

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK CITY OF PORTLAND

Please Read
Application And
Notes, If Any,
Attached

SECTION

PERMIT

PERMIT ISSUED
Permit Number: 050861
JUL 21 2005
CITY OF PORTLAND

This is to certify that Cumberland County Ymca / WEIGHT RYAN CONSTRUCTION
has permission to phase 2 of permit # 050534 renovations and additions
AT 217 High St C 036 G023001

provided that the person or persons, firm or corporation accepting this permit shall comply with all of the provisions of the Statutes of Maine and of the Ordinances of the City of Portland regulating the construction, maintenance and use of buildings and structures, 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.

Notification of inspection must be given and work on permit in progress before this building or part thereof is closed or closed-in. 24 HOUR 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. Capt. Greg Cox 7-5-05
Health Dept. _____
Appeal Board _____
Other _____

Department Name

[Signature]
Director - Building & Inspection Services

PENALTY FOR REMOVING THIS CARD



CITY OF PORTLAND, MAINE
Department of Building Inspection

Certificate of Occupancy

LOCATION 217 High St

CBL 036 G023001

Issued to CCYSRO, LP

Date of Issue 01/26/2006

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. 05-0861, 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

Entire structure

APPROVED OCCUPANCY

YMCA
32 Residential Units
Use Group A3
Type 2B
IBC 2003

Limiting Conditions:

Tempoary Use Permit . Permit expires on July 1, 2006. Site work must be completed to issue permanant Certificate.

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.

4-28-06
Creg Cass JFD



CITY OF PORTLAND, MAINE
Department of Building Inspection

Certificate of Occupancy

LOCATION 217 High St

CBL 036 G023001

Issued to CCYSRO, LP/WRIGHT RYAN CONSTRUCTION

Date of Issue 01/26/2006

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. 05-0861, 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 Residential Units

APPROVED OCCUPANCY

YMCA
32 SRO Residential Units
Use Group A3
Type 2B
IBC 2003

Limiting Conditions:

Tempoary Use Permit . Permit expires on July 1, 2006. Site work must be completed to issue permanant Certificate.

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.

4-28-06

Permit No: 05-086 Issued: **PERMIT ISSUED** 050 G023001

JUL 21 2005
CITY OF PORTLAND

Owner Name: Cumberland County Ymca	Owner Address: 70 Forest Ave	Phone: 203 733 3625
Contractor Name: WRIGHT RYAN CONSTRUCTIO	Contractor Address: 10 DANFORTH ST	Phone: 203 733 3625
		Zone: C-32

Past Use: Commercial	Proposed Use: Commercial / phase 2 of permit # 050534 renovations and additions	Permit Fee: \$7,311.00	Cost of Work: \$810,000.00	CEO District: 1
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Proposed Project Description: phase 2 of permit # 050534 renovations and additions	FIRE DEPT: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied <i>with conditions</i> Signature: <i>Greg Cross</i> PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.) Action: <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied Signature: _____ Date: _____	INSPECTION: Use Group: <i>AB</i> Type: <i>OB</i> <i>2/19/05</i> Signature: <i>[Signature]</i>
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Permit Taken By: dmartin	Date Applied For: 06/29/2005	Zoning Approval
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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..	Special Zone or Reviews <input type="checkbox"/> Shoreland <input checked="" type="checkbox"/> Wetland <i>All original conditions are still in force</i> <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan Maj <input type="checkbox"/> Minor <input type="checkbox"/> MMD Date: <i>OK 6/29/05</i>	Zoning Appeal <input type="checkbox"/> Variance <input type="checkbox"/> Miscellaneous <input checked="" type="checkbox"/> Conditional Use <input type="checkbox"/> Interpretation <input type="checkbox"/> Approved <input type="checkbox"/> Denied Date: _____	Historic Preservation <input checked="" type="checkbox"/> Not in District or Landmark <input type="checkbox"/> Does Not Require Review <input type="checkbox"/> Requires Review <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied Date: <i>[Signature]</i>
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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: 05-0861	Date Applied For: 06/29/2005	CBL: 036 G023001
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Location of Construction: 217 High St	Owner Name: Cumberland County Ymca	Owner Address: 70 Forest Ave	Phone:
Business Name:	Contractor Name: WRIGHT RYAN CONSTRUCT10	Contractor Address: 10 DANFORTH STREET Portland	Phone (207) 773-3625
Lessee/Buyer's Name	Phone:	Permit Type: Additions - Commercial	

Commercial/ phase 2 of permit # 050534 renovations and additions	phase 2 of permit # 050534 renovations and additions
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Dept: Zoning	Status: Approved	Reviewer: Marge Schmuckal	Approval Date: 06/29/2005	Ok to Issue: <input checked="" type="checkbox"/>
Note:				
Dept: Building	Status: Approved with Conditions	Reviewer: Mike Nugent	Approval Date: 07/19/2005	Ok to Issue: <input checked="" type="checkbox"/>
Note:				
1) Need Intermediate handrail on entry stair.				
Dept: Fire	Status: Approved with Conditions	Reviewer: Cptn Greg Cass	Approval Date: 07/05/2005	Ok to Issue: <input checked="" type="checkbox"/>
Note:				
1) Sprinkler system to comply with NFPA 13				
2) Maintain access for fire apperatiuous				
3) Fire alarm system to comply with NFPA 72				
4) All building construction to comply with NFPA 101				

All Purpose Building Permit Application

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.

Location/Address of Construction: <u>YMCA-217 High Street, Port Havel, ME</u>		
Total Square Footage of Proposed Structure <u>2000 SQ/FT</u>	Square Footage of Lot	
Tax Assessor's Chart, Block & Lot Chart# <u>36</u> Block# <u>G</u> Lot# <u>023</u>	Owner: <u>Cumberland County YMCA</u>	Telephone: <u>207-874-1111</u>
Lessee/Buyer's Name (if Applicable)	Applicant name, address & telephone: <u>Wright Ryan Construction</u> <u>10 Danforth St</u> <u>Port Havel, ME 04101</u>	Cost of Work: \$ <u>810,000</u> Fee: \$ <u>7,311</u>
Current use: <u>YMCA Facility</u>		
If the location is currently vacant, what was prior use: _____		
Approximately how long has it been vacant: _____		
Proposed use: <u>Same use - renovation & addition (Phase II)</u>		
Project description: <u>Phase I permit # 050534</u>		
Contractor's name, address & telephone: <u>Wright Ryan Construction</u> <u>Port Havel, ME St. 04101</u>		
Who should we contact when the permit is ready: <u>Nancy Arised</u>		
Mailing address: <u>Same</u> <u>773-3625</u>		
We will contact you by phone when the permit is ready. You must come in and pick up the permit and review the requirements before starting any work, with a Plan Reviewer. A stop work order will be issued and a \$100.00 fee if any work starts before the permit is picked up. PHONE:		

IF THE REQUIRED INFORMATION IS NOT INCLUDED IN THE SUBMISSIONS THE PERMIT WILL BE AUTOMATICALLY DENIED AT THE DISCRETION OF THE BUILDING/PLANNING DEPARTMENT, WE MAY REQUIRE ADDITIONAL INFORMATION IN ORDER TO APPROVE THIS PERMIT.

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.

Signature of applicant: Nancy Arised | Date: 6/21/05

**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**



CURTIS WALTER STEWART
 ARCHITECTS
 434 Cumberland Ave.
 Portland ME 04101-2325
 (207)-774-4441

FAX TRANSMITTAL

DATE: 6/13/05	JOB NO: 04454.hse
ATTENTION: Steve Schuchert	
RE: YMCA - Entry	
# of sheets following: ()	

Wright/Ryan Construction

WE ARE SENDING YOU Attached under separate cover via _____ the following items:

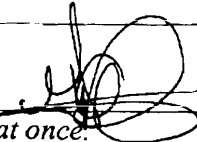
- Submittals Prints Sketches Samples Specifications
 Copy of letter Change Orders _____

COPIES	DATE	# Of Page.	DESCRIPTION
1			City Permit Package

THESE ARE TRANSMITTED as checked below:

- For 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 _____
 FOR BIDS DUE _____ PRINTS RETURNED AFTER LOAN TO US

REMARKS:

Randy,	
Please use the attached package for submission to the City for permitting.	
Thanks, Guy	
COPY TO: File	SIGNED
	Guy Labrecque 

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

From: "Guy Labrecque" <glabrecque@cwsarch.com>
To: "Mike Nugent" <MJN@portlandmaine.gov>
Date: 7/14/2005 10:15:15 AM
Subject: RE: 217 High YMCA Entry questions

Hi Mike,

I think this will clear things up a bit.

1. We are interpreting the entry addition to be an Assembly Use:A-3 (the existing building has a variety of uses but we feel the entry should be A-3. We do not anticipate any fixed seating or food serve. It's simply a circulation and waiting zone supporting the main building.)
2. The entries construction type will be type 2B. Masonry exterior veneer, metal stud back-up. Tube steel and Cold form steel wall and roof framing components.
3. The area of the First Floor of the YMCA main building is 31,695 sf. The new addition will add 2,300 sf to this number.
4. I'll look into this a bit more. Obviously 1009.11.2 would require intermediate rails - (3) to be exact (we'd space them evenly over the 16'-0" stair width on 48" centers). What I'm wondering is were/how the limit of the public way comes into play in this situation. Let me know what you think.
5. Do to the building being considered Type 26 construction we are utilizing fire retardant roof sheathing as allowed by 603.1,1.3 and Table 601, note C.3.i.

Feel free to send along additional questions. I'm happy to address anything I can.

Thanks,

Guy Labrecque

-----Original Message-----

From: Mike Nugent [mailto:MJN@portlandmaine.gov]
Sent: Wednesday, July 13, 2005 2:29 PM
To: glabrecque@cwsarch.com
Subject: 217 High YMCA Entry questions

I have commenced the review and have the following questions:

What use group and type on construction is this building (I & L called is "Assembly" and 2C)

what is the existing footprint square footage of th "Y"

Should there be an intermediate rail on the entry stairs?

We are using Fire retardent treated wood sheathing pursuant to Section 603.1.3.?



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

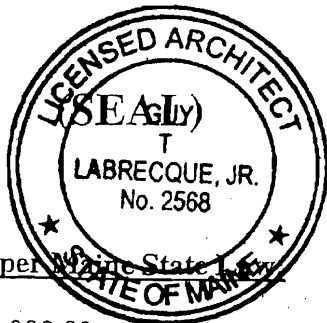
FROM: Guy Labrecque - CWS Architects

RE: Certificate of Design

DATE: 6-12-05

These plans and / or specifications covering construction work on:
YMCA High St. Entry - New entry addition to the YMCA.

Have been designed and drawn up by the undersigned, a Maine registered Architect /
Engineer according to the 2003 International Building Code and local amendments.



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: [Handwritten Signature]

Vice-President

Title: _____

CWS Architects

Firm: _____

434 Cumberland Ave.
Portland, ME 04101

Address: _____



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

ACCESSIBILITY CERTIFICATE

Designer: Guy Labrecque - CWS Architects

Address of Project: 70 Forest Ave.

Nature of Project: YMCA High St. Entry
New entry' addition to the YMCA

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: 

Vice President

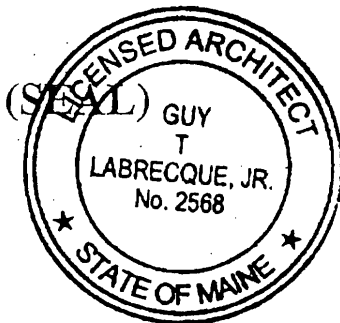
Title: _____

Firm: CWS Architects

Address: 434 Cumberland Ave.

