Form # P 04

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK

CITY OF PORTLAND

B[illegible]CTION

PERMIT

Please Read Application And Notes, If Any, Attached

Permit Number: 041122

PERMIT ISSUED
[illegible] 2004
CITY OF PORTLAND

This is to certify that Five Liver Company/WRIGH[illegible]RYAN CONSTRUCTION

has permission to 2 story structual steel and bri[illegible]vaneer b[illegible]ding st[illegible]

AT 135 Marginal Way C[illegible] 025 B005001

provided that the person or persons, firm or c[illegible]ation accepting this permit shall comply with all of the provisions of the Statutes of M[illegible]ine and of the [illegible]ances of the City of Portland regulating the construction, maintenance and u[illegible] of buildings and st[illegible]ctures, and of the application on file in this department.

Apply to Public Works for street line and grade if nature of work requires such information.

N[illegible]fication [illegible] inspec[illegible]n must g[illegible]n and w[illegible]n permis[illegible]n procu b[illegible]re this [illegible]ding or [illegible]t thereo[illegible] la[illegible]ed or c[illegible]losed-in. H[illegible]R NOTICE IS REQUIRED.

A certificate of occupancy must be procured by owner before this building or part thereof is occupied.

OTHER REQUIRED APPROVALS

Fire Dept. [illegible]

Health Dept. _____

Appeal Board _____

Other _____
Department Name

Director - Building & Inspection Services

PENALTY FOR REMOVING THIS CARD

Becker Structural Engineers, Inc.

75 York Street
Portland. ME 04101
207.879.1838 phone
207.879.1822 fax

FAX COVER

TO: Michael J. Nugent

FROM: Paul Becker

DATE: 9-3-04

FAX NO: 874-8716

CC: Guy Labrecque – CWS Architects

SUBJECT: 135 Marginal Way

PAGES: 4
cover included

Mike: Please see the attached correspondence. A hard copy will follow by mail.

Thanks,

Paul

BECKER
structural engineers. inc.

September 3.2004

Michael J. Nugent
Inspection Services Manager
City Hall Room 315
389 Congress Street
Portland, ME 04101

STRUCTURAL DESIGN CRITERIA
135 MARGINAL WAY
PORTLAND, MAINE

Dear Mike,

Per your request. the following information should **clarify** the structural design criteria for **the** above referenced project:

Foundation Desian:

The building **is to** be founded on steel "H" piles, with a steel section of **HP8x36,** grade 50 material. The net allowable capacity is to be 33 **tons** (66 tons), representing a gross capacity **of** 40 tons (80 kips) with a down **drag** of 7 tons (14 kips). This corresponds to an ultimate driven capacity of 255 kips. This information is presented in an Addendum Pile Foundation Evaluation Report, prepared by R. W. **Gillespie** Associates, dated June 23,2004. Please **find a copy** of the addendum **report** attached to this **correspondence.**

Wind Desian Pressure (P):

Our calculations **indicate** that **the** net wind design pressure (pressure + suction) at **the** highest level **for** the Main Wind Force Resisting System (MWFRS), per the requirements of Section 1609.7 of the 1999 **BOCA** National Building Code. is 31.9 pounds per square foot (psf).

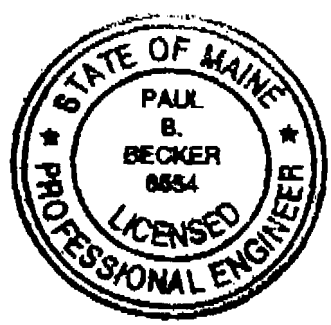
Basic Structural System and Seismic Resisting System:

The basic structural system for the project will **be** a structural steel **building** frame system consisting of composite steel frame floors with concrete slabs **and** a non-composite **steel** joist roof **with** wide flange **steel** girders. Interior steel wide flange columns and exterior steel tube columns are to be utilized as vertical elements **for** this project. The seismic resisting system for this project will consist of a combination of **concentrically** braced frames and eccentrically braced frames.

