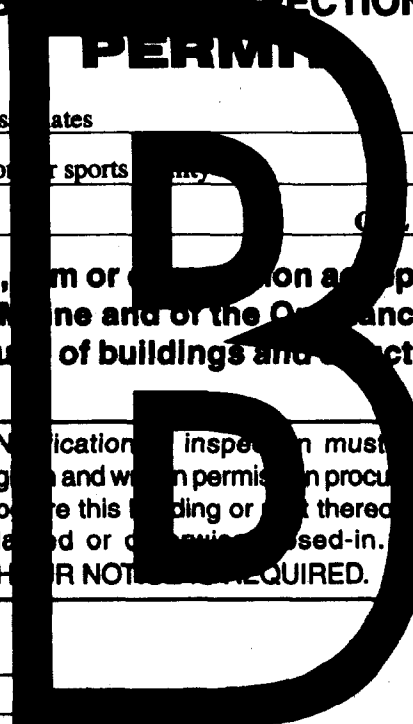


DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK CITY OF PORTLAND

BUILDING INSPECTION

Permit Number: 030882

Please Read Application And Notes, If Any, Attached



This is to certify that M T S Llc/Destefano and Associates
has permission to Construct ^{69,000} 53,500 s.f. addition for sports center
AT 530 312 Warren Ave City ID: 271 A002001

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 when permission is procured before this building or part thereof is started or occupancy is used-in. HOUR NOTICES ARE REQUIRED.

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

OTHER REQUIRED APPROVALS

Fire Dept. W.M.J.
Health Dept. _____
Appeal Board _____
Other _____
Department Name

[Signature]
Director - Building & Inspection Services

PENALTY FOR REMOVING THIS CARD

City of Portland, Maine - Building or Use Permit Application

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

Permit No: 03-0882	Issue Date:	CBL: 271 A002001
-----------------------	-------------	---------------------

Location of Construction: 512 Warren Ave	Owner Name: M T S Llc	Owner Address: 512 Warren Ave	Phone:
Business Name:	Contractor Name: Destefano and Associates	Contractor Address: 2456 Lafayette Rd Portsmouth	Phone 6034300339
Lessee/Buyer's Name	Phone:	Permit Type: Commercial	Zone: B-4

Past Use: Multi-use commercial	Proposed Use: Multi-use commercial with 33,500 ^{69,000} s.f. building addition: sports facility	Permit Fee: \$18,096.00	Cost of Work: \$2,000,000.00	CEO District: 1
		FIRE DEPT: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied	INSPECTION: Use Group: A3 Type: 2 9/14/03	

Proposed Project Description: Construct 33,500 ^{61,000} s.f. addition for sports facility	Signature: <i>[Handwritten Signature]</i>	Signature: <i>[Handwritten Signature]</i>
PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)		
Action: <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied		
Signature:		Date:

Permit Taken By: GG	Date Applied For: 07/23/2003	Zoning Approval	
------------------------	---------------------------------	------------------------	--

- This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.
- Building permits do not include plumbing, septic or electrical work.
- 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 <i>[Handwritten: N/A]</i> <input type="checkbox"/> Wetland <input type="checkbox"/> Flood Zone <i>[Handwritten: Panel 6 zone X]</i> <input type="checkbox"/> Subdivision <input checked="" type="checkbox"/> Site Plan <i>[Handwritten: # 2003-0066]</i> Maj <input checked="" type="checkbox"/> Minor <input type="checkbox"/> IMM <input type="checkbox"/> Denied Date: <i>[Handwritten: 07/31/03]</i>	Zoning Appeal <input type="checkbox"/> Variance <input type="checkbox"/> Miscellaneous <input 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:
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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

Applicant: Portland Sports Center

Date: 7/31/05

Address: 550 Warren Ave

C-B-L: 271-A-002

CHECK-LIST AGAINST ZONING ORDINANCE

Date - Addition to Jokers

Foundation permit # 03-0800

Regular construction permit # 03-0882

Zone Location - B-4

Interior or corner lot -

Proposed Use/Work - construct Indoor Sports Facility 69,000[#] as of 7/30/06

Sevage Disposal - City
connected to existing Jokers Bldg (28,864[#])

Lot Street Frontage - 60' min - 320' + shown

Front Yard - 20' min 105' scaled

Rear Yard - 20' min - 125' given

Side Yard - 10' min - 13' & 195' shown
1 or 2 stories

Projections -

Width of Lot - 60' min 200' + shown

Height - 65' MAX - 22' scaled

Lot Area - 10,000[#] min - 311,963[#] shown

Lot Coverage/Impervious Surface - 80% MAX - 76% shown $\frac{235,663}{311,963} = 76\%$

Area per Family - N/A

Off-street Parking - over 50,000[#] - parking was determined & approved by the Planning Board
274 + 9 handicap shown 7/22/03

Loading Bays - N/A

Site Plan - Major # 2003-0066

Shoreland Zoning/Stream Protection - N/A

Flood Plains - Panel 6 - Zone X

Floor Area Ratio = 65% MAX - 31% shown $\frac{98,235}{311,963} = 31\%$

Separate permits required for new signage

03-0882

All Purpose Building Permit Application

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

Location/Address of Construction: <u>512 Warren Ave</u>		
Total Square Footage of Proposed Structure <u>53,500</u>	Square Footage of Lot <u>31,963</u>	
Tax Assessor's Chart, Block & Lot Chart# <u>271</u> Block# <u>A</u> Lot# <u>002</u>	Owner: <u>MPS Portland Sports Center, LLC</u>	Telephone: <u>207-363-1305</u>
Lessee/Buyer's Name (if Applicable)	Applicant name, address & telephone: <u>DeStefano Associates 2456 Lafayette Rd Portsmouth, NH</u>	Cost Of Work: \$ <u>2,000,000</u> Fee: \$ <u>18,021.00</u>
Current use: <u>A-3 multi-use commercial</u>	<u>03801 603-430-0339</u>	<u>+75.00 C&O</u>
If the location is currently vacant, what was prior use:		<u>\$ 18,096.00</u>
Approximately how long has it been vacant:		<u>#03-0800's foundation permit</u>
Proposed use: <u>A-3 multi-use commercial w/ added bldg</u>	Project description: <u>Indoor Sports Facility & Support Facilities</u>	
Contractor's name, address & telephone: <u>DeStefano & Associates Inc. 2456 Lafayette Rd Portsmouth, NH 03801</u>		
Who should we contact when the permit is ready: <u>Contractor</u>		<u>603-430-0339</u>
Mailing address: <u>Same</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: <u>6034300339</u>		

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.

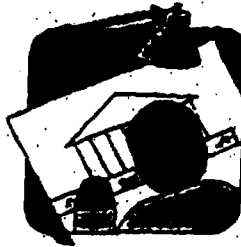
I hereby certify that I am the Owner of record of the named property, or that the owner of record authorizes the proposed work and that I have been authorized by the owner to make this application as his/her authorized agent. I agree to conform to all applicable laws of this jurisdiction. In addition, 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: <u>Jak P. DeStefano</u>	Date: <u>7/23/03</u>
---	----------------------

DEPT. OF BUILDING INSPECTION
CITY OF PORTLAND, ME

JUL 23 2003

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



CITY OF PORTLAND MAINE

389 Congress St., Rm 315

Portland, ME 04101

Tel. - 207-874-8704

Fax - 207-874-8716

TO: Inspector of Buildings City of Portland, Maine
Planning & Urban Development
Division of Housing & Community Services

FROM DESIGNER: CWS Architects - Benedict B. Walter

DATE: 07/22/03

Job Name: Portland Sports Center at Jokers

Address of Construction: 512 Warden Ave.

THE BOCA NATIONAL BUILDING CODE/1999 Fourteenth EDITION

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

Building Code and Year 1999 Boca Use Group Classification(s) Assembly A III
 Type of Construction TYPE II C Bldg. Height 34 +/- Bldg. Sq. Footage 63,240 SF Addition
 Seismic Zone Exp Group I Group Class Category C
 Roof Snow Load Per Sq. Ft. 42 Dead Load Per Sq. Ft. 14
 Basic Wind Speed (mph) 85 Effective Velocity Pressure Per Sq. Ft. 21 PCF
 Floor Live Load Per Sq. Ft. 100 PSF

Structure has full sprinkler system? Yes XXX No Alarm System? Yes XXX No
Sprinkler & Alarm systems must be installed according to BOCA and NFPA Standards with approval from the Portland Fire Department.

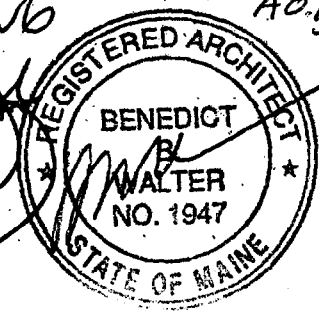
Is structure being considered unlimited area building: Yes X No
Separated Use Groups

If mixed use, what subsection of 313 is being considered

List Occupant loading for each room or space, designed into this Project. (SEE CODE SUMMARY DRAWING A0.1)
Rubb Field Sports 2000 Occupants
Sports Lounge 150 Occupants
Program Room 30 Occupants

PSH 6/07/2K

AS PER PLANNING
APPROVAL
(Designers Stamp & Seal)





**CITY OF PORTLAND
ACCESSIBILITY CERTIFICATE**

Designer: CWS Architects - Benedict B. Walter

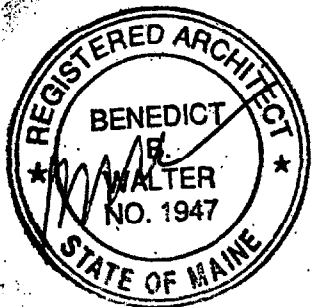
Address of Project 512 Warden Ave.

Nature of Project New Construction

Date 07/22/03

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

(SEAL)



Signature *B. Walter*

Vice-President

Title

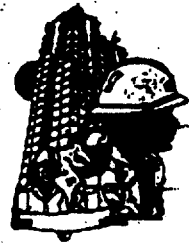
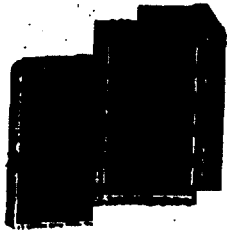
CWS Architects

Firm

Address 434 Cumberland Ave.