Portland, ME 04101

Phone: 207.774-4441



JOSEPH LEASURE

FROM DESIGNER: L & L STRUCTURAL ENGINEERING SERVICES, INC

DATE: 4/29/05

Job Name: YMCA HIGH STREET ENTRY

Address of Construction: HIGH STREET, PORTLAND, MAINE

2003 International Building Code

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

Building Code and Year IBC 2003 Use Group Classification(s) ASSEMBLY

Type of Construction 2C

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 (see Section 302.3)

Supervisory alarm system? YES Geotechnical/Soils report required? (See Section 1802.2) YES

STRUCTURAL DESIGN CALCULATIONS

YES Submitted for all structural members (108.1, 108.1.1)

DESIGN LOADS ON CONSTRUCTION DOCUMENTS (1808)

Uniformly distributed floor live loads (1808.1.1, 1807)

Floor Area Use	Loads Shown
<u>STAIR & EXITS</u>	<u>100 PSF</u>
<u>LOBBY</u>	<u>100 PSF</u>
_____	_____
_____	_____

<u>NA</u>	Live load reduction (1803.1.1, 1807.8, 1807.10)
<u>42 PSF</u>	Roof live loads (1803.1.2, 1807.11)
_____	Roof snow loads (1803.1.3, 1808)
<u>60</u>	Ground snow load, P_g (1808.2)
<u>42</u>	If $P_g > 10$ psf, flat-roof snow load, P_f (1808.3)
<u>1.0</u>	If $P_g > 10$ psf, snow exposure factor, C_e (Table 1808.3.1)
<u>1.0</u>	If $P_g > 10$ psf, snow load importance factor, I_s (Table 1804.5)
<u>1.0</u>	Roof thermal factor, C_t (Table 1808.3.2)
<u>42</u>	Sloped roof snowload, P_s (1808.4)

Wind loads (1803.1.4, 1808)

<u>1609.1.1</u>	Design option utilized (1808.1.1, 1808.4)
<u>100 MPH</u>	Basic wind speed (1808.5)
<u>1.0</u>	Building category and wind importance factor, I_w (Table 1804.5, 1808.5)
<u>B</u>	Wind exposure category (1808.4)
<u>+/- 0.18</u>	Internal pressure coefficient (ASCE 7)
_____	Component and cladding pressures (1808.1.3, 1808.6.2.2)
<u>14.4/19.4 PSF</u>	Main force wind pressures (1808.1.1, 1808.6.2.1)

<u>B</u>	Seismic design category (1818.3)
<u>K</u>	Basic seismic-force-resisting system (Table 1817.2.2)
<u>0.1/4</u>	Response modification coefficient, R , and deflection amplification factor, C_d (Table 1817.2.2)
<u>1616.6</u>	Analyze procedure (1818.6, 1817.5)
<u>10K</u>	Design base shear (1817.4, 1817.5.1)

_____	Flood loads (1808.1.5, 1812)
_____	Flood hazard area (1812.3)
<u>22 FT</u>	Elevation of structure (MEAN ROOF)

Earthquake design data (1803.1.5, 1814 - 1823)

<u>1615</u>	Design option utilized (1814.1)
<u>II</u>	Seismic use group ("Category") (Table 1804.5, 1818.2)
<u>$S_{DS} = 0.16 / S_{D1} = 0.11$</u>	Spectral response coefficients, S_{DS} & S_{D1} (1818.1)

Other loads	
<u>NA</u>	Concentrated loads (1807.4)
<u>NA</u>	Partition loads (1807.5)
<u>NA</u>	Impact loads (1807.8)
<u>NA</u>	Misc. loads (Table 1807.6, 1807.6.1, 1807.7, 1807.12, 1807.13, 1810, 1811, 2404)

ZONE 4
+17.2/-18.7

ZONE 5
+17.2/-22.5

$S_{DS} = 0.16 / S_{D1} = 0.11$



L & L STRUCTURAL
ENGINEERING SERVICES, INC.

Six Q Street
South Portland, ME 04106
Phone: (207) 767-4830
Fax: (207) 799-5432

April 27, 2005

Guy Lebrecque, P.A.
Curtis Walter Stewart Architects
434 Cumberland Avenue
Portland, Maine 04101

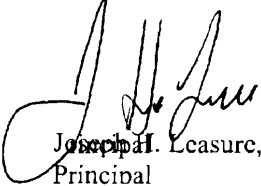
Subject: YMCA High Street Entry Special Inspections – Building Permit.

Dear Mr. Lebrecque,

Attached is the information required to apply for a building permit. Please review its contents and comment if necessary. Note that some additional items are required to be filled out by your office.

Sincerely,

L & L Structural Engineering Services, Inc.



Joseph H. Leasure, P.E.
Principal

Cc: Randy Allred (Wright-Ryan Construction)

L & L STRUCTURAL

ENGINEERING SERVICES, INC.

Six Q Street

South Portland, ME 04106

Phone: (207) 767-4830

Fax: (207) 799-5432

STATEMENT OF SPECIAL INSPECTIONS

PROJECT: YMCA High Street Entry
LOCATION: 231 High Street - Portland, Maine
PERMIT APPLICANT: City of Portland
APPLICANTS ADDRESS: 70 Forest Avenue – Portland, Maine 04101

STRUCTURAL ENGINEER OF RECORD: Joseph H. Leasure, P.E. L&L Structural Engineering Services, Inc.
Name Firm

ARCHITECT OF RECORD: Benedict B. Walter Curtis Walter Stewart Architects
Name Firm

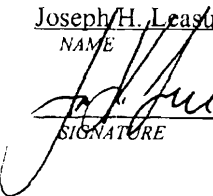
This Statement of Special Inspections is submitted in accordance with **CHAPTER 17** of the 2003 International Building Code (IBC 2003). It includes a listing of special inspections applicable to this project, as well as, the name of the Special Inspector, and the names of other agencies intended to 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 the Registered Design Professional of Record. Interim reports shall be submitted to the Code Official and 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. The special inspections on this project shall be provided by: S.W. Cole Engineering (Agent #1), Structural Engineer of Record (Agent #2).

Prepared BY:

Joseph H. Leasure, P.E.
NAME


SIGNATURE

5/11/05
DATE

Applicant's Authorization:

Building Code Official:

SIGNATURE *DATE*

SIGNATURE *DATE*

Schedule of Inspection and Testing Agencies

This Statement of Special Inspections / Quality Assurance Plan includes the following building systems:

- | | |
|---|--|
| <input checked="" type="checkbox"/> Soils and Foundations | <input type="checkbox"/> Spray Fire Resistant Material |
| <input checked="" type="checkbox"/> Cast-in-Place Concrete | <input checked="" type="checkbox"/> Wood Construction |
| <input type="checkbox"/> Precast Concrete | <input type="checkbox"/> Exterior Insulation and Finish System |
| <input checked="" type="checkbox"/> Masonry | <input type="checkbox"/> Mechanical & Electrical Systems |
| <input checked="" type="checkbox"/> Structural Steel | <input type="checkbox"/> Architectural Systems |
| <input checked="" type="checkbox"/> Cold-Formed Steel Framing | <input type="checkbox"/> Special Cases |

Special Inspection Agencies	Firm	Address, Telephone, e-mail
1. Special Inspection Coordinator	<i>L&L Structural Engineering Services, Inc.</i>	<i>Six Q Street South Portland, Maine 04106 Tel: (207) 767-4830 Fax: (207) 799-5432</i>
2. Inspector #1	<i>S.W. Cole Engineering</i>	<i>286 Portland Road Gray, Maine 04039-9586 Tel: (207) 657-2886 Fax (207) 657-2840</i>
3. Inspector #2	<i>L&L Structural Engineering Services, Inc.</i>	<i>Six Q Street South Portland, Maine 04106 Tel: (207) 767-4830 Fax: (207) 799-5432</i>
4. Testing Agency	<i>S.W. Cole Engineering</i>	<i>286 Portland Road Gray, Maine 04039-9586 Tel: (207) 657-2886 Fax (207) 657-2840</i>
5. Testing Agency		
6. Other		

Note: The inspectors and testing agencies shall be engaged by the Owner or the Owner's Agent, and not by the Contractor or Subcontractor whose work is to be inspected or tested. Any conflict of interest must be disclosed to the Building Official, prior to commencing work.

Quality Assurance for Seismic Resistance

Seismic Design Category	Site Class 'C'
Quality Assurance Plan Required (Y/N)	Y

Description of seismic force resisting system and designated seismic systems:
The Seismic resisting system consists of attaching a plywood diaphragm to the existing structure. The diaphragm delivers the seismic force to the structure through structural steel channels bolted to the existing brick walls.

Quality Assurance for Wind Requirements

Basic Wind Speed (3 second gust)	100 mph
Wind Exposure Category	B
Quality Assurance Plan Required (Y/N)	N

Description of wind force resisting system and designated wind resisting components:
*The **Wind** resisting system consists of attaching a plywood diaphragm to the existing structure. The diaphragm delivers the wind force to the structure through structural steel channels bolted to the existing brick walls.*

A Quality assurance plan is not required per IBC 2003, 1706.1.1. paragraph 1.

Statement of Responsibility

Each contractor responsible for the construction or fabrication of a system or component designated above must submit a Statement of Responsibility.

SCHEDULE OF SPECIAL INSPECTIONS

Project: YMCA HIGH STREET ENTRY

Page: 1 of 3

MATERIAL/ ACTIVITY	ITEM	SERVICE	APPLICABLE TO THIS PROJECT						
			Y/N	EXTENT (All, Sample, Other, None) and testing frequency (Freq:)	COMMENTS	AGENT #	DATE COMPLETED	REV #	
1704.3 STEEL CONST.	1.01								
Steel Fabrication	1.02	Certificate of Mill Test Reports	Y	Submit to the SER		1			
	1.03	Submit welders certification	Y	Submit to the SER		1			
Weld Inspection Structural Steel	1.04	Inspection of field welds for con- formance w/ approved shop dwgs	Y	Perform a visual inspection on 50% of all welds.		1			
	1.05	Review joint details for Compliance w/ approved Const Doc's	Y	Perform a visual inspection on 50% of all joints.		1			
1704.4 CONCRETE CONST.	1.06					1			
Reinforcing Bars	1.07	Review bar size, location & splice length as indicated on the approved shop drawing and design drawings	Y	Freq: Prior to each Conc. placement		1			
Column Anchor Bolts	1.08	Review size and location prior to Concrete Placement	Y	Freq: Prior to Conc. Placmeent		1			
Concrete mix design	1.09	SER shall review and approve mix to be used on the project	Y	Freq: Once prior to Conc Placement		2			
Concrete Placement	1.10	Sample fresh concrete at time of placement in accordance w/ the project drawings & specification for Stregh tests, Slump, Air Content and concrete temperature.	Y	Freq: Test as indicated in the project Manual.		1			
Concrete Placement Techniques	1.11	Inspect placement of fresh concrete (ACI 318: 5.9, 5.10)	Y	Freq: Performed in accodance wth the. Project Specifications.		1			
Concrete Curing Techniques	1.12	Review compliance w/ project specifications (ACI 318: 5.11-5.13)	Y	Review after each slab placement		1			
1704.5 MASONRY CONST.	1.13								
Mortar	1.14	Review proportions of site prepared mortar (ACI 530)	Y	Freq: Periodically		1			
Mortar Joints	1.15	Review construction of mortar Joints	Y	Freq: Periodically		1			

SCHEDULE OF SPECIAL INSPECTIONS

Project: **YMCA HIGH STREET ENTRY**

Page: 3 of 3

MATERIAL/ ACTIVITY	ITEM	SERVICE	APPLICABLE TO THIS PROJECT					
			Y/N	EXTENT (All, Sample, Other, None)	COMMENTS	AGENT #	DATE	
					COMPLETED			
1704.7 SOILS								
Site Preparation	1.24	Verify that the site has been prepared in compliance with the approved soils report.	Y	Freq: Inspect prior to placing concrete footings.		1		
Fill Placement	1.26	Verify that the maximum fill lift is in compliance w/ the design documents, as well as, materials.	Y	Freq: Inspect prior to placing concrete footings or slabs.		1		
Soil compaction	1.27	Verify that the in-place dry density is in compliance with the design drawings.	Y	Freq: Inspect prior to placing concrete footings or slabs.		1		
TIMBER CONSTRUCTION								
Roof Sheathing	1.29	Review sheathing for nail spacing and conformance to the project specifications (i.e. Fire retardent treatment).	Y	Freq: After Installation of the roof sheathing.		1		
LIGHT GAGE FRAMING								
Wall Studs	1.31	Review studs for material grade, zinc coating, plumbness and squareness in track as indicated on the approved shop drawings.		Freq: After installation of the wall Studs.		1		
Roof joists	1.32	Review joists for material grade, zinc coating, spacing and special connections for conformance with approved shop drawings.		Freq: after installation of the roof joists.		1		

of stairway treads, landings or other walking surfaces (see Figure 1009.11.1). This requirement is applicable for all uses, including handrails within a dwelling unit.

