

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



# CITY OF PORTLAND BUILDING PERMIT

This is to certify that PHOENIX PROPERTY SERVICES LLC

Located At 144 HUTCHINS DR

Job ID: 2011-10-2520-NEWCOM

CBL: 240-A-004-001

has permission to Construct a 105' x 65' Maintenance Building and 38' x 48' 3-sided Salt Shed  
provided that the person or persons, firm or corporation accepting this permit shall comply with all of the provisions of  
the Statues of Maine and of the Ordinances of the City of Portland regulating the construction, maintenance and use of  
the buildings and structures, and of the application on file in the department.

Notification of inspection and written permission procured  
before this building or part thereof is lathed or otherwise  
closed-in. 48 HOUR NOTICE IS REQUIRED.

A final inspection must be completed by owner  
before this building or part thereof is occupied. If a  
certificate of occupancy is required, it must be

Fire Prevention Officer

 12/19/11  
Code Enforcement Officer / Plan Reviewer

THIS CARD MUST BE POSTED ON THE STREET SIDE OF THE PROPERTY  
PENALTY FOR REMOVING THIS CARD



# Certificate of Occupancy

CITY OF PORTLAND, MAINE

Department of Planning and Urban Development  
Building Inspections Division



**Location:** 144 HUTCHINS DR

**CBL:** 240 A004001

**Issued To:** Phoenix Property Services Llc

**Issued Date:** 11/29/2012

**This is to certify** that the building, premises, or part thereof, at the above location, built-altered-changed as to use under Building Permit No. 201111430 has had a final inspection, has been found to conform substantially to the requirements of the Building Code and the Land Use Code of the City of Portland, and is hereby approved for occupancy or use, limited or otherwise, as indicated below.

**PORTION OF BUILDING OR PREMISES**

105' x 65' Maintenance Building  
38' x 48' 3-sided Salt Storage

**APPROVED OCCUPANCY**

USE GROUP F-1  
USE GROUP S  
TYPE 5B  
IBC 2009

**LIMITING CONDITIONS:** NONE

**Approved:**

*Inspector*

*Inspection Division Director*

**Notice:** This certificate identifies the legal use of the building or premises, and ought to be transferred from owner to owner upon the sale of the property.

# City of Portland, Maine - Building or Use Permit Application

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

Job No: 2011-10-2520-NEWCOM	Date Applied: 10/18/2011	CBL: 240- A-004-001	
Location of Construction: 144 HUTCHINS DR	Owner Name: Phoenix Property Services LLC	Owner Address: PO Box 759, Saco, ME 04072	Phone: 571-3061
Business Name: Phoenix Property Services	Contractor Name: Portland Builders, Inc.	Contractor Address: 85 York Street, suite 3, Portland, ME 04101	Phone: 879-0118
Lessee/Buyer's Name:	Phone:	Permit Type: BLDG - Building	Zone: I-M
Past Use: Vacant Land	Proposed Use: Construction of a 64'93/4"x108' building for commercial property maintenance - repair of their equipment and storage of salt (sep 3-sided bldg.) and other maintenance items	Cost of Work: \$400,000.00	CEO District:
		Fire Dept: <input checked="" type="checkbox"/> Approved w/conditions <input type="checkbox"/> Denied <input type="checkbox"/> N/A	Inspection: Use Group: FMS Type: IBC 2009 Signature: JMB
Proposed Project: [REDACTED]		Pedestrian Activities District (P.A.D.) 12/19/11	
Permit Taken: [REDACTED]		Zoning Approval	
1. This permit is for the use of the property as described in the application. The applicant certifies that the information provided is true and correct. If the information is false, the applicant agrees to pay the cost of the permit and any fines or penalties imposed by the City of Portland.		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 Dist 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]

## CERTIFICATION

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

SIGNATURE OF APPLICANT

ADDRESS

DATE

PHONE

RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE

DATE

PHONE

4/1/00 V Z. Bar site OK as per plan GF 9:15  
12/28/11

2-7-12 DWM Footings Salt + Shed 80% OK will provide survey +  
SI report

3-22-12 DWM Gary 314-6755 underslab plumb OK

5-7-12 DWM Plumbing OK

5-31-12 DWM close-in OK pending revised floor plan

7-31-12 DWM/BKL/Lt Wallace Josh 838-0834 Final Provide:

Special inspection reports for both buildings, ~~Brick Span~~ See conditions  
of approval Buildings #s 2, 3, 4, 5, 6, 9 + Fire 4, 6, Address.  
Elec Fail

11-29-12 DWM/BKL/Lt Wallace Bill Elec fail, Bldg fail,  
survey.  
Fire OK. ~~Need conditions~~

DWM OK TO Final



## BUILDING PERMIT INSPECTION PROCEDURES

Please call 874-8703 or 874-8693 (ONLY)

or email: [buildinginspections@portlandmaine.gov](mailto:buildinginspections@portlandmaine.gov)

With the issuance of this permit, the owner, builder or their designee is required to provide adequate notice to the city of Portland Inspections Services for the following inspections. Appointments must be requested 48 to 72 hours in advance of the required inspection. The inspection date will need to be confirmed by this office.

- **Please read the conditions of approval that is attached to this permit!! Contact this office if you have any questions.**
- **Permits expire in 6 months. If the project is not started or ceases for 6 months.**
- **If the inspection requirements are not followed as stated below additional fees may be incurred due to the issuance of a "Stop Work Order" and subsequent release to continue.**

Footings/Setbacks prior to pouring concrete, salt shed soil preparation or footing

Periodic Rebar Inspections

Underground Plumbing and Electrical Installation

Close In Elec/Plmb/Frame prior to insulate or gyp

Certificate of Occupancy/Final Inspection

The project cannot move to the next phase prior to the required inspection and approval to continue, REGARDLESS OF THE NOTICE OF CIRCUMSTANCES.

IF THE PERMIT REQUIRES A CERTIFICATE OF OCCUPANCY, IT MUST BE PAID FOR AND ISSUED TO THE OWNER OR DESIGNEE BEFORE THE SPACE MAY BE OCCUPIED.



# PORTLAND MAINE

*Strengthening a Remarkable City, Building a Community for Life • [www.portlandmaine.gov](http://www.portlandmaine.gov)*

Director of Planning and Urban Development  
Penny St. Louis

Job ID: 2011-10-2520-NEWCOM

Located At: 144 HUTCHINS DR

CBL: 240- A-004-001

## **Conditions of Approval:**

### **Zoning**

1. Separate permits shall be required for any new signage.
2. This permit is being approved on the basis of plans submitted. Any deviations shall require a separate approval before starting that work.
3. This I-M zone has maximum noise allowances. The City of Portland strictly enforces the level of sound generated on the property. Any verified noise violations shall require the owner to take mitigating measures to bring the property and the noise it generates into compliance.

### **Building**

1. Application approval based upon information provided by applicant. Any deviation from approved plans requires separate review and approval prior to work.
2. Stamped plans shall be submitted for the BriteSpan building design.
3. The specifications of the fabric membrane, including flame characteristics shall be submitted for review.
4. A certificate of compliance is required from the BriteSpan Building Systems fabricator, their affiliates or the EOR indicating the work is in compliance with the approved construction documents.
5. Special Inspections or a sealed compliance letter indicating approval of the erection and anchoring specifications shall be submitted prior to issuance of the Certificate of Occupancy.
6. Special inspection reports shall be submitted to this office on a periodic basis. Inspections of the Salt Shed soil preparation and foundation system are required. A final special inspection report must be submitted prior to issuance of a certificate of occupancy. This report must demonstrate any deficiencies and corrective measures that were taken.
7. Separate permits are required for any electrical, plumbing, sprinkler, fire alarm, HVAC systems, heating appliances, including pellet/wood stoves, commercial hood exhaust systems and fuel tanks. Separate plans may need to be submitted for approval as a part of this process.
8. Ventilation of this space is required per ASRAE 62.1, 2007 edition.

9. Com Check Certificate of Compliance Required

## **Fire**

1. Installation shall comply with City Code Chapter 10.
2. All construction shall comply with City Code Chapter 10.
3. This permit is being approved on the basis of the plans submitted. Any deviation from the plans would require amendments and approval.
4. As-built documents shall be submitted in pdf to the Building Inspections Office upon completion of job.
5. All smoke detectors and smoke alarms shall be photoelectric.
6. Fire extinguishers are required per NFPA 10.
7. Two means of egress are required from every story. "MRSA Title 25 § 2453"
8. Occupancies with an occupant load of 100 persons or more require panic hardware on all doors serving as a means of egress.
9. Emergency lights and exit signs are required. Emergency lights and exit signs are required to be labeled in relation to the panel and circuit and on the same circuit as the lighting for the area they serve.
10. Any cutting and welding done will require a Hot Work Permit from Fire Department.
11. Walls in structure are to be labeled according to fire resistance rating. IE; 1 hr. / 2 hr. / smoke proof.
12. A single source supplier should be used for all through penetrations.

## **Jeanie Bourke - 144 Hutchins Drive - Phoenix Property Maintenance Facility**

---

**From:** Philip DiPierro  
**To:** Code Enforcement & Inspections  
**Date:** 12/6/2011 12:45 PM  
**Subject:** 144 Hutchins Drive - Phoenix Property Maintenance Facility  
**CC:** Wiar, Shukria

---

Hi all, this project, site plan #2011-286, the Phoenix Property Maintenance Facility located at 144 Hutchins Drive, meets minimum DRC site plan requirements for the issuance of the building permit.

Contact me with any questions. Thanks.

Phil

Entered 709



## General Building Permit Application

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

Location/Address of Construction: 144 Hutchins Road		
Total Square Footage of Proposed Structure/Area 6,825 SF		Square Footage of Lot
Tax Assessor's Chart, Block & Lot Chart#      Block#      Lot#  240          A          4	Applicant * <u>must be owner, Lessee or Buyer</u> * Name Phoenix Property Services LLC Address PO Box 759 City, State & Zip Saco, ME 04072	Telephone:  571-3061
Lessee/DBA (If Applicable)	Owner (if different from Applicant) Name Address City, State & Zip	Cost Of Work: \$ <u>360,200</u> C of O Fee: \$ <u>75.00</u> Total Fee: \$ <u>3,707</u>
Current legal use (i.e. single family) <u>vacant</u> If vacant, what was the previous use? <u>vacant</u> Proposed Specific use: <u>Warehouse Storage</u> Is property part of a subdivision? <u>no</u> If yes, please name _____ Project description: <u>Construction of a 6,825 SF Industrial Building</u>		
RECEIVED Dept. of Building Inspections City of Portland Maine		
Contractor's name: <u>Portland Builders, Inc.</u> Address: <u>85 York Street, Suite 3</u> City, State & Zip <u>Portland, ME 04101</u> Telephone: <u>879-0118</u> Who should we contact when the permit is ready: <u>Josh Cushman</u> Telephone: <u>838-0834</u> Mailing address: <u>PO Box 4902, Portland ME 04112</u>		

**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 [www.portlandmaine.gov](http://www.portlandmaine.gov), 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.

Signature: \_\_\_\_\_

Date: 10-17-11

**This is not a permit; you may not commence ANY work until the permit is issued**

Applicant: Phoenix Property Services.

Date: 7/1/11

Address: 144 Hutchins Dr.

C-B-L: 240-A-004

CHECK-LIST AGAINST ZONING ORDINANCE

Level II Site Plan - 2011-286

Date - Vacant land.

Zone Location - IM

Interior or corner lot -

Proposed Use/Work - 7,000  $\phi$

Severage Disposal - public

Lot Street Frontage - 60' min. - 235' in subdivision (OK)

Front Yard - one foot each foot of building height. - 25' + shown

Rear Yard - one foot each foot of building height - max 25' - site plan shows 25' setback - <sup>yes</sup>

Side Yard - one foot for each foot of building height up to 25' - site plan shows 25' setback - <sup>yes</sup>  
22'

Projections - N/A

Width of Lot - N/A

Height - 75' max. - showing 19' 7 5/8" to peak.

Lot Area - no requirement. - 94,250  $\phi$  size. 94,002 in their CALCS

0 Lot Coverage Impervious Surface - 75% = 70,537.5. - 31.7% given ~~27,800  $\phi$~~   
29,158 = 31%  
94,090

Area per Family - N/A

Off-street Parking - 14-332(i) floor area over 3,000  $\phi$  - 1 space for each 1,000  $\phi$

Loading Bays - N/A  
6,957  $\div$  1000 = 7 spaces. - 14 spc shown

Site Plan - Level II - 2011-286

Shoreland Zoning/Stream Protection - N/A.

Flood Plains - panel 12 - zone X

\* pavement setback from boundaries - 10' - shown on site plan



# PORTLAND MAINE

*Strengthening a Remarkable City, Building a Community for Life • [www.portlandmaine.gov](http://www.portlandmaine.gov)*

Director of Planning and Urban Development  
Penny St. Louis

October 18, 2011

Phoenix Property Services  
Attention: Aaron Bateman  
PO Box 759  
Saco, ME 04072

Attar Engineering, Inc.  
Attention: Kenneth A. Woods, PE  
1284 State Road  
Eliot, ME 03903

<b>Project Name:</b>	144 Hutchins Drive; Maintenance Facility	<b>Project ID:</b>	2011-286
<b>Address:</b>	144 Hutchins Drive	<b>CBL:</b>	240- A-004-001
<b>Applicant:</b>	Phoenix Property Services		
<b>Planner:</b>	Shukria Wiar		

Dear Mr. Bateman:

On October 17, 2011, the Planning Authority approved a Level II site plan application for maintenance facility, salt shed and site improvements at 144 Hutchins Drive as submitted by Christopher Stairs of Attar Engineering, Inc. and shown on the approved plan prepared by Attar Engineering, Inc. with a revision date of 10.17.2011 with the following conditions:

1. The applicant shall contribute \$5,000 to the City in lieu of constructing the required 5 foot wide bituminous asphalt sidewalk on the proposal site. The contribution shall be made prior to the issuance of a building permit, and be used by the City to construct sidewalk/curbing along Hutchins Drive in the vicinity of the project; and
2. The applicant shall provide the status of the registration with MaineDEP Rule Chapter 574; all documentation shall be forwarded to the Planning Division prior to the issuance of a building permit; and
3. A Landscaping Plan shall be submitted, addressing the City Arborist memorandum dated 10.06.2011 for review and approval by the City Arborist and the Planning Authority prior to the issuance of a building permit; and
4. The approved retaining wall require engineered drawing to be reviewed and approved by the Inspections Division and Planning Authority prior to the issuance of building permit; and
5. The applicant shall submit utility capacity letters for water and wastewater prior to the issuance of building permit.
6. A revised photometric plan will be submitted for review and approval by the Planning Authority prior to the issuance of a building permit; the proposed lighting fixture at the entrance shall include house-side shield to meet the standard for illuminations.

7. If the applicant or all assigns intends to keep exposed stockpiles of loam, compost, etc. on site, either in the present or in the future, an Operation and Maintenance Plan shall be submitted to specify of how the exposed stockpiles would be managed to prevent erosion; and
8. The applicant and all assigns, must comply with the conditions of Chapter 32 Storm Water including Article III. Post-Construction Storm Water Management, which specifies the annual inspections and reporting requirements. The developer/contractor/subcontractor must comply with conditions of the construction storm water management plan and sediment & erosion control plan based on our standards and state guidelines.

The approval is based on the submitted site plan. If you need to make any modifications to the approved site plan, you must submit a revised site plan for staff review and approval.

#### **STANDARD CONDITIONS OF APPROVAL**

Please note the following standard conditions of approval and requirements for all approved site plans:

1. **Develop Site According to Plan** The site shall be developed and maintained as depicted on the site plan and in the written submission of the applicant. Modification of any approved site plan or alteration of a parcel which was the subject of site plan approval after May 20, 1974, shall require the prior approval of a revised site plan by the Planning Board or Planning Authority pursuant to the terms of Chapter 14, Land Use, of the Portland City Code.
2. **Separate Building Permits Are Required** This approval does not constitute approval of building plans, which must be reviewed and approved by the City of Portland's Inspection Division.
3. **Site Plan Expiration** The site plan approval will be deemed to have expired unless work has commenced within one (1) year of the approval or within a time period up to three (3) years from the approval date as agreed upon in writing by the City and the applicant. Requests to extend approvals must be received before the one (1) year expiration date.
4. **Performance Guarantee and Inspection Fees** A performance guarantee covering the site improvements, inspection fee payment of 2.0% of the guarantee amount and seven (7) final sets of plans must be submitted to and approved by the Planning Division and Public Services Department prior to the release of a building permit, street opening permit or certificate of occupancy for site plans. If you need to make any modifications to the approved plans, you must submit a revised site plan application for staff review and approval.
5. **Defect Guarantee** A defect guarantee, consisting of 10% of the performance guarantee, must be posted before the performance guarantee will be released.
6. **Preconstruction Meeting** Prior to construction, a pre-construction meeting shall be held at the project site. This meeting will be held with the contractor, Development Review Coordinator, Public Service's representative and owner to review the construction schedule and critical aspects of the site work. At that time, the Development Review Coordinator will confirm that the contractor is working from the approved site plan. The site/building contractor shall provide three (3) copies of a detailed construction schedule to the attending City representatives. It shall be the contractor's responsibility to arrange a mutually agreeable time for the pre-construction meeting.



7. **Department of Public Services Permits** If work will occur within the public right-of-way such as utilities, curb, sidewalk and driveway construction, a street opening permit(s) is required for your site. Please contact Carol Merritt at 874-8300, ext. 8828. (Only excavators licensed by the City of Portland are eligible.)
8. **As-Built Final Plans** Final sets of as-built plans shall be submitted digitally to the Planning Division, on a CD or DVD, in AutoCAD format (\*.dwg), release AutoCAD 2005 or greater.

The Development Review Coordinator must be notified five (5) working days prior to the date required for final site inspection. The Development Review Coordinator can be reached at the Planning Division at 874-8632. All site plan requirements must be completed and approved by the Development Review Coordinator prior to issuance of a Certificate of Occupancy. Please schedule any property closing with these requirements in mind.

If there are any questions, please contact Shukria Wiar at (207) 756-8083 or via [shukriaw@portlandmaine.gov](mailto:shukriaw@portlandmaine.gov)

Sincerely,



Alexander Jaegerman  
Planning Division Director

**Attachments:**

1. Jeff Tarling memo dated 10.06.2011
2. Performance Guarantee Packet

**Electronic Distribution:**

Penny St. Louis Littell, Director of Planning and Urban Development Department  
Alexander Jaegerman, Division Director, Planning  
Barbara Barhydt, Development Review Services Manager, Planning  
Shukria Wiar, Planner  
Philip DiPierro, Development Review Coordinator, Planning  
Marge Schmuckal, Zoning Administrator, Inspections Division  
Tammy Munson, Plan Reviewer, Inspections Division  
Lannie Dobson, Administration, Inspections Division  
Michael Bobinsky, Director, Public Services  
Katherine Earley, Engineering Services Manager, Public Services  
Bill Clark, Project Engineer, Public Services  
David Margolis-Pineo, Deputy City Engineer, Public Services  
Jane Ward, Administration, Public Services  
Capt. Keith Gautreau, Fire Department  
Jeff Tarling, City Arborist, Public Services  
Tom Errico, P.E., T.Y. Lin Associates  
David Senus, P.E., Woodard & Curran  
Assessor's Office  
Approval Letter File

Comments  
Submitted

8/24/11

City of Portland  
Development Review Application  
Planning Division Transmittal form

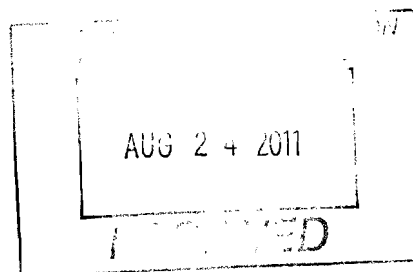
**Application Number:** 2011-286      **Application Date:** 6/21/2011 12:00:00  
**CBL:** 240-a-4      AM  
**Project Name:** Hutchins Drive Maintenance Facility  
**Address:** 144 Hutchins Drive  
  
**Project Description:** Maintenance Facility Building  
**Zoning:** IM  
**Other Reviews Required:**  
**Review Type:** Level II

revised plan  
near wetlands?  
salt shed - ok per  
Zoning

**Distribution List:**

<input type="checkbox"/> Planner	Shukria Wiar	<input type="checkbox"/> Parking	John Peverada
<input type="checkbox"/> Zoning Administrator	Marge Schmuckal	<input type="checkbox"/> Design Review	Alex Jaegerman
<input type="checkbox"/> Traffic	Tom Errico	<input type="checkbox"/> Corporation Counsel	Danielle West-Chuhta
<input type="checkbox"/> Stormwater	Dan Goyette	<input type="checkbox"/> Sanitary Sewer	John Emerson
<input type="checkbox"/> Fire Department	Keith Gautreau	<input type="checkbox"/> Inspections	Tammy Munson
<input type="checkbox"/> City Arborist	Jeff Tarling	<input type="checkbox"/> Historic Preservation	Deb Andrews
<input type="checkbox"/> Engineering	David Margolis-Pineo	<input type="checkbox"/> Outside Agency ~	
		<input type="checkbox"/> DRC Coordinator	Phil DiPierro

**Final Comments needed by: August 31, 2011**



Ann Machado, Zoning Specialist

July 6, 2011

This property is located in the I-M Zone. This is the initial site plan submittal. In order to complete my review I need more information. Some of the information submitted was also inaccurate.

1. I have a question about the total impervious surface on the site. The Project Data Sheet on the application gives the Proposed Total Paved Area as 21,658 sf. It gives the Proposed Total Impervious Area as 30,234 sf. Where does this calculation come from? The Proposed Building Footprint is 9,400 sf. If you add that to the Proposed Total Paved area the amount is 31,058 sf. Also on the site plan the maximum impervious surface ration gives the figure as 29,800 sf. I need to know what the Total Proposed Impervious Surface is.
2. I need more detail on exactly what the proposed use is. The Project Summary states that the use is a combination of repair services and warehousing and distribution. These are both permitted uses but I would like more information on exactly what is being repaired and what is being warehoused.
3. The zoning assessment on the site plan states that the maximum front yard is 25'. There is not a maximum front yard setback. There is a minimum setback based on the height of the building. The building must be set back one foot for each one foot of building height. We were not given elevation plans, so I cannot determine what the front yard setback should be so I don't know if it is being met.
4. To determine the parking requirement I need floor plans of the maintenance facility. Is there any office space within the building or is it all "industrial" space? Is there more than one floor? The required parking calculation on the site plan says 8,000 sf of industrial space but the footprint of the building is 7,000 sf.

144 Hutchins Drive - #240-A-004 - #2011-286

9/8/2011

I have reviewed the most recent submittal of 8/25/2011. The information submitted shows that the applicant meets the I-M Zoning requirements.

Separate building permits are required for construction. Separate permits are required for any new signage.

Please note that any HVAC systems will be required to meet the maximum noise allowances of the I-M zone. This office will require catalogue cuts showing the number of dBAs that will emanate from the specific units at the time of permit application.

Marge Schmuckal

Zoning Administrator

Ann Machado, Zoning Specialist

July 6, 2011

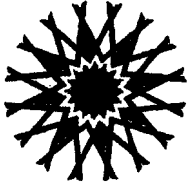
*new upload in e plan on 8/25/11*

This property is located in the I-M Zone. This is the initial site plan submittal. In order to complete my review I need more information. Some of the information submitted was also inaccurate.

1. I have a question about the total impervious surface on the site. The Project Data Sheet on the application gives the Proposed Total Paved Area as 21,658 sf. It gives the Proposed Total Impervious Area as 30,234 sf. Where does this calculation come from? The Proposed Building Footprint is 9,400 sf. If you add that to the Proposed Total Paved area the amount is 31,058 sf. Also on the site plan the maximum impervious surface ration gives the figure as 29,800 sf. I need to know what the Total Proposed Impervious Surface is.
2. I need more detail on exactly what the proposed use is. The Project Summary states that the use is a combination of repair services and warehousing and distribution. These are both permitted uses but I would like more information on exactly what is being repaired and what is being warehoused.
3. The zoning assessment on the site plan states that the maximum front yard is 25'. There is not a maximum front yard setback. There is a minimum setback based on the height of the building. The building must be set back one foot for each one foot of building height. We were not given elevation plans, so I cannot determine what the front yard setback should be so I don't know if it is being met.
4. To determine the parking requirement I need floor plans of the maintenance facility. Is there any office space within the building or is it all "industrial" space? Is there more than one floor? The required parking calculation on the site plan says 8,000 sf of industrial space but the footprint of the building is 7,000 sf.

*received later*

*floor plans look open*



# ATTAR

ENGINEERING, INC

CIVIL • STRUCTURAL • MARINE

FILE CORR

input on 8/25/11  
in e-plan

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

August 3, 2011  
Project No.: C010-11

**RE: Hutchins Drive Maintenance Facility  
Hutchins Drive, Portland, ME  
Response to comments**

Dear Ms. Wiar:

I have attached a revised plan set and Stormwater Management Plan for the referenced project in response to comments provided by the city (letter dated July 11, 2011). The following items have been addressed (format and numbering is consistent with the city's review letter, our responses are in bold):

**A. Zoning:**

1. Please clarify the total impervious surface on the site. The Project Data Sheet on the application gives the Proposed Total Paved Area as 21,658 sf. It gives the Proposed Total Impervious Area as 30,234 sf. Where does this calculation come from? The Proposed Building Footprint is 9,400 sf. If you add that to the Proposed Total Paved area the amount is 31,058 sf. Also on the site plan the maximum impervious surface ration gives the figure as 29,800 sf. What the Total Proposed Impervious Surface is?

*See General Note 3 for site impervious area. Total impervious area is 29,751 SF, which may vary from General Note 3 due to paving within the Right-of-Way.*

2. More detail on exactly what the proposed use is for the site. The Project Summary states that the use is a combination of repair services and warehousing and distribution. These are both permitted uses but more information on exactly what is being repaired and what is being warehoused is needed.

*A detailed description of the use and hours of operation has been provided in General Note 2.*

*Maintenance Bldg for Phoenix Man...*

3. The zoning assessment on the site plan states that the maximum front yard is 25'. There is not a maximum front yard setback. There is a minimum setback based on the height of the building. The building must be set back one foot for each one foot of building height. The elevation plans were not submitted; please submit elevations so that it can be determined if the front setback is being met.

*Building elevations have been provided and the front yard setback has been revised to show a 20' front yard setback on Sheet 1.*

4. To determine the parking requirement, floor plans of the maintenance facility will need to be submitted. Is there any office space within the building or is it all "industrial" space? Is there more than one floor? The required parking calculation on the site plan says 8,000 sf of industrial space but the footprint of the building is 7,000 sf.

*Floor plan has been provided along with the building elevations, building footprint is 7,000 SF. Parking requirements have been addressed in General Note 6.*

**B. Planning:**

1. **Site Lighting:** all exterior site lighting, including lighting of building entrances, shall be full cutoff with no light emitted above the horizontal plane or spilled onto adjacent properties and streets. Please submit catalogue cuts for proposed lighting. Is the applicant proposing any lighting for the roadways and parking lot?  
*Lighting plan and cut sheets have been provided, all fixtures have been designed as full cutoff.*
2. **Street Lighting.** (i) Municipal street lighting shall be adequate for the safety and comfort of pedestrians and motorists and, where applicable, shall conform to specific lighting district requirements, as specified in Section 10 of the Technical Manual.  
*The following note has been added to Sheet 2, "Proposed utility pole to be equipped with street light conforming to Section 10 of the technical manual (coordinate installation with CMP)"*
3. Please submit elevations of the building for fire and zoning compliance.  
*Building elevations are enclosed.*
4. All proposed developments shall provide sidewalks along all frontages in accordance with Sections 14-498 and 14-499 of the City Code, installed to City specifications as described in Section 1 of the Technical Manual. An applicant may request a waiver from curb and sidewalk installation requirements if they meet applicable waiver criteria listed in Section 14-506 (b) of the City Code. No Sidewalk proposed. There is existing sidewalk nearby on other side of Hutchins from property. A sidewalk along the frontage of 121 Hutchins Drive has been approved and will be constructed.  
*We are requesting a waiver for the requirements set forth in sections 14-498 and 14-499 of the city code (sidewalks and granite curbing). There is no sidewalk within 1000' of the project on the same side of the road.*
5. Parking spaces and aisles shall meet applicable dimensional standards as detailed in Section 1 of the Technical Manual.  
*All parking space and aisle dimensions have been provided on the Site Plan, Sheet 1.*
6. The site plan shall provide secure bicycle parking in conformance with Section 1 of the Technical Manual and shall meet the following requirements: For Non-residential structures. Two (2) bicycle parking spaces for every ten (10) vehicle parking spaces for the first one hundred (100) required vehicle parking spaces, plus one (1) bicycle parking space for every twenty (20) required motor vehicle parking space over one hundred (100) required vehicle parking spaces.  
*Bicycle parking is shown within the building on the floor plan, Sheet 3 of 3.*
7. The applicant will need to submit for a sign permit (a separate permit) for the proposed project sign.  
*Sheet 1, General Note 9 has been revised to reflect this requirement.*
8. A survey plan needs to be submitted for review. Has the pins for the Stroudwater Estate subdivision been set?  
*The stamped boundary survey has been submitted, a copy is attached. The lot has been monumented.*
9. **Availability and Adequate Capacity of Public Utilities:** Please submit approved utility capacity letters.  
*Letters of capacity for public utilities have been obtained and are included in this submittal.*
10. The site plan shall preserve and protect significant natural features by incorporating them into site design.

8/25/11 submitted

## GENERAL NOTES

1. THIS PLAN PROVIDES DETAILS FOR THE APPROVAL AND CONSTRUCTION OF A 7,000 SF INDUSTRIAL BUILDING WITH A SEPARATE 2,400 SF SALT SHED IN PORTLAND, MAINE. THE SITE IS LOCATED AT 144 HUTCHINS DRIVE AND IS IDENTIFIED ON THE CITY OF PORTLAND TAX ASSESSOR'S MAP 240, BLOCK A, LOT 4, AND IS 2.16 ACRES IN AREA WITH 235' OF STREET FRONTAGE ON HUTCHINS DRIVE.

2. THE PROPOSED BUILDING (APPROXIMATELY 7,000 SF FOOTPRINT) SHALL BE A MAINTENANCE FACILITY FOR PHOENIX MANAGEMENT. THE MAIN BUILDING WILL BE USED FOR STORING AND SERVICING EQUIPMENT (PLOW TRUCKS, BACK HOE LOADERS, BOBCATS, TRACTORS, MOWERS, ETC.) FOR THE MAJORITY OF THE YEAR HOURS SHALL BE FROM 5AM TO 9PM. DURING THE WINTER MONTHS THE FACILITY SHALL BE USED TO STORE AND SELL SALT TO LOCAL CUSTOMERS, HOURS OF OPERATION DURING SNOW EVENTS SHALL BE 24 HOURS.

3. THE PARCEL IS LOCATED IN THE INDUSTRIAL-MODERATE IMPACT (IM) DISTRICT. DISTRICT REQUIREMENT ARE AS FOLLOWS:

MIN LOT SIZE = N/A  
MIN STREET FRONTAGE = 60'  
FRONT YARD (BUILDING HEIGHT) = 20'  
MIN REAR AND SIDE YARD = 25'  
MAX BUILDING HEIGHT = 75'

4. MAXIMUM IMPERVIOUS SURFACE RATIO ALLOWED IS 75% IN THE INDUSTRIAL-MODERATE IMPACT DISTRICT. COVERAGE CALCULATIONS ARE AS FOLLOWS:

$$29,158 \text{ SF} / 94,090 \text{ SF} = 31.0\%$$

5. BOUNDARY, TOPOGRAPHIC AND WETLAND INFORMATION WAS TAKEN FROM REFERENCE 1 AND FIELD OBSERVATIONS TAKEN BY ATTAR ENGINEERING IN MAY OF 2011.

6. REQUIRED PARKING IS CALCULATED AS FOLLOWS:  
7000 S.F. INDUSTRIAL SPACE:

(1/1000 S.F.) = 7 SPACES  
TOTAL = 7 SPACES

14 SPACES ARE PROVIDED, OF WHICH 1 SPACE IS ADA ACCESSIBLE.

7. WATER AND SEWER SERVICE SHALL BE PROVIDED TO THE SITE BY THE PORTLAND WATER DISTRICT. WATER AND SEWER IMPROVEMENTS SHALL BE INSTALLED IN ACCORDANCE WITH RESPECTIVE DISTRICT REQUIREMENTS.

8. THE CONTRACTOR MUST CONTACT DIG SAFE AND ALL LOCAL UTILITIES PRIOR TO THE START OF CONSTRUCTION TO VERIFY THE LOCATION OF EXISTING SUBSURFACE UTILITIES AND CONDITIONS. LOCATING AND PROTECTING ANY UNDERGROUND OR ABOVE GROUND UTILITY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

9. PROPOSED SIGN SHALL BE SUBJECT TO APPROVAL PURSUANT TO SECTION 14-526 (d) 8.a. (IV) OF THE LAND USE CODE.

10. REPLACEMENT TREES MUST BE LISTED ON THE CITY OF PORTLAND APPROVED NATIVE SPECIES LIST. SEE EXISTING CONDITIONS PLAN FOR TREE SURVEY INFORMATION. STREET TREES MUST MEET ALL STANDARDS SET FORTH IN THE CITY OF PORTLAND TECHNICAL MANUAL SECTION 4.7.

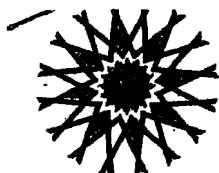
11. SEE BUILDING FLOOR PLAN FOR BICYCLE PARKING AREA.

PHOENIX DRIVE

STREET TREES  
(4 TOTAL)

SIGHT DISTANCE  
300' + 300' +





**A-I IAR**

**ENGINEERING, INC**

CIVIL • STRUCTURAL • MARINE

8/25/11

Marybeth Richardson  
Maine Department of Environmental Protection  
312 Canco Road  
Portland, Maine 04103

June 28, 2011  
Project No.: C010-11

**RE: 144 Hutchins Drive – Portland, Maine  
Stormwater Permit-By-Rule (PBR) Application**

Dear Ms. Richardson:

I have attached a Stormwater PBR application for the referenced project. Included in the application is a Letter of Agent Authorization and a plan set for your review. The project involves a new, 7,000 S.F. maintenance building, a 2,400 S.F. salt shed with associated parking, access and utility improvements. The project site (Tax Map 240, Block A, Lot 4) is located in the Industrial Moderate (IM) District and is approximately 2.16 acres in area.

The existing site is completely wooded with a wetland running through the property from the westerly property line to the north east corner. The completed development will create approximately 30,234 S.F. of impervious area.

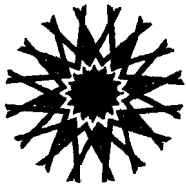
Please contact me for any additional information. Thank you for your assistance.

Sincerely;

Christopher L. Stairs, EIT.

cc: Phoenix Property Services

C010-11stpbrcover



# ATTAR

ENGINEERING, INC

CML • STRUCTURAL • MARINE

8/25/11

Marybeth Richardson  
Maine Department of Environmental Protection  
312 Canco Road  
Portland, Maine 04103

Aug. 10, 2011  
Project No.: C010-11

**RE: 144 Hutchins Drive – Portland, Maine  
Permit-By-Rule (PBR) Application**

Dear Ms. Richardson:

I have attached a NRPA Permit by Rule Notification Form for the referenced project. Included in the application is a Letter of Agent Authorization, USGS site location map and a plan set for your review. The project involves a new, 7,000 S.F. maintenance building, a 2,400 S.F. salt shed with associated parking, access and utility improvements. The project site (Tax Map 240, Block A, Lot 4) is located in the Industrial Moderate (IM) District and is approximately 2.16 acres in area.

The existing site is completely wooded with a stream running through the property from the westerly property line to the north east corner. The completed development will create approximately 30,234 S.F. of impervious area. We have maintained a 25' undisturbed buffer to the stream.

Please contact me for any additional information. Thank you for your assistance.