Portland, ME 04101

Telephone 207-774-4441



**CITY OF PORTLAND
BUILDING CODE CERTIFICATE**
389 Congress St., Rm 315
Portland, ME 04101

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

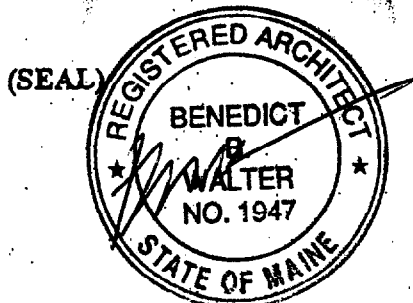
FROM: CWS Architects - Benedict B. Walter

RE: Certificate of Design

DATE: 07/22/03

These plans and/or specifications covering construction work on:
Portland Sports Center Addition at Jokers

Have been designed and drawn up by the undersigned, a Maine registered architect/engineer according to the BOCA National Building Code/1999 Fourteenth Edition, and local amendments.



Signature B. Walter

Title Vice-President

Firm CWS Architects

Address 434 Cumberland Ave.
Portland, ME 04101

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.

Statement of Special Inspections

Project: Portland Sports Center at Jokers –
Foundations and Service Wing Structure

Location: Warren Avenue; Portland, Maine

Architect: Ben Walter, AIA
CWS Architects
434 Cumberland Avenue
Portland, ME 04101

Structural Engineer of Record: David A. Price, P.E.
Price Structural Engineers, Inc.
75 Farms Edge Road
North Yarmouth, ME 04097

This *Statement of Special Inspections* is submitted as a condition for permit issuance in accordance with the Special Inspection requirements of the Building Code. It includes a Schedule of Special Inspection Services applicable to this project as well as the name of the Special Inspector and the identity of other approved agencies intended to be retained for conducting these inspections. This statement includes the necessary inspections for the entire foundation and the service wing but does not include special inspections for the pre-engineered Rubb Building which will be provided by others.

The Special Inspector will keep inspection records provided by the approved agencies. Discrepancies discovered by the approved agencies will be brought to the immediate attention of the Contractor for correction. If such discrepancies are not corrected, the discrepancies will be brought to the attention of the Building Official, Structural Engineer of Record, and Architect. The Special Inspection program does not relieve the Contractor of his or her responsibilities.

When requested, interim reports will be submitted to the Building Code Official, Owner, Structural Engineer of Record, and Architect of Record.

Job site safety and means and methods of construction are solely the responsibility of the Contractor.

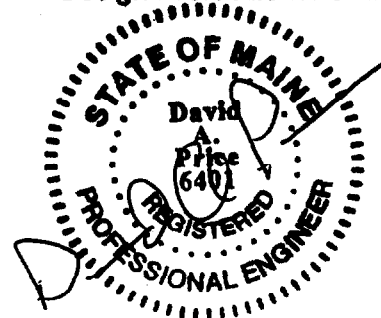
Prepared by: David A. Price, P.E.

David A. Price 7/18/03
Signature Date

Building Official's Acceptance:

[Signature] 9/4/03
Signature Date

Design Professional Seal



SCHEDULE OF SPECIAL INSPECTIONS
Portland Sports Center at Jokers
 Portland, Maine

Note to Inspectors: All discrepancies shall be brought to the immediate attention of the Contractor and the Special Inspector for correction. If not corrected, discrepancies shall be brought to the attention of the Architect and the Building Official.

- I. **Special Inspector:** Price Structural Engineers, Inc.
- II. **Structural Fill Testing Laboratory:** R.W. Gillespie & Associates, Inc.
- III. **Concrete Testing Laboratory:** R.W. Gillespie & Associates, Inc.
- IV. **Structural Steel Testing Laboratory:** Quality Assurance Laboratory, Inc.

<u>Item</u>	<u>Inspector Number</u>	<u>Scope</u>
Structural Fill: Controlled Structural Fill	II	Observe compacted fill operations to document that fill material, lift thickness, and level of compaction are in conformance with the requirements of the construction documents and the recommendations of the geotechnical engineer.
	II	Perform in-place density (compaction) tests at interval of one test per 2500 square feet per lift within slab areas and one test per 50 lineal feet of foundation backfill per lift. At least one laboratory grain size analysis and modified Proctor test will be performed on each fill type used.
Shallow Foundations	II	Observe that subbase below spread footings and wall strip footings is acceptable and consistent with recommendations of geotechnical engineer.
Piles	II	Observe pile installation and review pile records prepared by pile contractor. Detailed pile records to include pile number, tip elevation, cut off elevation, splice elevation, length, blows per foot during driving, blows per inch for final set, measurements for heave at completion of each

<p>Piles (continued)</p>		<p>pile cap, and notes regarding plumbness during driving and deviation from horizontal location. Pile records shall also include hammer information and stroke during final set. Verify final set criteria are consistent with that developed by geotechnical engineer.</p> <p>I Welders shall submit photocopy of AWS certification to the Special Inspector indicating that it is current.</p> <p>IV The tension splice for at least one location shall be tested by an independent certified welding inspector (test method at the discretion of the welding inspector). Field welds shall be inspected by a certified welding inspector.</p>
<p>Cast in Place Concrete:</p> <p>Concrete Mix Design & Steel Reinf. Shop Drawings</p>	<p>I</p>	<p>Review for compliance with construction documents.</p>
<p>Material Certification</p>	<p>I</p>	<p>Review for compliance with construction documents.</p>
<p>Reinforcement Installation</p>	<p>III</p> <p>III</p>	<p>Review the installation of the reinforcing steel for compliance with construction documents and the approved shop drawings. Field measure bar diameters and bar spacing at 100% of pile caps, grade beams, piers, and spread footings. Field measure bar diameter and bar spacing at 15% of concrete at other areas at random locations.</p> <p>Random review of construction procedures.</p>
<p>Formwork Geometry</p>	<p>III</p>	<p>Provide comment of formwork dimensions when reviewing steel reinforcement installation.</p>
<p>Concrete Placement</p>	<p>III</p>	<p>Random review of construction procedures.</p>
<p>Evaluation of Concrete Strength</p>	<p>III</p>	<p>Obtain one set of four standard cylinders for each compressive strength test. See project specifications for additional requirements.</p>

Curing and Protection	III	Provide comment on curing and protection methods being used at the job site, particularly during hot and cold weather conditions.
Structural Steel: Structural Steel Shop Drawings	I	Review for compliance with construction documents.
Steel Fabrication Quality Control	I	Steel fabricator to provide certificate indicating it is currently a member of Structural Steel Fabricators of New England.
	I	Review mill certificates for plates and shapes. Review bolt manufacturer's certificate for compliance of high strength bolts.
	IV	Review steel fabricator's written quality control procedures.
Bolts	IV	At 10% of bolts (at random locations), field verify that bolt material, quantity, diameter, and spacing conform with the structural drawings and approved shop drawings. Provide additional inspection at more bolts if any of the bolts are found not to conform.
	IV	At 100% of bolts, field verify that the tip of the "TC" bolts has been twisted off indicating that the bolt has been fully pretensioned.
Field welding	I	Erector to provide certificates indicating that those performing field welding have an AWS certificate that is current.
	IV	All field welds for bracing shall be visually inspected by a certified welding inspector to be sure that welding is performed in accordance with AWS D1.1
	IV	Perform visual inspection of 5% of the welds at roof decking (random locations) to verify conformance with the construction documents. Provide additional inspection at more welds if any of the welds are found not to conform.

Structural Details	IV	Provide comment that structural steel member sizes, locations, and connections appear to be in general conformance with the structural drawings and approved shop drawings.
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We Govern The World.®



RUBB, INC.
P.O. Box 711, 1 Rubb Lane
Sanford, Maine 04073 USA
Tel: 207 324 2877
Fax: 207 324 2347
E-mail: info@rubbusa.com

July 16, 2003

Mr. John P. DeStefano, PE
DeStefano & Associates, Inc.
2456 Lafayette Road
Portsmouth, NH 03801

By Telefax: 603-430-0346

Re: Special Inspection, 1999 BOCA Code, Section 1705
Rubb Job #03062, 177' wide x 250' 3" long Structure at Jokers in Portland, Maine

Dear John:

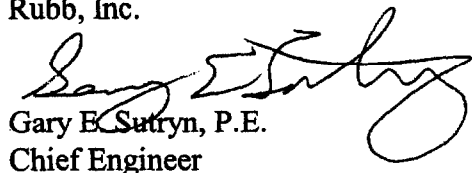
Rubb, Inc. is certified to ISO 9001. We have an in-house quality assurance program that is reviewed biannually by SGS U.S. testing out of New Jersey for compliance to ISO 9001 standards.

All of our welders are certified to AWS D1.1. We have our own qualified personnel doing the weld inspections.

All high strength structural bolts (A325) requiring full pre-tensioning are indicated on the drawings. These bolts are tightened by our site personnel using the turn-of-the-nut method as specified in the American Institute of Steel Construction Manual - 9th Edition, Allowable Stress Design.

If you have any questions on the above please contact me at 1-800-289-7822.

Sincerely,
Rubb, Inc.


Gary E. Sutryn, P.E.
Chief Engineer

DAVID PA 15L.

J:\GARY\DeStefano, John 7-15-03.lwp



AN INTERNATIONAL COMPANY

RUBB BUILDINGS LTD.
Tel: +44 191 482 2211
Fax: +44 191 482 2516

RUBB MOTOR A/S
Tel: +47 55 315032
Fax: +47 55 317510



Certificate No. US97/0897



CURTIS WALTER STEWART
A r c h i t e c t s

434 Cumberland Avenue
Portland ME 04101-2325

Benedict B. Walter, Vice President

Phone: 207.774.4441
Fax: 207.774.4016
E-mail: BWalter@CWSarch.com

July 2, 2003

Mike Nugent
Building Inspector
City of Portland
389 Congress Street
Portland, ME 04101

Re: Portland Sports Center
An addition to Joker's - 512 Warren Ave.

Dear Mike,

This letter includes a summary of the direction we are pursuing with our BOCA code review for this project. As per our previous conversation, we expect you will need some time to review it and, if necessary, confer with BOCA regarding some of the aspects of this building addition. Therefore, we are submitting this in advance of the final detailed plans.

