

PENALTY FOR REMOVING THIS CARD

-	<b>Iaine - Building or Use</b> 04101 Tel: (207) 874-870	• •		Issue Date;	CBL: 197 B019001	
Location of Construction:	Owner Name:		Owner Address:	10/20/08	Phone:	
1410 CONGRESS ST		REALTY CO	PO BOX 20	I	rnouc:	
Business Name: Contractor Name			Contractor Address:		Phone	
	TBD			-	1 noue	
Lessee/Buyer's Name	Phone:		Permit Type: Commercial		Zone: B-2	
Past Use: Proposed Use:			Permit Fee:	Cost of Work:	CEO District;	
Vacant Land Parking L	Vacant Land Parking Lot Commercial - 3,000 sq ft bui lanes, 64' 7" x		\$9,595.00 FIRE DEPT:	C Apploved	PECTION: Group: B Type:SB	
Proposed Project Descriptio	l n:				IBC 2003	
	,000 sq ft building w/ 2 drive	e up lanes, 64' 7" x 46'	up lancs, 64' 7" x 46' Signature: Cree Cases Sign PEDESTRIAN ACTIVITIES DISTRICT		192/08 Signature: 1 192/08	
2" & 27' high						
			Action: Appro	oved Approved	d w/Conditions Denied	
			Signature:		Date:	
Permit Taken By:	Date Applied For:					
ldobson	07/08/2008		Zomm	g Approval		
1. This permit applica	tion does not preclude the	Special Zone or Revie	ews Zon	ing Appeal	Historic Preservation	
	neeting applicable State and	Shoreland NA	• Varian	ce	Not in District or Landmar	
2. Building permits de septic or electrical	o not include plumbing, work.	Wetland	1	laneous	Does Not Require Review	
3. Building permits ar	e void if work is not started hs of the date of issuance.	Flood Zone PAre	Condit	ional Use	Requires Review	
False information r permit and stop all	nay invalidate a building work	Subdivision	[_] Interpre	etation	Approved	
PERM	TICOURD	A Site Plan 2009 - 00		/ed	Approved w/Conditions	
	IT ISSUED	Maj Minor MM	Denied		Date:	
	FORTLAND	9-7/15/04	ð		I	

#### CERTIFICATION

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

IGNATURE OF APPLICANT	ADDRESS	DATE	PHONE
RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE		DATE	PHONE

#### CHURGAN CHURGA

# **General Building Permit Application**

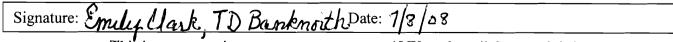
If you or the property owner owes real estate or personal property taxes or user charges on any property within the City, payment arrangements must be made before permits of any kind are accepted.

	TGATE PLAZA			
Location/Address of Construction: 40	CONGRESS	STREET,	PORT	AND ME.
Total Square Footage of Proposed Structure/Ar <b>3000</b>	rea Squa F. O	re Footage of Lot VERALL PALCEL	- 496	,199 SF
Tax Assessor's Chart, Block & Lot	Applicant * <u>must</u> b	e owner, Lessee or	Buyer*	Telephone:
Chart# Block# Lot#	Name T <b>b BA</b>	UKNORTH		PROJECT MANAGER
TAX MAP 197 LOT B-19	Address 70 G	CAU ROAD		Enily CLARK
		W. FALMOUTH ME	04105	207.317.5103
Lessee/DBA (If Applicable)	Owner (if differen	t from Applicant)	Со	st Of
	Name CHARTER	. FEALTY + DEUE	Kobment <sub>an</sub> c	ork: \$ 950,000
		STCHESTER AVE	- Co	of O Fee: \$ <b>_75</b>
	City, State & Zip	suite s-6	<b>32</b>	tal Fee: \$ <u>9595</u>
		200K, NY 1057	3	
Current legal use (i.e. single family)	K/BUS NEG	5		
If vacant, what was the previous use? <b>N/A</b> _				
Proposed Specific use: BANK-/ BUS	SINESS	1		
Is property part of a subdivision?	If yes, p	olease name		
Project description: NEW 3,000 SF BI	eanch bank i	NTH 2 DEIVE	- UP LA	NES PROPOSED
BUILDING VIMENSIONS ARE: 64-	1" × 46-2" P	rND 27' HIGH	ł.	
Contractor's name:BD			_	
Address:			_	
City, State & Zip			Teleph	ione:
Who should we contact when the permit is read	y: Emily Cla	RK-TD Bonka	Teleph	one: <u>317-5103</u>
Mailing address:	·			

Please submit all of the information outlined on the applicable Checklist. Failure to do so will result in the automatic denial of your permit.

In order to be sure the City fully understands the full scope of the project, the Planning and Development Department may request additional information prior to the issuance of a permit. For further information or to download copies of this form and other applications visit the Inspections Division on-line at <u>www.portlandmaine.gov</u>, or stop by the Inspections Division office, room 315 City Hall or call 874-8703.

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 is not a permit; you may not commence ANY work until the permit is issue

		: (207) 874-8703, Fax: (2		′ L		197 B019001
Location of Construction:		Owner Name:		Owner Address:		Phone:
1410 CONGRESS ST		BRADLEY REALTY	СО	PO BOX 20		
Business Name:		Contractor Name: TBD		Contractor Address:		Phone
Lessee/Buyer's Name		Phone:		Permit Type: Commercial		
Proposed Use:			Propos	ed Project Description:		
Commercial - TD Bank! up lanes, 64' 7" x 46' 2"		v 3,000 sq ft building w/ 2		ankNorth - New 3,0 2" & 27' high	00 sq ft building w	/ 2 drive up lanes, 64
Dept: Zoning Note: 1) Separate permits sha 2) This permit is being work.	ll be requir	Approved with Condition ed for any new signage. on the basis of plans submit		: Marge Schmucka		Ok to Issue: 🗹
	/ed, all of t	he review questions/comm	ents nave been	responded to and ad	lequately satisfy co	de compliance of
<ul><li>this project.</li><li>2) Permit approved bas noted on plans.</li><li>3) A certificate of third must be submitted to</li><li>4) Separate permits are</li></ul>	ed on the p party inspe this office required fo	lans submitted and reviewe ection, stamped plans, and prior to issuance of the Ce or any electrical, plumbing,	ed w/owner/con a photo of the s rtificate of Occ or HVAC syste	tractor, with additic ticker stating third p upancy. ems.	nal information as a	agreed on and as
<ul> <li>this project.</li> <li>2) Permit approved bas noted on plans.</li> <li>3) A certificate of third must be submitted to</li> <li>4) Separate permits are</li> </ul>	ed on the p party inspe this office required fo leed to be s	lans submitted and reviewe ection, stamped plans, and prior to issuance of the Ce or any electrical, plumbing, ubmitted for approval as a	ed w/owner/con a photo of the s rtificate of Occ or HVAC syste	tractor, with additic ticker stating third p upancy. ems.	nal information as a	agreed on and as
<ul> <li>this project.</li> <li>2) Permit approved bas noted on plans.</li> <li>3) A certificate of third must be submitted to</li> <li>4) Separate permits are Separate plans may r</li> </ul>	ed on the p party inspe- this office required fo- leed to be s Il be requir	lans submitted and reviewe ection, stamped plans, and prior to issuance of the Ce or any electrical, plumbing, ubmitted for approval as a	ed w/owner/con a photo of the s rtificate of Occ or HVAC syste part of this pro	tractor, with additic ticker stating third p upancy. ems.	nal information as a	agreed on and as ced in the structure
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<ul> <li>this project.</li> <li>2) Permit approved bas noted on plans.</li> <li>3) A certificate of third must be submitted to</li> <li>4) Separate permits are Separate plans may r</li> <li>5) Separate Permits sha</li> <li>Dept: Fire Note:</li> </ul>	ed on the p party inspe this office required fo leed to be s ll be requir <b>Status:</b> <b>Status:</b>	lans submitted and reviewe ection, stamped plans, and prior to issuance of the Ce or any electrical, plumbing, ubmitted for approval as a ed for any new signage. Approved	ed w/owner/con a photo of the s rtificate of Occ or HVAC syste part of this pro <b>Reviewer</b> : <b>Reviewer</b> :	tractor, with additic ticker stating third p upancy. ems. cess. Capt Greg Cass	Approval I	agreed on and as ced in the structure Date: 07/23/2003 Ok to Issue: Date: Ok to Issue:
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locat	ion of Construction:	Owner Name:		Owner Address:	Phone:	_
1410	CONGRESS ST	BRADLEY R	EALTY CO	PO BOX 20		
Business Name:		Contractor Name TBD	Contractor Name: TBD		Phone	
esse	e/Buyer's Name	Phone:		Permit Type:		
				Commercial		
Dej Not	•	atus: Approved with C	onditions <b>Re</b>	viewer: Philip DiPierro	Approval Date: 07/2 Ok to Issue	2/2008 : 🖌
1 101						• —
De	pt: Planning St	atus: Approved with C	onditions <b>Re</b>	viewer: Molly Casto	Approval Date:	
Not	te:				Ok to Issue	: 🗹
t 2) 2 1 1 2	the release of the perform 2.□The applicant shall ad as the any warning signag building causes "peak hou	ance guarantee. dress, to the satisfaction e for lot 3 alerting vehic r" traffic volumes to be vith this application, a re	of the City Tran eles to the presen greater than tho evised traffic ana	nsportation Engineer, the locat ce of pedestrian crosswalks. se included in the traffic analy lysis will be required for revie	tion of crosswalks on Lot 3 as with addition, if the tenant of the reses conducted for the project a rew and approval by the City Tradition of a burner to the issuence of	well s affic
					ui billoi to the issuance of a bu	nume
) 2		n finalized for the propo	osed building on	_	it sign details for the proposed	-
5) 2 1 5) 4 5 1 1 1	3. Once a tenant has bee for review and approval b 4. A pre-development as submitted for review and levels shall also be taken a	n finalized for the propo y the Planning Authority sessment of noise levels approval by the Planning and submitted quarterly andards of Section 14-18	osed building on y prior to the issues and a prediction g Authority prior for the first year	lot 3, the applicant shall subm uance of a building permit. In of decibel levels from the pro- to the issuance of a building of operation to the Planning A	· · ·	use se nat
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Location of Construction:	Owner Name:	Owner Address:	Phone:
1410 CONGRESS ST	BRADLEY REALTY CO	PO BOX 20	
Business Name:	Contractor Name:	Contractor Address:	Phone
	TBD		
Lessee/Buyer's Name	Phone:	Permit Type:	
		Commercial	

- 11 5. The applicant shall submit a photometric plan meeting the requirements of the City of Portland Technical and Design Standards, with respect to the rear of the building so as to demonstrate that no unnecessary light, as defined by City Standards, is being passed onto the abutting residential properties. This shall be reviewed and approved by the Planning Authority prior to the issuance of a building permit.
- 12 6. The applicant shall submit an updated landscaping plan for the rear portion of the property that abuts residential lots that provides continuous buffering along the property line between lot 1 and abutting residential properties for the Planning Authority's review and approval prior to the issuance of a building permit.
- 13 1. The applicant shall provide easement language for the proposed bus turnout and sidewalk based on as-built condition for review and approval by Corporation Counsel prior to the issuance of a Certificate of Occupancy.