Sincerely;

Christopher L. Stairs, EIT.

cc: Phoenix Property Services

C010-11stpbrcover

8/25/11

**PROJECT DATA**

The following information is required where applicable, in order complete the application

<b>Total Site Area</b>	94,090	sq. ft.
<b>Proposed Total Disturbed Area of the Site</b>	48,023	sq. ft.
(If the proposed disturbance is greater than one acre, then the applicant shall apply for a Maine Construction General Permit (MCGP) with DEP and a Stormwater Management Permit, Chapter 500, with the City of Portland)		
<b>IMPERVIOUS SURFACE AREA</b>		
• Proposed Total Paved Area	20,351	sq. ft.
• Existing Total Impervious Area	0	sq. ft.
• Proposed Total Impervious Area	29,751	sq. ft.
• Proposed Total Impervious Area		sq. ft.
• Proposed Impervious Net Change	29,751	sq. ft.
<b>BUILDING AREA</b>		
• Proposed Building Footprint	9,400	sq. ft.
• Proposed Building Footprint Net change		sq. ft.
• Existing Total Building Floor Area	0	sq. ft.
• Proposed Total Building Floor Area		sq. ft.
• Proposed Building Floor Area Net Change		sq. ft.
• New Building	Yes	(yes or no)
<b>ZONING</b>		
• Existing	IM (Moderate Industrial)	
• Proposed, if applicable	IM (Moderate Industrial)	
<b>LAND USE</b>		
• Existing		
• Proposed		
<b>RESIDENTIAL, IF APPLICABLE</b>		
• Proposed Number of Affordable Housing Units		
• Proposed Number of Residential Units to be Demolished		
• Existing Number of Residential Units		
• Proposed Number of Residential Units		
• Subdivision, Proposed Number of Lots		
<b>PARKING SPACES</b>		
• Existing Number of Parking Spaces	0	
• Proposed Number of Parking Spaces	13	
• Number of Handicapped Parking Spaces	1	
• Proposed Total Parking Spaces	14	
<b>BICYCLE PARKING SPACES</b>		
• Existing Number of Bicycle Parking Spaces		
• Existing Number of Bicycle Parking Spaces		
• Proposed Number of Bicycle Parking Spaces		
• Total Bicycle Parking Spaces		
<b>ESTIMATED COST OF PROJECT</b>	\$750,000	

City of Portland  
Development Review Application  
Planning Division Transmittal form

6/24/11 — Although  
it is set up in  
e-plan - there are  
NO DRAWINGS or  
Documents

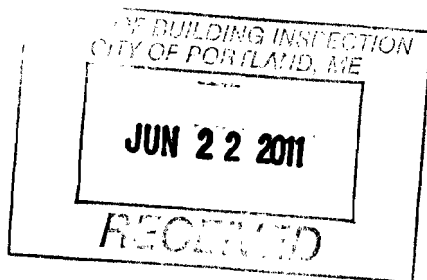
**Application Number:** 2011-286      **Application Date:** 6/21/2011 12:00:00 AM  
**CBL:** 240-a-4  
**Project Name:** Hutchins Drive Maintenance Facility  
**Address:** 144 Hutchins Drive  
  
**Project Description:** Maintenance Facility Building  
**Zoning:** IM  
**Other Reviews Required:**  
**Review Type:** Level II

**Distribution List:**

<input type="checkbox"/> Planner	Shukria Wiar	<input type="checkbox"/> Parking	John Peverada
<input checked="" type="checkbox"/> Zoning Administrator	Marge Schmuckal	<input type="checkbox"/> Design Review	Alex Jaegerman
<input type="checkbox"/> Traffic	Tom Errico	<input type="checkbox"/> Corporation Counsel	Danielle West-Chuhta
<input type="checkbox"/> Stormwater	Dan Goyette	<input type="checkbox"/> Sanitary Sewer	John Emerson
<input type="checkbox"/> Fire Department	Keith Gautreau	<input type="checkbox"/> Inspections	Tammy Munson
<input type="checkbox"/> City Arborist	Jeff Tarling	<input type="checkbox"/> Historic Preservation	Deb Andrews
<input type="checkbox"/> Engineering	David Margolis-Pineo	<input type="checkbox"/> Outside Agency	
		<input type="checkbox"/> DRC Coordinator	Phil DiPierro

**Preliminary Comments needed by:** June 29, 2011

**Final Comments needed by:** July 6, 2011



Applicant: Phoenix Property

Date: 6/22/11

Address: 144 Hutchins Dr.

C-B-L: 240-A-4

CHECK-LIST AGAINST ZONING ORDINANCE

Date -

Zone Location -

IM <sup>yes</sup>

Interior or corner lot -

Proposed Use/Work -

NEW 7000<sup>sq</sup> COMMERCIAL MAINT Bldg  
2400<sup>sq</sup> SALT SHED

> Bldg contractors & construction & ENGINEERING SERVICE

Sewage Disposal -

Lot Street Frontage - 60' min

Front Yard -

Rear Yard -

Side Yard -

Projections -

Width of Lot -

Height -

Lot Area -

9,400<sup>sq</sup> given

Lot Coverage Impervious Surface -

75% max - 29,800<sup>sq</sup>

Area per Family -

N/A

Off-street Parking -

Loading Bays -

Site Plan -

2011-286

Shoreland Zoning/Stream Protection -

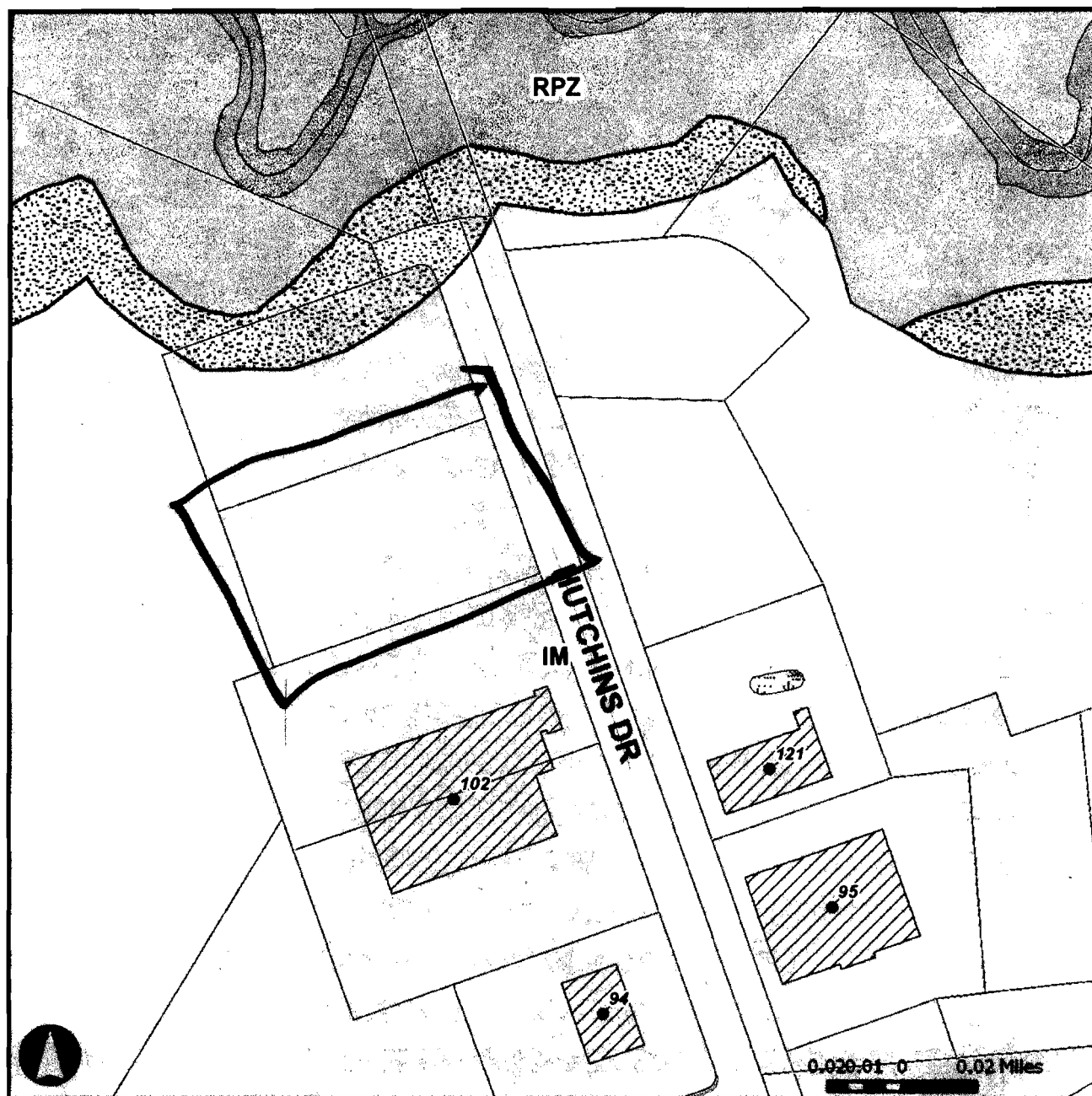
Bridge deck

Flood Plains -

12 ft 17' -

30' private Damage easement  
10' edge of pavement

# Map



## Address Candidates



## Address Candidates



## Parcels



## Interstate



## Shoreland Overlay Zone



## Stream Overlay Zone



Stream\_protection

## Island Zoning



C43



I-B



I-TS

## Zoning (continued)



R1 Residential



R2 Residential



R3 Residential



R4 Residential



R5 Residential



R6 Residential



ROS Recreation Open

## Zoning (continued)



C25



C26



C27



C28



C29



C30



C31

after  
consolidation



TAX MAP 240, BLOCK A, LOT 5  
SPRING HARBOR HOSPITAL  
216 VAUGHAN ST. GROUND FLOOR  
WESTBROOK, ME 04092

TREE SAVE  
AREA

STREAM  
LOCATION

EXISTING  
30' EASEMENT  
(REFERENCE 2)

TREE SAVE  
AREA

TREE SAVE  
AREA

PROPOSED  
REPLACEMENT  
TREE (5 TOTAL)  
(SEE NOTE 10)

25' WETLAND  
SETBACK

25' STREAM  
SETBACK

75' STREAM  
SETBACK

25' SETBACK

TREE SAVE  
AREA

PARKING AREA  
TREES (6 TOTAL)

SNOW  
STORAGE

20' SETBACK

EXT GUARD  
RAIL

EXISTING  
TREELINE

EXISTING DRAINAGE  
EASEMENT TO THE  
CITY OF PORTLAND  
(REFERENCE 2)

HUTCHINS DRIVE  
(SPEED LIMIT 30 M.P.H.)

STREET TREES  
(4 TOTAL)

SIGHT  
DISTANCE  
300' + 300' +  
300'

WETL  
UTILI  
EXT.  
EXT.  
EXT.  
EXT.  
PRP.  
PRP.  
PRP.  
PRP.  
WATE  
WATE  
SEWE  
LIGHT  
BROS  
PROP  
EXIST  
ASPH  
SLOP  
VERT  
EXIST  
FIRE  
LAND  
SPOT

PROPOSED DETENTION  
POND 20

SALT SHED  
40' X 60'

SNOW  
STORAGE

PROPOSED DUMPSTER  
WITH 6' HIGH STOCKADE  
FENCE

BOLLARD  
(TYP)

OVERHEAD  
DOOR (TYP)

PROPOSED BUILDING  
7,000 SF  
64.8' X 108'  
F.F.E. = 59.5'

6' ROOF OVERHANG

PROPOSED WALL PACK  
(TYP)

22'

TIP DOWN

PROPOSED TIMBER  
GUARDRAIL

14

6' X 18'  
STANDARD  
PARKING SPACE

TIP DOWN

VOC

10'

TIP DOWN

PROPOSED PROJECT  
SIGN BY OWNER  
(SEE NOTE 9)

PROPOSED SIDEWALK

STOP SIGN/ STOP BAR

TAX MAP 5, LOT 17  
SPRING HARBOR HOSPITAL  
123 ANDOVER ROAD  
WESTBROOK, ME 04092

EXISTING EDGE OF  
PAVEMENT  
(TYP)

TAX MAP 240, LOT 3  
TRINITY BUILDING 11.0

8/25/11 plans

## **Jeanie Bourke - RE: 144 Hutchins Drive Permit**

---

**From:** Jeanie Bourke  
**To:** Aaron Bateman  
**Date:** 12/1/2011 10:44 AM  
**Subject:** RE: 144 Hutchins Drive Permit  
**CC:** 'Dorian Tarling'; 'Josh Cushman'; Bill Southworth; Ken Wood; Philip ...

---

Hi Aaron,  
See below in red for the response to your comments. Let me know if you have further questions.  
Thanks,  
Jeanie

*Jeanie Bourke*  
*CEO/LPI/Plan Reviewer*

**City of Portland**  
**Planning & Urban Development Dept./ Inspections Division**  
**389 Congress St. Rm 315**  
**Portland, ME 04101**  
**jmb@portlandmaine.gov**  
**Direct: (207) 874-8715**  
**Office: (207) 874-8703**

>>> Aaron Bateman <abateman@phoenixmanagementcompany.com> 11/30/2011 4:27 PM >>>  
Hi Jeanie,

Quick follow up:

Heated Building Com Check will be provided as requested. (Sorry for the confusion).

Thanks  
Aaron

---

**From:** Aaron Bateman  
**Sent:** Wednesday, November 30, 2011 2:37 PM  
**To:** 'JMB@portlandmaine.gov'  
**Cc:** 'Philip DiPierro'; Josh Cushman; Dorian Tarling; Bill Southworth  
**Subject:** FW: 144 Hutchins Drive Permit

Hi Jeanie,

I have a few questions regarding our permit application and the list sent below.

Geotechnical report was not required by either engineer who have provided or will be providing the foundation plans for the main building. Both designers have assumed a conservative soil bearing capacity based on know soil conditions. Not sure why we would have to provide an additional report, please explain.  
A Geotechnical investigation is required per IBC 2009 Sec. 1803.2 with exception for waiver where "satisfactory data from adjacent areas is available that demonstrates an investigation is not necessary". I did a little research of records for another project on Hutchins Dr from 2006. While this may not be near this site, the soils site class



was E and the seismic design category was D. Since I have not been provided the design certification data sheet for this project, I do not know what the engineer has specified.

Construction plans, etc, will be provided as requested.

Statement of Special inspections; we are assuming that the City will be providing all the necessary inspections regarding the utility connections (water & sewer). As far as any other inspection we are not sure what this would entail, could you please provide a list. Our thinking is that this is a private development and there are no extensions of any municipal owned infrastructures so the risk is ours and therefore there would be no special inspections required.

Special Inspections of the building construction are required per IBC 2009 Sec. 1704. Tables in this section list the required inspection intervals for the specific construction aspects, ie., concrete, steel, bolts, welding, fabrication, masonry, etc. The content of the prepared statement is in Sec. 1705

Certificate of design, etc will be provided as requested.

Heated building, ComCheck certificate of compliance is something we are not familiar with, could you please further explain what this is.

I appreciate the help with this, my direct number is 571-3061 and would be happy to walk through each issue.

Thanks  
Aaron

---

**From:** Jeanie Bourke [mailto:JMB@portlandmaine.gov]  
**Sent:** Wednesday, November 30, 2011 8:37 AM  
**To:** Dorian Tarling  
**Cc:** Josh Cushman  
**Subject:** Re: 144 Hutchins Drive Permit

Hi Dorian,  
Thank you for contacting me, I had not heard back from Josh since we spoke....  
Here is the list of required details:

- Geotechnical report
- Construction plans, details, including third party stamped plans if this is a prefabricated structure
- Statement of Special inspections
- Certificate of design, design criteria as per the permit application documents
- Heated building, ComCheck Certificate of Compliance

Let me know if you have any questions.

Jeanie

**Marge Schmuckal - ePlan Review New File Notification for PEZ.2011-286.LEVII.PRSP.743**

---

**From:** <shukriaw@portlandmaine.gov>  
**To:** <mes@portlandmaine.gov>  
**Date:** 10/3/2011 9:57 AM  
**Subject:** ePlan Review New File Notification for PEZ.2011-286.LEVII.PRSP.743



**New File Notification - Please DO NOT reply to this email.**

144 Hutchins Dr.

Hello Marge Schmuckal:

One or more files have been added to the project listed below. Please contact the appropriate department at the numbers listed below if you have any questions regarding this email.

Project Name: PEZ.2011-286.LEVII.PRSP.743  
Path: PEZ.2011-286.LEVII.PRSP.743\Drawings  
Uploaded By: Shukria Wiar  
[Login to ePlan Review](#)

Files: 1. [C010-11Submittal.pdf](#)  
2. [SITE PLAN SET.pdfV2](#)

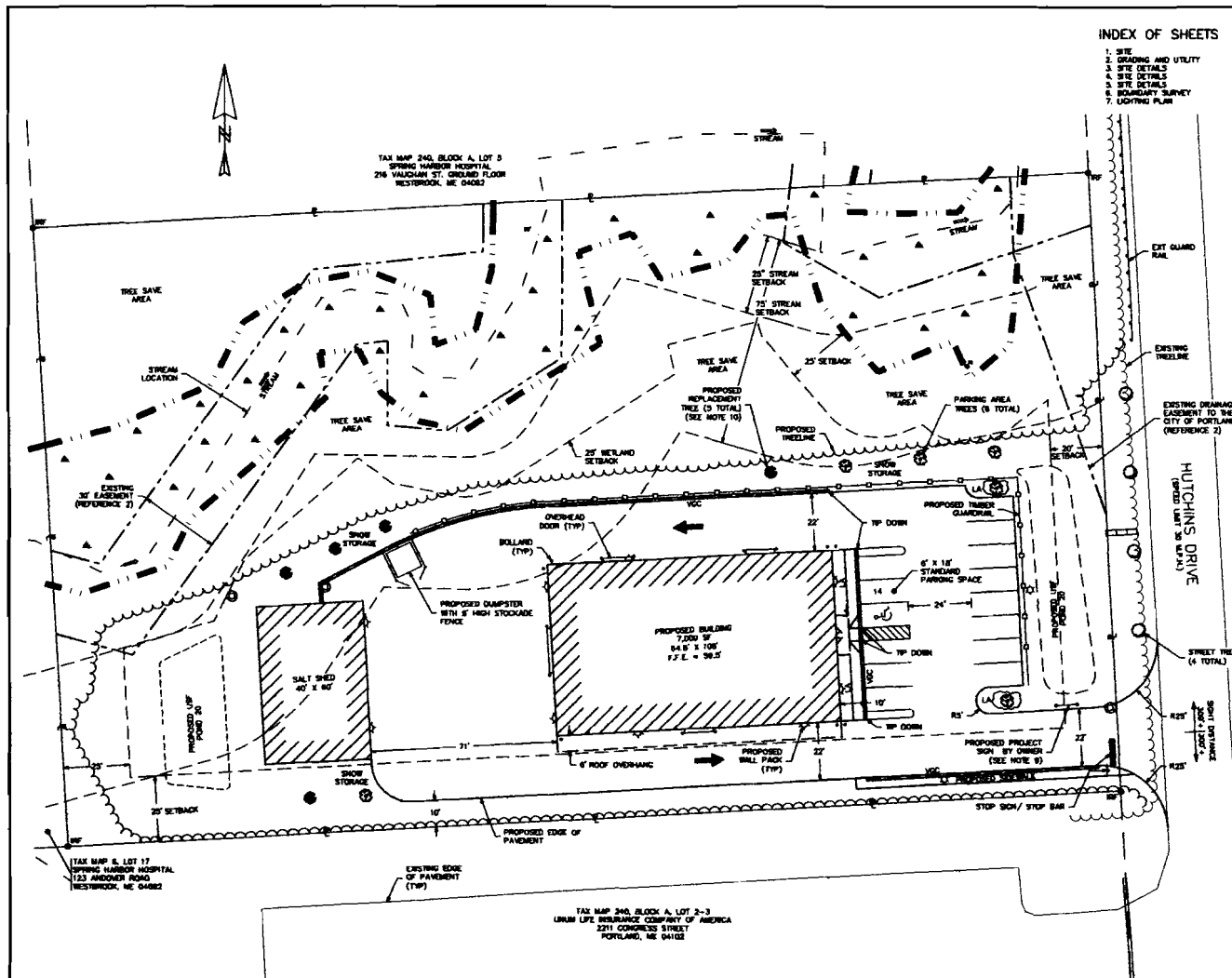
If you do not have access to the specified folder, please contact the [Project Administrator](#).

Department of Planning and Urban Development  
City of Portland  
389 Congress Street  
Portland, ME 04101

Planning Division, Development Review Services  
(207) 874-8719

Building Permits  
(207) 874-8703

10/5/11

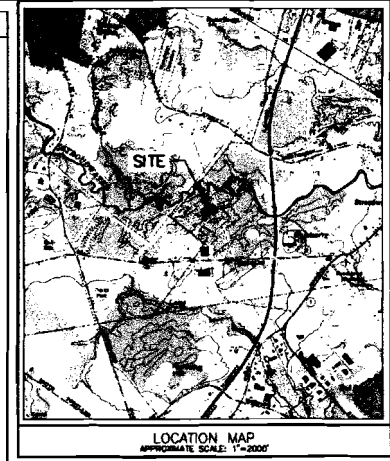


# INDEX OF SHEETS

1. SITE
2. GRADING AND UTILITY
3. SITE DETAILS
4. SITE DETAILS
5. SITE DETAILS
6. BOUNDARY SURVEY
7. LIGHTING PLAN

# LEGEND

EXISTING CONTOUR	---	---
FINAL CONTOUR	---	---
WETLAND BOUNDARY	---	---
UTILITY POLE	EXT. TO	PPR. TO
EXT. WATER	---	---
EXT. SEWER	---	---
EXT. OVERHEAD UTIL.	---	---
EXT. UNDERGROUND UTIL.	---	---
EXISTING EASEMENT	---	---
PPR. WATER	---	---
PPR. SEWER	---	---
PPR. UTILITY	---	---
PPR. GAS	---	---
WATER VALVE	---	---
WATER SHUTOFF	---	---
WATER METER	---	---
LIGHT POLE	EXT. TO	PPR. TO
PROPOSED CONTROL ROOM	---	---
PROPOSED FENCE	---	---
EXISTING FENCE	---	---
ASPHALT CURB	---	---
SLOPED GRANITE CURB	---	---
VERTICAL GRANITE CURB	---	---
EXISTING CURB	---	---
FIRE HYDRANT	EXT. TO	PPR. TO
LANDSCAPED AREA	---	---
SPOT GRADE	EXT. TO	PPR. TO



# GENERAL NOTES

1. THIS PLAN PROVIDES DETAILS FOR THE APPROVAL AND CONSTRUCTION OF A 7,000 SF INDUSTRIAL BUILDING WITH A SEPARATE 2,000 SF SALT SHED IN PORTLAND, MAINE. THE SITE IS LOCATED AT 144 HUTCHINS DRIVE AND IS BOUNDARY ON THE CITY OF PORTLAND TAX ASSESSOR'S MAP 240, BLOCK A, LOT 4 AND IS 2.16 ACRES IN AREA WITH 230' OF STREET FRONTAGE ON HUTCHINS DRIVE.
2. THE PROPOSED BUILDING (APPROXIMATELY 7,000 SF FOOTPRINT) SHALL BE A MAINTENANCE FACILITY FOR PHOENIX MANAGEMENT. THE MAIN BUILDING WILL BE USED FOR STORING AND SERVICING EQUIPMENT (PLOW TRUCKS, BACK HOE LOADERS, DISCATS, TRACTORS, MOWERS, ETC.) FOR THE MAJORITY OF THE YEAR. HOURS SHALL BE FROM 8AM TO 5PM. DURING THE WINTER MONTHS THE FACILITY SHALL BE USED TO STORE AND SELL SALT TO LOCAL CUSTOMERS. HOURS OF OPERATION DURING SNOW EVENTS SHALL BE 24 HOURS.
3. THE PARCEL IS LOCATED IN THE INDUSTRIAL-MODERATE IMPACT (IM) DISTRICT. DISTRICT REQUIREMENTS ARE AS FOLLOWS:  
MIN LOT SIZE = 8,000 SF  
MIN STREET FRONTAGE = 80'  
FRONT YARD (BUILDING HEIGHT) = 30'  
MIN REAR AND SIDE YARD = 25'  
MAX BUILDING HEIGHT = 12'
4. MAXIMUM IMPERVIOUS SURFACE RATIO ALLOWED IS 75% IN THE INDUSTRIAL-MODERATE IMPACT DISTRICT. COVERAGE CALCULATIONS ARE AS FOLLOWS:  
28,130 SF // 84,000 SF = 33.6%
5. BOUNDARY, TOPOGRAPHIC AND WETLAND INFORMATION WAS TAKEN FROM REFERENCE 1 AND FIELD OBSERVATIONS TAKEN BY ATTAR ENGINEERING IN MAY OF 2011.
6. REQUIRED PARKING IS CALCULATED AS FOLLOWS:  
7,000 S.F. INDUSTRIAL SPACE  
(1/1,000 S.F.)  
TOTAL = 7 SPACES  
14 SPACES ARE PROVIDED, OF WHICH 1 SPACE IS ADA ACCESSIBLE.
7. WATER AND SEWER SERVICE SHALL BE PROVIDED TO THE SITE BY THE PORTLAND WATER DISTRICT. WATER AND SEWER IMPROVEMENTS SHALL BE INSTALLED IN ACCORDANCE WITH RESPECTIVE DISTRICT REQUIREMENTS.
8. THE CONTRACTOR MUST CONTACT DIG SAFE AND ALL LOCAL UTILITIES PRIOR TO THE START OF CONSTRUCTION TO VERIFY THE LOCATION OF EXISTING SUBSURFACE UTILITIES AND CONDITIONS. LOCATING AND PROTECTING ANY UNDERGROUND OR ABOVE GROUND UTILITY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
9. PROPOSED SIGN SHALL BE SUBJECT TO APPROVAL PURSUANT TO SECTION 14-536 (d) B.A. (IV) OF THE LAND USE CODE.
10. REPLACEMENT TREES MUST BE LISTED ON THE CITY OF PORTLAND APPROVED NATIVE SPECIES LIST. SEE EXISTING CONDITIONS PLAN FOR TREE SURVEY INFORMATION. STREET TREES MUST MEET ALL STANDARDS SET FORTH IN THE CITY OF PORTLAND BOTANICAL MANUAL, SECTION 4.7. THE PLANTING OF ADDITIONAL TREES AND SHRUBS, IF NECESSARY, TO BE DETERMINED BY THE CITY ARBORIST AND PROJECT TEAM AT THE COMPLETION OF THE PROJECT.
11. SEE BUILDING FLOOR PLAN FOR BICYCLE PARKING AREA.

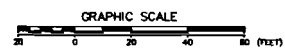
# REFERENCES

1. "CONCEPTUAL PLAN - LOT 17" PREPARED BY THE BOULOS COMPANY BY ITTOM ASSOCIATES, DATED 1/20/2011.
2. "WETLAND/ESTUARINE" PREPARED BY H. I. & E. C. JORDAN - SURVEYORS, DATED 10 SEPTEMBER 1994, RECORDED IN THE CUMBERLAND COUNTY REGISTRY OF DEEDS PLAN BOOK 144, PAGE 72.

# CITY OF PORTLAND PLANNING BOARD

DATE

STATE OF MAINE  
CUMBERLAND COUNTY REGISTRY OF DEEDS  
RECORDED AT \_\_\_\_\_ M. AND RECORDED IN  
PLAN BOOK \_\_\_\_\_ PAGE \_\_\_\_\_  
ATTEST \_\_\_\_\_ REGISTER



APPLICANT: PHOENIX MANAGEMENT OWNER OF RECORD: NAME ALPHA FLOOR SANDING  
PO BOX 578 23 RABBIT RUN  
SACD, ME 04072-5118 PORTLAND, ME 04102-2275

# NOT FOR CONSTRUCTION

NO.	REVISION	DATE
1.	REVISION	06/16/11
2.	REVISION	06/23/11
3.	REVISION	DATE
4.	REVISION	DATE
5.	REVISION	DATE
6.	REVISION	DATE
7.	REVISION	DATE
8.	REVISION	DATE
9.	REVISION	DATE
10.	REVISION	DATE

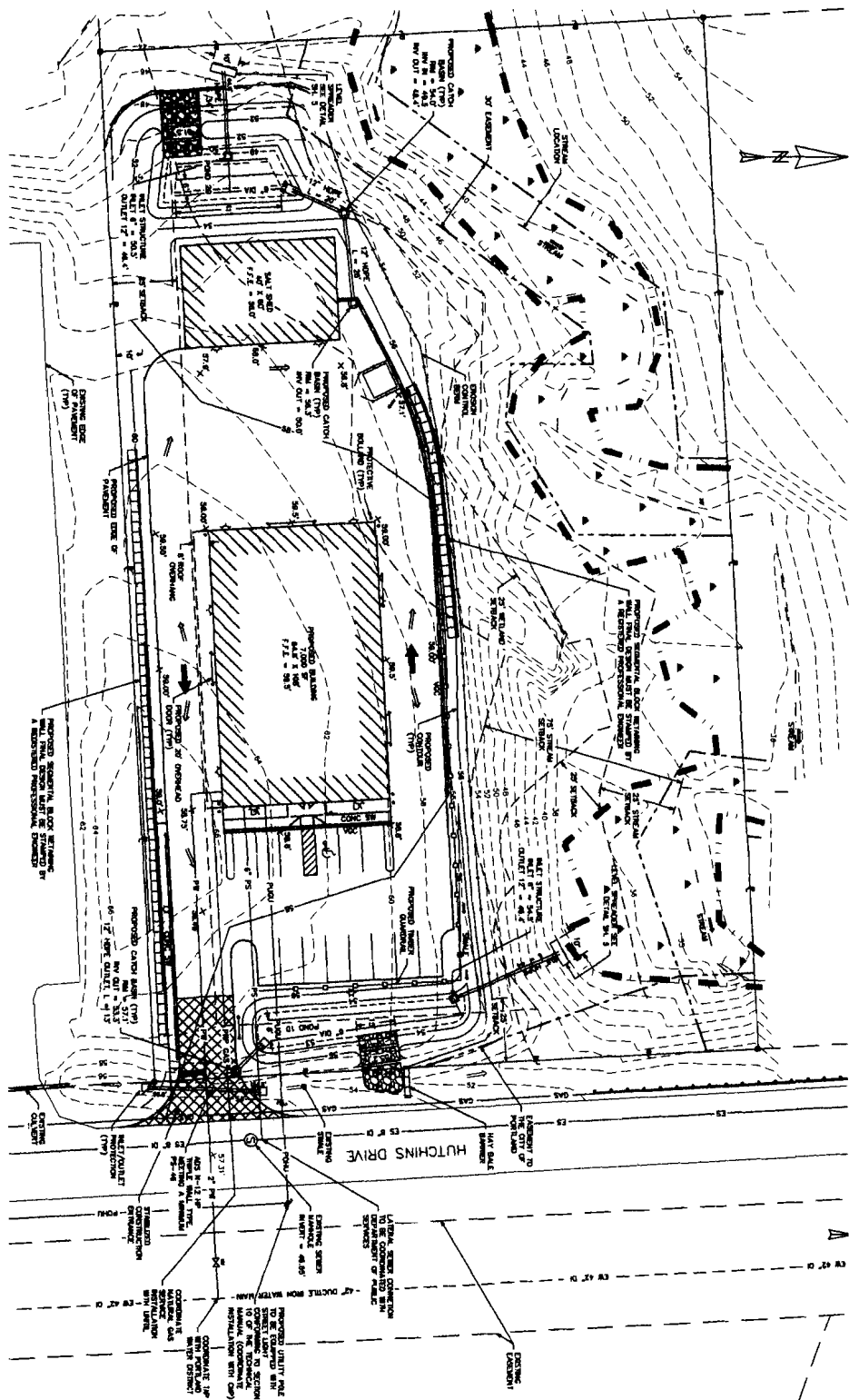
**SITE PLAN**  
144 HUTCHINS DRIVE  
HUTCHINS DRIVE, PORTLAND, MAINE

FOR: PHOENIX PROPERTY SERVICES  
PO BOX 759  
SACD, ME 04072-5118

**ATTAR ENGINEERING, INC.**  
C/O STRUCTURAL & LAND  
1284 STATE ROAD - ELDT, MAINE 03903  
PHONE: (207) 436-8023 FAX: (207) 436-2128

SCALE: 1" = 20'  
DATE: 06/17/11  
JOB NO: C010-11 CAD FILE: HUTCHINS SITE

APPROVED BY: CLS  
DESIGNED BY: CLS  
REVISION - DATE  
B : 06/16/11  
SHEET 1 OF 7



10/5/11

### **Primary use of facility**

This facility will be primarily used as a storage and maintenance shop for landscaping tools and equipment.

The facility will also be used for storage and resale of salt/ salt sand during winter months and bark mulch and loam during spring, summer months.

### **Normal business hours**

Normal business hours will be primarily 5am to 9pm Monday through Saturday. During winter snow events the facility will be a 24 hour a day operation.

### **Salt/ salt sand control measures**

Amount of material stored on site is not to exceed 500 yards.

Material will be delivered by trailer dumps. Material will be dumped directly into shed. Any spillage onto parking lot will be immediately swept into shed.

Material will be loaded with a wheel loader primarily from inside the building.

The entire area will be swept up and material hauled off site at the end of the snow event.

Concrete and pavement will be assessed annually for cracks/deterioration and will be sealed accordingly.

144 Hutchins Drive – 2011-286

10/5/2011

The applicant has submitted final plans and comments. The plans and comments do not change the previous zoning approval. All previous conditions of approval are still in force.

Marge Schmuckal

Zoning Administrator

## **Fire Department Permit Requirements**

**Project:** 144 Hutchins Drive  
Portland, ME 04104

**Applicant:** Phoenix Property Services LLC  
PO Box 759  
Saco, ME 04072

**Proposed Use of Structure:** Industrial Warehouse

**SF of Proposed Structure:** 6,825

**Existing and Proposed Fire Protection of Structure:** Existing—none, Proposed—non sprinkled

**Jeanie Bourke - FW: FW: Foundation Plans & Anchor Bolt Plans / Reactions**

---

**From:** Aaron Bateman <abateman@phoenixmanagementcompany.com>  
**To:** "Jeanie Bourke" <JMB@portlandmaine.gov>  
**Date:** 12/15/2011 10:34 AM  
**Subject:** FW: FW: Foundation Plans & Anchor Bolt Plans / Reactions  
**CC:** "Matthew J. Miller, P.E." <matt@m2se.com>, "Josh Cushman" <jcushman@...  
**Attachments:** Phoenix Seismic.pdf

---

Hi Jeanie,

Just left you a message. I apologize for the confusion but here is where we are. Matt Miller has confirmed that the seismic design category is C. Attached, I believe is his back up information.

We are having Ted Greenlaw/Seacoast revise the plans and specs to match the category C and these will be submitted to you ASAP. It is my hope that you can issue a conditioned permit to us this week to allow us to be able to pour the foundation starting on Monday.

Thanks  
Aaron

---

**From:** Aaron Bateman  
**Sent:** Tuesday, December 13, 2011 1:20 PM  
**To:** 'Jeanie Bourke'  
**Cc:** 'Josh Cushman'; Bill Southworth  
**Subject:** FW: FW: Foundation Plans & Anchor Bolt Plans / Reactions

Hi Jeanie,

Below is Matt's response. Please let me know if we need to provide additional information.

Thanks  
Aaron

---

**From:** Matthew J. Miller, P.E. [mailto:matt@m2se.com]  
**Sent:** Tuesday, December 13, 2011 12:14 PM  
**To:** Aaron Bateman  
**Subject:** RE: FW: Foundation Plans & Anchor Bolt Plans / Reactions

Aaron,

Based on my quick investigation, the Mapped Spectral Accelerations should be:

$S_s = 0.322$

$S_1 = 0.078$

Based on these values the Design Spectral Accelerations for Site Class E should be:

$S_{ds} = 0.487$

$S_{d1} = 0.182$



>>> Aaron Bateman <[abateman@phoenixmanagementcompany.com](mailto:abateman@phoenixmanagementcompany.com)> 12/9/2011 11:06 AM >>>  
Hi Jeanie,

I have called Josh from Portland Builders asking him to take care of the Com Check certificates. I do not believe these have been provided to date. In the mean time if you could issue the permit with this as a remaining condition that would be great.

