

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK

CITY OF PORTLAND

PERMIT

Please Read Application And Notes, If Any, Attached

Permit Number: 040917

Permit Issued: JUL 13 2004

CITY OF PORTLAND

420 A003001

299 Presumpscot St

build new 505 sq ft addition to commercial class building

Miele Patrick & Victoria E. J. Hardy

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

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

Notification inspection must be given and when permit is produced before this building or structure there shall be a copy of this permit and a copy of the notice required.

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

OTHER REQUIRED APPROVALS

Fire Dept. *[Signature]*

Health Dept.

Appeal Board

Other _____

Department Name _____

[Signature] Director - Building & Inspection Services

7/13/04

PENALTY FOR REMOVING THIS CARD

City of Portland, Maine - Building or Use Permit Application

389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716
 Permit No: 04-0912
 Issue Date: PERMIT ISSUED
 CBL: 420 A003001

Location of Construction: 299 Presumpscot St	Owner Name: Miele Patrick & Victoria E Jrs	Owner Address: 157 Foreside Rd	Issue Date: JUL 1 9 2004	Phone: 775-2676
Business Name: HardyPond Construction	Contractor Name: HardyPond Construction	Contractor Address: 1039 Riverside St	Site of Portland:	Phone: 2077976066
Lessee/Buyer's Name:	Phone:	Permit Type: Additions - Commercial	Zone: I-M	

Past Use: commercial glass distributorship	Proposed Use: commercial glass distributorship w/505 sq ft addition	Proposed Project Description: build new 505 sq ft addition to commercial glass distributorship
INSPECTION: Type: F2 Date: 7/9/04 Signature: [Signature]	FIRE DEPT: Approved <input checked="" type="checkbox"/> Denied <input type="checkbox"/>	Signature: [Signature]
Permit Fee: \$399.00	Cost of Work: \$42,000.00	CEO District: 4

Permit Taken By: Jodinea	Date Applied For: 07/01/2004	Signature: [Signature]	Date: [Date]
Action: <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied <input type="checkbox"/>		Signature: [Signature]	
PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)		Signature: [Signature]	

Permit Taken By: Jodinea	Date Applied For: 07/01/2004	Special Zone or Reviews <input type="checkbox"/> Shoreland <input type="checkbox"/> Wetland <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input checked="" type="checkbox"/> Site Plan extension Maj <input type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/> Date: 7/7/04	Zoning Appeal <input type="checkbox"/> Variance <input type="checkbox"/> Miscellaneous <input type="checkbox"/> Conditional Use <input type="checkbox"/> Interpretation <input type="checkbox"/> Approved <input type="checkbox"/> Denied	Historic Preservation <input checked="" type="checkbox"/> Not in District or Landmark <input type="checkbox"/> Does Not Require Review <input type="checkbox"/> Requires Review <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied Date: [Signature]
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CERTIFICATION

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

SIGNATURE OF APPLICANT _____ ADDRESS _____ DATE _____ PHONE _____
 RESPONSIBLE PERSON IN CHARGE OF MOXX TITLE _____ DATE _____ PHONE _____

City of Portland, Maine - Building or Use Permit

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

Permit No: 04-0912	Date Applied For: 07/01/2004	CBL: 420 A003001
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Location of Construction: 299 Presumpscot St	Owner Name: Miele Patrick & Victoria E Jrs	Owner Address: 157 Foreside Rd	Phone: () 775-2676
Business Name:	Contractor Name: HardyPond Construction	Contractor Address: 1039 Riverside St Suite 11 Portland	Phone: (207) 797-6066
Lessee/Buyer's Name	Phone:	Permit Type: Additions - Commercial	

Proposed Use:

commercial glass distributorship w/505 sq ft addition

Proposed Project Description:

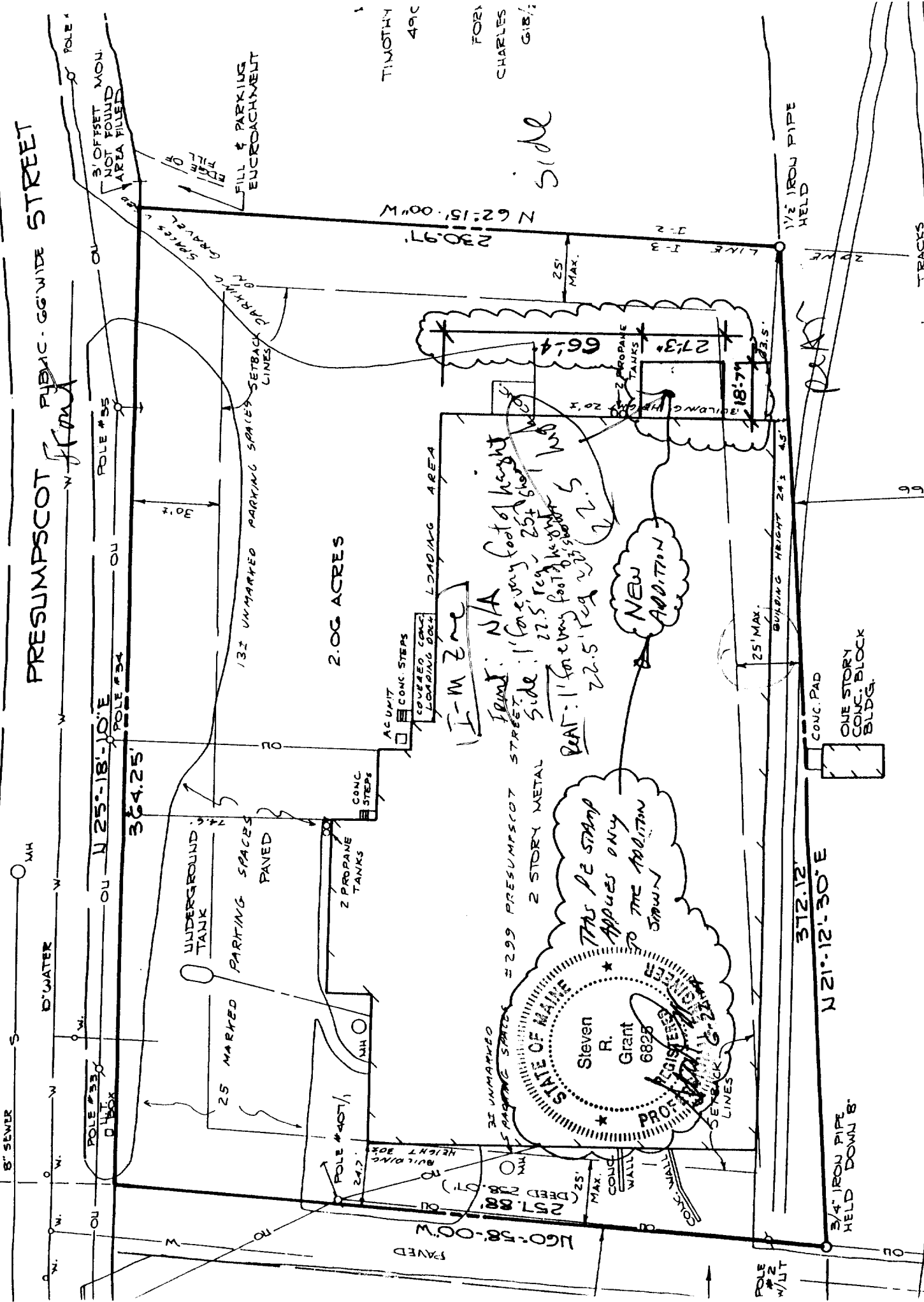
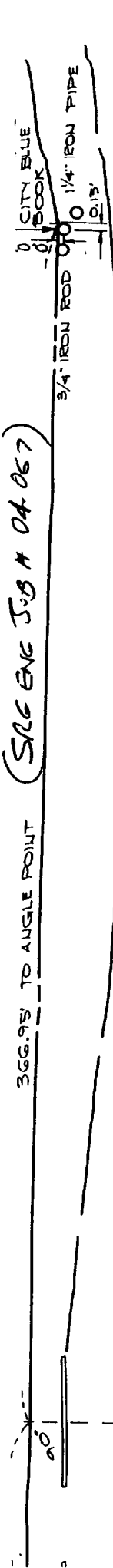
build new 505 sq ft addition to commercial glass distributorship