#### **Comments:**

7/15/2008-mes: WAIT FOR PLANNING SIGN OFF

9/8/2008-csh: Called jen roy to get special inspections report and geo-tech report and spec. Book 9/08/08

Applicant: TD BANK North Date: 7/15/09 Address: 1410 Congress St C-B-L: 197-B-14 CHECK-LIST AGAINST ZONING ORDINANCE Date- New lot recentley Subdivided from Westgate Zone Location - B-2 EA #08-0830 P Interior of corner lot -Proposed Use Work - to Construct New 3,000 BANK with double drive-Servage Disposal - CXC - 13.5' Scaled AT The fur Thest Lot Street Frontage - 50 min -2130 Front Yard - Nomin but Should Not - 13.5 SCALEAN exceed the twentige on Either Side (42' #36.5'= 785'-Rear Yard -(doesn't Abut resul) 10'm - 73' tobldy - 60' to drive Thru (doesn't Abut Kesud) - None Feg - 7'E 275'Scalad Projections -Width of Lot - Nome Fey; Height - 45 may - Well less Lot Area - 10,000 4 min - 19, 246 \$ given O Los Coverage Impervious Surface - 80% MAX - See Septrate Attachme Area per Family - NA Off-street Parking - 3000-334-898 19 Sperey - 19 Spaces Show Loading Bays - NA Site Plan - 2008 - 0027 Shoreland Zoning/Stream Protection - NT Flood Plains - PAnel 15 - Zone (

From:	Marge Schmuckal
To:	Barbara Barhydt; Molly Casto
Date:	7/15/2008 3:29:08 PM
Subject:	Westgate

Molly,

I am starting to get permits for work at the Westgate site and I have questions.

1. Is the subdision/site plan approved? I need a signed, stamped approved plan if so.

2. I have an application for the new TD Bank North. Can that permit be issued after our review and approvals?

3. I have an application for the reuse of the old Friendly's building for a Tim Hortons. Can that permit be issued after our review and approvals?

4. I have a permit for a change of use from retail to Mercy medical offices - 10, 758 sq ft somewhere in the existing main portion of the building. Was the PB aware of that change of use? Was parking reviewed by the traffic engineers for that use? I don't remember that we were aware of this pending use change.

Thanks, Marge

CC: ALEX JAEGERMAN; PENNY LITTELL

A ORTLAND	Certificate of D		lication		
From Designer:	<u> </u>	GYMMES MAINI & MCKEE			
Date:	JULY 9,2008				
Job Name:	TO BRANKNORTH	TO BANKNORTH - WESTGATE PLAZA			
Address of Constructi	on: 1410 LONGROSS	STREET	SUM .		
			1, 20		
	2003 Internationa	al Building Code	JUL		
	Construction project was designed to	0			
	t)888	0			
Building Code & Year _	16 2003 Use Group Classificat	ion (s) B-BUS	INEGS		
Type of Construction	5B UNPROTECTER	· · · · · · · · · · · · · · · · · · ·			
71	Fire suppression system in Accordance wit	th Section 903 3.1 of th	2003 TRC 11EC		
	4.1.4		<b>v</b> .1		
Is the Structure mixed use					
Supervisory alarm System	?Geotechnical/Soils repor	rt required? (See Sectio:	n 1802.2)		
Staugtural Daging Calou	lations	NONE	• Live load reduction		
Structural Design Calcu			Roof <i>live</i> loads (1603.1.2, 1607.11)		
	d for all structural members (106.1 - 106.11)		E Roof snow loads (1603.7.3, 1608)		
	ruction Documents (1603)		Ground snow load, $P_g$ (1608.2)		
Uniformly distributed floor l Floor Area Use	ive loads (7603.11, 1807) Loads Shown	N/A	If $P_g > 10$ psf, flat-roof snow load $p_f$		
	100 8:5	N/A	If $Pg > 10$ psf, snow exposure factor, $Q$		
SUAB ON GRADE	100 MSF	11/A	If $P_g > 10$ psf, snow load importance factor		
			Roof thermal factor, $G(1608.4)$		
Wind loads (1603.1.4, 160			Sloped roof snowload, <sub>P3</sub> (1608.4)		
	tion utilized (1609.1.1, 1609.6)	CTEEL BRANCH	Seismic design category (1616.3)		
		5	Basic seismic force resisting system (1617.6.		
1609.6 Design op	speed (1809.3)				
1609.6 Design op 100 MPH Basic wind	ategory and wind importance Factor, 1,		Response modification coefficient, $R_{I}$ and		
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Building Inspections Division • 389 Congress Street • Portland, Maine 04101 • (207) 874-8703 • FACSIMILE (207) 874-8716 • TTY (207) 874-8936



(SEAL)

# Accessibility Building Code Certificate

Designer:	Symmes MAINI & UCKEE				
Address of Project:	1410 CONGRESS STREET, PORTLAND ME				
Nature of Project:	NEW CONSTRUCTION OF 3,000 SF.				
	BANK BUILDING.				

The technical submissions covering the proposed construction work as described above have been designed in compliance with applicable referenced standards found in the Maine Human Rights Law and Federal Americans with Disability Act, Residential Buildings with 4 units or more must conform to the Federal Fair Housing Accessibility Standards. Please provide proof of compliance if applicable.

SED ARCHIN		
EDWARD R. FRENETTE No. 3003	Signature:	Envir REarette
TTE OF MAIL	Title:	ARCHITECT, SENIOR VICE PRESIDENT
CAL)	Firm:	GYNMES NAINI & MCKEE
	Address:	1000 NASSACHUSETTS AVE.
	-	CAMBRIDGE, MA. 02138

617.547.5400

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

Phone:

4

3



**Certificate of Design** 

Date:	JULY T, 2008	

From:

SYMMES MAINI & MCKEE

These plans and / or specifications covering construction work on:

Tr	BANKNORTH	- WESTGATE PLAZA
1410	CONGRESS	STREET

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: Etucal Reverte	Signature
Title: ARCHITECT, SENIOR VICE PRESIDENT	Title:
Firm: <u>SUMMES MAIN</u> + MCKEE	Firm:
Address: 1000 MASSACHUSTETTS AVE.	Address:
CAMBRIDGE, MA. 02138	
Phone: <u>617.547.5400</u>	Phone:

5

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

Applicant: Westgitte Shepping PLAZA Date: 5/9/08 Address: 1354 Congress \$ C-B-L: 191-B-19 CHECK-LIST AGAINST ZONING ORDINANCE BANK Drive Think Ristamant Drive Thy 197-B-19 197-B-18 Date -Zone Location - B - 7 exists 2,474 # Bldg Interior ar corner lot -New 3000 F Bldg Proposed Use/Work -Servage Disposal - City ~ 145 Scaled × 130'Scalud Lot Street Frontage - 50 mm Currently legally Noncontor for front Set BACK 10'scaled At Closest 12'on further end could extend 29' Front Yard - No Min, but should Not exceed The Average Depth of a then side man Blue 58'SCAlud drive Rear Yard - (6' (Docsnet Abut Fes) 10 exactly Sule Yard - Nome Fey ok 7'scAlud oK (Does Not Abut FesidentiAL Projections -Width of Lot - None Feg well less well less. Height - 451 MAX 22, OGZ# Siven 19,2464 given Lot Area - 10,000 mm Needs 3849.2" pervices Lot Coverage/(Impervious Surface - 80% Needs' 44 18 4 parrows MAX LAS ATTERAST 3472 # PENTICS LAS AT LEAST 48224 pervious Area per Family -  $\mu$ Off-street Parking - lest: (per 150 # retail: 14 2000 - Ørey Loading Bays - NA 3000-334 = 8.980 2474 - 150 = 16.50 m17 19 spaces show 9 spc reg - 20 spc show 19 spaces show 9 spc req -2008-0027 Site Plan -Shoreland Zoning/ Stream Protection -NA Flood Plains - PAnel 13 Fore

### MEMORANDUM

 To:
 FILE

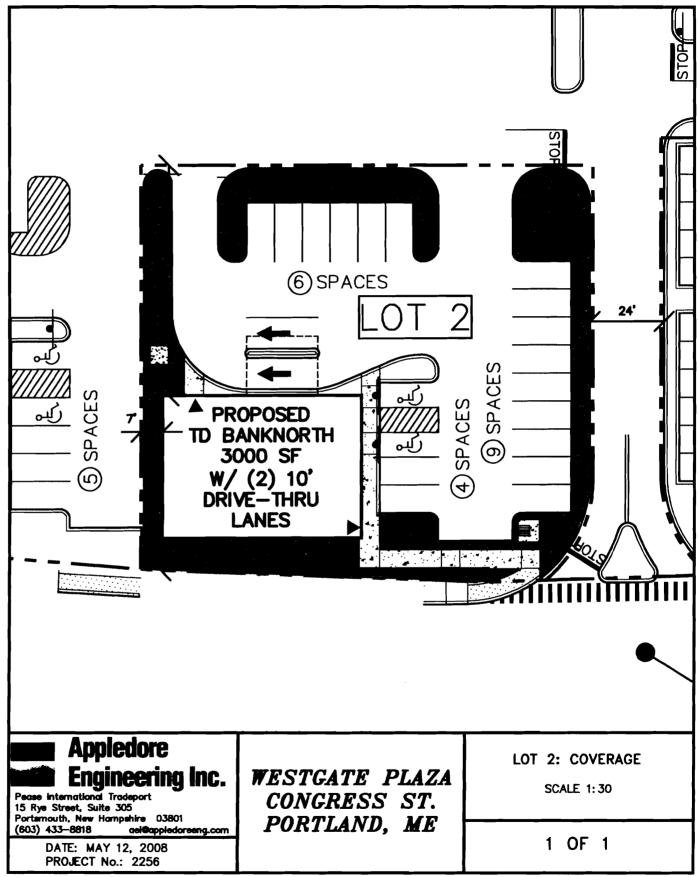
 From:
 Marge Schmuckal
 Dept:
 Zoning

 Subject:
 Application ID: 2008-0027
 Dept:
 Zoning

 Date:
 5/13/2008
 Dept:
 Dept:
 Dept:

The applicant has e-mailed me revised figures and a colorized version of what was included within the impervious/pervious calculations for THE BANK. I have accepted the areas that are being included within the pervious area and confirmed that the definition of the impervious surface is being met as shown. THE BANK, Lot #2, is meeting all the requirements of the B-2 Zone and can stand alone as meeting zoning requirements as an individual lot if sold off separately.