I could send someone over today to grab it if that is possible.

Thanks for all the help on this!

Aaron

---

**From:** Jeanie Bourke [<mailto:JMB@portlandmaine.gov>]  
**Sent:** Friday, December 09, 2011 11:02 AM  
**To:** Aaron Bateman  
**Subject:** RE: FW: Foundation Plans & Anchor Bolt Plans / Reactions

Thanks Aaron, that's fine for the additional services information.

The only remaining item I have is the Com Check certificates, did I miss seeing these in an email?  
Let me know if this is forthcoming, if not, I could issue the permit with a condition for this.  
Jeanie

>>> Aaron Bateman <[abateman@phoenixmanagementcompany.com](mailto:abateman@phoenixmanagementcompany.com)> 12/9/2011 9:00 AM >>>  
Hi Jeanie,

Attached is the statement of special Inspections. There is a small scope of services by others that will be performed by SW Cole. As soon as I have their info in hand I will forward it.

Could you send us a quick update of where you see the project permit at this point. We would like to start the foundation next week and are hoping the full permit could be pulled early in the week.

Thanks  
Aaron

---

**From:** Jeanie Bourke [<mailto:JMB@portlandmaine.gov>]  
**Sent:** Thursday, December 08, 2011 8:46 AM  
**To:** Aaron Bateman  
**Cc:** Bill Southworth; Josh Cushman  
**Subject:** Re: FW: Foundation Plans & Anchor Bolt Plans / Reactions

Hi Aaron,  
In addition to the scope and agreement of special inspections provided, please submit the "Draft (or finalized) Statement of Special Inspections dated December 6, 2011", and the Services By Others as outlined in Exhibit A.  
Thanks'  
Jeanie

## Jeanie Bourke - FW: Revised Foundation Plans

---

**From:** Aaron Bateman <abateman@phoenixmanagementcompany.com>  
**To:** Josh Cushman <jcushman@portlandbuilders.com>  
**Date:** 12/15/2011 2:53 PM  
**Subject:** FW: Revised Foundation Plans  
**CC:** Bill Southworth <BSouthworth@phoenixmanagementcompany.com>, "JeanieBourke"  
**Attachments:** 16838 Anchor Bolt Plans.pdf; Permits rev 2.pdf; Stamped Foundation Plans - Revised 12-09-2011.pdf

---

Hi Josh,

Please see Bill's e-mail below.

Thanks  
Aaron

---

**From:** William J. Belanger III [mailto:wjb3@seacoastcranebuilding.com]  
**Sent:** Thursday, December 15, 2011 2:45 PM  
**To:** Aaron Bateman  
**Subject:** Revised Foundation Plans

Aaron,

Attached are the revised foundation plans, anchor bolt plans & reactions, and permit plans. I should have a stamped set of permit drawings tomorrow along with a revised certificate of design.

On the revised anchor bolt plans and reactions (to be used in conjunction with the foundation plan) please note the following; Plate F is now noted on the revised plans. We previously sent the base templates to Portland Builders which include Base Plates A through E (4 of the these plates are labeled D). On the revised plans the plates labeled D will be used at locations D & F. No new plates are required to be sent. Please forward this information along to your foundation contractor. Please also note that the orientation of each plate is specifically detailed on the anchor bolt plan (page5).

Any questions, let us know.

Thanks,

Bill III

**William J. Belanger III**  
**Seacoast Crane & Building Co., Inc.**  
**P.O. Box 540 :: 98 Route 236**  
**Kittery, Maine 039040**  
**www.seacoastcranebuilding.com**



114 Rosemont Lane Imler, PA 16655

16838 Certificate of Design.ME.doc

Revised 8/17/2009

# Certificate of Design

This Certificate is to confirm that all components of the Steel Building System described below, to be supplied by Corle Building Systems, produced at its Facility at Imler, PA, have been or will be designed in accordance with the following standards, loads, and design criteria as specified in the order documents.

## Project/Building Description

**CBS Factory Order Number:** FO-16838

**Purchaser/Customer Information:** Seacoast Crane & Building Co., Inc.  
P.O. Box 540  
Kittery, ME 03904

**Project Name and Location:** Phoenix Property Management  
Hutchins Drive  
Portland, ME 04101

### Building Geometry:

**Width:** 65'-0"  
**Length:** 105'-0"  
**Eave Height:** 17'-3"  
**Roof Slope:** 3.00/12

PDFL

## Design Standards

AISC: *Specification for Structural Steel for Buildings, Allowable Stress Design/9<sup>th</sup> Ed.*

AISI: *North American Specification for the Design of Cold-Formed Steel Structural Members, 2001 Ed.*

AWS D1.1/D1.1M: *Structural Welding Code - Steel, 2006 Ed.*

MBMA: *Metal Building Systems Manual, 2006 Edition*

## Design Load Criteria

**Building Code:** International Building Code, 2009

**Dead Load:** 2.63 psf plus primary framing actual weight

**Collateral Load:** 5 psf

**Roof Live Load:** 20 psf

**Frame Live Load:** 20 psf

**Snow Load Criteria:** *Ground Snow Load,  $p_g$ :* 60 psf  
*Snow Exposure Factor,  $C_e$ :* 1.00  
*Snow Importance Factor,  $I_s$ :* 1.00

*Thermal Factor,  $C_t$ :* 1.00  
*Flat Roof Snow Load,  $p_f$ :* 42 psf

**Wind Load Criteria:** *Basic Wind Speed:* 100 mph  
*Terrain Exposure:* B  
*Wind Importance Factor,  $I_w$ :* 1.00

*Occupancy Category:* II  
*Internal Pressure Coefficients:* +0.18/-0.18  
*Components and Cladding not by CBS:* +17.97 psf  
-24.02 psf

**Seismic Criteria:** *Design Category:* C  
*Site Class:* E  
*Seismic Importance Factor,  $I_e$ :* 1.00  
*Occupancy Category:* II  
*Analysis Procedure:* Equivalent Lateral Force Procedure  
*Basic Seismic Force Resisting Systems:* Frame: Ordinary Steel Moment Frames  
FSW,BSW,LEW,REW: Ordinary Steel Concentrically Braced Frames  
*Response Modification Factors,  $R$ :* Frame = 3.25 FSW = 3.25 BSW = 3.25  
*Seismic Response Coefficients,  $C_s$ :* Frame = 0.162 FSW = 0.162 BSW = 0.162  
*Seismic Base Shear,  $V$ :* Longitudinal = 22.32 kips Transverse = 29.94 kips

**Mezzanine Loads:** *Dead Load:* N/A  
*Collateral Load:* N/A  
*Live Load:* N/A

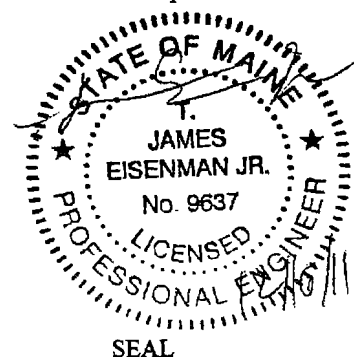
**Additional Loads:** N/A

## Certification by Engineer

I, T. James Eisenman, Jr., P.E., a licensed engineer in the State of Maine, certify that I have reviewed the design criteria for the steel building system described above and to the best of my knowledge all components have been designed to meet the applicable criteria as specified in the Order Documents.

Signature

12/16/11  
Date



SEAL

Project: New Building for Phoenix Property Management  
 Date Prepared: December 8, 2011

## Structural Statement of Special Inspections

Project: *New Building for Phoenix Property Management*

Location: *Hutchins Drive, Portland, Maine*

Owner: *Phoenix Property Management*

This Statement of Special Inspections encompass the following discipline: **Structural - Foundations**

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 Structural Special Inspection Coordinator (SSIC) and the identity of other approved agencies to be retained for conducting these inspections and tests.

The Structural Special Inspection Coordinator shall keep records of all Structural inspections and shall furnish inspection reports to the Building Code Official (BCO) and the Structural Registered Design Professional in Responsible Charge (SRDP). 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 Structural 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 Structural Registered Design Professional in Responsible Charge at an interval determined by the SSIC and the BCO.

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 to the BCO 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: ☒ Upon request of Building Official \_\_\_\_\_ or ☐ per attached schedule.

Prepared by:

*Theodora Greenlaw*

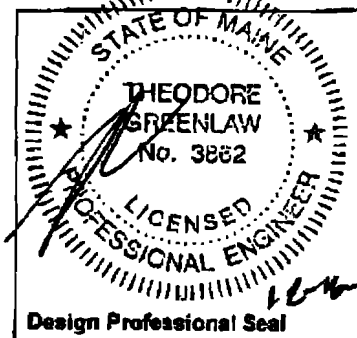
(type or print name of the Structural Registered Design Professional in Responsible Charge)

Signature \_\_\_\_\_

Date \_\_\_\_\_

*12-16-11*

*December 16, 2011*



Owner's Authorization:

Building Code Official's Acceptance:

Signature \_\_\_\_\_

Date \_\_\_\_\_

Signature \_\_\_\_\_

Date \_\_\_\_\_

*PDFV*

1 of 8

RECEIVED  
 DEC 20 2011  
 Dept. of Building Inspections  
 City of Portland Maine

Project: New Building for Phoenix Property Management  
Date Prepared: December 8, 2011

## Structural Statement of Special Inspections

Project: *New Building for Phoenix Property Management*

Location: *Hutchins Drive, Portland, Maine*

Owner: *Phoenix Property Management*

This Statement of Special Inspections encompass the following discipline: **Structural – Metal Building**

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 Structural Special Inspection Coordinator (SSIC) and the identity of other approved agencies to be retained for conducting these inspections and tests.

The Structural Special Inspection Coordinator shall keep records of all Structural inspections and shall furnish inspection reports to the Building Code Official (BCO) and the Structural Registered Design Professional in Responsible Charge (SRDP). 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 Structural 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 Structural Registered Design Professional in Responsible Charge at an interval determined by the SSIC and the BCO.

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 to the BCO 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.

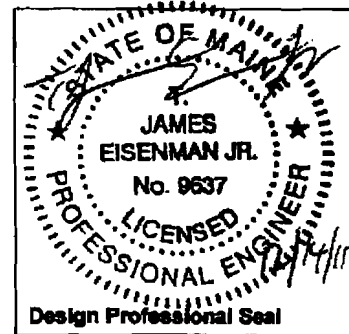
Interim Report Frequency: ☒ Upon request of Building Official \_\_\_\_\_ or ☐ per attached schedule.

Prepared by:

T. James Eisenman, Jr., PE  
(type or print name of the Structural Registered Design Professional in Responsible Charge)

T. J. Eisenman, Jr.  
Signature

12/14/11  
December 8, 2011  
Date



Owner's Authorization:

Building Code Official's Acceptance:

Signature \_\_\_\_\_ Date \_\_\_\_\_

Signature \_\_\_\_\_ Date \_\_\_\_\_

RECEIVED  
DEC 20 2011  
Dept. of Building Inspections  
City of Portland Maine

specifically stated to the contrary in any written consent to an assignment, no assignment will release or discharge the assignor from any duty or responsibility under this Agreement. Nothing contained in this paragraph shall prevent the SI from employing such independent consultants, associates and subcontractors as deemed appropriate to assist in the performance of services hereunder.

- 5.1.4 The SI and Client agree that the services performed by the SI to this Agreement are solely for the benefit of the Client and are not intended by either the SI or the Client to benefit any other person or entity. To the extent that any other person or entity is benefited by the services performed by the SI pursuant to this Agreement, such benefit is purely incidental and such other person or entity shall not be deemed a third party beneficiary to this Agreement.

## **5.2 Dispute Resolution**

- 5.2.1 The SI and Client agree to negotiate any claim(s) or dispute(s) arising out of or related to the agreement between them in good faith prior to exercising any other provision of this Agreement.
- 5.2.2 If a claim or dispute between the SI and Client cannot be settled within 30 days by good faith negotiations the SI and Client agree to submit it to mediation in accordance with the mediation rules of the American Arbitration Association.
- 5.2.3 If the claim or dispute cannot be settled by good faith negotiations or mediation then either party may exercise their rights under law.
- 5.2.4 In no event shall a claim or dispute be made or sustained if it would be barred by the applicable statute of limitations.

## **5.3 Governing Laws**

- 5.3.1 This Agreement shall be governed by the laws of the principal place of business of the SI.

**Jeanie Bourke - FW: FW: Foundation Plans & Anchor Bolt Plans / Reactions**

---

**From:** Aaron Bateman <abateman@phoenixmanagementcompany.com>  
**To:** "Jeanie Bourke" <JMB@portlandmaine.gov>  
**Date:** 12/15/2011 10:34 AM  
**Subject:** FW: FW: Foundation Plans & Anchor Bolt Plans / Reactions  
**CC:** "Matthew J. Miller, P.E." <matt@m2se.com>, "Josh Cushman" <jcushman@...  
**Attachments:** Phoenix Seismic.pdf

---

Hi Jeanie,

Just left you a message. I apologize for the confusion but here is where we are. Matt Miller has confirmed that the seismic design category is C. Attached, I believe is his back up information.

We are having Ted Greenlaw/Seacoast revise the plans and specs to match the category C and these will be submitted to you ASAP. It is my hope that you can issue a conditioned permit to us this week to allow us to be able to pour the foundation starting on Monday.

Thanks  
Aaron

---

**From:** Aaron Bateman  
**Sent:** Tuesday, December 13, 2011 1:20 PM  
**To:** 'Jeanie Bourke'  
**Cc:** 'Josh Cushman'; Bill Southworth  
**Subject:** FW: FW: Foundation Plans & Anchor Bolt Plans / Reactions

Hi Jeanie,

Below is Matt's response. Please let me know if we need to provide additional information.

Thanks  
Aaron

---

**From:** Matthew J. Miller, P.E. [mailto:matt@m2se.com]  
**Sent:** Tuesday, December 13, 2011 12:14 PM  
**To:** Aaron Bateman  
**Subject:** RE: FW: Foundation Plans & Anchor Bolt Plans / Reactions

Aaron,

Based on my quick investigation, the Mapped Spectral Accelerations should be:  
 $S_s = 0.322$   
 $S_1 = 0.078$

Based on these values the Design Spectral Accelerations for Site Class E should be:

$S_{ds} = 0.487$   
 $S_{d1} = 0.182$

Since this is a category II building these values correspond to a Seismic Design Category C.

A copy of my backup information is attached, where the design values for the 2009 IBC are based on the 2003 NEHRP provisions.

In review of the anchor rod drawings, the SER has the values of  $S_s$  and  $S_1$  listed at 0.41 and 0.1. If we use these higher values, then yes the building would be in seismic design category D.

I would recommend that the EOR from CORLE review the seismic values, and adjust them as necessary.

Please let me know if you have any questions or need any additional information.

Regards,

Matt

---

**From:** Aaron Bateman [mailto:abateman@phoenixmanagementcompany.com]  
**Sent:** Tuesday, December 13, 2011 10:24 AM  
**To:** 'Matthew J. Miller, P.E.'  
**Subject:** FW: FW: Foundation Plans & Anchor Bolt Plans / Reactions

Hi Matt,

Could you please review the e-mail from Jeanie and get back to me.

Thanks  
Aaron

---

**From:** Jeanie Bourke [mailto:JMB@portlandmaine.gov]  
**Sent:** Friday, December 09, 2011 2:09 PM  
**To:** Aaron Bateman  
**Cc:** Bill Southworth; Josh Cushman  
**Subject:** RE: FW: Foundation Plans & Anchor Bolt Plans / Reactions

Hi Aaron,

I am ok with issuing the permit with certain conditions, however, after further review of the statement of special inspections, I do have a couple of items. I apologize for not seeing this at first.

1. On page 11 of 12, Seismic Resistance, the engineer will need to justify not requiring inspections for 1.a as this is seismic design D
2. Engineers justification for no Quality Assurance Plan for seismic design D, Sec. 1705.3.1 only exempts design C.
3. A sealed and sign copy of the statement will need to be submitted, this can be a condition.

Thanks,  
Jeanie



>>> Aaron Bateman <[abateman@phoenixmanagementcompany.com](mailto:abateman@phoenixmanagementcompany.com)> 12/9/2011 11:06 AM >>>

Hi Jeanie,

I have called Josh from Portland Builders asking him to take care of the Com Check certificates. I do not believe these have been provided to date. In the mean time if you could issue the permit with this as a remaining condition that would be great.

I could send someone over today to grab it if that is possible.

Thanks for all the help on this!

Aaron

---

**From:** Jeanie Bourke [<mailto:JMB@portlandmaine.gov>]  
**Sent:** Friday, December 09, 2011 11:02 AM  
**To:** Aaron Bateman  
**Subject:** RE: FW: Foundation Plans & Anchor Bolt Plans / Reactions

Thanks Aaron, that's fine for the additional services information.

The only remaining item I have is the Com Check certificates, did I miss seeing these in an email? Let me know if this is forthcoming, if not, I could issue the permit with a condition for this.  
Jeanie

>>> Aaron Bateman <[abateman@phoenixmanagementcompany.com](mailto:abateman@phoenixmanagementcompany.com)> 12/9/2011 9:00 AM >>>

Hi Jeanie,

Attached is the statement of special inspections. There is a small scope of services by others that will be performed by SW Cole. As soon as I have their info in hand I will forward it.

Could you send us a quick update of where you see the project permit at this point. We would like to start the foundation next week and are hoping the full permit could be pulled early in the week.

Thanks

Aaron

---

**From:** Jeanie Bourke [<mailto:JMB@portlandmaine.gov>]  
**Sent:** Thursday, December 08, 2011 8:46 AM  
**To:** Aaron Bateman  
**Cc:** Bill Southworth; Josh Cushman  
**Subject:** Re: FW: Foundation Plans & Anchor Bolt Plans / Reactions

Hi Aaron,

In addition to the scope and agreement of special inspections provided, please submit the "Draft (or finalized) Statement of Special Inspections dated December 6, 2011", and the Services By Others as outlined in Exhibit A.

Thanks'

Jeanie

Jeanie Bourke  
CEO/LPI/Plan Reviewer

City of Portland  
Planning & Urban Development Dept./ Inspections Division  
389 Congress St. Rm 315  
Portland, ME 04101  
[jmb@portlandmaine.gov](mailto:jmb@portlandmaine.gov)  
Direct: (207) 874-8715  
Office: (207) 874-8703

>>> Aaron Bateman <[abateman@phoenixmanagementcompany.com](mailto:abateman@phoenixmanagementcompany.com)> 12/7/2011 4:23 PM >>>  
Please find attached a proposal for special inspections.

Thanks  
Aaron

---

**From:** Matthew J. Miller, P.E. [<mailto:matt@m2se.com>]  
**Sent:** Wednesday, December 07, 2011 3:32 PM  
**To:** Aaron Bateman  
**Subject:** RE: Foundation Plans & Anchor Bolt Plans / Reactions

Aaron,

Attached, please find a copy of my proposal for Special Inspection Services. You should be getting a separate proposal from S.W. Cole.

Please let me know if you have any questions.

Regards,

Matt

---

No virus found in this message.  
Checked by AVG - [www.avg.com](http://www.avg.com)  
Version: 2012.0.1873 / Virus Database: 2102/4669 - Release Date: 12/09/11

## Contractor's Statement of Responsibility

---

Each contractor responsible for the construction or fabrication of a system or component designated in the Quality Assurance Plan must submit a Statement of Responsibility. The Statement of Responsibility is required for Seismic Design Category C or higher. Make additional copies of this form as required.

Project:

Contractor's Name:

Address:

License No.:

Description of designated building systems and components included in the Statement of Responsibility:

### Contractor's Acknowledgment of Special Requirements

I hereby acknowledge that I have received, read, and understand the Quality Assurance Plan and Special Inspection program.

I hereby acknowledge that control will be exercised to obtain conformance with the construction documents approved by the Building Official.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

### Contractor's Provisions for Quality Control

Procedures for exercising control within the contractor's organization, the method and frequency of reporting and the distribution of reports is attached to this Statement.

Identification and qualifications of the person(s) exercising such control and their position(s) in the organization are attached to this Statement.

## Structural Schedule of Special Inspections

### SEISMIC RESISTANCE - STRUCTURAL

VERIFICATION AND INSPECTION	Y/N	EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION
<b>IBC Section 1707</b>					
1. Special inspections for seismic resistance. Special inspection as specified in this section is required for the following:			Seismic Design Category: C		
a. The seismic-force-resisting systems in structures assigned to Seismic Design Category C, D, E or F	N	P	IBC 1707.1 - Exempted by Exception of Section 1705.3.1	N/A	PE/SE or EIT
2. Structural steel: Continuous special inspection for structural welding in accordance with AISC 341.	N	P	IBC 1707.2 - Exempted by Exception 1 of Section 1707.2	N/A	AWS-CWI
3. Structural wood:					
a. Continuous special inspection during field gluing operations of elements of the seismic-force-resisting system.	N/A	C	IBC 1702.3		PE/SE or EIT
b. Periodic special inspections for nailing, bolting, anchoring and other fastening of components within the seismic-force-resisting system, including drag struts, braces and hold-downs	N/A	P	IBC 1702.3		PE/SE or EIT
4. Cold-formed steel framing: Periodic special inspections during welding operations of elements of the seismic-force-resisting system. Periodic special inspections for screw attachment, bolting, anchoring and other fastening of components within the seismic-force-resisting system, including struts, braces, and hold-downs	N/A	N			
4. Seismic isolation system. Provide periodic special inspection during the fabrication and installation of isolator units and energy dissipation devices if used as part of the seismic isolation system	N/A	N	IBC 1707.8		

Project: New Building for Phoenix Property Management  
Date Prepared: December 6, 2011

## Structural Schedule of Special Inspection Services

### FABRICATION AND IMPLEMENTATION PROCEDURES – STRUCTURAL STEEL

VERIFICATION AND INSPECTION IBC Section 1704.2	Y/N	EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION
1. Fabrications Procedures: Review of fabricator's written procedural and quality control manuals and periodic auditing of fabrication practices by an approved special inspection agency. At the completion of fabrication, the approved fabricator shall submit a certificate of compliance to the building code official stating that the work was performed in accordance with the approved construction documents. -OR- 2. AISC Certification -OR- 3. International Accreditation Service's AC472 Certification for Metal Building Systems 4. At completion of fabrication, the approved fabricator shall submit a certificate of compliance to the building code official stating that the work was performed in accordance with the approved construction documents.	Y	S	Fabricator shall submit one of the three qualifications	SI1	PE/SE or EIT
At completion of fabrication, the approved fabricator shall submit a certificate of compliance to the building code official stating that the work was performed in accordance with the approved construction documents.	Y	S	IBC 1704.2.2	SI1	PE/SE or EIT

**Project: New Building for Phoenix Property Management**  
**Date Prepared: December 6, 2011**

VERIFICATION AND INSPECTION	Y/N	EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION
IBC Section 1704.3					
5) Floor and roof deck welds	Y	P	AWS D1.3	SI3	AWS-CWI
b. Reinforcing steel:					
1) Verification of weldability of reinforcing steel other than ASTM A706.	Y	C		SI3	
2) Reinforcing steel-resisting flexural and axial forces in intermediate and special moment frames, and boundary elements of special reinforced concrete shear walls and shear reinforcement.	Y	C	AWS D1.4 ACI 318 3.5.2		AWS-CWI
3) Shear reinforcement.	Y	C			AWS-CWI
4) Other reinforcing steel	Y	P			AWS-CWI
7. Inspection of steel frame joint details for compliance (IBC Sect 1704.3.2) with approved construction documents:					
a. Details such as bracing and stiffening.	Y	P	IBC 1704.3.2	SI1	PE/SE or EIT
b. Member locations.	Y	P			PE/SE or EIT
c. Application of joint details at each connection.	Y	P			PE/SE or EIT

Project: New Building for Phoenix Property Management  
Date Prepared: December 6, 2011

### Structural Schedule of Special Inspections - STEEL CONSTRUCTION

VERIFICATION AND INSPECTION	Y/N	EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION
<b>IBC Section 1704.3</b>					
1 Material verification of high-strength bolts, nuts and washers					
a. Identification markings to conform to ASTM standards specified in the approved construction documents.	Y	S	AISC 360, Section A3.3 and applicable ASTM material Standards	SI1	PE/SE or EIT
b. Manufacturer's certificate of compliance required.	Y	S		SI1	PE/SE or EIT
2 Inspection of high-strength bolting					
a. Snug-tight joints	Y	P	AISC 360, Section M2.5  IBC 1704.3.3	SI3	AWS/AISC-SSI
b. Pretensioned and slip-critical joints using turn-of-nut with matchmarking, twist-off bolt or direct tension indicator methods of installation	Y	P			AWS/AISC-SSI
c. Pretensioned and slip-critical joints using turn-of-nut without matchmarking or calibrated wrench methods of installation	Y	C			AWS/AISC-SSI
3 Material verification of structural steel and cold-formed steel deck.					
a. For structural steel, identification markings to conform to AISC 360	Y	S	AISC 360, Section M5.5	SI1	PE/SE or EIT
b. For other steel, identification markings to conform to ASTM standards specified in the approved construction documents.	Y	S	Applicable ASTM material standards	SI1	PE/SE or EIT
b. Manufacturers' certified mill test reports	Y	S	ASTM A 6 or ASTM A 568 IBC Sect 1708.4	SI1	PE/SE or EIT
4 Material verification of weld filler materials:					
a. Identification markings to conform to AWS specification in the approved construction documents.	Y	S	AISC 360, Section A3.5 and applicable AWS A5 documents	SI3	PE/SE or EIT
b. Manufacturer's certificate of compliance required.	Y	S		SI1	PE/SE or EIT
5. Submit current AWS D1.1 welder certificate for all field welders who will be welding on this project.	Y	S	AWS D1.1	SI1	PE/SE or EIT
6 Inspection of welding					
a. Structural steel and cold-formed steel deck:					
1) Complete and partial penetration groove welds.	Y	C	AWS D1.1 IBC 1704.3.1	SI3	AWS-CWI
2) Multipass fillet welds.	Y	C			AWS-CWI
3) Single-pass fillet welds > 5/16"	Y	C			AWS-CWI
4) Single-pass fillet welds < 5/16"	Y	P	AWS D1.1 IBC 1704.3.1		AWS-CWI

## Structural Schedule of Special Inspections

### CONCRETE CONSTRUCTION

VERIFICATION AND INSPECTION	Y/N	EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION
IBC Section 1704.4					
1. Inspection of reinforcing steel, including prestressing tendons, and placement	Y	P	ACI 318: 3.5, 7.1-7.7	SI1 or SI2	PE/SE, EIT or ICC-RCSI
2. Inspection of reinforcing steel welding (Refer to Item 6B in Steel Construction Table below)	Y	P	AWS D1.4 ACI 318: 3.5.2	SI3	AWS-CWI
3. Inspect bolts to be installed in concrete prior to and during placement of concrete where allowable loads have been increased or where strength design is used	Y	C	IBC 1911.5, 1912.1 ACI 318: 8.1.3, 21.2.8	SI1 or SI2	PE/SE, EIT or ICC-RCSI
4. Inspection of anchors installed in hardened concrete	Y	P	IBC 1912.1 ACI 318: 3.8.6, 8.1.3, 21.2.8	SI1 or SI2	PE/SE, EIT or ICC-RCSI
5. Verifying use of required design mix	Y	P	ACI 318: Ch 4, 5.2-5.4	SI1, SI2 or TA1	PE/SE, EIT or ICC-RCSI
6. At time fresh concrete is sampled to fabricate specimens for strength test, perform slump and air content test and temperature  <i>In the absence of project specific specifications, the frequency of testing shall be per the schedule following this table</i>	Y	C	ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8 IBC 1913.10	TA1	ACI-CFTT or ACI-STT
7. Inspection of concrete and shotcrete placement for proper application techniques	Y	C	ACI 318: 5.9, 5.10	SI1, SI2 or TA1	PE/SE, EIT or ICC-RCSI
8. Inspection for maintenance of specified curing temperature and techniques	Y	P	ACI 318: 5.11-5.13	SI1, SI2 or TA1	PE/SE, EIT or ICC-RCSI

#### Concrete Testing Frequency:

Concrete cylinders shall be taken, and fresh concrete tested at least once per placement or at the following intervals:

- |                                  |                |
|----------------------------------|----------------|
| 1. Retaining walls and footings: | 50 cubic yards |
| 2. Isolated Footings:            | 25 cubic yards |
| 3. Slabs:                        | 50 cubic yards |



Project: New Building for Phoenix Property Management  
Date Prepared: December 6, 2011

## Structural Schedule of Special Inspections

### SOILS & FOUNDATION CONSTRUCTION

VERIFICATION AND INSPECTION	Y/N	EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION
IBC Section 1704.7, 1704.8, 1704.9					
Verify existing soil conditions, fill placement and load bearing requirements					
1. Verify materials below shallow foundations are adequate to achieve design bearing capacity	Y	P	IBC 1704.7	SI2	PE/GE, EIT or ETT
2. Verify excavations are extended to proper depth and have reached proper material	Y	P	IBC 1704.7	SI2	PE/GE, EIT or ETT
3. Perform classification and testing of compacted fill materials	Y	P	IBC 1704.7	SI2	PE/GE, EIT or ETT
4. Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill	Y	C	IBC 1704.7	SI2	PE/GE, EIT or ETT
5. Prior to placement of compacted fill, observe subgrade and verify that site has been prepared properly	Y	P	IBC 1704.7	SI2	PE/GE, EIT or ETT

## Structural Schedule of Special Inspections

---

### Qualifications of Inspectors and Testing Technicians

The qualifications of all personnel performing Special Inspection and testing activities are subject to the approval of the Building Official. The credentials of all Inspectors and testing technicians shall be provided to the Special Inspector for their records. *NOTE VERIFICATION THAT QUALIFIED INDIVIDUALS ARE AVAILABLE TO PERFORM STIPULATED TESTING AND/OR INSPECTION SHOULD BE PROVIDED PRIOR TO SUBMITTING STATEMENT. AGENT QUALIFICATIONS IN SCHEDULE ARE SUGGESTIONS ONLY; FINAL QUALIFICATIONS ARE SUBJECT TO THE DISCRETION OF THE REGISTERED DESIGN PROFESSIONAL PREPARING THE SCHEDULE.*

#### Key for Minimum Qualifications of Inspection Agents:

When the Registered Design Professional in Responsible Charge or Special Inspector of Record deems it appropriate that the individual performing a stipulated test or inspection have a specific certification, license or experience as indicated below, such requirement shall be listed below and shall be clearly identified within the schedule under the Agent Qualification Designation.

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

#### Experienced Testing Technician

ETT	Experienced Testing Technician – An Experienced Testing Technician with a minimum 5 years experience with the stipulated test or inspection
-----	---

#### American Concrete Institute (ACI) Certification

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

#### American Welding Society (AWS) Certification

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

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

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

#### International Code Council (ICC) Certification

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

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

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

#### Other

---

Inspection Services (Exhibit A).

2.2.3.2 The SI shall prepare a report following each site visit.

2.2.3.3 The SI shall not be responsible for the means, methods, techniques, sequences, or procedures of construction selected by the Contractor or safety precautions and programs incident to the work of the Contractor.

2.2.3.4 The SI shall not be responsible for the failure of the Contractor to perform the construction work in accordance with the Contract Documents.

2.2.3.5 The SI shall not have the authority to stop work on the project.

2.2.4 Material Testing:

2.2.4.1 The SI shall review reports to determine if the Testing Laboratory(s) has verified conformance of the reported item of work with the Contract Documents.

2.2.4.2 The SI shall bring identified discrepancies to the attention of the Building Official, Prime Design Professional, Structural Engineer of Record, Client and Contractor.

**Section 3 - Fees and Payments**

**3.1 Fees and Other Compensation**

3.1.1 Services and Reimbursable Expenses are as stated in the Letter Agreement.

**3.2 Payments on Account**

3.2.1 Invoices for SI's services shall be submitted on a monthly basis. Invoices are payable when rendered and shall be considered past due if not paid within 60 days of the invoice date.

3.2.2 Retainers, if applicable to this project, shall be credited to the final invoice.

3.2.3 Inquiries or questions concerning the substance or content of any invoice shall be made to the SI in writing within 10 days of receipt of the invoice. A failure to notify the SI within this period shall constitute an acknowledgement that the service has been provided and payment is due.

**3.3 Late Payments**

3.3.1 A service charge will be charged at the rate of 1.5% (18% true annual rate) per month or the maximum allowable by law on the then outstanding balance of past due accounts. In the event any portion of the account remains unpaid 60 days after billing, the Client shall pay all costs of collection, including reasonable attorney's fees.

3.3.2 In the event that any portion of an account remains unpaid 30 days after billing, the SI may, without waiving any claim or right against the Client, and without liability

whatsoever to the Client, suspend or terminate the performance of all services.

#### **Section 4 - Insurance, Indemnification & Risk Allocation**

##### **4.1 Insurance**

- 4.1.1 The SI shall secure and endeavor to maintain professional liability insurance, commercial general liability insurance, and automobile liability insurance to protect the SI from claims for negligence, bodily injury, death, or property damage which may arise out of the performance of the SI's services under this Agreement. The SI shall, if requested in writing, provide certificates of insurance to the Client.

##### **4.2 Indemnifications**

- 4.2.1 The SI and the Client mutually agree to indemnify and hold each other harmless from any damages and losses arising from their own negligent acts, errors or omissions in their performance under this Agreement, to the extent that each party is responsible for such damages and losses on a comparative basis of fault.

##### **4.3 Risk Allocation**

- 4.3.1 In recognition of the relative risks, rewards and benefits of the Project to both the Client and the SI, the risks have been allocated such that the Client agrees that, to the fullest extent permitted by law, the SI's total liability to the Client for any and all injuries, claims, losses, expenses, damages or claim expenses arising out of this Agreement, from any cause or causes shall not exceed the amount of \$25,000 or the SI's fee, whichever is greater. Such causes include, but are not limited to, the SI's negligent act, errors, omissions, strict liability, breach of contract, breach of express or implied warranty, or any other theory of legal liability. This limitation of liability shall apply to the Structural Engineer of Record and its officers, members, directors, partners, agents, employees, and subconsultants.

#### **Section 5 – Miscellaneous Provisions**

##### **5.1 Termination, Successors and Assigns**

- 5.1.1 This Agreement may be terminated upon 10 days written notice by either party should the other fail to perform its obligations hereunder. In the event of termination, the Client shall pay the SI for all services rendered to the date of termination, all reimbursable expenses, and reasonable termination expenses.
- 5.1.2 The Client and SI each binds themselves, partners, successors, executors, administrators, assigns and legal representative to the other party of this Agreement and to the partners, successors, executors, administrators, assigns, and legal representative of such other party in respect to all covenants, agreements, and obligations of this Agreement.
- 5.1.3 Neither the Client nor the SI shall assign, sublet or transfer any rights under or interest in (including but without limitations, monies that may be due or monies that are due) this Agreement, without the written consent of the other, except as stated in the paragraph above, and except to the extent that the effect of this limitation may be restricted by law. Unless

- 1.3.3 **Contract Documents** are the Engineering and Architectural Drawings and Specifications issued for construction, plus clarification drawings, addenda, approved change orders and contractor designed elements.
- 1.3.4 **Inspection** is visual observations and materials testing to determine that the work is in substantial conformance with the requirements of the Contract Documents.
- 1.3.5 **Reimbursable Expenses** are expenses incurred directly or indirectly in connection with the project such as, but not limited to, transportation, meals or lodging for travel, long distance telephone calls and facsimile transmissions, overnight deliveries, courier services, professional service sales taxes, the cost of reproductions beyond those normally required for coordination and information purposes, and the cost of outside professional services.
- 1.3.6 **Shop Drawings** are those drawings prepared by or on behalf of the Contractor, based upon the Contract Documents that have been reviewed by and bear the review stamp of the appropriate design professionals.

