Form # P 04

# DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK

CITY OF PORTLAND

Please Read Application And Notes, If Any, Attached

CTION PERMIT

ation

Permit Number: 071016

epting this permit shall comply with all ances of the City of Portland regulating

ctures, and of the application on file in

PERMIT ISSUED This is to certify that MCDONALD'S CORPORA' N /Mar truction Co Construct new McDonald's b has permission to \_ FEB 2 1 2008 065 A012001 AT 332 ST JOHN ST

m or

ine and of the

provided that the person or persons. of the provisions of the Statutes of I the construction, maintenance and u this department.

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

fication inspe n must n and w n permi n proci re this ding or t thered ed or losed-in JR NOTICE IS REQUIRED.

of buildings and s

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

OTHER REQUIRED APPROVALS Fire Dept. \_ Cree Health Dept. Appeal Board\_ Other Department Name

PENALTY FOR REMOVING THIS CARD

City of Portland, I 389 Congress Street,		_				07-1016	Issue Date	•	065 AC	012001
Location of Construction:	Owi	ner Name:	<u>-</u>	<u> </u>	Own	er Address:			Phone:	
332 ST JOHN ST	M	CDONALD	S COR	PORATION	РО	BOX 10048				
Business Name:	Соп	tractor Name	:		Con	tractor Address:		_	Phone	-
			struction	Corporation		Osgood St. PO	Box 66 M	athuen	9786854	
Lessee/Buyer's Name	Pho	ne:				nit Type:				Zone:
					$ar{}$	ommercial		Lau		152
Past Use: Commercial / McDona		posed Use:	MaDon	alds Construct	Peri	mit Fee: \$6,575.00	\$648,00		O District:	
Commercial / McDona		mmerciai / w McDonal			FIR			INSPECTI		
						_	Approved Denied	Use Group	_	Type 5B
						see Con	d. fuck		////	08
Proposed Project Descripti	on:				1	see Con			/	
Construct new McDonald's bldg				Sign PED	estrian acti	VITIES DIS	Signature:	$\mathcal{L}(\mathcal{L})$		
					Acti	ion: Approv	ed [] Ap	proved w/Co	nditions	Denied
					Sign	nature:	_	D	ite:	
Permit Taken By:	Date Applied					Zoning	Approva	al		
dmartin	08/20/200		Sne	cial Zone or Revi	·we	Zonir	g Appeal		Historic Pres	servation
<ol> <li>This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.</li> <li>Building permits do not include plumbing, septic or electrical work.</li> <li>Building permits are void if work is not started within six (6) months of the date of issuance.</li> </ol>		Shoreland  Wetland		Variance		E	ot in District or Landma			
					Miscellaneous			Does Not Re	quire Review	
		suance.	☐ Flo	ood Zone		Condition	nal Use		Requires Rev	view
	False information may invalidate a building permit and stop all work		Subdivision		Interpretation			Approved		
			Sit	e Plan		Approve	d		Approved w/	Conditions
FB	NMIT ISSUED		Maj.	Minor MM	ndy	Denied			Denied	<u> </u>
	1000011	,	Date:	9/2	رة أر	Date:		Date:		)
CITY O	B 2 1 2003			<del></del>	17			<u>,                                      </u>		
	100000		C	ERTIFICATI	ON					
I hereby certify that I ar I have been authorized jurisdiction. In addition shall have the authority such permit.	by the owner to main, if a permit for wo	ke this appl rk describe	ication a	as his authorize application is i	d age ssued	nt and I agree t , I certify that t	o conform he code of	to all appl ficial's autl	icable laws norized repr	of this resentative
SIGNATURE OF APPLICA	NT			ADDRES	S	<del>-</del>	DATE		PHC	)NE
RESPONSIBLE PERSON II	N CHARGE OF WORK	. TITLE	_	<u> </u>			DATE		PHC	DNE

City of Portland, Ma	ine - Building or Use Permit	t	Permit No:	Date Applied For:	CBL:
389 Congress Street, 04	101 Tel: (207) 874-8703, Fax: (	(207) 874-8716	07-1016	08/20/2007	065 A012001
Location of Construction:	Owner Name:	[0	Owner Address:		Phone:
332 ST JOHN ST	MCDONALD'S COR	PORATION	PO BOX 10048		
Business Name:	Contractor Name:		Contractor Address:		Phone
	Marceau Construction	Corporation	28 Osgood St. PO	Box 66 Mathuen	(978) 685-4706
Lessee/Buyer's Name	Phone:	1	Permit Type:		
			Commercial		
Proposed Use:		Propose	d Project Description:	<del></del>	
Commercial / McDonalds	Construct new McDonald's bldg	Constr	uct new McDonald	's bldg	
Dept: Zoning Note:	Status: Approved with Condition		Marge Schmucka		Ok to Issue: 🔽
work.	pproved on the basis of plans submi	itted. Any deviat	ions shall require a	separate approval be	fore starting that
2) Separate permits shall	be required for any new signage.				
Dept: Building Note:	Status: Approved with Condition	ns Reviewer:	Mike Nugent	Approval Da	te: 02/21/2008 Ok to Issue: ✓
1) Final Foundation stab	ilization plans must be certified by t	he Geo Technica	ıl engineer		
Donte Fire	Status Anneyed with Condition	Doving	Capt Greg Cass	Approval Da	ite: 10/16/2007
Dept: Fire	Status: Approved with Condition	is Keviewer:	Capt Greg Cass		
	ood system requires a seperate perm		PI	- HMIT 1220FD	Ok to Issue:
3) Application requires S	State Fire Marshal approval.		1 1	FEB 2 1 2008	
1	shall be installed in accordance with	NFPA 13			
<u> </u>		INFIA IS.	CIT	Y OF PORTLAN	
5) All construction shall	• •		L		
6) Occupancies with an o	occupant load of 100 persons or mor	re require panic h	arware on all doors	s serving as a means	of egress.
7) Installation of a Fire A	Alarm system requires a Knox Box to	o be installed per	city crdinance		
Dept: Public Works	Status: Pending	Reviewer:		Approval Da	te·
Note:	Status: 1 shamp	110/10//01			Ok to Issue:
Dept: Zoning	Status: Approved with Condition	s Reviewer:	Marge Schmucka	l Approval Da	te:
Note:				,	Ok to Issue:
Dept: Parks	Status: Pending	Reviewer:		Annuarial D	
Note:	Status. 1 chung	Reviewei:		Approval Da	Ok to Issue:
Dept: Fire	Status: Approved	Reviewer	Capt Greg Cass	Approval Da	 te:
Note:			54pt 510g 6455		Ok to Issue:

Location of Construction:	Owner Name:	Owner Address:	Phone:	
332 ST JOHN ST	MCDONALD'S CORPORATION	PO BOX 10048		
Business Name:	Contractor Name:	Contractor Address: Phone		
	Marceau Construction Corporation	28 Osgood St. PO Box 66 Mathuen	(978) 685-4706	
Lessee/Buyer's Name	Phone:	Permit Type:		
		Commercial		

Dept: DRC Reviewer: Philip DiPierro 02/01/2008 **Status:** Approved with Conditions Approval Date: Note:

Ok to Issue:

Ok to Issue:

Dept: Planning Status: Approved with Conditions Reviewer: Shukria Wiar Approval Date:

1) In lieu of roadway or sidewalk improvements, the applicant shall amke a contribution of \$10,000 towards signal/pedestrian improvements at the intersection of St. John Street & Park Avenue

2) There shall be either herbaceous plants such as daylilies or low ground cover such as junipers incorporated into the new planitng beds labeled as 'new lawn area' on the Landscaping Plan. Although this area serves as winter snow storage added plants are needed to rpevent this landscape bed from appearing as s'sea of mulch'

#### **Comments:**

Note:

8/21/2007-mes: This project has not been finalized thru planning - waiting for a stamped approved site plan.

9/21/2007-mes: Jeanie wanted me to pass this on to Mike N. for further review. Still waiting for site plan review.

10/22/2007-Idobson: Please Forward this to Richard Landry.

I have commenced the review of the above project and have the following questions/comments:

- 1) Please provide the methodology for achieving a Seismic design category of "C" when the site class is "F".
- 2) On the Statement of Special Inspections, the Seismic Quality Assurance plan classifies the project as "B" ??
- 3) Please provide detailed plans and specs for the rammed aggregate pier system that establish compliance with all applicable parts Section 1808 of the 2003 IBC.
- 4) Please provide a COMCheck report for this project.
- 5) Please Provide kitchen exhaust system plans and specs that establish compliance with the 2003 IMC.

Thanks Mike Nugent Consulting Plans Examiner City of Portland

Location of Construction:	Owner Name:		Owner Address:	Phone:
332 ST JOHN ST	MCDONALD'S CORPORATION I		PO BOX 10048	
Business Name:	Contractor Name:		Contractor Address:	Phone
	Marceau Construction	Corporation	28 Osgood St. PO Box 66 Mathuen	(978) 685-4706
Lessee/Buyer's Name	Phone:		Permit Type:	
			Commercial	

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- 4) Please provide a COMCheck report for this project.
- 5) Please Provide kitchen exhaust system plans and specs that establish compliance with the 2003 IMC.

Thanks
Mike Nugent
Consulting Plans Examiner
City of Portland

11/13/2007-Idobson: I still have not received the responses to these questions, I'mm returning this permit to City Hall.

>>> MIke Nugent 10/22/07 9:59 PM >>> Please Forward this to Richard Landry.

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Consulting Plans Examiner
City of Portland

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332 ST JOHN ST	MCDONALD'S CORPORATION		PO BOX 10048	
Business Name:	Contractor Name:		Contractor Address:	Phone
	Marceau Construction Corporation		28 Osgood St. PO Box 66 Mathuen	(978) 685-4706
Lessee/Buyer's Name	Phone:		Permit Type:	
			Commercial	

11/14/2007-ldobson: Mike,

The architect explains that the delay in response is partly due to the change of building foundation type from aggregate piers to wood piles. I should have items 1-3, and 5 addressed today. I have already provided Item 4 to you. Could you provide me with your mailing address, so I can forward all of this information to you?

J. Chris Nadeau, P.E.

Associate/Sr. Project Manager

10/29/2007-Idobson: -----Original Message-----From: Philip Smalley [mailto:p.smalley@acmjm.com]

Sent: Monday, October 29, 2007 11:31 AM

To: Thom Duff

Cc: m.marchia@acmjm.com Subject: McD - PORTLAND, ME

Thom - We are in receipt of the comments you forwarded from the plans examiner in regards to the kitchen exhaust system plans and IMC 2003 as follows:

" 5) Please Provide kitchen exhaust system plans and specs that establish compliance with the 2003 IMC."

We have standard McD plans available from the equipment manufacturer that detail the installation and specifications of the kitchen cooking equipment, hoods, ductwork, fans, etc., which can be used in conjunction with our mechanical drawings which show the project specific location of these items.

Can you please find out a little more detail as to what the plans examiner may be looking for so we can show compliance as requested.

Thanks - Phil

Philip J. Smalley, PE

M.J. Marchia, Inc. 5 Washington Avenue Bay Shore, New York 11706 631.586.9560 tel 631.360.0186 fax. p.smalley@acmjm.com

1/31/2008-mes: Received a stamped, approved site plan from planning - to be given to building since they still have the permit for review.