Marge Schmuckal Zoning Administrator



FILE: 2256-SITE.DWG

From:	Marge Schmuckal		
To:	Karen Johnson; Molly Casto		
Date:	5/13/2008 11:03:40 AM		
Subject:	Re: FW: TD Banknorth- Open Space		

Thank you Karen for clarifying what was used for the impervious surface calculations. I would accept this revision as meeting the impervious requirements of the B-2 Zone for Lot #2. Admittedly, my calculations were crude and I wanted to confirm what was included within the calculations. You did not include areas that the ordinance does not permit as pervious. I will revise my memo to Molly.

#### Marge

>>> "Karen Johnson" <karen@chartweb.com> 5/13/2008 10:25:26 AM >>> Molly - I am sure you are swamped today but wanted you to see Brad's calculations before the workshop.

Marge - if you have a chance to review or any questions, please call. Brad has highlighted only those areas counted towards green space as green and has not counted islands that are smaller than 200 sf and we are at 77.48%. This revised sketch also includes the new ramp for the hc and ped access and a minor adjustment in the bike rack location to better facilitate the ramp access, the original plan that you reviewed shows this area at 74.6%. The only lot that was close is Lot 1 which is 79.5% but we have new landscaped islands we are adding which will further reduce the impervious area. The calculations are based on cad drawings which could be provided for verification.

Thanks

Karen

From: Bradlee Mezquita, P.E. [mailto:BMezquita@appledoreeng.com] Sent: Monday, May 12, 2008 5:25 PM To: karen@chartweb.com Subject: TD Banknorth- Open Space

We get 77.5% for the open space on the bank parcel. The areas that we counted are shown in green.

Pervious area: 4333.69 (22.52%) Impervious area: 14912.72 (77.48%) Lot area: 19246.41

Brad Mezquita, PE Appledore Engineering, Inc. 15 Rye St, Suite 305, Portsmouth, NH 03801 TEL: (603)433-8818 Email: <<u>mailto:bmezquita@appledoreeng.com</u>> <u>bmezquita@appledoreeng.com</u> www.appledoreeng.com

No virus found in this incoming message. Checked by AVG. Version: 8.0.100 / Virus Database: 269.23.16/1428 - Release Date: 5/12/2008 7:44 AM

From:	"Karen Johnson" <karen@chartweb.com></karen@chartweb.com>
To:	"Molly Casto" <mpc@portlandmaine.gov>, "Marge Schmuckal"</mpc@portlandmaine.gov>
<mes@portla< th=""><th>indmaine.gov&gt;</th></mes@portla<>	indmaine.gov>
Date:	5/13/2008 10:26:27 AM
Subject:	FW: TD Banknorth- Open Space

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Karen

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No virus found in this incoming message. Checked by AVG. Version: 8.0.100 / Virus Database: 269.23.16/1428 - Release Date: 5/12/2008 7:44 AM

From:	Tammy Munson		
To:	Chris Hanson		
Date:	8/22/2008 11:11:01 AM		
Subject:	TD Banknorth		

I couldn't find the permit packet for the above with the designers info and email address. If you know where it is could you please email the designer regarding the following items we reviewed:

1. We need a statement of special inspections

2. We need a new geotechnical report ( as the specs called out on the plan do not match what is shown on the report). 3 S Pec-BookMaybe the front staff coul help you find it. Thanks.

From:	Tammy Munson
To:	Chris Hanson
Date:	8/22/2008 11:11:01 AM
Subject:	TD Banknorth

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Maybe the front staff coul help you find it. Thanks.

SPECS

Call Mike Nugent Q23-4056

Called 8145 Reminder HIO Congress TD Bank Worth call about P-Review.

### ARCHITECTURE ENGINEERING PLANNING INTERIORS

# SMMA SYMMES MAINI & MCKEE ASSOCIATES

LETTER OF TRANSMITTAL

Project:       TD Banknorth, Westgate Plaza, 1410 Congress Street         To:       City of Portland- Inspections Division         389 Congress Street, Room 315       Portland, Maine 04101         Attention:       Christopher Hanson         Regarding:       Geotechnical Report         HESE ARE TRANSMITTED AS CHECKED BELOW:       Index separate cover via         Image:       Attached       Under separate cover via         Image:       Shop Drawings       Prints/Plans       Specifications         Image:       Copy of letter       Change Order       Diskettes         COPIES       DATE       NO.       DESCRIPTION         1       5-30-08       Geotechnical Report- prepared by S.W. Cole	1 <u>33.01</u> 2-08
To:       City of Portland- Inspections Division         389 Congress Street, Room 315         Portland, Maine 04101         Attention:       Christopher Hanson         Geotechnical Report         HESE ARE TRANSMITTED AS CHECKED BELOW:         Attached       Under separate cover via         Shop Drawings       Prints/Plans         Copies       DATE         NO.       DESCRIPTION         1       5-30-08         Geotechnical Report- prepared by S.W. Cole	2-00
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THESE ARE TRANSMITTED AS CHECKED BELOW:

For approval	Approved as submitted	🗅 Resubmit	copies for approval
🗵 For your use	Approved as noted	🖬 Submit	copies for distribution
As requested	Returned for corrections	Return	corrected prints
For review and comment		Other:	n constanting a constant of constant
S FOR BIDS DUE C	DN: July 16, 2008		AFTER LOAN TO US

### REMARKS

Chris- Please find the geotechnical report, as requested.

Feel free to contact me if you need further information.

Thank you,

COPIES TO: (MF)

SIGNED:

If enclosures are not as noted, kindly notify us at once. \\P:\2007\07133\05-TRANS\Lot\_Tocity\_2008-0912.Doc

Jannifur Ray Jennifer Roy

1000 Massachusetts Avenue, Cambridge, Massachusetts 02138 T 617.547.5400 F 617.354.5758

### GEOTECHNICAL ENGINEERING SERVICES PROPOSED BANK BUILDING WESTGATE PLAZA CONGRESS STREET PORTLAND, MAINE

08-0395

June 10, 2008

SEP 1 6 2003

Prepared for: TD Banknorth, NA Attention: Emily Clark 70 Gray Road West Falmouth, ME 04105-2019

Prepared by:



286 Portland Road Gray, ME 04039



RING, INC. • Geotechnical Engineering • Field & Lab Testing • Scientific & Environmental Consulting 08-0395

June 10, 2008

TD Banknorth, NA Attention: Emily Clark 70 Gray Road West Falmouth, ME 04105-2019

SEP 1 C ROOM

Subject: Geotechnical Engineering Services Proposed Bank Building Westgate Plaza Congress Street Portland, Maine

Dear Emily:

In accordance with our Agreement, dated May 13, 2008, we have made a geotechnical investigation for the proposed bank building at Westgate Plaza on Congress Street in Portland, Maine. This report summarizes our findings and recommendations and its contents are subject to the limitations set forth in Attachment A.

# **1.0 INTRODUCTION**

### 1.1 Scope of Work

The purpose of our work was to obtain subsurface information in order to develop geotechnical recommendations for foundations and earthwork associated with the proposed construction. Our scope of work included five test boring explorations, soils laboratory testing, a geotechnical evaluation of the subsurface findings and preparation of this report.

### **1.2 Proposed Construction**

Based on information you provided, we understand plans call for construction of a one-story bank building. We understand the building will occupy a plan area of about 3,000 square feet. A two bay drive through is planned on the south side of the building and an underground storm water recovery system is planned near the southeasterly corner of the building. We understand finished floor elevation will be about 48 feet (project datum). Details of the proposed site feature are shown on the "Exploration Location Plan" attached as Sheet 1.

#### GRAY, ME OFFICE

286 Portland Road, Gray, ME 04039-9586 = Tel (207) 657-2866 = Fax (207) 657-2840 = E-Mail infogray@swcole.com = www.swcole.com

Other offices in Augusta, Bangor, and Caribou, Maine & Somersworth, New Hampshire



# 3.4 Seismic and Frost Conditions

According to the 2006 International Building Code, we interpret the subsurface conditions to correspond to a seismic Site Class E. The design freezing index for the Portland, Maine area is about 1,250-Fahrenheit-degree-days, which corresponds to a frost penetration depth of about 4.5 feet.

### **4.0 EVALUATIONS AND RECOMMENDATIONS**

### 4.1 General

Based on the subsurface findings and our understanding of the proposed construction, it is our opinion that the proposed building can be supported on spread footing foundations. However the existing fill, existing utilities, and other structures will need to be removed beneath the entire building footprint. Existing fills at the site range from about 6 to 10 feet in depth. The existing fill may be suitable for reuse beneath the building provided organics, concrete, and other deleterious material are removed from the fill prior to backfilling.

### 4.2 Site and Subgrade Preparation

Site preparation should begin with construction of an erosion control system to protect drainage ways and areas outside the construction limits. All pavement, existing utilities, relic foundations, fill and other unsuitable material should be removed from beneath the proposed building area. Over-excavation below the proposed building should continue laterally outward 1 foot for every 1 foot of excavation below the bottom of perimeter footings (1V to 1H bearing splay). Below the fill, excavation may encounter the native silty clay soils. If encountered at footing subgrade elevation, we recommend the native silty clay be overexcavated using a smooth-edged bucket by at least 18 inches below foundations. Care must be exercised during construction to reduce disturbance of the native clay soils.

Existing fills beneath pavements and sidewalks should be densified using a smooth drum vibratory roller. Soils that become soft or yield during the densification process should be overexcavated and backfilled with Granular Borrow.

We recommend that fill used to backfill the overexcavated building area and to raise paved areas consist of sand and gravel meeting the requirements of MDOT Standard Specifications 703.19 Granular Borrow.



drains must be routed in separate non-perforated drain lines such that roof drainage is not introduced into the foundation drainage system.

# 4.5 Floor Slabs

We recommend that the floor slab be underlain with at least 12 inches of compacted Structural Fill. Slab-on-grade floors may be designed using a subgrade reaction modulus of 150 pci provided the concrete slab is underlain by properly prepared subgrades.