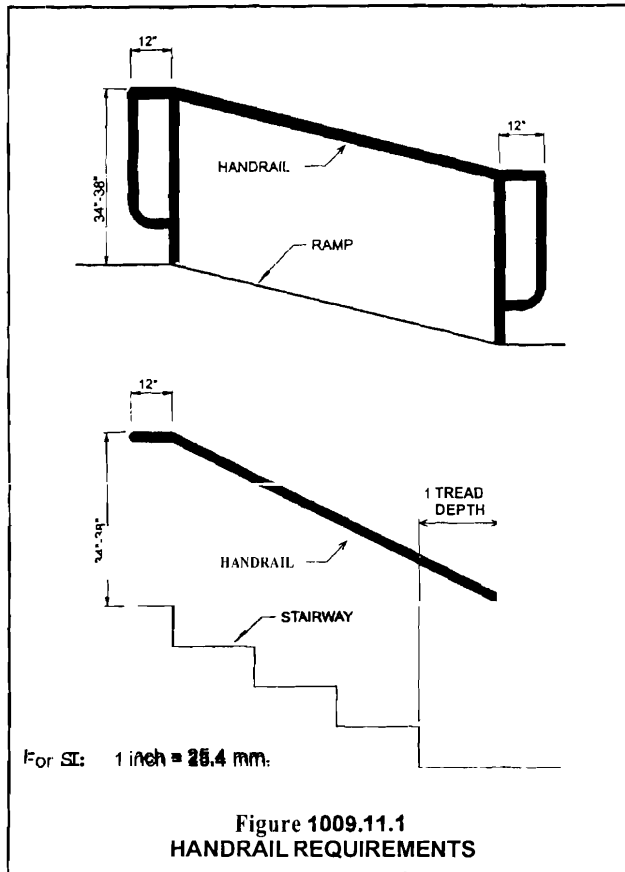


Figure 1009.11.1
HANDRAIL REQUIREMENTS

1009.11.2 Intermediate handrails. Intermediate handrails are required so that all portions of the stairway width required for egress capacity are within 30 inches (762 mm) of a handrail. On monumental stairs, handrails shall be located along the most direct path of egress travel.

❖ In order to always be available to the user of the stairway, the maximum distance to a handrail from within the required width is to be not more than 30 inches (762 mm). People tend to walk adjacent to handrails, and if intermediate handrails are not provided for very wide stairways, the center portion of such stairways will normally receive limited use. More importantly, in emergencies, the center portions of wide stairways with handrails would more aptly be used to speed up egress travel rather than delay it by overcrowding at the sides with the handrails. This would especially be true under panic conditions. Without the requirement for intermediate handrails, the use of wide interior stairways could become particularly hazardous.

The distance to the handrail applies to the "required width" of the stairway. If a stairway is greater than 60 inches (1524 mm) in width, but only 60 inches (1524 mm) are required based on occupant load (see Section 1005.1), intermediate handrails are not required. Adequate safety is provided since the occupants can use the 30 inches (762 mm) within the handrails provided on each side.

The requirement for monumental stairways deals with the very wide stairway in relation to the required width. While handrails on both sides of the stairway may be sufficient to accommodate the required width, the handrails may not be near the stream of traffic or even apparent to the user. In this case, the handrails are to be placed in a location more reflective of the egress path

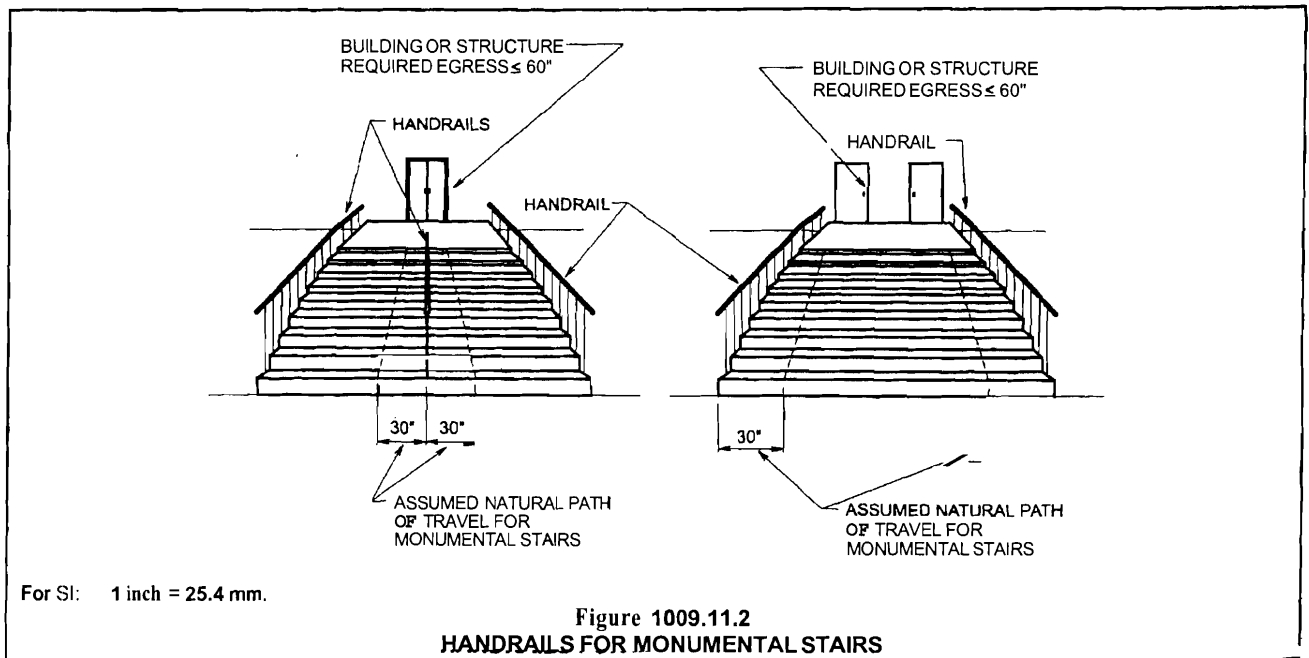


Figure 1009.11.2
HANDRAILS FOR MONUMENTAL STAIRS

L & L STRUCTURAL
ENGINEERING SERVICES, INC.

Six Q Street
South Portland, ME 04106
Phone: (207) 767-4830
Fax: (207) 799-5432

April 27, 2006

Mike Nugent
City of Portland and Department of Urban Development.
Room 315 City Hall
Portland, Maine 04101

Subject: YMCA High Street Entry.

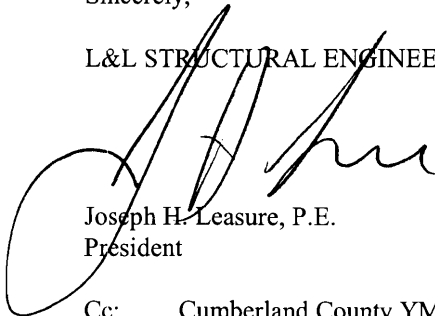
Dear Mr. Nugent,

Attached is the test data, Special Inspection Schedule and Final Report of Special Inspections.

If you have any questions or comments, please do not hesitate to call.

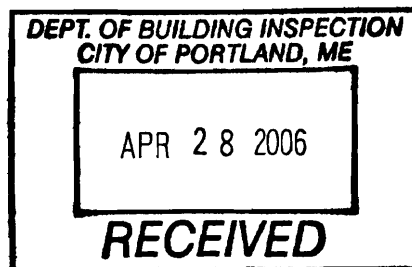
Sincerely,

L&L STRUCTURAL ENGINEERING SERVICES, INC.



Joseph H. Leasure, P.E.
President

Cc: Cumberland County YMCA



L & L STRUCTURAL
ENGINEERING SERVICES, INC.

Six Q Street
South Portland, ME 04106
Phone: (207) 767-4830
Fax: (207) 799-5432

STATEMENT OF SPECIAL INSPECTIONS

PROJECT: **YMCA High Street Entry**
LOCATION: 231 High Street - Portland, Maine
PERMIT APPLICANT: City of Portland
APPLICANTS ADDRESS: 70 Forest Avenue – Portland, Maine 04101

STRUCTURAL ENGINEER OF RECORD: Joseph H. Leasure, P.E. L&L Structural Engineering Services, Inc.
Name Firm

ARCHITECT OF RECORD: Benedict B. Walter Curtis Walter Stewart Architects
Name Firm

This Statement of Special Inspections is submitted in accordance with **CHAPTER 17** of the 2003 International Building Code (IBC 2003). 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.

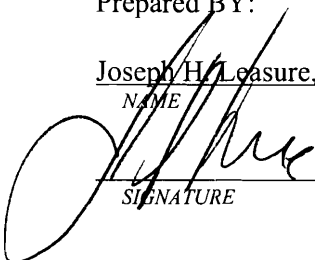
The special inspector shall keep records of all inspections listed herein, and shall furnish inspection reports to the Code Official and to the Registered Design Professional of Record. All discrepancies shall be brought to the immediate attention of the Contractor for correction. If the discrepancies are not corrected the discrepancies shall be brought to the attention of the Code Official and the Registered Design Professional of Record. Interim reports shall be submitted to the Code Official and 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. The special inspections on this project shall be provided by: S.W. Cole Engineering (Agent #1), Structural Engineer of Record (Agent #2).

Prepared BY:

Joseph H. Leasure, P.E.

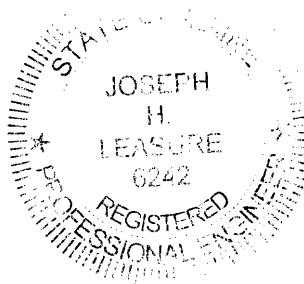
NAME



SIGNATURE

4/27/05

DATE



Applicant's Authorization:

Building Code Official:

SIGNATURE

DATE

SIGNATURE

DATE

Schedule of Inspection and Testing Agencies

This Statement of Special Inspections / Quality Assurance Plan includes the following building systems:

- | | |
|---|--|
| <input checked="" type="checkbox"/> Soils and Foundations | <input type="checkbox"/> Spray Fire Resistant Material |
| <input checked="" type="checkbox"/> Cast-in-Place Concrete | <input checked="" type="checkbox"/> Wood Construction |
| <input type="checkbox"/> Precast Concrete | <input type="checkbox"/> Exterior Insulation and Finish System |
| <input checked="" type="checkbox"/> Masonry | <input type="checkbox"/> Mechanical & Electrical Systems |
| <input checked="" type="checkbox"/> Structural Steel | <input type="checkbox"/> Architectural Systems |
| <input checked="" type="checkbox"/> Cold-Formed Steel Framing | <input type="checkbox"/> Special Cases |

Special Inspection Agencies	Firm	Address, Telephone, e-mail
1. Special Inspection Coordinator	<i>L&L Structural Engineering Services, Inc.</i>	<i>Six Q Street South Portland, Maine 04106 Tel: (207) 767-4830 Fax: (207) 799-5432</i>
2. Inspector #1	<i>S.W. Cole Engineering</i>	<i>286 Portland Road Gray, Maine 04039-9586 Tel: (207) 657-2886 Fax (207) 657-2840</i>
3. Inspector #2	<i>L&L Structural Engineering Services, Inc.</i>	<i>Six Q Street South Portland, Maine 04106 Tel: (207) 767-4830 Fax: (207) 799-5432</i>
4. Testing Agency	<i>S.W. Cole Engineering</i>	<i>286 Portland Road Gray, Maine 04039-9586 Tel: (207) 657-2886 Fax (207) 657-2840</i>
5. Testing Agency		
6. Other		

Note: The inspectors and testing agencies shall be engaged by the Owner or the Owner's Agent, and not by the Contractor or Subcontractor whose work is to be inspected or tested. Any conflict of interest must be disclosed to the Building Official, prior to commencing work.

Quality Assurance Plan

Quality Assurance for Seismic Resistance

Seismic Design Category	<i>Site Class 'C'</i>
Quality Assurance Plan Required (Y/N)	<i>Y</i>

Description of seismic force resisting system and designated seismic systems:

The Seismic resisting system consists of attaching a plywood diaphragm to the existing structure. The diaphragm delivers the seismic force to the structure through structural steel channels bolted to the existing brick walls.

Quality Assurance for Wind Requirements

Basic Wind Speed (3 second gust)	<i>100 mph</i>
Wind Exposure Category	<i>B</i>
Quality Assurance Plan Required (Y/N)	<i>N</i>

Description of wind force resisting system and designated wind resisting components:

The Wind resisting system consists of attaching a plywood diaphragm to the existing structure. The diaphragm delivers the wind force to the structure through structural steel channels bolted to the existing brick walls.

A Quality assurance plan is not required per IBC 2003, 1706.1.1. paragraph 1.

Statement of Responsibility

Each contractor responsible for the construction or fabrication of a system or component designated above must submit a Statement of Responsibility.

Qualifications of Inspectors and Testing Technicians

The qualifications of all personnel performing Special Inspection and testing activities are subject to the approval of the Building Official. The credentials of all Inspectors and testing technicians shall be provided if requested.

Key for Minimum Qualifications of Inspection Agents:

When the Registered Design Professional in Responsible Charge deems it appropriate that the individual performing a stipulated test or inspection have a specific certification or license as indicated below, such designation shall appear below the *Agency Number* on the Schedule.