We trust that **this** information meets **your needs** at this time. Please **feel** free to contact me with **any** questions or comments you might have.

Sincerely,
BECKER STRUCTURAL ENGINEERS, Inc.

Paul B. Becker, P. E.
President



Attachment (**2** Pages)

CC: Guy Labrecque – CWS Architects

COPY

R. W. Gillespie & Associates, Inc.
Geotechnical Engineering • Geohydrology • Materials Testing Services

W01213

23 June2004

Mr. Bruce Kistler
Fore River Company
P.O. Box 7525
Portland, Maine 04112-7525

Subject: **Addendum** to **Pile Foundation** Evaluation Repoit
Proposed 1.35Marginal **Way** Office Building
Portland, Maine
RWG&A Project No. 816-04

Dear Mr. Kistler:

As requested by **Mr.** Paul B. **Becker. P.E.** of **Becker Structural** Engineers, Inc., **R. W** Gillespie & **Associates,** Inc., (RWG&A) has **evaluated pile** foundation recommendations **made** in **our** report **dated 24 May** 2004 relative to a **proposed** structural **load** of *66* **kips** per pile. The **structural load** carrying capacity in the report is ***60*** **kips.**

Based on our evaluation of the proposed pile load, **HPS** by *36* **steel H-piles (50 kips per square** inch yield **strength** steel) remain **appropriate to support the proposed two-story** office **building. It** is recommended the H-piles **be driven to a minimum** ultimate **capacity of** 255 **kips (increased** from **240 kips)** which provides **a** minimum factor **of** safety **three** on geotechnical capacity.

Preliminary driveability analyses **indicate the piles can be driven to the** recommended **ultimate capacity** using a hammer with **a rated energy** on the **order of 17,000 to** 21,000 foot **pound. A wave** equation analysis will be needed to **verify that the contractor's pile** hammer can drive ***the*** **piles to** the **required** minimum ultimate capacity without over-stressing or **damaging** the **piles.** Other recommendations provided **in** the report remain **appropriate for the proposed project.**

R. W. Gillespie & Associates, Inc.

We trust this addendum meets your current needs, and RWG&A looks forward to providing continuing services as the project progresses through design and construction. If you have any questions or if we may be of further service, please contact us.

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

Erik J. Wiberg, P.E.
Senior Geotechnical Engineer

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

STATE OF MAINE
CHARLES R. NICKERSON #5104
REGISTERED PROFESSIONAL ENGINEER

EJW/CRN:ci
In quadruplicate

copy: Paul E, Becker, P.E. - Becker Structural Engineers

RWG&A Project No. 816-04

23 June 2004

City of Portland, Maine - Building or Use Permit Application

389 Congress Street, 04101 Tel: (207) 874-8703, **Fax:** (207) 874-8716

Permit No:	Issue Date:	CBL:
04-1122		025 B005001

Location of Construction:	Owner Name:	Owner Address:	Phone:
135 Marginal Way	Five Liver Company	5 Milk St	
Business Name:	**Contractor Name:**	**Contractor Address:**	**Phone**
	WRIGHT RYAN CONSTRUCT10	10 DANFORTH STREET Portland	2077733625
Lessee/Buyer's Name	**Phone:**	**Permit Type:**	**Zone:**
		Building Miscellaneous	B5
Past Use:	**Proposed Use:**		
	multi tenant office building	$16,746.00 | $1,850,000.00 | 1	

FIRE DEPT: ☑ Approved ☐ Denied

Signature:

INSPECTION: Use Group: B Type: 2C

9/2/04

Signature:

PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)

Action: ☐ Approved ☐ Approved w/Conditions ☐ Denied

Signature: Date:

Permit Taken By:	Date Applied For:
dmartin	08/05/2004

1. This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.
2. Building permits do not include plumbing, septic or electrical work.
3. Building permits are void if work is not started within six (6) months of the date of issuance. False information may invalidate a building permit and stop all work..