Dept: Zoning Status: Approved Reviewer: Marge Schmuckal Approval Date: 07/07/2004 **Note: Ok to Issue:**

Dept: Building Status: Approved Reviewer: Mike Nugent Approval Date: 07/09/2004 **Note: Ok to Issue:**

Dept: Fire Status: Approved Reviewer: Lt. MacDougal Approval Date: 07/07/2004 **Note: Ok to Issue:**

SRC ENG JOB # 04.067



TIMOTHY 49C
 FOZEY CHARLES 618 1/2

side

FRONT: N/A for every foot of height
 SIDE: 1' for every foot of height
 REAR: 1' for every foot of height

THIS IS STAMP APPLIES ONLY TO THE ADDITION STRAIN

STATE OF MAINE
 Steven R. Grant
 6825 REGISTERED ENGINEER
 PROFESSIONAL SEAL

ONE STORY CONG. BLOCK BLDG.

TRACKS

**City of Portland, Maine
Planning And Urban Development**

Application For Exemption From Site Plan Review

Applicant: Miele Patrick & Victoria E Jts
Phone: _____

Address: 157 Foreside Rd

City: Falmouth ME 04105
State: ME Zip: 04105

Consultant/Agent: Miele Patrick & Victoria E Jts
Phone: _____

Description of Proposed Development: 18'5 x 26'11 building addition.

Application Date: 05/12/2004
Application ID: 20040091

Exemption: _____
Project Name/Description: _____

420 A003001
CBL: _____

Address of Proposed Site: 299 Presumpscot St

PLEASE ATTACH SKETCH/PLAN OF PROPOSAL/DEVELOPMENT

Applicant (Yes, No, N/A)

Criteria for Exemptions:

a) within existing structures: No New Buildings, Demolitions or Additions

b) footprint increase less than 500 sq ft

c) no new curb cuts, driveways, parking areas

d) curbs and sidewalks in sound condition and comply with ADA

e) no additional parking / no traffic increase

f) no stormwater problems

g) sufficient property screening

h) adequate utilities

Planning Office	No
_____	Yes
_____	Yes
_____	Yes
_____	Yes
_____	Yes
_____	Yes
_____	Yes
_____	Yes

Planning Office Use Only:

Exemption Granted: 05/13/2004

Partial Exemption: _____

Exemption Denied: _____

Conditions (if any):

Depl Condition

Planning: Any future additions will require installation of granite curb, sidewalk and street trees along frontage.

Planner's Signature: _____

Date: _____

GK# 4308

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

Signature of applicant: [Signature] Date: 6/25/04

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 Officials 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.

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

We will contact you by phone when the permit is ready. You must come in and pick up the permit and review the requirements before starting any work, with a Plan Reviewer. A stop work order will be issued and a \$100.00 fee if any work starts before the permit is picked up. PHONE: 797-6066

Contractor's name, address & telephone: HARDYBOND CONSTRUCTION
1039 RIVERSIDE ST SUITE 111
ROBTMND MR OFFCS
04103
 Who should we contact when the permit is ready: BOB GARDNER
 Mailing address: SAWR

Current use: Commercial Class Dist
 If the location is currently vacant, what was prior use: NA
 Approximately how long has it been vacant: NA
 Proposed use: ADDITION FOR GLASS FURNACE BLOWERS
 Project description:

Lessee/Buyer's Name (if Applicable) <u>Sisco Inc</u>		Applicant name, address & telephone: <u>HARDYBOND CONSTRUCTION</u> <u>1039 RIVERSIDE ST SUITE 111</u> <u>ROBTMND MR OFFCS</u> <u>04103</u> <u>797-6066</u>	
Tax Assessor's Chart, Block & Lot Chart# <u>430</u> Block# <u>A</u> Lot# <u>003</u>		Owner: <u>775-2676</u> Telephone:	
Total Square Footage of Proposed Structure <u>SOS SOFT</u>		Square Footage of Lot <u>2.06 AC</u>	
Location/Address of Construction: <u>299 RIVERSIDE ST</u>			
Cost Of Work: <u>\$42,000</u> Fee: <u>\$404.00</u>			

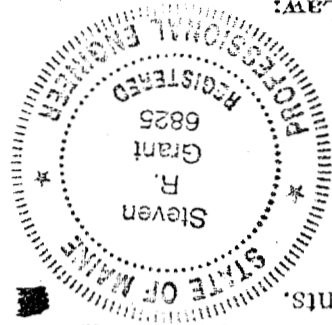
If you or the property owner owes real estate or personal property taxes or user charges on any property within the City, payment arrangements must be made before permits of any kind are accepted.