PE/SE	Structural Engineer – a licensed SE or PE specializing in the design of building structures
PE/GE	Geotechnical Engineer – a licensed PE specializing in soil mechanics and foundations
EIT	Engineer-In-Training – a graduate engineer who has passed the Fundamentals of Engineering examination

American Concrete Institute (ACI) Certification

ACI-CFTT	Concrete Field Testing Technician – Grade 1
ACI-CCI	Concrete Construction Inspector
ACI-LTT	Laboratory Testing Technician – Grade 1&2
ACI-STT	Strength Testing Technician

American Welding Society (AWS) Certification

AWS-CWI	Certified Welding Inspector
AWS/AISC-SSI	Certified Structural Steel Inspector

American Society of Non-Destructive Testing (ASNT) Certification

ASNT	Non-Destructive Testing Technician – Level II or III.
------	---

International Code Council (ICC) Certification

ICC-SMSI	Structural Masonry Special Inspector
ICC-SWSI	Structural Steel and Welding Special Inspector
ICC-SFSI	Spray-Applied Fireproofing Special Inspector
ICC-PCSI	Prestressed Concrete Special Inspector
ICC-RCSI	Reinforced Concrete Special Inspector

National Institute for Certification in Engineering Technologies (NICET)

NICET-CT	Concrete Technician – Levels I, II, III & IV
NICET-ST	Soils Technician - Levels I, II, III & IV
NICET-GET	Geotechnical Engineering Technician - Levels I, II, III & IV

Exterior Design Institute (EDI) Certification

EDI-EIFS EIFS Third Party Inspector

Other

SCHEDULE OF SPECIAL INSPECTIONS

Project: YMCA HIGH STREET ENTRY

Page: 1 of 3

MATERIAL/ ACTIVITY	ITEM	SERVICE	Y/N	APPLICABLE TO THIS PROJECT EXTENT (All, Sample, Other, None) and testing frequency (Freq:)	COMMENTS	AGENT #	DATE	REV
							COMPLETED	#
1704.3 STEEL CONST.	1.01							
Steel Fabrication	1.02	Certificate of Mill Test Reports	Y	Submit to the SER	N/A	1		
	1.03	Submit welders certification	Y	Submit to the SER		1	7-7-05	
Weld Inspection Structural Steel	1.04	Inspection of field welds for conformance w/ approved shop dwgs	Y	Perform a visual inspection on 50% of all welds.	Vis. BY SER	1	1-25-06	
	1.05	Review joint details for Compliance w/ approved Const Doc's	Y	Perform a visual inspection on 50% of all joints.	Vis. BY SER	1	1-25-06	
1704.4 CONCRETE CONST.	1.06					1		
Reinforcing Bars	1.07	Review bar size, location & splice length as indicated on the approved shop drawing and design drawings	Y	Freq: Prior to each Conc. placement	Vis by EOR	1	10-31-05	
	1.08	Column Anchor Bolts	Y	Review size and location prior to Concrete Placement	Vis by EOR	1	7-31-05	
Concrete mix design	1.09		Y	SER shall review and approve mix to be used on the project		2	7-31-05	
Concrete Placement	1.10		Y	Sample fresh concrete at time of placement in accordance w/ the project drawings & specification for Strength tests, Slump, Air Content and concrete temperature.	Vis by EOR	1		
	1.11	Concrete Placement Techniques	Y	Inspect placement of fresh concrete (ACI 318: 5.9, 5.10)	Vis by EOR	1	7-05	
Concrete Curing Techniques	1.12		Y	Review compliance w/ project specifications (ACI 318: 5.11-5.13)	Vis by EOR	1	7-05	
1704.5 MASONRY CONST.	1.13							
Mortar	1.14	Review proportions of site prepared mortar (ACI 530)	Y	Freq: Periodically	NOT VERIFIED	1	-	
	1.15	Mortar Joints	Y	Review construction of mortar Joints		1	2/06	

SCHEDULE OF SPECIAL INSPECTIONS

Project: YMCA HIGH STREET ENTRY

Page: 3 of 3

MATERIAL/ ACTIVITY	ITEM	SERVICE	APPLICABLE TO THIS PROJECT				
			Y/N	EXTENT (All, Sample, Other, None)	COMMENTS	AGENT #	DATE COMPLETED
1704.7 SOILS							
Site Preparation	1.25	Verify that the site has been prepared in compliance with the approved soils report.	Y	Freq: Inspect prior to placing concrete footings.	Vis by EOR	1	7/05
Fill Placement	1.26	Verify that the maximum fill lift is in compliance w/ the design documents, as well as, materials.	Y	Freq: Inspect prior to placing concrete footings or slabs.	Vis by EOR	1	7/05
Soil compaction	1.27	Verify that the in-place dry density is in compliance with the design drawings.	Y	Freq: Inspect prior to placing concrete footings or slabs.	NOT TESTED (LEDGE BEARING)	1	-
TIMBER CONSTRUCTION							
Roof Sheathing	1.29	Review sheathing for nail spacing and conformance to the project specifications (i.e. Fire retardent treatment).	Y	Freq: After Installation of the roof sheathing.	Vis by EOR	1	3/06
LIGHT GAGE FRAMING							
Wall Studs	1.31	Review studs for material grade, zinc coating, plumbness and squareness in track as indicated on the approved shop drawings.		Freq: After installation of the wall Studs.	Vis by EOR	1	3/06
Roof joists	1.32	Review joists for material grade, zinc coating, spacing and special connections for conformance with approved shop drawings.		Freq: After installation of the roof joists.	Vis by EOR	1	3/06

Final Report of Special Inspections

Project: *YMCA High Street Entry*

Location: *231 High Street Portland, Maine 04101*

Owner: *Cumberland County YMCA*

Owner's Address: *70 Forest Avenue
Portland, Maine 04101*

Architect of Record: *Curtis Walter Stewart Architects*

Structural Engineer of Record: *L&L Structural Engineering Services, Inc.*

To the best of my information, knowledge and belief, the Special Inspections required for this project, and itemized in the *Statement of Special Inspections* submitted for permit, have been performed and all discovered discrepancies have been reported and resolved other than the following:

Comments: *None*

(Attach continuation sheets if required to complete the description of corrections.)

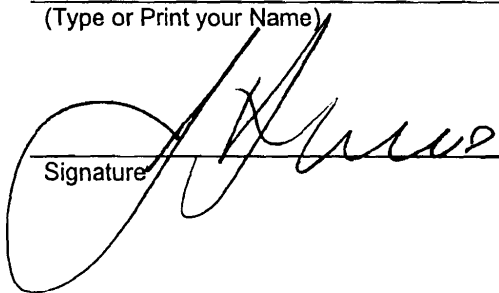
Interim reports submitted prior to this final report form a basis for and are to be considered an integral part of this final report.

Respectfully submitted,
Special Inspector

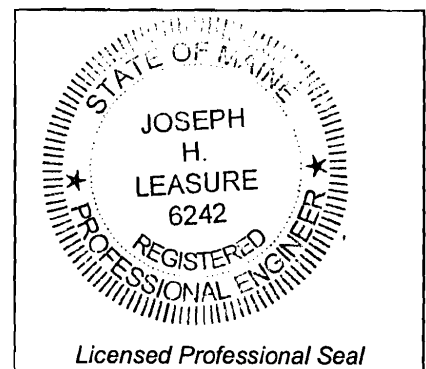
JOSEPH H. LEASURE, P.E.

(Type or Print your Name)

Signature



4/28/06
Date



CONCRETE DESIGN MIX :



10 Danforth Street
 Portland, ME 04101

Phone: 207 773-3625
 Fax: 207 773-5173

Slabs-On Grade Submittal Package 03322M

Received From: DRAGON PBN Sent To: CURTWA BW Returned By: CURTWA BW Forwarded To: DRAGON PBN

SUBMITTAL REVIEW:
 Reviewed for general conformance with the design concept and contract documents. Markings or comments shall not be construed as relieving the Subcontractor from compliance with the project plans and specifications, nor departure therefrom. The Subcontractor remains responsible for details and accuracy, for conforming and correlating all quantities and dimensions, for selecting fabrication processes, for techniques of assembly and for performing the work in a safe manner.
 WRIGHT-RYAN CONSTRUCTION, INC.
 BY: TC DATE: 10/13/2005

Submittal	Revision	Description	APP	AAN	ANR	REJ	Status	Ball In Court	Received	Sent	Returned	Forwarded
Cast-In-Place Concrete												
03300-01	001	Product Data - Mix Design #1 Interior Elevated Slab <i>Interior Elevated Slab</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NEW	CURTWA BW	9/30/2005	10/3/2005		
03300-02	001	Product Data - Mix Design #2 Slab-On-Grade <i>Slab-On-Grade</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NEW	CURTWA BW	9/30/2005	10/3/2005		
03300-03	001	Certification - Fiber Reinforcement Performance <i>SI Concrete Systems</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NEW	CURTWA BW	9/30/2005	10/3/2005		
03300-04	001	Product Data - Fibermesh <i>Fibermesh Fibers</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NEW	CURTWA BW	9/30/2005	10/3/2005		
03300-05	001	Product Data - Normal Range Water Reducer <i>Pozzolith 200N</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NEW	CURTWA BW	9/30/2005	10/3/2005		
03300-06	001	Product Data - Air Entraining Admixture <i>Micro-Air</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NEW	CURTWA BW	9/30/2005	10/3/2005		
03300-07	001	Product Data - High Range Water Reducer <i>Rheobuild 1000</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NEW	CURTWA BW	9/30/2005	10/3/2005		
03300-08	001	Testing/Certification	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NEW	CURTWA BW	9/30/2005	10/3/2005		

L & L STRUCTURAL ENGINEERING SERVICES, INC.
 SIX Q STREET SOUTH PORTLAND, ME 04106
 (207) 767-4830
 REVIEW IS RENDERED AS A COURTESY TO THE CONTRACTOR ONLY AND IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS. NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS.
 NO EXCEPTIONS TAKEN REUSE & RESUBMIT
 MAKE CORRECTIONS NOTED REJECT-RESUBMIT
 BY: JHC DATE: 10/14/05



Corporate Offices

38 Preble St. • P.O. Box 1521
 Portland, Maine 04104
 207-774-6355 • Fax 207-761-5694

seeMIX II Mix Report
 404112

Strength Compressive: 4,000 psi
 9/28/2005

Contractor : WRIGHT - RYAN CONSTRUCTION
 Project : YMCA ENTRY
 Source of Concrete : DRAGON PRODUCTS COMPANY
 Construction Type : MIX #1
 Placement : CHUTE, PUMP

Weights per Cubic Yard	(Saturated, Surface-Dry)		Yield, ft ³
	Quantity	Density	
DRAGON, TYPE II, lb	480	3.150	2.44
LAFARGE, NEWCEM, lb	120	2.820	0.68
Water, lb	265	1.000	4.25
3/4" QUARRY STONE, ASTM C-33, lb	1,820	2.700	10.80
FINE AGGREGATE, ASTM C-33, lb	1,283	2.650	7.76
MASTER BUILDERS: POZZOLITH 200N, oz (US)	18.0	1.000	0.02
MASTER BUILDERS: MICRO-AIR, oz (US)	3.0	1.000	0.00
(OPTIONAL) M.B.: RHEOBUILD 1000, oz (US)	60.0	1.000	0.06
Total Air, %	4.0 ± 1.0		1.08
		TOTAL	27.10
Water/Cement Ratio, lbs/lb	0.44		
Slump, High, in	4.00		
Low, in	2.00		
Super Plasticizer High, in	8.00		
Super Plasticizer Low, in	5.00		
Concrete Unit Weight, pcf	146.61		
Yield, %	100.4		
Exposure Condition : Severe exposure			

NEWCEM PERCENTAGE MAY BE ADJUSTED FOR AMBIENT TEMP VARIATION

Prepared by :

 TECHNICAL SERVICES

9/28/2005

DRAGON[®]
 PRODUCTS COMPANY

1



Corporate Offices

38 Preble St. • P.O. Box 1521
 Portland, Maine 04104
 207-774-6355 • Fax 207-761-5694

seeMIX II Mix Report
 354120s
 Strength Compressive: 3,500 psi
 9/28/2005

Contractor : WRIGHT - RYAN CONSTRUCTION
 Project : YMCA ENTRY
 Source of Concrete : DRAGON PRODUCTS COMPANY
 Construction Type : MIX #2
 Placement : CHUTE, PUMP

	Weights per Cubic Yard		(Saturated, Surface-Dry)	
	Quantity	Density	Quantity	Density
DRAGON, TYPE II, lb	424	3.150		
LAFARGE, NEWCEM, lb	106	2.820		
Water, lb	244	1.000		
3/4" QUARRY STONE, ASTM C-33, lb	1,750	2.700		
FINE AGGREGATE, ASTM C-33, lb	1,478	2.650		
MASTER BUILDERS: POZZOLITH 200N, oz (US)	15.9	1.000		
MASTER BUILDERS: MICRO-AIR, oz (US)	2.7	1.000		
Total Air, %	4.0 ± 1.0			
			TOTAL	27.10

Water/Cement Ratio, lbs/lb 0.46
 Slump, High, in 3.00
 Low, in 1.00
 Super Plasticizer High, in 8.00
 Super Plasticizer Low, in 5.00
 Concrete Unit Weight, pcf 147.73
 Yield, % 100.4
 Exposure Condition : Severe exposure

NEWCEM PERCENTAGE MAY BE ADJUSTED FOR AMBIENT TEMP VARIATION

Prepared by :

TECHNICAL SERVICES

9/28/2005

DRAGON[®]
 PRODUCTS COMPANY

1

Certification

Fiber Reinforcement Performance

Material Requirements:

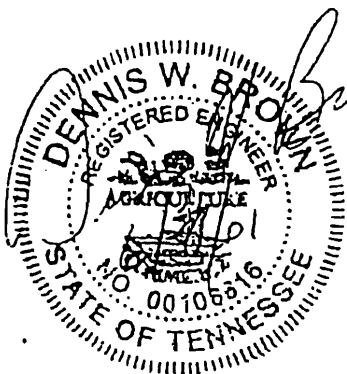
SI Concrete Systems hereby certifies that our Fibermesh® InForce™ fibers are made from 100% homopolymer virgin polypropylene fibrillated fibers containing no reprocessed olefin materials and are specifically engineered and manufactured to an optimum gradation for uses as fibrous reinforcement for concrete. Fibermesh InForce fibers meet the material specifications described in ASTM C-1116, Type III, Section 4.13, "Synthetic Fiber-Reinforced Concrete or Shotcrete."