## General 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: 33 2	ST Tobas CT Roatla	J ME	 3
Total Square Footage of Proposed Structure/An			· ·
5448 SF	53	014 6	
Tax Assessor's Chart, Block & Lot	Applicant *must be owner, Lessee or	Buyer*	Telephone:
Chart# Block# Lot#	Name McDOWAID'S USA, LLC		781.329.1450
	Address 640 Canton 57		
45 A 012	City, State & Zip Westwood, MA	02040	
Lessee/DBA (If Applicable)	Owner (if different from Applicant)	Co	ork: \$ 648,000.00
	Name	l W	ork: \$ 648,000.03
	Address	C	of O Fee: \$ 45.00
	City, State & Zip	To	otal Fee: \$ <u>6,595</u> a
Current legal use (i.e. single family) McDo	WAIL' BECTANIANT	L	<del>-</del>
If vacant, what was the previous use?	' <b>4</b>		<del></del>
Proposed Specific use: McDonald's	Rost Aurant		
Is property part of a subdivision?Project description:	If yes, please name		<del></del>
Contractor's name: MACCAU CONS  Address: 78 65 GODD ST . P  City, State & Zip MBThrey MA	1.0 Box 66	<del></del>	none: <b>97</b> 8-685-4701
Who should we contact when the permit is read	y: ROYER DESTALDING	Teleph	none: 978-675-6634
Mailing address (SALP)		1 	
	automatic denial of your perr	nit.	
n order to be sure the City fully understands the fay request additional information prior to the iss his form and other applications visit the Inspectionivision office, room 315 City Hall or call 874-8703.	uance of a permit. For further informa	ation or to	download copies of
thereby certify that I am the Owner of record of the nat I have been authorized by the owner to make this a ws of this jurisdiction. In addition, if a permit for wor athorized representative shall have the authority to entrovisions of the codes applicable to this permit.	application as his/her authorized agent. I k described in this application is issued, I	agree to cor certify that	nform to all applicable the Code Official's
ignature: Herry English	Date: 8/20/07	,	

#342

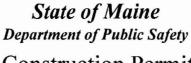
# LANDRY ARCHITECTS 389 Main Street 2ND Floor

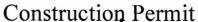
#### 0.70

	LETTER	OF	TRANSMIT	TAL
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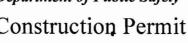
SALEM, NH 03079 TEL: (603) 890-6414 FAX: (603) 894-4358	ATTENTION MILE NUGENT
TO CITY OF PORTLAND	RE:
389 CONCILESS STREET	McDonardis RESTAURANT
PORTLAND, ME. 04101	
(207) 329-2354	7
WE ARE SENDING YOU ☐ Attached ☐ Under separate cover v	viathe following items:
☐ Shop drawings	ans
☐ Copy of letter ☐ Change order ☐	
COPIES DATE NO.	DESCRIPTION
	RAWING SHEETS -
	3.08
A-1.0, A-3.0,	A-3.1, A-4.0 5-3.0, 5-3.1, S-3.2, 5-3.3,
5-1.0, 5-2.0, S 5-3.4, 5-4.0	-3.0, 5-3.1, 5-3.2, 5-3.3,
	ICONER FOR PERMIT
3097700 3 30	101001) 110 1014111
THESE ARE TRANSMITTED as checked below:	
☐ For approval ☐ Approved as submi	itted   Resubmitcopies for approval
☐ For your use ☐ Approved as noted	d □ Submit copies for distribution
☑ As requested ☐ Returned for correct	ctions   Return corrected prints
☐ For review and comment ☐	
☐ FOR BIDS DUE	PRINTS RETURNED AFTER LOAN TO US
REMARKS	
	our HELP.
	- THOM
,	<del></del>
FEB 1 1 2008	
COPY TO	
COPY TO	SIGNED. Thomas Off
If enclosures are not as noted,	











Sprinkled

Sprinkler Supervised

# 17343

#### MCDONALD'S RESTAURANT PORTLAND

Located at: 332 ST. JOHN'S STREET

**PORTLAND** 

Occupancy/Use: ASSEMBLY CLASS C

#### Permission is hereby given to:

MCDONALDS USA LLC **SUITE 310** 690 CANTON ST. WESTWOOD, MA 02090

to construct or alter the afore referenced building according to the plans hitherto filed with the Commissioner and now approved.

No departure from application form/plans shall be made without prior approval in writing. This permit is issued under the provision of Title 25, Chapter 317, Section 2448 and the provisions of Title 5, Section 4594 - F.

Nothing herein shall excuse the holder of this permit for failure to comply with local ordinances, zoning laws, or other pertinent legal restrictions. Each permit issued shall be displayed/available at the site of construction.

This permit will expire at midnight on the

26 th of June

2008

Dated the 27 th day of December A.D. 2007

Commissioner

**Copy-3 Code Enforcement Officer** 

Comments:

VAN 7 2 3000

Code Enforcement Officer PORTLAND, ME

DUBOIS	
ENGINEERING	
ASSOCIATES, INC	,

**CONSULTING ENGINEERS** 

STRUCTURAL O FORENSIC

November 14, 2007

Project #07056

Mr. Thomas B. Duff, RA Landry Architects 389 Main Street Salem. NH 03079

RE:

Comments from City of Portland Plans Examiner McDonald's Restaurant 332 St John Street Portland, ME

Dear Thom:

In response to the comments from Mike Nugent, the Consulting Plans Examiner for the City of Portland we have the following information.

Item 1: At the present time, the geotechnical engineer did not investigate the site to the extent that is required to classify it as a Site Class "F". They simply remarked that it could be classified as an "F" site based on one boring. In reality the site is more than likely an "E" or better. The selection of the rammed aggregate piers was based on the recommendation of the geotechnical engineer. By installing these rammed aggregate piers or Geopiers as they are commonly referred to, the soil is reinforced throughout the influenced area of the structure. This soil reinforcement increases the shear wave velocity within the soil and therefore raises the seismic site class for the design. In our opinion the addition of the geopiers would raise the site classification to a "C".

There is a chance that McDonald's may elect to go to a conventional deep foundation system using timber piles. In order to do this, we will need to do more investigation into the soils at a deeper depth than were obtained in the initial geotechnical investigation. It is my understanding that this is scheduled to be done. Once this is done we will get an accurate site classification to work with.

Item 2: The site class that was listed on the schedule of inspection was a typographical error. It should have been a "C" as on the drawings. This may change if we elect a different support system than was designed.

If you should have any questions regarding this matter or require additional information, please call at your convenience.

Sincerely,

Dale A. Dubois, P.E.

Structural Engineer of Record Seal



## COMcheck Software Version 3.5.0

## **Envelope Compliance Certificate**

#### 90.1 (2004) Standard

Report Date: 10/23/07

Data filename: C:\Program Files\Check\COMcheck\McD's-Portland-ME.cck

#### **Section 1: Project Information**

Project Title: McDonald's Restaurant

Construction Site: 332 St John Street Portland, ME Owner/Agent:

Designer/Contractor: Landry Architects 389 Main Street - 2nd Floor Salem, NH 03079 603-890-6414

#### **Section 2: General Information**

Building Location (for weather data):

Heating Degree Days (base 65 degrees F):

Cooling Degree Days (base 50 degrees F): Building Type for Envelope Requirements:

Project Type:

Vertical Glazing / Wall Area Pct.:

Portland, Maine

7378 1943

Non-Residential New Construction

14%

Activity Type(s)

Floor Area

Common Space Types:Dining Area - Family Restaurant

5408

#### **Section 3: Requirements Checklist**

#### Envelope PASSES: Design 5% better than code

#### Climate-Specific Requirements:

Component Name/Description	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor
Roof 1: All-Wood Joist/Rafter/Truss	5408	0.0	30.0	0.032	0.027
Exterior Wall 1: Wood Frame, Any Spacing	5194	19.0	0.0	0.067	0.089
Window 1: Metal Frame with Thermal Break:Double Pane with Low-E, Clear, Fixed, SHGC 0.63	700			0.540	0.570
Door 1: Glass, Other, SHGC 0.40	42			0.350	0.570
Door 2: Insulated Metal, Swinging	56			0.600	0.700
Floor 1: Slab-On-Grade:Unheated, Horizontal without vertical 4 ft.	320		10.0		

<sup>(</sup>a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.

#### Insulation:

コ 1	<ol> <li>Open-blown or</li> </ol>	poured loose-f	ill insulation has not	t been used in atti	c roof spaces with	n ceiling slope	greater than 3	in 12	2
-----	-----------------------------------	----------------	------------------------	---------------------	--------------------	-----------------	----------------	-------	---

- ☐ 3. Recessed lights, equipment and ducts are not affecting insulation thickness.
- ☐ 5. All exterior insulation is covered with protective material.
- $\hfill \square$  6. Cargo and loading dock doors are equipped with weather seals.

#### **Fenestration and Doors:**

Project Title: McDonald's Restaurant
Data filename: C:\Program Files\Check\COMcheck\McD's-Portland-ME.cck

Report date: 10/23/07

2
☐ 7. Windows and skylights are labeled and certified by the manufacturer for U-factor and SHGC.
8. Fixed windows and skylights unlabeled by the manufacturer have been site labeled using the default U-factor and SHGC.
Other unlabeled vertical fenestration, operable and fixed, that are unlabeled by the manufacturer have been site labeled using the
default U-factor and SHGC. No credit has been given for metal frames with thermal breaks, low-emissivity coatings, gas fillings, or insulating spacers.
Air Leakage and Component Certification:
☐ 10.All joints and penetrations are caulked, gasketed, weather-stripped, or otherwise sealed.
☐ 11.Windows, doors, and skylights certified as meeting leakage requirements.
☐ 12.Component R-values & U-factors labeled as certified.
13. Building entrance doors have a vestibule and equipped with closing devices. Exceptions:
Buildings less than four stories above grade. Building entrances with revolving doors.
Doors that open directly from a space less than 3000 sq. ft. in area.
14. Insulation installed according to manufacturer's instructions, in substantial contact with the surface being insulated, and in a manner that achieves the rated R-value without compressing the insulation.
Section 4: Compliance Statement
Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications and
other calculations submitted with this permit application. The proposed envelope system has been designed to meet the 90.1 (2004) Standard requirements in COMcheck Version 3.5.0 and to comply with the mandatory requirements in the Requirements Checklist.
RICHARD E. LANDRY SP. MG SING THE ST. AN 10/24/07
Name - Title PRINCIPAL PARCHITECT Signature Date



#### 90.1 (2004) Standard

Report Date: 10/23/07

Data filename: C:\Program Files\Check\COMcheck\McD's-Portland-ME.cck

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332 St John Street Portland, ME Owner/Agent:

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<sup>(</sup>a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.

#### Insulation:

□ '-	Open-blown of podred loose-fill insulation has not been used in affic fool spaces with ceiling slope greater than 3 in 12
□ 2.	Wherever vents occur, they are baffled to deflect incoming air above the insulation.
┌ 3.	Recessed lights, equipment and ducts are not affecting insulation thickness.

☐ 5. All exterior insulation is covered with protective material.

☐ 6. Cargo and loading dock doors are equipped with weather seals.