For slab-on-grade floors we recommend that a 15-mil (minimum) vapor retarder be placed directly below the floor slab concrete. The vapor retarder should have a permeance that is less than the floor covering being applied on the slab and should be installed according to the manufacturer's recommended methods including taping all joints and wall connection. Flooring suppliers should be consulted relative to acceptable vapor retarder systems for use with their products. The vapor retarder must have sufficient durability to withstand direct contact with sub-slab fill and construction activity.

We recommend that control joints be installed within floor slabs to accommodate shrinkage in the concrete as it cures. In general, control joints are usually installed at 10 to 15 foot spacing; however, the actual spacing of control joints should be determined by the structural engineer. We recommend that floor slabs be wet-cured for a minimum of 7 days after casting as a measure to reduce the potential for curling of the concrete and excessive shrinkage. We further recommend that consideration be given to using a curing paper or curing compound after the wet-cure period to improve the quality of the completed floor slab.

# 4.6 Entrance Slabs and Sidewalks

Entrance slabs and sidewalks should be designed to reduce the effects of differential frost action between doorways and entrances. We recommend that excavations beneath the entire length and width of entrances, sidewalks, and the exterior drive-thru slab continue to at least 4.5 feet below finish grade. These areas should be backfilled with compacted non-frost susceptible Structural Fill to reduce abrupt frost heave or differential movement. The zone of non-frost susceptible material adjacent to exterior foundations and below entrance slabs and sidewalks should transition up to adjacent pavement subbase or sidewalk base at a 3H:1V slope or flatter.

# 4.7 Pavement

Although traffic loading information was not made available to us, we anticipate traffic loading to consist of passenger vehicles and light delivery vehicles. Thus, we offer the following pavement sections based on our experience with similar construction.



Structural Fill		
Sieve Size	Percent Finer by Weight	
1⁄4 inch	25 to 90	
No. 40	0 to 30	
No. 200	0 to 5	

Crushed stone should meet the specifications for MDOT 703.22 Underdrain Type C with the following gradation:

Crushed Stone			
Sieve Size	Percent Finer by Weight		
1 inch	100		
3/4 inch	90 to 100		
3/8 inch	0 to 75		
No. 4	0 to 25		
No. 200	0 to 5		

Granular Borrow used beneath building and pavement areas should meet the requirements of MDOT Standard Specifications 703.19.

The on-site silty sand with some gravel may be suitable for re-use as granular borrow. This material, if re-used, should be segregated and stockpiled during construction and grain-size analyses should be performed to determine their suitability for re-use on-site. Re-use suitability will also be dependent on moisture content at the time of construction. The on-site soils are not suited for reuse during wet and freezing weather in which case Structural Fill should be used.

Fill and backfill should be placed in horizontal lifts and be compacted. Lift thickness should be such that desired density is achieved throughout the lift thickness with 3 to 5 passes of the compaction equipment. Fill beneath building and paved areas, including foundation backfill

### **Attachment A - Limitations**

This report has been prepared for the exclusive use of TD Banknorth for specific application to the Proposed Bank Building at Westgate Plaza on Congress Street in Portland, Maine. S. W. COLE ENGINEERING, INC. has endeavored to conduct the work in accordance with generally accepted soil and foundation engineering practices. No warranty, expressed or implied, is made.

The soil profiles described in the report are intended to convey general trends in subsurface conditions. The boundaries between strata are approximate and are based upon interpretation of exploration data and samples.

The analyses performed during this investigation and recommendations presented in this report are based in part upon the data obtained from subsurface explorations made at the site. Variations in subsurface conditions may occur between explorations and may not become evident until construction. If variations in subsurface conditions become evident after submission of this report, it will be necessary to evaluate their nature and to review the recommendations of this report.

Observations have been made during exploration work to assess site groundwater levels. Fluctuations in water levels will occur due to variations in rainfall, temperature, and other factors.

S. W. COLE ENGINEERING, INC.'s scope of work has not included the investigation, detection, or prevention of any Biological Pollutants at the project site or in any existing or proposed structure at the site. The term "Biological Pollutants" includes, but is not limited to, molds, fungi, spores, bacteria, and viruses, and the byproducts of any such biological organisms.

Recommendations contained in this report are based substantially upon information provided by others regarding the proposed project. In the event that any changes are made in the design, nature, or location of the proposed project, S. W. COLE ENGINEERING, INC. should review such changes as they relate to analyses associated with this report. Recommendations contained in this report shall not be considered valid unless the changes are reviewed by S. W. COLE ENGINEERING, INC.

S.W.COLE
ENGINEERING, INC.

LOCATION:

DRILLING CO. :

PROJECT / CLIENT: PROPOSED BANK BUILDING, WESTGATE PLAZA / TD BANKNORTH

CONGRESS STREET, PORTLAND, ME

GREAT WORKS TEST BORING

# **BORING LOG**

JEFFREY LEE

BORING NO .:	B-1
SHEET:	1 OF 1
PROJECT NO .:	08-0395
DATE START:	5/20/2008
DATE FINISH:	5/20/2008
ELEVATION:	47' ±
SWC REP.:	MPL

	TYPE	SIZE I.D.	HAMMER WT. H	HAMMER FALL	SWC REP.: MP
CASING:	HSA	6"			WATER LEVEL INFORMATION
SAMPLER:	SS	1 3/8"	140 lbs	30*	SOILS APPEAR SATURATION @ 7
CORE BARREL:		_			

DRILLER:

CASING BLOWS	SAMPLE		SAMPLER BLOWS	PER 6*	DEPTH	STRATĂ & TEST DATĂ
PER FOOT	NO. PEN. REC	DEPTH @ BOT	0-6 6-12 12-18	18-24		
					Q.2'	
	10 2/1 18	, . ,	14 24 28	31	2.0'	~DENSE~ DARK BROWN SILTY SAND, SOME GRAVEL (FILL)
	1D 24" 18	2.5'	14 24 20	5		BROWN SILTY SAND, TRACE GRAVEL (FILL)
· · ·				· ·		
1.		7.01				~LOOSE~
	2D 24" 4"	7.0'	4 4 3	3		~[003E~
	······ · ·····	· · · · · · · · · · · · · · · · · · ·		1 -	}	
					10.0'	
	3D 24" 14	•   12.0'	1 1 2	+ 2		BROWN SILTY CLAY
		<u> </u>				
		· · ·				~STIFF TO MEDIUM STIFF~
			·	······		
!	4D 24" 20	· 17.0'	3 1/12	1	17.0'	
						BOTTOM OF EXPLORATION @ 17.0
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SAMPLE		SOIL C	LASSIFIED BY:		REMAR	KS:
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U = 3.5"	SHELBY TUBE		LABORATORY TE			AND THE TRANSITION MAY BE GRADUAL. BORING NO.: B-1
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# **BORING LOG**

BORING NO .:	B-2
SHEET:	2 OF 2
PROJECT NO .:	08-0395
DATE START:	5/20/2008
DATE FINISH:	5/20/2008
ELEVATION:	47' ±
SWC REP.:	MPL
TER LEVEL INFOR	MATION
SAPPEAR SATURA	TION @ 7

PROJECT / CLIENT: PROPOSED BANK BUILDING, WESTGATE PLAZA / TD BANKNORTH

LOCATION:	CONGRESS STREET, PORTLAND, ME		
DRILLING CO. :	GREAT WORKS TEST BORING	DRILLER:	JEFFREY LEE

	TYPE	SIZE I.D.	HAMMER WT. H	HAMMER FALL	SWC REP : MPL
CASING:	CASED	6"			WATER LEVEL INFORMATION
SAMPLER:	SS	1 3/8"	140 lbs	30"	SOILS APPEAR SATURATION @ 7
CORE BARREL:					

CASING BLOWS	÷.	SAM	APLE		SAN			PER 6	DEPTH	STRATA & TEST, DATA
PER FOOT	NO.	PEN.	REC	DEPTH	0-6	6-12	2   12-1	8 18-24		
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SAMPL	ES:		<u> </u>	SOIL C	LASS	IFIED	BY:		REMAR	xks:
D = SPL	IT SPC									
C = 2" S S = 3" S								ALLY SUALLY		STRATIFICATION LINES REPRESENT THE 4
U = 3.5							TORY 1			AND THE TRANSITION MAY BE GRADUAL. BORING NO.: B-2
L										



CONGRESS STREET, PORTLAND, ME

GREAT WORKS TEST BORING

LOCATION:

DRILLING CO. :

# **BORING LOG**

JEFFREY LEE

BORING NO .:	B-4
SHEET:	1 OF 1
PROJECT NO .:	08-0395
DATE START:	5/20/2008
DATE FIN/SH:	5/20/2008
ELEVATION:	47' ±
SWC REP .:	MPL
ER LEVEL INFOR	

	TYPE	SIZE I.D.	HAMMER WT. H	HAMMER FALL	SWC REP.: MPL
CASING:	HSA	6"			WATER LEVEL INFORMATION
SAMPLER:	SS	1 3/8"	140 lbs	30"	SOILS APPEAR SATURATION @ 7'
CORE BARREL:			_		

DRILLER:

CASING BLOWS	<sup>74</sup>	SA	MPLE		SAM	PLER BL	.ows	PER 6"	DEPTH	STRATA & TEST DATA
FOOT	NO.	PEN.	REC.	DEPTH OBOT	0-6	6-12	12-18	18-24		
						;			Q.2'	ASPHALT PAVEMENT
I .	1D	6"	3"	1.5'	14				1.5	BROWN SILTY SAND, SOME GRAVEL (FILL)
								1		BOTTOM OF EXPLORATION @ 1.5'
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SAMPL	ES:			SOIL C	LASSI	FIED B	Y:		REMAR	KS:
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C = 2" S						LLER -				STRATIFICATION LINES REPRESENT THE (6)
S = 3" S U = 3.5				X		IL TECH		BUALLY		APPROXIMATE BOUNDARY BETWEEN SOIL TYPES
0 - 3.5	SHE			L	LAD		/i x i - 11		l	AND THE TRANSITION MAY BE GRADUAL. BORING NO.: B-4



# KEY TO THE NOTES & SYMBOLS Test Boring and Test Pit Explorations

All stratification lines represent the approximate boundary between soil types and the transition may be gradual.