Also, we have recently been to meet with the State Fire Marshal to review the current direction of plans and they are on-board with the concept. They indicated that the existing Joker's occupancy is unlimited but, in order to control crowds, they choose to limit occupancy to approximately 650-750 guests during special events.

The owners of the new Portland Sports Center are preparing an agreement to limit occupancy for the space inside the RUBB building. ~~They are currently discussing an occupancy of 2,000 people for this space.~~ This occupancy load will primarily effect the egress capacity of the exiting components.

Building Use History of the Site (from your previous email)

- Grossman's Lumber – Constructed in early 1965 +/-
- 1997 The addition of 13,000 SF and use change from retail to A-2, type 2C construction. (I'm not sure why it was classified as A-2, it seems A-3 is most appropriate for the actual use)
- 2001 The Laser Tag area was permit (Sam approved it) as an A-3 type 3A construction?
- 2003 The owners of Joker's is currently pursuing (under separate application) the conversion of a space below the Laser Tag Mezzanine (type 3A) into a Day Care Occupancy (E – Education Use)

NOT ALLOWED BY THIS PERMIT

Mike Nugent

July 2, 2003

Portland Sports Center - An addition to Joker's - 512 Warren Ave.

Page 2 of 3

Current Proposal (addition of Portland Sports Center)

Under a condominium arrangement, Portland Sports Center is proposing to construct a 65,485 SF addition, to be built in two-phases, directly connected to the existing 28,864 SF Joker's building for a resulting 94,349 SF (footprint) facility.

The total building occupancy, including the existing Joker's facility, will be approximately 2,250 people. With the exception of the Day Care Facility, the entire facility will be re-classified as an A-3 Assembly (I'm not sure where the A-2 came from in the 1997 permit).

The building's construction type will be primarily Type 2C (unprotected non-combustible), the exception being two (2) small mezzanines (738 and 3,554 SF respectively) that are built of Type 3A (noncombustible/combustible protected) construction. The RUBB building that will enclose the indoor athletic fields of the Portland Sports Center is classified as Type 2C (unprotected non-combustible) as per Section 3103.0 MEMBRANE STRUCTURES.

The facility will be fully sprinkled in accordance with NFPA 13.

The RUBB buildings average roof height of 36'-11" is well within the 50' allowed for Type 2C (noncombustible/unprotected) modified as per 504.2 Automatic Sprinkler Systems.

As an A-3 occupancy of one-story and less than 85 feet in height, the building is proposed to have unlimited area as per **SECTION 507.0 UNLIMITED AREAS**. To qualify, the structure as proposed meets **Section 507.2 Exterior Walls** with a Fire Resistance Rating of 0 hours based on a fire separation distance of 50 feet or greater. The Day Care use (Use Group E) is permitted in accordance with **507.1.1 School Buildings**, as a direct exit is being provided for this use.

A 1-Hour fire separation assembly will be provided between the A-3 Assembly and E - Educational uses in accordance with **313.1.2 Separated Use Groups** with the automatic sprinkler system exception.

While both the existing Joker's Facility and the new Portland Sports Center will have SEPARATE main entrances, occupants will be able to pass freely from one business to the other during most business hours. During some business hours, one or the other business will be closed and the other business will operate independently. Emergency egress (with a DETEX alarm system) will be provided through the Sports Lounge in these cases. Otherwise, the existing functionality of the Joker's facility will remain as it currently operates.

The existing Joker's facility and the proposed Portland Sports Center will be fully handicapped accessible.

Mike Nugent

July 2, 2003

Portland Sports Center - An addition to Joker's - 512 Warren Ave.

Page 3 of 3

Due to subsurface Geotechnical conditions, the owner will be constructing this facility in two phases. The first phase, which will be built mostly on steel piles, will consist of the RUBB building and infill Sports lounge and program rooms. Phase two will primarily support the main Portland Sports Center entrance and a future use by Frozen Ropes, a baseball training facility and is being delayed due to the long time required to pre-load that portion of the site.

To accommodate the construction of phase one without the future main entrance, a temporary "main entrance" will be provided via the installation of a modular building to support this use. This entrance will be temporarily installed to accommodate handicapped access to the building and include some small office spaces.

Summary

We believe you will find this Code Summary acceptable for the construction of the building as presented. As I noted, the Type 3A construction of the two internal mezzanines (exterior walls are non-combustible as part of the original building frame), which was previously thought might be Type 5A construction, seems to be allowed by Section 507.0 Unlimited Areas. Please confirm.

Please call if you would like to review this further in person or on the telephone.

Very truly yours,

CURTIS WALTER STEWART ARCHITECTS



Benedict B. Walter, Architect
Vice President

cc: John DeStefano, DeStefano & Associates
Kevin Barrett, Portland Sports Center
Jim Gratello, Joker's
Bill Latvis, Joker's
Peter Biegel, SYTDesign Consultants

8/20/03

To: Mike Nugent

Fr: John DeStefano

Re: Portland Sports Center

① Planning should be signing off on Wednesday P.M. 8/20. All documents, etc. are in.

② I am addressing your memo of 8/18/03

- Attached is the memo from Price Structural.

③ Can we discuss your concerns about

item 2 - Bleachers

item 6 - Finish

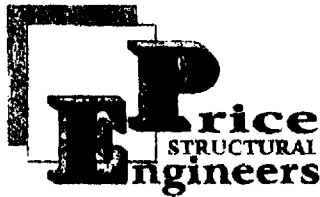
- We are using artificial grass and concrete

④ Tammy was faxed a memo regarding certification of building location.

(5) I am following up with Rick
McCarthy for his paperwork

(6) Our latest schedule is to
start erecting steel next
week. No earlier than 8/27.

Thanks,
John.



75 Farms Edge Road
North Yarmouth, ME 04097
Tel: 207-846-0099
Fax: 207-846-1633
E-Mail: PriceEngrs@aol.com

FAX COVER SHEET

ATTN: John DeStefano
Company: DeStefano & Assoc
From: D. Price

Date: 8/19/03
Fax No.: (603) 430-0346
PSE Project No.: 108-03

Project: Sports Center @ Jokers
Subject: Response to Mike Nugent's structural questions
Page 1 of: 2 Additional copy sent by: _____ US Mail

Copy: Ben Walker
774-4016

- _____ Overnight Mail
- _____ Hand Delivery
- _____ E-mail
- X Fax Only

Message:

Rubb must provide responses for Rubb building.
For Service Wing Building (Grids N-Z):
3) Main Windforce Resisting System =
a) Windward Wall = 13.0 psf
b) Leeward Wall = 9.0 psf
4) Basic Structural System = Concentric Braces
& Ordinary Moment Frame of Steel
5) Response Modification Factor = 4.5
Deflection Amplification Factor = 4.0

Note: The Service wing Building is
isolated by isolation joints from
both the Rubb Building and the
Existing Jokers Building and is
therefore designed as a separate building
with regard to wind & seismic design.



BENNETT ENGINEERING

CONSULTING ENGINEERS

**Bennett Road, P.O. Box 297, Freeport, Maine 04032
Tel - (207) 865-9475
Fax - (207) 865-1800
Email - office@bennettengineering.net**

Facsimile Cover Sheet

**Date/ Time: 8/19/03 / 1:07 PM
Number of Pages: 1
Company: DeStefano & Associates
Fax Number: 603-430-0346
Attention: John DeStefano
From: Will Bennett
Subject: Portland Sports Center
Comments:**

The design calculations were performed for two heating/ventilating units capable of supplying a total of 11,000 cfm of tempered outside air at low ambient temperatures. This amount complies with BOCA 1993 for a maximum space occupancy of 730 people with 15 CFM/person. Under normal day-to-day operation the occupancy will be far less than 730 people. There is no occupancy listed in BOCA 1993 for a "Indoor Soccer Field".

For events with occupancies exceeding 730 people the system can introduce larger amounts of outside air into the space but under low ambient conditions a greater heating capacity will be required to maintain space temperature.

**DESTEFANO
& ASSOCIATES, INC.**

PLANNING
DESIGN
CONSTRUCTION

2456 LAFAYETTE ROAD, PORTSMOUTH, NH 03801

Telephone: (603) 430-0339 Fax: (603) 430-0346

E-Mail: destefano@prexar.com Web Site: www.destefano-associates.com

Fax

To: Mike Nugent From: John Destefano
Fax: 2078748716 Pages: 2
Re: _____ Date: 8/21
Project: PSC CC: _____

Urgent For Review Please Comment Please Reply Please Recycle

• Comments:

Response To 8/18/03 Memo.

- ① Refer to Bennett Engineering Memo Dated 8/19
- ② The Bleachers are 3 Freer Portable Purchased by the Owner. Cuts to follow.
- ③ The response from Price were provided.
- ④ The response from Rubin is below.
- ⑤
 - 3. $BVP = 20.7 \text{ psf}$
 - 4. Moment Resisting Frame System, Ordinary Moment Frames of Steel
 - 5. $R = 4\frac{1}{2}$ $Cd = 4$

COMMERCIAL - INDUSTRIAL - INSTITUTIONAL

HEALTH CARE - SPORTS - MULTI-FAMILY HOUSING

⑥ Interior Finish Cuts to follow.

CLARIFICATION OF PARKING ANALYSIS CHART

THE PARKING ANALYSIS DETAILS THE PARKING REQUIREMENTS FOR ALL TIMES AND TYPES OF EVENTS AT THE HIGHEST TRAFFIC LEVELS IN ORDER TO PROVIDE A THOROUGH ANALYSIS.

COLUMN	EXPLANATION
1.&2.	<p>The following businesses will be occupying the site at 512 Warren Ave.:</p> <p>Joker's- An indoor family entertainment center with games, food, jungle gym, rides, lazer tag, slide, bounce, etc. It also includes an outdoor championship level miniature golf. Joker's has been in existence since 1996.</p> <p>Sports Center- A full size indoor artificial turf field that will be used for all types of team-oriented field sports such as soccer, lacrosse, etc.</p> <p>Batting Cages- Six batting cages will be installed for baseball training and practice.</p> <p>Additional space for storage, food court, and offices will also be provided..</p>
3.	Parking ratio formula requirements for each of the occupants
4.	<p>The square foot space that each occupant represents:</p> <p>Joker's = 37,295 sf (including golf)</p> <p>Sports Center = 59,850 sf (including fields, office, viewing, storage, etc.)</p> <p>Batting Cages = 9,700 sf</p>
5.	The parking spaces required for each occupant
6.	<p>The number of participants:</p> <p>a. Sports Center- There will be two fields of play. Each field would allow two team per field. This assumes eight teams because four teams will be arriving when four teams are leaving. This also assumes one person per car even though most cars carry several players. This also includes spectators.</p>
7.	This represents the total spaces for field play and events.
8.	This represents spaces required during the day which is the slowest time during the week.