#### **Fenestration and Doors:**

Project Title: McDonald's Restaurant Data filename: C:\Program Files\Check\COMcheck\McD's-Portland-ME.cck

Report date: 10/23/07 Page 1 of 2

<b>□</b> 7.	Windows and skylights are labeled and certified by the manufacturer for U-factor and SHGC.
□ 8.	Fixed windows and skylights unlabeled by the manufacturer have been site labeled using the default U-factor and SHGC.
□ <sup>9.</sup>	Other unlabeled vertical fenestration, operable and fixed, that are unlabeled by the manufacturer have been site labeled using the default U-factor and SHGC. No credit has been given for metal frames with thermal breaks, low-emissivity coatings, gas fillings, or insulating spacers.
A	ir Leakage and Component Certification:
□ 10	All joints and penetrations are caulked, gasketed, weather-stripped, or otherwise sealed.
□ 11	I.Windows, doors, and skylights certified as meeting leakage requirements.
□ 12	2. Component R-values & U-factors labeled as certified.
☐ <sup>13</sup>	B. Building entrance doors have a vestibule and equipped with closing devices.  Exceptions:
	Buildings less than four stories above grade. Building entrances with revolving doors.
	Doors that open directly from a space less than 3000 sq. ft. in area.
☐ <sup>14</sup>	I. Insulation installed according to manufacturer's instructions, in substantial contact with the surface being insulated, and in a manner tha achieves the rated R-value without compressing the insulation.
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	calculations submitted with this permit application. The proposed envelope system has been designed to meet the 90.1 (2004) Standard rements in COM check Version 3.5.0 and to comply with the mandatory requirements in the Requirements Checklist.
Nam	HCHARD E. LANDRY, SR., ALL Signature Date Date



## COMcheck Software Version 3.5.0

## **Envelope Compliance Certificate**

#### 90.1 (2004) Standard

Report Date: 10/23/07

Data filename: C:\Program Files\Check\COMcheck\McD's-Portland-ME.cck

#### **Section 1: Project Information**

Project Title: McDonald's Restaurant

Construction Site: 332 St John Street Portland, ME Owner/Agent:

Designer/Contractor: Landry Architects 389 Main Street - 2nd Floor Salem, NH 03079 603-890-6414

#### **Section 2: General Information**

Building Location (for weather data):

Heating Degree Days (base 65 degrees F): Cooling Degree Days (base 50 degrees F):

Building Type for Envelope Requirements:

Project Type:

Vertical Glazing / Wall Area Pct.:

Portland, Maine

7378

Non-Residential New Construction

14%

Activity Type(s)

Floor Area

Common Space Types: Dining Area - Family Restaurant

5408

#### **Section 3: Requirements Checklist**

### Envelope PASSES: Design 5% better than code.

#### Climate-Specific Requirements:

Component Name/Description	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor
Roof 1: All-Wood Joist/Rafter/Truss	5408	0.0	30.0	0.032	0.027
Exterior Wall 1: Wood Frame, Any Spacing	5194	19.0	0.0	0.067	0.089
Window 1: Metal Frame with Thermal Break:Double Pane with Low-E, Clear, Fixed, SHGC 0.63	700			0.540	0.570
Door 1: Glass, Other, SHGC 0.40	42			0.350	0.570
Door 2: Insulated Metal, Swinging	56			0.600	0.700
Floor 1: Slab-On-Grade:Unheated, Horizontal without vertical 4 ft.	320		10.0		

<sup>(</sup>a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.

#### Insulation:

- 1. Open-blown or poured loose-fill insulation has not been used in attic roof spaces with ceiling slope greater than 3 in 12.
- ☐ 2. Wherever vents occur, they are baffled to deflect incoming air above the insulation.
- ☐ 3. Recessed lights, equipment and ducts are not affecting insulation thickness.
- 1 4. No roof insulation is installed on a suspended ceiling with removable ceiling panels.
- 5. All exterior insulation is covered with protective material.
- ☐ 6. Cargo and loading dock doors are equipped with weather seals.

#### **Fenestration and Doors:**

Project Title: McDonald's Restaurant

Data filename: C:\Program Files\Check\COMcheck\McD's-Portland-ME.cck

Report date: 10/23/07

7. Windows and skylights are labeled and certified by the manufacturer for U-factor and SHGC.	
8. Fixed windows and skylights unlabeled by the manufacturer have been site labeled using the default U-factor and SHGC.	
9. Other unlabeled vertical fenestration, operable and fixed, that are unlabeled by the manufacturer have been site labeled using the default U-factor and SHGC. No credit has been given for metal frames with thermal breaks, low-emissivity coatings, gas fillings, or insulating spacers.	
Air Leakage and Component Certification:	
☐ 10.All joints and penetrations are caulked, gasketed, weather-stripped, or otherwise sealed.	
11. Windows, doors, and skylights certified as meeting leakage requirements.	
12.Component R-values & U-factors labeled as certified.	
13. Building entrance doors have a vestibule and equipped with closing devices. Exceptions:	
Buildings less than four stories above grade. Building entrances with revolving doors.	
Doors that open directly from a space less than 3000 sq. ft. in area.	
14. Insulation installed according to manufacturer's instructions, in substantial contact with the surface being insulated, and in a manner achieves the rated R-value without compressing the insulation.	· tha
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#### 90.1 (2004) Standard

Report Date: 10/23/07

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Portland, Maine

7378 1943

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Building Type for Envelope Requirements:

Project Type: Vertical Glazing / Wall Area Pct.: Portland, Maine 7378

1943

Non-Residential New Construction

14%

Activity Type(s)

Floor Area

Common Space Types:Dining Area - Family Restaurant

5408

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//



Nobis Engineering, Inc. 18 Chenell Drive Concord, NH 03301 (603) 224-4182 tel (603) 224-2507 fax

# Letter of Transmittal

TO:	Mike	Nugent				DATE:	Nover	mber	16, 2007
	C/O -	The City of	Portland Inspec	ctions Di	vision	FILE NO:	5379	0.41	
	389 (	Congress St	reet						
	Portle	and, ME 041	.01						
RE:	McDd	onald's Rest	aurant on St. Jo	ohns Str	eet, Po	rtland, ME			
٧	Ve are	e sending y	ou the followin	g via:	<b>4</b>	Next Day Service	•		U.S. Mail
						Second Day Serv	vice		Hand Delivery
						Certified Mail			Other:
No	<b>)</b> .	Copies	Date	-		Descrip	otion		
1		1	11/14/2007	Respon	se Lett	ter from Dale Duboi	is		
2		5	10/23/2007	COMcheck Reports					
3		3	8/14/2007	HVAC	Plans				
		These are	e Transmitted:	<b>♂</b>		our use	For R		w and Comment
REMA	ARKS	:							
COPY	' TO:	File							
				S	IGNEI	D: 5	e//4	2	2
							Jeff B	jrz, (	E.I.T.



## Certificate of Design Application

ORTLAN		
From Designer:	FIGHMED E. LAN	JORY, SR., AIA - ARCHITECT
Date:	8/14/07	DALE A. DUBETS, PE - STRUCTURAL
Job Name:	THE NEW MLD	ENGINEER ENGINEER
Address of Construction:	332 ST. JOH	N STREET, PORTLAND, MAINE
Constr	2003 International ruction project was designed to the	Building Code  building code criteria listed below:
_	ファイン Use Group Classification	a (s) A2 - ASSEMBLY
	pression system in Accordance with S	Section 903.3.1 of the 2003 IRC 4ES
		arated or non separated (section 302.3)
		equired? (See Section 1802.2) <u>REPORT PROVIDED</u>
Structural Design Calculations YES - Submitted for all	structural menibers (106.1 – 106.1 i)	N/A Live load reduction  Roof live loads (1603.1.2, 1607.11)  SOPSE Roof snow loads (1603.7.3, 1608)
Design Loads on Construction Uniformly distributed floor live loads Floor Area Use		SOPSF Roof snow loads (1603.7.3, 1608)  SOPSF Ground snow load, $P_g$ (1608.2) $SOPSF$ If $P_g > 10$ psf, flat-roof snow load $p_g$
ALL	100PSF	If $Pg > 10$ psf, snow exposure factor, $C_0$
		If $Pg > 10$ psf, snow load importance factor,
		Roof thermal factor, G(1608.4)
Wind loads (1603.1.4, 1609)	5,775	Sloped roof snowload, p.(1608.4)
ASCE 7 Design option utiliz	ed (1509.1.1. 1509.6)	Seismic design category (1616.3)
90MPH Basic wind speed (18		SHEALWALL Basic seismic force resisting system (1617.6.2)  Response modification coefficient, 82 and
I I Building caregory an	nd wind importance Factor,	deflection amplification factor ((1617.6.2)
Wind exposure cates	table 1604.5, 1609.5) = gory (1609.4)	SIMPUFIED Analysis procedure (1616.6, 1617.5)
# 0.18 Internal pressure coeff.	icient (ASCE 7)	16.6 K Design base shear (1617.4, 16175.5.1)
8.3 -32.6 Component and claddi 1912 PSF Main force wind press	ing pressures (1609.1.1, 1509.6.2.2)	Flood loads (1803.1.6, 1612)
Earth design data (1603.1.5, 161		MA Flood Hazard area (1612.3)
ASCE 7 Design option utilize		24'ASC Elevation of structure
Seismic use group ("		Other loads
0.4, 0,1 Spectral response co	refficients, SDs & SD1 (1615.1)	Concentrated loads (1697.4)
<b>B</b> F Site class (16!5.1.5)		Partition loads (1607.5)
		Misc. loads (Table 1607.8, 1607.6.1, 1607.7, 1607.12, 1607.13, 1610, 1611, 2404



### Certificate of Design

Date	•

8/14/07

From:

These plans and / or specifications covering construction work on:

THE NEW MCDONALD'S RESTAURANT 332 ST. JOHN STREET, PURTLAND, MAINE

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



Signature:

Title:

Firm:

LANDRY ARCHITECTS

Address: 389 HAIN STREET, SECOND FLOOR

SALEM, NH 03079

(603) 890-6414

For more information or to download this form and other permit applications visit the Inspections Division on our website at www.portlandmaine.gov



## Accessibility Building Code Certificate

Designer:	RICHARD E. LANDRY, SR., AIA
Address of Project:	332 ST. JOHN STREET
Nature of Project:	NEW MCDONALD'S RESTAURANT

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. Residential Buildings with 4 units or more must conform to the Federal Fair Housing Accessibility Standards. Please provide proof of compliance if TED ARCH

applicable.

CHARD LANDRY No 1051

Title:

Firm:

ORY APCHITECTS

MAIN STREET, SECOND FLOOR

890-6414

For more information or to download this form and other permit applications visit the Inspections Division on our website at www.portlandmaine.gov



# Application for Barrier-Free Permit

State Fire Marshal's Office 52 State House Station Augusta, Maine 04333-0052

> Tel: 207-626-3870 Fax: 207-287-6251





·			
Project Name: <u>Uconaldo</u> 1	Restaurant -	Portland,	
Street Location: 332 St John County:			
·			
New Building:	Renovation:	Change of U	se:
Project Cost: 4850,000	Fee	e (see fee schedule):	20a.00
Design Professional's Name:	State: NH	Zip Code:	03079
Approved for Permit: Dat Comments:	e:	Plan Reviewer:	
LOG# DATE PLANS REVIEW FEE	CHECK#	PLAN REVIEWER DATE I	PERMIT # PERMIT #



#### **Construction Permit Fee Schedule**

Department of Public Safety State Fire Marshal's Office 52 State House Station Augusta, Maine 04333-0052

> Tel: 207-626-3870 Fax: 207-287-6251

Make Check Payable to: "Treasurer, State of Maine"

#### **New Construction**

#### Permit Fee

\$.05/ square foot of occupied space

\$.02/ square foot for bulk storage occupancies

Renovations exceeding 80% of occupied space are considered to be new construction. Public schools, (K-12), follow the renovation fee schedule below.