Zoning Approval

Special Zone or Reviews	Zoning Appeal	Historic Preservation
☐ Shoreland N/A	☐ Variance	☑ Not in District or Landmarl
☐ Wetland	☐ Miscellaneous	☐ Does Not Require Review
☐ Flood Zone panel 13 zone C	☐ Conditional Use	☐ Requires Review
☐ Subdivision	☐ Interpretation	☐ Approved
☒ Site Plan #2003-0199	☐ Approved	☐ Approved w/Conditions
Maj ☒ Minor ☐ MM ☐ ok w/ conditions	☐ Denied	☐ Denied
Date: 8/10/04	Date:	Date:

CERTIFICATION

I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in the application is issued, I certify that the code official's authorized representative shall have the authority to enter all areas covered by such permit at any reasonable hour to enforce the provision of the code(s) applicable to such permit.

SIGNATURE **OF** APPLICANT | ADDRESS | DATE | PHONE

RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE | **DATE** | PHONE

City of Portland, Maine - Building or Use Permit

389 Congress Street, 04101 Tel: (207) 874-8703, **Fax:** (207) 874-8716

Permit No:	Date Applied For:	CBL:
04-1122	08/05/2004	025 B005001

Location of Construction:	Owner Name:	Owner Address:	Phone:
135 Marginal Way	Five Liver Company	5 Milk St	
Business Name:	**Contractor Name:**	**Contractor Address:**	**Phone**
	WRIGHT RYAN CONSTRUCT10	10 DANFORTH STREET Portland	(207) 773-3625
Lessee/Buyer's Name	**Phone:**	**Permit Type:**	
		Building Miscellaneous	

Proposed Use:	Proposed Project Description:

☑

Dept: Engineering **Status:** Approved with Conditions **Reviewer:** Tony **Approval Date:** 10/02/2003

Note: PUBLIC WORKS ENGINEERING REVIEW..10/02/03 **Ok to Issue:** ☐

I have reviewed the ammendment dated 9/24/03 and offer the following comments:

1.It is not clear from this application whether the applicant of the City will assume responsibility for the requirement of installing granite curbing and sidewalk. Neither element has been included on the plans.
2. The proposed utility service connections in Marginal Way must reflect the proposed excavation limits in accordance with the City's Street Opening Ordinace. Further, the curbing and sidewalk disturbed during the installation of utility services must be specified on the plans.
3. Both right of way and site development construction details need to be included as part of the plan set.

Dept: Fire **Status:** Approved **Reviewer:** Lt. MacDougal **Approval Date:** 09/30/2003

Note: **Ok to Issue:** ☑

Dept: DRC **Status:** Approved **Reviewer:** Rick Knowland **Approval Date:** 03/08/2004

Note: **Ok to Issue:** ☑

Dept: Planning **Status:** Approved with Conditions **Reviewer:** Rick Knowland **Approval Date:** 03/08/2004

Note: **Ok to Issue:** ☑

1) 1.Per conditions of letter of approval dated March 4,2004 from Portland Planning Authority.

Location of Construction:	Owner Name:	Owner Address:	Phone:
135 Marginal Way	Five Liver Company	5 Milk St	
Business Name:	**Contractor Name:**	**Contractor Address:**	**Phone**
	WRIGHT RYAN CONSTRUCT10	10 DANFORTH STREET Portland	(207) 773-3625
Lessee/Buyer's Name	**Phone:**	**Permit Type:**	
		Building Miscellaneous	

05 B 005

5

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

FROM: Guy T. Labrecque, Jr / CWS Architects

RE: Certificate of Design

DATE: 6/21/04

These plans and / or specifications covering construction work on:

135 Marginal Way Multi-Tenant Office Building

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.

LICENSED ARCHITECT
GUY
(SEAL)
LABRECQUE, JR.
No. 2568
STATE OF MAINE

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:

Title: Principal

Firm: CWS Architects

Address: 434 Cumberland Ave.
Portland, ME 04101

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

ACCESSIBILITY CERTIFICATE

Designer: Guy T. Labrecque, Jr. / CWS Architects

Address of Project: 135 Marginal Way

Nature of Project: Multi-Tenant Office Building

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.