9. This represents spaces required at night because traffic increases at night
 10. This represents the spaces required on Friday evening when traffic is heavier due to a pizza buffet and karaoke held at Joker's every Friday night.
 11. This represents spaces required on Saturday and Sunday during the day
 12. This represents spaces required on Saturday and Sunday night.
 13. This represents the spaces required for the busiest day during school vacations twice per year.
 14. This represents the spaces required for any special events.
-

PORTLAND SPORTS CENTER
 PORTLAND, MAINE
 PARKING ANALYSIS PER ZONING

5/27/2003

FACILITY	USE	PARKING RATIO FORMULA	FLOOR AREA (SF)	TOTAL SPACES	PARTICIPANTS	SPECTATORS	TOTAL CARS	DAYTIME (8AM-5PM) M-F	NIGHTTIME (5PM-10PM) M-TH	FRIDAY	WEEKEND DAY (8AM-5PM) F,S,S	WEEKEND NIGHT (5PM-10PM) S,S	SCHOOL VACATIONS	SPORTING EVENT
JOKERS	REGULAR	1/200 SF	28700	134				20	30	110	150	75	150	150
MINI GOLF		INCL	8595	INCL				INCL	INCL	INCL	INCL	INCL	INCL	INCL
SPORTS CENTER	TEAM PLAY	EXPERIENCE-30/FIELD+REF	3 FIELDS	93	93	90	93	20	93	93	93	93	20	
	OFFICE/RECEPTION	1/200	4200	21				4	4	4	4	4	4	4
	EVENTS	1/5 SEATS OR 1/100 SF	46250		30	400	110							110
BATTING		EXPERIENCE- 6 cages+ EMP	9700	14				14	14	14	14	14	14	14
SUPPORT	BR, LR, STORAGE, VIEWING		9400											
TOTAL			106845	262				58	141	221	261	186	188	278
	OTHER ACCOMMODATIONS	10 HDPC REQUIRED + BUS		INCL										
AVAILABLE	JOKERS							274	274	274	274	274	274	274
	EJ PRESCOTT									50	50	50	50	50
TOTAL								274	274	324	324	324	324	324

**DESTEFANO
& ASSOCIATES, INC.**

PLANNING
DESIGN
CONSTRUCTION

2456 LAFAYETTE ROAD, PORTSMOUTH, NH 03801

Telephone: (603) 430-0339 Fax: (603) 430-0346

E-Mail: destefano@prexar.com Web Site: www.destefano-associates.com

Fax

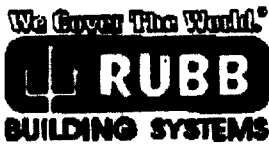
To: Mike Nugent From: John D
Fax: 207874-8716 Pages: 3
Re: NFPA Test. Date: 8/15/03
Project: PSC CC:

Urgent For Review Please Comment Please Reply Please Recycle

• Comments:

*Attached is the certification as requested.
Please advise if you need anything else.*

COMMERCIAL - INDUSTRIAL - INSTITUTIONAL
HEALTH CARE - SPORTS - MULTI-FAMILY HOUSING



RUBB, INC.
P.O. Box 711, 1 Rubb Lane
Sanford, Maine 04073 USA
Tel: 207 324 2877
Fax: 207 324 2347
E-mail: info@rubbusa.com

August 15, 2003

Mr. John P. DeStefano, PE
DeStefano & Associates, Inc.
2456 Lafayette Road
Portsmouth, NH 03801

By Telefax: 603-430-0346

Re: Portland Sports - Flame Test Requirement

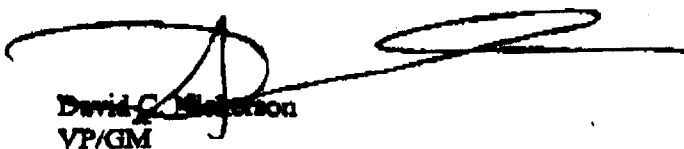
Dear John,

It is my understanding that Mike Nugent asked for updated NFPA 701 fabric test data on the Seaman 8028 fabric we will use for Portland Sports. Enclosed is a copy of testing to the 1996 Edition of NFPA 701 which Seaman faxed to us today.

Note that fire performance is independent of top finish and that Seaman is a government certified laboratory with QLL No: 16838.

Finally, you can tell Mike that this is the same fabric used on the roof of the Merrill Structure. Let us know if anything further is required.

Sincerely
Rubb, Inc.


David C. Peterson
VP/GM

enc.

cc: Gary Sutryn



RUBB BUILDINGS LTD.
Tel: +44 1473 422 2877
Fax: +44 1273 422 2818

RUBB MOTOR A/S
Tel: +47 66 21202
Fax: +47 66 517510



AUG 15 2003 3:12PM

SEAMAN CORP CUST SVC

KUBB, INC

PAGE 02/02

NO. 4356 P. 2

REPORT



INDUSTRIAL FABRIC DIVISION
Research and Development Dept.
1000 Venture Blvd., Wooster, OH 44691
Phone 330/242-1111

REPORT OF TEST

REPORT NO: W29090
DATE: 8/1/86

QLL NO: 16636

SAMPLE IDENTIFICATION: 6028 FRLTC DC6 White TS116/117 Top Finish

TEST PERFORMED: NFPA 701 Standard Methods of Fire Tests for Flame-Resistant Textiles and Films 1986 Edition, Large Scale Test

TEST RESULTS:

	After Flame (seconds)		Char Length (inches)	
	Warp	Fil	Warp	Fil
	0	0	2.75	4.0
	0	0	3.0	2.75
	0	0	4.0	5.25
Average	0	0	3.25	4.0

REMARKS: None

CONCLUSION: Based on the test results and acceptance criteria, the sample tested was found to meet the requirements of the NFPA 701 1986 Edition, Large Scale Test

Signed for the Company by:

Sue Uhler
NPD Lab Supervisor
SEAMAN CORPORATION



Kandi Talbot
Department of Planning and Development
389 Congress St
Portland, ME 04101

Re: General Impact Statement – Portland Sports Center

Kandi,

In reference to your request for a general impact statement relative to the operation of the Portland Sports center, I have listed a general description of the facility with potential areas of impact below.

- ✓ The primary facility, located at 512 Warren Ave, will include:
 - ✓ A 177' x 250' RUBB building covering an indoor synthetic turf sports field utilizing state of the art Field Turf
 - ✓ Concession/Vending area
 - ✓ Frozen Ropes Batting cage area
- ✓ Primary operating season will be from November – May with limited usage during the off-season, June – October to include indoor day camps and training clinics.
- ✓ Primary activities will include Soccer, Lacrosse, Field Hockey, Rugby, Ultimate Frisbee, Baseball and Softball leagues as well as hourly rentals by local recreation departments, schools, and sports organizations.
- ✓ Expected traffic flow at **maximum** capacity would be approximately 48 cars/hour on average for an 8 hour operating day. Typical operations would be primarily 4:00pm – 11:00pm during the week and 7:00am – 11:00pm on the weekends.
- ✓ Parking/traffic flow estimates are based on maximum average programming capacity of 4 teams on the field per hour with 12 players on each team. Assuming each player arrives in their own vehicle, the maximum traffic count would be 48 vehicles. There would be some overlap during field changes, which would create the potential for a maximum of 96 vehicles on the hour.
- ✓ Current site plan design allows for 274 total parking spaces including handicap parking with off site (E.J. Prescott) available.

tel 207.633.1300

fax 207.333.1300

PO Box 177

1000 US Road

Portland, ME 04101

BUILDING
SOLUTIONS
FOR INDOOR
ATHLETICS

6/2/03

www.sportsplexmanagement.com

The project will be a significant benefit to the residents of Greater Portland and the surrounding communities. It will provide a service to the community offering programs for youth and adult participants as well as generate significant tax revenue. The overall impact to the community will be minimal as noted above. The surrounding properties will also recognize limited impact, as the primary hours of operation will be during essentially off times of the day and season.

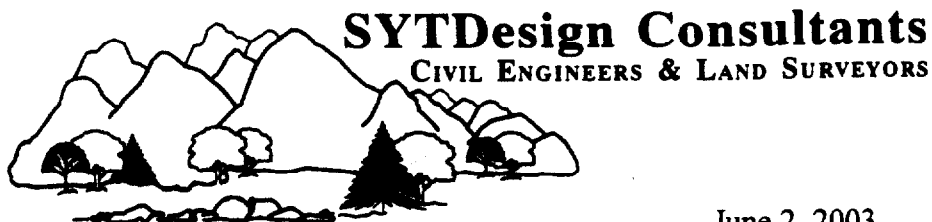
If you have any questions or need additional information, please feel free to contact me.

Regards,

A handwritten signature in black ink, appearing to read 'Kevin Barrett', with a long horizontal flourish extending to the right.

Kevin Barrett
Managing Director
Portland Sports Center, LLC

6/2/03



PRINCIPALS:

Saucier, Thomas W., P.E.
Young, David W., P.E., P.L.S.
Tubbs, Peter B., P.E., P.L.S.
Decker, W. Scott, P.E.

June 2, 2003

Ms. Kandi Talbot
Department of Planning and Development
389 Congress Street
Portland, ME 04101

RE: Portland Sports Center – Construction Schedule

Dear Kandi:

Upon review of the geotechnical soils report we have to make several adjustments. The soils under buildings #1 and #4 (see attached diagram – construction sequence) are very loose. In order to balance the cost of foundation support with the time required for opening we propose the following construction sequence. Begin construction on the building portion of the project labeled #1, 2, 3 and parking area 5 & 6. We would plan on completing this work and having the completed building portions open for operation by the end of October/beginning of November 2003. Parking area #6 would be completed and paved while parking area #5, which sits on poor soils, would remain gravel. Building area #4 would be preloaded and allowed to sit for approximately one year or until the soils are stabilized and then this portion of the structure would be completed at which time parking area #5 would also be paved.

