604.0, 605.0, 606.0)	Tenant separations (711.0)
Exterior walls	Dwelling unit separations (711.0)
Interior elements	Guestroom separations (711.0)
/V/Roof	OTHER EIRERESISTANT CONSTRUCTION
CONSTRUCTION DOCUMENTS (703.0)	Fire and party walls
Fire tests (704.0)	(707.0 and Table 707.1)
EXTERIOR WALLS (507.2, 705.0, 716.6)	Smoke barriers (712.0)
North East South West	Nonloadbearing partitions (Table 602)
Fire separation distance MORK THAN 30' ALL AROUND	Interior loadbearing walls, columns, girders, trusses (716.0)
Loadbearing	Supporting construction (716.0)
Nonloadbearing	Floor construction (713.0, 1006.3.1)
(705.3, 706.0)	Roof construction (713.0, 715.0)
Continuity of exterior walls (705.6)	Penetrations (714.0)
FIRE SEPARATION ASSEMBLIES Exit enclosures (709.0, 710.0, 1014.11)	Opening protectives (717.0, 719.0, 720.0)
2HR Other shafts (709.0, 710.0)	Fire dampers (718.0)
Mixed use and fire area separations	Fireblocking/draftstopping (721.0)
(313.1.2)	Thermal and sound-insulating materials (723.0)
Other separation assemblies (302.1.1, Table 602)	(. – 5,6)

INTERIOR FINISHES (Chapter 8)

	Smoke development (803.3.2)		Floor finish <i>(805.0, 806.0)</i>
	Flame spread (803.4)		Interior hangings and decorations (807.0)
	FIRE PROTECTION	SVSTEMS (Ch:	anter 9)
	11112 111012011014	3131 LIVIS (CIT	Apter 3)
FIRE SUPPRES	SSION SYSTEMS (Where required)	FIRE SPRINKL	ER SYSTEMS*
	Assembly (A-1, A-3, A-4) (904.2)	$\overline{}$	NFPA 13 system <i>(906.2.1)</i>
	Assembly (A-2) (904.3)	Validation	NFPA 13R system <i>(906.2.2)</i>
	Educational (E) (904.4)		NFPA 13D system <i>(906.2.3)</i>
	High-hazard (H) (904.5)		Design <i>(906.3)</i>
	Institutional (I) (904.6)		Actuation <i>(906.4)</i>
	Mercantile (M), Moderate-hazard		Sprinkler alarms (906.5)
	storage (S-1), Factory and Industrial (F-1) (904.7)		Sprinkler riser (906.7)
	Residential (R-1) (904.8)	*See also Sprin	kler Plan Review Record
	Residential (R-2) <i>(904.9)</i>	·	
	Residential care (904.10)	LIMITED AREA	SPRINKLER SYSTEMS
	Windowless story (904.11)	$\overline{}$	Where permitted (907.2)
	Specific occupancy areas (302.1.1,		Design <i>(907.3)</i>
	904.12)	1_0	Actuation (907.4)
	Covered mall buildings (402.10)		Standpipe connection (907.6)
	High-rise buildings (403.2, 403.3)		Domestic supply (907.6.1)
	Atriums (404.2, 404.3)		Cross connection (907.6.2)
	Underground structures (405.3)		Shutoff valve (907.6.3)
	Public garages (408.3.1)		*
	Sound stages (411.7)	OTHER SUPPR	ESSION SYSTEMS
	Stages and enclosed platforms (412.6)		Water-spray fixed systems (908.0)
	Special amusement buildings (413.4)		Carbon dioxide extinguishing systems
	HPM facilities (416.4)		(909.0)
	Paint spray booths and storage rooms (419.3)		Dry-chemical extinguishing systems (910.0)
	Unlimited area buildings (507.1)		Foam-extinguishing systems (911.0)
	Exit discharge lobbies (1020.4)	+	Halogenated extinguishing systems (912.0)
	Drying rooms (2808.4)	KT	Clean agent fire extinguishing systems
	Waste- and linen-chutes/termination rooms (2809.6)		(913.0)
	Refuse vaults (2810.4)	—— <i>V</i> ——	Wet-chemical range hood extinguishing systems (914.0)