## Section 2 - Services

- 2.1 Services include those designated in the Scope of Special Inspection Services and further detailed below. Some inspection and testing duties may be performed by Testing Laboratories or other professionals.
- 2.2 Unless otherwise stated in the Agreement, the SI will provide the following services, as applicable to the project:
  - 2.2.1 Administrative Services:
    - 2.2.1.1 The SI shall keep records of all inspections related to Exhibit A.
    - 2.2.1.2 The SI shall review inspection and materials testing reports and bring identified discrepancies to the attention of the Building Official, the Prime Design Professional, Structural Engineer of Record, Client and Contractor.
    - 2.2.1.3 The SI shall distribute reports to the Building Official, the Prime Design Professional, Structural Engineer of Record, Client and Contractor. Reports will be submitted as required by the Building Official and the Prime Design Professional.
  - 2.2.2 Certificates of Compliance Review:
    - 2.2.2.1 Certificates of Compliance shall be reviewed for conformance with the standards specified in the Contract Documents. Identified discrepancies shall be brought to the attention of the Building Official, the Prime Design Professional, Structural Engineer of Record, Client and Contractor.
  - 2.2.3 Field Inspection:
    - 2.2.3.1 The SI shall make site visits to inspect work designated in the Scope of Special

## **EXHIBIT B - Terms and Conditions**

This is an exhibit attached to and made part of the Agreement dated December 7, 2011, between

Phoenix Property Management and M<sup>2</sup> Structural Engineering, P.C.  
Client Structural Engineer (Special Inspector, SI)

### **Section 1 - General**

#### **1.1 This Agreement**

- 1.1.1 These Terms and Conditions along with the Letter Agreement and Exhibit A form the Agreement as if they were part of one and the same document.
- 1.1.2 The Letter Agreement and Exhibit A may modify the applicability of these Terms and Conditions. Such limitation shall take precedence over provisions of this Exhibit.

#### **1.2 General obligations of the Special Inspector and the Client**

- 1.2.1 The Special Inspector (SI) shall perform Special Inspection Services as specified in Exhibit A and detailed in these Terms and Conditions. In rendering these services, the SI shall apply the skill and care ordinarily exercised at the same time and locale by structural engineers performing special inspection services.
- 1.2.2 The SI makes no warranties, expressed or implied, under this Agreement or otherwise, in connection with SI's Services.
- 1.2.3 The Client shall provide to the SI a complete set of Documents, signed and sealed by the Licensed Design Professional and approved by the Building Official, and applicable approved shop drawings and related documents, including the construction schedule.
- 1.2.4 The Client shall direct the Contractor to notify the SI of the Contractor's progress so the SI will have at least 24 hours notice prior to performance of work that will require inspection or testing.
- 1.2.5 The Client and SI shall each designate a person to act with authority on their behalf with respect to all aspects of the project.
- 1.2.6 The SI shall notify the Contractor of their presence and responsibilities at the job site.
- 1.2.7 The SI shall submit to the Building Official all required reports.

#### **1.3 Definitions**

- 1.3.1 **Special Inspector (SI)** is the licensed individual or firm that implements the special inspection program for the project.
- 1.3.2 **Testing Laboratory** is an agency or firm qualified to perform field and laboratory tests to determine the characteristics and quality of building materials and workmanship.

1. Review of soils and placement of fill as required by the Statement of Special Inspections.
2. Field inspection of Bolted and/or Welded steel connections.
3. Inspection of welding of reinforcing steel.
4. On site review of fabricator(s) shop(s), if required.
5. Special inspections of cold-formed steel framing.

### **EXHIBIT A – Scope of Special Inspection Services**

This is an exhibit attached to and made part of the Agreement dated December 7, 2011, between

Phoenix Property Management and M<sup>2</sup> Structural Engineering, P.C.  
Client Structural Engineer (Special Inspector, SI)

#### **BASIC SERVICES**

M<sup>2</sup> Structural Engineering, P.C. will provide WORK consisting of:

1. Site visits as required during foundation construction for general conformance with the contract documents and to review concrete placement.
2. Review concrete inspection field reports by the Testing Agency, as necessary, for work performed by ACI or ICC certified inspectors to verify concrete reinforcing work performed was in accordance with contract documents.
3. Review of concrete inspection field reports provided the Testing Agency for work performed by ACI or ICC certified inspectors to verify concrete placement work was in accordance with contract documents.
4. Review of concrete inspection field reports provided by the Testing Agency for work performed by ACI or ICC certified inspectors to verify bolts installed in concrete prior to and during placement. Reports shall indicate conformance of bolt position, embedment and concrete placement and consolidation around bolts.
5. Review of laboratory test reports for concrete test cylinders.
6. Site visits as required during, and one (1) site visit following structural steel erection to verify framing details are in conformance with Construction Documents.
7. Review of submittals required by the Statement of Special Inspections prepared by the Structural Engineer of Record and will include:
  - a. Review of AISC or IAS Certification documentation from Structural Steel fabricator.
  - b. Review of Structural Steel or Metal Building fabricator's "Certificate of Compliance."
  - c. Review of required Welder's Certificate submittals.
  - d. Review of material verification submittals.
8. Review of field reports, by others, for the inspection of field bolted and field welded connections.
9. Preparation and distribution of Non-Conformance reports as required.
10. Preparation and distribution of Interim Special Inspection Reports as required by the Structural Engineer of Record and/or Building Official.
11. Preparation of Final Report of Special Inspections.

#### **EXCLUDED SERVICES**

Services not included above are excluded from the WORK.

#### **SERVICES BY OTHERS**

The following services are to be provided by others or may be provided by M<sup>2</sup> Structural Engineering, P.C. as an additional service. For the purposes of this Agreement, the following are not included as part of M<sup>2</sup> Structural Engineering, P.C.'s WORK:



Reimbursable expenses will be billed at cost plus 10% in addition to the fee.

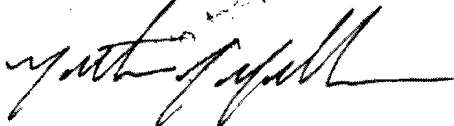
Our current hourly rate for engineering services is \$100.00 per hour. This rate is effective through the last day of December 2012.

Additional Services will be charged at our standard hourly rates or billed at a mutually agreed upon fee.

This Letter of Agreement, and Exhibits A and B hereto, constitute the entire Agreement between the parties. Please examine these documents and sign and return one copy to me.

We are looking forward to working with you on this Project.

Respectfully,  
M<sup>2</sup> Structural Engineering, P.C.



Matthew J. Miller, P.E.  
President

---

Accepted by:

---

(Signature)

---

(Date)

---

(Printed Name)

---

(Title)



23 Thornbury Way  
Windham, ME 04062  
(207) 892-0983

---

## **An Agreement between Client and Structural Engineer for Special Inspection Services**

Based on the Council of American Structural Engineers document 4-2008

December 7, 2011

Phoenix Property Management  
**Attn: Aaron Bateman**  
PO Box 759  
Saco, ME 04072

Reference: New Building for Phoenix Property Management  
Hutchins Drive, Portland, ME  
P2011-34

**RECEIVED**  
DEC - 7 2011  
Dept. of Building Inspections  
City of Portland Maine

Dear: Aaron

We are pleased to propose the following Agreement for providing special inspection services on the above referenced project.

### **DESCRIPTION OF PROJECT**

The Project consists of:

- A 7000 square foot pre-manufactured metal building.
- A 2400 square foot salt storage shed.
- And a 200 foot long (approx..) retaining wall.

### **SCOPE OF SERVICES**

The services to be provided are described in the Scope of Special Inspection Services (Exhibit A) and the Terms and Conditions (Exhibit B). The services are based on Drawings prepared by Ted Greenlaw, CORLE, and Attar Engineering, Inc and the Draft Statement of Special Inspections dated December 6, 2011. It is our understanding that Phoenix Property Management will engage the services of a testing lab to perform field testing and inspection services under a separate contract.

Special Inspections for other disciplines not itemized in Exhibit A may be required, but are not included in this Agreement.

### **COMPENSATION**

Compensation for our services will be a fee calculated on an hourly rate basis per our current hourly rates as indicated below. Fees for outside consultants will be billed at a cost plus 10% in addition to the fee. At this time we estimate the total fee to be between \$1500.00 and \$2000.00. This total fee shall be understood to be an estimate and is based on a construction time of three (3) months. If Basic Services have not been completed within this time, through no fault of the Structural Special Inspector, the amounts of compensation set forth in this Agreement shall be equitably adjusted.

**To:** Aaron Bateman

**Subject:** RE: Foundation Plans & Anchor Bolt Plans / Reactions

Aaron,

Attached, please find a copy of my proposal for Special Inspection Services. You should be getting a separate proposal from S.W. Cole.

Please let me know if you have any questions.

Regards,

Matt

---

No virus found in this message.

Checked by AVG - [www.avg.com](http://www.avg.com)

Version: 2012.0.1873 / Virus Database: 2102/4669 - Release Date: 12/09/11

Thanks Aaron, that's fine for the additional services information.

The only remaining item I have is the Com Check certificates, did I miss seeing these in an email?  
Let me know if this is forthcoming, if not, I could issue the permit with a condition for this.

Jeanie

>>> Aaron Bateman <[abateman@phoenixmanagementcompany.com](mailto:abateman@phoenixmanagementcompany.com)> 12/9/2011 9:00 AM >>>

Hi Jeanie,

Attached is the statement of special Inspections. There is a small scope of services by others that will be performed by SW Cole. As soon as I have their info in hand I will forward it.

Could you send us a quick update of where you see the project permit at this point. We would like to start the foundation next week and are hoping the full permit could be pulled early in the week.

Thanks

Aaron

---

**From:** Jeanie Bourke [<mailto:JMB@portlandmaine.gov>]  
**Sent:** Thursday, December 08, 2011 8:46 AM  
**To:** Aaron Bateman  
**Cc:** Bill Southworth; Josh Cushman  
**Subject:** Re: FW: Foundation Plans & Anchor Bolt Plans / Reactions

Hi Aaron,

In addition to the scope and agreement of special inspections provided, please submit the "Draft (or finalized) Statement of Special Inspections dated December 6, 2011", and the Services By Others as outlined in Exhibit A.

Thanks'

Jeanie

*Jeanie Bourke*  
*CEO/LPI/Plan Reviewer*

**City of Portland**  
**Planning & Urban Development Dept./ Inspections Division**  
**389 Congress St. Rm 315**  
**Portland, ME 04101**  
[jmb@portlandmaine.gov](mailto:jmb@portlandmaine.gov)  
**Direct: (207) 874-8715**  
**Office: (207) 874-8703**

>>> Aaron Bateman <[abateman@phoenixmanagementcompany.com](mailto:abateman@phoenixmanagementcompany.com)> 12/7/2011 4:23 PM >>>

Please find attached a proposal for special inspections.

Thanks

Aaron

---

**From:** Matthew J. Miller, P.E. [<mailto:matt@m2se.com>]  
**Sent:** Wednesday, December 07, 2011 3:32 PM

**From:** Aaron Bateman [mailto:[abateman@phoenixmanagementcompany.com](mailto:abateman@phoenixmanagementcompany.com)]  
**Sent:** Tuesday, December 13, 2011 10:24 AM  
**To:** 'Matthew J. Miller, P.E.'  
**Subject:** FW: FW: Foundation Plans & Anchor Bolt Plans / Reactions

Hi Matt,

Could you please review the e-mail from Jeanie and get back to me.

Thanks  
Aaron

---

**From:** Jeanie Bourke [mailto:[JMB@portlandmaine.gov](mailto:JMB@portlandmaine.gov)]  
**Sent:** Friday, December 09, 2011 2:09 PM  
**To:** Aaron Bateman  
**Cc:** Bill Southworth; Josh Cushman  
**Subject:** RE: FW: Foundation Plans & Anchor Bolt Plans / Reactions

Hi Aaron,

I am ok with issuing the permit with certain conditions, however, after further review of the statement of special inspections, I do have a couple of items. I apologize for not seeing this at first.

1. On page 11 of 12, Seismic Resistance, the engineer will need to justify not requiring inspections for 1.a as this is seismic design D
2. Engineers justification for no Quality Assurance Plan for seismic design D, Sec. 1705.3.1 only exempts design C.
3. A sealed and sign copy of the statement will need to be submitted, this can be a condition.

Thanks,  
Jeanie

>>> Aaron Bateman <[abateman@phoenixmanagementcompany.com](mailto:abateman@phoenixmanagementcompany.com)> 12/9/2011 11:06 AM >>>  
Hi Jeanie,

I have called Josh from Portland Builders asking him to take care of the Com Check certificates. I do not believe these have been provided to date. In the mean time if you could issue the permit with this as a remaining condition that would be great.

I could send someone over today to grab it if that is possible.

Thanks for all the help on this!

Aaron

---

**From:** Jeanie Bourke [mailto:[JMB@portlandmaine.gov](mailto:JMB@portlandmaine.gov)]  
**Sent:** Friday, December 09, 2011 11:02 AM  
**To:** Aaron Bateman  
**Subject:** RE: FW: Foundation Plans & Anchor Bolt Plans / Reactions

**Jeanie Bourke - FW: FW: Foundation Plans & Anchor Bolt Plans / Reactions**

---

**From:** Aaron Bateman <abateman@phoenixmanagementcompany.com>  
**To:** "Jeanie Bourke" <JMB@portlandmaine.gov>  
**Date:** 12/13/2011 1:20 PM  
**Subject:** FW: FW: Foundation Plans & Anchor Bolt Plans / Reactions  
**CC:** "Josh Cushman" <jcushman@portlandbuilders.com>, Bill Southworth <BSout...>  
**Attachments:** Phoenix Seismic.pdf

---

Hi Jeanie,

Below is Matt's response. Please let me know if we need to provide additional information.

Thanks  
Aaron

---

**From:** Matthew J. Miller, P.E. [mailto:matt@m2se.com]  
**Sent:** Tuesday, December 13, 2011 12:14 PM  
**To:** Aaron Bateman  
**Subject:** RE: FW: Foundation Plans & Anchor Bolt Plans / Reactions

Aaron,

Based on my quick investigation, the Mapped Spectral Accelerations should be:

$S_s = 0.322$

$S_1 = 0.078$

Based on these values the Design Spectral Accelerations for Site Class E should be:

$S_{ds} = 0.487$

$S_{d1} = 0.182$

Since this is a category II building these values correspond to a Seismic Design Category C.

A copy of my backup information is attached, where the design values for the 2009 IBC are based on the 2003 NEHRP provisions.

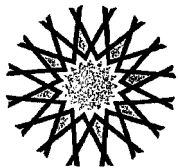
In review of the anchor rod drawings, the SER has the values of  $S_s$  and  $S_1$  listed at 0.41 and 0.1. If we use these higher values, then yes the building would be in seismic design category D.

I would recommend that the EOR from CORLE review the seismic values, and adjust them as necessary.

Please let me know if you have any questions or need any additional information.

Regards,

Matt



# ATTAR

ENGINEERING, INC

CIVIL STRUCTURAL MARINE

Ms. Barbara Barhydt  
Development Review Services Manager  
Planning Division  
389 Congress Street 4th Floor  
Portland, ME 04101  
(207) 874-8699  
Fax: (207) 756-8256  
[bab@portlandmaine.gov](mailto:bab@portlandmaine.gov)

June 17, 2011  
Project No.: C010-11

**Re: Hutchins Drive Maintenance Facility**  
**144 Hutchins Drive**  
**Portland, Maine**

Dear Ms. Barhydt:

On behalf of Phoenix Property Services I have attached a Level II Preliminary Site Plan application for your review and consideration for the referenced project. The project involves a new, 7,000 S.F. commercial maintenance building, A 2,400 SF salt shed, associated parking, access and utility improvements. The project site (Tax Assessor's Map 240, Block A, Lot 4) is located in the Industrial – Moderate Impact (IM) District and is approximately 2.16 acres in area.

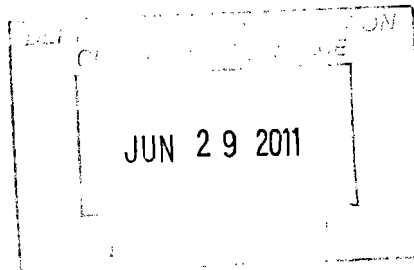
This project requires a Stormwater Permit by Rule from the Maine Department of Environmental Protection, an application for which has been filed and is included in this application.

Please contact me for any additional information or clarifications required.

Sincerely,

Christopher L. Stairs, EIT.  
Project Engineer

cc: Phoenix Property Services



## **Project Summary – Hutchins Drive Maintenance Facility**

The purpose of this project is to obtain permitting for a proposed 7,000 S.F. maintenance facility, a 2,400 S. F. salt shed, associated parking, access and utility improvements.

The proposed development will take place on Tax Assessor's Map 240, Block A, Lot 4. This lot is approximately 2.16 acres in area and is owned by Maine Alpha Floor Sanding. The applicant has a purchase and sale agreement with the owner.

Zoning is Industrial – Moderate Impact (IM). The proposed use will be a combination of repair services and warehousing and distribution. Both of which are permitted in the Industrial District.

Water service will be provided by the Portland Water District through an existing 42" Dia. main within a right of way adjacent to the Hutchins Drive right of way.

Sewer service will be provided by the Portland Sewer Department through connection to an existing 8" Dia. ductile iron pipe located within the Ranger Drive right-of-way

Overhead utilities will need to be extended along Hutchins Drive approximately 145' and across the right of way to the property. From there utilities will be installed underground.

Site lighting will consist of residential type cut-off wall-pack fixtures to be placed at each entry door to the proposed building.

The project will require a Stormwater Permit by Rule from the Maine Department of Environmental Protection (MDEP) Permit (*Chapter 500 – Stormwater Management*). A copy of this application had been included with this application.

Traffic for the majority of the year will be based on an average of 5 employees which will create an average daily trip total of 10 trips. During storm events the owner is projecting to see approximately 30 trucks per day loading salt.

There is a private 30' wide drainage easement running through the site from the westerly property line to the north easterly corner of the property. In addition there is an easement to the city of Portland along the Hutchins Drive right of way.

Landscaping will consist of existing vegetation, turf areas and proposed plant materials.

Commercial solid waste disposal will be provided by a dumpster / compactor located on site.



**PROJECT NAME:** Hutchins Drive Maintenance Facility

**PROPOSED DEVELOPMENT ADDRESS:**

144 Hutchins Drive

**PROJECT DESCRIPTION:**

Proposed 7,000 SF, (65' X 107') industrial building with a separate 40' X 60' salt shed

and associated parking.

**CHART/BLOCK/LOT:** 240-A-4

**PRELIMINARY PLAN**

6/17/11 (date)

**FINAL PLAN**

(date)

**CONTACT INFORMATION:**

<b>Applicant – must be owner, Lessee or Buyer</b> Name: Phoenix Property Services Business Name, if applicable: Address: P.O. Box 759 City/State: Saco, ME Zip Code: 04072	<b>Applicant Contact Information</b> Work # (207) 571-3061 Home# Cell # Fax# e-mail: abateman@phoenixmanagementcompany.com
<b>Owner – (if different from Applicant)</b> Name: Maine Alpha Floor Sanding Address: 23 Rabbit Run City/State: Portland, ME Zip Code: 04102	<b>Owner Contact Information</b> Work # Home# Cell # Fax# e-mail:
<b>Agent/ Representative</b> Name: Attar Engineering, Inc. Kenneth A. Wood, P.E. Address: 1284 State Road City/State: Eliot, ME Zip Code: 03903	<b>Agent/Representative Contact Information</b> Work # (207) 439-6023 Cell # e-mail: ken@attarengineering.com
<b>Billing Information</b> Name: Same as Agent/Representative Address: City/State: Zip Code:	<b>Billing Information</b> Work # Cell # Fax# e-mail:

<b>Engineer</b> Name: Attar Engineering, Inc. Address: Kenneth A. Wood, P.E. 1284 State Road City/State : Eliot Zip Code: 03903	<b>Engineer Contact Information</b> Work # (207) 439-6023 Cell # Fax# (207) 439-2128 e-mail: ken@attarengineering.com
<b>Surveyor</b> Name: Address: City/State : Zip Code:	<b>Surveyor Contact Information</b> Work # Cell # Fax# e-mail:
<b>Architect</b> Name: Address: City/State : Zip Code:	<b>Architect Contact Information</b> Work # Cell # Fax# e-mail:
<b>Attorney</b> Name: Address: City/State : Zip Code:	<b>Attorney Contact Information</b> Work # Cell # Fax# e-mail:

### APPLICATION FEES:

Check all reviews that apply. (Payment may be made by Cash or Check payable to the City of Portland.)

<b>Level II Development (check applicable reviews)</b> <input checked="" type="checkbox"/> Less than 10,000 sq. ft. (\$400.00) <input type="checkbox"/> After-the-fact Review (\$1,000.00 plus applicable application fee)	<b>Fees Paid (office use)</b>  	<b>Other Reviews (check applicable reviews)</b> <input type="checkbox"/> Traffic Movement (\$1,000) <input type="checkbox"/> Stormwater Quality (\$250) <input type="checkbox"/> Section 14-403 Review (\$400 + \$25/lot) # of Lots <input type="text"/> x \$25/lot = <input type="text"/> <input type="checkbox"/> Other _____ <input type="checkbox"/> Change of Use <input type="checkbox"/> Flood Plain <input type="checkbox"/> Shoreland <input type="checkbox"/> Design Review <input type="checkbox"/> Housing Replacement <input type="checkbox"/> Historic Preservation	<b>Fees Paid (office use)</b>  
The City invoices separately for the following: <ul style="list-style-type: none"> <li>• Notices (\$.75 each)</li> <li>• Legal Ad (% of total Ad)</li> <li>• Planning Review (\$40.00 hour)</li> <li>• Legal Review (\$75.00 hour)</li> </ul> Third party review is assessed separately.			
<b>Plan Amendments (check applicable reviews)</b> <input type="checkbox"/> Planning Staff Review (\$250) <input type="checkbox"/> Planning Board Review (\$500)	<b>Fees Paid (office use)</b>  		

## APPLICATION SUBMISSION

As of December 1, 2010, all site plans and written application materials must be uploaded to a website for review. At the time of application, instructions for uploading the plans will be provided to the applicant. One paper set of the plans, written materials and application fee must be submitted to the Planning Division Office to start the review process.

Until December 1, 2010, submissions shall include seven (7) packets with folded plans containing the following materials:

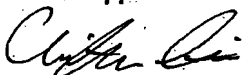
1. Seven (7) full size site plans that must be folded.
2. Seven (7) copies of all written materials or as follows, unless otherwise noted:
  - a. Application form that is completed and signed.
  - b. Cover letter stating the nature of the project.
  - c. All Written Submittals (Sec. 14-525 2. (c), including evidence of right, title and interest.
5. A stamped standard boundary survey prepared by a registered land surveyor at a scale not less than one inch to 100 feet.
6. Plans and maps based upon the boundary survey and containing the information found in the attached sample plan checklist.
7. Copy of the checklist completed for the proposal listing the material contained in the submitted application.
8. One (1) set of plans reduced to 11 x 17.

**Refer to the application checklist for a detailed list of submittal requirements.**

Portland's development review process and requirements are outlined in the Land Use Code (Chapter 14), which includes the Subdivision Ordinance (Section 14-491) and the Site Plan Ordinance (Section 14-521). Portland's Land Use Code is on the City's web site: [www.portlandmaine.gov](http://www.portlandmaine.gov) Copies of the ordinances may be purchased through the Planning Division.

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 Planning Authority and Code Enforcement's authorized representative shall have the authority to enter all areas covered by this permit at any reasonable hour to enforce the provisions of the codes applicable to this permit.

**This application is for a Level II Site Plan review. It is not a permit to begin construction. An approved site plan, a Performance Guarantee, Inspection Fee, Building Permit, and associated fees will be required prior to construction. Other Federal, State or local permits may be required prior to construction, which are the responsibility of the applicant to obtain.**

Signature of Applicant: 	Date: June 17, 2011
--	------------------------

## PROJECT DATA

The following information is required where applicable, in order complete the application

<b>Total Site Area</b>	94,090	sq. ft.
<b>Proposed Total Disturbed Area of the Site</b>	48,023	sq. ft.
<b>(If the proposed disturbance is greater than one acre, then the applicant shall apply for a Maine Construction General Permit (MCGP) with DEP and a Stormwater Management Permit, Chapter 500, with the City of Portland)</b>		
<b>IMPERVIOUS SURFACE AREA</b>		
• Proposed Total Paved Area	21,658	sq. ft.
• Existing Total Impervious Area	0	sq. ft.
• Proposed Total Impervious Area	30,234	sq. ft.
• Proposed Total Impervious Area		sq. ft.
• Proposed Impervious Net Change	30,234	sq. ft.
<b>BUILDING AREA</b>		
• Proposed Building Footprint	9,400	sq. ft.
• Proposed Building Footprint Net change		sq. ft.
• Existing Total Building Floor Area	0	sq. ft.
• Proposed Total Building Floor Area		sq. ft.
• Proposed Building Floor Area Net Change		sq. ft.
• New Building	Yes	(yes or no)
<b>ZONING</b>		
• Existing	IM (Moderate Industrial)	
• Proposed, if applicable	IM (Moderate Industrial)	
<b>LAND USE</b>		
• Existing		
• Proposed		
<b>RESIDENTIAL, IF APPLICABLE</b>		
• Proposed Number of Affordable Housing Units		
• Proposed Number of Residential Units to be Demolished		
• Existing Number of Residential Units		
• Proposed Number of Residential Units		
• Subdivision, Proposed Number of Lots		
<b>PARKING SPACES</b>		
• Existing Number of Parking Spaces	0	
• Proposed Number of Parking Spaces	13	
• Number of Handicapped Parking Spaces	1	
• Proposed Total Parking Spaces	14	
<b>BICYCLE PARKING SPACES</b>		
• Existing Number of Bicycle Parking Spaces		
• Existing Number of Bicycle Parking Spaces		
• Proposed Number of Bicycle Parking Spaces		
• Total Bicycle Parking Spaces		
<b>ESTIMATED COST OF PROJECT</b>	?	

**General Submittal Requirements – Preliminary Plan (Optional)**

**Level II Site Plan**

**Preliminary Plan Phase Check list (if elected by applicant)**

Applicant Checklist	Planner Checklist	Number of Copies	Written Submittal Requirements
<input checked="" type="checkbox"/>	<input type="checkbox"/>	7 (1 paper copy as of Dec. 1)	Completed application form
<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Application fees
<input checked="" type="checkbox"/>	<input type="checkbox"/>	7 (1 paper copy as of Dec. 1)	Written description of project
<input checked="" type="checkbox"/>	<input type="checkbox"/>	7 (1 paper copy as of Dec. 1)	Evidence of right, title and interest.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	7 (1 paper copy as of Dec. 1)	Copies of required State and/or Federal permits.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	7 (1 paper copy as of Dec. 1)	Written assessment of zoning.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	7 (1 paper copy as of Dec. 1)	Written description of existing and proposed easements or other burdens.
<input type="checkbox"/>	<input type="checkbox"/>	7 (1 paper copy as of Dec. 1)	Written requests for waivers from individual site plan and/or technical standards, where applicable.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	7 (1 paper copy as of Dec. 1)	Traffic analysis (may be preliminary, in nature, during the preliminary plan phase).
<input checked="" type="checkbox"/>	<input type="checkbox"/>	7 (1 paper copy as of Dec. 1)	Written summary of significant natural features located on the site.
<input type="checkbox"/>	<input type="checkbox"/>	7 (1 paper copy as of Dec. 1)	Written summary of project's consistency with related city master plans.
<b>Applicant Checklist</b>	<b>Planner Checklist</b>	<b>Number of Copies</b>	<b>Site Plan Submittal Requirements</b>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	7 (1 paper copy as of Dec. 1)	Boundary Survey meeting the requirements of Section 13 of the City of Portland Technical Manual.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	7 (1 paper copy as of Dec. 1)	<b>Preliminary Site Plan including the following: (*information provided may be preliminary in nature during preliminary plan phase):</b>
<input checked="" type="checkbox"/>	<input type="checkbox"/>		▪ Existing and proposed structures with distance from property line (including location of proposed piers, docks or wharves if in Shoreland Zone).
<input checked="" type="checkbox"/>	<input type="checkbox"/>		▪ Location of adjacent streets and intersections and approximate location of structures on abutting properties.
<input checked="" type="checkbox"/>	<input type="checkbox"/>		▪ Proposed site access and circulation.
<input checked="" type="checkbox"/>	<input type="checkbox"/>		▪ Proposed grading and contours.
<input checked="" type="checkbox"/>	<input type="checkbox"/>		▪ Location and dimension of existing and proposed paved areas including all parking areas and vehicle, bicycle and pedestrian access ways.
<input checked="" type="checkbox"/>	<input type="checkbox"/>		▪ Preliminary landscape plan including existing vegetation to be preserved, proposed site landscaping and street trees.
<input checked="" type="checkbox"/>	<input type="checkbox"/>		▪ Existing and proposed utilities (preliminary layout).
<input checked="" type="checkbox"/>	<input type="checkbox"/>		▪ Preliminary infrastructure improvements (e.g. - curb and sidewalk improvements, roadway intersection modifications, utility connections, transit infrastructure, roadway improvements).
<input checked="" type="checkbox"/>	<input type="checkbox"/>		▪ Preliminary stormwater management and erosion control plan.
<input checked="" type="checkbox"/>	<input type="checkbox"/>		▪ Existing significant natural features located on the site (including wetlands, ponds, watercourses, floodplains, significant wildlife habitats and fisheries or other important natural features listed in Section 14-526 (b) 1. of the Land Use Code).



- Proposed alterations to and protection measures for significant natural features located on the site (including wetlands, ponds, watercourses, floodplains, significant wildlife habitats and fisheries or other important natural features listed in Section 14-526 (b)1. of the Land Use Code).



- Existing and proposed easements or public or private rights of way.

### General Submittal Requirements – Final Plan (Required)

#### Level II Site Plan

Final Plan Phase Check list (including items listed above in General Requirements for Preliminary Plan, if applicant did not elect to submit for a preliminary plan review)

Applicant Checklist	Planner Checklist	Number of Copies	Written Submittal Requirement
<input type="checkbox"/>	<input type="checkbox"/>	1	Evidence of financial and technical capacity.
<input type="checkbox"/>	<input type="checkbox"/>	1	Evidence of utilities' capacity to serve the development.
<input type="checkbox"/>	<input type="checkbox"/>	1	Written summary of fire safety (referencing NFPA fire code and Section 3 of the City of Portland Technical Manual).
<input type="checkbox"/>	<input type="checkbox"/>	1	Construction management plan.
<input type="checkbox"/>	<input type="checkbox"/>	1	Traffic Plan (if development will (1) generate 100 or more PCE or (2) generate 25 or more PCE and is located on an arterial, within 1/2 mile of a high crash location, and/or within ¼ mile of an intersection identified in a previous traffic study as a failing intersection).
<input type="checkbox"/>	<input type="checkbox"/>	1	Stormwater management plan.
<input type="checkbox"/>	<input type="checkbox"/>	1	Written summary of solid waste generation and proposed management of solid waste.
<input type="checkbox"/>	<input type="checkbox"/>	1	Written assessment of conformity with applicable design standards.
<input type="checkbox"/>	<input type="checkbox"/>	1	Manufacturer's verification that HVAC and manufacturing equipment meets applicable state and federal emissions requirements.

### Final Plan Phase

<input type="checkbox"/>	<input type="checkbox"/>	7 (1 paper copy as of Dec. 1)	Final Site Plan including the following
<input type="checkbox"/>	<input type="checkbox"/>		Existing and proposed structures on the site with distance from property line (including location of proposed piers, docks or wharves if in Shoreland Zone).
<input type="checkbox"/>	<input type="checkbox"/>		Location of adjacent streets and intersections and approximate location of structures on abutting properties.
<input type="checkbox"/>	<input type="checkbox"/>		Proposed site access and circulation.
<input type="checkbox"/>	<input type="checkbox"/>		Proposed grading and contours.
<input type="checkbox"/>	<input type="checkbox"/>		Location and dimension of existing and proposed paved areas including all parking areas and vehicle, bicycle and pedestrian access ways. Proposed curb lines must be shown.
<input type="checkbox"/>	<input type="checkbox"/>		Proposed loading and servicing areas, including applicable turning templates for delivery vehicles
<input type="checkbox"/>	<input type="checkbox"/>		Proposed snow storage areas or snow removal plan.
<input type="checkbox"/>	<input type="checkbox"/>		Proposed trash and recycling facilities.
<input type="checkbox"/>	<input type="checkbox"/>		Landscape plan including existing vegetation to be preserved, proposed site landscaping and street trees.
<input type="checkbox"/>	<input type="checkbox"/>		Existing and proposed utilities.

<input type="checkbox"/>	<input type="checkbox"/>	<ul style="list-style-type: none"> <li>▪ Location and details of proposed infrastructure improvements (e.g. - curb and sidewalk improvements, roadway intersection modifications, utility connections, public transit infrastructure, roadway improvements).</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	<ul style="list-style-type: none"> <li>▪ Proposed septic system, if not connecting to municipal sewer. (Portland Waste Water Application included in this application)</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	<ul style="list-style-type: none"> <li>▪ Proposed finish floor elevation (FFE).</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	<ul style="list-style-type: none"> <li>▪ Exterior building elevation(s) (showing all 4 sides).</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	<ul style="list-style-type: none"> <li>▪ Proposed stormwater management and erosion controls.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	<ul style="list-style-type: none"> <li>▪ Exterior lighting plan, including street lighting improvements..</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	<ul style="list-style-type: none"> <li>▪ Proposed signage.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	<ul style="list-style-type: none"> <li>▪ Identification of existing significant natural features located on the site (including wetlands, ponds, watercourses, floodplains, significant wildlife habitats and fisheries or other important natural features listed in Section 14-526 (b)1. of the Land Use Code). Wetlands must be delineated.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	<ul style="list-style-type: none"> <li>▪ Proposed alterations to and protection measures for of existing significant natural features located on the site (including wetlands, ponds, watercourses, floodplains, significant wildlife habitats and fisheries or other important natural features listed in Section 14-526 (b)1. of the Land Use Code).</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	<ul style="list-style-type: none"> <li>▪ Total area and limits of proposed land disturbance.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	<ul style="list-style-type: none"> <li>▪ Soil type and location of test pits and borings.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	<ul style="list-style-type: none"> <li>▪ Details of proposed pier rehabilitation (Shoreland areas only).</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	<ul style="list-style-type: none"> <li>▪ Existing and proposed easements or public or private rights of way.</li> </ul>



**PORTLAND FIRE DEPARTMENT  
SITE REVIEW  
FIRE DEPARTMENT CHECKLIST**



A separate drawing[s] shall be provided to the Portland Fire Department for all site plan reviews.

1. Name, address, telephone number of applicant.
2. Name address, telephone number of architect
3. Proposed uses of any structures [NFPA and IBC classification]
4. Square footage of all structures [total and per story]
5. Elevation of all structures
6. Proposed fire protection of all structures
  - **As of September 16, 2010 all new construction of one and two family homes are required to be sprinkled in compliance with NFPA 13D. This is required by City Code. (NFPA 101 2009 ed.)**
7. Hydrant locations
8. Water main[s] size and location
9. Access to all structures [min. 2 sides]
10. A code summary shall be included referencing NFPA 1 and all fire department. Technical standards.

Some structures may require Fire flows using annex H of NFPA 1



# CITY OF PORTLAND WASTEWATER CAPACITY APPLICATION

Department of Public Services,  
55 Portland Street,  
Portland, Maine 04101-2991



Mr. Frank J. Brancely,  
Senior Engineering Technician,  
Phone #: (207) 874-8832,  
Fax #: (207) 874-8852,  
E-mail: fjb@portlandmaine.gov

Date: 6/17/11

## 1. Please, Submit Utility, Site, and Locust Plans.

Site Address: 144 Hutchins Drive, Portland, ME

(Regarding addressing, please contact Leslie Kaynor, either at 756-8346,  
or at LMK@portlandmaine.gov)

Chart Block Lot Number: 240, A, 4

Proposed Use:

Previous Use: Undeveloped

Existing Sanitary Flows: 0 GPD

Existing Process Flows: 0 GPD

Description and location of City sewer, at proposed

building sewer lateral connection:

Existing sewer manhole located on Hutchins Drive

Site Category	Commercial	<input checked="" type="checkbox"/>
	Industrial (complete part 4 below)	<input type="checkbox"/>
	Governmental	<input type="checkbox"/>
	Residential	<input type="checkbox"/>
	Other (specify)	<input type="checkbox"/>

Clearly, indicate the proposed connection, on the submitted plans.