Performance Requirements:

We further certify that concrete test specimens produced both in the field and in the laboratory containing a minimum of 0.1% by volume (1.5 lbs. per cubic yard) of Fibermesh InForce fibrillated polypropylene fibers, have been evaluated in independent test laboratories and have met or exceeded the specified value (≥ 3.0) for Performance Level I of ASTM C-1116-95, I_s Toughness Index. Fibermesh InForce fibers are an alternate system to welded wire fabric when used for non-structural secondary reinforcement in hardened concrete.



Dennis Brown, P.E.
Design Engineer



SI Concrete Systems

USA
4019 Industry Drive
Chattanooga, TN 37416
Tel: 423-892-8080
Fax: 423-892-0157

Europe
Hayfield House, Devonshire Street
Chesterfield
Derbyshire, United Kingdom S41 7ST
Tel: (+44) 1246 564200
Fax: (+44) 1246 564201



FIBERMESH[®] Fibers

State-of-the-art secondary reinforcement system for concrete

DESCRIPTION:

FIBERMESH polypropylene fibers are engineered exclusively for concrete. The fibers are uniformly distributed throughout the concrete in all directions, providing effective secondary reinforcement for shrinkage crack control.

RECOMMENDED FOR:

- The reduction of concrete cracking as a result of intrinsic stresses.
- Use as a superior method and cost-effective alternate to welded wire fabric for secondary and/or temperature reinforcement.
- Greater impact, abrasion, shatter and fatigue resistance in concrete.
- Placements where all materials must be non-metallic.
- Areas requiring materials which are both alkali-proof and chemical resistant.

FEATURES/BENEFITS:

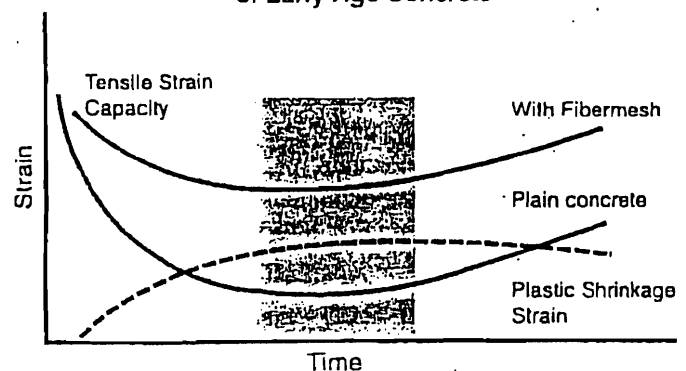
- Reinforces against plastic shrinkage and settlement crack formation, impact forces, shattering and abrasion.
- Holds cracks together with residual strength.
- Rustproof and corrosion resistant.
- Non-magnetic
- Always positioned in compliance with codes.

PACKAGING/ESTIMATING:

FIBERMESH fibers are available in a variety of package sizes to meet the needs of virtually every application. Contact your local Master Builders or FIBERMESH representative for specific sizes.

PERFORMANCE DATA:

Principle of Tensile Strain and Tensile Strain Capacity of Early Age Concrete



RELATED BULLETINS:

- Brochure FM-115 FIBERMESH
- Brochure FX-118 FIBERMESH Stealth Fibers
- Brochure FM-121 FIBERMESH MD Product Bulletin
- Data Sheet
- Material Safety Data Sheet

*FIBERMESH is a registered trademark of Synthetic Industries.

degussa.
Construction Chemicals

Master Builders, Inc.
New England Area
800-722-8899

January 3, 2005

Certificate of Conformance
Pozzolith 200N
Master Builders Admixture for Concrete

TO WHOM IT MAY CONCERN:

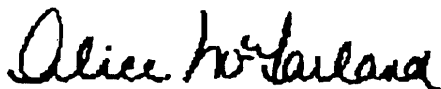
I, Alice McFarland, Manager, Quality Assurance for Degussa Construction Chemicals and Degussa Admixtures, Inc., Cleveland, Ohio, certify:

That no calcium chloride or chloride based ingredient is used in the manufacture of Pozzolith 200N; and

That Pozzolith 200N, based on the chlorides originating from all the ingredients used in its manufacture, contributes less than 0.00013 percent (1.3 ppm) chloride ions by weight of the cement when used at the rate of 65 ml per 100 kg (1 fluid ounce per 100 pounds) of cement; and

That Pozzolith 200N meets the requirements for a Type A, Water-Reducing Admixture specified in ASTM C 494-99, Corps of Engineers' CRD-C 87-93, and AASHTO M194-00, the Standard Specifications for Chemical Admixtures for Concrete.

Alice McFarland



Manager, Quality Assurance
Degussa Construction Chemicals





Master Builders
Technologies

POZZOLITH® 200N

Concrete admixture

DESCRIPTION:

POZZOLITH 200N liquid admixture is ready-to-use for making more uniform and predictable quality concrete. It meets ASTM C-494 requirements for Type A water-reducing, Type B retarding and Type D retarding and water-reducing admixtures, specifically:

- Increased strength – compressive and flexural
- Relative durability to damage from freezing and thawing – wet above industry standards
- Reduced water content required for a given workability
- Normal setting characteristics

ADVANTAGES:

Concrete with POZZOLITH 200N admixture sets at a rate comparable to plain concrete while providing the following special qualities:

- Improved workability
- Reduced segregation
- Improved finishing characteristics for flatwork and cast surfaces
- Effective as a singular admixture or as a component in an admixture system

WHERE TO USE:

POZZOLITH 200N admixture is recommended for use in all types of concrete where normal-setting characteristics are desired.

As a result of the above advantages, this admixture improves pumped concrete, shotcrete (wet mix), and conventionally placed concretes. It improves plain, reinforced, precast, prestressed, lightweight or standard weight concrete.

POZZOLITH 200N admixture can be used with air-entraining cements and with air-entraining admixtures approved under AASHTO, ASTM and CRD specifications – including those manufactured by Master Builders – if air-entrained concrete is desired. When used in conjunction with another admixture, each admixture must be dispensed separately into the mix.

POZZOLITH 200N admixture will not initiate or promote corrosion of reinforcing steel in concrete. This admixture does not contain intentionally added calcium chloride or chloride-based ingredients. The admixture, due to chlorides originating from all the ingredients used in its manufacture, contributes less than 0.00015% (1.5 PPM) chloride ions by weight of the cement when used at the rate of 1 fl oz per 100 lb (65 ml per 100 kg) of cement.

POZZOLITH 200N admixture can be used in white, colored and architectural concrete.

QUANTITY TO USE:

POZZOLITH 200N admixture is recommended for use at a rate of 4 ± 2 fl oz per 100 lb (280 ± 65 ml per 100 kg) of cement for most concrete mixes using average concrete ingredients. However, it is appreciated that variations in job conditions and concrete materials may make usage rates outside the recommended dosage range desirable. In such cases, contact your local Master Builders representative.

PACKAGING:

POZZOLITH 200N admixture is supplied in 55 U.S. gallon (208 litre) drums and by bulk delivery.

TEMPERATURE PRECAUTION:

If POZZOLITH 200N admixture has frozen, thaw at 35 °F (2 °C) or above and completely reconstitute by mild mechanical agitation. Do not use pressurized air for agitation.

For additional information on POZZOLITH 200N admixture or on its use in developing a concrete mix with special performance characteristics, contact your local Master Builders representative.

Master Builders, Inc.
United States
23700 Chagrin Boulevard
Cleveland, Ohio 44122-5554
(800) MBT-9990
Fax (216) 831-6910

Canada
3637 Weston Road
Toronto, Ontario M9L 1W1
(800) 387-5862
Fax (416) 741-7925

Mexico
Blvd. M. Avila Camacho 80, 3er Piso
53390 Naucalpan, México
011-525-557-5544
Fax 011-525-395-7903

Master Builders, Inc.
New England Area
800-722-8899

January 3, 2005

Certificate of Conformance
Micro-Air
Master Builders Air-Entraining Admixture for Concrete

TO WHOM IT MAY CONCERN:

I, Alice McFarland, Manager, Quality Assurance for Degussa Construction Chemicals and Degussa Admixtures, Inc., Cleveland, Ohio, certify:

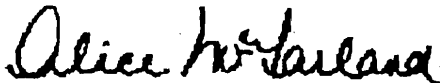
That Micro-Air is Master Builders air-entraining admixture for concrete; and

That no calcium chloride or chloride based ingredient is used in the manufacture of Micro-Air; and

That Micro-Air, based on the chlorides originating from all the ingredients used in its manufacture, contributes less than 0.0001 percent (1.0 ppm) chloride ions by weight of the cement when used at the rate of 65 ml per 100 kg (1 fluid ounce per 100 pounds) of cement; and

That Micro-Air meets the requirements of ASTM C 260-01, Corps of Engineers CRD-C 13-97, and AASHTO M154-00, the Standard Specifications for Air-Entraining Admixtures for Concrete.

Alice McFarland



Manager, Quality Assurance
Degussa Construction Chemicals



MICRO-AIR*

Admixture for Entraining Air in Concrete

DESCRIPTION:

MICRO-AIR is an air-entraining admixture which gives concrete extra protection by creating ultra-stable air bubbles that are strong, small and closely spaced—a characteristic especially useful in the types of concrete known for their difficulty to entrain and maintain the air content desired.

Even when used at a lower dosage rate than standard air-entraining admixtures, MICRO-AIR meets the requirements of ASTM C 260, AASHTO M 154, CRD-C 13 and other Federal and State specifications.

ADVANTAGES OF AIR ENTRAINMENT:

The entrainment of optimum air content in concrete results in the following improvements in concrete quality:

- Increased resistance to damage from freeze/thaw cycles and to scaling from deicing salts'
- Reduced permeability—increased watertightness
- Reduced segregation and bleeding
- Improved plasticity and workability

Concrete durability research has established that the best protection for concrete from the adverse effects of freeze/thaw cycles and deicing salts results from:
• proper air content in the hardened concrete; • a suitable air-void system in terms of bubble size and spacing; and • adequate concrete strength, assuming the use of sound aggregates and proper mixing, placing, handling and curing techniques.

When unusually low or high amounts of an air-entraining admixture are required to achieve normal ranges of air content or if the required amount of air-entraining admixture necessary to achieve required levels of air content is observed to change significantly under given conditions, the reason should be investigated. In such cases, it is especially important to determine: (a) that a proper amount of air is contained in the fresh concrete at the point of placement; and (b) that a suitable air-void system (spacing factor) is being obtained in the hardened concrete.

ADVANTAGES OF MICRO-AIR:

- Greatly improved stability of air entrainment
- Improved air-void system in hardened concrete
- Improved ability to entrain and retain air in low-slump concrete; concrete containing high-carbon-content fly ash; concrete containing large amounts of fine materials; concrete using high-alkali cements; high-temperature concrete; and concrete with extended mixing times

FEATURES/BENEFITS:

Ready to Use—Solution is the proper concentration for rapid, accurate dispensing.

Compatible for Use—MICRO-AIR admixture is compatible with concrete containing other admixtures—water-reducers, high-range water-reducers, accelerators, retarders, and water repellents.

The use of MICRO-AIR air-entraining admixture with Master Builders water-reducing, set-controlling admixtures forms a desirable combination for producing the highest quality, normal or lightweight concrete. Heavyweight concrete normally does not contain entrained air.