All Purpose Building Permit Application

JUN 30 2004

\$50,000.00 or more in new construction, repair, expansion, addition, or modification for Building or Structures, shall be prepared by a registered design Professional.

As per Maine State Law:



(SEAL)

and local amendments.

Engineer according to the BOCA National Building Code / 1999 (Fourteenth Edition) Have been designed and drawn up by the undersigned, a Maine registered Architect /

Signature: *Steven R. Grant*
Title: *President*
Firm: *SRG ENGINEERING, INC.*
Address: *P.O. Box 925
GRAY, ME 04039*

Sierra Glass Inc

These plans and / or specifications covering construction work on:

DATE: *6-28-04*
RE: *Certificate of Design*

FROM: *STEVEN R. GRANT*

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

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



DEPT. OF PLANNING & URBAN DEVELOPMENT
420 A 003
JUN 30 2004

MAINE



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

TO:

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

FROM DESIGNER:

STEVEN R. GRANT, PE

SRG ENGINEERING, INC.
P.O. Box 925
GRAY, ME 04039

DATE:

6-23-04

Job Name:

SIGCO CLASS IN BROWN MOBILE

Address of Construction:

MESUMPSOT ST, PORTLAND

THE BOCA NATIONAL BUILDING CODE / 1999 (FOURTEENTH EDITION)
Construction project was designed according to the building code criteria listed below:

Building Code and Year 1999 BOCA Use Group Classification(s) F-2

Type of Construction RB DC PER DESIGNER 2/9/04

Structural Systems

Earthquake Loads (Does not control)

0.10 Peak velocity-related acceleration, Av

0.10 Peak acceleration, Aa

Seismic hazard exposure group I

Seismic performance category C

Soil profile type S3

Basic structural system/seismic-resisting system

Response modification factor, R, and deflection

amplification factor, Cd,

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

Wind Loads

Basic Wind Speed 95

Wind Exposure Category B

16.1

Wind Design Pressure

1.00

Wind Importance Factor

F 0.25

Internal Pressure Coefficient

All Purpose Building Permit Application

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

Location/Address of Construction: 299 Reservoir St	
Total Square Footage of Proposed Structure: SOS SAFT	Square Footage of Lot: 2.06 AC

Tax Assessor's Chart, Block & Lot Chart# Block# Lot#	Owner: Telephone: 775-2676
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Lessee/Buyer's Name (if Applicable): Sigco, Inc	Applicant name, address & telephone: HARDYPOD CONSTRUCTION, 1039 Riverside St Suite 111, PORTLAND, ME 04103, PHONE: 797-6066
Cost of Work: \$42,000	Fee: \$404.00

Current use: Commercial Class B Dist.	If the location is currently vacant, what was prior use: NA
Approximately how long has it been vacant: NA	Proposed use: Addition for Guest Furnace Blowers

Contractor's name, address & telephone: HARDYPOD CONSTRUCTION, 1039 Riverside St Suite 111, PORTLAND, ME 04103	Mailing address: SAFT
Who should we contact when the permit is ready: BOB GAUDREAU	
We will contact you by phone when the permit is ready. You must come in and pick up the permit and review the requirements before starting any work, with a Plan Reviewer. A stop work order will be issued and a \$100.00 fee if any work starts before the permit is picked up. PHONE: 797-6066	

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

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

Signature of applicant: [Signature]	Date: 6/25/04
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This is NOT a permit, you may not commence ANY work until the permit is issued. If you are in a Historic District you may be subject to additional permitting and fees with the Planning Department on the 4th floor of City Hall

The soil encountered at the site generally consists of fill. The existing fill encountered at the test pit consists of dark brown silty sand with a little clay and gravelly with a little mixing of light brown sand with a little silt and/or reworked olive gray silty clay. In general the fill is compact to firm. Occasional small cobbles, brick, and waste debris were encountered within the fill. The existing fill is generally classified as a SM soil in accordance with the Unified Soil Classification System (USCS).

3.0 Subsurface Conditions

Summit observed the subsurface conditions at the site with the excavation of one test pit on June 3, 2004. The test pit was excavated to a depth of 6 feet using a rubber tracked Bobcat X325 provided and operated by Hardy Pond Construction. The location of the test pit is approximately 10 feet north of the existing facility within the center of the proposed building addition. A log of the test pit is attached at the end of this letter.

2.0 Exploration and Laboratory Testing

The project will consist of constructing a new 18 by 24 foot building addition attached to the north side of the existing Sigco Glass facility located at 299 Presumpscot Street in Portland, Maine. We understand that the slab for the new building will be constructed at the existing ground surface to match the existing facility slab elevation. The building addition will serve to house 2 blower motors for the existing facility. Each blower will set on an 8 by 8 foot mat. The estimated contact pressure is less than 100 psf.

1.0 Project and Site

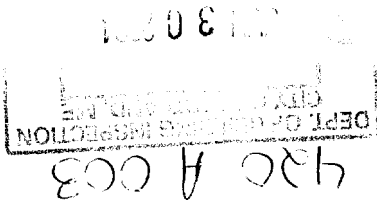
We have completed the geotechnical investigation in connection with the above mention project. Our scope of services included observing the excavation of one test pit at the proposed expansion site and preparing this letter summarizing our findings and geotechnical recommendations.

Dear Bob;

Reference: Geotechnical Investigation
Sigco Glass Addition, 299 Presumpscot Street, Portland, Maine

Hardy Pond Construction
Attn: Bob Gaudreau
1039 Riverside Street - Suite 11
Portland, Maine 04103

June 3, 2004
Summit #7837



Bedrock was not encountered in the test pit.
Groundwater seepage was not encountered in the test pit. Damp conditions for the fill encountered and site topography indicate that groundwater will be below the footing depths for the addition.

4.0 Foundation Recommendations

A. General

Based on the proposed finish floor elevation and the anticipated footing depth, the footings will be constructed on existing fill. With proper preparation, the existing fill will be suitable to construct the proposed building addition and equipment pads using a conventional spread footing and slab on grade foundation. The presence of a small amount of waste debris, and/or bricks will not adversely affect the spread footing foundation due to the small size and total amount of debris encountered.