#### Renovations

Permit Fee	•	Construction Cost
\$25.00	For under	\$10,000.00
\$50.00	From	S10,000.00
	but less than	\$20,000,00
\$75.00	From	\$20,000.00
	but less than	******
		\$50,000.00
\$100.00	From	
	but less than	00,000,001
\$150.00	From	\$100,000.00
	but less than	\$500,000.00
\$200.00	From	
	but less than	\$1,500,000.00
\$250.00	From	
	but less than	\$2,250,000.00
\$350.00	From	\$2,250,000.00
		\$3,000,000.00
\$450.00	From	S3,000,000.00

Title 25 Section \$2450



#### Fire Alarm Narrative

McDonald's St. John Street Portland, Maine

A new addressable, ADA compliant fire alarm system connected to a central station service will be provided with horn / strobe notification appliances, pull stations, duct smoke detectors and waterflow switches as initiating devices. The interface with the central station service will be provided with two dedicated telephone lines for trouble and alarm signals through an automatic dialer and repeater. The fire alarm system will be equipped with battery back-up power with capacity for 60 hours. Automatic detection is provided by duct type smoke detectors, sprinkler flow switches and the main fire protection service along with manual pull station devices at the egress points from the building. The main fire alarm control panel will be located in the front vestibule. A fire alarm "locator light" will be provided and located at the front corner of the building.

#### Sequence of operation

Building

The activation of any fire alarm system pull station, smoke detector, heat detector, water flow switch, supervisory switch or extinguishing system activation with in the building shall be recognized as a "Fire Alarm Condition" by the Fire Alarm Control Panel, which shall initiate the following action:

- 1. Transmit the alarm signal through dedicated telephone lines to a Central Station.
- 2. Simultaneously, the following will occur:
  - Indicate the stricken zone at the main control panel and log the alarm into memory.
  - Sound a code 3 temporal pattern evacuation horn signal as well as a synchronized pattern of flashing signals with the strobe lights.
  - Shut down all roof top air handling equipment 2000 cfm or greater.
  - Resetting of the system shall be possible only from the fire alarm control panel. Until the fire alarm system is reset, the corresponding air handling equipment may not be re-energized.
  - All signals initiated from the above sequence shall log into memory.
- 3. The following conditions shall be recognized as a "Supervisory Alarm" by the Fire Alarm Control Panel:
  - Any wiring break in the SLC communication loop, the NAC circuits or the transmission communication equipment.
  - Any peripheral device failure or maintenance required condition.
- 4. The "Supervisory Alarm" condition shall activate the supervisory sounders at the main control panel.

The fire alarm system will be tested in accordance with NFPA 72. All devices will be tested to ensure proper operation. The installing contractor will provide copies of test certificates as required by NFPA 72.

Engineering Advantage, Inc. 2 Park Street Boston, Massachusetts 02122 617/288-3969 Fax 617/825-8922

somplite pess
Applicant: McDonsldS Restaurant/9/07 Address: 332 St John 8 C-B-L: 065-A-012
Address: 332 St John 8 C-B-L: 065-A-012
CHECK-LISTAGAINSTZONING ORDINANCE
Date-
Zone Location - B-Z
Interior or corner lot-
Proposed UserWork-To Demolish & rebuild McDanlds with A Servage Disposal-  Servage Dispos
Servage Disposal - 5,3414 double Duble
Lot Street Frontage -50 him - WCC OVY 1 410
From Yard-None reg - 18' from The building to The property Stated
dent Abutres. 10 required - wor 10' back Needs to meet smeltendscaping
Front Yard-None (eg-18' from The builty to The property Scaled assist Abutres, 10' required your 10' back Needs to weet smellandscaping to Rear Yard-10' requirement to scale from 7'd" New LAUND" bushes yard-None reg - 20'+ to enter side limb
Projections -
Width of Lot - None Feg
A Charles a led to lopel Rond Archard
Lot Area - 10,000 min - 53,014 given by Applicant
Low Coverage Timpervious Surface - 807 Mtx - 147,41124 Show J4177 4677
Area per Family - A
Off-street Parking - No Franty of park Show -"1/150th very = 35.61 a 36 pg Spaces
Off-street Parking-No Frontyd park Show - 1/150# veg = 35.61 a 36 pg Spaces Loading Bays - N/A 14-35/ Not required - 5,341# my mutial Counties 57 spaces Shown
Site Plan - # 2007 - ONA
Shoreland Zoning/Stream Protection -
Shoreland Zoning/Stream Protection - HA sepan=12 panel 13 - Ime C Flood Plains - Panel 13 - Ime C sellow e brow Mchover The Chimney
ot a conditional use - Does Not Abut a res. Zone Non within 100 of A res USR. TRAFFICE Movement Perintmakes it go to The BOARD
INTTO MOVE Ment Jermit MAKES IT go to the BOAND)

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

7/(/) 7 2007-0114

Application I. D. Number

6/29/2007 Mcdonald's Corporation Application Date Applicant 690 Canton Street, Westwood, MA 02090 **McDonalds Restaurant** Applicant's Mailing Address Project Name/Description 332 - 332 St John St, Portland, Maine Consultant/Agent Address of Proposed Site Applicant Ph: (207) 781-4718 Agent Fax: 065 A012001 Applicant or Agent Daytime Telephone, Fax Assessor's Reference: Chart-Block-Lot Proposed Development (check all that apply): 🗸 New Building Medition 🦳 Change Of Use 🦳 Residential 🦳 Office 📝 Retail 53014 Proposed Building square Feet or # of Units Acreage of Site Zoning **Check Review Required:** Site Plan (major/minor) Zoning Conditional - PB ☐ Subdivision # of lots Amendment to Plan - Board Review Zoning Conditional - ZBA ☐ Historic Preservation ☐ DEP Local Certification Shoreland Amendment to Plan - Staff Review Flood Hazard Site Location Zoning Variance Other After the Fact - Major Stormwater Traffic Movement After the Fact - Minor PAD Review 14-403 Streets Review Date Fees Paid: Site Plan \$400.00 Subdivision **Engineer Review** 7/2/2007 Reviewer Zoning Approval Status: Approved Approved w/Conditions See Attached Approval Date Approval Expiration Extension to Additional Sheets Attached Condition Compliance date signature ■ Not Required **Performance Guarantee** Required\* \* No building permit may be issued until a performance guarantee has been submitted as indicated below Performance Guarantee Accepted date expiration date amount Inspection Fee Paid DEPONTOF BUILDING INSPECTION date CITY OF PORTLAND, ME **Building Permit Issue** date Performance Guarantee Reduced date remaining balance signature Temporary Certificate of Occupancy Conditions date Final Inspection date signature Certificate Of Occupancy date Performance Guarantee Released date signature Defect Guarantee Submitted submitted date amount expiration date Defect Guarantee Released date signature



Nobis Engineering, Inc.

18 Chenell Drive Concord, NH 03301 Tel (603) 224-4182 Fax (603) 224-2507 www.nobisengineering.com

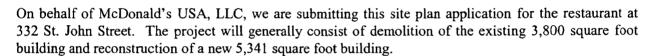
June 26, 2007 File No. 53790.41

Mr. Alex Jaegerman, AICP, Director City of Portland Planning and Development Department 389 Congress Street Portland, Maine 04101

Re: McDonald's USA, LLC Site Plan Application

332 St. John Street

Dear Mr. Jaegerman:



After several meetings with the City of Portland, and after many iterations of site layout, we are proposing a site layout that significantly improves both aesthetics and site access by incorporating the following elements:

- Bringing the store front closer to the street line to encourage pedestrian access
- Adding a new architectural look to the site that will set a standard for the neighborhood
- Adding a double drive thru order station to improve service time and decrease car queues
- Modifying traffic flow around the site for one-way, counterclockwise movement; making a single entrance driveway and a single exit driveway.

While the existing building is fairly new (constructed in 1997), the modular design of the building limits McDonald's ability to remodel the interior in order to conform to newer kitchen layouts and newer Americans with Disabilities Act (ADA) requirements. The new building will allow McDonald's to serve their clients better and stay competitive in the industry.

The current building was constructed to use what was known as Face-to-Face order taking. Six months after the restaurant opened, the system was abandoned and the Owner/Operator was asked by McDonald's Corporation to replace it with the system that operates at this location currently. However, in converting to the current system the Owner/Operator was forced to operate within existing parameters. This forced them to install a less-than-efficient ordering system.

Recent studies have shown that the slowest point in the drive through process is at the point of the ordering station. Ordering delays cause traffic stacked in line behind the ordering station to, likewise, be delayed. Currently, there is one lane for an ordering station which holds up all of the vehicles behind the customer placing the order. New designs and technologies have been developed which implement the



June 26, 2007

concept of additional ordering stations with dedicated lines for ordering. With this configuration, two orders can be placed simultaneously in the same drive up lane. The customer with the shorter order is able to move more quickly to the pick up station and another customer can move forward to place their order. This speeds up the ordering process for the waiting line and allows for fewer stacking spaces to be needed. There will still be a single lane for vehicles to access the two ordering stations and all vehicles will be directed into a single lane, after ordering, to pick up their orders. This configuration will provide for a more efficient drive up ordering procedure resulting in reduced back up and reduced length of stacking queue.

Implementation of this new process will add to McDonald's ability to move the approximately 90 cars they serve during our peak hours (12 to 1 pm, Monday – Friday). The new design provides an additional 2-vehicles in the queue line as measured from the pick-up window to the St. John Street right-of-way (17 car lengths versus the existing 15 car lengths). The proposed configuration also provides stacking for 8 vehicles from the order point to the first parking stall that would be blocked by queued cars. This compares to only 1 (one) car length in the existing configuration.

Since the proposed development is already an established business, McDonald's does not anticipate additional demand on municipal services including water, sewer, and roadway infrastructure. Solid waste will continue to be handled by collection in a central dumpster area and removal by a licensed commercial solid waste hauler.

Storm water runoff will continue to discharge to the municipal storm sewer in the same fashion as the existing condition. In order to maintain the existing storm drainage system on the site, the building was sited approximately 18-feet from the back of the existing City sidewalk. The proposed condition results in a slight increase of impervious area on the site (356 square feet), and there are no reported drainage or flooding issues reported by the Owner/Operator. We do not anticipate requiring approvals from any other state or federal regulatory agencies.

We have included the following items for your review:

- 9 sets of site plans and architectural elevations
- 1 set of reduced plans
- Check for \$600
- Site Plan Application Form
- Site Plan Checklist
- 2 copies of the Storm Water Management Report

Construction will commence upon receiving site plan approval and building/demolition permits for the project. The project will be complete within 90-100 days. We trust that this application package is complete. Please feel free to call with any questions or further comments.

Very truly yours,

Nobis Engineering Inc.