Signature:

Title: Principal

Finn: CWS Architects

Address: 434 Cumberland Ave.

Portland, ME 04101

Phone: 207-774-4441

(SEAL)

LICENSED ARCHITECT
GUY
JR.
STATE OF MAINE

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

FROM DESIGNER: Guy Labrecque, Jr.

CWS Architects

DATE: 6/21/04

Job Name: Multi-Tenant Office Building

Address of Construction: 135 Marginal Way

THE BOCA NATIONAL BUILDING CODE / 1999 (FOURTEENTH EDITION)

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

Building Code and Year BOC.4 1999 Use Group Classification(s) Use Group B

Type of Construction 2c

Structural Systems

Roof Snow Load

60 Ground Snow Load (Pg)

46 If Pg >10 psf, Flat Roof snow load, Pf

1.0 If Pg >10 psf, snow exposure factor, Ce

1.1 If Pg >10 psf, roof thermal factor

1.0 If Pg >10 psf, snow load importance factor, I

N/A Sloped Roof Snowload Ps

concentrically braced frames r=5 col=4.5

eccentrically braced frames r=5 col=4

x The documents must account for Drift snow load, unbalanced snow load and Sliding snow loads as required.

Earthquake Loads

0.11 Peak velocity-related acceleration, Av

0.11 Peak acceleration, Aa

I Seismic hazard exposure group

C Seismic performance category

3 Soil profile type

Basic structural system /seismic-resisting system

Response modification factor, R, and deflection amplification factor, Cd,

Wind Loads

85 Basic Wind Speed

± 0.25 Internal Pressure Coefficient

B Wind Exposure Category 19.5 Wind Design Pressure 1.10 Wind Importance Factor

CWS Architects

434 Cumberland Avenue
Portland ME 04101-2325

Guy T. Labrecque - Architect
Phone: 207.774.4441
Fax: 207.774.4016
E-mail: GLabrecque@CWSarch.com

March 31,2004

CODE COMPLIANCE REPORT

Office Building at 135 Marginal Way
Portland, Maine

BOCA AND LIFE SAFETY CODES REVIEW

1.0 Codes Review

Description of Building's Function and Program:

The project consists of the construction of a new two-story multi-tenant office building at 135 Marginal Way. The building will be constructed on a pile and grade bean foundation system. The exterior of the building will be a masonry veneer. The steel framed main structure will consist of steel beams, columns and bar joists. The building will be contain an automatic fire suppression system.

1.0.A Occupant Classification(s):

BOCA 1999
Use Group: Business Use: B

NFPA 101:
Chapter **39,** "New Business Occupancies"

l.O.B Building Height and Area Limitations:

Building Height:

BOCA 1999– Chapter 5, Table 503
Type 2C Construction

Proposed: The building will be a 2-story building of about 34'-0" in height at the highest parapet. A mechanical Penthouse will be explored as the design process moves forward. A Penthouse would increase the height approximately 12'-0" if pursued. This would increase the building's height to 46'-0".

Allowable:
Table 503: Business Use: (3) Stories, 40'-0"

Sprinkler Modification: Increase (1) Story and 20'-0"
Total Allowable height: (4) Stories, 60'-0" (The building will conform.)

Building Area:

BOCA – Chapter 5, Table 503
Type 2C Construction

Proposed: The building's area at the exterior perimeter of the first floor will be 10,583 sf.. The building's area at the exterior perimeter of the second floor will be 10,487 sf (plus the Penthouse area).

Allowable:
Table **503:** Business Use: 14,400 sf.
Sprinkler Modification: 200% increase: +28,800 s.f.
Street Frontage Modification: 200% increase: +28,800 s.f.
Total Allowable area per floor: 72,000 s.f. (The building will conform.)

l.O.C Type of Construction:

NFPA 220: Type II, 000
BOCA 1999: Type 2C

The building consists of the following assemblies;

Exterior Walls: Non load-bearing masonry veneer over metal stud framing.
5/8" Type "X" gypsum wall board throughout.