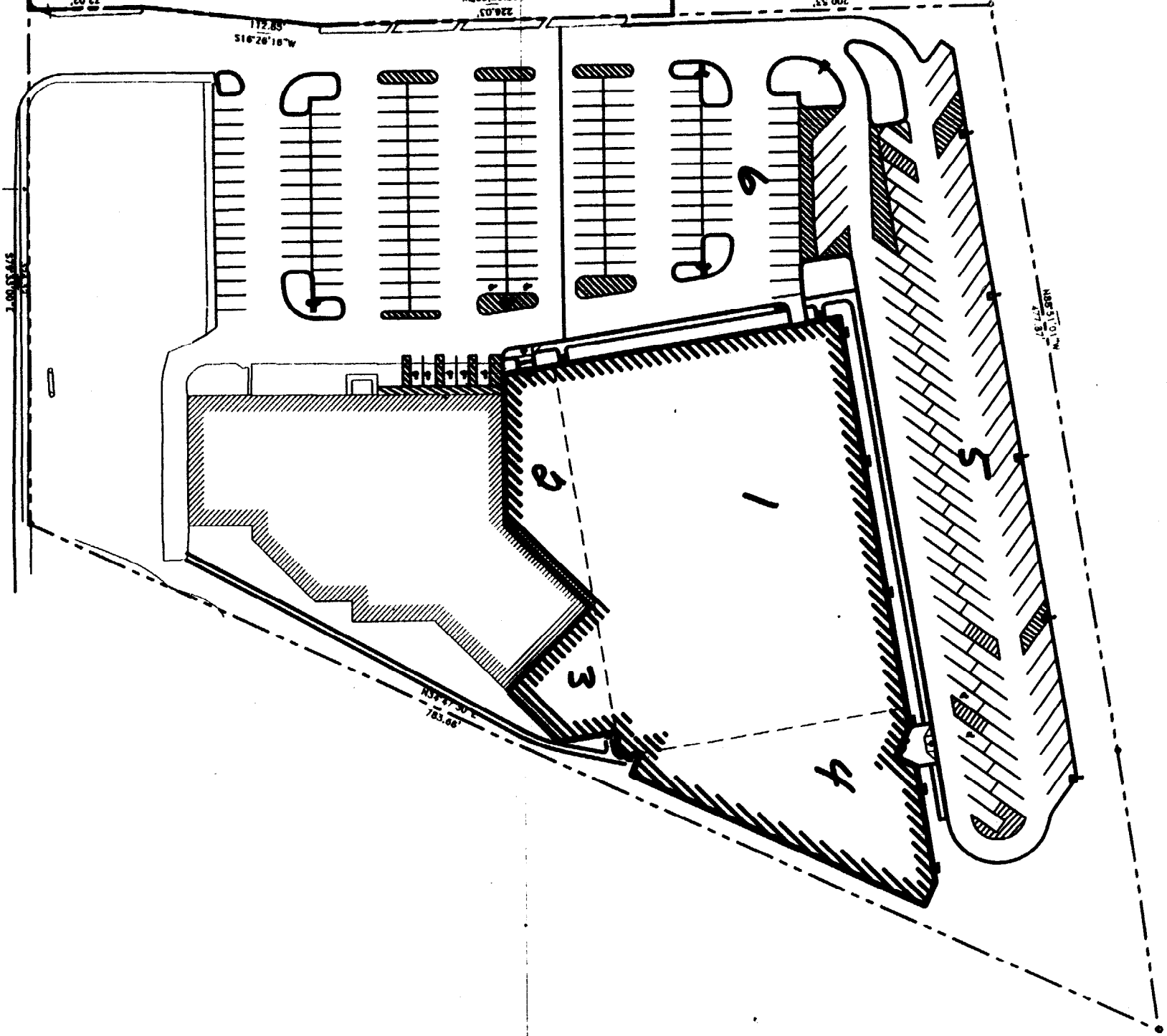
I spoke with Sarah Hopkins previously concerning the schedule of these activities and she explained the city has a mechanism in place where the Planning Authority grants written permission for an extension of the site plan approval not to exceed three years, and that the performance guarantee is reduced as work is completed.

There was mention at the planning board workshop of the need for individual plans and that both portions of the project must be able to stand alone. I think this was due to a miscommunication on our part and I hope this letter will clarify our intent that this is one project with an extended construction schedule due to the existing soils condition. Please confirm that the Department's mechanism for an extension of the site plan can be used with our project.

Sincerely,
SYTDesign Consultants

Peter B. Biegel, ASLA

PORTLAND SPORTS CENTER CONSTRUCTION SEQUENCE 6-2-03





SYTDesign Consultants
CIVIL ENGINEERS & LAND SURVEYORS

PRINCIPALS:

Saucier, Thomas W., P.E.
Young, David W., P.E., P.L.S.
Tubbs, Peter B., P.E., P.L.S.
Decker, W. Scott, P.E.

June 2, 2003

Ms. Kandi Talbot
Department of Planning and Development
389 Congress Street
Portland, ME 04101

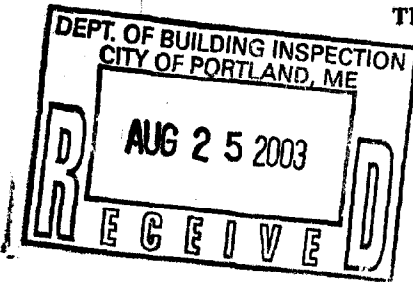
RE: Portland Sports Center – Pre approval construction activities

Dear Kandi:

Given our projects construction time frame constraints and the business aspect of needing to “open the doors” by the end of October we would like to request that should the public hearing be scheduled for a date later than the end of June we be allowed to submit a performance guarantee and perform the initial preload and pile driving operations prior to approval. These operations would be performed at the owner’s risk knowing that the project may not be approved, and if not, the performance guarantee would be in the amount sufficient to restore the disturbed portion of the site to it’s existing condition state. Can you direct us in how best to proceed with this request?

Sincerely,
SYTDesign Consultants

Peter B. Biegel, ASLA



#030882 1/1

ANALYSIS REPORT
SCC Accreditation No.: 40

271 A002

Mr. Crichton Wilson
FIELD TURF INC.

DATE: October 5th, 1999
FILE: 712-004

PRODUCT: A piece of tufted turf, approximately 9 x 54" filled with crumb rubber
(Received: October 1st, 1999)

STANDARD:

TEST: Ignition Characteristics of Finished Textile Floor Covering Materials
ASTM D2859-96 Modified

TEST CONDITIONS: Sample conditioned and tested at room temperature and R.H. < 50%;
Procedure used: Approximately 3 lbs of crumb rubber per square foot is dropped into each test specimen in order to permit the turf blades to stand up vertically;
Height of tufts showing free above the "infill": approximately 3/4";
6 specimens (≈ 9 x 9") tested as received only⁽¹⁾.

RESULTS:

Specimen #1: Passes
Specimen #2: Passes
Specimen #3: Passes
Specimen #4: Passes
Specimen #5: Passes
Specimen #6: Passes

REQUIREMENTS:

REMARKS: ⁽¹⁾The sample received is not large enough to perform 8 tests.

Prepared by:

Louise Dubrouil
Technician 5-10-99

Approved by:

Martin Filteau, Eng.
Director R&D Manufacturing division

** For any information concerning this report, please contact Mr. Martin Filteau **

The samples in relation to this test are retained for a period of 30 days following the expedition day of the written report, unless other instructions are received. The fees for all services after the tests or for appraisal in Court are 95.00\$ per hour. The above reported results refer exclusively to the samples submitted for evaluation. This analysis report cannot be partly used or reproduced, unless in whole, without the Textile Technology Centre prior written consent.

ASTM E 648 Critical Radiant Flux of Synthetic Grass

A Report To: **SynTenniCo Inc.**
5601 rue Paré, suite 220
Montréal, Québec
H4P 1P7

Attention: Yves Lalande

Submitted By: Fire & Flammability
Materials Validation

Report No. 95-J52-95-78-480
1 page + 1 page appendix

Date: October 25, 1995



ORTECH



ORTECH Corporation, 2395 Speakman Dr., Mississauga, Ontario, Canada L5K 1B3 Phone: (905) 822-4111 Fax: (905) 823-1446

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For: SynTenniCo Inc.

Report No. 95-J52-95-78-480

ACCREDITATION Standards Council of Canada, Registration #1B.**REGISTRATION** ISO 9002-1994, registered by QMI, Registration #001109.**SPECIFICATIONS OF ORDER**

Determine critical radiant flux in accordance with ASTM E 648, as per your P.O. #147397 dated October 5, 1995.

IDENTIFICATION

Synthetic grass intended for soccer surfaces and comprised of polypropylene blades mounted on a recycled rubber backing and infilled with sand.

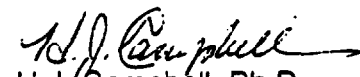
(ORTECH sample identification number 95-J52-S0480)

TEST RESULTS**ASTM E 648**

Critical Radiant Flux of Floor-Covering Systems
Using a Radiant Heat Energy Source

	<u>Distance</u> <u>Burned (cm)</u>	<u>Critical Radiant</u> <u>Flux (W/cm²)</u>	<u>Standard</u> <u>Deviation</u>
1:	53.0	0.34	
2:	39.5	0.54	
3:	43.0	<u>0.48</u>	
Average:		0.45	0.10


R.A. Carleton,
Fire & Flammability,
Materials Validation.


H.J. Campbell, Ph.D.,
Manager,
Fire & Flammability.

ORTECH

ASTM E 648 Critical Radiant Flux of Synthetic Grass

For: SynTenniCo Inc.

Report No. 95-J52-95-78-480

APPENDIX

(1 Page)

Summary of Test Procedure

ASTM E 648-94a (NFPA 253)

**Critical Radiant Flux of Floor Covering Systems
Using a Radiant Heat Energy Source.**

This procedure is used to measure the critical radiant flux of horizontally-mounted floor covering systems exposed to a flaming ignition source in a graded radiant heat energy environment, in a test chamber.

The radiant panel is calibrated to yield a heat flux gradient ranging from 1.1 W/cm² at the near end of the specimen to 0.1 W/cm² at the far end of the specimen.