JUN 2 40 2007

RECEIVED

J. Chris Nadeau, P.E.

Associate/Senior Project Manager

City of Portland Planning Division



# Site Plan Application

Department of Planning and Developme Fortund Planning Board

DEPT. OF BUILDING INSPECTION
CITY OF PORTLAND, ME
}

Address of Proposed Development: 332 St. John Street Zone: B-2 Project Name: McDonald's Restaurant Existing Building Size: 3,800 sq. ft. Proposed Building Size: 4,987 sq. ft. Existing Acreage of Site: 53,014 Proposed Acreage of Site: 53,014 sq. ft. Tax Assessor's Chart, Block & Lot: Property Owners Mailing address: Telephone #: McDonald's Corporation 781-461-4718 Chartif Block # Lot# · Attn: Lynn Misiaszek 65 A 12,16 Cell Phone #: 690 Canton Street 774-261-0798 Westwood, MA 02090 Consultant/Agent Contact Name and Applicant's Name/Mailing Address: Telephone #: mailing address, Telephone # and Cell Phone #: J. Chris Nadeau, P.E. Same as owner Nobis Engineering, Inc. See above Cell Phone #: 18 Chenell Drive. Concord, NH 03301 603-224-41 Fee For Service Deposit (all applications) \_ (\$200.00) Proposed Development (check all that apply) X New Building \_\_ Building Addition Change of Use Residential \_\_\_ Office X Retail Manufacturing Warehouse/Distribution X Parking lot Subdivision (\$500.00) + amount of lots (\$25.00 per lot) \$\_ + major site plan fee if applicable Site Location of Development (\$3,000.00) (except for residential projects which shall be \$200.00 per lot Traffic Movement (\$1,000.00) \_Storm water Quality (\$250.00) RECEIVED Section 14-403 Review (\$400.00 + \$25.00 per lot) \_Other\_ Major Development (more than 10,000 sq. ft.) Under 50,000 sq. ft. (\$500.00) JUN 2 9 2007 50,000 - 100,000 sq. ft. (\$1,000.00) Parking Lots over 100 spaces (\$1,000.00) City of Portland \_100,000 - 200,000 sq. ft. (\$2,000.00) Planning Division 200,000 - 300,000 sq. ft. (\$3,000.00) Over 300,000 sq. fr. (\$5,000.00) \_After-the-fact Review (\$1,000.00 + applicable application fee) - Please see next page -

Minne Site Plan Review	
X Less than 10,000 sq. ft. (\$400.00)	
After-the-fact Review (\$1,000.00 + applicable application fee)	
Plas Amendments	·
Plenning Staff Review (\$250.00)	·
Planning Board Review (\$500.00)	
Who billing will be sent to:  McDonald's Corporation	
Attn: Lynn Misiaszek	
690 Canton Street	·
Westwood, MA 02090	

Submittals shall include (7) separate folded packets of the following:

- a. copy of application
- b. cover letter stating the nature of the project
- c. site plan containing the information found in the attached sample plans checklist
- d. 1 set of 11x17 piens

Section 14-522 of the Zoning Ordinance outlines the process which is available on our web site: portlandmajae.gov

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

This application is for site review <u>only</u>; a Building Permit application and associated fees will be required prior to construction.

Signature of Applicant:	Date: 6/18/07
-------------------------	---------------

AREA CONSTRUCTION MGR MCDONALDS USA LLC.



## City of Portland, Maine Site Plan Checklist

#### McDonald's Restaurant, 332 St. John Street.

Project Name, Address of Project

Application Number

Submitted () & Date (b,c)	Item	Required Information Section	n 14-525 <sub>.</sub>
X	(1)	Standard boundary survey (stamped by a registered surveyor, at a scale of not less than 1 inch to 100 feet and including:	1
X	(2)	Name and address of applicant and name of proposed development	a
X	(3)	Scale and north points	b
X	(4)	Boundaries of the site	·c
X	(5)	Total land area of site	ď
X	(6)	Topography - existing and proposed (2 feet intervals or less)	
X	(7)	Plans based on the boundary survey including:	2
X	(8)	Existing soil conditions	2
X	(9)	Location of water courses, marshes, rock outcroppings and wooded areas	ъ
X	(10)	Location, ground floor area and grade elevations of building and other c	
	(-9)	structures existing and proposed, elevation drawings of exterior	A 1
X		facades, and materials to be used	
·	(11)	Approx location of buildings or other structures on parcels abutting the site	d
<del>x</del>	(12)	Location of on-site waste receptacles	e
X	(13)	Public utilities	e
X	(14)	Water and sewer mains	e
x	(15)	Culverts, drains, existing and proposed, showing size and directions of flows	c
X	(16)	Location and dimensions, and ownership of easements, public or private	f
~	()	rights-of-way, both existing and proposed	•
X	(17)	Location and dimensions of on-site pedestrian and vehicular access ways	CF
X	(18)	Parking areas	g
<del></del>	(19)	Loading facilities	g
X	(20)	Design of ingress and egress of vehicles to and from the site onto public streets	g g
X	(21)	Curb and sidewalks	
X	(22)	Landscape plan showing:	g h
x	(23)	Location of existing proposed vegetation	h
X	(24)	Type of vegetation	h
X	(25)	Quantity of plantings	h
X	(26)	Size of proposed landscaping	h
X	(27)	Existing areas to be preserved	h
X	(28)	Preservation measures to be employed	h
X	(29)	Details of planting and preservation specifications	h
X	(30)	Location and dimensions of all fencing and screening	i
X	(31)	Location and intensity of outdoor lighting system	i
x	(32)	Location of fire hydrants, existing and proposed	k
X	(33)	Written statement	c
X	(34)	Description of proposed uses to be located on site	ĭ
X	(35)	Quantity and type of residential, if any	į
X	(36)	Total land area of the site	b2
X	(37)	Total floor area and ground coverage of each proposed building and structure	b2
X	(38)	General summery of existing and proposed easements or other burdens	c3
X	(39)	Method of handling solid waste disposal	4
X	(40)	Applicant's evaluation of availability of off-site public facilities, including sewer, water	5
	` '	and streets	~ .

#### **MEMORANDUM**

To: FILE

From: Marge Schmuckal Dept: Zoning

Subject: Application ID: 2007-0114

Date: 8/21/2007

The plans received 8/8/07 along with a written response show that the developer met with Jeff Tarling, the City Arborist, and agreed to the front landscaping as required by ordinance.

Zoning is approved with the condition that the plans be followed as approved and that separate permits are required for any signage and lit awnings.

Marge Schmuckal Zoning Administrator

#### **MEMORANDUM**

To:

FILE

From:

Marge Schmuckal

Dept: Zoning

Subject: Application ID: 2007-0114

Date:

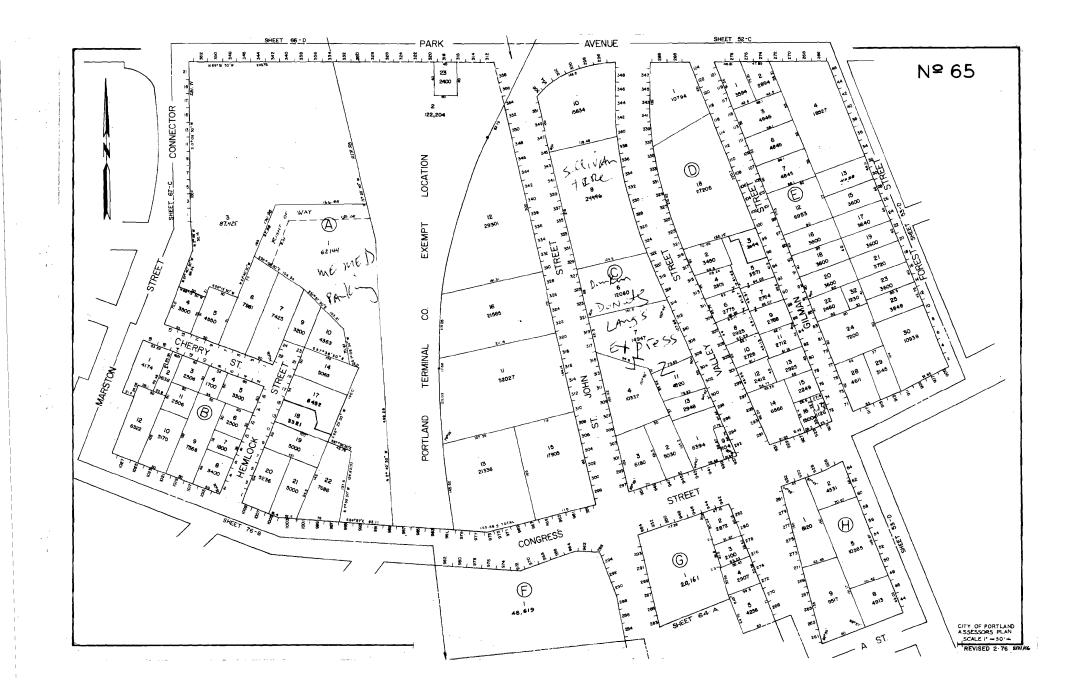
7/11/2007

The use and setbacks, and impervious surface and parking requirements of the B-2 Zone are being met. This restaurant use with a drive-thru would not require a conditional use approval because the site does not abut a residential zone nor is it within 100' of a residential use.

There is no required front yard. However, the plans scale 18' from the front property line to the building. Section 14-185 states that where the front yard setback exceeds 10 feet a continuous, attractive, and pedestrian scaled edge treatment shall be constructed along the street consisting of street trees spaced at not more than 15' on center and a combination of landscaping of no less than 4' in depth; and ornamental brick or stone walls; and/or ornamental fencing. The site shall otherwise meet the requirements of article V, site plan.

Separate permits shall be required for new signage. There may be a zoning question as to signage relating to a lit vellow ebrow over the chimney. More information would be needed before a final decision is rendered.

Marge Schmuckal Zoning Administrator



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average depth. A "developed lot" means a lot on which a principal structure has been erected.

Building additions are not required to meet this maximum setback.

c. Maximum front yard in B-2b zone (Off-peninsula):
None, except that the front yard setback shall
not exceed the average depth of the front yards
of the closest developed lots on either side of
the lot. A developed lot means a lot on which a
principal structure has been erected.

Where the front yard setback exceeds ten (10) feet, however, a continuous, attractive, and pedestrian scaled edge treatment shall be constructed along the street(s) consisting of street trees spaced at not more than fifteen (15) feet on center, (which otherwise meet the requirements of city arborist) and a combination of the following:

- i. Landscaping of no less than four (4) feet in depth; and
- ii. Ornamental brick or stone walls; and/or
- iii. Ornamental fencing.

The site shall otherwise meet the requirements of article V (Site Plan).

### 2. Rear yard:

- a. Principal structures: Ten (10) feet. Where a rear yard abuts a residence zone or first floor residential use, twenty (20) feet is required.
- b. Accessory structures: Five (5) feet.
- 3. Side yard:

Supplement 2004-1 14-215



To:

Marge Schmuckal

DPW

Jim Carmody Capt. Greg Cass Jeff Tarling

From: Shukria Wiar

**Date:** August 8, 2007

Revised Site Plans submitted for the following project:

**Application ID #: 2007-0114** 

Project Name: McDonald's

Project Address: St. John Street

Comments needed by: August 22, 2007





Nobis Engineering, Inc.

18 Chenell Drive Concord, NH 03301 Tel (603) 224-4182 Fax (603) 224-2507 www.nobisengineering.com

August 2, 2007 File No. 53790.41

Ms. Shukria Wiar City Planner City of Portland 389 Congress Street Portland, Maine 04101

Re: Site Plan Review Comments

332 St. John Street, McDonald's & Drive-through Application # 2007-0114; CBL 065 A012001

Dear Ms. Wiar:

On behalf of the Applicant, McDonald's USA, LLC, we are submitting revised site plans for the above referenced project in response to comments received from the City of Portland (planning, engineering, fire department, etc.) in a letter dated July 23, 2007.

We have attached seven full sized sets and one reduced set of revised plans depicting the changes. Following is a discussion of the comments:

#### Landscaping:

- a. The existing landscaping (consisting of small shrubs, decorative grasses, hostas, miscellaneous trees, and other ground cover plantings) along the frontage and outer edges of the property has been added to the landscape plan and will remain in-place after reconstruction. Any existing plants damaged during construction will be replaced by the contractor in like kind. Crosswalks have been added to the site plan across the main entrance and exit, as well as within the parking lot area to direct pedestrians to building entrances.
- b. The owner/operator of the restaurant, George Lydick, met with city arborist Jeff Tarling on site, on Tuesday July 31, 2007, to discuss the location of additional landscape islands on the west side of the site. Two landscape islands have been added, with plantings, along the western edge of the parking lot.
- c. The existing landscaping along the frontage and outer edges of the property has been added to the landscape plan and will remain in-place after reconstruction. One tree has been added to the northern corner of the site, in addition to the two new landscape islands along the western edge, per city arborist Jeff Tarling comments.
- d. The existing site has a 6' high wooden stockade fence around the compactor. The stockade fence will remain in-place around the Compactor. The plans have been fevised to show the two different fence types that will exist (chain link and wooden stockade).
- e. As requested, George Lydick contacted the trails coordinator and has not heard back from her.