## 2. Please, Submit Domestic Wastewater Design Flow Calculations.

Estimated Domestic Wastewater Flow Generated: 75 GPD

Peaking Factor/ Peak Times:

Specify the source of design guidelines: (i.e. ☒ "Handbook of Subsurface Wastewater Disposal in Maine,"  
"Plumbers and Pipe Fitters Calculation Manual," ☐ Portland Water District Records, ☐ Other (specify)

**Note: Please submit calculations showing the derivation of your design flows, either on the following page, in the space provided, or attached, as a separate sheet.**

## 3. Please, Submit Contact Information.

Owner/Developer Name: Phoenix Management Company

Owner/Developer Address: P.O. Box 759, Saco, ME 04072

Phone: (207) 571-3061

Fax:

E-mail: abateman@phoenixmanagementcompany.cc

Engineering Consultant Name:

Attar Engineering, Inc.

Engineering Consultant Address:

1284 State Road, Eliot, ME 03903

Phone: (207) 439-6023

Fax: (207) 439-2128

E-mail: ken@attarengineering.com

City Planner's Name:

Barbara Barhydt

Phone: (207) 874-8699

**Note: Consultants and Developers should allow +/- 15 days, for capacity status, prior to Planning Board Review.**

## 4. Please, Submit Industrial Process Wastewater Flow Calculations

Estimated Industrial Process Wastewater Flows Generated: GPD

Do you currently hold Federal or State discharge permits?

Yes ☐ No ☐

Is the process wastewater termed categorical under CFR 40?

Yes ☐ No ☐

OSHA Standard Industrial Code (SIC):

(<http://www.osha.gov/oshstats/sicser.html>)

Peaking Factor/Peak Process Times:

## PHOENIX PROPERTY SERVICES

P.O. BOX 759  
SACO, MAINE 04072-5118

June 16, 2011

City of Portland  
Planning and Urban Development Department  
Planning Department  
Fourth Floor, City Hall  
389 Congress Street  
Portland, Maine 04101

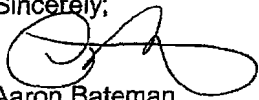
RE: 144 Hutchins Drive

Dear Planning Staff:

Kenneth A. Wood, P.E. and Christopher L Stairs, E.I.T. of Attar Engineering, Inc. will be acting as our agents for the Level II applications for the referenced project.

Please contact me for any additional information.

Sincerely;

A handwritten signature in black ink, appearing to be 'A. Bateman', with a large, stylized loop at the end.

Aaron Bateman  
President

## PURCHASE AND SALE AGREEMENT - LAND ONLY

Offer Date April 27, 2011

Effective Date is defined in Paragraph 20 of this Agreement

1. PARTIES: This Agreement is made between Phoenix Property Services,  
("Buyer") and  
Maine Alpha Floor Sanding,  
("Seller").

2. DESCRIPTION: Subject to the terms and conditions hereinafter set forth, Seller agrees to sell and Buyer agrees to buy (☒ all  
☐ part of; If "part of" see para. 22 for explanation) the property situated in municipality of Portland  
County of Cumberland, State of Maine, located at 144 Hutchins Dr and  
described in deed(s) recorded at said County's Registry of Deeds Book(s) 17009, Page(s) 186.

3. PURCHASE PRICE: For such Deed and conveyance Buyer agrees to pay the total purchase price of \$ 170,000.00  
Buyer ☐ has delivered; or ☒ will deliver to the Agency within 7 days of the Offer Date, a deposit of earnest money in  
the amount \$ 10,000.00. If said deposit is to be delivered after the submission of this offer and is not delivered by the  
above deadline, this offer shall be void and any attempted acceptance of this offer in reliance on the deposit being delivered will not  
result in a binding contract. Buyer agrees that an additional deposit of earnest money in the amount of \$ n/a will be  
delivered n/a. Failure by Buyer to deliver this additional deposit in  
compliance with the above terms shall constitute a default under this Agreement. The remainder of the purchase price shall be paid by  
wire, certified, cashier's or trust account check upon delivery of the Deed.

This Purchase and Sale Agreement is subject to the following conditions:

4. EARNEST MONEY/ACCEPTANCE: CBRE/The Boulos Company ("Agency") shall hold  
said earnest money and act as escrow agent until closing; this offer shall be valid until April 28, 2011 (date)  
5.00 AM ☒ PM; and, in the event of non-acceptance, this earnest money shall be returned promptly  
to Buyer. In the event that the Agency is made a party to any lawsuit by virtue of acting as escrow agent, Agency shall be entitled to  
recover reasonable attorney's fees and costs which shall be assessed as court costs in favor of the prevailing party.

5. TITLE AND CLOSING: A deed, conveying good and merchantable title in accordance with the Standards of Title adopted by  
the Maine Bar Association shall be delivered to Buyer and this transaction shall be closed and Buyer shall pay the balance due and  
execute all necessary papers on October 31, 2011 (closing date) or before, if agreed in writing by both parties. If  
Seller is unable to convey in accordance with the provisions of this paragraph, then Seller shall have a reasonable time period, not to  
exceed 30 calendar days, from the time Seller is notified of the defect, unless otherwise agreed to in writing by both Buyer and Seller,  
to remedy the title. Seller hereby agrees to make a good-faith effort to cure any title defect during such period. If, at the later of the  
closing date set forth above or the expiration of such reasonable time period, Seller is unable to remedy the title, Buyer may close and  
accept the deed with the title defect or this Agreement shall become null and void in which case the parties shall be relieved of any  
further obligations hereunder and any earnest money shall be returned to the Buyer.

6. DEED: The property shall be conveyed by a Quit-Claim with Covenant deed, and shall be free and clear of all  
encumbrances except covenants, conditions, easements and restrictions of record which do not materially and adversely affect the  
continued current use of the property.

7. POSSESSION: Possession of premises shall be given to Buyer immediately at closing unless otherwise agreed in writing.

8. RISK OF LOSS: Until the closing, the risk of loss or damage to said premises by fire or otherwise, is assumed by Seller. Buyer  
shall have the right to view the property within 24 hours prior to closing for the purpose of determining that the premises are in  
substantially the same condition as on the date of this Agreement.

9. PRORATIONS: The following items, where applicable, shall be prorated as of the date of closing: rent, association fees, (other)  
no others. Real estate taxes shall be prorated as of the date of closing (based on municipality's  
fiscal year). Seller is responsible for any unpaid taxes for prior years. If the amount of said taxes is not known at the time of closing,  
they shall be apportioned on the basis of the taxes assessed for the preceding year with a reapportionment as soon as the new tax rate  
and valuation can be ascertained, which latter provision shall survive closing. Buyer and Seller will each pay their transfer tax as  
required by State of Maine.

January 2011

Page 1 of 4 - P&S-LO

Buyer(s) Initials

Seller(s) Initials

RE/MAX By The Bay 970 Baxter Blvd., Suite 201 Portland, ME 04103  
Phone: 207 553 7357

Fax: 866.552.7511

Derrick Buckspan

Produced with ZipForm® by zipLogix 18070 Fifteen Mile Road, Fraser, Michigan 48028 [www.ziplogix.com](http://www.ziplogix.com)

144 Hutchins Drive

10. DUE DILIGENCE: Buyer is encouraged to seek information from professionals regarding any specific issue or concern.

Neither Seller nor Licensee makes any warranties regarding the condition, permitted use or value of Sellers' real property. This Agreement is subject to the following contingencies, with results being satisfactory to Buyer:

CONTINGENCY	YES	NO	DAYS FOR COMPLETION	OBTAINED BY	TO BE PAID FOR BY
1. SURVEY Purpose: _____	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>5/30/11</u>	<u>buyer</u>	<u>buyer</u>
2. SOILS TEST Purpose: _____	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>5/30/11</u>	<u>buyer</u>	<u>buyer</u>
3. SEPTIC SYSTEM DESIGN Purpose: _____	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____	_____	_____
4. LOCAL PERMITS Purpose: _____	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>9/30/11</u>	<u>buyer</u>	<u>buyer</u>
5. HAZARDOUS WASTE REPORTS Purpose: _____	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____	_____	_____
6. UTILITIES Purpose: _____	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>5/30/11</u>	<u>buyer</u>	<u>buyer</u>
7. WATER Purpose: _____	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>5/30/11</u>	<u>buyer</u>	<u>buyer</u>
8. SUB-DIVISION APPROVAL Purpose: _____	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____	_____	_____
9. DEP/LURC APPROVALS Purpose: _____	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>9/30/11</u>	<u>buyer</u>	<u>buyer</u>
10. ZONING VARIANCE Purpose: _____	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____	_____	_____
11. HABITAT REVIEW/WATERFOWL Purpose: _____	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____	_____	_____
12. MDOT DRIVEWAY/ENTRANCE PERMIT Purpose: _____	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>9/30/11</u>	<u>buyer</u>	<u>buyer</u>
13. DEED RESTRICTION Purpose: _____	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____	_____	_____
14. TAX EXEMPT STATUS Purpose: _____	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____	_____	_____
15. OTHER Purpose: <u>Building permits and approvals</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>9/30/11</u>	<u>buyer</u>	<u>buyer</u>

Further specifications regarding any of the above: All buyer due diligence to be completed by 5/30/11. Receipt of permits and approvals to be completed by 9/30/11. Buyer agrees to apply for permits and approvals within fifteen (15) days of the effective date of this contract.

Unless otherwise specified above, all of the above will be obtained and paid for by Buyer. If the result of any investigation or other condition specified herein is unsatisfactory to Buyer, Buyer will declare the Agreement null and void by notifying Seller in writing within the specified number of days, and any earnest money shall be returned to Buyer. If the result of any investigation or other condition specified herein is unsatisfactory to Buyer, and Buyer wishes to pursue remedies other than voiding the Agreement, Buyer must do so to full resolution within the time period set forth above; otherwise this contingency is waived. If Buyer does not notify Seller that an investigation is unsatisfactory within the time period set forth above, this contingency is waived by Buyer. In the absence of inspection(s) mentioned above, Buyer is relying completely upon Buyer's own opinion as to the condition of the property.

*MP*

21. CONFIDENTIALITY: Buyer and Seller authorize the disclosure of the information herein to the real estate licensees, attorneys, lenders, appraisers, inspectors, investigators and others involved in the transaction necessary for the purpose of closing this transaction. Buyer and Seller authorize the lender and/or closing agent preparing the entire closing statement to release a copy of the closing statement to the parties and their licensees prior to, at and after the closing.

22. OTHER CONDITIONS: Buyer will provide financing commitment subject to permits and approvals by 6/30/11. Seller agrees to compensate or cause RE/MAX By The Bay to be compensated 4% of contract price at closing.

23. GENERAL PROVISIONS:

- A copy of this Agreement is to be received by all parties and, by signature, receipt of a copy is hereby acknowledged. If not fully understood, contact an attorney. This is a Maine contract and shall be construed according to the laws of Maine.
- Seller acknowledges that State of Maine law requires buyers of property owned by non-resident sellers to withhold a prepayment of capital gains tax unless a waiver has been obtained by Seller from the State of Maine Revenue Services.
- Buyer and Seller acknowledge that under Maine law payment of property taxes is the legal responsibility of the person who owns the property on April 1, even if the property is sold before payment is due. If any part of the taxes is not paid when due, the lien will be filed in the name of the owner as of April 1 which could have a negative impact on their credit rating. Buyer and Seller shall agree at closing on their respective obligations regarding actual payment of taxes after closing. Buyer and Seller should make sure they understand their obligations agreed to at closing and what may happen if taxes are not paid as agreed.
- Buyer acknowledges that Maine law requires continuing interest in the property and any back up offers to be communicated by the listing agent to the Seller.

24. ADDENDA: ☐ Yes Explain: \_\_\_\_\_ ☒ No

Buyer's Mailing address is \_\_\_\_\_

BUYER

DATE

BUYER

DATE

Phoenix Property Services.

Seller accepts the offer and agrees to deliver the above-described property at the price and upon the terms and conditions set forth and agrees to pay agency a commission for services as specified in the listing agreement.

Seller's Mailing address is \_\_\_\_\_

SELLER Maine Alpha Floor Sanding

DATE

SELLER

DATE

COUNTER-OFFER

Seller agrees to sell on the terms and conditions as detailed herein with the following changes and/or conditions:

The parties acknowledge that until signed by Buyer, Seller's signature constitutes only an offer to sell on the above terms and the offer will expire unless accepted by Buyer's signature with communication of such signature to Seller by (date) \_\_\_\_\_ (time) \_\_\_\_\_ AM \_\_\_\_\_ PM.

SELLER

DATE

SELLER

DATE

The Buyer hereby accepts the counter offer set forth above.

BUYER

DATE

BUYER

DATE

EXTENSION:

The time for the performance of this Agreement is extended until \_\_\_\_\_

DATE

SELLER

DATE

SELLER

DATE

BUYER

DATE

BUYER

DATE



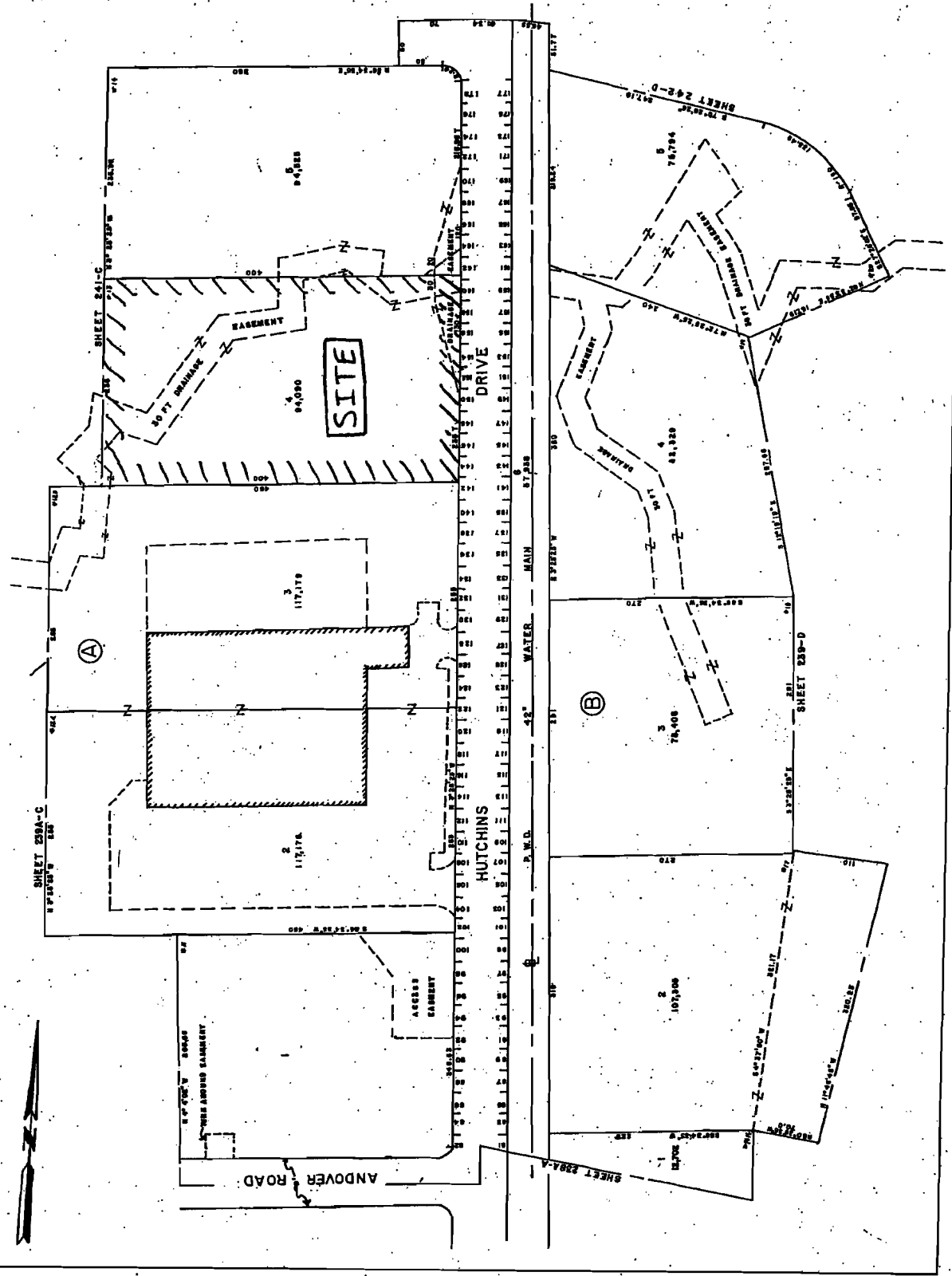
Maine Association of REALTORS®/Copyright © 2011  
All Rights Reserved. Revised January 2011

Page 4 of 4 - P&S-LO

Produced with ZipForm® by zipLogix 18070 Fifteen Mile Road, Fraser, Michigan 48026 www.zipLogix.com



144 Hutchins Drive





**ATTAR**  
ENGINEERING, INC

CIVIL • STRUCTURAL • MARINE  
1284 STATE ROAD, ELIOT ME 03903

**LOCATION MAP**  
HUTCHINS DRIVE  
USGS 7.5 MINUTE SERIES  
PORTLAND WEST QUADRANGLE  
SCALE: 1 : 2,000



insurance agent or call the National Flood Insurance Pro



APPROXIMATE SCALE



**NATIONAL FLOOD INSURANCE PROGRAM**

**FIRM  
FLOOD INSURANCE RATE MAP**

CITY OF  
PORTLAND,  
MAINE  
CUMBERLAND COUNTY

PANEL 12 OF 17  
(SEE MAP INDEX FOR PANELS NOT PRINTED)

COMMUNITY-PANEL NUMBER  
230051 0012 C

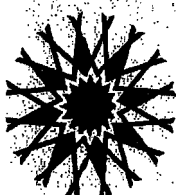
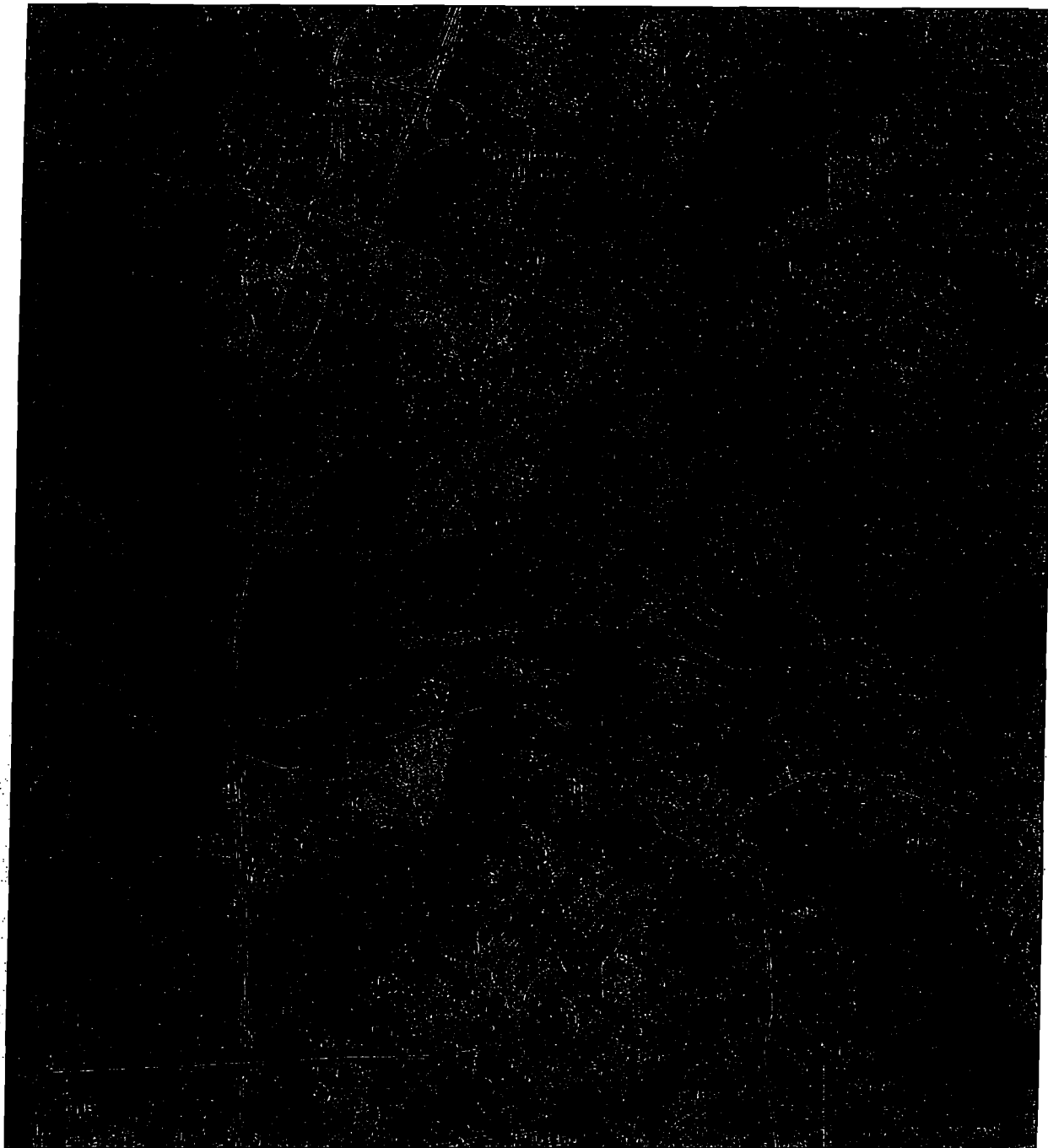
MAP REVISED:  
DECEMBER 8, 1998



Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at [www.msc.fema.gov](http://www.msc.fema.gov)





**ATTAR**  
ENGINEERING, INC

CIVIL • STRUCTURAL • MARINE  
1284 STATE ROAD, ELIOT ME 03903

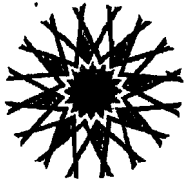
**SOILS MAP**  
144 HUTCHINS DRIVE  
SOIL SURVEY OF  
CUMBERLAND COUNTY  
SCALE: 1 : 2,000

## List of Abutters

Project: Hutchins Drive – Portland, ME C010-11

Location: Map 240 Lot A004 001

Map	Parcel	Property Owner	Address
240	B004 001, B005 001, A005 001	Spring Harbor Hospital	216 Vaughan St. Ground Floor Portland, ME 04102
240	B003 001	Trophy Building LLC	299 Forest Avenue Portland, ME 04101
240	A002 001	UNUM Life Insurance Company of America	2211 Congress Street Portland, ME 04102
		Town of Westbrook	
006	000 017	Spring Harbor Hospital	123 Andover Road Westbrook, ME 04092



# ATTAR

ENGINEERING, INC

CIVIL • STRUCTURAL • MARINE

Marybeth Richardson  
Maine Department of Environmental Protection  
312 Canco Road  
Portland, Maine 04103

June 17, 2011  
Project No.: C010-11

**RE: 144 Hutchins Drive – Portland, Maine  
Stormwater Permit-By-Rule (PBR) Application**

Dear Ms. Richardson:

I have attached a stormwater PBR application for the referenced project. Included in the application is a Letter of Agent Authorization and a plan set for your review. The project involves a new, 7,000 S.F. maintenance building, a 2,400 SF salt shed and associated parking, access and utility improvements. The project site (Tax Map 240, Block A, Lot 4) is located in the Industrial Moderate (IM) District and is approximately 2.16 acres in area.

The existing site is completely wooded with a wetland running through the property from the westerly property line the north east corner. The completed development will create approximately 30,234 S.F. of impervious area.

Please contact me for any additional information. Thank you for your assistance.

Sincerely;

Christopher L. Stairs, EIT.

cc: Phoenix Management Services

C010-11stpbrcover

**STORMWATER PBR APPLICATION FORM**  
**PLEASE TYPE OR PRINT IN INK ONLY**

Page 1 03/06

1. Name of Applicant: <b>Aaron Bateman/Pheonix Property Services</b>		5. Name of Agent: (if applicable) <b>Ken Wood/ Christopher Stairs</b>	
2. Applicant's Mailing Address: <b>PO Box 759 Saco, ME 04072-5118</b>		6. Agent's Mailing Address: <b>Attar Engineering, Inc. 1284 State Road Eliot, ME 03903</b>	
3. Applicant's Daytime Phone #: <b>(207) 571-3061</b>		7. Agent's Daytime Phone #: <b>(207) 439-6023</b>	
4. Applicant's Fax #: (if available) <b>---</b>		8. Agent's Fax # and email address: <b>(207) 439-2128</b>	
9. Location of Project: (Road, Street, Rt.#) <b>144 Hutchins Drive</b>		10. Town: <b>Portland</b>	
		11. County: <b>Cumberland</b>	
12. Is this PBR for renewal of an individual stormwater permit? If yes, skip to Block 27 and signature page. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
13. Type of Direct Watershed: (Check all that apply)		14. Amount of Developed Area:	
<input type="checkbox"/> Lake not most at risk <input type="checkbox"/> Lake most at risk <input type="checkbox"/> Lake most at risk, severely blooming <input checked="" type="checkbox"/> River, stream or brook <input type="checkbox"/> Urban impaired stream <input type="checkbox"/> Freshwater wetland <input type="checkbox"/> Coastal wetland <input type="checkbox"/> Wellhead of public water supply		<input type="checkbox"/> Total # of _____ acres OR <input checked="" type="checkbox"/> Total # of <u>48,023</u> square feet	
		15. Amount of Impervious Area:	
		<input type="checkbox"/> Total # of _____ acres OR <input checked="" type="checkbox"/> Total # of <u>30,234</u> square feet	
16. Creating a common plan of development or sale?		17. Name of waterbody(ies) to which the project site drains:	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<b>Stroudwater River</b>	
18. Brief Project Description: <b>See attached sheet.</b>			
19. Size of Lot or Parcel:		20. UTM Locations: (if known)	
<input type="checkbox"/> Total of _____ square feet OR <input checked="" type="checkbox"/> Total of <u>2.16</u> acres		UTM Northing:  UTM Easting:	
21. Deed Reference Numbers:		22. Map and Lot Numbers:	
Book#: 144 Page#: 73		Map #: 240 Lot #: 4	
23. Project started prior to application?		24. Resubmission of Application?	
<input type="checkbox"/> Yes → <input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
25. Written Notice of Violation?		If yes, name of DEP enforcement staff involved:	
<input type="checkbox"/> Yes → <input checked="" type="checkbox"/> No			
26. Detailed Directions to the Project Site: (Attach separate sheet if necessary) <b>See attached sheet.</b>			
27. SUBMISSIONS ▼			
<input type="checkbox"/> This form (signed and dated) <input type="checkbox"/> Dept. of Inland Fisheries and Wildlife Approval (if in Essential Habitat) <input type="checkbox"/> Photos of Area <input type="checkbox"/> ESC Plan <input type="checkbox"/> Location Map <input type="checkbox"/> Site Plan <input type="checkbox"/> Fee			
<b>For Renewal of an individual Stormwater permit only:</b> <input type="checkbox"/> This form (signed and dated) <input type="checkbox"/> Copy of original stormwater permit <input type="checkbox"/> Fee			

**CERTIFICATIONS AND SIGNATURES LOCATED ON PAGE 2**

OFFICE USE ONLY	Ck. #	Date	Staff	Staff	After Photos
PBR #	FP		Acc. Date	Def. Date	

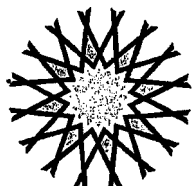
CONTRACTOR SIGNATURE

With this Stormwater PBR notification form and my signature below, I am filing notice of my intent to carry out work which meets the requirements of the Maine Construction General Permit. I have read and will comply with all of the MCGP standards. In addition, I will file a Notice of Termination (NOT) within 20 days of project completion.

If this form is not being signed by the landowner or lessee of the property, attach documentation showing authorization to sign.

Signed \_\_\_\_\_ Date: \_\_\_\_\_





# ATTAR

ENGINEERING, INC

CIVIL • STRUCTURAL • MARINE

## STORMWATER MANAGEMENT PLAN

144 HUTCHINS DRIVE

PORTLAND, MAINE

Project No.: C010-11

June 17, 2011

### ♦ Scope

This stormwater management plan has been prepared for 144 Hutchins Drive, a proposed commercial facility located in Portland, Maine. The developer, Phoenix Property Services proposes to construct the facility on an approximately 2.16 acre lot. The facility will consist of a 7,000 S.F. single-level building, a 2,400 S.F. salt shed and associated parking, driveway and utility improvements to support the development.

The project will create approximately 1.1 acres of developed area and approximately 0.70 acres of impervious area. Therefore the project must receive a Maine Department of Environmental Protection (MDEP) Chapter 500 (Stormwater Management) permit and must meet the Basic Standards, described in the MDEP publication, *Chapter 500, Stormwater Management*. The project must also meet the stormwater management requirements outlined in the Portland, Maine Zoning Ordinance.

### ♦ Site and Watershed Description

The site is located on Hutchins Drive in Portland, Maine. A 7½ minute series U.S.G.S. map of the project area is attached; the parcel is located near the end of Hutchins Drive on the left side of the road. The site is undeveloped, containing both wooded uplands and wooded wetlands.

The site is located in the Stroudwater River Watershed (source: USGS 7 ½ minute series, Portland West). The site drains to a wetland/ stream winding through the site from west to east. This stream outlets to the Stroudwater River within a half mile.

The topography of the site is rolling to steep (existing grades from 0% to 25%). On-site elevations (datum is NGVD1929) range from approximately 36' where the wetland exits the property to approximately 67' at the southerly edge of the developed area.

No areas of the site are located within a 100-Year Special Flood Hazard Area as determined by the Federal Emergency Management Agency (FEMA).

Proposed cuts and fills are mostly between 0 and 6 feet, with a maximum cut of 8 feet in some areas.

### ♦ Soils/Hydrologic Soil Groups

Soil types and their respective Hydrologic Soil Groups (HSG) were determined from the Soil Survey of Cumberland County, Maine. On site soils consist of Elmwood fine sandy loam (EmB, HSG C) and Sulphhemists (Frequently Flooded).

♦ **Methodology**

The stormwater quantity analysis was conducted using the HydroCAD Stormwater Modeling System by Applied Microcomputer Systems. The analysis was accomplished to determine the "Existing Condition" and "Developed Condition" stormwater flows. Both cases were analyzed for the 2, 10, and 25 year, 24-hour frequency storm events. The Existing Condition analyzes the site as it currently exists and the Developed Condition models the site with the proposed improvements described above.

♦ **Water Quantity Analysis and Results**

Existing Condition

The site was modeled as one subcatchment (SC) for the Existing Condition analysis. Analysis Point (AP) 1 was selected at the edge of the onsite wetland. Analysis Point 1 is located downstream of the proposed developed areas and provide a convenient location to compare Existing Condition flows to Developed Condition flows.

Developed Condition

The Developed Condition analysis consists of three subcatchments. Other features such as ponds and reaches were added to account for on-site routing, detention and treatment of stormwater. All Developed Condition flows are routed to AP 1 which is described above.

Tables showing Existing Condition peak flows, Developed Condition peak flows and the change in peak flow from Existing Condition to Developed Condition are presented on a separate page.

♦ **Summary**

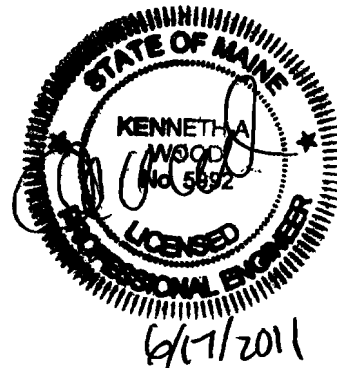
The use of detention ponds to attenuate peak flows results in no significant increase in peak runoff quantity from the proposed 144 Hutchins Drive. No adverse effects are anticipated on any downstream properties or drainage structures for the analyzed storm events.

Sincerely;



Christopher L. Stairs, E.I.T.