Structural System:
Rigid Steel Frame

Interior and Exterior Non-Load Bearing Walls:
Metal stud Framing
Batt and rigid insulation
5/8" Type "X" gypsum wallboard throughout.

l.O.D Required Fire Resistance Ratings of applicable Structure Elements:

BOCA - Table 602

Element

Fire Walls (707.1)	2 hrs
Fire Separation Assemblies	
Exits (1014.11)	1 hr
Shafts (710.3)	1 hr
Fire Partitions (1011.4 w/ sprinkler)	0 hr
Exist Access Corridors	0 hr
Tenant Spaces	0 hr

Floor Construction	0 hr
Roof Construction	0 hr

NFPA 101

Exit Access Corridors: 38.3.6.1 w/o a sprinkler system	1 hr
Exit Access Corridors: 38.3.6.1 exc. 3 w/a sprinkler system	0 hr
Fire Enclosure of Exits: 7.1.3.2(a) Serving 3-stories or less	1 hr
Vertical Openings shall be fully enclosed floor to floor or floor to roof: 8.2.5.4	1 hr

l.O.E Means of Evress:

BOCA 1999 – Chapter 10: Table 1008.1.2
NFPA 101 – Chapter 7: Table 7.3.1.2

Occupant Load BOCA: Business Areas: 100 gross s.f. / per occupant
Occupant Load NFPA: Business Occupancy: 100 s.f. / per occupant

Building First Floor Occupant Load @ 10,583 s.f. = 106 people
Building Second Floor Occupant Load @ 10,487 s.f. = 105 people

Minimum Number of Exits:

BOCA 1999 – Chapter 10, Section 1010, Table 1010.3

Due to the building being 2- stories, the occupant load being greater than 50 and the travel distance potentially being greater than 100 feet, two means of egress will be required. 50% (1) Means of Egress shall be "Accessible".

NFPA 101 – Chapter 40

Not less than two means of Egress shall be provided.

Capacity of Evress Components:

Element	**Minimum Allowable**
BOCA Table 1009.2: w/ sprinkler	
Corridors and Doors = .15 inches per person	
Stairways = .2 inches per person	

Calculation: 106 x .15 = 15.9"
106 x .2 – 21.2"

1011.3 – Minimum Corridor Width = ***44"***
1017.3 – Minimum Door Width = 32"

NFPA Table 7.3.3.1 = .2 inches per person
Corridors and Doors = .2 inches per person
Stairways = .3 inches per person

Calculation: 106 x .2 = 21.2"
106 x .3 = 31.8"

38.2.3.2 – Minimum Corridor Width = 44"
7.2.1.2.4 – Minimum Door Width = 32"

Egress Arrangement:

Business Use: BOCA 1999:

Dead-end corridor (1011.2, exc. 3)	50' with a sprinkler system
Exit Access Travel Distance (Table 1006.5)	250' with a sprinkler system
Common Path of Travel (1011.2.1 exc. 1)	100' with a sprinkler system

Business Occupancy: NFPA 101

Dead-end corridor (38.2.5.2.1)	50 ft with sprinkler system
Common Path of Travel (38.2.5.3.1)	100 ft with sprinkler system
Travel Distance to an Exit (38.2.6.1)	300 ft with sprinkler system

l.O.F Emergency Lighting: NFPA 38.2.9

Emergency Lighting will be required.

l.O.G Interior Finish System:

BOCA 1999 - Chapter 8
NFPA 101 – 38.3.3.2.1, 38.3.3.2.2, Chapter 10

Wall and Ceiling Finishes:	**NFPA**	**BOCA**
Vertical Exits	Class A or B	Class A or B
Exit Access Corridors	Class A or B	Class **A,** B or C
All other spaces	Class A, B or C	Class A, B or C

Floor Finishes:		
Vertical Exits / Exit Corridors	Class I or Class II	Class I or **II**

l.O.H Detection, Alarm, and Communications:

BOCA 1999 – Chapter 9
A Manual Fire Alarm system is not required per 918.4.2
NFPA 101 – Chapters 40 and 9
A manual fire alarm system is required by NFPA 101: 38.3.4.1 and by BOCA (918).