August 2, 2007

# Parking Width:

- a. The driveway entrance proposed is the same width as the existing driveway entrance. The entrance width has been maintained so that large trucks, buses, and RVs can quickly and safely turn off of St. John Street and into the parking lot. The flush concrete island on the ingress/entrance to the site will remain in-place. The exit width has been reduced to 24', to allow for two 12' wide turning lanes.
- b. Mike Farmer at the Department of Public Works was contacted about the Sidewalk Policy standards and it was decided that the public sidewalk did not need to be replaced.

#### Architectural Design:

The windows on the Left Elevation have been extended as noted in the comments letter. Revised architectural elevations have been included with this submittal.

# Lighting Plan:

The lighting plan has been revised based on City Standards.

# Comments from DPW:

- 1. Stormwater Management
  - a. No Response needed.
- 2. Erosion and Sediment Control
  - a. An Erosion and Sediment Control Plan has been included in the revised plan set. Erosion and sediment control details have been added to the detail sheets as well.

#### 3. General

- a. A detail showing the wye connection at the intersection of the new storm drain and the existing storm drain has been included on Sheet SD3.
- b. A note requiring the installation of a casco trap in all new catch basins has been added to Sheet C2, Grading Plan. A standard detail of a casco trap has been added to Sheet SD3.
- c. The bituminous driveway and parking pavement detail has been revised to match the City's Technical and Design Standards and Guidelines.
- d. A pavement repair detail has been provided, on Sheet SD3, for the section of St. John Street that will be removed during installation of utilities.
- e. The concrete sidewalk detail has been revised to comply with the City's standards.
- f. The notes in the granite curb detail have been revised to be consistent.
- g. The labels on the handicap ramp detail have been revised to show concrete sidewalks.
- h. The 5 parking spaces in question have been angled at 60 degrees and the aisle width has been increased to 18' to allow for adequate maneuvering of passenger vehicles in and out of the spaces.
- i. The surveyor has been contacted with regards to this comment. No answer has been provided at the time of this letter.

### **Zoning Comments:**

- a. No response required.
- b. The existing landscaping to remain in-place, along the front of the property (St. John Street), will satisfy the requirements/comments.
- c. A separate application has been submitted to the zoning administration for the new/proposed signage at the site.

August 2, 2007

# Fire Department Comments:

- a. The site plan checklist has been completed and is included with this submittal.
- b. A note referencing the location of the nearest fire hydrant has been added to the utility plan.

We trust these revisions address the City's comments. Please feel free to call with any questions or further comments.

Very truly yours,

Nobis Engineering Inc.

J. Chris Nadeau, P.E.

Associate/Sr. Project Manager

cc: Lynn Misiaszek – McDonald's USA, LLC



Strengthening a Remarkable City, Building a Community for Life . www.portlandmaine.gov

Lee Urban-Director of Planning and Development Marge Schmuckal, Zoning Administrator

# **Meeting Information**

DATE: 2/15/07
LOCATION: 332 St John ST
PEOPLE PRESENT: Mr Rydick J. NAdeau PE - Cynn Barbara B - Alex - Bill N-Marge-Conne (MISA gir Misiasze)
Banbara B - Alex - Bill N-Marge-Conne Misiaszek
ZONE: B-2
965? 1986-87 - first McDonselds in Maine - 24056 Femily
New _ 43 / 9 [ 1419 ] 1
sign vs Anch. element for the repeditive Arch- traffic will Need to review the Gouble Drive-Thru, permit ? Not sure
- MONC I'V MULLINAMITO WORLD I WAS INAI IN A A A CALCULAR AND A
- using current curb Cuts 1 2 11 the transitional
-8090 impervious ratio required [- Permitteblise Not Abut use - Does Not Abut use - Does Not Abut use - A resident AL Zone
- play place next > McD, requires sprintles oruse
Please note: this meeting is not an pre-approval of any ordinances. No project can be approved without
going thru the appropriate reviews. This meeting is only to outline the City processes to go through based on the information given at this meeting. Any changes to that information may change the process

requirements. Please check ordinances that are on-line for further information at www.portlandmaine.gov.

This page contains a detailed description of the Parcel ID you selected. Press the New Search button at the bottom of the screen to submit a new query.

# **Current Owner Information**

Card Number

1 of 1

Parcel ID

065 A012001 332 ST JOHN ST

Location Land Use

RETAIL & PERSONAL SERVICE

Owner Address

MCDONALD'S CORPORATION

PO BOX 10048

PORTLAND ME 04104

Book/Page

Legal

65-A-12

ST JOHN ST 332-354

29301 SF

Current Assessed Valuation

Land \$481,600 Building \$496,100

Total \$977,700

# **Building Information**

Bldg #

Year Built 1964

# Units 1

Bldg Sq. Ft. 3669

Identical Units

B-L Jore

Total Acres 0.673

Total Buildings Sq. Ft. Structure Type 3669

FAST FOOD

Building Name MCDONALDS

# Exterior/Interior Information

Section

Levels 01/01

Size 3669 Use FAST FOOD

Height Walls FRAME Heating HOT AIR NONE NONE NONE NONE NONE NONE

NONE

A/C CENTRAL NONE NONE NONE NONE NONE NONE

NONE

# **Building Other Features**

Structure Type

Identical Units

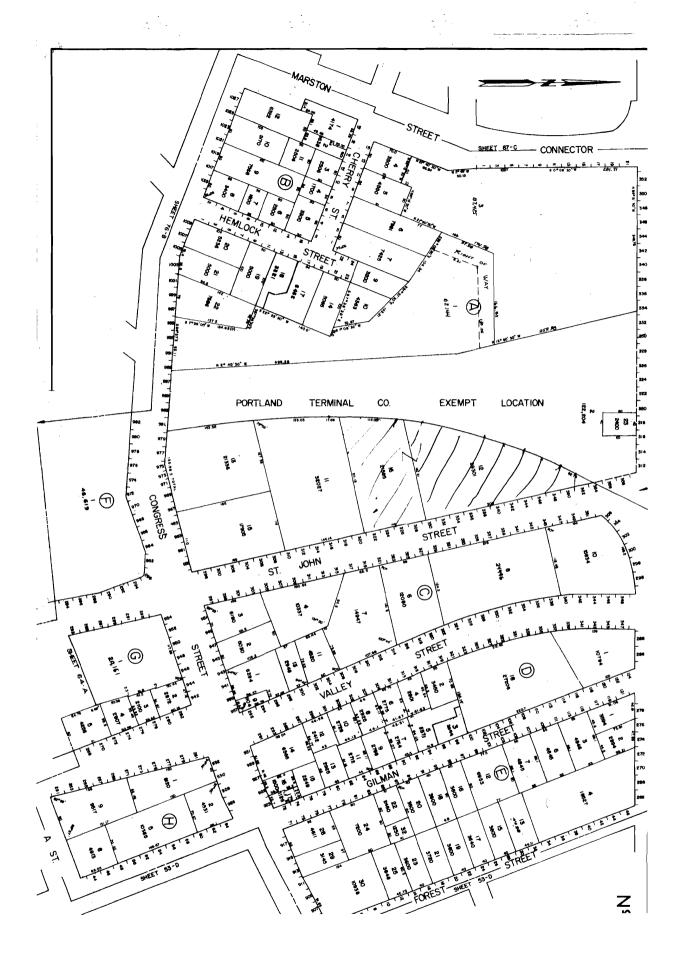
# Yard Improvements

Year Built 1974 1974

Structure Type ASPHALT PARKING GARAGE FRAME

Length or Sq. Ft. 15000 400

# Unita 1



#### **SECTION 15300**

#### **FIRE PROTECTION**

#### PART 1 - GENERAL

#### 1.1 GENERAL REQUIREMENTS

- A. Examine all drawings and all other Sections of the Specifications for requirements affecting this Section. Include in and make part of this Section all work related under other Sections and required on all Drawings and Documents.
- B. Before submitting bid, visit the site and examine conditions under which the work has to be performed. Report to the Owner any conditions which might adversely affect the work to be performed.
- C. Documents affecting work of this Section include, but are not necessarily limited to, General Conditions, Supplementary Conditions, and Sections in Division 1 of this Specification. When a conflict occurs between Section 15300 and the aforementioned sections, the most stringent requirements shall apply.
- D. Coordinate work with that of all trades affecting or affected by work of this Section. Cooperate with such trades to assure the steady progress of all work under the Contract.
- E. All references to "this Contractor" in this SECTION shall mean the Fire Protection Contractor and all Subcontractors hired by and/or responsible to him.

#### 1.2 FIRE PROTECTION SYSTEM DESIGN/BUILD GUIDELINES

- A. This Contractor shall provide engineered drawings, stamped by a Maine licensed professional Fire Protection engineer, clearly depicting the systems the Contractor proposes to install. The systems shall be complete in all respects and shall be designed to include the following major systems and components.
  - 1. A complete wet-pipe sprinkler system, including connection to water service, backflow preventer, alarm riser, all distribution piping with supports and bracing, sprinkler heads and testing devices.
- B. Calculated sprinkler system shall include a demand of 250 gpm for hose streams. The hydraulics of the system should be calculated on the basis of the available water supply. The system water demand shall be 10 psi less than the available water supply at the demand flow, the margin of safety required, allowing for future deterioration of the water supply.

#### 1.3 SCOPE OF WORK

- A. Work in this Section of the Specifications includes all labor, materials, equipment and services necessary to calculate, design, engineer, furnish completely and install all FIRE PROTECTION SYSTEMS, as specified herein and, in general, as follows:
  - 1. Provide complete, stamped, engineered design drawings showing all system components and complete hydraulic calculations for the entire wet-pipe sprinkler system.
  - 2. Monitor, pressure and flow switches.

- 3. Valve tags, valve charts, nameplates, pipe identification and record drawings.
- 4. Access panels for all valves, drains and equipment.
- 5. Testing and guarantees.
- 6. All hangers, seismic restraints, inserts, sleeves, anchors, guides, strainers, gauges, thermometers, plus all related accessories required for a complete installation for the system, as specified herein and/or indicated on the drawings.
- 7. All operating and maintenance manuals, certification letters and Certificates of Approval.
- 8. All supplementary steel for piping and equipment supports.
- 9. Working drawings of the actual fire protection system installation and hydraulic calculations.
- 10. Pre-bid site visit to determine conditions and extent of work.
- 11. All required Design and Construction Affidavits required by the Portland Building Department.

### 1.4 WORK NOT INCLUDED

- A. The following related work shall be performed by the designated trades and under the listed SECTION:
  - 1. Cutting and patching shall be the responsibility of the General Contractor and shall be performed by trades specializing in the specific surfaces affected, i.e., carpentry, masonry, metals, etc.
  - 2. Excavation and backfill shall be performed by the General Contractor.
  - 3. Wiring of equipment requiring power and furnished by the Fire Protection Contractor and starting devices for all motors incidental to the Fire Protection Systems shall be furnished and installed by the Electrical Contractor:
  - 4. Painting of piping, fittings, coverings, hangers, supports and all equipment not specifically specified to be painted by the Painting Contractor.
  - 5. Electricity and water for all tests and temporary operation of Fire Protection Systems: GENERAL CONDITIONS AND SUPPLEMENTARY GENERAL CONDITIONS.
  - 6. Equipment access panels for Fire Protection equipment shall be furnished by the Fire Protection Contractor and installed by the General Contractor.