The floor covering system (250 X 1070mm) is mounted on the holder as specified by its end use, e.g. glued directly to cement board, clamped to cement board or clamped over an undercushion.

The system is admitted into the calibrated test chamber, and after a 5 minute pre-heat, is ignited by a pilot flame. The distance at which extinguishment takes place is measured, correlated with the heat flux at that point, and is reported as the critical radiant flux (CRF). This value represents the minimum radiant energy required to sustain propagation of flaming combustion along the surface of the material.

The higher the critical radiant flux, the more resistant the floor covering system is to flame propagation.

Performance Requirements:

<u>Specifier</u>	<u>Minimum CRF (W/cm²)</u>	<u>Designated End-Use</u>
General Services Admin.(USA)	0.45 0.22	Institutional Commercial
Health, Education & Welfare (USA)	0.45 0.22	Institutional Commercial
New York & New Jersey Port Authority	0.50 0.40	Corridors, exitways General areas

Warrington
FIRE
research
CONSULTANCY · TESTING

Our ref: 108509
Your Order No: 55276
06 July 1999

Mr T Hession
The ERDC Group
4 Crossford Court
Dane Road
Sale
M33 7BZ

Dear Mr Hession

WARRES No. 108509

We have pleasure in enclosing the above test report.

The description of the specimens tested has been prepared from information provided by yourselves and every precaution has been taken to ensure that the details are correct. If you find that there are any inaccuracies, however, could you please return the original report to us within 14 days together with written notification of the inaccuracy.

Yours sincerely



ELAN WARWICK
Technical Officer
Reaction to Fire Testing
WARRINGTON FIRE RESEARCH CENTRE

(W89255L)

GFCG A	
- 8 JUL 1999	
Original	File/ - :
Action	✓
Copies	✓
	✓
	✓
	✓
	✓
Controlled	Yes/No

ERDC A	
- 3 JUL 1999	
Original	File/
Action	
Copies	
Controlled	Yes/No

Test Report

WARRES No. 108509

BS 4790: 1987

Method For Determination Of The Effects
Of A Small Source Of Ignition On Textile
Floor Coverings (Hot Metal Nut Method)

Sponsored By

The ERDC Group
4 Crossford Court
Dane Road
Sale
M33 7BZ

Warrington
FIRE
research
CONSULTANCY & TESTING

The Professionals in Fire Safety

Test Report

WARRES No. 108509

BS 4790: 1987
Method For Determination Of The Effects
Of A Small Source Of Ignition On Textile
Floor Coverings (Hot Metal Nut Method)

Sponsored By

The ERDC Group
4 Crossford Court
Dane Road
Sale
M33 7BZ

1 Purpose Of Test

To determine the effects of a small source of ignition on textile floor coverings using the hot metal nut, as specified in BS 4790: 1987, and to determine the statement which can be made on the label of the carpet, as specified in BS 5287: 1988.

2 Description Of Test Specimens

The description of the specimens given below has been prepared from information provided by the sponsor of the test. All values quoted are nominal, unless tolerances are given.

The specimens comprised a decorative synthetic carpet (product referenced "Fieldturf") having a total weight of 37.01kg/m² and consisting of a UV resistant, low friction polyethylene yarn which had been woven into a double layered, UV treated woven polypropylene primary backing.

Once laid the carpet is infilled between the fibres with a mixture of silica sand, recycled rubber crumb and "Nike" grind to an approximate height of 30mm.

Further details of the construction of the carpet have been provided and are held on our confidential file relating to this investigation. The sponsor was unwilling to provide further details of the secondary backing and the overall thickness of the product.

The specimens were supplied by the sponsor. Warrington Fire Research Centre was not involved in any selection or sampling procedure.

3 Method Of Mounting Of Test Specimens

The specimens were mounted using method 1 : loose laid as specified in clause 8.2 of the Standard.

4 Conditioning Of Specimens

The specimens were received on the 26th May 1999.

Prior to testing the bonded specimens were conditioned at a temperature of $20^{\circ}\text{C} \pm 2^{\circ}\text{C}$ and a relative humidity of $65\% \pm 2\%$ until the mass of each specimen showed no progressive change greater than 0.25% when determined at 2 hour intervals.

5 **Date Of Test**

The test was performed on the 8th June 1999.

6 **Test Procedure**

Three specimens were tested in accordance with the procedure given in section 9 of the Standard.

The following effects were noted;

a) Where the effects of ignition do not reach the clamping ring:-

(i) The elapsed time in seconds from the instant of application of the nut to the extinction of any flame.

and

(ii) The time in seconds of any after-glow and/or smouldering subsequent to removal of the nut and to extinction of any flame.

b) Where the effects of ignition reach the clamping ring:-

(i) The time in seconds to reach the ring from the instant of application of the nut.

In both cases (a) and (b) above the radii of the circles that just contain the affected areas on both the use-surface and the under-surface of the specimen were recorded.

For none of the three specimens tested did the effects of ignition reach the clamping ring, consequently only the following measurements were recorded:-

Specimen No:	Time to extinction of flaming (seconds)	Time to extinction of smouldering (seconds)	Radius of affected area	
			Use surface (mm)	Under surface (mm)
1	168	55	40	NIL
2	121	41	40	NIL
3	301	70	40	NIL

7 **Assessment Of The Floorcovering As Specified In BS 5387: 1988**

When the results of the test to BS 4790: 1987 are assessed in accordance with BS 5287: 1988, the minimum information to be given on the manufacturers label should be as follows:

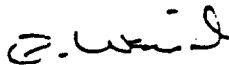
"When tested according to method 1 :loose laid of BS 4790, has a medium radius of effects of ignition (over 35 mm upto 75mm)".

8 **Validity**

The specification and interpretation of fire test methods are the subject of ongoing development and refinement. Changes in associated legislation may also occur. For these reasons it is recommended that the relevance of test reports over five years old should be considered by the user. The laboratory that issued the report will be able to offer, on behalf of the legal owner, a review of the procedures adopted for a particular test to ensure that they are consistent with the current practices, and if required may endorse the test report.

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Responsible Officer



ELAN WARWICK
Technical Officer
Reaction to Fire Testing

Approved



C DEAN
Senior Technical Officer
Reaction to Fire Testing
for and on behalf of
WARRINGTON FIRE RESEARCH CENTRE

Date of Issue: **06 July 1999**

(W8985SL)

Bodycote MATERIALS TESTING ORTECH LABORATORY

BODYCOTE ORTECH INC. • 2395 SPEAKMAN DRIVE, MISSISSAUGA, ONTARIO, CANADA L5K 1B3 • TEL: (905) 822-4111 • FAX: (905) 823-1446

Physical Properties Testing of Floor Covering

A Report to: FieldTurf Inc.
Division of SynTenniCo Inc.
5050 Paré Street, Suite 280
Montréal, Quebec
H4P 1P3

Attention: Crichton Wilson

Tel: 514-340-9311
Fax: 514-486-9927

Submitted by: Anne-Lise Larsen
Textile & Clothing Technologies

Report No. 99-J51-T0364

Date: May 10, 1999

IDENTIFICATION

Ten samples of floor covering (with "infill" mix supplied) identified as follows:

Our Sample Identification Client Sample Identification

99-J51-T0364-1	No Identification
99-J51-T0364-2	FT. 0010G ±5 ST/in./GLUE
99-J51-T0364-3	FT. 0020G ±4 ST/in./GLUE
99-J51-T0364-4	FT. 0030G ±7 ST/in./GLUE
99-J51-T0364-5	FT. 0040G 4.5-5 ST/in./GLUE
99-J51-T0364-6	FT. 0050G 4 ST/in
99-J51-T0364-7	FT. 0060G 4 ST/in.
99-J51-T0364-8	FT. 0070G 4 ST/in.
99-J51-T0364-9	FT. 0080G 4 ST/in.
99-J51-T0364-10	FT. 0090G 4 ST/in.

(Bodycote ORTECH Inc. Ref. 99-J51-T0364/1-10).

SPECIFICATIONS OF ORDER

Perform physical properties testing as per P. O. #9910164.

TEST PROCEDURES

Breaking Strength and Elongation of Textile Fabrics (Grab Method): ASTM D5034-95
(ASTM D1682 superseded)

Tuft Bind of Pile Yarn Floor Coverings: ASTM D1335

Ignition Characteristics of Finished Textile Floor Covering Materials (Pill Test): ASTM D2859
Tested as a composite with "infill" mix; 10 lb/ft².

Seam Strength: ASTM D5034-95. Tested in accordance with this specification; the seam
located in the center of the specimen horizontally.

Thermal Transmission Properties: ASTM C518-91

IDENTIFICATION

At the request of Field Turf, Bodycote ORTECH Inc. was retained to evaluate a sample of green carpet/infill mix for thermal resistance properties. The sample was assigned the Bodycote ORTECH Inc. Sample No. 99-J51-T0364.

SPECIFICATIONS OF ORDER

Testing was requested by means of a Bodycote ORTECH Inc. Work Order No. 63828, signed 16 April 1999.

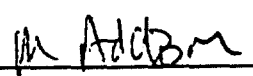
TEST PROCEDURE


The sample submitted for evaluation was tested in accordance with ASTM C518 -91 "Standard Test Method for Steady-State Heat Flux Measurements and Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus". Testing was conducted using a Holometrix Heat Flow Meter (MII A13492) at a mean temperature of 24°C and a differential of 22°C. The green carpet was covered with enough "infill" mix to reach a weight of 10 lbs/ft².

TEST RESULTS

The thermal resistance of Bodycote ORTECH Inc. Sample No. 99-J51-T0364 is 0.485 m².°K/W as shown in the following table.

TABLE - Thermal Transmission Properties (ASTM C518-91)				
Bodycote Ortech Sample No:99-J51-T0364				
	SI Units		IP Units	
Specimen thickness	59.70	mm	2.350	inch
Temperature Differential	21.80	°C	39.24	°F
Mean test temperature	24.20	°C	75.56	°F
Thermal Conductance	2.061	W/m ² .°K	0.363	Btu/ft ² .h.°F
Thermal Resistance	0.485	m ² .°K/W	2.755	°F.ft ² .h/Btu
Thermal Conductivity per unit thickness	0.123	W/m.°K	0.853	Btu.in/ft ² .h.°F
Thermal Resistance per unit thickness	8.13	m.°K/W	1.172	°F.ft ² .h/Btu.in


 Marianne Addison
 Project Technologist
 Building Performance


 David Bailey, P.Eng.
 Manager
 Building Performance

ACCREDITATION

Canadian General Standards Board #76002, Standards Council of Canada #1.