1.0.I Extinguishing Requirements:

BOCA 1999 - Chapter 9
NFPA 101 – Chapter 40

- An Automatic Fire Suppression System is not required by the above codes. One will be provided.
- Portable fire extinguishers are required by NFPA 101:38.3.5.
- Fire extinguishers shall conform to NFPA 10 and shall be placed such that the travel distance to any extinguisher location shall be less than 75'.

2 GENERAL BUILDING COMPONENTS

2.0.A Stair Assemblies

BOCA 1999 – Chapter 10

Maximum Riser Height (1014.6)	7"
Minimum Rise Height (1014.6)	4"
Minimum Tread Depth (1014.6)	11"
Minimum Stair Head Room (1014.4)	80" (6'-8")
Maximum Vertical Rise to Landing (1014.5)	12'-0"
Hand Rail Height (1022.2.2)	not less than 34" / not greater than 38"
Guardrail Height (1021.2)	at least 42"

Baluster Spacing shall resist the passage of a 4" sphere in a Business Use Group per 1021.3.

NFPA 101 – Chapter 7

Maximum Riser Height (7.2.2.2.1(a))	7"
Minimum Rise Height (7.2.2.2.1(a))	4"
Minimum Tread Depth (7.2.2.2.1(a))	11"
Minimum Stair Head Room (7.2.2.2.1(a))	80" (6'-8")
Maximum Vertical Rise to Landing (7.2.2.2.1(a))	12'-0"
Hand Rail Height (7.2.2.4.5)	not less than 34" / not greater than 38"
Guardrail Height (7.2.2.4.6)	not less than 42"

Baluster Spacing shall resist the passage of a 4" sphere per 7.2.2.4.6.

3.0 EXPLORATION OF OPEN COMMUNICATING STAIR

BOCA 1999 – Section 1014

Section 1014.11: In a 2-story, business use building "exit stairways" shall be enclosed by a l-hour fire separation assembly. Openings in "exit" enclosures shall be limited to those required for "exit access". The only applicable Exception is No. 3. This exception would allow an open stair NOT considered part of a "means of egress", as long as it conforms to Section 713.3.

Section 713.3: A floor opening connecting two or more stories shall be protected by a shaft enclosure that complies with Section 710.0. The exception to this rule that would apply to a communicating stair is No. 10. This exception has five different rules to conform to.

NFPA 101 – 7.2.2.5.1.2: Inside stairs other than those serving as an exit component shall be protected in accordance with Section 8.6.
NFPA Section 8.6.6:

…End of Code Compliance Report

25 B CCS

BECKER
structural engineers, inc.

STATEMENT OF SPECIAL INSPECTIONS
EXIHBIT C

PROJECT: Multi Tenant Office Building
135 Marginal Way, Portland, Maine

LOCATION: Portland, Maine

PERMIT APPLICANT: Wright Ryan Construction

APPLICANT'S ADDRESS: 10 Danforth Street, Portland, Maine 04101

STRUCTURAL ENGINEER OF RECORD: Paul B. Becker, P.E. – Becker Structural Engineers, Inc.

ARCHITECT OF RECORD: Guy Labrecque – CWS Architects

This Statement of Special Inspections is submitted in accordance with Section 1705.0 of the 1999 BOCA National 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 L_0 the Registered Design Professional of Record. Interim reports shall be submitted to the Code Official and to the Registered De sign Professional of Record monthly, unless more frequent submissions are requested by the Code Official.