C010-11SW

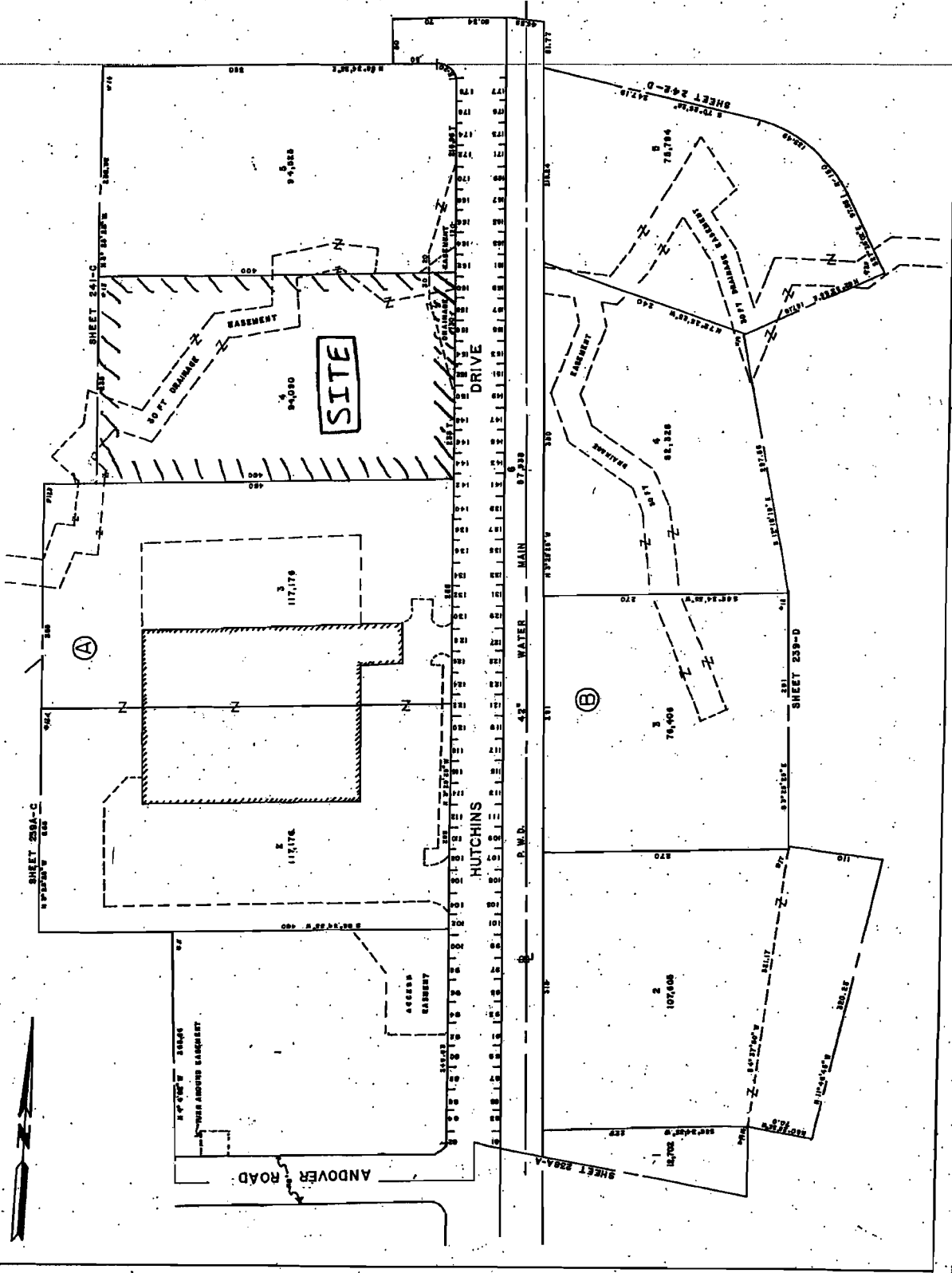




**TABLE 1 - QUANTITY CALCULATIONS**                      **STORM EVENT**

		<u>2</u>	<u>10</u>	<u>25</u>	
<b>EXT</b>	<b>AP 1</b>	1.23	3.05	4.06	(cfs)
<b>DEV</b>	<b>AP1</b>	<u>1.13</u>	<u>2.26</u>	<u>2.86</u>	(cfs)
<b>CHANGE</b>	<b>AP1</b>	-0.10	-0.79	-1.20	(cfs)

No. 240



CITY OF PORTLAND  
ANNOVER PLAN  
SCALE 1"=50'

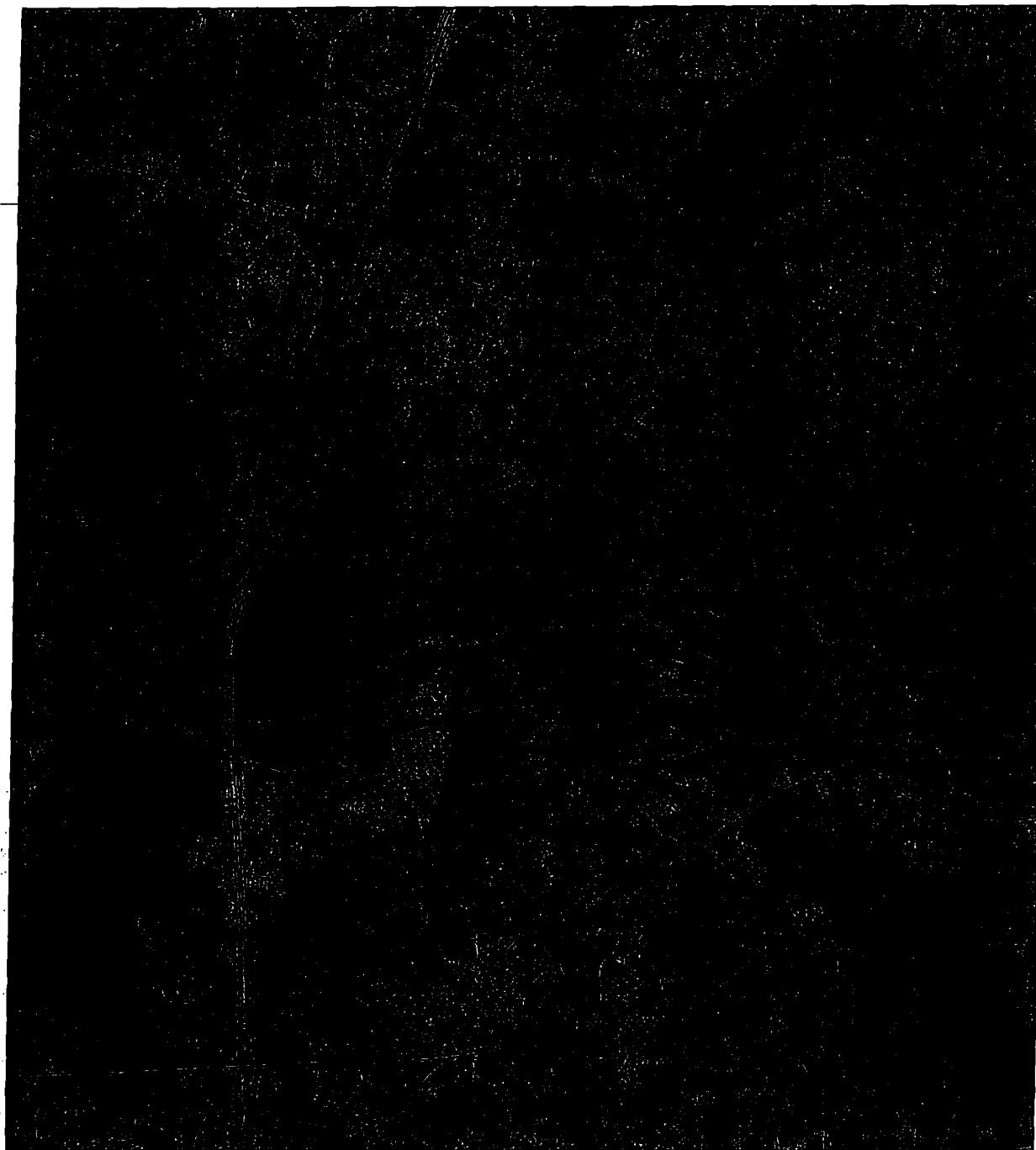
REV 07/78



**ATTAR**  
ENGINEERING, INC

CIVIL • STRUCTURAL • MARINE  
1284 STATE ROAD, ELIOT ME 03903

**LOCATION MAP**  
HUTCHINS DRIVE  
USGS 7.5 MINUTE SERIES  
PORTLAND WEST QUADRANGLE  
SCALE: 1 : 2,000



**ATTAR**  
ENGINEERING, INC

CIVIL • STRUCTURAL • MARINE  
1284 STATE ROAD, ELIOT ME 03903

## SOILS MAP

144 HUTCHINS DRIVE  
SOIL SURVEY OF  
CUMBERLAND COUNTY  
SCALE: 1" = 2,000'

insurance agent or call the National Flood Insurance Pro



APPROXIMATE SCALE

400 0

NATIONAL FLOOD INSURANCE PROGRAM

**FIRM**  
FLOOD INSURANCE RATE MAP

CITY OF  
PORTLAND,  
MAINE  
CUMBERLAND COUNTY

PANEL 12 OF 17  
(SEE MAP INDEX FOR PANELS NOT PRINTED)

COMMUNITY-PANEL NUMBER  
230051 0012 C

MAP REVISED:  
DECEMBER 6, 1998



Federal Emergency Management Agency

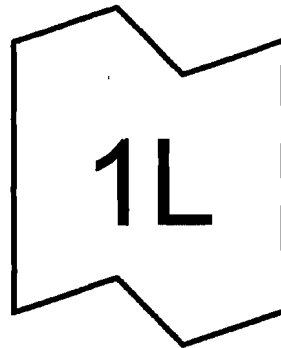
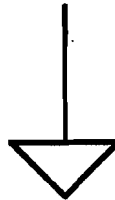
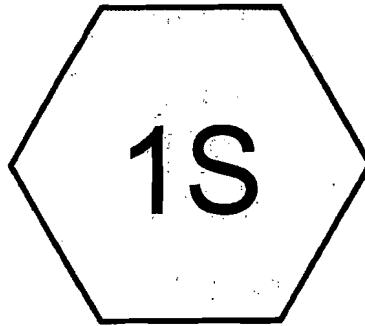
CONGRESS

TURNPIKE

95

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at [www.msc.fema.gov](http://www.msc.fema.gov)

## EXISTING CONDITION CALCULATIONS



**HUTCHINS EXT***Type III 24-hr 2-YEAR Rainfall=3.00"*

Prepared by Attar Engineering, Inc.

Printed 5/20/2011

HydroCAD® 9.00 s/n 01988 © 2009 HydroCAD Software Solutions LLC

Page 1

Time span=5.00-36.00 hrs, dt=0.05 hrs, 621 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

**Subcatchment 1S:**

Runoff Area=69,240 sf 0.00% Impervious Runoff Depth=0.86"

Flow Length=271' Tc=10.9 min CN=73 Runoff=1.23 cfs 0.114 af

**Link 1L:**

Inflow=1.23 cfs 0.114 af

Primary=1.23 cfs 0.114 af

**Total Runoff Area = 1.590 ac Runoff Volume = 0.114 af Average Runoff Depth = 0.86"****100.00% Pervious = 1.590 ac 0.00% Impervious = 0.000 ac**



**HUTCHINS EXT***Type III 24-hr 25-YEAR Rainfall=5.40"*

Prepared by Attar Engineering, Inc.

Printed 5/20/2011

HydroCAD® 9.00 s/n 01988 © 2009 HydroCAD Software Solutions LLC

Page 3

Time span=5.00-36.00 hrs, dt=0.05 hrs, 621 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

**Subcatchment 1S:**Runoff Area=69,240 sf 0.00% Impervious Runoff Depth=2.60"  
Flow Length=271' Tc=10.9 min CN=73 Runoff=4.06 cfs 0.344 af**Link 1L:**Inflow=4.06 cfs 0.344 af  
Primary=4.06 cfs 0.344 af**Total Runoff Area = 1.590 ac Runoff Volume = 0.344 af Average Runoff Depth = 2.60"**  
**100.00% Pervious = 1.590 ac 0.00% Impervious = 0.000 ac**

**HUTCHINS EXT**

Prepared by Attar Engineering, Inc.

HydroCAD® 9.00 s/n 01988 © 2009 HydroCAD Software Solutions LLC

Type III 24-hr 25-YEAR Rainfall=5.40"

Printed 5/20/2011

Page 1

**Summary for Subcatchment 1S:**

Runoff = 4.06 cfs @ 12.16 hrs, Volume= 0.344 af, Depth= 2.60"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-36.00 hrs, dt= 0.05 hrs  
Type III 24-hr 25-YEAR Rainfall=5.40"

Area (sf)	CN	Description
69,240	73	Woods, Fair, HSG C
69,240		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.2	50	0.0600	0.10		<b>Sheet Flow,</b> Woods: Light underbrush n= 0.400 P2= 3.00"
2.6	195	0.0620	1.24		<b>Shallow Concentrated Flow,</b> Woodland Kv= 5.0 fps
0.1	26	0.3500	2.96		<b>Shallow Concentrated Flow,</b> Woodland Kv= 5.0 fps
10.9	271	Total			

**Summary for Link 1L:**

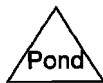
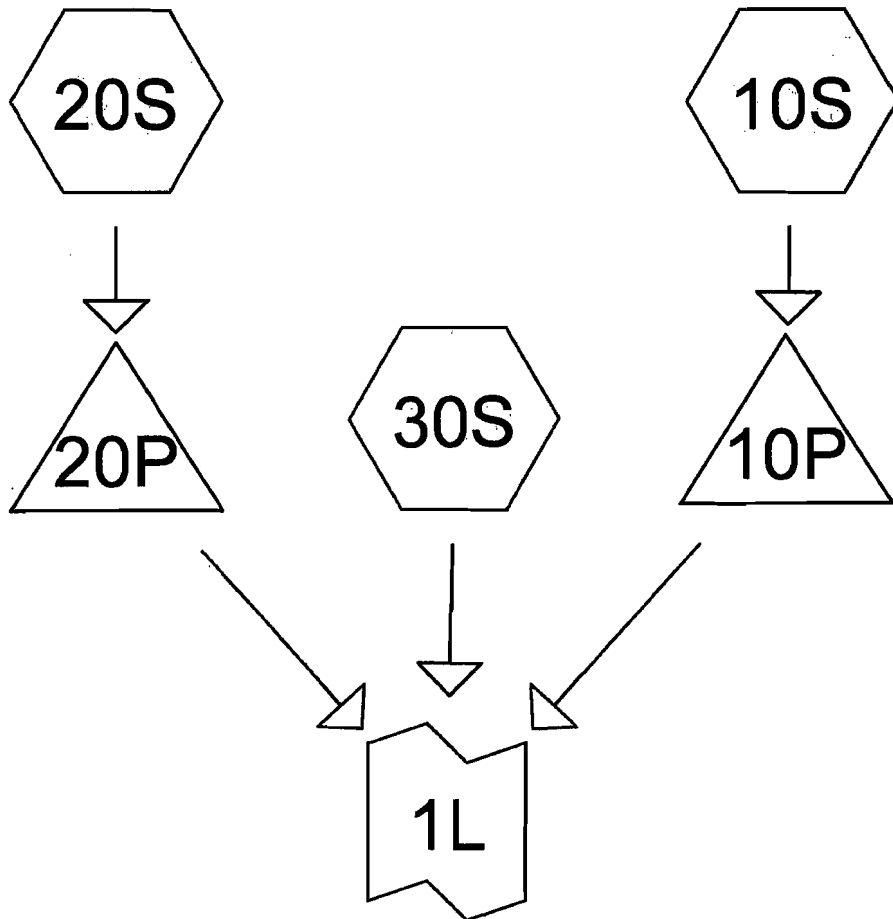
Inflow Area = 1.590 ac, 0.00% Impervious, Inflow Depth = 2.60" for 25-YEAR event

Inflow = 4.06 cfs @ 12.16 hrs, Volume= 0.344 af

Primary = 4.06 cfs @ 12.16 hrs, Volume= 0.344 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-36.00 hrs, dt= 0.05 hrs

# DEVELOPED CONDITION CALCULATIONS



**Drainage Diagram for HUTCHINS DEV**  
Prepared by Attar Engineering, Inc., Printed 6/15/2011  
HydroCAD® 9.00 s/n 01988 © 2009 HydroCAD Software Solutions LLC

**HUTCHINS DEV**

Prepared by Attar Engineering, Inc.

HydroCAD® 9.00 s/n 01988 © 2009 HydroCAD Software Solutions LLC

Type III 24-hr 2-YEAR Rainfall=3.00"

Printed 6/15/2011

Page 1

Time span=5.00-36.00 hrs, dt=0.05 hrs, 621 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

**Subcatchment 10S:**Runoff Area=20,065 sf 74.67% Impervious Runoff Depth=2.16"  
Flow Length=147' Tc=1.6 min CN=92 Runoff=1.24 cfs 0.083 af**Subcatchment 20S:**Runoff Area=20,414 sf 73.39% Impervious Runoff Depth=2.16"  
Flow Length=236' Tc=1.7 min CN=92 Runoff=1.27 cfs 0.084 af**Subcatchment 30S:**Runoff Area=29,119 sf 2.21% Impervious Runoff Depth=0.91"  
Flow Length=174' Tc=1.2 min CN=74 Runoff=0.73 cfs 0.051 af**Pond 10P:**Peak Elev=54.13' Storage=1,290 cf Inflow=1.24 cfs 0.083 af  
Primary=0.24 cfs 0.083 af Secondary=0.00 cfs 0.000 af Outflow=0.24 cfs 0.083 af**Pond 20P:**Peak Elev=50.25' Storage=1,277 cf Inflow=1.27 cfs 0.084 af  
Primary=0.25 cfs 0.084 af Secondary=0.00 cfs 0.000 af Outflow=0.25 cfs 0.084 af**Link 1L:**Inflow=1.13 cfs 0.218 af  
Primary=1.13 cfs 0.218 af**Total Runoff Area = 1.598 ac Runoff Volume = 0.218 af Average Runoff Depth = 1.64"**  
**56.02% Pervious = 0.895 ac 43.98% Impervious = 0.703 ac**

**HUTCHINS DEV**

Prepared by Attar Engineering, Inc.

HydroCAD® 9.00 s/n 01988 © 2009 HydroCAD Software Solutions LLC

Type III 24-hr 10-YEAR Rainfall=4.60"

Printed 6/15/2011

Page 2

Time span=5.00-36.00 hrs, dt=0.05 hrs, 621 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

**Subcatchment 10S:**Runoff Area=20,065 sf 74.67% Impervious Runoff Depth>3.69"  
Flow Length=147' Tc=1.6 min CN=92 Runoff=2.07 cfs 0.142 af**Subcatchment 20S:**Runoff Area=20,414 sf 73.39% Impervious Runoff Depth>3.69"  
Flow Length=236' Tc=1.7 min CN=92 Runoff=2.11 cfs 0.144 af**Subcatchment 30S:**Runoff Area=29,119 sf 2.21% Impervious Runoff Depth=2.05"  
Flow Length=174' Tc=1.2 min CN=74 Runoff=1.75 cfs 0.114 af**Pond 10P:**Peak Elev=54.84' Storage=2,358 cf Inflow=2.07 cfs 0.142 af  
Primary=0.31 cfs 0.142 af Secondary=0.00 cfs 0.000 af Outflow=0.31 cfs 0.142 af**Pond 20P:**Peak Elev=51.05' Storage=2,346 cf Inflow=2.11 cfs 0.144 af  
Primary=0.33 cfs 0.144 af Secondary=0.00 cfs 0.000 af Outflow=0.33 cfs 0.144 af**Link 1L:**Inflow=2.26 cfs 0.400 af  
Primary=2.26 cfs 0.400 af**Total Runoff Area = 1.598 ac Runoff Volume = 0.400 af Average Runoff Depth = 3.00"**  
**56.02% Pervious = 0.895 ac 43.98% Impervious = 0.703 ac**

**HUTCHINS DEV**

Prepared by Attar Engineering, Inc.

HydroCAD® 9.00 s/n 01988 © 2009 HydroCAD Software Solutions LLC

Type III 24-hr 25-YEAR Rainfall=5.40"

Printed 6/15/2011

Page 3

Time span=5.00-36.00 hrs, dt=0.05 hrs, 621 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

**Subcatchment 10S:**Runoff Area=20,065 sf 74.67% Impervious Runoff Depth>4.46"  
Flow Length=147' Tc=1.6 min CN=92 Runoff=2.48 cfs 0.171 af**Subcatchment 20S:**Runoff Area=20,414 sf 73.39% Impervious Runoff Depth>4.46"  
Flow Length=236' Tc=1.7 min CN=92 Runoff=2.52 cfs 0.174 af**Subcatchment 30S:**Runoff Area=29,119 sf 2.21% Impervious Runoff Depth=2.69"  
Flow Length=174' Tc=1.2 min CN=74 Runoff=2.32 cfs 0.150 af**Pond 10P:**Peak Elev=55.17' Storage=2,928 cf Inflow=2.48 cfs 0.171 af  
Primary=0.34 cfs 0.171 af Secondary=0.00 cfs 0.000 af Outflow=0.34 cfs 0.171 af**Pond 20P:**Peak Elev=51.42' Storage=2,918 cf Inflow=2.52 cfs 0.174 af  
Primary=0.36 cfs 0.174 af Secondary=0.00 cfs 0.000 af Outflow=0.36 cfs 0.174 af**Link 1L:**Inflow=2.86 cfs 0.495 af  
Primary=2.86 cfs 0.495 af**Total Runoff Area = 1.598 ac Runoff Volume = 0.495 af Average Runoff Depth = 3.72"**  
**56.02% Pervious = 0.895 ac 43.98% Impervious = 0.703 ac**

**HUTCHINS DEV**

Prepared by Attar Engineering, Inc.

HydroCAD® 9.00 s/n 01988 © 2009 HydroCAD Software Solutions LLC

Type III 24-hr 25-YEAR Rainfall=5.40"

Printed 6/15/2011

Page 1

**Summary for Subcatchment 10S:**

Runoff = 2.48 cfs @ 12.03 hrs, Volume= 0.171 af, Depth&gt; 4.46"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-36.00 hrs, dt= 0.05 hrs  
Type III 24-hr 25-YEAR Rainfall=5.40"

Area (sf)	CN	Description
14,982	98	Paved parking, HSG C
5,083	74	>75% Grass cover, Good, HSG C
20,065	92	Weighted Average
5,083		25.33% Pervious Area
14,982		74.67% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.4	21	0.0200	0.97		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 3.00"
0.8	59	0.0040	1.28		<b>Shallow Concentrated Flow,</b> Paved Kv= 20.3 fps
0.4	67	0.0300	2.60		<b>Shallow Concentrated Flow,</b> Grassed Waterway Kv= 15.0 fps
1.6	147	Total			

**Summary for Subcatchment 20S:**

Runoff = 2.52 cfs @ 12.03 hrs, Volume= 0.174 af, Depth&gt; 4.46"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-36.00 hrs, dt= 0.05 hrs  
Type III 24-hr 25-YEAR Rainfall=5.40"

Area (sf)	CN	Description
14,982	98	Paved parking, HSG C
5,432	74	>75% Grass cover, Good, HSG C
20,414	92	Weighted Average
5,432		26.61% Pervious Area
14,982		73.39% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	50	0.0150	1.03		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 3.00"
0.8	138	0.0190	2.80		<b>Shallow Concentrated Flow,</b> Paved Kv= 20.3 fps
0.1	48	0.0200	6.42	5.04	<b>Pipe Channel,</b> 12.0" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.013 Corrugated PE, smooth interior
1.7	236	Total			



**HUTCHINS DEV**

Prepared by Attar Engineering, Inc.

HydroCAD® 9.00 s/n 01988 © 2009 HydroCAD Software Solutions LLC

Type III 24-hr 25-YEAR Rainfall=5.40"

Printed 6/15/2011

Page 2

**Summary for Subcatchment 30S:**

Runoff = 2.32 cfs @ 12.02 hrs, Volume= 0.150 af, Depth= 2.69"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-36.00 hrs, dt= 0.05 hrs  
Type III 24-hr 25-YEAR Rainfall=5.40"

Area (sf)	CN	Description
644	98	Paved parking, HSG C
9,558	74	>75% Grass cover, Good, HSG C
18,917	73	Woods, Fair, HSG C
29,119	74	Weighted Average
28,475		97.79% Pervious Area
644		2.21% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.4	23	0.0200	0.99		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 3.00"
0.7	125	0.0440	3.15		<b>Shallow Concentrated Flow,</b> Grassed Waterway Kv= 15.0 fps
0.1	26	0.4600	3.39		<b>Shallow Concentrated Flow,</b> Woodland Kv= 5.0 fps
1.2	174	Total			

**Summary for Pond 10P:**

Inflow Area = 0.461 ac, 74.67% Impervious, Inflow Depth > 4.46" for 25-YEAR event  
 Inflow = 2.48 cfs @ 12.03 hrs, Volume= 0.171 af  
 Outflow = 0.34 cfs @ 12.51 hrs, Volume= 0.171 af, Atten= 86%, Lag= 29.0 min  
 Primary = 0.34 cfs @ 12.51 hrs, Volume= 0.171 af  
 Secondary = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 5.00-36.00 hrs, dt= 0.05 hrs  
 Peak Elev= 55.17' @ 12.51 hrs Surf.Area= 1,793 sf Storage= 2,928 cf

Plug-Flow detention time= 95.0 min calculated for 0.171 af (100% of inflow)  
 Center-of-Mass det. time= 94.6 min ( 872.7 - 778.2 )

Volume	Invert	Avail.Storage	Storage Description
#1	53.00'	4,555 cf	<b>Custom Stage Data (Prismatic)</b> Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
53.00	924	0	0
54.00	1,302	1,113	1,113
56.00	2,140	3,442	4,555

**HUTCHINS DEV**

Prepared by Attar Engineering, Inc.

HydroCAD® 9.00 s/n 01988 © 2009 HydroCAD Software Solutions LLC

Type III 24-hr 25-YEAR Rainfall=5.40"

Printed 6/15/2011

Page 3

Device	Routing	Invert	Outlet Devices
#1	Primary	53.00'	<b>12.0" Round Culvert</b> L= 44.0' CPP, square edge headwall, Ke= 0.500 Outlet Invert= 49.00' S= 0.0909 ' S Cc= 0.900 n= 0.013 Corrugated PE, smooth interior
#2	Device 1	53.00'	<b>3.0" Vert. Orifice/Grate</b> C= 0.600
#3	Secondary	55.20'	<b>15.0' long x 10.0' breadth Broad-Crested Rectangular Weir</b> Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.49 2.56 2.70 2.69 2.68 2.69 2.67 2.64

**Primary OutFlow** Max=0.34 cfs @ 12.51 hrs HW=55.17' (Free Discharge)

1=Culvert (Passes 0.34 cfs of 4.89 cfs potential flow)

2=Orifice/Grate (Orifice Controls 0.34 cfs @ 6.89 fps)

**Secondary OutFlow** Max=0.00 cfs @ 5.00 hrs HW=53.00' (Free Discharge)

3=Broad-Crested Rectangular Weir ( Controls 0.00 cfs)

**Summary for Pond 20P:**

Inflow Area = 0.469 ac, 73.39% Impervious, Inflow Depth > 4.46" for 25-YEAR event  
 Inflow = 2.52 cfs @ 12.03 hrs, Volume= 0.174 af  
 Outflow = 0.36 cfs @ 12.50 hrs, Volume= 0.174 af, Atten= 86%, Lag= 28.5 min  
 Primary = 0.36 cfs @ 12.50 hrs, Volume= 0.174 af  
 Secondary = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 5.00-36.00 hrs, dt= 0.05 hrs

Peak Elev= 51.42' @ 12.50 hrs Surf.Area= 1,585 sf Storage= 2,918 cf

Plug-Flow detention time= 88.3 min calculated for 0.174 af (100% of inflow)

Center-of-Mass det. time= 87.9 min ( 866.1 - 778.2 )

Volume	Invert	Avail.Storage	Storage Description
#1	49.00'	3,888 cf	<b>Custom Stage Data (Prismatic)</b> Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
49.00	848	0	0
50.00	1,129	989	989
52.00	1,770	2,899	3,888

Device	Routing	Invert	Outlet Devices
#1	Primary	45.00'	<b>12.0" Round Culvert</b> L= 34.0' CPP, square edge headwall, Ke= 0.500 Outlet Invert= 44.00' S= 0.0294 ' S Cc= 0.900 n= 0.013 Corrugated PE, smooth interior
#2	Device 1	49.00'	<b>3.0" Vert. Orifice/Grate</b> C= 0.600
#3	Secondary	51.50'	<b>15.0' long x 10.0' breadth Broad-Crested Rectangular Weir</b> Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.49 2.56 2.70 2.69 2.68 2.69 2.67 2.64

**HUTCHINS DEV**

Prepared by Attar Engineering, Inc.

HydroCAD® 9.00 s/n 01988 © 2009 HydroCAD Software Solutions LLC

Type III 24-hr 25-YEAR Rainfall=5.40"

Printed 6/15/2011

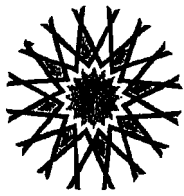
Page 4

**Primary OutFlow** Max=0.36 cfs @ 12.50 hrs HW=51.42' (Free Discharge)└─**1=Culvert** (Passes 0.36 cfs of 9.20 cfs potential flow)└─**2=Orifice/Grate** (Orifice Controls 0.36 cfs @ 7.30 fps)**Secondary OutFlow** Max=0.00 cfs @ 5.00 hrs HW=49.00' (Free Discharge)└─**3=Broad-Crested Rectangular Weir** ( Controls 0.00 cfs)**Summary for Link 1L:**

Inflow Area = 1.598 ac, 43.98% Impervious, Inflow Depth > 3.72" for 25-YEAR event  
Inflow = 2.86 cfs @ 12.03 hrs, Volume= 0.495 af  
Primary = 2.86 cfs @ 12.03 hrs, Volume= 0.495 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-36.00 hrs, dt= 0.05 hrs

## **OPERATION AND MAINTENANCE PROGRAM**



# ATTAR

ENGINEERING, INC

CIVIL • STRUCTURAL • MARINE

**144 HUTCHINS DRIVE  
PORTLAND, ME**

## **OPERATION AND MAINTENANCE PROGRAM STORMWATER MANAGEMENT BMP's**

This project contains specific Best Management Practices (BMP's) for the conveyance, storage, and treatment of stormwater and the prevention of erosion. These BMP's consist of swales, underdrained soil filter ponds, catchbasins and culverts. All components should be inspected quarterly, and after every significant rain event of 1" in any 24-hour period. Additional inspection intervals are specified for certain BMP's, specifically, underdrained soil filters.

The party responsible for implementing this Operation and Maintenance Program (O & M Program) shall be the property owner.

### **Swales**

All swales should be inspected for accumulation of debris, which could adversely affect the function of this BMP. These areas should also be maintained to have gradual slopes, which prevent channeling of stormwater and erosion of the bottom and sides of the swales.

### **Catch Basins**

All catch basin grates, sumps, and inlets/outlets should be inspected for accumulation of debris, which could adversely affect the function of this BMP. Additionally, the basin inverts shall be inspected for clogging and material soundness. Sumps shall always be clear to a depth of 1' below the outlet invert. Inlet structures shall be inspected and cleaned of debris at least twice annually, once in the spring following snow melt and once in the autumn after leaf fall.

### **Culverts**

Culvert inlets and outlets should be inspected for debris, which could clog the BMP. Additionally, the placement of rip-rap should be inspected to ensure that all areas remain smooth and no areas exhibit erosion in the form of rills or gullies.

### **Snow Removal**

Snow shall be stockpiled only in the approved snow storage areas. Plowing of snow into wetland areas or detention ponds shall be avoided. Additionally, a mostly sand mix (reduced salt) shall be applied during winter months to prevent excessive salt from leaching into wetland areas. Excess sand shall be removed from the storage areas, all paved surfaces and adjacent areas each spring.

**Stormwater Detention Areas**

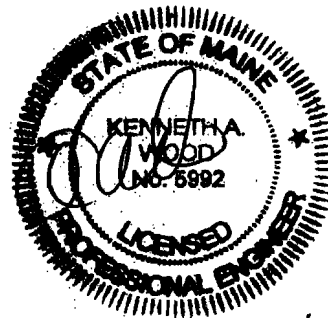
The Stormwater Detention Areas, including ponds and subsurface storage systems shall be inspected to ensure that there is no channeling of stormwater and that no debris accumulates within the detention areas. The inlets and outlets shall be inspected for erosion and any evidence of debris that could clog the culverts. Outlet structures and trash screens shall also be cleaned of debris. Emergency spillways and level spreaders shall be inspected for any evidence of rilling and channeling and shall be maintained to promote a level, sheet-flow discharge. Eroded areas and associated vegetation shall be repaired and maintained, if necessary.

**Seeding, Fertilizing and Mulching**

All exposed soil materials and stockpiles must be either temporarily or permanently seeded, fertilized and mulched in accordance with plan specifications. This is one of the most important features of the Erosion Control Plan, which will provide both temporary and permanent stabilization. Eroded or damaged lawn areas must be repaired until a 75% effective growth of vegetation is established and permanently maintained.

**Record Keeping**

Routine maintenance and inspections will be accomplished by the property owner [Phoenix Management, PO Box 759, Saco, ME 04072]. All inspections accomplished in accordance with this program shall be documented on the attached Inspection & Maintenance Log. Copies of the Log shall be kept by the property owner, and be made available to the Department (Maine Department of Environmental Protection), upon request.



*April 2011*

# INSPECTION & MAINTENANCE LOG

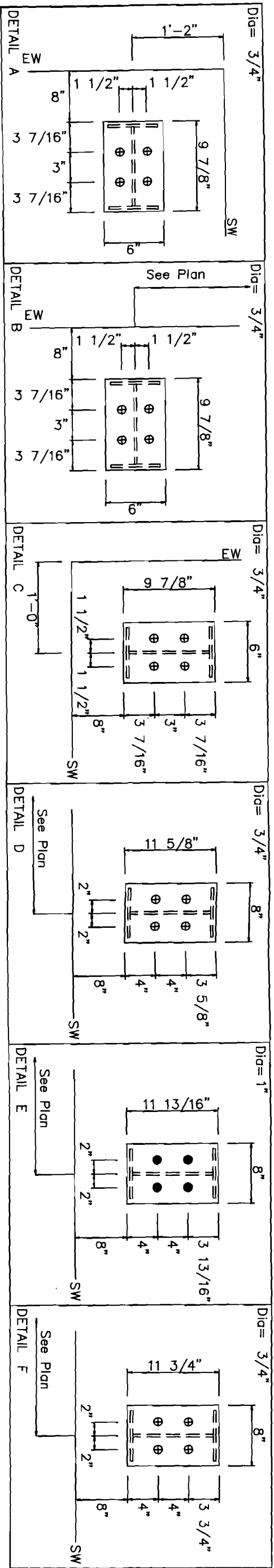
## 144 HUTCHINS DRIVE

[illegible]

1. Purpose is the reason for the inspection. For example; "quarterly" or "after a significant rain event."
2. Maintenance Done means any maintenance required as a result of the inspection, such as trash removal or re-seeding of areas.







RECEIVED  
DEC 13  
Dept. of Building Inspections  
City of Portland Maine

ADDITIONAL LOADING INFORMATION


Mezzanine Loads:  
Dead Load \_\_\_\_\_ PSF  
Collateral Load \_\_\_\_\_ PSF  
Live Load \_\_\_\_\_ PSF

Crane Information:  
Crane Type \_\_\_\_\_  
CMAA Service Class \_\_\_\_\_  
Crane capacity = \_\_\_\_\_ Kips  
Bridge Weight = \_\_\_\_\_ Kips  
Hoist/Trolley Weight = \_\_\_\_\_ Kips  
Wheel Spacing = \_\_\_\_\_ Ft.

Additional Loads:  
1. \_\_\_\_\_  
2. \_\_\_\_\_  
3. \_\_\_\_\_

PHOENIX PROPERTY MANAGEMENT

DRAWING STATUS		REVISION HISTORY		
<input type="checkbox"/>	FOR APPROVAL: THESE DRAWINGS, BEING FOR APPROVAL, ARE BY DEFINITION NOT FINAL, AND ARE FOR CONCEPTUAL REPRESENTATION ONLY. THEIR PURPOSE IS TO CONFIRM PROPER INTERPRETATION OF THE PROJECT DOCUMENTS. ONLY DRAWINGS ISSUED "FOR CONSTRUCTION" CAN BE CONSIDERED AS COMPLETE.	REV.	DESCRIPTION	DATE
		01	SEE CO-01	12/8/11
<input type="checkbox"/>	FOR PERMIT: THESE DRAWINGS, BEING FOR PERMIT, ARE BY DEFINITION NOT FINAL. ONLY DRAWINGS ISSUED "FOR CONSTRUCTION" CAN BE CONSIDERED AS COMPLETE.	02	SEE CO-02	12/14/11
<input checked="" type="checkbox"/>	FOR CONSTRUCTION: FINAL DRAWINGS.			