B. Allowable Bearing Pressure

The footings for the building can be proportioned using an allowable bearing pressure of 3,000 psf. The total estimated settlement associated with this contact pressure will be less than 1 inch. This bearing pressure and associated settlement is based on the following conditions:

- All existing fill within the building addition area should be proof rolled prior to placing Foundation Backfill or Structural Backfill. Proof rolling should consist of a minimum of three passes in a north-south direction and then three passes in an east-west direction using a vibratory roller or largest vibratory compactor available.
- Any existing waste and/or construction debris larger than 6 inches or that may contain the potential for future decay such as wood, organics, etc. exposed directly beneath the footings is removed and replaced with granular fill.

We recommend that the addition be structurally isolated from the existing facility or methods be provided to reduce the effects of differential settlement, estimated to be 0.5 inches.

C. Frost Protection

Based on the required frost protection depth, the frost walls for the building should be constructed at a minimum depth of 4 feet. This frost penetration depth is based on a design air-freezing index of 1,250 degree days for the Portland area. We recommend that the exterior of the foundation walls be backfilled with soil having less than 5 percent passing a No.200 sieve. The Foundation Backfill should be compacted to a minimum of 95 percent of its maximum dry density, determined in accordance with ASTM D1557. The existing fill does not meet this requirement.

D. Building Slab

We recommend the slab be constructed on a minimum 6-inch thick layer of Structural Backfill. The maximum particle size should be limited to 6 inches and meet the following gradation specifications passing the 3-inch sieve:

STRUCTURAL BACKFILL	
Sieve Size	Percent finer
3 inch	100
1/4 inch	0 to 70
No. 200	0 to 10

Reference: MDOT Specification 703.20, Gravel Borrow

The Structural Backfill should be placed in 8 to 12-inch lifts and should be compacted to 95 percent of its maximum dry density determined in accordance with ASTM D1557.

E. Groundwater Control

Groundwater at the site will be below proposed footing depths. Based on this, perimeter underdrains are not necessary. Exterior grades should slope away from the building to reduce runoff water from infiltrating the foundation backfill.

F. Seismic Design

The soils at the site are categorized as Site Classification D in accordance with the 2003 International Building Code.

5.0 Earthwork Consideration

All existing fill within the building area should be proofrolled prior to placing Foundation Backfill or Structural Backfill. Existing fill can be reused onsite outside the Foundation Backfill. This soil should be compacted to a minimum of 95 percent of its maximum dry density, determined in accordance with ASTM D1557.

Excavations below 4 feet and above any groundwater should be sloped no greater than 1.5 H to 1 V. These slopes are based on the current OSHA Excavation Guidelines.

6.0 Closure

Our recommendations are based on professional judgment and generally accepted principles of geotechnical engineering. Some changes in subsurface conditions from those presented in this report may occur. Should these conditions differ materially from those described in this report, Summit should be notified so that we can re-evaluate our recommendations.

We appreciate the opportunity to serve you during this phase of your project. If there are any questions or additional information is required, please do not hesitate to call.

Sincerely yours,
Summit Geoen지니어ing Services,

Craig W. Coolidge
Craig W. Coolidge, E.I.T.
Geotechnical Engineer



William M. Peterlein
William M. Peterlein, P.E.
Principal Geotechnical Engineer

TEST PIT LOG		DESCRIPTION		DEPTH (ft)	
TEST Pit #	TP-1	Project #:	7837	Contractor:	Hardy Pond Construction
Project:	Sigco Glass Addition 299 Presumpscot Street Portland, ME	Reference:	Estimation from Site Visual Observation	Equipment:	Tracked Bobcat X325
Groundwater:	N/E	Date:	6/3/2004	Summit Staff:	Craig Coolidge, E.I.T.
		Ground Surface Elevation: Approx. at Exist. Building FFE			
		Weather: Overcast			
		FILL			
		ENGINEERING			
		GEOLOGIC/GENERAL			
		Compact dark brown Silty SAND, little Clay and Gravel, damp, SM, little mixing with reworked firm, olive gray and mottled Silty CLAY, damp, CL		0.5	
		Occasional small cobbles		1.0	
		Small amount of brick debris encountered		2.0	
		Compact dark brown Silty SAND, little Clay and Gravel mixing with light brown Sand, little Silt and Gravel, damp, SM-SP		2.5	
		Gravel, damp, SM-SP		3.0	
		Compact dark brown Silty SAND, little Clay and Gravel, damp, SM, little mixing with reworked firm, olive gray and mottled Silty CLAY, damp, CL		4.0	
		3.5 to 6.0 feet consisting of less than 5% for layer Small amount of waste debris encountered from		5.0	
		End of exploration at 6.0', no refusal encountered		6.0	
				6.5	
				7.0	
				7.5	
				9.5	
				10.0	

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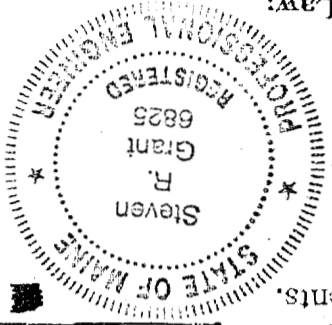
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STANDARD
A33

TRANSMISSION VERIFICATION REPORT

TIME : 06/11/2004 07:17
NAME :
FAX :
TEL :

\$50,000.00 or more in new construction, repair expansion, addition, or modification for Building or Structures, shall be prepared by a registered design Professional.

As per Maine State Law:



(SEAL)

and local amendments.

Have been designed and drawn up by the undersigned, a Maine registered Architect/Engineer according to the BOCA National Building Code / 1999 (Fourteenth Edition)

Signature: *Steven R. Grant*
Title: *President*
Firm: *SRG ENGINEERING, INC.*
Address: *P.O. Box 925
GRAY, ME 04039*

SIGCO GLASS INC

These plans and / or specifications covering construction work on:

DATE:

6-28-04

RE:

Certificate of Design

FROM:

STEVEN R. GRANT

TO:

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

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



420 ACC3
REIVE
30 2004



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

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

FROM DESIGNER: STEVEN R. GRANT, PE

SRC ENGINEERING, INC.
 P.O. Box 925
 GRAY, ME 04039

DATE:

6-23-04

Job Name:

SIGCO CLASS INE BROWN AMBLYN

Address of Construction:

Messumpscot St, Portland

THE BOCA NATIONAL BUILDING CODE / 1999 (FOURTEENTH EDITION)
 Construction project was designed according to the building code criteria listed below:

Building Code and Year 1999 Boca Use Group Classification(s) F-2

Type of Construction 2B

Structural Systems

Roof Snow Load 50 Ground Snow Load (Pg) 42
 If Pg > 10 psf, Flat Roof snow load, Pf
 If Pg > 10 psf, snow exposure factor, Ce 1
 If Pg > 10 psf, roof thermal factor 1
 If Pg > 10 psf, snow load importance factor 1
 Sloped Roof Snowload Ps 42

Earthquake Loads (Does not control)
 Peak velocity-related acceleration, Av 0.10
 Peak acceleration, Av 0.10
 Seismic hazard exposure group I
 Seismic performance category C
 Soil profile type S3
 Basic structural system/seismic-resisting system Bien Type
 Response modification factor, R, and deflection amplification factor, Cd R=6.5, Cd=4

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

Wind Loads 95 Basic Wind Speed B Wind Exposure Category 1
 Wind Design Pressure 1.00 Wind Importance Factor 1.00
 Internal Pressure Coefficient +0.25

S E A M

Structural Engineering Association of Maine

STATEMENT OF SPECIAL INSPECTIONS

JUN 3 0 2011

PROJECT: Sigo Glass Block Addition

LOCATION: Presumpscot St, Portland, ME

PERMIT APPLICANT: HAYDON CONSTRUCTION

APPLICANT'S ADDRESS: 1039 Riverside St

Portland ME 04103

STRUCTURAL ENGINEER OF RECORD: STEVEN R. GRANT SRS ENGINEERING, INC.

Name FIRM

ARCHITECT OF RECORD: (NONE REQUIRED)

Name FIRM

This Statement of Special Inspections is submitted in accordance with section 17 of the 1993 BOA National Building Code. It includes a listing of special inspections applicable to this project as well as the name of the Special Inspector, and the names of other agencies intended to be retained for conducting these inspections. (2000 International Building Code)

The Special Inspector shall keep records of all inspections listed herein, and shall furnish inspection reports to the Code Official and to the Registered Design Professional of Record. All discrepancies shall be brought to the immediate attention of the Contractor for correction. If the discrepancies are not corrected, the discrepancies shall be brought to the attention of the Code Official and to the Registered Design Professional of Record. Interim reports shall be submitted to the Code Official and to the Registered Design Professional of Record monthly, unless more frequent submissions are requested by the Code Official.

Job site safety is solely the responsibility of the Contractor. Materials and methods used to erect or install the materials listed.

Prepared By:

STEVEN R. GRANT

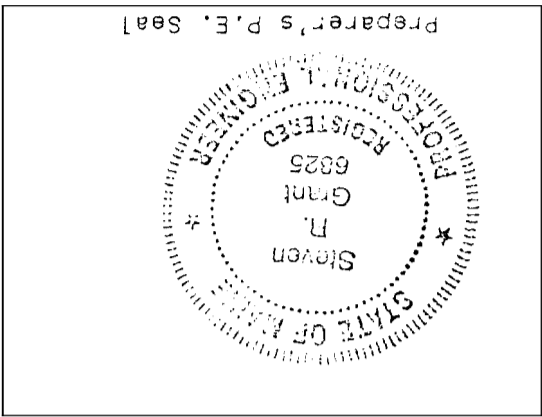
NAME

[Signature]

SIGNATURE

DATE

6-22-04



Building Code Official:

Applicant's Authorization:

SIGNATURE DATE

SIGNATURE DATE

3/15/94

Page 1 of 1

S E A M

Structural Engineering Association of Maine

LIST OF AGENTS

PROJECT: SIGCO GLASS BLOWER ADDITION

STRUCTURAL ENGINEER OF RECORD: STEVEN A. GANT - SIG ENGINEERING, INC.

Name: STEVEN A. GANT Firm: SIG ENGINEERING, INC.

Address: PO Box 925, GARY, ME 04039

ARCHITECT OF RECORD:

Name: (NONE REQUIRED) Firm: (NONE REQUIRED)

Address:

Following is the list of Agents selected for performance of "Special Inspections" for this project.

Name Firm

1. Special Inspector

2. Testing laboratory J. W. COLE ENG. INC. - COURT RIVER DAMINGO

3. Testing laboratory

- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.

PROJECT:

SCHEDULE OF SPECIAL INSPECTION SERVICES

MATERIAL/ACTIVITY	ITEM	SERVICE	APPLICABLE TO THIS PROJECT							
			Y/N	EXTENT (All, Sample, Other, Some)	COMMENTS	AGENT #	DATE COMPLETED	REV. #		
17053 STEEL CONSTRUCTION Steel Fabrication	1.00	In-plant review Part A - Fabrication procedures Part B - Procedures implementation Review conformance to Part A Review material certificates of compliance (Bolts, nuts, washers, structural steel, & weld filler material) Review connections Review welding of seismic-resisting system in Cat "C" buildings Review welder certification Review materials certificates of compliance (Bolts, nuts, washers, & weld filler material) Review primary steel connections Moment connections Shear connections Bracing connections Review welded Cat "C" seismic connections Review welded column splices Review base metal testing for "I" > 112" Review secondary steel connections Girts Steel deck Lintels Review installation of shear studs Review Details / Steel Frame	Y	SEE to determine extent after completion of Part A						
			✓							
			✓							
			NA							
			✓							
			NA							
			NA							
			NA							
			NA							
			NA							
			NA							
			NA							

NOT APPLICABLE

Steel Erection
(METAL FRAMING)

All Steel Construction Special Inspections have been completed in accordance with ~~BOCA~~ ^{IBC 2009} Chapter 17 Special Inspector _____ Date _____

NOTE: SWC INDICATES SW CODE
SAG INDICATES SAG BUSINESS

PROJECT:

SCHEDULE OF SPECIAL INSPECTION SERVICES

MATERIAL / ACTIVITY	ITEM	SERVICE	APPLICABLE TO THIS PROJECT						
			Y/N	EXTENT (All, Sample, Other, None)	COMMENTS	AGENT #	DATE COMPLETED	REV. #	
1705.3 STEEL CONSTRUCTION (Continued) Steel Joist & Joist Girders Fabrication	1.00	In-plant review Part A - Fabrication procedures Part B - Procedures implementation Review conformance to Part A							
Review material certificates of compliance (structural steel & weld filler material)									
Review connections									
Review welder certification									
Review joist bearing connections									
Review joist bearing length									
Review joist bridging									
Steel Joist & Joist Girder Erection									
Review connections									
Review material certificates of compliance (structural steel & weld filler material)									
Review connections									
Review welder certification									
Review joist bearing connections									
Review joist bearing length									
Review joist bridging									