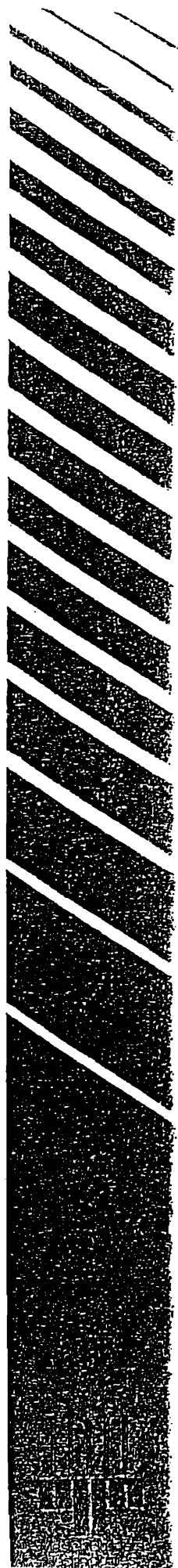
NOTE: As stated in ACI 212 and other publications, when two or more admixtures are used, they must be added to the mix separately (through dispensers or manually) and must not be mixed with each other prior to adding to the concrete mix.

For optimum, consistent performance, the air-entraining admixture should be dispensed on damp, fine aggregate or with the initial batch water. When using lightweight aggregate, field evaluations should be conducted to determine the best method to dispense the air-entraining admixture.

USAGE INFORMATION:

Add MICRO-AIR admixture to the concrete mix using a dispenser designed for air-entraining admixtures; or add manually using a suitable measuring device that ensures accuracy within plus or minus 3% of the required amount.

Measure the air content of the trial mix and either increase or decrease the quantity of MICRO-AIR admixture to obtain the desired air content in the production mix. Check the air content of the first batch and make further adjustments if needed. Due to possible changes in the factors that affect the dosage rate of MICRO-AIR, frequent checks should be made during the course of the work. Adjustments to the dosage should be based on the amount of entrained air in the mix at the point of placement.



QUANTITY TO USE:

There is no standard dosage rate for MICRO-AIR admixture. The exact quantity of air-entraining admixture needed for a given air content of concrete is not predictable because of differences in concrete-making materials. Typical factors which might influence the amount of air entrained are: temperature, cement, sand grading, mix proportions, slump, means of conveying and placement, use of extra fine materials such as fly ash, etc.

The amount of MICRO-AIR admixture used will depend upon the amount of entrained air required under actual job conditions. In a trial mix, use 1/8 to 1-1/2 fl oz/100 lbs (8 to 98 ml/100 kg) of cement. In mixes containing water-reducing, set-controlling admixtures, the amount of MICRO-AIR needed is somewhat less than the amount required in plain concrete. In mixes requiring a higher or lower dosage to obtain the desired air content, consult your local Master Builders representative.

AIR CONTENT DETERMINATION:

The total air content of normal weight concrete should be measured in strict accordance with ASTM C 231, "Standard Test Method for Air Content of Freshly Mixed Concrete by the Pressure Method" or ASTM C 173, "Standard Test Method for Air Content of Freshly Mixed Concrete by the Volumetric Method." The air content of lightweight concrete should only be determined using the Volumetric Method.

The air content should be verified by calculating the gravimetric air content in accordance with ASTM C 138, "Unit Weight, Yield, and Air Content (Gravimetric) of Concrete." If the total air content, as measured by the Pressure Method or Volumetric Method and as verified by the Gravimetric Method, deviates by more than 1-1/2%, the cause should be determined and corrected through equipment calibration or by whatever process is deemed necessary.

TEMPERATURE PRECAUTION:

MICRO-AIR admixture should be stored and dispensed at 35°F (2°C) or higher. Although freezing does not harm this product, precautions should be taken to protect it from freezing. If it freezes, thaw and reconstitute by mild mechanical agitation. Do not use pressurized air for agitation.

PACKAGING:

MICRO-AIR admixture is supplied in 55 U.S. gallon (208 liter) drums and bulk delivery.

CAUTION:

MICRO-AIR admixture is a CAUSTIC solution. Chemical goggles and gloves are recommended if transferring or handling large quantities of material. (See MSDS and/or product label for complete information.)

NON-CHLORIDE, NON-CORROSIVE:

MICRO-AIR admixture will not initiate or promote corrosion of reinforcing steel embedded in concrete, prestressed concrete or concrete placed on galvanized steel floor and roof systems. Calcium chloride is not an added ingredient in the manufacture of MICRO-AIR admixture. Based on the chlorides originating from all ingredients used in manufacture, MICRO-AIR admixture contributes less than 0.0001% (1.0 ppm) chloride ions by weight of the cement when used at the rate of 1 fl oz per 100 lbs (65 ml per 100 kg) of cement.

For suggested specification information or for additional product data on MICRO-AIR air-entraining admixture, contact your local Master Builders representative.



Master Builders, Inc.
Admixture Division
23700 Chagrin Boulevard
Cleveland, Ohio 44122-5554
(216) 831-5500
Fax (216) 831-3470

Master Builders Technologies Ltd.
79 Kincort Street
Toronto, Ontario M6M 3E4
(416) 247-7135

degussa.
Construction Chemicals

Master Builders, Inc.
New England Area
800-722-8899

January 3, 2005

Certificate of Conformance
Rheobuild 1000
Master Builders Admixture for Concrete

TO WHOM IT MAY CONCERN:

I, Alice McFarland, Manager, Quality Assurance for Degussa Construction Chemicals and Degussa Admixtures, Inc., Cleveland, Ohio, certify:

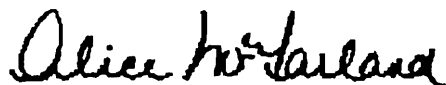
That no calcium chloride or chloride based ingredient is used in the manufacture of Rheobuild 1000; and

That Rheobuild 1000, based on the chlorides originating from all the ingredients used in its manufacture, contributes less than 0.00008 percent (0.8 ppm) chloride ions by weight of the cement when used at the rate of 65 ml per 100kg (1 fluid ounce per 100 pounds) of cement; and

That Rheobuild 1000 meets the requirements for a Type F, Water-Reducing, High Range Admixture, specified in ASTM C 494-99, Corps of Engineers' CRD-C 87-93, and AASHTO M194-00, the Standard Specifications for Chemical Admixtures for Concrete; and

That Rheobuild 1000 meets the requirements for a Type 1, Plasticizing Admixture specified in ASTM C 1017-98, the "Standard Specification for Chemical Admixtures for Use in Producing Flowing Concrete".

Alice McFarland



Manager, Quality Assurance
Degussa Construction Chemicals



RHEOBUILD® 1000

For the production of rheoplastic concrete

DESCRIPTION:

RHEOBUILD 1000 is a high-range, water-reducing admixture, one of a complete line of Rheobuild admixtures formulated to produce rheoplastic concrete. Rheoplastic concrete flows easily, maintaining high plasticity for time periods unmatched by any other superplasticized concrete. Yet it has the low water/cement ratio of no-slump concrete, providing excellent engineering (hardened) properties. The slump-retention characteristics of rheoplastic concrete permit the addition of RHEOBUILD 1000 admixture at the batch plant.

This ready-to-use, liquid admixture meets ASTM C 494 requirements for Type A and Type F admixtures.

ADVANTAGES IN THE PLASTIC STATE:

RHEOBUILD 1000 admixture aids in the production of concrete with these special qualities:

- Plasticity range of 8 to 11" (200 to 280 mm)
- Extended slump retention
- Controlled time of set
- Cohesive and non-segregating
- Minimal bleed water

ADVANTAGES IN THE HARDENED STATE:

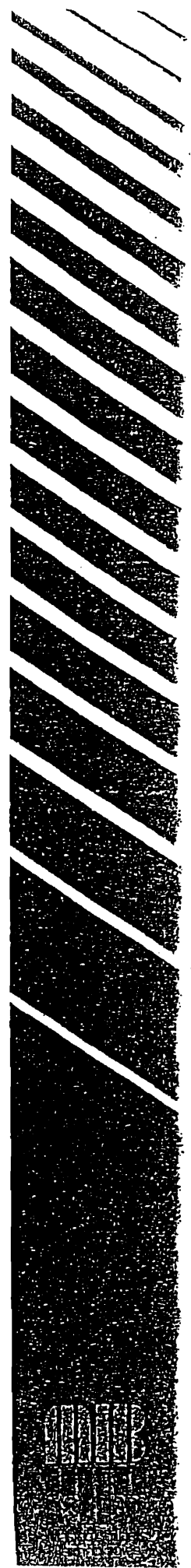
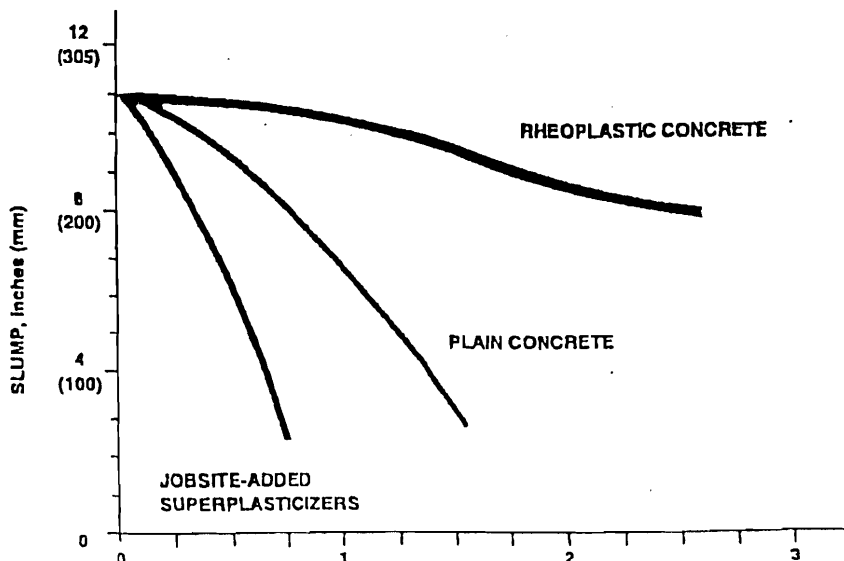
Through improved cement hydration efficiency, less dependence on consolidation energy and potential mix proportion adjustments, concrete treated with RHEOBUILD 1000 admixture provides the following engineering properties:

- Higher earlier strengths than can be achieved with conventional superplasticizers
- Increased ultimate compressive strength
- Higher modulus of elasticity
- Improved bond strength to steel
- Low permeability
- High durability
- Reduced shrinkage and creep
- Highly reliable in-place structural integrity

BENEFITS:

The economic benefits are both immediate and long-term, and extend to the total construction team. Use of rheoplastic concrete saves job time and cost through higher productivity rates or reduced labor. The higher early strength achieved with rheoplastic concrete allows for accelerated construction methods, resulting in completion dates ahead of schedule. Also, rheoplastic concrete permits engineering specification changes that allow for greater limits on the free-fall of concrete, lift heights and concrete temperatures, and potential economic mix adjustments.

SLUMP RETENTION VS. TIME



AMER

WHERE TO USE:

RHEOBUILD 1000 admixture is recommended for use in concrete where high plasticity, normal-setting characteristics and accelerated strengths are desired.

As a result of the preceding advantages and benefits, this admixture will improve performance in prestressed, precast and ready-mixed concrete applications.

RHEOBUILD 1000 admixture can be used with portland cements approved under ASTM, AASHTO or CRD specifications. The use of RHEOBUILD 1000 and a Master Builders air-entraining admixture is recommended whenever concrete is required to withstand freeze/thaw cycles. It is strongly recommended that concrete be properly cured.

RHEOBUILD 1000 can be used effectively as a singular admixture or as a component in a Master Builders admixture system. When used in conjunction with another admixture, each admixture must be dispensed separately into the mix.

DIRECTIONS FOR USE:

Because slump retention is increased using RHEOBUILD 1000 admixture, it may be batched at the ready-mix plant as opposed to jobsite addition often required when using other high-range water-reducers.

NOTE: For directions on the proper evaluation and use of RHEOBUILD 1000 admixture in specific applications, contact your local Master Builders representative.

WORKABILITY:

Concrete containing RHEOBUILD 1000 admixture has the ability to maintain a rheoplastic state [8 to 11" (200 to 280 mm)] for up to two hours, if such workability is required. The precise duration of workability depends not only on temperature, but also on the type of cement, mix proportions, the nature of the aggregates, the method of transport, and the dosage rate of RHEOBUILD 1000 admixture.

For additional information on RHEOBUILD 1000 admixture or on its use in developing a concrete mixture with special performance characteristics, contact your local Master Builders representative.

QUANTITY TO USE:

RHEOBUILD 1000 admixture is recommended for use at a rate of 10 to 25 fl oz per 100 lb (0.65 to 1.6 liters per 100 kg) of cementitious materials, depending upon the application, and the amount of strength acceleration needed or slump increase desired.