STANDPIPE SY	STEMS	AUTOMATIC FIRE DETECTION SYSTEMS		
/	Building height (915.2.1)	PER PFI	Approval <i>(919.3)</i>	
<u> </u>	Building area (915.2.2)		Institutional (I) (919.4.1, 919.4.2, 919.4.3	
$\frac{1}{V}$	Malls (915.2.3)		Residential (R-1) (919.4.4)	
	Stages (915.2.4)		Sprinklered buildings exception (919.5)	
	Approved system (915.3, 915.3.1)	/	Zones (919.6)	
	Piping design (915.4)	SINGLE- AND M	MULTIPLE-STATION SMOKE	
-A	Water supply (915.5)	DETECTORS		
//_	Control valves (915.6)	\	Residential (R-1) (920.3.1)	
	Hose connection (915.7)		Residential (R-2, R-3) (920.3.2)	
FIRE DEPARTM	ENT CONNECTIONS	-	Institutional (I-1) (920.3.3)	
PER	Required (916.1)		Interconnection (920.4)	
PPD	Connections (916.2)		Battery backup (920.5)	
YARD HYDRAN ⁻	. ,	FIRE EXTINGUI	SHERS	
DAR PA)	PER PE	(<i>)</i> Approval <i>(921.1)</i>	
	Fire hydrants (917.1)		Required (921.2)	
FIRE ALARM SY		SMOKE CONTROL SYSTEMS		
PER PAL	Approval (918.3)	NR	Passive system (922.2.1)	
	Assembly (A-4), Educational (E) (918.4.1)		Mechanical system (922.2.2)	
	Business (B) (918.4.2)		Smoke removal (922.3)	
	High-hazard (H) (918.4.3)	Addition to the second	Activation (922.4)	
4	Institutional (I) (918.4.4)		,	
	Residential (R-1) (918.4.5)		Standby power (922.5)	
	Residential (R-2) (918.4.6)	SMOKE AND HE	EAT VENTS	
	Location/details (918.5)	1000	Size and spacing (923.2)	
	Power supply/wiring (918.6, 918.7)	SUPERVISION		
	Alarm-notification appliances (918.8)	PER PE	Fire suppression systems (924.1)	
	Voice/alarm signaling system (918.9)	AND COMMENTS OF THE PARTY OF TH	Fire alarm systems (924.2)	

Refuse vaults (2810.4)

OCCUPANT NEEDS (Chapters 10, 11, 12)

MEANS OF EGRESS (Chapter 10)

OCCUPA	NT LOAD <i>(1008.0 and Table 1</i>	008.1.2)		F EGRESS COMPONEN I Table 1009.2)	TS
Location	Floor + Sq.ft./ = Occt. Area + person = load	Other occt. Totaloads	Ot-:	(inch/occupant)	
15T. 200 UN	7300 = 3 = 2433 11,200 = (00 GRUSS 1455(6NED (CARC	29 - By U5 Geo	Stairways Doors/ram DOORS/RACITY	nps/corridors	
	16.8 REQUIALL		 Location	Stairways DI-48 STNG	Doors/ramps corridors
			/	44.1	
		-3 64	LOSINCE		
			577200.	20	
			 NUMBER OF E		
			Location	Required SER ABOVC	Shown
			<u>2</u> ND		<u> </u>