### Key to Symbols Used:

- w water content, percent (dry weight basis)
- q<sub>u</sub> unconfined compressive strength, kips/sq. ft. based on laboratory unconfined compressive test
- S<sub>v</sub> field vane shear strength, kips/sq. ft.
- Ly lab vane shear strength, kips/sq. ft.
- q<sub>p</sub> unconfined compressive strength, kips/sq. ft. based on pocket penetrometer test
- O organic content, percent (dry weight basis)
- W<sub>1</sub> liquid limit Atterberg test
- W<sub>P</sub> plastic limit Atterberg test
- WOH advance by weight of hammer
- WOM advance by weight of man
- WOR advance by weight of rods
- HYD advance by force of hydraulic piston on drill
- RQD Rock Quality Designator an index of the quality of a rock mass. RQD is computed from recovered core samples.
- γ<sub>T</sub> total soil weight
- y<sub>B</sub> buoyant soil weight
- fines content (percent by weight passing U.S. No. 200 Sieve)

### Description of Proportions:

0 to 5% TRACE 5 to 12% SOME 12 to 35% "Y" 35+% AND

f

**REFUSAL:** <u>Test Boring Explorations</u> - Refusal depth indicates that depth at which, in the drill foreman's opinion, sufficient resistance to the advance of the casing, auger, probe rod or sampler was encountered to render further advance impossible or impracticable by the procedures and equipment being used.

**REFUSAL:** <u>Test Pit Explorations</u> - Refusal depth indicates that depth at which sufficient resistance to the advance of the backhoe bucket was encountered to render further advance impossible or impracticable by the procedures and equipment being used.

Although refusal may indicate the encountering of the bedrock surface, it may indicate the striking of large cobbles, boulders, very dense or cemented soil, or other buried natural or man-made objects or it may indicate the encountering of a harder zone after penetrating a considerable depth through a weathered or disintegrated zone of the bedrock.

Page	1	

From:	"Roy, Jennifer" <jroy@smma.com></jroy@smma.com>
То:	"Chris Hanson" <csh@portlandmaine.gov></csh@portlandmaine.gov>
Date:	10/2/2008 7:55:58 AM
Subject:	Re: TDBN-Westgate Plaza 1410 Congress Street (PNUM:07133)Building Permit

Good Morning Chris,

I did receive your email on Monday and I am just waiting for a few more answers from my consultants. I am hoping to have my responses back to you by the end of the day today. In addition, I have a package that I am overnighting to you with specifications, and other requested information.

Feel freeto contact me with any additional questions.

Thank you.

Jennifer Roy Architecture SMMA 1000 Mass. Ave Cambridge MA t: 617.520.9261 m: 617.233.9962 f: 617.354.5758 Sent from Treo

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

From: "Chris Hanson" <CSH@portlandmaine.gov> Subj: Re: TDBN-Westgate Plaza 1410 Congress Street (PNUM:07133)Building Permit Date: Thu Oct 2, 2008 7:31 am Size: 1K To: "jroy@smma.com" <jroy@smma.com>

Jennifer did you get my e-mail and attached list of requests? Chris

christopher hanson code enforcement officer

>>> "Roy, Jennifer" <jroy@smma.com> 09/29 7:54 AM >>> Good Morning Chris-

I apologize for any confusion; I was on vacation last week.

I also understand that there was some back and forth regarding the permit status; however, we have confirmed that the client would like to

proceed with the building permit process. Thus, per our last phone conversation, I will mail to you the building specifications and revised

structural plan indicating the appropriate seismic class (which was correct on the Certificate of Design Application) as well as the Statement of Special Inspections. Please let me know if you have any further questions, or need any additional information.

Thank you,

Jennifer Roy

Architecture

Symmes Maini & McKee Associates, Inc.

1000 Massachusetts Avenue, Cambridge, MA 02138

t: 617.520.9261

m: 617.233.9962

f: 617.354.5758

jroy@smma.com

www.smma.com <http://www.smma.com/>

# SMMA SYMMES MAINI & MCKEE ASSOCIATES

#### MEMORANDUM

To: Chris Hanson From: Jennifer Roy Project: TDBN- Portland ME- Westgate Plaza Re: Plan Review Questions and Responses Date: October 6, 2008 Project No.: 07133.00

Distribution: JR, SKD, SSS, Emily Clark (MF)

In response to email dated 9-29-08:

### 1. Please show calculations used to get from site class "E" to site class "C"

The Site Soil Classification is "E" not D as noted on the permit drawings, (D was a typographical error). This value was from the most recent geotechnical report prepared by SW Cole Engineering Inc. dated June 10<sup>th</sup> 2008, and from the Geotechnical report by JGI Eastern Inc. dated October 30, 2007. According to both reports these soils are not subject to liquefaction under seismic ground motion.

Given the relative light nature of the one story building, both the lateral seismic and wind forces are under 20kips. All connections for braced frame members have approximately 3 times as much allowable capacity

2. S.W. Cole based seismic site class using IBC 2006.Portland has not adopted 2006 as of yet please Justify or request a waiver to use IBC 2006

Please see Attachment I prepared by S.W.Cole for response

3. On the submitted plans sht. SO.O1 under General Notes "Foundations" it refers to a Geotechnical report prepared by JGI Eastern, Inc. dated Oct. 30, 2007, please advice or update

A geotechnical report was commissioned by the landlord of the entire site (see Attachment B: report by JGI Eastern attached) Subsequently, TD Banknorth hired S.W. Cole to prepare a geotechnical report of their particular site which is the report that was previously sent to the Planning Department for review



# 4. The North wall shows a distance of 7' to the property line. AS per Table704.8 justify 25% max. ext. wall openings

Please see Attachment C illustrating square footages of openings at North wall (Called East Elevation on SMMA plans).

ARCHITECTURE ENGINEERING PLANNING INTERIORS

# SMMA SYMMES MAINI & MCKEE ASSOCIATES

#### LETTER OF TRANSMITTAL

					Project #:	07133.01 10-07-08					
Project:		TD Banknorth	Date: 10-07-08 TD Banknorth, Westgate Plaza, 1410 Congress Street City of Portland- Inspections Division								
Project: To:											
<b>.</b>		•··· ·· · · · · · · · · · · · · · · · ·	389 Congress Street, Room 315								
		Portland, Main									
		Attention: Chri	stopher Hanson								
Regarding		Additional Req	uested Information	n							
HESE ARE TR	ANSMITTED AS C	HECKED BELOW:									
			<b>-</b>								
		Attached	Under separate cov								
		Shop Drawings	I Prints/Plans	Specifications	Samples						
		Copy of letter	Change Order	Diskettes	I Other:						
COPIES	DATE	NO	DESCRIPTION								
1	10-06-08		Responses to qu	estions from 9-2	9-08 email						
1			Attachments A-I								
			÷								

THESE ARE TRANSMITTED AS CHECKED BELOW:

	For approval	Approved as submitted	Resubmit	copies for approval
X	For your use	Approved as noted	🗖 Submit	copies for distribution
	As requested	Returned for corrections	Return	corrected prints
	For review and comment		Chher:	
	Given For BIDS DUE ON:		PRINTS RETURNED AFTER LOAN TO US	

REMARKS

Feel free to contact me if you need further information.

Thank you,

COPIES TO: (MF)

SIGNED:

Roy (617) 520

If enclosures are not as noted, kindly notify us at once. \\P:\2007\07133\05-TRANS\Lot\_Tocity\_2008-1007.Doc

1000 Massachusetts Avenue, Cambridge, Massachusetts 02138 T 617.547.5400 F 617.354.5758

# Statement of Special Inspections

Project: TD Banknorth- Westgate Plaza

Location: 1410 Congress Street, Portland ME 04101

Owner: TD Banknorth

Design Professional in Responsible Charge: Symmes, Maini & McKee Associates

This *Statement of Special Inspections* is submitted as a condition for permit issuance in accordance with the Special Inspection and Structural Testing requirements of the Building Code. It includes a schedule of Special Inspection services applicable to this project as well as the name of the Special Inspection Coordinator and the identity of other approved agencies to be retained for conducting these inspections and tests. This *Statement of Special Inspections* encompass the following disciplines:

$\bowtie$	Structural	
	Architectural	

Mechanical/Electrical/Plumbing

The Special Inspection Coordinator shall keep records of all inspections and shall furnish inspection reports to the Building Official and the Registered Design Professional in Responsible Charge. Discovered discrepancies shall be brought to the immediate attention of the Contractor for correction. If such discrepancies are not corrected, the discrepancies shall be brought to the attention of the Building Official and the Registered Design Professional in Responsible Charge. The Special Inspection program does not relieve the Contractor of his or her responsibilities.

Interim reports shall be submitted to the Building Official and the Registered Design Professional in Responsible Charge.

A *Final Report of Special Inspections* documenting completion of all required Special Inspections, testing and correction of any discrepancies noted in the inspections shall be submitted prior to issuance of a Certificate of Use and Occupancy.

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

Interim Report Frequency:

Prepared by:

Edward Frenette	
(type or print name)	
$E \downarrow / D E \parallel$	
Aug Cenette	10.7.08
Signature	Date

Owner's Authorization:

Building Official's Acceptance:

or  $\boxtimes$  per attached schedule.

EDWARD R. FRENETTE No. 3003

Design Professional Seal

D

ARC

Signature Date Signature Date

# Schedule of Inspection and Testing Agencies

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

- Soils and Foundations
   Cast-in-Place Concrete
   Precast Concrete
   Masonry
   Structural Steel
   Cold-Formed Steel Framing
- Spray Fire Resistant Material
   Wood Construction
   Exterior Insulation and Finish System
   Mechanical & Electrical Systems
   Architectural Systems
  - Special Cases

Special Inspection Agencies		Firm	Address, Telephone, e-mail
1.	Special Inspection Coordinator	TBD	TBD
2.	Inspector		
3.	Inspector		
4.	Testing Agency		
5.	Testing Agency		
6.	Other		

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

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

# Key for Minimum Qualifications of Inspection Agents:

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

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

### American Concrete Institute (ACI) Certification

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

### American Welding Society (AWS) Certification

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

### American Society of Non-Destructive Testing (ASNT) Certification

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

#### International Code Council (ICC) Certification

ICC-SMSI	Structural Masonry S	pecial Inspector
----------	----------------------	------------------

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

### National Institute for Certification in Engineering Technologies (NICET)

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

### **Exterior Design Institute (EDI) Certification**

EDI-EIFS EIFS Third Party Inspector

### Other

# **Soils and Foundations**

Item	Agency # (Qualif.)	Scope
1. Shallow Foundations	PE/GE	Inspect soils below footings for adequate bearing capacity and consistency with geotechnical report. Inspect removal of unsuitable material and preparation of subgrade prior to placement of controlled fill
2. Controlled Structural Fill	PE/GE	Perform sieve tests (ASTM D422 & D1140) and modified Proctor tests (ASTM D1557) of each source of fill material. Inspect placement, lift thickness and compaction of controlled fill. Test density of each lift of fill by nuclear methods (ASTM D2922) Verify extent and slope of fill placement.
3. Deep Foundations	PE/GE	Inspect and log pile driving operations. Record pile driving resistance and verify compliance with driving criteria. Inspect piles for damage from driving and plumbness. Verify pile size, length and accessories. Inspect installation of drilled pier foundations. Verify pier diameter, bell diameter, lengths, embedment into bedrock and suitability of end bearing strata.
4. Load Testing		
4. Other:		