This dosage range applies for most concrete mixes using average concrete ingredients. However, variations in job conditions and concrete materials, such as silica fume, may make usage rates outside the recommended dosage range desirable. In such cases, contact your local Master Builders representative.

RATE OF HARDENING:

RHEOBUILD 1000 admixture is formulated to produce normal-setting characteristics throughout its recommended dosage range.

Setting time of concrete is influenced by the chemical and physical composition of the basic ingredients of the concrete, temperature of the concrete and climatic conditions. Trial mixes should be made with job materials to determine the dosage required for a specified setting time and a given strength requirement.

PACKAGING:

RHEOBUILD 1000 admixture is supplied in 55 U.S. gallon (208 liter) drums and bulk delivery.

TEMPERATURE PRECAUTION:

If RHEOBUILD 1000 admixture has frozen, thaw at 45 °F (7 °C) or above and completely reconstitute by mild mechanical agitation. Do not use pressurized air for agitation.

NON-CHLORIDE, NON-CORROSIVE:

RHEOBUILD 1000 admixture will not initiate or promote corrosion of reinforcing steel embedded in concrete, prestressed concrete or concrete placed on galvanized steel floor and roof systems. Neither calcium chloride nor any chloride-based ingredients are used in the manufacture of RHEOBUILD 1000. In all concrete applications, RHEOBUILD 1000 admixture conforms to the most stringent or minimum chloride ion limits currently suggested by construction industry standards and practices.



Master Builders, Inc.
23700 Chagrin Boulevard
Cleveland, Ohio 44122-5554
(800) MBT-9990
Fax (216) 831-3470

Master Builders Technologies, Ltd.
3637 Weston Road
Toronto, Ontario M9L 1W1
(800) 387-5862
Fax (416) 741-7925

BLUE ROCK INDUSTRIES
58 MAINE STREET
WESTBROOK, MAINE

Location:	WESTBROOK	Date:	2/	Product:	VARIOUS	Sieve Analysis
Subject:	YEARLY ANALYSIS	By:	LAB	Project:		

Subject	3"	2 1/2"	2"	1 1/2"	1 1/4"	1"	3/4"	5/8"	1/2"	3/8"	#3	#4	#6	#8	#10	#15	#20	#30	#40	#50	#80	#100	#200				
1 1/2" CR.STN.	2003		100	92		51	17	8	4	2		1.2												1.2	WASH		
3/4" CR.STN.						100	93	71	35	8		1		0.6											1	WASH	
1/2" CR.STN.							100		94	66	26	10		2.1											0.7	WASH	
3/8" CR.STN.									100	91	43	19		3		1.4										1	WASH
1/4" CR.STN.											100	94	60	31	20	7		2.6								1.6	WASH
STONE DUST													100	98	93	68	54	42	32	23	14	11	7.1		WASH		
M-50 SAND										100		96		89		69		38		15		5	1.3		WASH		
R.A.P.									100	97		74		57		43		30		19		12	8.1		WASH		
PRO-BASE				100		92	87		81	75		65		53		41		29		18		12	8.8		WASH		
POND FINES												100	100	100	99	98	98	97	97	96	93	92	76.2		WASH		

Subject	Specific Gravity			L.A. Abrasion	Soundness		Unit Weight	
	Bulk	Apparent	Absorption		NA 2	MG	Loose	Rodded
1 1/2" CR.STN.	2.718	2.732	0.19	24.3% TYPE III			2176	2507
3/4" CR.STN.	2.699	2.722	0.32	15.7% TYPE B		0.46%	2294	2616
1/2" CR.STN.	2.686	2.726	0.44	17.2% TYPE C		0.21%	2363	2708
3/8" CR.STN.	2.682	2.732	0.68				2215	2538
1/4" CR.STN.	2.636	2.733	1.04				2289	2503
STONE DUST	2.628	2.702	1.04				2451	2730
M-50 SAND	2.559	2.620	0.91			2.62%	2642	2860
R.A.P.	2.661	(Gse)					2246	2453

	FRACTURE COUNT		FLAT & ELONG.
	1 FACE	2 FACE	
3/4" CR.STN.	100.0%	100.0%	2.5%
1/2" CR.STN.	100.0%	100.0%	1.0%
3/8" CR.STN.	100.0%	100.0%	0.0%



P.O. Box 191, U.S. Route 1 • Thomaston, Maine 04861 • 207-594-5555

January 14, 2005

Dragon Products Company Inc
38 Preble Street
Portland, ME 04104
FAX (207) 553-7450

Attn: Mark West

At your request, we are supplying the following certification in accordance with the proposed usage of Dragon Products Company's Portland Cement, Type II.

It is herein certified that Dragon Products Company's Portland Cement, Type II, as manufactured at Thomaston, Maine, meets the requirements of ASTM Specification C-150. This product will also meet or exceed the requirements of ASTM Specification C-150 for Type I Cement.

Dragon Products Company's Portland Cement, Type II conforms to the material requirements of ASTM Specification C-270 and when used with other materials and proportioning which meet the requirements of this Specification, produces mortar in compliance with ASTM Specification C-270.

Very truly yours,

Jennifer K. Colburn

Quality Control Manager

Enclosure



P.O. Box 191, U.S. Route 1 • Thomaston, Maine 04861 • 207-594-5555

MILL TEST RESULTS Laboratory at Thomaston, Maine	Date: January, 2005 Cement Type: I/II
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CHEMICAL DATA	Percent	PHYSICAL DATA	
Silicon Dioxide.....	20.0	Specific Surface.....	388
Aluminum Dioxide.....	4.4	Blaine (sq m /kg)	
Ferric Oxide.....	2.9	Percent Passing 325 Mesh.	87.5
Calcium Oxide.....	62.8	Compressive Strength (psi)	
Magnesium Oxide.....	2.8	Mortar Cubes	
Sulphur Trioxide.....	3.7	1 day.....	2610
Loss on Ignition.....	1.8	3 day.....	3770
Insoluble Residue.....	0.2	7 day.....	4580
Tricalcium Silicate.....	59	28 day.....	
Dicalcium Silicate.....	13	Vicat Setting Time	
Tricalcium Aluminate.....	7	Initial (min.).....	105
Sodium Oxide.....	0.3	Final (min.).....	230
Potassium Oxide.....	1.2	Air Content (%).....	8.2
Equivalent Alkalies.....	1.07	Autoclave Expansion (%)...	0.07
		Certified by:	
		<i>Jennifer K. Colburn</i>	
		Jennifer K. Colburn	

We hereby certify that this cement complies with current ASTM C 150, AASHTO M-85 and CSA-A5 Type 10 specifications.

This mill test report is generated for silos produced, sampled and tested in the calendar month prior to the date upon this report.



NewCem

LABORATORY TEST REPORT

To: _____

Carrier: _____

Date Shipped: _____

Loaded From: _____

CHEMICAL

Sulfide Sulfur (S), % 0.92

Sulfate Ion (as SO₃), % 0.13

PHYSICAL

Slag Activity Index, %:
 7 Day 100.8

28 Day 120.3

Fineness:

Blaine
 cm²/g 4,445

325 Sieve
 % retain 1.7

Air Content, %: 4.2

Compressive Strength: Mpa ; psi

7 Day 34.99 5,074

28 Day 48.67 7,059

Sample Identification

Voyage: Alexandra
27-04-1242

Date: 2-Oct-04

Terminal: Boston

This ground granulated blast furnace slag complies with the current specification of the chemical and physical requirements of ASTM C-989, AASHTO M-302; Grade 120 and ASTM C-595M, AASHTO M-240 Type IS, when blended with Portland cement, conforming to ASTM C-150, at the prescribed proportions. NewCem is guaranteed to meet all applicable FDOT, GADOT, NYDOT, SCDOT and VADH specifications.

Northeast Region
 Sparrows Point Plant
 2001 Wharf Rd. Baltimore, MD 21219
 Telephone: (410) 388-1177 x202

Thomas R. Griffiths
 Quality Control Manager

11/19/04
 Date

WINDHAM SCHOOL
 Mix: WKPDWINDHISC354 F'c: 3500 psi
 02/18/05

MIX DESCRIPTION
 =====

WKPDWINDHISC354 ----- 3500 psi ----- 0/ 0/ 0

Sample Date	Sample ID	Air Tmp deg F	Con Tmp deg F	Air Cont %	Slump in	7 day Comp psi	28 day Comp psi	Moving Avg: 3 28 day Comp psi
10/31/ 2	50	25	65	1.5	7.00	3430	5855	-
11/ 7/ 2	52	30	65	1.4	8.00	3080	4920	-
11/ 7/ 2	53	35	64	1.6	7.00	2970	4865	5213
11/14/ 2	54	50	70	1.5	6.50	3640	5340	5042
11/14/ 2	55	48	70	1.8	7.25	3570	5465	5223
11/25/ 2	57	32	72	1.6	7.00	3220	4810	5205
11/25/ 2	58	35	65	1.5	7.00	3220	4790	5022
11/25/ 2	59	40	65	1.7	7.75	3500	5525	5042
1/29/ 3	66	20	54	2.5	4.50	2790	4460	4925
1/31/ 3	67	11	53	2.5	6.00	2690	4770	4918

3/26/ 3	72	45	75	2.5	4.25	2940	4615	4615
3/27/ 3	73	37	63	1.8	6.25	2790	4105	4497
4/22/ 3	76	40	60	2.5	6.00	3180	4935	4552
4/22/ 3	77	40	60	1.8	5.00	3220	5235	4758
5/ 5/ 3	78	60	59	2.1	6.00	3290	4935	5035
5/ 8/ 3	79	50	56	2.0	6.00	2760	4380	4850
5/ 8/ 3	80	50	56	2.0	7.00	2650	4460	4592
5/13/ 3	81	60	61	2.1	6.50	3320	4810	4550
5/30/ 3	84	69	74	2.1	6.50	3090	4510	4593
5/30/ 3	85	79	71	2.6	7.00	3290	4425	4582

6/ 4/ 3	86	78	74	2.6	2.00	3680	4845	4593
6/ 5/ 3	87	62	69	2.3	4.00	4210	5160	4810
6/10/ 3	88	70	64	2.0	6.25	2970	4135	4713
6/10/ 3	89	64	70	1.8	5.75	3250	4260	4518
6/17/ 3	92	74	71	2.2	6.00	4170	4740	4378
6/17/ 3	93	74	71	2.8	6.00	3610	4755	4585
6/17/ 3	94	75	72	2.8	5.00	3360	4650	4715
6/19/ 3	95	68	66	2.1	6.00	3930	5160	4855
8/27/ 3	112	62	75	2.4	4.50	3040	4000	4603
9/ 3/ 3	114	70	66	7.1	7.50	2720	4175	4445

9/10/ 3	116	65	68	6.8	7.75	2690	4035	4070
9/11/ 3	117	70	79	5.9	7.25	3040	4260	4157
9/12/ 3	118	70	74	5.8	5.50	3040	4475	4257

Concrete Test Report Summary

Sample Date	Sample ID	Air Tmp deg F	Con Tmp deg F	Air Cont %	Slump in	7 day Comp psi	28 day Comp psi	Moving Avg: 3 28 day Comp psi
9/16/ 3	119	78	82	5.0	4.50	3220	4650	4462
9/17/ 3	121	74	76	5.5	3.50	2300	3645	4257
9/23/ 3	124	60	72	5.9	7.50	2760	3785	4027
9/25/ 3	125	65	74	2.6	5.50	2760	4140	3857
9/30/ 3	126	70	72	1.9	3.70	2860	3890	3938
10/ 3/ 3	144	47	63	1.8	5.50	2760	4245	4092
10/ 7/ 3	130	38	60	1.4	7.00	2790	4335	4157
1/21/ 4	159	10	60	2.1	3.50	3380	5145	4575
4/ 6/ 4	160	58	28	2.2	2.00	2950	4600	4693
5/11/ 4	162	50	61	2.5	4.00	2600	4480	4742
Count		43	43	43	43	43	43	41
Average		54	66	2.7	5.78	3133	4623	4603
Standard Deviation		19	9	1.5	1.50	415	485	352
Range		10	28	1.4	2.00	2300	3645	3857
Coefficient of Variation		79	82	7.1	8.00	4210	5855	5223
		34.78	13.70	56.75	25.87	13.24	10.50	7.64