NOT APPLICABLE

NOT APPLICABLE

All Steel Construction Special Inspections have been completed in accordance with DOCA Section 1705.3

Special Inspector _____

Date _____

PROJECT:

SCHEDULE OF SPECIAL INSPECTION SERVICES

PAGE 3 OF 7

MATERIAL/ACTIVITY	ITEM	SERVICE	APPLICABLE TO THIS PROJECT			AGENT #	DATE COMPLETED	REV. #
			Y/N	EXTENT (All, Sample, Other, None)	COMMENTS			
1705.4 CONCRETE CONSTRUCTION Concrete Materials	✓	Review materials (ACI Chapter 3)				SWC		
	✓	Review mix design (ACI Chapter 4)				SWC		
	✓	Review reinforcing certification & weldability test report Review condition & placement of reinforcing and prestressing sheet (ACI 318 7.4.7.7)				SWC		
	NA	Review welding of reinforcing in Cat "C" seismic-resisting systems						
Formwork	✓	Review formwork (ACI 318 6.1)				SWC		
	✓	Review form removal & reshoring (ACI 318 6.2)				SWC		
	✓	Review concrete strength tests (ACI 318 5.6)			SWC TO MAKE CYLINDERS	SWC		
Concrete Operations	✓	Review mix proportions and technique (ACI 318 5.2, 5.3, 5.4, & 5.8)				SWC		
	✓	Review concrete placement (ACI 318 5.9 & 5.10)				SWC		
	✓	Review curing technique & temperature (ACI 318 5.11, 5.12, & 5.13)				SWC		
	✓	Review application of prestressing force (ACI 318 18.18)				SWC		
Prestressing Operations <i>NOT APPLICABLE</i>		Review grouting of bonded prestressing tendons in Cat. "C" seismic-resisting systems						
		In-plant review Part A - Fabrication procedures						
Prestal Manufacturing <i>NA</i>		Part B - Procedures implementation Review conformance to Part A						
		Review erection of precast units						
		Review key reinforcement						
		Review key grouting						
Erection of Precast Concrete <i>NA</i>		Review concrete topping						
		Review connections						

All Concrete Construction Special Inspections have been completed in accordance with ~~BOCA~~ *IBC* Section 1903.4 *2000 IBC CHAPTER 17* Special Inspector _____ Date _____

PROJECT:

SCHEDULE OF SPECIAL INSPECTION SERVICES

MATERIAL/ACTIVITY	ITEM	SERVICE	APPLICABLE TO THIS PROJECT							
			Y/N	EXTENT (All, Sample, Other, None)	COMMENTS	AGENT #	DATE COMPLETED	REV #		
1705.5 MASONRY CONSTRUCTION Materials	3.00	Review materials certification Masonry units Reinforcing steel Review grout materials & mix design Review mortar materials & mix design Review strength determination Unit strength method Review unit strengths & grout: mortar mixes Prism strength method. Review pre-construction test results. Field tests during construction. Grout testing Determine compressive strength Mortar testing Field test compressive strength ASTM C780 (Reqd. only if property reqs of ASTM C270 are used) Review mortar mix proportions & mixing (ACI 530.1, 2.3.2.5) Review grout mix proportions & mixing (ACI 530.1, 4.2.2) Review general installation of mortar, grout, masonry units. (ACI 530.1, 2.3.3.3, 4.3.3) Review installation of horiz., vert., & joint reinforcing (incl. location, sizes, splices, & positioning devices) (ACI 530, Ch. 8) Review hot/cold weather procedures (ACI 530.1, 2.3.2.2, 2.3.2.3) Review installation of anchorage devices (ACI 530, 4.2.5.14) Review installation of lintels Review welding of reinf., grouting, consolidation and reconsolidation for seismic Cat. "C" buildings								

NOT APPLICABLE

NOT APPLICABLE

General Masonry Work

All Masonry Construction Special Inspections have been completed in accordance with ~~Boards~~ Boards

Special Inspector

Date

PROJECT:

SCHEDULE OF SPECIAL INSPECTION SERVICES

MATERIAL / ACTIVITY	ITEM	SERVICE	APPLICABLE TO THIS PROJECT						
			V/N	EXTENT (AIL, Sample, Other, None)	COMMENTS	AGENT #	DATE COMPLETED	REV #	
1705.6 WOOD CONSTRUCTION Wood Truss Fabrication	400	In-plant review Part A: Fabrication procedures Part B: Procedures implementation Review conformance to Part A Review member arrangement Check for TPI Stamp							
Wood Truss Materials		Review lumber Wood species Grade stamps Moisture content							
		Review connector plates Size Gage Orientation Location Fit							
Wood Truss Erection		Review storage at site							
		Review permanent bracing							
		Review field connections							
Glulam Fabrication		In-plant review Part A: Fabrication procedures Part B: Procedures implementation Review conformance to Part A							
Glulam Material		Review wood species and grade							
Glulam and Solid Timber Erec		Review connections							
		Bolted connections							
		Connection fittings							
Seismic Restraint System (Seis. Part. Cat. "C")		Review seismic connections Nailed connections Bolted connections Structural girded connections Other seismic fasteners							

All Wood Construction Special Inspections have been completed in accordance with ~~BOCA~~ IBC Code.

Special Inspector _____

Date: _____

SIGNATURE

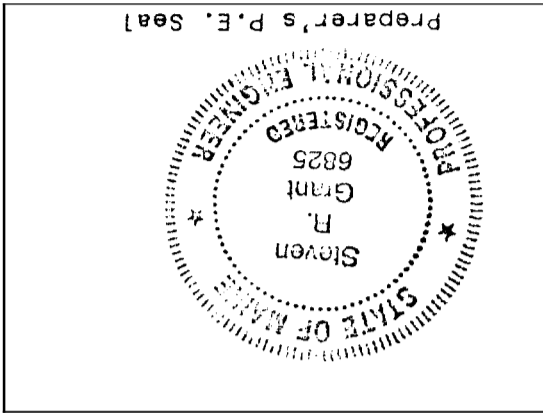
DATE

SIGNATURE

DATE

Applicant's Authorization:

Building Code Official:



Prepared By: STEVEN R. GRANT
 NAME: [Signature]
 SIGNATURE: [Signature]
 DATE: 6-22-04

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

The Special Inspector shall keep records of all inspections listed herein, and shall furnish inspection reports to the code official and to the Registered Design Professional of Record. All discrepancies shall be brought to the immediate attention of the contractor for correction. If the discrepancies are not corrected, the discrepancies shall be brought to the attention of the code official and to the Registered Design Professional of Record. Interim reports shall be submitted to the code official and to the Registered Design Professional of Record monthly, unless more frequent submissions are requested by the code official.