REGISTRATION

ISO 9002-1994 registered by QMI, Registration #001109.



STATE OF MAINE
 17 State House Station
 Augusta, ME 04333

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IN THE MATTER OF

PORTLAND SPORTS CENTER, LLC
 Portland, Cumberland County
 PORTLAND SPORTS CENTER
 Tier # L-21366-TC-A-N

) NATURAL RESOURCE PROTECTION ACT
) FRESHWATER WETLAND ALTERATION
) WATER QUALITY CERTIFICATION
) FINDINGS OF FACT AND ORDER

Project Description: The applicant proposes to fill 12,920 square feet of scrub-shrub and emergent wetland to construct an indoor sports facility and associated parking on a 4 acre parcel off Warren Avenue in the City of Portland. Also included is 1,140 square feet of wetland fill from an earlier expansion, not previously permitted, for a total of 14,060 square feet. The wetlands are primarily in drainage ditches located in the back of the property. The wetland will be filled to construct parking areas associated with the indoor sports facility. The parcel is currently developed with two buildings, a miniature golf facility, and existing parking areas.

Permit for:	<input checked="" type="checkbox"/> Tier 1	<input type="checkbox"/> Tier 2
DEP Decision:	<input checked="" type="checkbox"/> Approved	<input type="checkbox"/> Denied (see attached letter)
CORPS Action:	<input checked="" type="checkbox"/> The Corps has been notified of your application. The following are subject to Federal screening: (1) projects with previously authorized or unauthorized work, in combination with a Tier 1 permit for a single and complete project, which total more than 15,000 square feet of altered area; (2) projects with multiple state permits and/or state exemptions which apply to a single and complete project that total more than 15,000 square feet of altered area; and (3) projects that may impact a vernal pool, as determined by the State of Maine or the Corps. If your activity is listed above, <i>Corps approval is required for your project.</i> For information regarding the status of your application contact the Corps' Maine Project Office at 623-8367.	

Special Conditions: Further wetland alteration shall be approved by the Department prior to construction.

Standard Conditions:

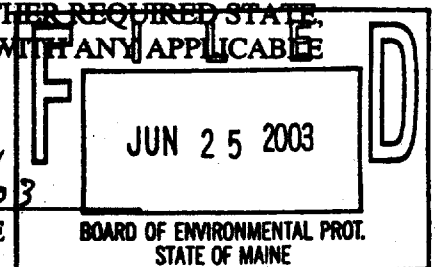
- 1) If construction or operation of the activity is not begun within two (2) years from the date signed, this permit shall lapse and the applicant shall reapply to the Department for a new permit. This permit is transferable only with prior approval from the Department. If the activity is associated with a larger project, starting any aspect of that project constitutes start of construction.
- 2) The project shall be completed according to the plans in the application. Any change in the project plans must be reviewed and approved by the Department.
- 3) Properly installed erosion control measures shall be installed prior to beginning the project, and all disturbed soil should be stabilized immediately upon project completion.
- 4) A copy of this approval will be sent to the City of Portland. Department approval of your activity does not supersede or substitute the need for any necessary local approvals.

Please note the attached sheet for guidance on appeal procedures.

THIS APPROVAL DOES NOT CONSTITUTE OR SUBSTITUTE FOR ANY OTHER REQUIRED STATE, FEDERAL OR LOCAL APPROVALS NOR DOES IT VERIFY COMPLIANCE WITH ANY APPLICABLE SHORELAND ZONING ORDINANCES.


 DAWN R. GALLAGHER, COMMISSIONER
 RLG/ L-21366-TC-A-N

6/25/03
 DATE



**NATURAL RESOURCE PROTECTION ACT (NRPA)
STANDARD CONDITIONS**

THE FOLLOWING STANDARD CONDITIONS SHALL APPLY TO ALL PERMITS GRANTED UNDER THE NATURAL RESOURCE PROTECTION ACT, TITLE 38, M.R.S.A. SECTION 480-A ET.SEQ. UNLESS OTHERWISE SPECIFICALLY STATED IN THE PERMIT.

- A. **Approval of Variations From Plans.** The granting of this permit is dependent upon and limited to the proposals and plans contained in the application and supporting documents submitted and affirmed to by the applicant. Any variation from these plans, proposals, and supporting documents is subject to review and approval prior to implementation.
- B. **Compliance With All Applicable Laws.** The applicant shall secure and comply with all applicable federal, state, and local licenses, permits, authorizations, conditions, agreements, and orders prior to or during construction and operation, as appropriate.
- C. **Erosion Control.** The applicant shall take all necessary measures to ensure that his activities or those of his agents do not result in measurable erosion of soils on the site during the construction and operation of the project covered by this Approval.
- D. **Compliance With Conditions.** Should the project be found, at any time, not to be in compliance with any of the Conditions of this Approval, or should the applicant construct or operate this development in any way other than specified in the Application or Supporting Documents, as modified by the Conditions of this Approval, then the terms of this Approval shall be considered to have been violated.
- E. **Initiation of Activity Within Two Years.** If construction or operation of the activity is not begun within two years, this permit shall lapse and the applicant shall reapply to the Board for a new permit. The applicant may not begin construction or operation of the activity until a new permit is granted. Reapplications for permits shall state the reasons why the applicant will be able to begin the activity within two years from the granting of a new permit, if so granted. Reapplications for permits may include information submitted in the initial application by reference.
- F. **Reexamination After Five Years.** If the approved activity is not completed within five years from the date of the granting of a permit, the Board may reexamine its permit approval and impose additional terms or conditions to respond to significant changes in circumstances which may have occurred during the five-year period.
- G. **No Construction Equipment Below High Water.** No construction equipment used in the undertaking of an approved activity is allowed below the mean high water line unless otherwise specified by this permit.
- H. **Permit Included In Contract Bids.** A copy of this permit must be included in or attached to all contract bid specifications for the approved activity.
- I. **Permit Shown To Contractor.** Work done by a contractor pursuant to this permit shall not begin before the contractor has been shown by the applicant a copy of this permit.

Revised (4/92)

DEP LW0428

N.A. — Not applicable

ADMINISTRATION (Chapter 1)

512 WARREN
JOKERS

Complete construction documents
(107.5, 107.6, 107.7)

Signed/sealed construction documents
(107.7, 114.1)

NEED SPEC BOOK - SOIL ANALYSIS

BUILDING PLANNING (Chapters 3, 4, 5; 6)

USE OR OCCUPANCY CLASSIFICATION (302.0-313.0)

Single Use Group

Specific occupancy areas (302.1.1)

Mixed Use Groups

Accessory areas (302.1.2)

SEPARATED ACCESSORY
A3 w/ (E)

GENERAL BUILDING LIMITATIONS (Chapters 5 & 6)

Apply Case 1 to determine the allowable height and area and permitted types of construction for a building containing a single use group or nonseparated mixed use groups. Apply Case 2 to determine the allowable height and area and permitted types of construction for a building containing separated mixed use groups.

AREA MODIFICATIONS TO TABLE 503

UNCOMPLETED AREA

% of Allowable tabular area (Table 503)	100%
% Reduction for height (Table 506.4)	— %
% Increase for open perimeter (506.2)	+ — %
% Increase for automatic sprinklers (506.3)	+ — %
Total percentage factor	= — %
Conversion factor	— (Total percentage factor/100%)

Open perimeter (506.2)	North	East	South	West
Open perim.	— ft.	— ft.	— ft.	— ft.
Perimeter		— ft.		
% Open perimeter =		$(\text{Open perim.} / \text{perim.}) \times 100\%$		
% Tab. area increase =		$2 \times (\% \text{ Open perim.} - 25\%)$		

CASE 1 — SINGLE USE OR NONSEPARATED MIXED USE GROUPS (313.1.1, 503.0)

Using Table 503, identify the allowable height and area of the single use group or the most restrictive of the nonseparated mixed use groups. Construction types that provide an allowable tabular area equal to or greater than the adjusted floor area and allowable heights (as modified by Section 504.0) equal to or greater than the actual building height are permitted.

Actual floor area _____ ft.² Actual building height _____ feet _____ stories

Adjusted floor area _____ ft.² Allowable building height _____ feet _____ stories

*Adjusted floor area = actual floor area/conversion factor

Permitted types of construction 2C

Type of construction assumed for review (602.3) 2

ATRIUMS

- Automatic sprinkler system (404.2)
- Occupancy (404.3)
- Smoke control (404.4)
- Enclosure (404.5)
- Fire alarm system (404.6)
- Travel distance (404.7)

OTHER SPECIAL USE AND OCCUPANCY

- Underground structures (405.0)
- Open parking structures (406.0)

Private garages (407.0)

Public garages (408.0)

Use Group I-2 (409.0)

Use Group I-3 (410.0)

Stages and platforms (412.0)

Special amusement buildings (413.0)

HPM facilities (416.0)

Hazardous materials (307.8, 417.0)

Use Groups H-1, H-2, H-3 and H-4 (418.0)

Swimming pools (421.0)

FIRE PROTECTION (Chapters 6, 7, 8, 9)

FIRERESISTANT MATERIALS AND CONSTRUCTION (Chapter 7 and Table 602)

Note: Entry in indicates required rating in hours. NC indicates noncombustible construction required.