USM MEDICAL CENTER
 Mix: WKUSMEDUC404110 F'c: 4000 psi
 02/18/05

MIX DESCRIPTION
 =====

WKUSMEDUC404110 ----- 4000 psi ----- 0/ 0/ 0

Sample Date	Sample ID	Air Tmp deg F	Con Tmp deg F	Air Cont %	Slump in	7 day Comp psi	28 day Comp psi	Moving Avg: 3 28 day Comp psi
3/22/ 4	45537	33	53	6.6	4.25	3470	4320	-
3/30/ 4	45720	33	67	5.3	4.50	3465	4895	-
4/ 6/ 4	45772	48	69	5.9	6.50	3010	4480	4565
4/ 9/ 4	45796	57	70	5.3	5.50	3240	4385	4587
4/16/ 4	45820	53	66	4.7	5.25	2980	4150	4338
4/29/ 4	45956	66	64	5.3	6.50	4005	5215	4583
5/ 3/ 4	46123	62	71	5.8	5.00	3250	4480	4615
5/21/ 4	46521	80	68	8.0	7.25	2640	4245	4647
5/27/ 4	46537	81	-	6.8	6.25	3820	4975	4567
6/ 9/ 4	46645	90	80	4.6	7.50	3060	4588	4603
6/21/ 4	47134	66	74	6.0	7.00	3550	5220	4928
7/23/ 4	47251	85	86	7.2	7.00	2330	4135	4648
8/10/ 4	47665	68	76	5.5	6.50	2890	4270	4542
8/16/ 4	47771	76	77	5.8	6.75	3840	5230	4545
8/25/ 4	48061	70	72	5.5	7.25	4030	5350	4950
8/25/ 4	48065	70	72	5.5	7.25	4910	6285	5622
8/26/ 4	48129	80	81	5.8	7.25	3920	4970	5535
9/ 3/ 4	48331	65	72	4.5	5.50	4640	6780	6012
9/15/ 4	48466	56	76	5.4	4.00	4220	4905	5552
11/ 3/ 4	49201	48	64	5.3	7.50	4190	5950	5878
Count		20	19	20	20	20	20	18
Average		64	71	5.7	6.23	3573	4941	4929
Standard Deviation		16	7	0.9	1.14	666	728	532
Range		33	53	4.5	4.00	2330	4135	4338
		90	86	8.0	7.50	4910	6780	6012
Coefficient of Variation		24.77	10.31	15.05	18.24	18.64	14.73	10.80

CONCRETE COMPRESSION TESTS



Project Name PORTLAND - YMCA ENTRY WAY - MATERIALS TESTING

Project Number 05-0169.1

Project Manager ROGER DOMINGO

Client YMCA SRO L.P.

Date 6/23/2005

YMCA SRO L.P.
DAVID THOMPSON
70 FOREST AVENUE
PORTLAND, ME 04101

Phone Number 207-874-1111

Results Being Reported

CONCRETE CYLINDER COMPRESSION TEST - ASTM C39/AASHTO T22

Copy To:

Remarks:

S. W. COLE ENGINEERING, INC.

BY: 

Roger E. Domingo



Report of Concrete Compressive Strength

ASTM C-31 & C-39

Project Name: PORTLAND - YMCA ENTRY WAY - MATERIALS TESTING Project Number: 05-0169.1

Client: YMCA SRO L.P.

Client Contract Number:

General Contractor:

Concrete Supplier: DRAGON PRODUCTS

PLACEMENT INFORMATION

Date Cast: 6/16/2005 Time Cast: 9:10 Date Received: 6/17/2005

Placement Location: FOOTINGS C1 THROUGH C4

Placement Method: TAILGATE

Placement Vol. (yd³): 13.5

Cylinders Made By: PJO

Aggregate Size (in): 3/4

INITIAL CURING CONDITIONS

Temperatures

Minimum (°F) Maximum (°F)

DELIVERY INFORMATION

Admixtures:

TEST RESULTS

Slump (in) (C-143): 3.0
 Air Content (%) (C-231): 4.9
 Air Temp (°F): 58
 Conc. Temp (°F) (C-1064): 64

Load Number: 1
 Mixer Number: 83
 Ticket Number: 4516015
 Cubic Yards: 7
 Design (psi): 4000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area (in) ²	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
499-2A		6.00	28.27	6/23/2005	Lab	7	5	107.5	3800
499-2B				7/14/2005	Lab	28			
499-2C				7/14/2005	Lab	28			
499-2D				Hold	Lab				

Fracture Types



Cone



Cone and Split



Cone and Shear



Shear



Columnar

Remarks:

Report of Concrete Compressive Strength

ASTM C-31 & C-39

Project Name: PORTLAND - YMCA ENTRY WAY - MATERIALS TESTING **Project Number:** 05-0169.1

Client: YMCA SRO L.P.

Client Contract Number:

General Contractor:

Concrete Supplier: DRAGON PRODUCTS

PLACEMENT INFORMATION

Date Cast: 6/14/2005 **Time Cast:** 10:30 **Date Received:** 6/15/2005

Placement Location: FOOTING C5 - C7, C4 - C5 BUILDING AND PLAZA FOOTING

Placement Method: TAILGATE

Placement Vol. (yd³): 10.5

Cylinders Made By: NRM

Aggregate Size (in): 3/4

INITIAL CURING CONDITIONS

Temperatures

Minimum (°F) **Maximum (°F)**

DELIVERY INFORMATION

Admixtures:

TEST RESULTS

Slump (in) (C-143): 3.5

Load Number: 1

Air Content (%) (C-231): 4.2

Mixer Number: 180

Air Temp (°F): 65

Ticket Number: 4516000

Conc. Temp (°F) (C-1064): 75

Cubic Yards: 10.5

Design (psi): 4000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area (in) ²	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
499-1A		6.00	28.27	6/21/2005	Lab	7	4	112.5	3980
499-1B				7/12/2005	Lab	28			
499-1C				7/12/2005	Lab	28			
499-1D				Hold	Lab				

Fracture Types



Cone



Cone and Split



Cone and Shear



Shear



Columnar

Remarks:

WELD CERTIFICATES



Wright-Ryan Construction Inc

Project: YMCA Entrance

Job No.: 0505

10 Danforth Street
Portland, ME 04101

Phone: 207-773-3625
Fax: 207-773-5173

PACKAGE NO: 05100S

REQUIRED START: 7/7/2005

SUBMITTAL NO. 05500-03

REQUIRED FINISH: 8/12/2005

TITLE: Metal Fabrications

DRAWING:

DAYS HELD: 0

STATUS: NEW

DAYS ELAPSED: 0

BIC: CURTWA

DAYS OVERDUE: 52

RECEIVED FROM

SENT TO

RETURNED BY

FORWARDED TO

MCBRAD GM

CURTWA BW

CURTWA BW

MCBRAD GM

Revision

Drawing/Test

No.	Description / Remarks	Received	Sent	Returned	Forwarded	Status	Sepias	Prints	Date	Held	Elapsed
001	Welder Certificates	10/3/2005	10/3/2005			NEW	0	0		0	0

SUBMITTAL REVIEW:

REVIEWED-NO EXCEPTION TAKEN REVISE AND RESUBMIT

NOTE MARKINGS REJECTED

Reviewed for general conformance with the design concept and contract documents. Markings or comments shall not be construed as relieving the Subcontractor from compliance with the project plans and specifications, nor departure therefrom. The Subcontractor remains responsible for details and accuracy, for conforming and correlating all quantities and dimensions, for selecting fabrication processes, for techniques of assembly, and for performing the work in a safe manner.

WRIGHT-RYAN CONSTRUCTION, INC.
 BY: TC DATE: 10/04/05

STRUCTURAL ENGINEERING SERVICES, INC.
 SIX Q STREET SOUTH PORTLAND, ME 04108
 (207) 767-4830

REVIEW IS RENDERED AS A COURTESY TO THE CONTRACTOR ONLY AND IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS. NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS.

NO EXCEPTIONS TAKEN REVISE & RESUBMIT

MAKE CORRECTIONS NOTED REJECT-RESUBMIT

BY: JBL DATE: 10/14/05



MAINTENANCE OF WELDER CERTIFICATON

\$10.00 FEE MUST ACCOMPANY THIS FORM

LAST NAME

J O Y

FIRST NAME

B R I A N

MI

P.

SOCIAL SECURITY #

0 0 6 7 6 4 6 5 2

CERTIFICATION #

0 4 0 9 0 3 6 W

Enter the date you most recently used the processes you would like to maintain.

IMPORTANT: FAILURE TO INCLUDE DATES BELOW WILL RESULT IN PAYMENT BEING FORFEITED.

SMAW 8/15/05 GMAW / / FCAW / /

GTAW / / Other / /

Your certification is extended from the dates you have indicated.

VERIFICATION Employer / Test Supervisor / Customer certify that the above named welder used
(Circle One)

the processes on the dates indicated. **IMPORTANT:** THIS FORM IS **NOT** TO BE SIGNED BY THE APPLICANT.

Print Name: James A. McBrady, Jr. Title: President

Company: James A. McBrady, Inc. Phone: () 207-883-4176

Signature: James A. McBrady Date: 8/5/05

Copy this form as needed.

If your address has changed, please list below:

YOUR CERTIFICATION IS IMPORTANT TO YOU AND TO US!

Use these forms before your expiration date to properly maintain your certification. Certifications in accordance with Supplement C or D9.1 for the Sheet Metal Welding Code require maintenance every 12 months. Certifications in accordance with D1.1 require maintenance every 6 months. Check the requirements of the standard that governs your certification to assure that maintenance is received by AWS at the proper intervals. The cost for renewal is \$10.00. All checks and money orders must be made payable to AWS and mailed to: P.O. Box 440367, Miami, FL 33144-0367.

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Method of Payment

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Credit Card #

Exp. Date

Signature _____



MAINTENANCE OF WELDER CERTIFICATION

\$10.00 FEE MUST ACCOMPANY THIS FORM

LAST NAME

MCKEEN

FIRST NAME

ROLAND

MI

A

SOCIAL SECURITY #

005421164

CERTIFICATION #

0409035W

Enter the date you most recently used the processes you would like to maintain.

IMPORTANT: FAILURE TO INCLUDE DATES BELOW WILL RESULT IN PAYMENT BEING FORFEITED.

SMAW 8/15/05 GMAW / / FCAW / /

GTAW / / Other / /

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the processes on the dates indicated. **IMPORTANT:** THIS FORM IS **NOT** TO BE SIGNED BY THE APPLICANT.

Print Name: James A. McGrady, Jr. Title: President

Company: James A. McGrady, Inc Phone: () 207-883-4176

Signature: James A. McGrady Date: 8/5/05

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Signature _____



MAINTENANCE OF WELDER CERTIFICATION

\$10.00 FEE MUST ACCOMPANY THIS FORM

LAST NAME

OLIVER

FIRST NAME

JAMES

MI

SOCIAL SECURITY #

007521307

CERTIFICATION #

0409034W

Enter the date you most recently used the processes you would like to maintain.

IMPORTANT: FAILURE TO INCLUDE DATES BELOW WILL RESULT IN PAYMENT BEING FORFEITED.

SMAW 8/15/05 GMAW ___/___/___ FCAW ___/___/___

GTAW ___/___/___ Other ___/___/___

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Print Name: James A. McBrady, Jr. Title: President

Company: James A. McBrady, Inc. Phone: (1) 207-883-4176

Signature: James A. McBrady Date: 8/5/05

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Credit Card #

Exp. Date

Signature _____



MAINTENANCE OF WELDER CERTIFICATION

\$10.00 FEE MUST ACCOMPANY THIS FORM

LAST NAME

W	I	L	S	O	N						
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 FIRST NAME

W	A	Y	N	E							
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 MI

A

SOCIAL SECURITY #

2	6	3	8	5	3	4	6	7
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 CERTIFICATION #

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 → There is no Certification Number on card

Enter the date you most recently used the processes you would like to maintain.
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SMAW 8/15/05 GMAW / / FCAW / /
 GTAW / / Other / /
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 Signature: [Signature] Date: 8/5/05
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Method of Payment																					
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<input type="checkbox"/> Diners	<input type="checkbox"/> Discover																				
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MAINTENANCE OF WELDER CERTIFICATION

\$10.00 FEE MUST ACCOMPANY THIS FORM

LAST NAME

Y A T T A W

FIRST NAME

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SOCIAL SECURITY #

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CERTIFICATION #

0 4 0 9 0 3 2 W

Enter the date you most recently used the processes you would like to maintain.

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SMAW 8/15/05

GMAW / /

FCAW / /

GTAW / /

Other / /

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MAINTENANCE OF WELDER CERTIFICATION

\$10.00 FEE MUST ACCOMPANY THIS FORM

LAST NAME

MCPHEE

FIRST NAME

ALAN

MI

R

SOCIAL SECURITY #

004449076

CERTIFICATION #

0909033W

Enter the date you most recently used the processes you would like to maintain.

IMPORTANT: FAILURE TO INCLUDE DATES BELOW WILL RESULT IN PAYMENT BEING FORFEITED.

SMAW 8/15/05 GMAW / / FCAW / /

GTAW / / Other / /

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Signature: James A. McBrady Date: 8/5/05

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