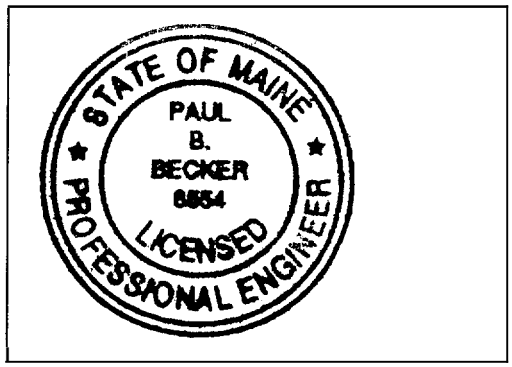
Job site safety is solely the responsibility of the Contractor. Materials and activities to be inspected are not to include the Contractor's equipment and methods used to erect or install the materials listed.

Prepared By:

Paul B. Becker, P.E.

NAME

SIGNATURE 7/19/04 DATE



Preparer's P.E. Seal

Applicant's Authorization:

SIGNATURE DATE

Building Code Official:

SIGNATURE DATE

B E C K E R
structural engineers, inc

LIST OF AGENTS

PROJECT: Multi Tenant Office Buildin
135 Mareinal Wav. Portland! Maine

STRUCTURAL ENGINEER OF RECORD: Paul B. Becker, P.E. - Becker Structural Engineers, Inc.
Name Firm
75 York Street – Portland, ME 04101
Address

ARCHITECT OF RECORD: Guy Labrecaue – CWS Architects
Name Firm
434 Cumberland Avenue, Portland, ME 04101
Address

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

		Name	Firm	Abbreviation
1.	Special Inspector	Paul B. Becker, P.E.	Becker Structural Engineers, Inc.	BSE
2.	Special Inspector	Thaddeus P. Gabryszewski, P.E.	"	BSE
3.	Special Inspector	Ethan A. Rhile, P.E.	"	BSE
4.	Testing Laboratory	Robert Gillespie	R.W. Gillespie & Assocaites	TL

B E C K E R
structural engineers, inc.

FINAL REPORT OF SPECIAL INSPECTIONS

PROJECT: Multi Tenant Office Building
135 Marginal Way, Portland, Maine

LOCATION: Portland, Maine

PERMIT APPLICANT: Wright Ryan Construction

APPLICANT'S ADDRESS: 10 Danforth Street, Portland, Maine 04101

STRUCTURAL ENGINEER OF RECORD: Paul B. Becker, P.E. - Becker Structural Engineers, Inc.
Name Firm

ARCHITECT OF RECORD: Guy Labrecque – CWS Architects
Name Firm

GENERAL CONTRACTOR: Bill Rowles – Wright Ryan Construction

To the best of my information, knowledge, and belief, the Special Inspections required for this project, and described in the Statement of Special Inspections submitted for the project, have been completed.

The following discrepancies that were outstanding since the last interim report, No. ___ dated _____, have been corrected:

(Use additional sheets, if necessary)

Interim reports submitted to this final report and numbered ___ to ___, form a basis for, and are to be considered an integral part of this final report.

Submitted By:
SPECIAL INSPECTOR

Paul B. Becker, P.E.
NAME

SIGNATURE DATE

Special Inspector's P.E. Seal

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

SUMMARY OF SERVICES (Exhibit A)-SCHEDULE OF SPECIAL INSPECTION SERVICES

Project: Multi Tenant Office Building @ 135 Marginal Way, Portland, ME

Material/Activity	Item	Service	Y/N	Extent	Comments	Agent	Date	Rev
1705.2 Inspection of Fabricators	**1.00**							
		Fabrication Procedures	Y					
		Procedure Implementation	Y			BSE		
1705.3 Steel Construction	**2.00**							
Steel Fabrication		In-Plant-Review Part A-Fabrication/QA						
		1. AISC	Y	Provide Certification	Conventional Steel Building Structures	BSE		
		2. AWS Quality Assurance	Y	Provide Certification		BSE		
		Part B – Procedures Implementation Review Conformance to Part A						
		1. Bolts, Nuts, Washers	Y	Sample	AISC ASD A3.4	SE		
		2. Structural Steel	Y	Sample	AISC A6 or A568	SE		
		3. Weld Filler Material	Y	Sample	AISC ASD A3.6	SE		
		Review Connections						
		1. Shop Bolted	N			—		
		2. Shop Welded	Y	All		—		
		3. Connection Design Calcs	Y	All Bracing	In Field-Visual Performance Design	L		
		4. Shop Welder Certs	Y	All		SE	PBB	7/19/04
Steel Erection		**Review Material Certs of Compliance**				L		
		1. Bolts, Nuts, Washers	Y	All		—		
		2. Structural Steel	Y	All		SE		
		3. Weld Filler Material	Y	All		SE		
		Review Primary Steel Connections				SE		
		Moment Connections	Y	All		—		
		Shear Connections				—		
		1. Field Bolted	Y	All		—		
		2. Field Welded				—		
						TL		