This statement of "Special Inspections" is submitted in accordance with Section 17 of the 1993 BGA National Building Code. It includes a listing of special inspections applicable to this project as well as the name of the special inspector, and the names of other agencies intended to be retained for conducting these inspections. (2000 International Building Code)

PROJECT: Sigco Glass Blower Addition
 LOCATION: Pleasant St, Portland, ME
 PERMIT APPLICANT: Harbord Construction
 APPLICANT'S ADDRESS: 1039 Riverside St
Portland ME 04103
 STRUCTURAL ENGINEER OF RECORD: STEVEN R GRANT
 Name: STEVEN R GRANT
 Firm: SIG ENGINEERING, INC.
 ARCHITECT OF RECORD: (NONE REQUIRED)
 Name: (NONE REQUIRED)
 Firm: _____

STATEMENT OF "SPECIAL INSPECTIONS"

JUN 3 0 1

Structural Engineering Association of Maine
 400 A 003
 S E A M

S E A M

Structural Engineering Association of Maine

LIST OF AGENTS

PROJECT: SIGCO GLASS BLOWER ADDITION

STRUCTURAL ENGINEER OF RECORD: STEVEN R. GRANT

SI&S ENGINEERING, INC. FIRM

PO Box 925, GAY, ME 04039

ARCHITECT OF RECORD:

(NONE REQUIRED)

Address

Name

Firm

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

Name

Firm

1. Special Inspector

J. W. COLE ENG. INC. - CONSULT ROBERT DOMINGO

2. Testing Laboratory

3. Testing Laboratory

- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.

SCHEDULE OF SPECIAL INSPECTION SERVICES

MATERIAL / ACTIVITY	ITEM	SERVICE	APPLICABLE TO THIS PROJECT								
			V/N	EXTENT (All, Sample, Other, None)	COMMENTS	AGENT #	DATE COMPLETED	REV #			
17055 MASONRY CONSTRUCTION Materials	3.00	Review materials certification Masonry units Reinforcing steel Review grout materials & mix design Review mortar materials & mix design Review strength determination Unit strength method Review unit strengths & grout, mortar mixes Prism strength method. Review pre-construction test results. Field tests during construction. Grout testing Determine compressive strength Mortar testing Field test compressive strength ASTM C780 (Reqd. only if property reqs of ASTM C270 are used)	 / 								
			 NOT APPLICABLE 								
			 NOT APPLICABLE 								
			 NOT APPLICABLE 								
			 NOT APPLICABLE 								
			 NOT APPLICABLE 								
			 NOT APPLICABLE 								
			 NOT APPLICABLE 								
			 NOT APPLICABLE 								
			 NOT APPLICABLE 								

All Masonry Construction Special Inspections have been completed in accordance with ~~Boards~~

Special Inspector _____

Date _____

PROJECT:

SCHEDULE OF SPECIAL INSPECTION SERVICES

PAGE 5 OF 2

MATERIAL / ACTIVITY	ITEM	SERVICE	APPLICABLE TO THIS PROJECT						
			V/N	EXTENT (All, Sample, Other, None)	COMMENTS	AGENT #	DATE COMPLETED	REV. #	
1705.6 WOOD CONSTRUCTION	4.00	In-plant review Part A: Fabrication procedures Part B: Procedures implementation Review conformance to Part A Review member arrangement							
Wood Truss Fabrication									
NA		Check for TPI Stamp							
		Review lumber Wood species Grade stamps Moisture content							
NA		Review connector plates Size Gage Orientation Location Fit							
		Review storage at site							
Wood Truss Erection		Review permanent bracing							
NA		Review field connections							
		In-plant review Part A: Fabrication procedures Part B: Procedures implementation Review conformance to Part A							
Chulam Fabrication		Review wood species and grade							
Chulam Material		Review connections							
Chulam and Solid Timber Erection		Boiled connections							
NA		Connection fittings							
		Review seismic connections Nailed connections Boiled connections Structural glued connections Other seismic fasteners							
Seismic-Resisting System (Seis. Part, Cat. C)									
NA									

All Wood Construction Special Inspections have been completed in accordance with ~~BCS-1000-1006~~ Special Inspector _____ Date _____

PROJECT:

SCHEDULE OF SPECIAL INSPECTION SERVICES

PAGE 5 OF 7

MATERIAL / ACTIVITY	ITEM	SERVICE	APPLICABLE TO THIS PROJECT					
			Y/N	EXTENT (All, Sample, Other, None)	COMMENTS	AGENT #	DATE COMPLETED	REV. #
1705.7 PREPARED FILL Site Preparation	✓	Review site preparation prior to prepared fill placement				SWC		
	✓	Review compliance to soils report Material				SWC		
	✓	Lift thickness				SWC		
During Fill Placement	✓	Review in-place dry density for compliance with soils report				SWC		
Evaluation of in-Place Density								

All Prepared Fill Special Inspections have been completed in accordance with ~~Section 1705.7~~ **200-FBC Chapter 17** Special Inspector _____ Date _____

The soil encountered at the site generally consists of fill. The existing fill encountered at the test pit consists of dark brown silty sand with a little clay and gravelly with a little mixing of light brown sand with a little silt and/or reworked olive gray silty clay. In general the fill is compact to firm. Occasional small cobbles, brick, and waste debris were encountered within the fill. The existing fill is generally classified as a SM soil in accordance with the Unified Soil Classification System (USCS).

3.0 Subsurface Conditions

Summit observed the subsurface conditions at the site with the excavation of one test pit on June 3, 2004. The test pit was excavated to a depth of 6 feet using a rubber tracked Bobcat X325 provided and operated by Hardy Pond Construction. The location of the test pit is approximately 10 feet north of the existing facility within the center of the proposed building addition. A log of the test pit is attached at the end of this letter.