# 1.5 INTENT

A. All work shall be in accordance with the arrangement, details and locations, as indicated on the Architectural Drawings, Reference Drawings, these Specifications and any supplemental addenda, bulletins or drawings issued by the Architect. Final arrangement of piping and equipment shall suit field conditions. Install all necessary fittings and equipment offsets required to meet job conditions. Work interfering with the work of another trade, shall be removed and reinstalled when so directed by the Architect. Discrepancies and questionable points shall be immediately reported to the Architect for clarification.

### 1.6 WORKING PLANS, FLOW TEST AND HYDRAULIC CALCULATIONS

A. General performance criteria for the fire protection systems has been developed in these Specifications. This Contractor is required to have a valid Maine Sprinkler Contractor's license and is responsible to engage a qualified Maine registered fire protection engineer to prepare and be responsible for the design of the fire protection systems. The design of the fire protection systems and supporting calculations shall be submitted to the Architect for review, but solely for the purpose of reviewing relative to the criteria established herein. The review of the Contractor's engineer's design shall not, in any manner or respect, relieve the Contractor of full responsibility for the final design of the fire protection systems. It requires performance of design work, preparation and submission of drawings, procurements of approvals and provision of complete functional system of automatic sprinklers.

- B. Within fifteen (15) days after the date of the Notice to Proceed and before commencement of any work, submit and obtain all approvals of all plans and calculations to the Owner's Insurance Underwriter, prior to submittal to the Agency having jurisdiction, including the Fire Department, for final approval. Furnish copies of approved working plans to the Architect for his approval promptly after obtaining other approvals.
- C. Plans must show the following information in suitable fashion:
  - 1. Name of Owner.
  - 2. Names and addresses of Architect and Engineers.
  - 3. Location of project.
  - 4. North point.
  - 5. Drawing scale.
  - 6. Plans of all floors, partitions, exits, beams, lights, unit heater, diffusers, registers, duct over our feet (4') in width and ceiling heights.
  - 7. Location, name, type, temperature rating and make of sprinkler heads including dimensioning of heads.
  - 8. Structural beams and penetrations.
  - 9. Source of water supply, size of pipe, and pressure available.
  - 10. Number of sprinklers on each riser, area of each room and total number of rooms in the building, including location and size of risers, mains, branches, and most remote area.
  - 11. Cutting and lengths of pipe.
  - 12. Make, type, model, size and location of sprinkler water flow alarms and tamper switches.
  - 13. Type of hangers, inserts and sleeves.
  - 14. Inspector's test connections, drain pipes and test pipes.
  - 15. Crosses, riser nipples and size.
  - 16. Control gate, checks and flushing connections.
  - 17. Riser diagram of entire schematic system indicating all alarms, valves, tamper switches, floor control valves, mains, risers, source of supply, quantity of sprinklers in each fire area, on each floor, water pressure at each floor and height of each floor with regard to water supply source.
  - 18. Symbol list and abbreviations for entire Fire Protection System.
- D. This Contractor shall be responsible to develop complete hydraulic calculations for the Fire Protection Systems as shown on his Drawings. This Contractor shall obtain flow tests for the building and base his calculations on these flow test results. Flow test results and hydraulic calculations are to be submitted to the Architect, the Owner's Insuring Agent and the Fire Department for review. A ten (10) psi "cushion" is the minimum required for the design of the piping system between the maximum GPM demand and the available water pressure.

- E. This Contractor is responsible to carefully coordinate the extent of combustible materials in all floors, in soffits and in other areas of the building. All areas deemed by Code and the Fire Department of having concealed combustible construction shall be protected with sprinklers.
- F. Sprinkler Contractor shall give special attention to the spacing, location, position and clearances of sprinkler heads required for proper coverage of all areas specified herein with respect to all electrical equipment, surface mounted and recessed lighting fixtures. The Sprinkler Contractor shall review electrical drawing for a complete understanding as to the dimension, depth and location of all electrical fixtures and equipment (switchgear, transformers, panels, surface mounted fluorescent and incandescent lighting fixtures, recessed halide and fluorescent lighting fixtures, etc.).
- G. Sprinkler heads located in areas with finished ceiling tiles shall be considered satisfactory if they are within six inches (6") either way from exact center of the ceiling tile in the short direction (24") and with one (1) foot either way of exact center of the ceiling tile in the long direction (48") and shall be located as such on the Reflected Ceiling Plans and Sprinkler Shop Drawings.
- H. Guards shall be installed on all sprinkler heads in areas where they are located 10'-0" or less above the floor and are in storage or work areas.

# 1.7 CODES, REGULATIONS AND STANDARDS

- A. All work shall be installed in conformance to the governing Codes, Regulations and Ordinances. It shall be the responsibility of this Contractor to familiarize himself with all governing Codes, Regulations and ordinances.
- B. All workmanship, methods and materials shall meet the highest standards of the trade and, in general, shall conform to the standards of the following associations:

American National Standards Institute (ANSI)
American Society of Mechanical Engineers (ASME)
National Board of Fire Underwriters (NBFU)
National Fire Protection Association (NFPA)
National Electrical Manufacturers Association (NEMA)
Occupational Safety and Health Act (OSHA)
Underwriters' Laboratories (U.L.)
American Society of Testing Materials (ASTM)
Maine State Building Code
Town of Portland Regulations and Ordinances

# 1.8 EXCHANGE OF INFORMATION AND COORDINATION

A. All systems and equipment covered by this Section of the Specifications shall not be installed in congested and problem areas without first coordinating the installation of same with the other trades and the General Contractor. This Contractor shall, at his own expense, relocate all equipment installed in congested or problem areas should they interfere with the proper installation of the equipment to be installed by other trades and by the General Contractor.

- B. Particular attention shall be directed to the coordination of Systems with all equipment of other trades installed in the ceiling areas. Coordinate, with the other trades, the elevations of all equipment in hung ceiling areas to insure adequate space for the installation of fixtures before said equipment is installed.
- C. Furnish to the General Contractor and all other Contractors all information relative to the portion of the installation specified in this Section that will affect them, sufficiently in advance, so that they may plan their work and installations accordingly.
- D. In the case of failure on the part of this Contractor to give proper information, as indicated above, sufficiently in advance, this Contractor will pay for all backcharges incurred by the General Contractor and other Contractors for the modification and/or relocation of any portion of the work already performed by them in conjunction with this Contract due to this Contractor's delay or for having given incorrect information.
- E. Obtain from the other trades, all information relative to the work covered by this Section of the Specifications, which this Contractor is to execute in conjunction with the installation of their respective equipment.
- F. In the event that conflicts, if any, cannot be settled rapidly and amicably between the affected trades with work proceeding in a workmanlike manner, then the Architect shall decide which work is to be relocated and his judgement shall be final and binding.

#### 1.9 WORKMANSHIP

A. The entire work provided in this Specification shall be constructed and finished, in every respect, in a workmanlike and substantial manner. It is not intended that the Specifications define each item, but this Contractor shall furnish and install all such parts as may be necessary to complete the work in accordance with the best trade practice and to the satisfaction of the Architect and the Owner. The Owner shall have the right to reject any part of the work in case the workmanship is not of satisfactory quality and this Contractor shall replace same with acceptable work at his own expense.

#### 1.10 SITE INVESTIGATION

A. It shall be the responsibility of the Bidders to acquaint themselves with the available information, before submitting their bid. Bidders must visit the site and acquaint themselves with the existing conditions and shall study all Architectural, Structural, Mechanical and Electrical Drawings, as well as the Specifications. The Bidders shall fully inform themselves of all local and state Code requirements. Extra compensation will not be given for obvious conflictions apparent at the time of the start of the project.

### 1.11 TAXES AND INSURANCE

A. This Contractor shall include in his bid, applicable federal, state and local taxes and the premiums of the insurance required by the General Conditions of the Contract.

# 1.12 FEES, PERMITS AND INSPECTIONS

A. This Contractor shall obtain and pay for all the permits required for this Section of the work. He shall also obtain and pay for all the inspections and tests required. Defects discovered in work, materials and/or equipment shall be replaced at no cost to the Owner, and the inspection and test shall be repeated. When work is completed, this Contractor shall furnish a Certificate of Inspection and Approval, to the Owner, before final payment of the Contract will be allowed.

### 1.13 CONTRACT COST BREAKDOWN

- A. At the start of construction, submit a breakdown of material and labor costs to aid the Architect in determining the value of the work installed, as the job progresses. The cost breakdown shall itemize categories of materials or portions of systems, as may be the case, to place a value on the work as it is installed.
- B. No requisitions will be paid until after the breakdown is delivered to the Architect.

# 1.14 GUARANTEE

- A. Unless otherwise noted, all materials, items of equipment and workmanship furnished under this Section shall carry an unconditional warranty against all defects in material and workmanship for a period of not less than one (1) year from the date of final acceptance. Any fault due to defective or improper material or workmanship which may develop within that period, shall be made good, forthwith, by and at the expense of this Contractor, including all other damage done to areas, materials and other systems resulting from this failure.
- B. This Contractor shall guarantee that all elements of the Systems are of sufficient capacity to meet the specified performance requirements as set forth herein or as indicated.
- C. Upon receipt of notice from the Owner of failure of any part of the Systems during the guarantee period, the affected part or parts shall be promptly replaced by this Contractor, at no charge to the Owner.
- D. This Contractor shall furnish, before the final payment is made, a written guarantee covering the above requirements.

# 1.15 MATERIALS

- A. Materials shall be the best of their respective kinds and in full accord with the most modern mechanical construction. All materials shall be new.
- B. All materials necessary to make the installation complete in every detail shall be furnished and installed under this Contract, whether or not specifically noted herein.
- C. It is the intent of the Specifications that one manufacturer be selected, not a combination, for any particular classification of materials.

D. Where materials, equipment, apparatus or other products are specified by manufacturer, brand name, type or catalog number, such designation is to establish the standard of desired quality and style and shall be the basis of the bid.

#### 1.16 MATERIALS AND EQUIPMENT HANDLING

A. This Contractor shall do all handling of his materials and equipment and the resulting cleanup, at his expense, in a safe and satisfactory manner. Special attention shall be paid to the protection of life and property and the equipment or apparatus handled, and any corresponding damages shall be replaced, repaired or paid for by this Contractor, as approved by the Architect. This Contractor shall provide all rigging, hoisting and staging required to complete the work of this Section, unless specifically noted otherwise.

### 1.17 MAINTENANCE AND PROTECTION OF MATERIALS

- A. This Contractor shall be responsible for the maintenance and protection, from loss or damage of all causes, of all equipment, materials and tools supplied by him and stored or installed on the job site, until final acceptance of the project by the Owner.
- B. This Contractor shall store his materials and equipment in the location designated by the Owner and maintain the storage area in a safe condition.
- C. This Contractor shall clean, patch and repair any material and finishes of the building or its contents damaged during the execution of this Contract.