# **Cast-in-Place Concrete**

Item	Agency # (Qualif.)	Scope
1. Mix Design	ACI-CCI ICC-RCSI	<i>Review concrete batch tickets and verify compliance with approved mix design. Verify that water added at the site does not exceed that allowed by the mix design.</i>
2. Material Certification		
3. Reinforcement Installation	ACI-CCI ICC-RCSI	Inspect size, spacing, cover, positioning and grade of reinforcing steel. Verify that reinforcing bars are free of form oil or other deleterious materials. Inspect bar laps and mechanical splices. Verify that bars are adequately tied and supported on chairs or bolsters
4. Post-Tensioning Operations	ICC-PCSI	Inspect placement, stressing, grouting and protection of post- tensioning tendons. Verify that tendons are correctly positioned, supported, tied and wrapped. Record tendon elongations.
5. Welding of Reinforcing	AWS-CWI	Visually inspect all reinforcing steel welds. Verify weldability of reinforcing steel. Inspect preheating of steel when required.
6. Anchor Rods		Inspect size, positioning and embedment of anchor rods. Inspect concrete placement and consolidation around anchors.
7. Concrete Placement	ACI-CCI ICC-RCSI	Inspect placement of concrete. Verify that concrete conveyance and depositing avoids segregation or contamination. Verify that concrete is properly consolidated.
8. Sampling and Testing of Concrete	ACI-CFTT ACI-STT	Test concrete compressive strength (ASTM C31 & C39), slump (ASTM C143), air-content (ASTM C231 or C173) and temperature (ASTM C1064).
9. Curing and Protection	ACI-CCI ICC-RCSI	Inspect curing, cold weather protection and hot weather protection procedures.
10. Other:		

# Masonry Required Inspection Level: 1 2

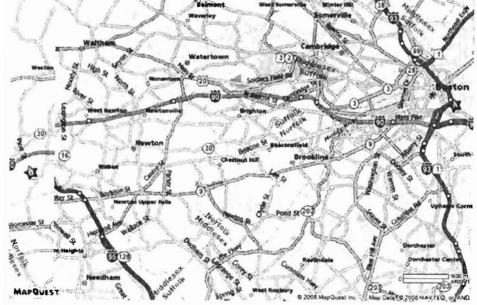
Page 7 of

Item	Agency # (Qualif.)	Scope
1. Material Certification		
2. Mixing of Mortar and Grout	ICC-SMSI	Inspect proportioning, mixing and retempering of mortar and grout.
3. Installation of Masonry	ICC-SMSI	Inspect size, layout, bonding and placement of masonry units.
4. Mortar Joints	ICC-SMSI	Inspect construction of mortar joints including tooling and filling of head joints.
7. Weather Protection	ICC-SMSI	Inspect cold weather protection and hot weather protection procedures. Verify that wall cavities are protected against precipitation.
9. Evaluation of Masonry Strength	ICC-SMSI	Test compressive strength of mortar and grout cube samples (ASTM C780). Test compressive strength of masonry prisms (ASTM C1314).
10. Anchors and Ties	ICC-SMSI	Inspect size, location, spacing and embedment of dowels, anchors and ties.
11. Other:		

# **Structural Steel**

Item	Agency # (Qualif.)	Scope
<ol> <li>Fabricator Certification/ Quality Control Procedures</li> <li>Fabricator Exempt</li> </ol>	AWS/AISC- SSI ICC-SWSI	Review shop fabrication and quality control procedures.
2. Material Certification	AWS/AISC- SSI ICC-SWSI	Review certified mill test reports and identification markings on wide-flange shapes, high-strength bolts, nuts and welding electrodes
3. Open Web Steel Joists		Inspect installation, field welding and bridging of joists.
4. Bolting	AWS/AISC- SSI ICC-SWSI	Inspect installation and tightening of high-strength bolts. Verify that splines have separated from tension control bolts. Verify proper tightening sequence. Continuous inspection of bolts in slip- critical connections.
5. Welding	AWS-CWI ASNT	Visually inspect all welds. Inspect pre-heat, post-heat and surface preparation between passes. Verify size and length of fillet welds. Ultrasonic testing of all full-penetration welds.
6. Shear Connectors	AWS/AISC- SSI ICC-SWSI	Inspect size, number, positioning and welding of shear connectors. Inspect suds for full 360 degree flash. Ring test all shear connectors with a 3 lb hammer. Bend test all questionable studs to 15 degrees.
7. Structural Details	PE/SE	Inspect steel frame for compliance with structural drawings, including bracing, member configuration and connection details.
8. Metal Deck	AWS-CWI	Inspect welding and side-lap fastening of metal roof and floor deck.
9. Other:		





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# 90.1 (2004) Standard

Report Date: 10/07/08 Data filename: P:\2007\07133\08-CODES\ComCheck.cck

# **Section 1: Project Information**

Project Type: New Construction Project Title : TD Banknorth- Westgate Plaza

Construction Site: 1410 Congress Street Portland, ME 04101 Owner/Agent: Emily Clark TD Banknorth 70 Gray Road West Falmouth, ME 04105 207-317-5103 Emily.Clark@tdbanknorth.com Designer/Contractor: Jennifer Roy Symmes, Maini & McKee 1000 Massachusetts Ave Cambridge, MA 02138 617-520-9261 jroy@smma.com

# **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: Vertical Glazing / Wall Area Pct.: Portland, Maine 7378 1943 Non-Residential 24%

Building Type Retail Floor Area 3000

# Section 3: Requirements Checklist

#### Envelope PASSES: Design 20% 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: Insulation Entirely Above Deck	3000		30.0	0.032	0.063
Exterior Wall 1: Steel-Framed, 16" o.c.	2430	19.0	5.0	0.071	0.084
Window 1: Metal Frame:Double Pane with Low-E, Clear, Fixed, SHGC 0.49	526			0.440	0.570
Door 1: Glass, Clear, SHGC 0.49	48			0.440	0.570
Door 2: Insulated Metal, Swinging	21			0.350	0.700
Floor 1: Slab-On-Grade:Unheated	221				

(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.
- $\square$  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.
- □ 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.

Project Title: TD Banknorth- Westgate Plaza Data filename: P:\2007\07133\08-CODES\ComCheck.cck



• Geotechnical Engineering • Field & Lab Testing • Scientific & Environmental Consulting

1

## MEMORANDUM

То:	Emily Clark / TD Banknorth
From:	Emily Clark / TD Banknorth Matthew Lilley / S. W. COLE ENGINEERING, INC
Project No.:	08-0395
Date:	10/6/2008
Subject:	Plan Review Questions and Response Item No. 2 Proposed Bank – Westgate Plaza, Portland, ME

We have reviewed item no. 2 from the Plan Review Questions and Responses. We understand that the City of Portland has not adopted IBC 2006 at this time and is currently using IBC 2003. The seismic site class given in our geotechnical report was based on IBC 2006, however, the methodology used to calculate seismic site class is the same in both IBC 2003 (refer to table 1615.1.1 and section 1615.1.5) and IBC 2006 (refer to table 1613.5.2 and section 1613.5.5). The seismic site class as calculated is appropriate for both IBC 2003 and IBC 2006.

If you have any questions, please do not hesitate to contact us.

# BUILDING PERMIT INSPECTION PROCEDURES

# Please call 874-8703 or 874-8693 (ONLY) to schedule your inspections as agreed upon Permits expire in 6 months, if the project is not started or ceases for 6 months.

The Owner or their designee is required to notify the inspections office for the following inspections and provide adequate notice. Notice must be called in 48-72 hours in advance in order to schedule an inspection:

By initializing at each inspection time, you are agreeing that you understand the inspection procedure and additional fees from a "Stop Work Order" and "Stop Work Order Release" will be incurred if the procedure is not followed as stated below.

A Pre-construction Meeting will take place upon receipt of your building permit.

- X Footing/Building Location Inspection: Prior to pouring concrete or setting precast piers
- X Foundation Inspection: Prior to placing ANY backfill for below grade occupiable space
- X Framing/Rough Plumbing/Electrical: Prior to Any Insulating or drywalling
- X Final/Certificate of Occupancy: Prior to any occupancy of the structure or use. NOTE: There is a \$75.00 fee per inspection at this point.
- X The final report of Special Inspections shall be submitted prior to the final inspection or the issuance of the Certificate of Occupancy

Certificate of Occupancy is not required for certain projects. Your inspector can advise you if your project requires a Certificate of Occupancy. All projects <u>DO</u> require a final inspection.

If any of the inspections do not occur, the project cannot go on to the next phase, REGARDLESS OF THE NOTICE OR CIRCUMSTANCES.

CERIFICATE OF OCCUPANICES MUST BE ISSUED AND PAID FOR, BEFORE THE SPACE MAY BE OCCUPIED.

10/24/03

Signature of Applicant/Designee

Signature of Inspections Official

Date





A Terracon company 201 Hammer Mill Road Rocky Hill, CT 06067 Phone (860) 721-1900 Fax (860) 721-1939 www.terracon.com

Ste Class E V Dogn GtKMA

Advance Copy by Email

JGI Project No: J3075505

October 30, 2007

Ms. Karen Johnson Charter Realty and Development Corporation 800 Westchester Avenue, Suite S-632 Rye Brook, NY 10573

Re: Geotechnical Evaluation Proposed Bank Westgate Plaza Portland, Maine

Dear Ms. Johnson,

JGI EASTERN, Inc., A Terracon Company (JGI), is pleased to present this geotechnical engineering evaluation of subsurface conditions as they relate to foundation and pavement design and earthwork construction for the above-referenced project. Our services were conducted in general accordance with our August 31, 2007 proposal, and are subject to the limitations contained herein. JGI is also preparing a Phase I Environmental Site Assessment and Limited Site Investigation for the site, which will be submitted under separate cover.

#### SITE AND PROJECT DESCRIPTION

The property is located southwest of the intersection of Congress Street and Stevens Avenue in the City of Portland, Maine, as shown on Figure 1, Site Location Map. The property is currently developed as the Westgate Shopping Plaza with the associated parking and landscaped areas. The topography of the site is relatively level between Elevation (El) 46 to 48 feet.

