

ARCHITECT: JAMES A. MORAN, III, PINKHAM & GREER CONSULTING ENGINEERS  
 DATE: 12.26.2006  
 Job Name: IMMUCELL CORP. RENOVATIONS  
 Address of Construction: 516 EVERGREEN DR., PORTLAND, ME

**2003 International Building Code**

Construction project was designed to the building code criteria listed below:

Building Code & Year IBC 2003 Use Group Classification (a) BUSINESS (EXISTING)  
 Type of Construction UNPROTECTED STEEL & LIGHT WOOD FRAMING  
 Will the Structure have a Fire suppression system in Accordance with Section 903.3.1 of the 2003 IRC YES  
 Is the Structure mixed use? NO If yes, separated or non separated or non separated (section 302.3) -  
 Supervisory alarm System? YES Geotechnical/Soils report required? (See Section 1802.2) NO

**STRUCTURAL DESIGN CALCULATIONS**

NO Submitted for all structural members (106.1 - 106.11)  
**DESIGN LOADS ON CONSTRUCTION DOCUMENTS**  
(603)

Uniformly distributed floor live loads (7603.1.1, 1807)

Floor Area Use	Loads Shown
<u>STORAGE MEZZ.</u>	<u>80 PSF (POSTED)</u>
<u>OFFICE MEZZ.</u>	<u>50 PSF</u>
<u>OFFICE CORRIDOR</u>	<u>100 PSF</u>

**Wind loads (1603.1.4, 1609)**

Design option utilized (1609.1.1, 1609.6)  
 Basic wind speed (1809.3)  
 Building category and wind importance Factor,  $w$   
(Table 1604.5, 1609.3)  
 Wind exposure category (1609.4)  
 Internal pressure coefficient (ASCE 7)  
 Component and cladding pressures (1609.1.1, 1609.6.2.2)  
 Main force wind pressures (7603.1.1, 1609.6.2.1)

**Earth design data (1603.1.5, 1614-1623)**

Design option utilized (1614.1)  
 Seismic use group ("Category") (Table 1604.5, 1616.2)  
 Spectral response coefficients,  $S_a$  &  $S_d$  (1615.1)  
 Site class (1615.1.5)

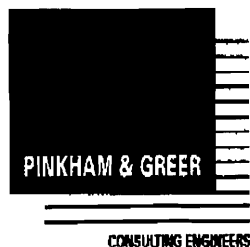
Live load reduction  
 Roof live loads (1603.1.2, 1607.11)  
 Roof snow loads (1603.7.3, 1608)  
 Ground snow load,  $P_g$  (1608.2)  
 If  $P_g > 10$  psf, flat-roof snow load  $P_f$   
 If  $P_g > 10$  psf, snow exposure factor,  $C_e$   
 If  $P_g > 10$  psf, snow load importance factor,  $I_s$   
 Roof thermal factor,  $C_t$  (1608.4)  
 Sloped roof snowload,  $P_s$  (1608.4)  
 Seismic design category (1616.3)  
 Basic seismic force resisting system  
(Table 1617.6.2)  
 Response modification coefficient,  $R$ , and  
 deflection amplification factor,  $C_d$  (Table 1617.6.2)  
 Analysis procedure (1616.6, 1617.5)  
 Design base shear (1617.4, 1617.5.1)

**Flood loads (1803.1.6, 1612)**

Flood Hazard area (1612.3)  
 Elevation of structure

**Other loads**

Concentrated loads (1607.4)  
 Partition loads (1607.5)  
 Misc. loads (Table 1607.8, 1607.6.1, 1607.7,  
 1607.12, 1607.13, 1610, 1611, 2404)



380 US Route One  
 Falmouth, Maine 04105  
 Tel. 207.781.5242  
 Fax. 207.781.4245

### STATEMENT OF SPECIAL INSPECTIONS

PROJECT: Immucell Corp. Renovations  
 LOCATION: Portland, Maine  
 PERMIT APPLICANT: Immucell Corp.  
 APPLICANT'S ADDRESS: 56 Evergreen Dr., Portland, ME 04103

STRUCTURAL ENGINEER OF RECORD: James A. Moran, III, P.E., Pinkham & Greer Engineers  
NAME FIRM

ARCHITECT OF RECORD: Brian E. Duffy, R.A., Brian E. Duffy Associates  
NAME FIRM

This Statement of Special Inspections is submitted in accordance with Section 1704.0 of the 2003 International Building Code. It includes a listing of special inspections applicable to this project as well as the name of the Special Inspector, and the names of other agencies intended to be retained for conducting these inspections.

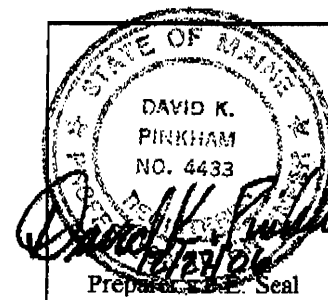
The Special Inspector shall keep records of all inspections listed herein, and shall furnish inspection reports to the Code Official and to the Registered Design Professional of Record. All discrepancies shall be brought to the immediate attention of the Contractor for correction. If the discrepancies are not corrected the discrepancies shall be brought to the attention of the Code Official and to the Registered Design Professional of Record. Interim reports shall be submitted to the Code Official and to the Registered Design Professional of Record monthly, unless more frequent submissions are requested by the Code Official.

Job site safety is solely the responsibility of the Contractor. Materials and activities to be inspected are not to include the Contractor's equipment and methods used to erect or install the materials listed.

Prepared By:

David K. Pinkham, P.E.

David K. Pinkham 12/27/06  
NAME DATE  
SIGNATURE



12/27/06

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### LIST OF AGENTS

PROJECT: Immucell Corp. Renovations, 56 Evergreen Dr. Portland, ME

STRUCTURAL ENGINEER OF RECORD: James A. Moran III, P.E., Pinkham & Greer Engineers  
NAME FIRM  
380 U.S. Route One, Falmouth, Maine 04105  
ADDRESS

ARCHITECT OF RECORD: Brian E. Duffy, Brian E. Duffy Associates  
NAME FIRM  
10 Beach St., Portland, Maine 04101  
ADDRESS

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

	<u>Name</u>	<u>Firm</u>
1. Special Inspector	David K. Pinkham, P.E.	Pinkham & Greer
2. Special Inspector	James A. Moran III, P.E.	Pinkham & Greer (207) 781-5242
3. Testing Laboratory		Q/A Laboratories Inc. 80 Pleasant Ave. So. Portland, ME 04106 (207) 799-8911

12/27/06

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**SPECIAL INSPECTION SERVICES**

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APPLICABLE TO THIS PROJECT					
Y/N	EXTENT (All, Sample, Other, None)	COMMENTS	AGENT #	DATE COMPLETED	REV. #
N					
	ALL		1, 2, or 3		
	VISUAL, ALL		3		
	SUAL, ALL		1, 2, or 3		
			1, 2, or 3		
1704.3	Special Inspector _____		Date _____		