	MEANS OF EGRI	ESS (continu	ed)			
	General limitations (1005.0)	NoNE	Ramps <i>(1016.0)</i>			
	Air movement in egress elements (1005.7)		Means of egress doorways (1017.0)			
	Types and location of egress (1006.0)	_//	Number of doorways (1017.2)			
	Exit access travel distance (1006.5 and Table 1006.5)		Size of doors (1017.3)			
WA	Accessible means of egress (1007.0)		Door hardware (1017.4)			
MR	Emergency escape (1010.4)	-	Revolving doors (1018.0)			
NA	Exit access passageways and corridors (1011.0)		Horizontal exits (1019.0)			
NIA	Aisles and accessways (1012.0)		Discharge from exit stairways (1020.0)			
WIA	Grandstands (1013.0)		Guards (1021.0)			
	Interior stairways (1014.1 - 1014.11)		Handrails (1022.0)			
}	Exterior stairways <i>(1014.1 - 1014.10.</i>		Exit signs and lights (1023.0)			
NA	1014.12)		Means of egress lighting (1024.0)			
	Smokeproof enclosures (1015.0)	_/_	Access to roof (1027.0)			
ACCESSIBILITY* (Chapter 11)						
	Required (1103.0) Accessible route (1104.0) Parking facilities (1105.0))hR	Special use groups (1107.0) Features and facilities (1108.0)			
	Accessible entrances (1106.0)		Warnings and signage (1109.0)			
*See also Access	sibility Plan Review Record					
¥	INTERIOR ENVIRONM	IENT (Chapte	er 12)			
MA	Room dimensions (1204.0)	h//	Air-borne noise (STC) <i>(1214.2)</i>			
	Roof spaces (1210.1, 1211.2)	1/1	Structure-borne sound (IIC) (1214.3)			
	Crawl spaces (1210.2, 1211.1)	(1)	Ratproofing (1215.0)			
	BUILDING ENVELOPE (Chanters	·			
			•			
	Construction documents (1403.0)	1/				
	Construction documents (1403.0) Performance requirements (1404.0)		Wall sidings and veneers (1405.0, 1406.0) Combustible material restrictions			
*See Energy Cons	eervation Plan Review Record		(1407.0)			

ROOFS AND ROOF STRUCTURES (Chapter 15)

Low-slope roof coverings (1507.5) Flashing (1508.0) Roof structures (1510.0) 6 (Chapters 16, 17, 18)
DS (Chapter 16)
Internal pressure coefficient (Table 1609.7[6])
Wind design pressure, P (1609.7)
Earthquake loads (1603.6, 1610.0) Peak velocity-related acceleration, Av (1610.1.3) Peak acceleration, Aa (1610.1.3) Seismic hazard exposure group (1610.1.5) Seismic performance category (1610(1.1)) Soil-profile type (Table 1610.3.1) Basic structural system and seismic-resisting system (Table 1610.3.3) Presponse modification factor, R, and deflection amplification factor, Cd (Table 1610.3.3)
Analysis procedure (1610.4, 1610.5) Other loads Attic load (1606.2.2, 1606.2.3) Partition loads (1606.2.4) Concentrated loads (1606.3) Impact loads (1606.6) Misc. loads (1606.4, 1606.8, 1606.9, 1607.5, 1612.0) STRUCTURAL DESIGN CALCULATIONS Submitted for all structural members (107.7)