The project includes the construction of a bank at the northern portion of the site, just to the east of the existing secondary access drive to the shopping plaza. The exact size and location of the proposed structure has not been finalized. However, we have estimated that the size of the bank will be less than 5,000 square feet (sf). In addition, we understand that the building will be constructed partially over the footprint of a former gas station, which has since been demolished. We further understand that building improvements are also planned to the existing Friendly's Restaurant located

Page	1

From:	Tammy Munson
To:	Chris Hanson
Date:	8/22/2008 1:30:01 PM
Subject:	TD Bank North

We need a spec book too.

Ms. Karen Johnson Page 2 October 30, 2007

both buildings. The finished floor elevations (FFE) of the buildings were not provided prior to the issuance of this report. However, based on the existing site topography, we have assumed that the FFE will be at or near (less than one foot) existing grade. Should the grade be raised higher than 1 foot, we request the opportunity to review our recommendations herein.

#### SUBSURFACE EXPLORATIONS AND CONDITIONS

JGI monitored the advancement of 7 test borings (JB-5 through JB-11) by Maine Test Borings, Inc. of Brewer, Maine on September 19 though 21, 2007 using a truck-mounted drill rig. Test borings JB-5 through JB-8 were advanced proximal to the proposed building. The remaining test borings were advanced around the existing Friendly's building. The test borings were advanced with 3<sup>1</sup>/<sub>4</sub>-inch inside diameter hollow stem augers (HSA) to depths ranging from 12 to 27.5 feet. Standard Penetration Tests (SPTs) were performed at sampling intervals by driving the split spoon sampler with a 140-pound hammer, falling 30 inches. The approximate test boring locations are shown on Figure 2, Subsurface Exploration Location Plan. The test boring logs are attached.

The subsurface profile generally consists of asphalt over fill, underlain by a marine deposit. Asphalt (approximately 3 inches) was encountered in all of the test borings. Fill was encountered directly below the asphalt and extends to depths ranging from 1.5 to 2 feet. The fill generally consists of dense to very dense, brown to tan, coarse to fine sand, some to and gravel, trace to little silt. The marine deposit was encountered below the fill and extends beyond the depth of the explorations. However, probes were advanced beyond the sampling depths in two of the test borings to evaluate the thickness of the marine deposit. Probe refusal, presumably on dense glacial till or bedrock, was encountered in JB-8 and JB-9 at a depth of 72.5 to 47.5 feet, respectively. The marine deposit consists of an upper layer of stiff to very stiff, brown, silt and clay, trace to little medium to fine sand and a lower layer of very soft to soft, blue-gray clay. The upper layer of the marine deposit extends to a depth of about 7 to 8.5 feet.

Groundwater was encountered all of the test borings completed as part of our subsurface evaluation at depths ranging from 7 to 9.5 feet. However, the groundwater level will vary depending upon season, precipitation, and other conditions that may differ from those at the time of drilling.

#### Field Testing

*In-situ* Vane Shear Testing (ASTM D2573-72) was performed in two of the test borings advanced in the areas of proposed development. The vane shear tests measured the peak and remolded shear strengths of the marine deposit at various depths. The results of the tests were used for foundation design and settlement estimation, and to evaluate the sensitivity ( $S_t$ ) of the clay. The *in-situ* shear test results are shown on the test boring logs (JB-6 and JB-9).

Ms. Karen Johnson Page 3 October 30, 2007

## **GEOTECHNICAL EVALUATION**

#### **Building Foundation Type and Design Criteria**

Provided the site grade is not increased by more than one foot, the proposed bank building and additional footings at the Friendly's building, if constructed, may be supported on shallow spread footings deriving support from the undisturbed native marine deposit, or from structural fill placed on the native marine deposit. If the site grade is raised by more than one foot, we estimate that the marine deposit may consolidate in excess of an inch, which may not be acceptable. Grade changes greater than a couple of feet would likely require a preload to induce settlements prior to building construction or a deep foundation system. We therefore recommend that the finished floor elevation of the buildings and the impact it has on construction be carefully evaluated prior to finalizing the design.

The existing fill is not suitable for foundation support and should be removed within the foundation bearing zone, defined as the volume beneath 1H:1V lines extending downward and outward from the lower edges of the footings. During our investigation, the fill was only encountered to a depth of about 2 feet. However, we understand the area of the bank was formerly a gas station, which likely had underground storage tanks. As such, fill may therefore be encountered at depths in excess of 8 feet in the footprint of the proposed bank. We estimate that the fill depths, adjacent to the existing Friendly's building, would extend to the depth of the existing footings, which are likely installed at a depth of about 4.5 feet for frost protection.

Where shallow spread footings derive support from the undisturbed marine silt and clay deposit (i.e. not on structural fill placed following the overexcavation of deeper fills), a concrete mud slab at least 4 inches thick should be placed to protect the undisturbed marine deposit. Alternatively, the area under the footing location, and a 8-inch wide strip around spread footings and either side of strip footings should be overexcavated by 8 inches, a woven geotextile separation fabric (Mirafi 500X, or equivalent) placed, and then minus <sup>3</sup>/<sub>4</sub>-inch crushed stone placed with limited static compaction for seating on the geotextile separation fabric to raise the grade to underside of footing level.

Shallow spread footings should be designed using a maximum net allowable bearing pressure of 3 kips per square foot (ksf). The minimum widths of isolated spread and continuous strip footings should be 24 and 18 inches, respectively.

The underside of soil-supported footings should be at least 4.5 feet below the lowest exterior grade that is exposed to freezing, in accordance with the local building code ordinances. Interior footings, not exposed to outside temperatures, should be placed at least 1.5 feet below finished floor level. However, if interior footings are to be exposed to freezing temperatures during construction, the underside of interior footings should also be at least 4.5 feet below adjacent grade, or equivalent insulating material used. If construction occurs during cold weather, the soil bearing surfaces in exposed footing excavations should be protected from frost.

Ms. Karen Johnson Page 4 October 30, 2007

#### Floor Slab Design Criteria

Floor slabs may be soil supported, bearing on a minimum 12-inch thick layer of compacted structural fill with a maximum particle size of 2 inches. Excavated existing fill may be selectively reused as structural fill at depths in excess of 12 inches below the underside of the slab. A modulus of subgrade reaction  $(k_s)$  of 225 pounds per cubic inch may be used for design of slabs-on-grade. Compacted structural fill should be used to raise the grade and as backfill for utilities located below the floor slab, except where bedding material is used to seat the utilities. A vapor barrier will be required below concrete slabs-on-grade.

An ultimate friction factor  $(\tan \delta)$  of 0.4 may be used for the calculation of the sliding resistance between the native soils and concrete surfaces. An ultimate friction factor  $(\tan \delta)$  of 0.5 may be used for the calculation of the sliding resistance between imported structural fill or crushed stone and concrete surfaces. A factor of safety of at least 1.5 should be applied to the calculated ultimate sliding resistance.

Existing fill, where encountered, is not suitable for slab-on-grade support and should be removed under the slab. Compacted structural fill should be used to raise the grade below slabs and as backfill for utilities located below the slab. Structural fill within 12 inches of the underside of the floor slab should have a maximum particle size of 2 inches.

#### Seismic Design Criteria

Seismic design requirements for the State of Maine are based on the Maine Model Building Code, which incorporates the Seismic Design Category approach from the 2003 International Building Code. The Seismic Design Category determination is based on:

- Building Importance (grouping based on use of building)
- Mapping factors (expected maximum considered ground motions)
- Site classification (soil type)

From our test borings and in-situ shear strength testing, we consider that the site subsurface conditions within the building pad generally match the soil profile of "soft soil profile". The Site Class is therefore E. We expect that the bank building would not represent a substantial hazard to human life in the event of a collapse or significant failure, i.e. Category I Seismic Use Group. Based on the above, and a review of USGS National Seismic Hazard Mapping, we would consider the bank building to be in Seismic Design Category D. These determinations should be confirmed by the structural engineer. The site does not appear to be susceptible to liquefaction in the event of an earthquake.

Ms. Karen Johnson Page 5 October 30, 2007

## **Compacted Fill**

**Structural Fill:** Structural fill should be free of organic, frozen, or other deleterious material and conform to the gradation requirements in Table 1. Structural fill should have a plasticity index (PI) no greater than 5. Visual classification and sieve analyses indicate that the excavated existing fill may be selectively re-used as structural fill, provided it can be compacted. However, based on our visual classification, excavated marine deposit will not be suitable for re-use as structural fill.

Structural fill should be placed in loose lifts not exceeding 12 inches in thickness for self-propelled vibratory rollers and 8 inches for vibratory plate compactors. Structural fill placed within the foundation bearing zone and below the floor slab should be compacted to at least 95 percent of the maximum dry density, as measured by ASTM D1557, Method C. The foundation bearing zone is the volume within 1H:1V lines drawn outward and downward from the lower edges of the footing.

**Common Fill:** Common fill should consist of mineral soil, free from frozen soil, debris, organic, or other deleterious material. Common fill should have a PI no greater than 10. Much of the native soil will not be suitable for reuse as common fill. However, parts of the marine deposit have higher percentages of sand and may be suitable for reuse as common fill, provided the PI is not greater than 10 and the soil can be uniformly dried to an appropriate moisture content before attempting to apply compactive effort. The field geotechnical engineer can provide guidance on the possible use of native soils as common fill. The contractor should be aware of the limitations of the native soils for use as common fill before attempting to use them.

Imported common fill should have a maximum particle size of 8 inches with no more than 25 percent by weight passing the No. 200 sieve. Common fill may be used to achieve finished grades outside the building footprint and foundation bearing zones. Common fill should be placed in the lift thickness recommended above for structural fill.

Common fill below pavements and sidewalks should be compacted to at least 95 percent of the maximum dry density, as determined by ASTM D1557. Elsewhere on the site, common fill should be compacted to at least 92 percent of the maximum dry density, as determined by ASTM D1557.

#### Support of Site Appurtenances

Site underground utilities, drainage structures, light standard foundations, and the like may be soil supported. Foundations for such structures should use a net allowable bearing pressure of 2 ksf. Subgrades for site appurtenances should be prepared in a similar manner to the subgrades of building foundations. To reduce the likelihood of frost heave, the underside of foundation elements should be

Ms. Karen Johnson Page 6 October 30, 2007

at least 4.0 feet below finished ground surface adjacent to the foundation element. **Pavement Design** 

Flexible pavement designs for standard- and heavy-duty sections are based on the AASHTO Guide for Design of Pavement Structures (1993). The thickness of each pavement course is a function of subgrade strength, traffic, design life, serviceability factors, and frost susceptibility. A 20-year design life and 20,000 18-kip Equivalent Axle Loads (EALs) were used for standard-duty pavement design. A 20-year design life and 75,000 EALs were used for heavy-duty pavement design. A California Bearing Ratio (CBR) value of 3 was used for pavement design. The following is a summary of design recommendations. References have been made to the State of Maine Department of Transportation (MEDOT) Standard Specifications, Revision of December 2002.