### 1.18 SHOP DRAWINGS AND MATERIAL SCHEDULE

- A. Submit complete Installation Drawings and component submittals in accordance with provisions of the General Conditions, Supplementary General Conditions, Special Conditions and General Requirements.
- B. Within 15 days after the date of Notice to Proceed and before purchasing any materials or equipment, submit to the Architect for approval, submit complete, stamped, engineered drawings clearly depicting all piping, components and systems proposed to fulfill the work of this Section. After the plans have been received and approved by the Architect, submit complete component submittals of all equipment and materials. Do not order any material or equipment until approval has been obtained from the Architect.
- C. The approval of equipment and materials does not relieve this Contractor from the responsibility of Shop Drawings errors in details, sizes, quantities and dimensions which deviate from the Specifications and/or job conditions as they exist.
- D. If apparatus or materials are substituted by this Contractor for those specified, and such substitution necessitates changes in any mechanical or electrical equipment, or alteration to connections, piping, supports, or construction, same shall be provided. This Contractor is to assume the cost and entire responsibility thereof. The Architect's permission to make such a substitution shall not relieve this Contractor from full responsibility for the work.

E. Changes to work already performed, made necessary by delays in obtaining approvals, are the responsibility of this Contractor.

# 1.19 OPERATING INSTRUCTIONS AND MAINTENANCE MANUALS

- A. Provide operating instructions to the Owner's designated representative, with respect to operating and maintenance procedures, for all equipment and systems installed. The cost of up to eight (8) hours of instruction shall be included in the Contract Price.
- B. At the completion of the project, turn over to the Architect, three (3) complete manuals containing the following:
  - 1. Complete shop drawings of all equipment.
  - 2. Operation description of all Systems.
  - 3. Names, addresses and telephone numbers of all suppliers of the products, materials, equipment and Systems.
  - 4. Guarantees on all products, materials and equipment.
  - 5. Preventive maintenance instructions for all Systems.
  - Spare parts list of all System components.
- C. Each manual shall be typewritten and bound under one (1) hard cover and will be reviewed by the Architect. The manuals shall be clearly and permanently identified on the cover with the name of the project.
- D. Upon completion of the instructions, this Contractor shall obtain a letter of acceptance of the instructions as being complete from the Owner. Submit a copy of said letter to the Architect.

### 1.20 CLEANING OF SYSTEMS

- A. Before the Systems are accepted, all equipment shall be thoroughly cleaned, so that no dirt, dust or other foreign matter will be deposited and be detrimental to the operation of the Systems.
- B. After the installation is complete, equipment with factory finished surfaces shall be cleaned and damaged or scratched spots shall be touched up with the same type and color paint applied at the factory.
- C. All equipment that is to receive finish paint by the Painting Contractor, shall be cleaned by this Contractor and left ready to have surfaces prepared to receive paint.

# 1.21 RUBBISH REMOVAL

A. At the completion of the work, or when ordered by the General Contractor or the Architect, this Contractor shall remove from the property, all the rubbish or waste material belonging to him. Keep the job site free from accumulation of waste material and rubbish; premises must be maintained in a clean condition.

#### 1.22 TEMPORARY STRUCTURES

A. This Contractor shall provide, on the premises and where directed by the Architect,

shall maintain in good condition, and shall remove when directed, suitable and substantial watertight sheds in which he shall store all his materials and equipment.

### 1.23 TEMPORARY SERVICES

A. All water, electricity, fire protection and sanitary facilities required for safe and efficient construction during normal working hours shall be furnished in accordance with the General Requirements.

#### **1.24 TESTS**

- A. Furnish all labor, materials, instruments, supplies and services and bear all cost for the accomplishment of the tests herein specified. Correct all defects appearing under test, repeat the tests until no defects are disclosed and leave the equipment clean and ready for use.
- B. Perform any tests, other than herein specified, which may be required by legal Authorities or by Agencies to whose requirements this work is to conform.
- C. Dispose of test water and wastes after tests are complete, in a manner satisfactory to the Architect and in accordance with governing regulations.

### 1.25 EQUIPMENT ACCESS REQUIREMENTS

- A. All work shall be installed so that all parts requiring inspection, operation, maintenance and repair are readily accessible.
- B. Furnish access panels in walls and ceilings as required to permit access for adjustment, removal and the replacement and servicing of all equipment, and all other items requiring maintenance and adjustments. Access panels shall be installed by the General Contractor.
- C. Coordinate the exact location of access panels in all finished spaces with the Architect.

#### 1.26 MOTOR CHARACTERISTICS

- A. Unless otherwise indicated, motors for equipment specified under this Section shall be furnished and installed by the Fire Protection Contractor and shall be as follows, unless noted otherwise:
  - 1. Motors 1/3 HP and smaller shall be wound for 120 volts, single phase, 60 cycle AC service.
- B. Unless otherwise specified, all motor starters shall be furnished and installed by the Electrical Contractor.

# 1.27 WIRING DIAGRAMS

A. This Contractor shall furnish wiring diagrams for all equipment furnished under this

Section for which wiring is to be installed by the Electrical Contractor.

### 1.28 PROCEDURE FOR TESTING

- A. Partial tests shall be made, as required, by the progress of the work.
- B. All labor, materials, instruments, devices and power required for testing shall be furnished by this Contractor. All tests shall be performed in the presence and to the satisfaction of the Architect and such other parties as may have legal jurisdiction.
- C. Repair, or if directed by the Architect, replace all defective work with new work without extra charge to the Contract. Repeat tests as directed until all work is proven to meet the requirements specified herein.
- D. Restore to its finished condition any work or materials disturbed by tests.
- E. This Contractor shall be responsible for removing all temporary piping connections required for tests and dispose of test water and wastes after tests in a manner satisfactory to the Architect.
- F. This Contractor shall make hydrostatic, pneumatic and operational tests on all fire protection equipment in accordance with standards of the National Board of Fire Underwriters and as required by the NFPA.
- G. Fire Protection Systems:
  - 1. Upon completion of the sprinkler system piping, this Contractor shall inspect and test each system in the presence of the Owner's representative and the Fire Chief.
  - 2. The complete testing procedure for the systems shall be in accordance with the requirements stated in the National Fire Protection Association's respective pamphlet for each system, but not less than the procedures specified herein.
  - 3. In general, the Fire Protection Systems shall be tested with water to a hydrostatic pressure of 200 pounds per square inch. This pressure shall be maintained for a minimum of four (4) hours or until the system has been inspected for leaks or defects. If any leaks or defects are detected, they shall be remedied in an approved manner and the System shall be retested in the manner specified herein.
  - 4. This Contractor shall secure all Certificates of Approval from all agencies. Each Certificate shall be delivered to the Architect before final acceptance.

#### PART 2 - PRODUCTS

#### 2.01 INSTALLATION REQUIREMENTS

- A. This Contractor shall comply with all the rules, Codes, ordinances, regulations and requirements of all legally constituted authorities having jurisdiction over the whole or any part of the work herein specified. Regulations supplement this Specification and shall take precedence in any case of conflict.
- B. All equipment and materials furnished in connection with the installation shall be new and furnished in accordance with the requirements of the Standards of the NFPA and they shall be of the best grade and quality of their respective kinds, free

- from natural, manufacturing or construction flaws, defects or irregularities and finish, fittings and workmanship shall be equal to the highest commercial grade.
- C. Castings of all metals of all kinds shall be clean, smooth, close grained, of uniform thickness and free from all defects such as sand holes, blisters or cracks.
- D. Before the installation will be accepted, the Fire Protection Contractor shall have every portion of his work in first-class working condition.
- E. Where installing any of the apparatus herein called for, sufficient clearance shall be allowed to permit the removal and replacing of parts that may require future removal for repairs and replacement.
- F. Exposed piping shall be installed as tight as practical to structural members.
- G. Piping shall be installed neatly and square to all surfaces. Horizontal sidewall sprinklers shall be installed as tight to beams and ceilings as the sprinkler listing will allow with reference to the existence of beams.

#### 2.02 ACCESS PANELS

- A. Furnish access panels for installation by the General Contractor in walls and as required to permit access for adjustment, removal and replacement and servicing of all equipment such as inspector's tests and all other items requiring maintenance and adjustment.
- B. All access panels shall be located in closets, storage rooms and/or other non-public areas, in a workmanlike manner, positioned so that the junction can be easily reached, and the size shall be sufficient for this purpose (minimum 16" x 16"). When access panels are required in corridors or other public areas, they shall be located as directed by the Architect.
- C. Access panels shall be of steel construction, prime painted and furnished with cylinder lock and two (2) keys, as manufactured by Inland Steel Products Company, "Milnor," Miami-Carey, Walsh-Hannon-Gladwin, Inc., "Way-Loctor" or approved equal. Access panels located in Fire-Rated ceilings and Fire-Rated walls shall be constructed with 1-1/2 hour Fire-Rating and shall bear the U.L. Label insuring the Fire-Rating construction.

#### 2.03 PIPE AND FITTINGS

- A. All piping inside the building for the sprinkler system 2-1/2 inches and smaller in size shall be Schedule 40 black steel pipe with threaded ends conforming to ASTM Standard A135, latest amendment, approved for use in Fire Protection Systems. All piping inside the building, three inches (3") and larger in size, unless otherwise noted, shall be Schedule 10 black steel pipe with rolled groove ends, approved for use in Fire Protection Systems.
- B. Fittings for the sprinkler systems shall be cast iron. Cast iron fittings shall be extra heavy pattern for pipe sized larger than two inches (2"). Malleable iron fittings of standard weight pattern will be acceptable in sizes up to six inches (6"). U.L. approved and F.M. listed groove fittings will be allowed. All fittings shall be

- approved by Underwriters Laboratories for use in sprinkler systems and shall be designed and guaranteed for a working pressure of not less than 175 psi cold water pressure.
- C. All close and shoulder nipples shall be of corresponding materials as the pipe and shall be extra heavy pattern.
- D. All pipe shall be run true to line and grade and, in general, parallel to walls and ceilings. All open ends of the pipe lines, equipment, etc., shall be properly capped and plugged during the installation in order to keep dirt or foreign materials out of the system. All work shall be performed in a practical manner and according to the highest standards of workmanship.
- E. All threaded pipes shall have full tapered threads with ends reamed out after threading and cutting.
- F. The interior of all pipes and fittings shall be cleaned before assembling. All pipe threads (not fittings) shall have a thorough application of approved pipe joint cement before assembling. Any leaky joints shall be remade, as caulking will not be permitted. All pipe shall be pitched as required. Means shall be provided to completely drain the entire system. Capped flushing connections shall be provided at the ends of all cross mains.

#### 2.04 VALVES

- A. All valves shall be of the O.S. & Y. type, of approved extra heavy flanged pattern and be designed and guaranteed for a minimum working pressure of 175 psi. All shut-off valves shall be located in conveniently accessible positions. Valves controlling the water supply to each system shall have an approved sign attached to the yoke indicating the purpose of the valve.
- B. Check valve shall be of approved type for fire protection systems and be designed and guaranteed for a minimum working pressure of 175 psi.
- C. Drain valves shall be Underwriters' approved all bronze angle, globe pattern with renewable disc, hose with cap and chain, ample size hand wheel and rated for a working pressure of 175 psi.

# 2.05 HANGERS AND SUPPORTS

- A. All piping shall be supported throughout the building structure by means of approved hangers and supports. Piping shall be supported to maintain required grading and pitching of lines, to prevent vibration and to secure piping in place, and shall be so arranged as to provide for expansion and contraction.
- B. Pipe hangers shall be of black malleable iron, heavy petters in two (2) parts bolted together, of a type approved for Fire Protection Systems installation.
- C. Hangers shall fit the pipe snugly but leave the pipe sufficient freedom of movement for expansion or contraction. Hangers which permit wide lateral motion of the pipe will not be acceptable.