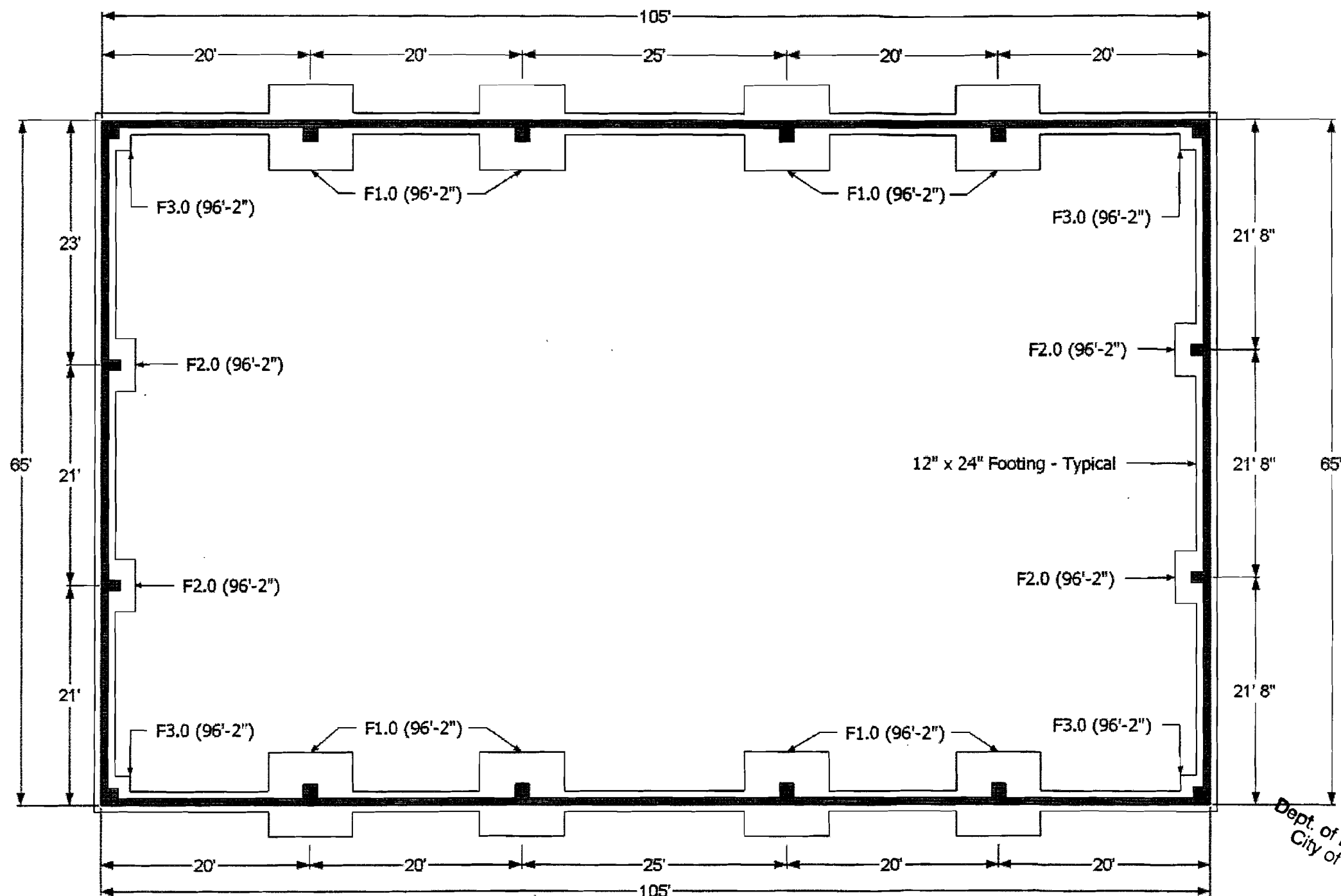
114 ROSEMONT LANE, IMLER, PA 16655 (814)276-9611

PHOENIX PROPERTY MANAGEMENT

65'-0" x 105'-0" x 17'-0"

DATE: 12/6/11      REVISION: 02

ENG: JJT      DWN: DJH      APPD: JJT



**FOOTING SCHEDULE**

MARK	WIDTH	LENGTH	THICKNESS	REINFORCING STEEL
F1.0	8'-0"	8'-0"	1'-0"	11- # 5 BARS ONE WAY 7- # 5 BARS ONE WAY
F2.0	5'-0"	4'-0"	1'-0"	5- # 5 BARS EACH WAY
F3.0	3'-6"	3'-6"	1'-0"	3- # 5 BARS EACH WAY

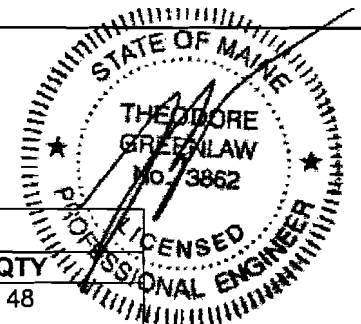
**ANCHOR BOLT SCHEDULE**

ANCHOR BOLT DESCRIPTION	PROJECTION	QTY
¾" A307 18" THREADED ROD W/ ONE WELDED NUT – INCLUDE 2 EXTRA NUTS AND 1 WASHER PER ANCHOR BOLT	2 ½"	48
1" A307 18" THREADED ROD W/ ONE WELDED NUT – INCLUDE 2 EXTRA NUTS AND 1 WASHER PER ANCHOR BOLT	2 ½"	16

**GENERAL NOTES:**

- 1.) (0'-0") INDICATES TOP OF FOOTING ELEVATION.
- 2.) FOUNDATION PLAN IS BASED ON A PRE-ENGINEERED BUILDING SYSTEM MANUFACTURED BY CORLE BUILDING SYSTEMS (F.O. #16838).
- 3.) FOUNDATION DESIGN IS BASED ON A SOIL BEARING CAPACITY OF 2,500 PSF. IF ANY UNSUITABLE MATERIALS ARE ENCOUNTERED, NOTIFY STRUCTURAL FOUNDATION DESIGN ENGINEER. NO CONCRETE WILL BE PLACED IN FROZEN OR WATER FILLED TRENCHES.
- 4.) FOOTING & PIER CONCRETE SHALL BE 3,000 PSI, ¾" DESIGN MIX (MIN) WITH MRWR.
- 5.) PLACE VERTICAL CONTROL JOINTS AT EDGE OF EACH PILASTER.
- 6.) ALL REINFORCING STEEL SHALL CONFORM TO ASTM A-615, MIN 60 KSI (DEFORMED).
- 7.) ALL ANCHOR BOLTS TO BE SET PER BUILDING MANUFACTURERS TOLERANCES. ANCHOR BOLTS TO BE DOUBLE NUTTED TO STEEL TEMPLATES FURNISHED BY CORLE BUILDING SYSTEMS, AND SECURELY PLACED AND LEVELED WITHIN FORMWORK PRIOR TO PLACEMENT OF CONCRETE.
- 8.) AVOID SPRAYING OF FORM RELEASE OIL ON ANY REINFORCING STEEL.
- 9.) VAPOR BARRIER AND INSULATION NOT SHOWN IS TO BE DETERMINED BY GENERAL CONTRACTOR.
- 10.) ALL INSPECTIONS AND TESTING ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR OR OWNER.

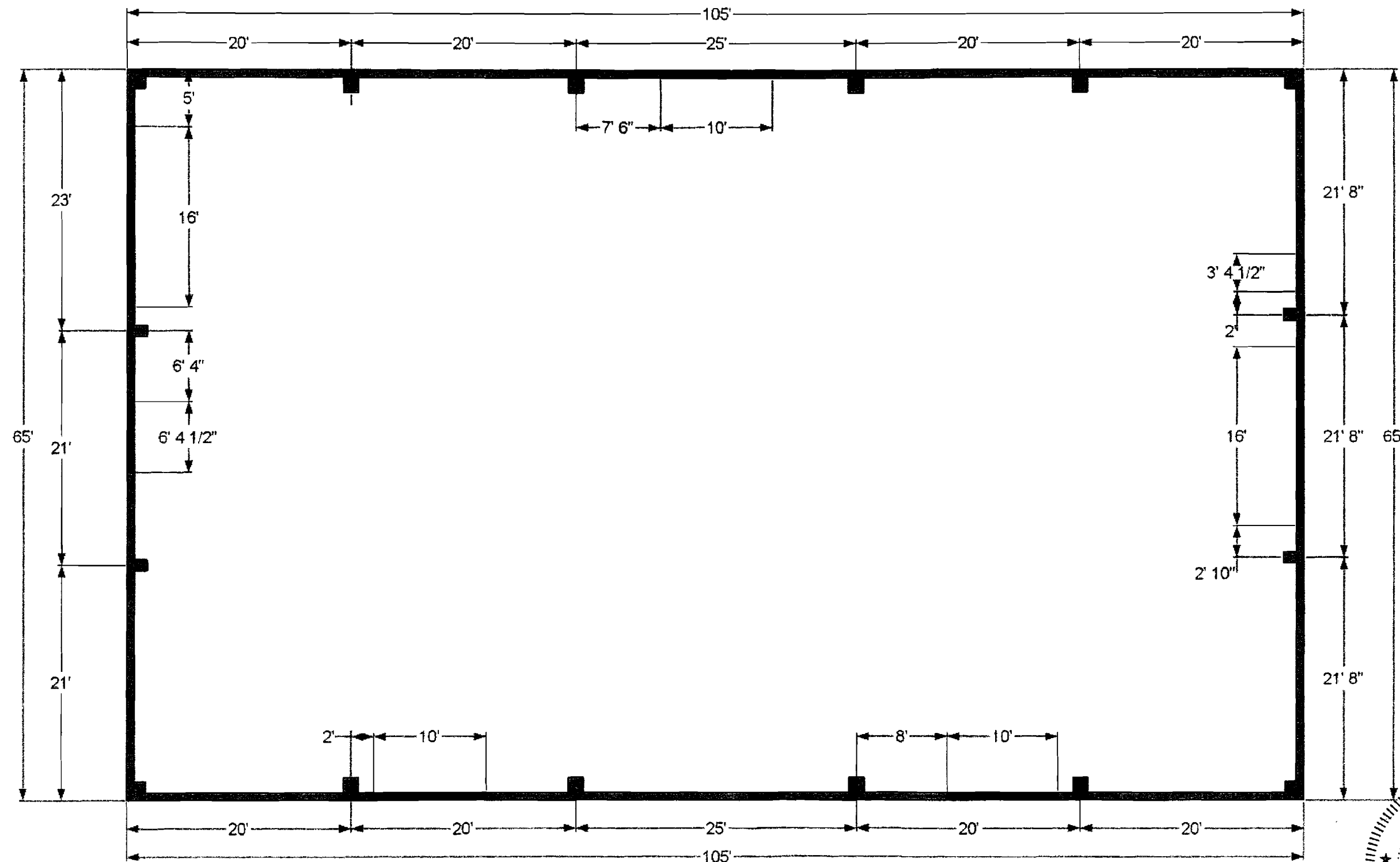
RECEIVED  
DEC 13 2011  
Dept. of Building Inspections  
City of Portland Maine



**OWNER:** Phoenix Property Management  
**JOB LOCATION:** Hutchins Drive, Portland, Maine  
**GENERAL CONTRACTOR:** Portland Builders, Inc.  
**ENGINEER OF RECORD:** Ted Greenlaw - 183 Columbia Road - Hanover, MA (781) - 826-8369

**FOUNDATION PLAN AND NOTES**

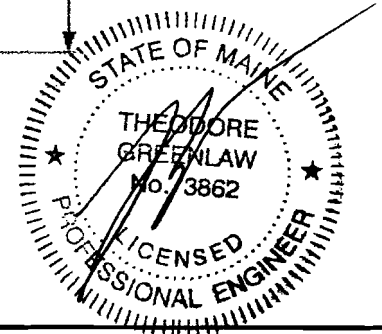
October 28<sup>th</sup>, 2011



#### DOOR LOCATIONS

(8" DROPS AT ALL DOOR LOCATIONS)

RECEIVED  
DEC 13 2011  
Dept. of Building Inspections  
City of Portland Maine

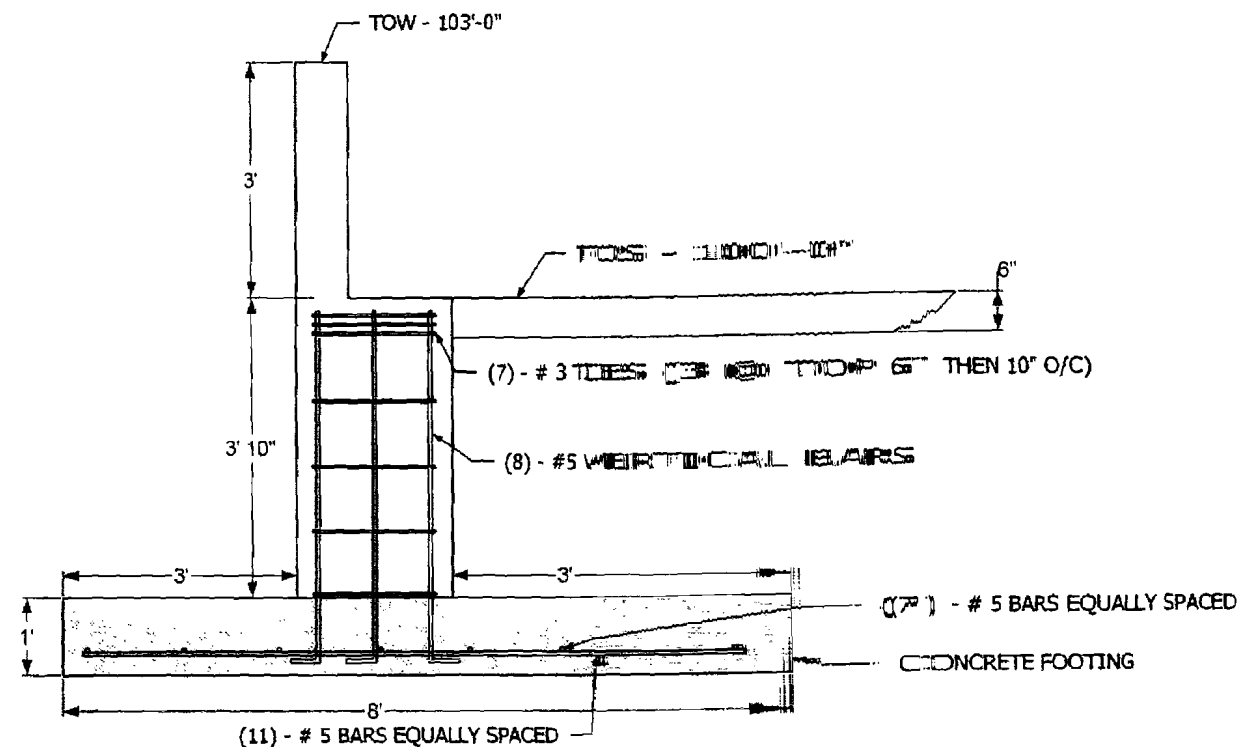
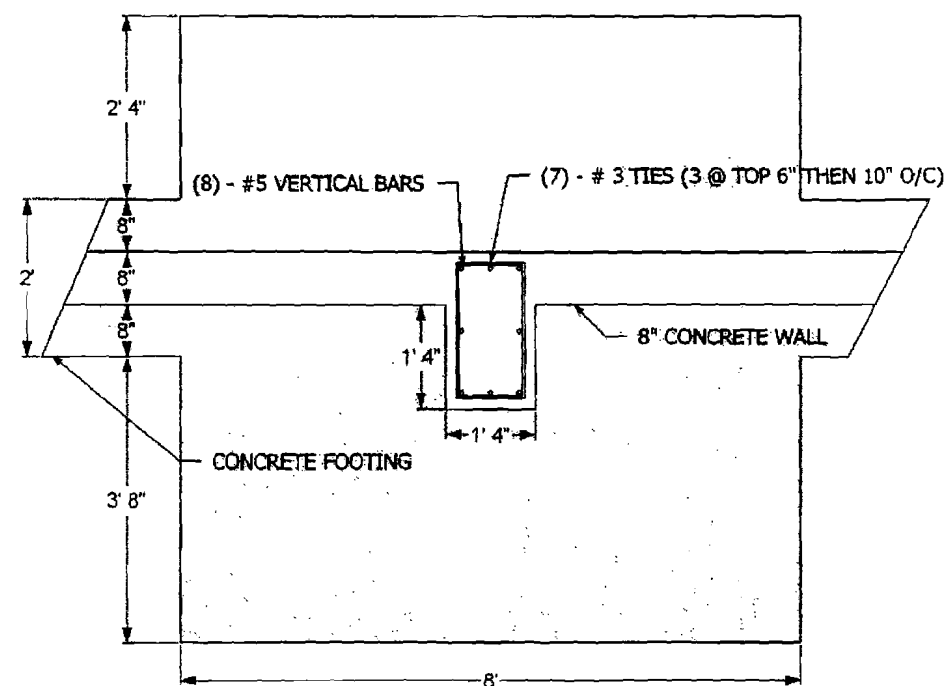


OWNER: Phoenix Property Management  
JOB LOCATION: Hutchins Drive, Portland, Maine  
GENERAL CONTRACTOR: Portland Builders, Inc.  
ENGINEER OF RECORD: Ted Greenlaw - 183 Columbia Road - Hanover, MA (781) - 826-8369

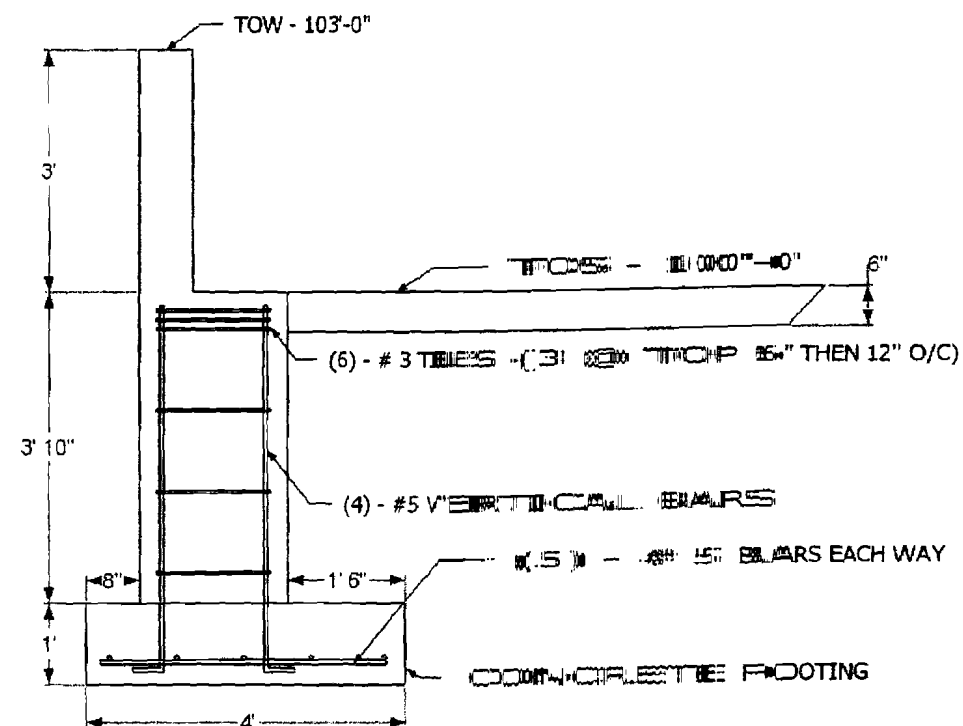
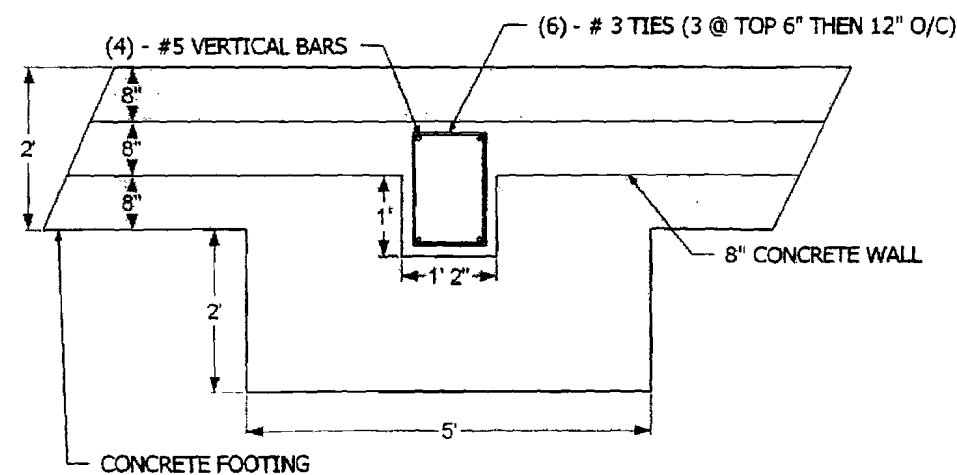
### FOUNDATION PLAN AND NOTES

October 28<sup>th</sup>, 2011

S2

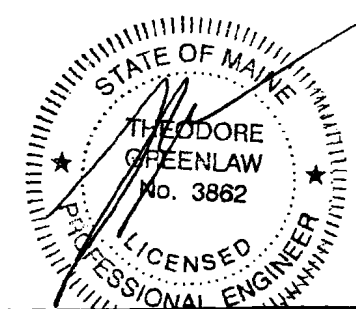


**F1.0 FOOTING AND PIER DETAILS**



**F2.0 FOOTING AND PIER DETAILS**

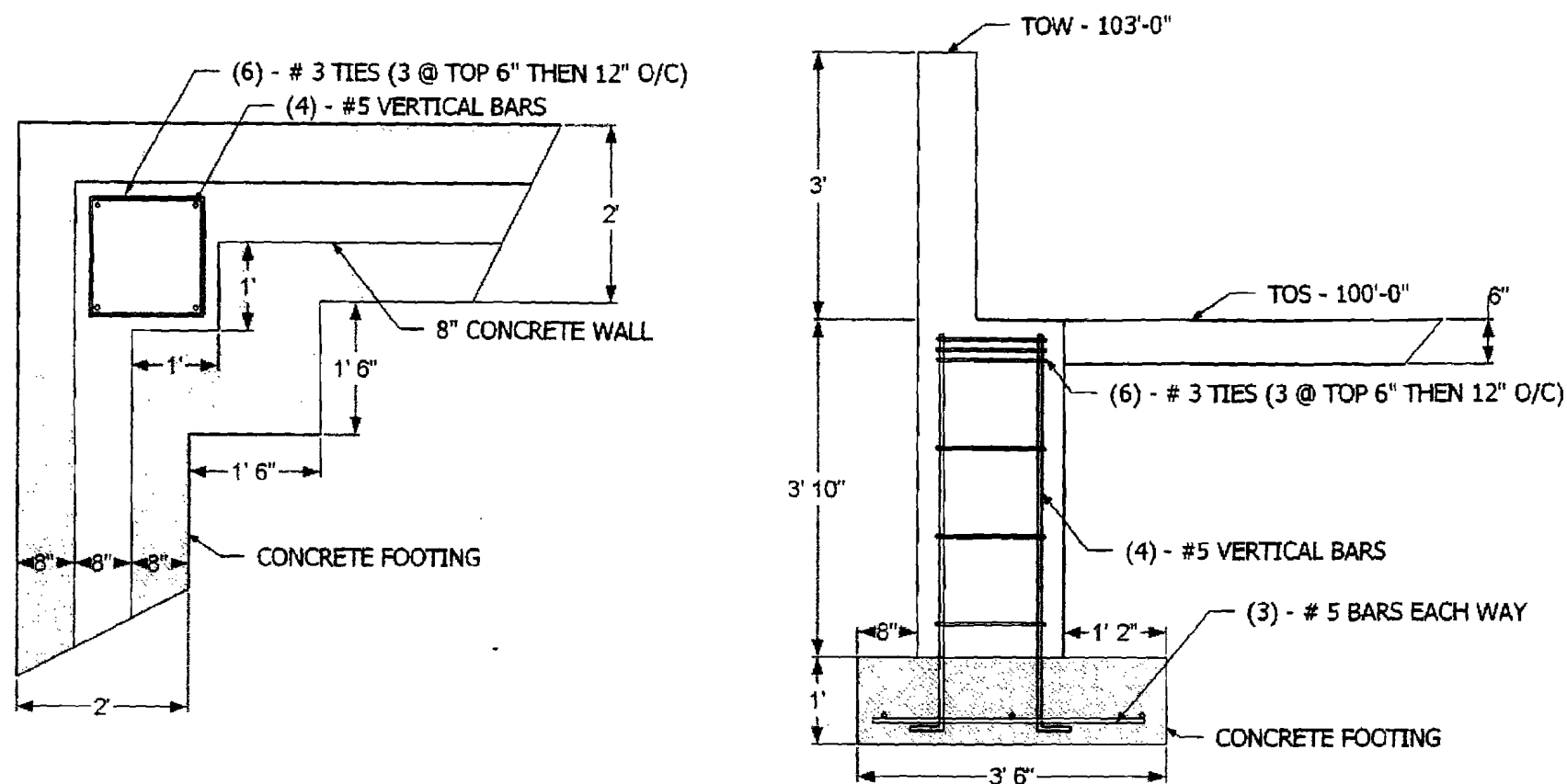
RECEIVED  
DEC 13 2011  
Dept. of Building Inspections  
City of Portland Maine



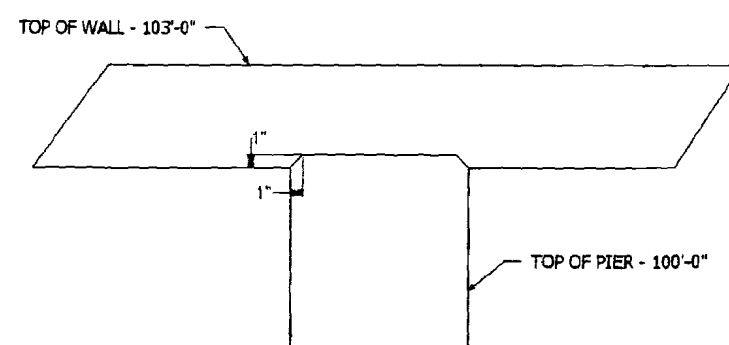
OWNER: Phoenix Property Management  
JOB LOCATION: Hutchins Drive, Portland, Maine  
GENERAL CONTRACTOR: Portland Builders, Inc.  
ENGINEER OF RECORD: Ted Greenlaw - 183 Columbia Road - Hanover, MA (781) - 826-8369

**FOUNDATION PLAN AND NOTES**

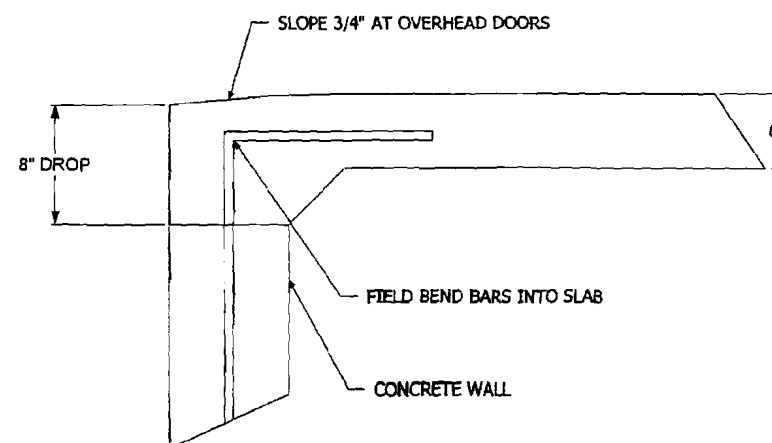
October 28<sup>th</sup>, 2011



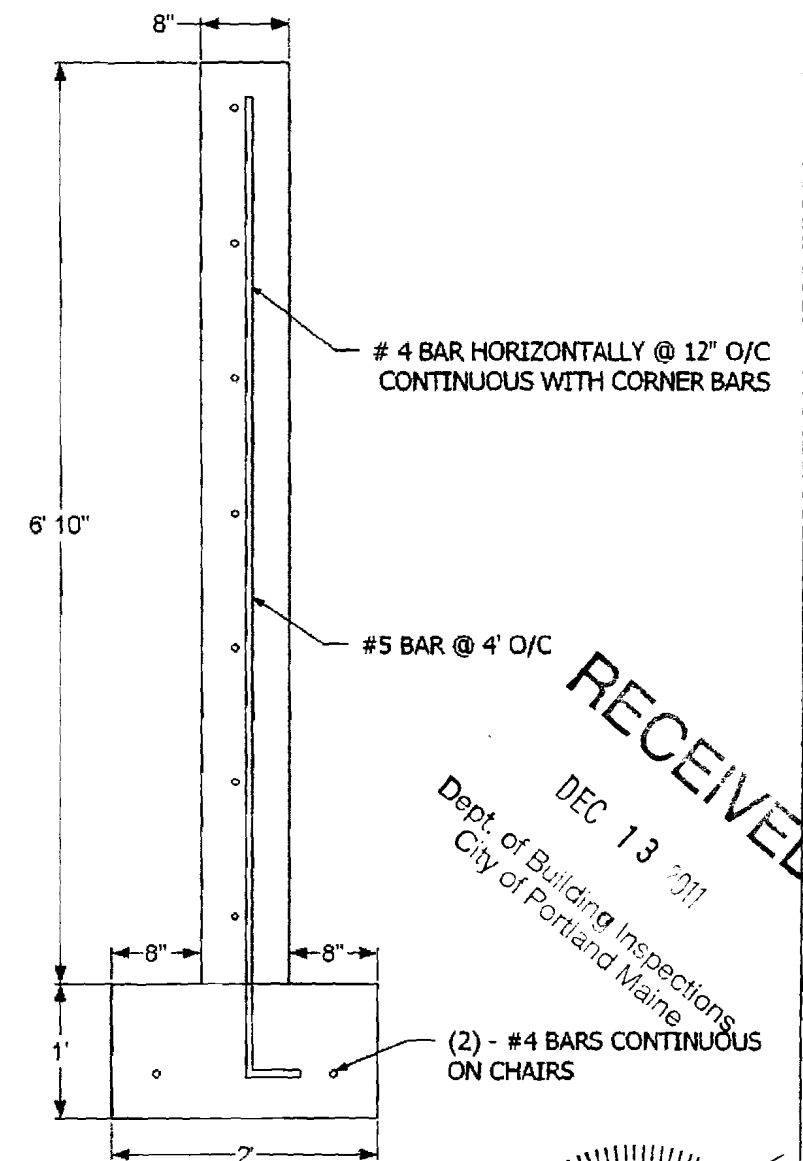
**F3.0 FOOTING AND PIER DETAILS**



**TYPICAL RELIEF DETAIL @ PIERS**

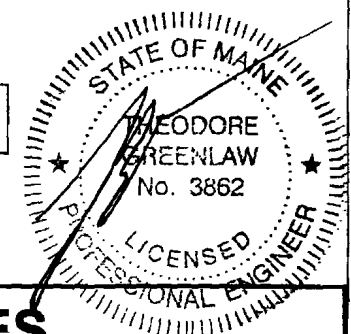


**OVERHEAD DOOR DETAILS**



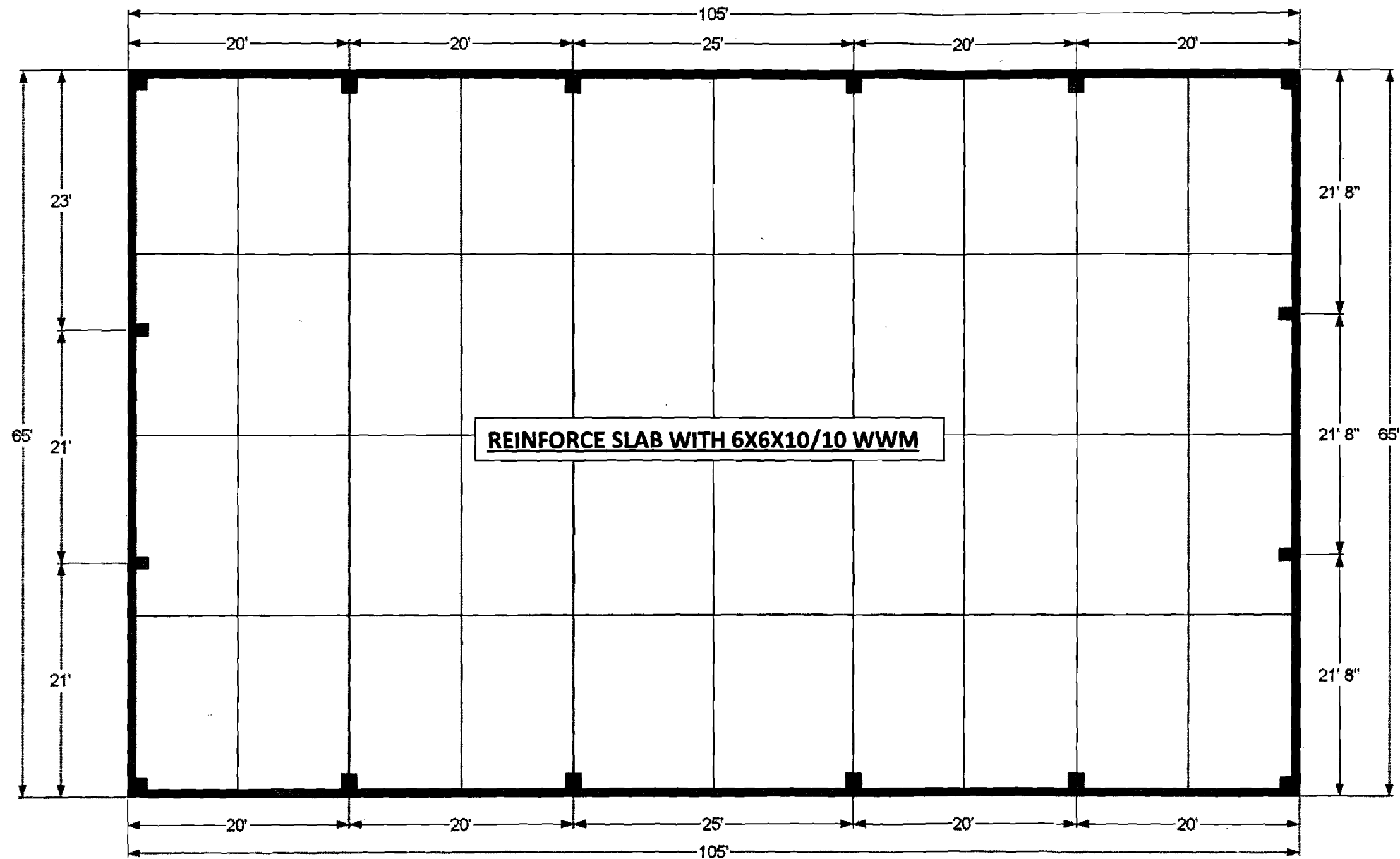
**TYPICAL WALL DETAILS**

RECEIVED  
DEC 13 2011  
Dept. of Building Inspections  
City of Portland Maine



OWNER: Phoenix Property Management  
JOB LOCATION: Hutchins Drive, Portland, Maine  
GENERAL CONTRACTOR: Portland Builders, Inc.  
ENGINEER OF RECORD: Ted Greenlaw - 183 Columbia Road - Hanover, MA (781) - 826-8369

**FOUNDATION PLAN AND NOTES**  
October 28<sup>th</sup>, 2011



**REINFORCE SLAB WITH 6X6X10/10 WWM**

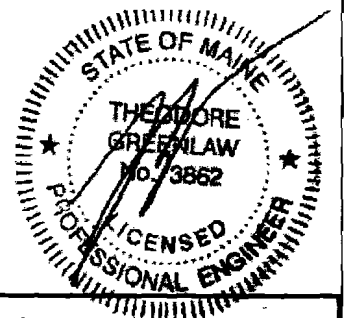
**CONTROL / EXPANSION JOINTS**

**(locations approximate, verify w/ GC)**

**SLAB NOTES:**

- 1.) FLOOR SLABS SHALL BE 6" THICK AND SHALL HAVE A HARD STEEL TROWEL FINISH (UNO). 1 1/2" DEEP HORIZONTAL CONTROL / EXPANSION JOINTS TO BE SAW CUT.
- 2.) A MINIMUM OF 12" OF STRUCTURAL FILL (MDOT TYPE D) SHALL BE PLACED DIRECTLY BELOW THE FLOOR SLAB.
- 3.) STRUCTURAL FILL SHOULD BE PLACED IN MAXIMUM 6" LIFTS AND SHALL BE COMPACTED TO A MINIMUM 95% PROCTOR PER ASTM D1557.
- 4.) VAPOR BARRIER AND INSULATION NOT SHOWN IS TO BE DETERMINED BY GENERAL CONTRACTOR.
- 5.) ALL INSPECTIONS AND TESTING ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR OR OWNER.