2.0 Exploration and Laboratory Testing

The project will consist of constructing a new 18 by 24 foot building addition attached to the north side of the existing Sigco Glass facility located at 299 Presumpscot Street in Portland, Maine. We understand that the slab for the new building will be constructed at the existing ground surface to match the existing facility slab elevation. The building addition will serve to house 2 blower motors for the existing facility. Each blower will set on an 8 by 8 foot mat. The estimated contact pressure is less than 100 psf.

1.0 Project and Site

We have completed the geotechnical investigation in connection with the above mention project. Our scope of services included observing the excavation of one test pit at the proposed expansion site and preparing this letter summarizing our findings and geotechnical recommendations.

Dear Bob;

Reference: Geotechnical Investigation
Sigco Glass Addition, 299 Presumpscot Street, Portland, Maine

Hardy Pond Construction
Attn: Bob Gaudreau
1039 Riverside Street – Suite 11
Portland, Maine 04103

June 3, 2004
Summit #7837



420 A CC3
JUN 30

Bedrock was not encountered in the test pit.

Groundwater seepage was not encountered in the test pit. Damp conditions for the fill encountered and site topography indicate that groundwater will be below the footing depths for the addition.

4.0 Foundation Recommendations

A. General

Based on the proposed finish floor elevation and the anticipated footing depth, the footings will be constructed on existing fill. With proper preparation, the existing fill will be suitable to construct the proposed building addition and equipment pads using a conventional spread footing and slab on grade foundation. The presence of a small amount of waste debris, and/or bricks will not adversely affect the spread footing foundation due to the small size and total amount of debris encountered.

B. Allowable Bearing Pressure

The footings for the building can be proportioned using an allowable bearing pressure of 3,000 psf. The total estimated settlement associated with this contact pressure will be less than 1 inch. This bearing pressure and associated settlement is based on the following conditions:

- All existing fill within the building addition area should be proof rolled prior to placing Foundation Backfill or Structural Backfill. Proof rolling should consist of a minimum of three passes in a north-south direction and then three passes in an east-west direction using a vibratory roller or largest vibratory compactor available.
- Any existing waste and/or construction debris larger than 6 inches or that may contain the potential for future decay such as wood, organics, etc. exposed directly beneath the footings is removed and replaced with granular fill.

We recommend that the addition be structurally isolated from the existing facility or methods be provided to reduce the effects of differential settlement, estimated to be 0.5 inches.

C. Frost Protection

Based on the required frost protection depth, the frost walls for the building should be constructed at a minimum depth of 4 feet. This frost penetration depth is based on a design air-freezing index of 1,250 degree days for the Portland area. We recommend that the exterior of the foundation walls be backfilled with soil having less than 5 percent passing a No.200 sieve. The Foundation Backfill should be compacted to a minimum of 95 percent of its maximum dry density, determined in accordance with ASTM D1557. The existing fill does not meet this requirement.

We recommend the slab be constructed on a minimum 6-inch thick layer of Structural Backfill. The maximum particle size should be limited to 6 inches and meet the following gradation specifications passing the 3-inch sieve:

STRUCTURAL BACKFILL	
Sieve Size	Percent finer
3 inch	100
1/4 inch	0 to 70
NO. 200	0 to 10

Reference: MDOT Specification 703.20, Gravel Borrow

The Structural Backfill should be placed in 8 to 12-inch lifts and should be compacted to 95 percent of its maximum dry density determined in accordance with ASTM D1557.

E. Groundwater Control

Groundwater at the site will be below proposed footing depths. Based on this, perimeter underdrains are not necessary. Exterior grades should slope away from the building to reduce runoff water from infiltrating the foundation backfill.

F. Seismic Design

The soils at the site are categorized as Site Classification D in accordance with the 2003 International Building Code.

5.0 Earthwork Consideration

All existing fill within the building area should be proofrolled prior to placing Foundation Backfill or Structural Backfill. Existing fill can be reused onsite outside the Foundation Backfill. This soil should be compacted to a minimum of 95 percent of its maximum dry density, determined in accordance with ASTM D1557.

Excavations below 4 feet and above any groundwater should be sloped no greater than 1.5 H to 1 V. These slopes are based on the current OSHA Excavation Guidelines.

6.0 Closure

Our recommendations are based on professional judgment and generally accepted principles of geotechnical engineering. Some changes in subsurface conditions from those presented in this report may occur. Should these conditions differ materially from those described in this report, Summit should be notified so that we can re-evaluate our recommendations.

We appreciate the opportunity to serve you during this phase of your project. If there are any questions or additional information is required, please do not hesitate to call.

Sincerely yours,
Summit Geoen지니어ing Services,

Craig W. Coolidge
Craig W. Coolidge, E.I.T.
Geotechnical Engineer



William M. Peterlein
William M. Peterlein, P.E.
Principal Geotechnical Engineer

TEST PIT LOG		TEST Pit #		TP-1
PROJECT		Sigco Glass Addition		Project #: 7837
PROJECT		299 Presumpscot Street		Groundwater: N/E
PROJECT		Portland, ME		
CONTRACTOR		Hardy Pond Construction		
CONTRACTOR		640 Main Street		
CONTRACTOR		Lewiston, Maine 04240		
EQUIPMENT		Tracked Bobcat X325		
EQUIPMENT		Craig Coolidge, E.I.T.		
SUMMIT STAFF		Date: 6/3/2004		Weather: Overcast
SUMMIT STAFF		Reference: Estimation from Site Visual Observation		
SUMMIT STAFF		Ground Surface Elevation: Approx. at Exist. Building FFE		
SUMMIT STAFF		DESCRIPTION		
SUMMIT STAFF		ENGINEERING		Depth (ft)
SUMMIT STAFF		FILL		
Compact dark brown Silty SAND, little Clay and Gravel, damp, SM, little mixing with reworked firm, olive gray and mottled Silty CLAY, damp, CL		0.5		
Occasional small cobbles		1.0		
Small amount of brick debris encountered		2.0		
Compact dark brown Silty SAND, little Clay and Gravel mixing with light brown Sand, little Silt and Gravel, damp, SM-SP		2.5		
Compact dark brown Silty SAND, little Clay and Gravel, damp, SM, little mixing with reworked firm, olive gray and mottled Silty CLAY, damp, CL		4.0		
Small amount of waste debris encountered from 3.5 to 6.0 feet consisting of less than 5% for layer		5.0		
End of exploration at 6.0', no refusal encountered		6.0		
		6.5		
		7.5		
		8.5		
		9.0		
		9.5		
		10.0		

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