	Thickness (inches)		
Pavement Material	<b>Standard Duty</b>	Heavy Duty	
Bituminous Concrete Wearing Course	1.5	1.5	
Bituminous Concrete Binder Course	1.5	2.5	
Granular Base MEDOT Section 703.06 a. Type A	6.0	6.0	
Granular Subbase MEDOT Section 703.06 b. Type D	6.0	6.0	

The granular materials should be compacted to at least 95 percent of the maximum dry density, as measured by ASTM D1557, Method C. Bituminous concrete should be placed in general accordance with MEDOT standards and compacted to at least 92 percent as compared to Marshall test methods. However, in a subsequent section of this report, we have provided an option to scarify the existing asphalt and mix it with the gravel base in order to reuse the site materials. Specific recommendations for this procedure and the pertinent specifications are included in the subsequent section.

#### **CONSTRUCTION CONSIDERATIONS**

#### Foundation and Slab Subgrade Preparation

The foundation bearing subgrades should be prepared and reviewed as outlined in this report prior to foundation construction. Fill or concrete should not be placed on frozen subgrades, nor should frozen materials be used as fill. Existing fill is not suitable for foundation support and should be removed within the foundation bearing zone. The slab and foundation subgrades consisting of native marine deposits should be carefully excavated with a flat blade bucket to reduce disturbance to the subgrade. Geotextile separation fabric should be placed over the marine deposit prior to the placement of structural fill or crushed stone.

Where the foundations are deriving support from the marine deposit, the foundation subgrade should consist of either a mud slab on the undisturbed silt and clay, or an 8-inch thickness of crushed stone placed on geotextile separation fabric on the undisturbed silt and clay. To reduce the likelihood of disturbance to the bearing soil, the exposed marine deposit should not be proofrolled.

Ms. Karen Johnson Page 7 October 30, 2007

Elsewhere, the exposed subgrade should generally be proofrolled with at least six passes of a 5-ton (minimum static weight) roller operated initially in static mode. The degree of proofrolling and the application of vibratory impact will be adapted by the site geotechnical engineer to the soil conditions encountered. The intent of an adjustment to the proofrolling will be to reduce the likelihood of disturbing the underlying soils. During the proofrolling process, the subgrade should be observed to identify soft or loose areas by the geotechnical engineer or his representative.

## **Pavement Subgrade Preparation**

Parking and driveway areas should be stripped of bituminous concrete. The resulting subgrade will likely consist of existing granular fill, unless the fill thickness decreases in areas of the site where test borings were not advanced. Soil subgrade, comprising the existing granular fill, should be proofrolled with at least six passes of a minimum 10-ton vibratory roller. During the proofrolling process, the subgrade should be observed by the geotechnical engineer to identify soft or loose areas. Soft/loose areas and unstable zones should be replaced with compacted common fill. Once proofrolling is successfully completed, depending on grade, common fill or subbase may be placed.

We consider that pavement reconstruction procedures may be appropriate for the existing bituminous concrete pavement, as discussed below.

## **Pavement Reconstruction**

The existing bituminous concrete may be scarified and mixed with the underlying granular fill to a depth of 12 inches below the existing grade. Grain size analyses should be performed on representative samples of the blended/mixed material to check that it is well graded, with a maximum 2-inch particle size and contains no more than 12 percent of the material passing a US No. 200 sieve. Blended material not meeting the above criteria should be reprocessed and mixed with additional sand and gravel, as needed. Once the minimum 12-inch layer of reclaimed bituminous gravel has been properly blended, it may be used in place as subbase/base or stockpiled for use as subbase elsewhere on the site.

We recommend that the reclaimed bituminous gravel be compacted to at least 95 percent of the maximum dry density, as determined by AASHTO T-180, Method D, rather than the ASTM specification.

#### **Potential Impact of Weather on Earthwork Activities**

The predominant soil subgrade generally consists of marine silt and clay, which because of high silt/clay content have a low permeability. Such soils are also sensitive to moisture and are adversely affected by construction traffic. Contractors experienced in earthwork construction in New England should be aware of this soil behavior and the effect that moisture and site traffic have on its workability. The contractor should include a contingency in his cost estimate to allow the use of imported suitable common fill and the disposal of unsuitable site soils, based on his assessment of the amount of overexcavation that may be required, the need for providing and placing geotextile and/or geogrid, and the use of crushed stone.

Ms. Karen Johnson Page 8 October 30, 2007

# **Construction Dewatering**

Dewatering will likely not be required during foundation construction. However, the contractor should be required to maintain a stable subgrade during construction. The contractor should prevent groundwater, if encountered, and surface water runoff from collecting in excavations. Subgrade soils that become unstable because of water and/or reworking by construction activity should be replaced with compacted structural fill or minus <sup>3</sup>/<sub>4</sub>-inch crushed stone, as necessary.

## **Temporary Excavations**

Temporary excavations deeper than 4 feet should be designed in compliance with recent governing regulations. Temporary excavation slopes should be cut to a stable incline or braced, depending upon the excavation depth and encountered subsurface conditions. Temporary excavation slopes should be monitored for signs of mass movement. If movements and/or potential stability problems are observed, work should cease; the geotechnical engineer should be immediately contacted. The responsibility for excavation safety and stability of temporary excavation slopes should lie solely with the contractor.

# **LIMITATIONS**

The analyses and recommendations submitted in this report are based upon the data obtained from the test borings. The nature and extent of variations from the conditions observed within the explorations may not become evident until construction. If variations then appear evident, JGI should re-evaluate the recommendations of this report.

We request the opportunity to review final design drawings and specifications to evaluate the appropriate implementation of our recommendations. In the event that changes in the nature, design, or location of the building are planned, the conclusions and recommendations contained in this report shall not be considered valid unless we review the changes, and the conclusions of the report are modified or verified by us in writing.

A geotechnical engineer should be retained to provide testing and monitoring services during the earthwork phase of the project. This is to observe compliance with our design concepts, specifications, and recommendations and to allow design changes in the event that subsurface conditions differ from those anticipated prior to the start of construction.

This report has been prepared for the exclusive use of Charter Realty and Development Corporation in accordance with generally accepted soil and foundation engineering practices. No other warranty, expressed or implied, is made. This report has been prepared for preliminary design purposes and may be limited in its scope to complete an accurate bid. Contractors wishing a copy of the report may secure it with the understanding that its scope is limited to evaluation only. Ms. Karen Johnson Page 9 October 30, 2007

If you have questions, please contact us. It was a pleasure working with you on this project and we look forward to continuing our work as the project progresses.

Very truly yours,

JGI EASTERN, Inc.

A Terracon Company Robert W. Olah, P.E.

Geotechnical Engineer

14h

Ryan R. Roy, P.E. Principal/Senior Engineer

/ekc/J3075505

Attachments: Table 1 – Gradation Requirements Figure 1 – Site Location Map Figure 2 – Subsurface Exploration Location Plan Test Boring Logs

#### Table 1

# West Gate Plaza Portland, Maine Project No. J3075505

# **Gradation Specifications**

		Percent Pa	ssing by Weight	
Sieve	Structural <sup>1</sup>	Aggregate <sup>2</sup>	Aggregate <sup>3</sup>	Common
Size	Fill	for Subbase	for Base	Fill
8"	100			100
6"		100		
4''				
3"	70 - 100			
2"	(100) <sup>1</sup>		100	
3/4"	45 - 95			
1/2"			45 - 70	
1/4"		25 - 70	30 - 55	
No. 4	30 - 90			
No. 10	25 - 80			
No. 40	10 - 50	0 - 30	0 - 20	
No. 200	0 - 12	0 - 7	0 - 5	0 - 25

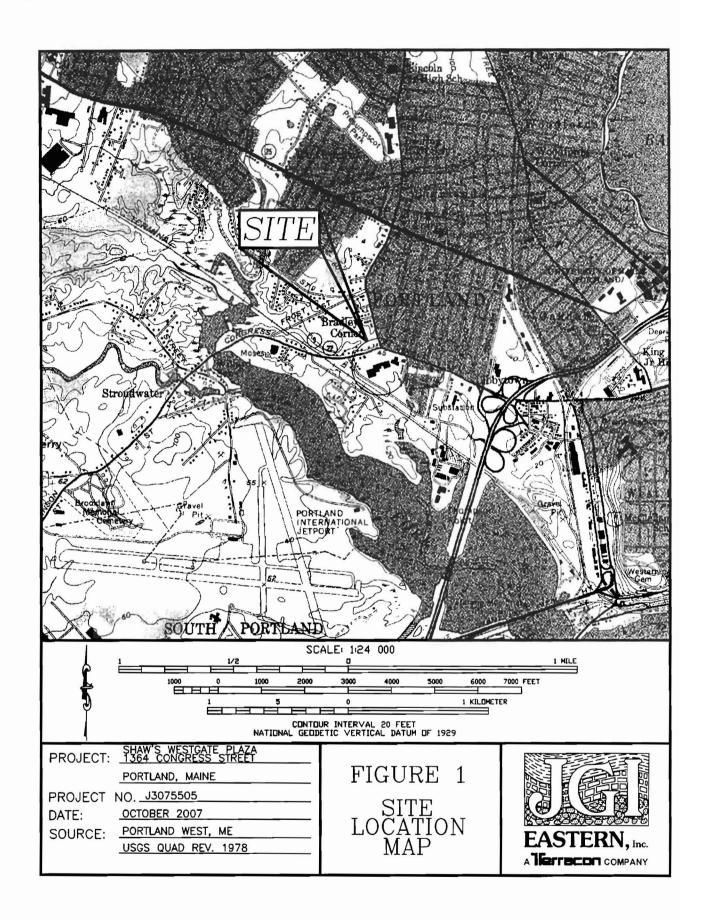
#### Notes:

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<sup>1</sup> Two inch maximum particle size within 12 inches of underside of slab-on-grade

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- <sup>2</sup> From Maine Department of Transportation Standard Specifications Revision of December 2002, Section 703.06 b. Type D
- <sup>3</sup> From Maine Department of Transportation Standard Specifications Revision of December 2002, Section 703.06 a. Type A



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PCL XL error

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Subsystem:	VECTOR
Error:	InsufficientMemory
Operator:	LineRelPath
Position:	12838