		_							
TRUCTURAL D	ESIGN CALCULATIONS (continued)								
	Signed/sealed (107.7, 114.1)	1/	Drift snow loads considered (1608.6)						
	Deflection limits considered (1604.5)	1/-0.00	Internal pressure effects considered (1609.7, 1609.8)						
	Sliding snow loads considered (1608.4.1)	/_	Components and cladding effects considered (1609.8)						
	Unbalanced snow loads considered (1608.5)		Load combinations considered (1613.1)						
TESTS AND INSPECTIONS (Chapter 17)									
	Material performance technical data or		Masonry construction (1705.5)						
	BOCA International Evaluation Services or National Evaluation Services report supplied (1703.0) Report	NA	Wood construction (1705.6)						
	No Owner's special inspection program		Prepared fill and foundations (1705.7, 1705.8, 1705.9)						
	specified (1705.0)	NIT	Fireresistive materials (1705.12)						
	Prefabricated items (1705.2)		Wall panels and veneers (1705.10,						
	Steel construction (1705.3)		1705.13)						
	Concrete construction (1705.4)								
	FOUNDATIONS AND RETAIL	VING WALLS	(Chapter 18)						
\sim	Soil type (1611.0, 1802.1, 1804.1)		Foundations (1814.0 - 1824.0)						
3000 PSF	Bearing value (1611.0, 1802.1, 1804.1)		Foundation walls (1611.0, 1812.0)						
	Soil report (1802.1, 1804.1)		Waterproofing/dampproofing (1813.0)						
	Prepared fill (1804.1.1)	Nat	Retaining walls (1611.0, 1825.0)						
	Footings (1806.0 - 1811.0)	·							
	STRUCTURAL MATERIALS	G (Chapter	s 19, 21, 22, 23)						
,	CONCRETE (
03300 X	CONSTILL								
05/601	Plain, reinforced and prestressed concrete design/construction standard specified (1901.1, 1903.1.1)		Minimum concrete strength (Table 1907.1.2[1])						
	Minimum slab requirements (1905.1)		Cold-weather and hot-weather curing specified (1908.9, 1908.10)						
1/00	MASONRY (Chapter 21)	ONG E						
W D	Engineered masonry design/construction standard specified (2101.1.1)		Cold-weather and hot-weather 5 construction specified (2111.3, 4						

Empirical masonry design (2101.1.2)

Construction materials (2104.0)

Mortar type (2104.7)

-13-

Fireplaces and chimneys (2103.2, 2113.0 - 2117.0)

Glass block (2118.0)

7262 0 Spec	STEEL (C	hapter 22)		LIGHT-TRA	ANSMITTING PLASTIC (2604.0-2610.0)).		
0).	standard specified (2203.1, 2203.2)	standard s	I design/construction specified <i>(2206.1)</i>		Diffusing systems (2604.5) Wall panels (2605.0)		Roof panels <i>(2607.0)</i> Skylight glazing <i>(2608.0)</i>	
	Shop drawing preparation specified (2203.4)	(2206.6) A / B	I member identification		Unprotected openings (2608,0)		Plastic canopies (2610.0)	
V	Open-web steel joist design/construction standard specified (2205.1)		tance — steel stud walls		BUII DING SER	VICEC+ (OL		
	WOOD (C	hapter 23)				VICES* (Chapter		
	Installation inspections (2301.2)	Foundation a	anchorage <i>(2305.17)</i>			L SYSTEMS (Chapter	28)	
	Design/construction standard specified (2303.1)		uirements <i>(2306.0)</i> ural panels <i>(2307.0)</i>		Equipment platforms (2805.0) Plenums (2807.0)	1/0/4	Waste- and linen-handling systems (2809.0)	
	Grade mark specified (2303.2) CONSTRUCTION	Particleboard					Refuse vaults (2810.0)	
		Fiberboard (2	2309.0)		ELEVATORS AND CO	NVEYING SYSTEMS (Chapter 30)	
	Minimum dimensions (605. 1, 2304.0) Design/construction standard specified	Fireretardant-	-treated wood <i>(2310.0)</i>		Construction standard specified (30	001.2)	/enting <i>(3007.3 - 3007.6)</i>	
	(2304.1)		ermite protection (2311.0)		Elevator emergency operation (800 Hojstway enclosure (3007.1)	- 58	pening protectives (3008.2)	
WOOD FRAME	ONSTRUCTION	Joist har gers	s (2312.0)		,		Conveyors and escalators (3010.0,	
	Fastening and construction details (2305.0, Table 2305.2)	Prefabricated 23/13.2)	components (2313.1,	*See also Med	chanical, Plumbing and Electrical Plan F	Review Records	3011.0)	
	Wind bracing design required (2305/7) Seismic bracing (2305.8)	/ Metal-plate-co	onnected trusses 2313.3.2)	S	PECIAL DEVICES AND	CONDITIONS (C	Chapters 31, 34)	
					SPECIAL CONS	STRUCTION (Chapter	04)	
N	IONSTRUCTURAL MATER	RIALS (Chapters 24,	25, 26)		Membrane structures (3103.0)			
	GLASS AND GLAZ	ZING (Chapter 24)	ŕ		Flood-resistant construction (3107.0)	PEDESTRIAN WAL		
$\frac{1}{2}$	Design loads (2404.0)	Safety glazing	g (2405.0, 2406.0, 2407.0)	·	Towers (3108.0)		onstruction and use <i>(3106.1 - 3106.3)</i> paration <i>(3106.4)</i>	
NCH	Skylights (2405.0)							
	GYPSUM BOARD AND	PLASTER (Chapter 25)					cal approval <i>(3106.5)</i> (eas and size <i>(3106.6 - 3106.8)</i>	
<i>V</i>	Gypsum board materials (2503.0, Table 2503.2, Table 2503.3)	Plaster (2504.	.0, 2505.0, 2506.0)					
0	PLASTIC (Chapter 26)				EXISTING STRUCTURES (Chapter 34)			
	Approved materials (2601.2)	FOAM PLASTIC (2603.0)			ADDITIONS, ALTERATION	IS OR CHANGE OF OCCU	PANCY	
	Identification (2601.4)	Labeling (260	03.2)		General requirements (3402.0)	/	itions/alterations <i>(3403.0, 3404.0)</i>	
//	Interior trim (2603.7)		ng characteristics (2603.3)		Structural loads (1614.0, 3402.5)	/ / //	nge of occupancy <i>(1110.3, 3405.0)</i>	
<u> </u>	Alternative approval (2603.9)		er <i>(2603.4)</i> <i>(2603.5, 2603.6)</i>		Accessibility (1110.0, 3402.7)		pliance alternative evaluation (3408.0)	