SUMMARY OF SERVICES (Exhibit A)-SCHEDULE OF SPECIAL INSPECTION SERVICES

Project: Multi Tenant Office Building @ 135 Marginal Way, Portland, ME

Material/Activity	Item	Service	Y/N	Extent	Comments	Agent	Date	Rev
1705.3 Steel Construction Cont'd	**2.00**							
Steel Erection Cont'd								
		Review Welded Column Splices	N					
		Review Base Metal Testing for "t">1 ½"	N					
		Review Secondary Steel Connections						
		1. Girts	Y	Sample		TL		
		2. Loose Lintels	Y	Sample		BSE		
		3. Steel Deck	Y	All		TL		
		4. Precast Wall Panel Connections	Y	All		BSE/TL		
		5. 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					
		1. Review Connections	N					
		2. Review Welder Certifications	Y	All		BSE		
		Part C – Material Certifications						
		1. Structural Steel	Y	All		BSE		
		2. Weld Material	Y	All		BSE		
Joist Erection		Review Joist Bearing Connections	Y	All		BSE		
		Review Joist Bearing Length	Y	All		BSE		
		Review Joist Bridging	Y	All		BSE		

SUMMARY OF SERVICES (Exhibit A)-SCHEDULE OF SPECIAL INSPECTION SERVICES

Project: Multi Tenant Office Building @ 135 Marginal Way, Portland, ME

Material/Activity	Item	Service	Y/N	Extent	Comments	Agent	Date	Rev
1705.4 Concrete Construction	**4.00**							
Concrete Materials		1. Cement	Y	All	ASTM C150	BSE		
		2. Normal Weight Aggregates	Y	All	ASTM C33	BSE		
		3. Air Entraining Admixture	Y	All	ASTM C260	BSE		
		4. Normal Range Water Reducer	Y	All	ASTM C494	BSE		
		5. Hi-Range Water Reducer	Y	All	ASTM C494	BSE		
		6. Accelerator	Y	All	ASTM C494 TYPE A	BSE		
Concrete Accessories		1. Vapor Retarder	Y	All		BSE		
		2. Curing Products	Y	All		BSE		
		3. Preformed Expansion Joints	Y	All		BSE		
Mix Design		Review Mix Designs			ACI Chapter 4			
		1. FDN Walls & Footings	Y	All		BSE		
		2. Slabs on Grade	Y	All		BSE		
		3. Elevated Slabs	Y	All		BSE		
		4. Exterior Slabs	N					
Reinforcement Material		Reinforcement Material Certifications	Y	All		BSE		
Placing Reinforcement		Review condition & placement of reinforcing						
		1. Footings & Foundation Walls	Y	Sample		BSE		
		2. Slabs on Grade	Y	Sample		BSE		
		3. Elevated Slabs	Y	Sample		BSE		
		4. Topping Slabs	Y	Sample		BSE		
		5. Review Embedded Items: Bolts, Plates, etc.	Y	Sample		BSE		
Formwork		Review installation of Forms	Y	Sample		BSE		
		Review Form Removal & Reshoring	Y	Sample		BSE		

SUMMARY OF SERVICES (Exhibit A)-SCHEDULE OF SPECIAL INSPECTION SERVICES

Project: Multi Tenant Office Building @ 135 Marginal Way, Portland, ME

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