COMBUSTIBILITY (603.0, 604.0, 605.0, 606.0)

- Exterior walls
- Interior elements
- Roof

CONSTRUCTION DOCUMENTS (703.0)

NFPA 701 Fire tests (704.0)

EXTERIOR WALLS (507.2, 705.0, 716.5)

	North	East	South	West
Fire separation distance	<u>50 FT. PER S</u>			

Loadbearing	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Nonloadbearing	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

- N/A Exterior opening protectives (705.3, 706.0)
- N/A Parapet walls (705.6)

FIRE SEPARATION ASSEMBLIES

- N/A Exit enclosures (709.0, 710.0, 1014.11)
- N/A Other shafts (709.0, 710.0)
- N/A Mixed use and fire area separations (713.1.2)
- N/A Other separation assemblies (702.1.1, Table 602)

FIRE PARTITIONS

- DIRECT EXITING TO OUTSIDE Exit access corridors (711.0, 1011.4)
- Tenant separations (711.0)
- Dwelling unit separations (711.0)
- Guestroom separations (711.0)

OTHER FIRERESISTANT CONSTRUCTION

- Fire and party walls (707.0 and Table 707.1)
- Smoke barriers (712.0)
- Nonloadbearing partitions (Table 602)
- Interior loadbearing walls, columns, girders, trusses (716.0)
- Supporting construction (716.0)
- Floor construction (713.0, 1006.3.1)
- Roof construction (713.0, 715.0)
- Penetrations (714.0)
- Opening protectives (717.0, 719.0, 720.0)
- Fire dampers (718.0)
- Fireblocking/draftstopping (721.0)
- Thermal and sound-insulating materials (723.0)

STANDPIPE SYSTEMS

- Building height (915.2.1)
- Building area (915.2.2)
- Malls (915.2.3)
- Stages (915.2.4)
- Approved system (915.3, 915.3.1)
- Piping design (915.4)
- Water supply (915.5)
- Control valves (915.6)
- Hose connection (915.7)

FIRE DEPARTMENT CONNECTIONS

- Required (916.1)
- Connections (916.2)

YARD HYDRANTS

- Fire hydrants (917.1)

FIRE ALARM SYSTEMS

- Approval (918.3)
- Assembly (A-4), Educational (E) (918.4.1)
- Business (B) (918.4.2)
- High-hazard (H) (918.4.3)
- Institutional (I) (918.4.4)
- Residential (R-1) (918.4.5)
- Residential (R-2) (918.4.6)
- Location/details (918.5)
- Power supply/wiring (918.6, 918.7)
- Alarm-notification appliances (918.8)
- Voice/alarm signaling system (918.9)

AUTOMATIC FIRE DETECTION SYSTEMS

- Approval (919.3)
- Institutional (I) (919.4.1, 919.4.2, 919.4.3)
- Residential (R-1) (919.4.4)
- Sprinklered buildings exception (919.5)
- Zones (919.6)

SINGLE- AND MULTIPLE-STATION SMOKE DETECTORS

- Residential (R-1) (920.3.1)
- Residential (R-2, R-3) (920.3.2)
- Institutional (I-1) (920.3.3)
- Interconnection (920.4)
- Battery backup (920.5)

FIRE EXTINGUISHERS

- Approval (921.1)
- Required (921.2)

SMOKE CONTROL SYSTEMS

- Passive system (922.2.1)
- Mechanical system (922.2.2)
- Smoke removal (922.3)
- Activation (922.4)
- Standby power (922.5)

SMOKE AND HEAT VENTS

- Size and spacing (923.2)

SUPERVISION

- Fire suppression systems (924.1)
- Fire alarm systems (924.2)

MEANS OF EGRESS (continued)

<input checked="" type="checkbox"/>	General limitations (1005.0)	<u>NONE</u>	Ramps (1016.0)
<u>NONE</u>	Air movement in egress elements (1005.7)	<input checked="" type="checkbox"/>	Means of egress doorways (1017.0)
<input checked="" type="checkbox"/>	Types and location of egress (1006.0)	<input checked="" type="checkbox"/>	Number of doorways (1017.2)
<input checked="" type="checkbox"/>	Exit access travel distance (1006.5 and Table 1006.5)	<input checked="" type="checkbox"/>	Size of doors (1017.3)
ADD <input checked="" type="checkbox"/>	Accessible means of egress (1007.0)	<u>NONE</u>	Door hardware (1017.4)
<u>NA</u>	Emergency escape (1010.4)	<input checked="" type="checkbox"/>	Revolving doors (1018.0)
<u>NA</u>	Exit access passageways and corridors (1011.0)	<u>N/A</u>	Horizontal exits (1019.0)
<u>N/A</u>	Aisles and accessways (1012.0)	<u>NONE</u>	Level of exit discharge passageway (1020.0)
	Grandstands (1013.0)	<u>NONE</u>	Guards (1021.0)
	Interior stairways (1014.1 - 1014.11)	<input checked="" type="checkbox"/>	Handrails (1022.0)
	Exterior stairways (1014.1 - 1014.10, 1014.12)	<input checked="" type="checkbox"/>	Exit signs and lights (1023.0)
	Smokeproof enclosures (1015.0)	<u>NONE</u>	Means of egress lighting (1024.0)
			Access to roof (1027.0)

ACCESSIBILITY (Chapter 11)

<input checked="" type="checkbox"/>	Required (1103.0)	<input checked="" type="checkbox"/>	Accessible entrances (1106.0)
<input checked="" type="checkbox"/>	Accessible route (1104.0)	<input checked="" type="checkbox"/>	Special use groups (1107.0)
<input checked="" type="checkbox"/>	Parking facilities (1105.0)	<input checked="" type="checkbox"/>	Features and facilities (1108.0)

INTERIOR ENVIRONMENT (Chapter 12)

<input checked="" type="checkbox"/>	Room dimensions (1204.0)	<input checked="" type="checkbox"/>	Air-borne noise (STC) (1214.2)
<input checked="" type="checkbox"/>	Roof spaces (1210.1, 1211.2)	<input checked="" type="checkbox"/>	Structure-borne sound (IIC) (1214.3)
<input checked="" type="checkbox"/>	Crawl spaces (1210.2, 1211.1)	<input checked="" type="checkbox"/>	Radiating (1215.0)

BUILDING ENVELOPE (Chapters 14, 15)

EXTERIOR WALL COVERINGS (Chapter 14)

<input checked="" type="checkbox"/>	Performance requirements (1403.0)	MEMBRANE TESTED 1996 NFPA 701	Combustible material restrictions (1406.0)
<input checked="" type="checkbox"/>	Wall sidings and veneers (1404.0, 1405.0)		

STRUCTURAL DESIGN CALCULATIONS (continued)

Unbalanced snow loads considered (1608.6)

Drift snow loads considered (1608.7)

Sliding snow loads considered (1608.8)

Internal pressure effects considered (1609.7, 1609.8)

Components and cladding effects considered (1609.8)

Load combinations considered (1613.1)

MATERIAL PERFORMANCE (Chapter 17)

Material performance technical data or BOCA Evaluation Services or National Evaluation Services report supplied (1703.0) Report No. _____

Owner's special inspection program specified (1705.0)

Prefabricated items (1705.2)

Steel construction (1705.3)

Concrete construction (1705.4)

Masonry construction (1705.5)

Wood construction (1705.6)

Prepared fill and foundations (1705.7, 1705.8, 1705.9)

Fireresistive materials (1705.12)

EIFS, wall panels and veneers (1705.10, 1705.13)

FOUNDATIONS AND RETAINING WALLS (Chapter 18)

Soil type (1611.0, 1802.1, 1804.1)

Bearing value (1611.0, 1802.1, 1804.1)

Soil report (1802.1, 1804.1)

Prepared fill (1804.1.4)

Footings (1806.0 - 1811.0)

Foundations (1814.0 - 1824.0)

Foundation walls (1611.0, 1812.0)

Waterproofing/dampproofing (1813.0)

Retaining walls (1611.0, 1825.0)

STRUCTURAL MATERIALS (Chapters 19, 21, 22, 23)

CONCRETE (Chapter 19)

Plain, reinforced and prestressed concrete design/construction standard specified (1901.1, 1903.1.1)

Minimum slab requirements (1905.1)

Minimum concrete strength (Table 1907.1.2(1))

Cold-weather and hot-weather curing specified (1908.9, 1908.10)

MASONRY (Chapter 21)

Engineered masonry design/construction standard specified (2101.1.1)

Empirical masonry design (2101.1.2)

Construction materials (2104.0)

Mortar type (2104.7)

Cold-weather and hot-weather construction specified (2111.3, 2111.4)

Fireplaces and chimneys (2103.2, 2113.0 - 2117.0)

Glass block (2118.0)

LIGHT-TRANSMITTING PLASTIC (2603.5, 2604.0)

NA Diffusing systems (2604.5)
NA Wall panels (2605.0)

NA Unprotected openings (2606.0)
NA Roof panels (2607.0)
NA Sight glazing (2608.0)

BUILDING SERVICES (Chapters 28, 30)

MECHANICAL SYSTEMS (Chapter 28)

NA Waste- and linen-handling systems (2807.0)

NA Refuse vaults (2808.0)

ELEVATORS AND CONVEYING SYSTEMS (Chapter 30)

NA Construction standard specified (3001.2)
NA Elevator emergency operation (3005.2)
NA Hoistway enclosure (3007.1)

NA Venting (3007.3 - 3007.6)
NA Opening protectives (3008.2)
NA Conveyors and escalators (3010.0, 3011.0)

SPECIAL DEVICES AND CONDITIONS (Chapters 31, 34)

SPECIAL CONSTRUCTION (Chapter 31)

OK Membrane structures (3103.0)
NA Flood-resistant construction (3107.0)
NA Towers (3108.0)

PEDESTRIAN WALKWAYS (3106.0)

NA Construction and use (3106.1 - 3106.3)
NA Separation (3106.4)
NA Local approval (3106.5)
NA Egress and size (3106.6 - 3106.8)

EXISTING STRUCTURES (Chapter 34)

ADDITIONS, ALTERATIONS OR CHANGE OF OCCUPANCY

NA General requirements (3402.0)
NA Structural loads (1614.0, 3402.5)
NA Accessibility (1110.0, 3402.7)

NA Additions/alterations (3403.0, 3404.0)
NA Change of occupancy (1110.3, 3405.0)
NA Compliance alternative evaluation (3408.0)

BUILDING EVALUATION SUMMARY (Table 3408.7)

Existing use group _____	Proposed use group _____	Height in feet _____
Year building was constructed _____	Number of stories _____	
Type of construction _____	Area per floor _____	
Percentage of open perimeter _____ %	Percentage of height reduction _____ %	
Completely suppressed: Yes _____ No _____	Corridor wall rating _____	
Compartmentation: Yes _____ No _____	Required door closers: Yes _____ No _____	
Fire-resistance rating of vertical opening enclosures _____		
Type of HVAC system _____	_____ serving number of floors _____	