BUILDING EVALUATION SUMMARY (Table 3408.7)

Existing use group					
Year building was constructed			Heig	ht in feet	
Type of construction					
Percentage of open perimeter _			Percentage of height reduc	tion	
Completely suppressed:	Yes	No			
Compartmentation:	Yes	No	Required door closers:	Yes	No
Fireresistance rating of vertical o				440040000000000000000000000000000000000	
Type of HVAC system Automatic fire detection:		N.I	•		
Fire alarm system:	Yes		, type and location		
Smoke control:	Yes Yes	No, No,			
Adequate exit routes:	Yes	No,		Yes	No
Maximum exit access travel dista		110	Elevator controls:	Yes	
Means of egress emergency ligh		No	Mixed use groups:	Yes	
Safety		Fire	Means		General
parameters		safety (FS)			safety (GS)
3408.6.1 Building height		, , ,		,	
3408.6.2 Building area					
3408.6.3 Compartmentation					
3408.6.4 Tenant and dwelling uni	t separations				
3408.6.5 Corridor walls					
3408.6.6 Vertical openings					
3408.6.7 HVAC systems					
3408.6.8 Automatic fire detection					
3408.6.9 Fire alarm system					
3408.6.10 Smoke control		* * * *			3,
3408.6.11 Means of egress		* * * *			
3408.6.12 Dead ends		* * * *			
3408.6.13 Max. exit access travel	distance	* * * *			
3408.6.14 Elevator control					
3408.6.15 Means of egress emer	gency lighting	* * * *			
3408.6.16 Mixed use groups			* * * *		
3408.6.17 Sprinklers			÷ 2 =		
3408.6.18 Specific occupancy are	ea protection				
Building score — total value					
* * * * No applicable value to be in	sorted				
ino applicable value to be in	serteu.				

BUILDING SAFETY EVALUATION SCORE (Table 3408.9)

Formula	Table 3408.7	Table 3408.8		Score	Pass	Fail
FS-MFS≥0	(FS)	_	_ (MFS)	=		
$ME-MME \ge 0$	(ME)	-	_ (MME)			
$GS\text{-}MGS \geq 0$	(GS)	-	_ (MGS)	=		

FS = Fire Safety MFS = Mandatory Fire Safety
ME = Means of Egress MME = Mandatory Means of Egress
GS = General Safety MGS = Mandatory General Safety