**RECEIVED**  
DEC 13 2011  
Dept. of Building Inspections  
City of Portland Maine



**OWNER:** Phoenix Property Management  
**JOB LOCATION:** Hutchins Drive, Portland, Maine  
**GENERAL CONTRACTOR:** Portland Builders, Inc.  
**ENGINEER OF RECORD:** Ted Greenlaw - 183 Columbia Road - Hanover, MA (781) - 826-8369

**FOUNDATION PLAN AND NOTES**

October 28<sup>th</sup>, 2011

**S5**

RECEIVED  
DEC 13  
Dept. of Building Inspections  
City of Portland Maine

Conterminous 48 States  
2003 NEHRP Seismic Design Provisions  
Latitude = 43.65  
Longitude = -70.34  
Spectral Response Accelerations Ss and S1  
Ss and S1 = Mapped Spectral Acceleration Values  
Site Class B - Fa = 1.0 ,Fv = 1.0  
Data are based on a 0.05 deg grid spacing

Period	Sa
(sec)	(g)
0.2	0.322 (Ss, Site Class B)
1.0	0.078 (S1, Site Class B)

Conterminous 48 States  
2003 NEHRP Seismic Design Provisions  
Latitude = 43.65  
Longitude = -70.34  
Spectral Response Accelerations SMs and SM1  
SMs = Fa x Ss and SM1 = Fv x S1  
Site Class E - Fa = 2.27 ,Fv = 3.5

Period	Sa
(sec)	(g)
0.2	0.731 (SMs, Site Class E)
1.0	0.272 (SM1, Site Class E)

Conterminous 48 States  
2003 NEHRP Seismic Design Provisions  
Latitude = 43.65  
Longitude = -70.34  
Design Spectral Response Accelerations SDs and SD1  
SDs = 2/3 x SMs and SD1 = 2/3 x SM1  
Site Class E - Fa = 2.27 ,Fv = 3.5

Period	Sa
(sec)	(g)
0.2	0.487 (SDs, Site Class E)
1.0	0.182 (SD1, Site Class E)

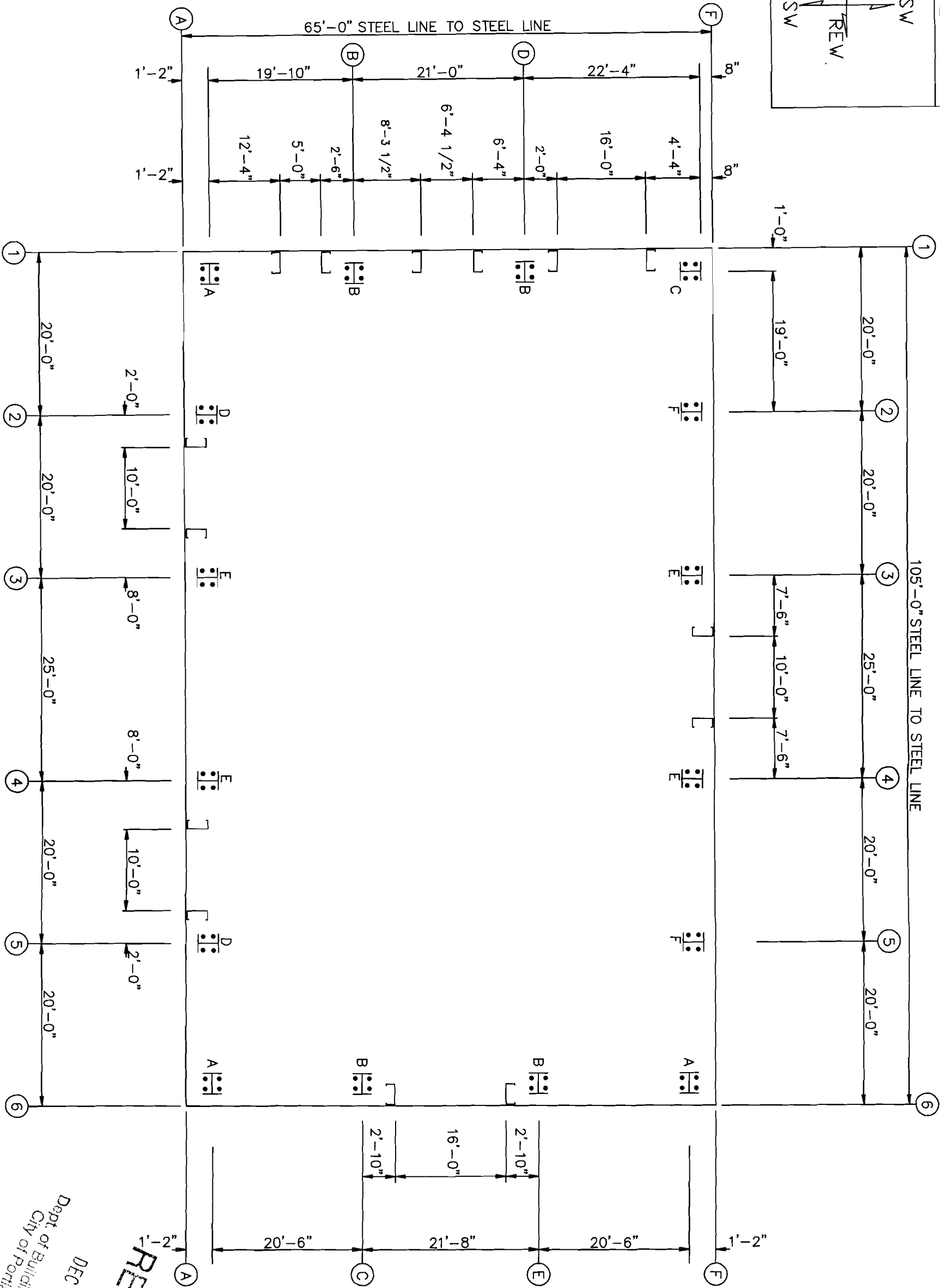
LEGEND

BSW

LEW

REW

FSW



ANCHOR BOLT PLAN  
NOTE: All Base Plates @ 100'-0" (U.N.)

RECEIVED  
DEC 13  
Dept. of Building Inspections  
City of Portland Maine

PHOENIX PROPERTY MANAGEMENT

DRAWING STATUS		REVISION HISTORY	
<input type="checkbox"/> FOR APPROVAL: THESE DRAWINGS, BEING FOR APPROVAL, ARE BY DEFINITION NOT FINAL, AND ARE FOR CONCEPTUAL REPRESENTATION ONLY. THEIR PURPOSE IS TO CONFIRM PROPER INTERPRETATION OF THE PROJECT DOCUMENTS. ONLY DRAWINGS ISSUED "FOR CONSTRUCTION" CAN BE CONSIDERED AS COMPLETE.		REV.	DESCRIPTION
		01	SEE CO-01
<input type="checkbox"/> FOR PERMIT: THESE DRAWINGS, BEING FOR PERMIT, ARE BY DEFINITION NOT FINAL. ONLY DRAWINGS ISSUED "FOR CONSTRUCTION" CAN BE CONSIDERED AS COMPLETE.		02	SEE CO-02
<input type="checkbox"/> FOR CONSTRUCTION: FINAL DRAWINGS.			

F.O. 16838

CORLE

114 ROSEMONT LANE, IMLER, PA 16655 (814)276-9611

PHOENIX PROPERTY MANAGEMENT

65'-0" x 105'-0" x 17'-0"

DATE: 12/6/11

REVISION: 02

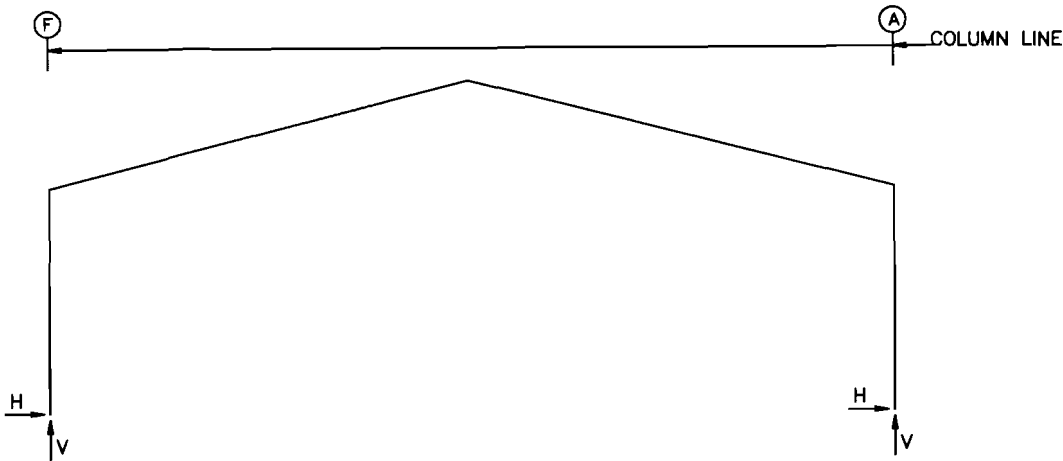
ENG: JJT

DWN: DJH

APPD: JJT



FRAME LINES: 2 3 4 5



RIGID FRAME: ANCHOR BOLTS & BASE PLATES

Frm Line	Col Line	Anc. Bolt Qty	Bolt Dia	Base Plate Width	Base Plate Length	Base Plate Thick	Grout (in)
2 *	F	4	0.750	8.000	11.76	0.500	0.0
2 *	A	4	0.750	8.000	11.63	0.500	0.0

2 \* Frame lines: 2 5

RIGID FRAME: ANCHOR BOLTS & BASE PLATES

Frm Line	Col Line	Anc. Bolt Qty	Bolt Dia	Base Plate Width	Base Plate Length	Base Plate Thick	Grout (in)
3 *	F	4	1.000	8.000	11.82	0.500	0.0
3 *	A	4	1.000	8.000	11.82	0.500	0.0

3 \* Frame lines: 3 4

RIGID FRAME: BASIC COLUMN REACTIONS (k )

Frame Line	Column Line	---Dead---		---Collateral---		---Live---		---Snow---		---Wind_L1---		---Wind_R1---	
		Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert
2 *	F	1.5	3.4	2.1	3.4	7.9	13.8	16.4	30.7	-7.2	-10.4	0.1	-6.8
2 *	A	-1.5	3.4	-2.1	3.3	-7.9	13.8	-16.4	30.6	-0.1	-6.8	7.2	-10.4
Frame Line	Column Line	---Wind_L2---		---Wind_R2---		---LnWind1---		---LnWind2---		---Seismic_L---		---Seismic_R---	
		Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert
2 *	F	-6.5	-6.9	0.8	-3.3	-3.1	-11.7	-2.1	-8.1	-4.7	-2.3	4.7	2.3
2 *	A	-0.8	-3.3	6.5	-6.9	3.1	-8.6	2.1	-5.0	-4.8	2.3	4.8	-2.3
Frame Line	Column Line	---LnSeis---		---LWIND1_L2E---		---LWIND1_R2E---		---LWIND2_L2E---		---LWIND2_R2E---		---F1UNB_SL_L---	
		Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert
2 *	F	0.0	-10.9	0.0	-1.2	-0.3	-0.2	0.0	-1.2	-0.3	-0.2	14.2	26.7
2 *	A	0.0	0.0	0.3	-0.2	0.0	-1.2	0.3	-0.2	0.0	-1.2	-14.2	15.7
Frame Line	Column Line	---F1UNB_SL_R---											
		Horiz	Vert										
2 *	F	14.1	15.7										
2 *	A	-14.1	26.7										
Frame Line	Column Line	---Dead---		---Collateral---		---Live---		---Snow---		---Wind_L1---		---Wind_R1---	
		Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert
3 *	F	1.7	3.9	2.3	3.8	8.9	15.5	18.4	34.5	-6.8	-11.1	-1.1	-8.3
3 *	A	-1.7	3.9	-2.3	3.8	-8.9	15.5	-18.4	34.5	1.1	-8.3	6.8	-11.1
Frame Line	Column Line	---Wind_L2---		---Wind_R2---		---LnWind1---		---LnWind2---		---Seismic_L---		---Seismic_R---	
		Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert
3 *	F	-6.0	-7.1	-0.4	-4.3	-3.5	-12.8	-2.4	-8.8	-3.2	-1.6	3.2	1.6
3 *	A	0.4	-4.3	6.0	-7.1	3.5	-12.1	2.4	-8.1	-3.2	1.6	3.2	-1.6
Frame Line	Column Line	---LnSeis---		---LWIND1_L2E---		---LWIND1_R2E---		---LWIND2_L2E---		---LWIND2_R2E---		---F2UNB_SL_L---	
		Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert
3 *	F	0.0	-10.9	0.0	-1.4	-0.4	-0.3	0.0	-1.4	-0.4	-0.3	15.9	30.0
3 *	A	0.0	-8.7	0.4	-0.3	0.0	-1.4	0.4	-0.3	0.0	-1.4	-15.9	17.6
Frame Line	Column Line	---F2UNB_SL_R---											
		Horiz	Vert										
3 *	F	15.9	17.6										
3 *	A	-15.9	30.0										
2 *	Frame lines:			2	5								
3 *	Frame lines:			3	4								

RECEIVED  
DEC 13  
Dept. of Building Inspections  
City of Portland Maine



114 ROSEMONT LANE, MILLER, PA 16655 (814)276-9811

PHOENIX PROPERTY MANAGEMENT

65'-0" x 105'-0" x 17'-0"

DATE: 12/6/11

REVISION: 02

ENG: JJT

DWN: DJH

APPD: JJT

PHOENIX PROPERTY MANAGEMENT

REVISION HISTORY

REV	DESCRIPTION	DATE
01	SEE CD-01	12/6/11
02	SEE CD-02	12/15/11

DRAWING STATUS

FOR APPROVAL:  
☐ THESE DRAWINGS, BEING FOR APPROVAL, ARE BY DEFINITION NOT FINAL AND ARE FOR CONCEPTUAL REPRESENTATION ONLY. THEIR PURPOSE IS TO CONFIRM PROPER INTERPRETATION OF THE PROJECT DOCUMENTS. ONLY DRAWINGS ISSUED "FOR CONSTRUCTION" CAN BE CONSIDERED AS COMPLETE.

FOR PERMIT:  
☐ THESE DRAWINGS, BEING FOR PERMIT, ARE BY DEFINITION NOT FINAL. ONLY DRAWINGS ISSUED "FOR CONSTRUCTION" CAN BE CONSIDERED AS COMPLETE.

FOR CONSTRUCTION:  
☒ FINAL DRAWINGS.

# ENDWALL COLUMN: BASIC COLUMN REACTIONS (k )

Frm Line	Col Line	Dead Vert	Collat Vert	Live Vert	---Snow--- Horz	---Drift--- Vert	Rafter Wind_L Vert	Rafter Wind_R Vert	Brace Wind_L Vert	Brace Wind_R Vert	Wind_P Horz	Wind_S Horz	
1	F	0.9	0.6	2.9	0.0	7.2	0.0	-2.8	-2.5	-2.8	-2.5	-1.3	
1	D	1.5	1.6	6.2	-0.1	12.9	0.0	-5.8	-3.5	-5.8	-3.5	-3.3	
1	B	1.4	1.5	5.7	-0.1	11.8	0.0	-3.1	-5.3	-3.1	-5.3	-3.1	
1	A	0.9	0.6	2.7	0.0	6.8	0.0	-2.3	-2.8	-2.3	-2.8	-1.2	
												1.4	
Frm Line	Col Line	LnWind1 Vert	LnWind2 Vert	Seis_L Vert	Seis_R Vert	E1UNB_SL_L Horz	E1UNB_SL_R Vert	E1UNB_SL_R Horz	Vert	-LWIND1_L- Horz	Vert	-LWIND1_R- Horz	Vert
1	F	-1.7	-1.0	0.1	0.3	0.0	5.0	0.0	1.3	0.0	-0.5	0.0	0.0
1	D	-4.0	-2.3	-0.2	-0.3	0.0	16.3	0.0	5.7	0.0	-0.6	0.0	0.1
1	B	-3.7	-2.2	-0.3	-0.1	0.0	4.4	0.0	15.6	0.0	0.1	0.0	-0.5
1	A	-1.6	-0.9	0.3	0.1	0.0	1.3	0.0	4.3	0.0	0.0	0.0	-0.5
Frm Line	Col Line	-LWIND2_L- Horz	Vert	-LWIND2_R- Horz	Vert								
1	F	0.0	-0.5	0.0	0.0								
1	D	0.0	-0.6	0.0	0.1								
1	B	0.0	0.1	0.0	-0.5								
1	A	0.0	0.0	0.0	-0.5								
Frm Line	Col Line	Dead Vert	Collat Vert	Live Vert	Snow Vert	Rafter Wind_L Vert	Rafter Wind_R Vert	Brace Wind_L Vert	Brace Wind_R Vert	Wind_P Horz	Wind_S Horz	LnWind1 Vert	LnWind2 Vert
6	A	0.9	0.6	2.8	6.9	-2.9	-2.4	-2.9	-2.4	-1.3	1.5	-1.6	-1.0
6	C	1.5	1.6	6.0	12.5	-5.4	-3.4	-5.4	-3.4	-3.2	3.6	-3.8	-2.3
6	E	1.5	1.6	6.0	12.5	-3.4	-5.4	-3.4	-5.4	-3.2	3.6	-3.8	-2.3
6	F	0.9	0.6	2.8	6.9	-2.4	-2.9	-2.4	-2.9	-1.3	1.5	-1.6	-1.0
Frm Line	Col Line	Seis_L Vert	Seis_R Vert	E2UNB_SL_L Horz	Vert	E2UNB_SL_R Horz	Vert	-LWIND1_L- Horz	Vert	-LWIND1_R- Horz	Vert	-LWIND2_L- Horz	Vert
6	A	0.1	0.3	0.0	4.5	0.0	1.2	0.0	-0.5	0.0	0.0	0.0	-0.5
6	C	-0.2	-0.3	0.0	16.0	0.0	5.2	0.0	-0.5	0.0	0.1	0.0	-0.5
6	E	-0.3	-0.2	0.0	5.2	0.0	16.0	0.0	0.1	0.0	-0.5	0.0	0.1
6	F	0.3	0.1	0.0	1.2	0.0	4.5	0.0	0.0	0.0	-0.5	0.0	0.0
Frm Line	Col Line	-LWIND2_R- Horz	Vert										
6	A	0.0	0.0										
6	C	0.0	0.1										
6	E	0.0	-0.5										
6	F	0.0	-0.5										

## ANCHOR BOLT SUMMARY

Qty	Locate	Dia (in)	Type
32	Endwall	3/4"	
16	Frame	3/4"	

## BUILDING BRACING REACTIONS

Wall Loc	Col Line	Bracing Line	In Roof To Rigid Frame	Reactions in plane of wall ± Reactions (k )	Panel Shear (lb/ft)
L_SW	1	A	3, 4	4.2 *	11.5 *
R_SW	6	F	5, 4	4.2 *	11.5 *

\*See RF reactions table for vertical and horizontal reactions in plane of the rigid frame.

# ENDWALL COLUMN: ANCHOR BOLTS & BASE PLATES

Frm Line	Col Line	Anchor Qty	Bolt Dia	Base Plate (in) Width	Length	Thick	Grout (in)
1	F	4	0.750	6.000	9.875	0.375	0.0
1	D	4	0.750	6.000	9.875	0.375	0.0
1	B	4	0.750	6.000	9.875	0.375	0.0
1	A	4	0.750	6.000	9.875	0.375	0.0
6	A	4	0.750	6.000	9.875	0.375	0.0
6	C	4	0.750	6.000	9.875	0.375	0.0
6	E	4	0.750	6.000	9.875	0.375	0.0
6	F	4	0.750	6.000	9.875	0.375	0.0

## NOTES FOR REACTIONS

- All loading conditions are examined and only the maximum / minimum H or V and the corresponding H or V are reported.
- Positive reactions are shown in the sketch. Foundation loads are in opposite directions.
- Bracing reactions are in the plane of the brace with the H pointing away from the braced bay. The vertical reaction is downward.
- Building reactions are based on the following building data:

## DESIGN CRITERIA

Width (ft)	= 65	SEISMIC CRITERIA	
Length (ft)	= 105	Seismic Importance	= 1.00
Eave Height (ft)	= 17	Occupancy Category	= II - Normal
Roof Slope (rise/12)	= 3.0:12		
Building Code	= IBC 09		
Local Code (State / Prov)	= IBC 09		
Dead Load (psf)	= 2.630	Mapped Spectral Response Accelerations	
Collateral Load (psf)	= 5	Ss	= 0.3220
Roof Live Load (psf)	= 20.00	S1	= 0.0780
Frame Live Load (psf)	= 20		
Snow:		Spectral Response Coefficients	
Ground Snow Load (psf)	= 60.0000	Sds	= 0.4872
Snow Importance	= 1.0000	Sd1	= 0.1820
Thermal Coefficient	= 1.00		
Snow Exposure Factor	= 1.00	Site Class	= E
Slippery Roof	= N	Seismic Design Category	= C
Roof Snow Load (psf)	= 42	Base Shear	
		Expanded Formula	= 0.667*le*Fa*Ss*W/R
		Longitudinal Base Shear	=22.32
		Transverse Base Shear	=29.94
Wind:		Seismic Response Coefficients	
Basic Wind Speed (mph)	= 100 mph	Frame	= 0.162
Occupancy Category	= II - Normal	FSW	= 0.162
Importance - Wind	= 1.00	BSW	= 0.162
Wind Exposure	= B		
Enclosure Classification	= C		
Internal Pressure Coefficients		Response Modification Factors	
Pressure	= 0.18	Frame	= 3
Suction	= -0.18	FSW	= 3
Components & Cladding		BSW	= 3
Design Pressure:			
Pressure	= 17.974		
Suction	= -24.021		

Equivalent Lateral Brace Force Procedure.

Steel systems not specifically detailed for seismic resistance.



114 ROSEMONT LANE, MILLER, PA 16655 (814)276-9611

PHOENIX PROPERTY MANAGEMENT

65'-0" x 105'-0" x 17'-0"

REVISION: 02

DATE: 12/6/11

ENG: JJT

APPD: JJT

F.O. 16838

## PHOENIX PROPERTY MANAGEMENT

REV.	DESCRIPTION	DATE
01	SEE 00-01	12/6/11
02	SEE 00-02	12/6/11

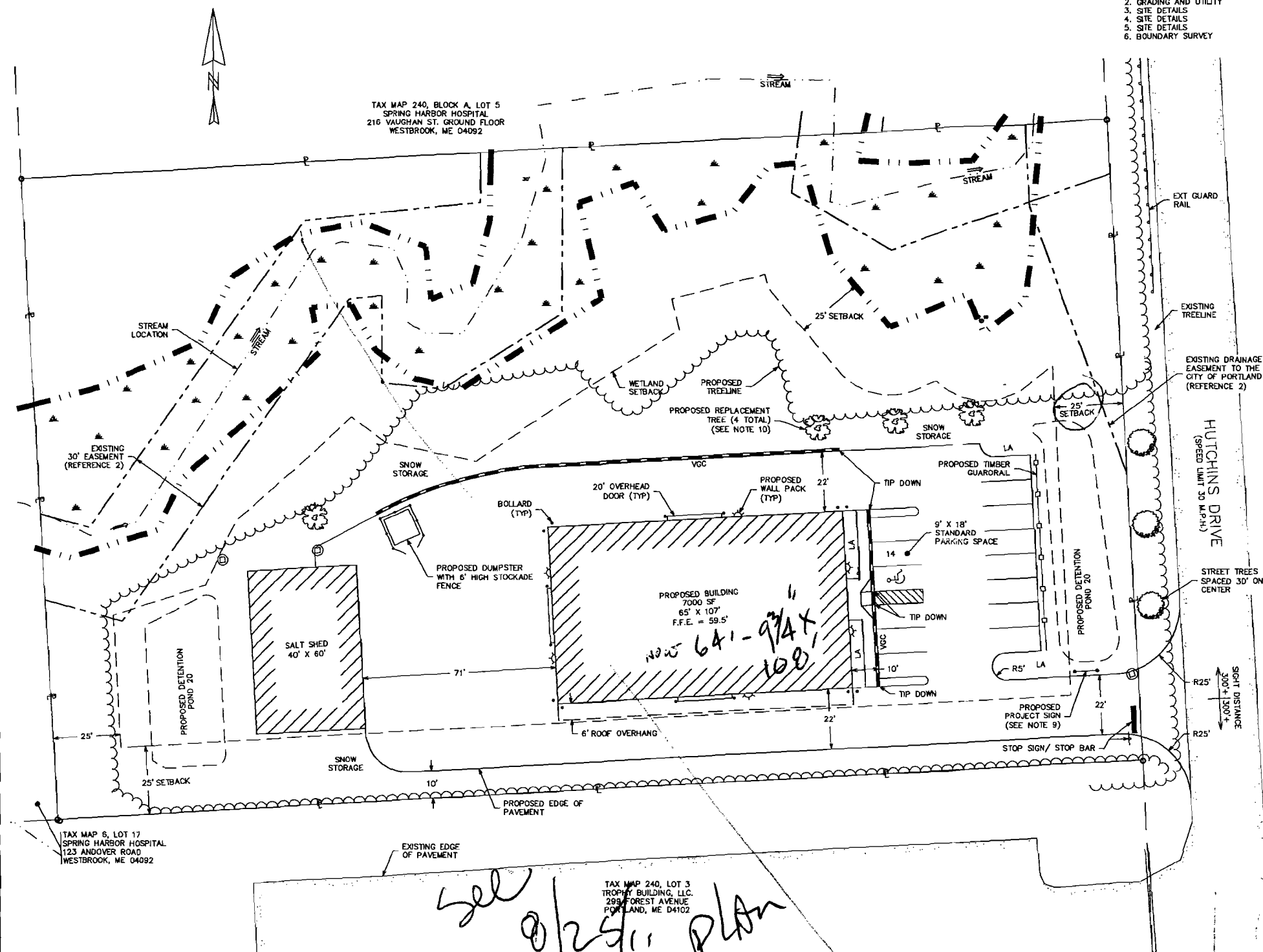
FOR APPROVAL: THESE DRAWINGS, BEING FOR APPROVAL, ARE BY DEFINITION NOT FINAL AND ARE FOR CONCEPTUAL REPRESENTATION ONLY. THEIR PURPOSE IS TO CONFIRM PROPER INTERPRETATION OF THE PROJECT DOCUMENTS. ONLY DRAWINGS ISSUED "FOR CONSTRUCTION" CAN BE CONSIDERED AS COMPLETE.

FOR PERMIT: THESE DRAWINGS, BEING FOR PERMIT, ARE BY DEFINITION NOT FINAL. ONLY DRAWINGS ISSUED "FOR CONSTRUCTION" CAN BE CONSIDERED AS COMPLETE.

FOR CONSTRUCTION: THESE DRAWINGS, BEING FOR CONSTRUCTION, ARE BY DEFINITION NOT FINAL. ONLY DRAWINGS ISSUED "FOR CONSTRUCTION" CAN BE CONSIDERED AS COMPLETE.

FINAL DRAWINGS.

RECEIVED  
DEC 13  
Dept. of Building Inspections  
City of Portland Maine



- INDEX OF SHEETS
- 1. SITE
  - 2. GRADING AND UTILITY
  - 3. SITE DETAILS
  - 4. SITE DETAILS
  - 5. SITE DETAILS
  - 6. BOUNDARY SURVEY

LEGEND

EXISTING CONTOUR	---	XXX
FINAL CONTOUR	---	XXX
WETLAND BOUNDARY	---	WETLAND
UTILITY POLE	EXT. "O"	PRP. "O"
EXT. WATER	---	EW
EXT. SEWER	---	ES
EXT. OVERHEAD UTIL.	---	EOHU
EXT. UNDERGROUND UTIL.	---	EUE
EXISTING EASEMENT	---	
PRP. WATER	---	PW
PRP. SEWER	---	PS
PRP. UTILITY	---	PUE/T/C
PRP. GAS	---	PG
WATER VALVE	---	
WATER SHUTOFF	---	
SEWER MANHOLE	---	
LIGHT POLE	EXT. "X"	PRP. "X"
SILTATION FENCE	---	
PROPOSED FENCE	---	
EXISTING FENCE	---	
ASPHALT CURB	---	AC
SLOPED GRANITE CURB	---	SGC
VERTICAL GRANITE CURB	---	VGC
EXISTING CURB	---	
FIRE HYDRANT	EXT. "H"	PRP. "H"
LANDSCAPED AREA	---	LA
SPOT GRADE	EXT. "X57.31"	PRP. "X57.31"



- GENERAL NOTES
- THIS PLAN PROVIDES DETAILS FOR THE APPROVAL AND CONSTRUCTION OF AN 7000 SF INDUSTRIAL BUILDING WITH A SEPARATE 2400 SF SALT SHED IN PORTLAND, MAINE. THE SITE IS LOCATED AT 144 HUTCHINS DRIVE AND IS IDENTIFIED ON THE CITY OF PORTLAND TAX ASSESSOR'S MAP 240, BLOCK A, LOT 4, AND IS 2.16 ACRES IN AREA WITH 235' OF STREET FRONTAGE ON HUTCHINS DRIVE.
  - THE PROPOSED BUILDING (APPROXIMATELY 7,000 SF FOOTPRINT) SHALL BE A MAINTENANCE FACILITY FOR PHOENIX MANAGEMENT.
  - THE PARCEL IS LOCATED IN THE INDUSTRIAL-MODERATE IMPACT (IM) DISTRICT. DISTRICT REQUIREMENT ARE AS FOLLOWS:  
MIN LOT SIZE = N/A  
MIN STREET FRONTAGE = 60'  
MAX FRONT YARD = 25'  
MIN REAR AND SIDE YARD = 25'  
MAX BUILDING HEIGHT = 75'
  - MAXIMUM IMPERVIOUS SURFACE RATIO ALLOWED IS 75% IN THE INDUSTRIAL-MODERATE IMPACT DISTRICT. COVERAGE CALCULATIONS ARE AS FOLLOWS:  
 $28,800 \text{ SF} / 94,002 \text{ SF} = 31.7\%$
  - BOUNDARY, TOPOGRAPHIC AND WETLAND INFORMATION WAS TAKEN FROM REFERENCE 1 AND FIELD OBSERVATIONS TAKEN BY ATTAR ENGINEERING IN MAY OF 2011.
  - REQUIRED PARKING IS CALCULATED AS FOLLOWS:  
8000 S.F. INDUSTRIAL SPACE:  
(1/1000 S.F.) TOTAL = 8 SPACES  
14 SPACES ARE PROVIDED, OF WHICH 1 SPACE IS ADA ACCESSIBLE.
  - WATER AND SEWER SERVICE SHALL BE PROVIDED TO THE SITE BY THE PORTLAND WATER DISTRICT. WATER AND SEWER IMPROVEMENTS SHALL BE INSTALLED IN ACCORDANCE WITH RESPECTIVE DISTRICT REQUIREMENTS.
  - THE CONTRACTOR MUST CONTACT DIG SAFE AND ALL LOCAL UTILITIES PRIOR TO THE START OF CONSTRUCTION TO VERIFY THE LOCATION OF EXISTING SUBSURFACE UTILITIES AND CONDITIONS. LOCATING AND PROTECTING ANY UNDERGROUND OR ABOVE GROUND UTILITY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
  - PROPOSED SIGN SHALL BE SUBJECT TO APPROVAL PURSUANT TO SECTION 14-526 (d) 8.c. (IV) OF THE LAND USE CODE.
  - REPLACEMENT TREES MUST BE LISTED ON THE CITY OF PORTLAND APPROVED NATIVE SPECIES LIST. SEE EXISTING CONDITIONS PLAN FOR TREE SURVEY INFORMATION. STREET TREES MUST MEET ALL STANDARDS SET FORTH IN THE CITY OF PORTLAND TECHNICAL MANUAL SECTION 4.7.

TAX MAP 6, LOT 17  
SPRING HARBOR HOSPITAL  
123 ANDOVER ROAD  
WESTBROOK, ME 04092

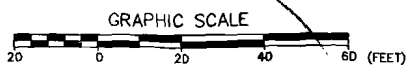
see 0/25/11 plan

TAX MAP 240, LOT 3  
TROPHY BUILDING, LLC  
289 FOREST AVENUE  
PORTLAND, ME 04102

- REFERENCES
- "CONCEPTUAL PLAN - LOT 13" PREPARED CBE/ THE BOULOS COMPANY BY TITOCOMB ASSOCIATES, DATED 1/05/2011,
  - "STROUDWATER ESTATES" PREPARED BY H. I. & E. C. JORDAN - SURVEYORS, DATED 10 SEPTEMBER 1984, RECORDED IN THE CUMBERLAND COUNTY REGISTRY OF DEEDS PLAN BOOK 144, PAGE 73.

CITY OF PORTLAND PLANNING BOARD	DATE

STATE OF MAINE  
CUMBERLAND COUNTY ss. REGISTRY OF DEEDS  
RECEIVED \_\_\_\_\_ 20\_\_\_\_  
AT \_\_\_\_\_ h. \_\_\_\_\_ m. \_\_\_\_\_ AND RECORDED IN  
PLAN BOOK \_\_\_\_\_ PAGE \_\_\_\_\_  
ATTEST \_\_\_\_\_ REGISTER



NO.	DESCRIPTION REVISIONS	DATE

NOT FOR CONSTRUCTION

SITE PLAN  
144 HUTCHINS DRIVE  
HUTCHINS DRIVE PORTLAND, MAINE

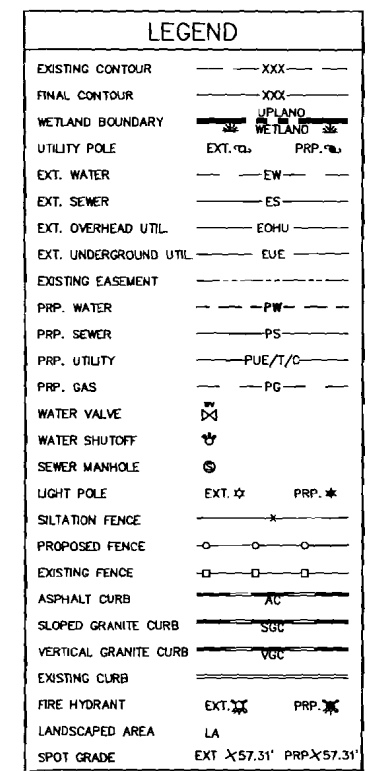
FOR: PHOENIX PROPERTY SERVICES  
PO BOX 759  
SACO, ME 04072-5118

ATTAR ENGINEERING, INC.  
CIVIL & STRUCTURAL & MARINE  
1284 STATE ROAD - ELIOT, MAINE 03903  
PHONE: (207)439-6023 FAX: (207)439-2128

SCALE: 1" = 20'	APPROVED BY: 	DRAWN BY: CLS
DATE: 06/17/11		REVISION : DATE 
JOB NO: C010-11	CAD FILE: HUTCHINS SITE	SHEET 1 OF

JUN 29 2011

APPLICANT: PHOENIX MANAGEMENT OWNER OF RECORD: MAINE ALPHA FLOOR SANDING  
PO BOX 579 23 RABBIT RUN  
SACO, ME 04072-5118 PORTLAND, ME 04102-2275



# GENERAL NOTES

ING TOPOGRAPHY WAS TAKEN FROM REFERENCE 1.

SEWER LINES TO BE 6" PVC (SDR 35).

STORM DRAINS SHALL BE ADS N-12 (HDPE) OR  
EQUALLY PROPER TRENCHING AND BACKFILLING ARE  
TO THE LONG TERM PERFORMANCE AND DURABILITY OF  
CULVERT INSTALLATIONS. SEE HDPE CULVERT TRENCH

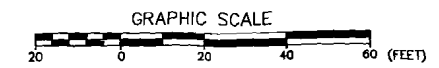
W BASINS AND DRAINAGE STRUCTURES SHALL BE  
BY CONTRACTOR AFTER CONSTRUCTION.

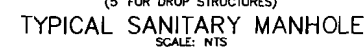
W MAINS SHALL BE DUCTILE IRON (DI). ALL OTHER  
FITTINGS AND CONNECTIONS SHALL MEET CURRENT  
40 WATER DISTRICT STANDARDS.

MINIMUM OF 5.0' OF COVER SHALL BE MAINTAINED OVER  
UR LINES.

POSED UTILITIES ARE APPROXIMATELY LOCATED. CENTRAL  
WORK WILL PREPARE THE ELECTRICAL PLAN FOR  
CTION.

GRADING AND UTILITY PLAN PLAN 144 HUTCHINS DRIVE HUTCHINS DRIVE PORTLAND, MAINE			
FOR:		PHOENIX PROPERTY SERVICES PO BOX 759 SACO, ME 04072-5118	
<b>ATTAR ENGINEERING, INC.</b> CIVIL • STRUCTURAL • MARINE 1284 STATE ROAD - ELIOT, MAINE 03903 PHONE: (207)439-6023 FAX: (207)439-2128			
SCALE:	APPROVED BY:		DRAWN BY:
1" = 20'			CLS
DATE:			REVISION : DATE
05/17/11			- - -
JOB NO: C010-11	CAD FILE: HUTCHINS GRAD		SHEET 2 OF -





TRENCH TO BE SUPPORTED BY SLOPING BACK AT 2:1 OR OTHER ACCEPTABLE METHOD.

CLAY BARRIERS (12" THICK, APPROX. 100' INTERVALS) ALONG THE PIPE BEDDING SHALL BE INSTALLED IN AREAS OF HIGH GROUNDWATER OR AS DIRECTED BY THE INSPECTING ENGINEER.



NOTE: HOUSE SEWER MAY BE LOCATED BENEATH BASEMENT FLOOR



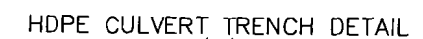
GRAVEL FILL TO BE COMPACTED TO 95% MODIFIED PROCTOR



CONTRACTOR TO COORDINATE WITH WATER DISTRICT ON LOCATION OF CURB STOPS



CATCH BASINS ARE TO BE PRECAST CONCRETE CONSTRUCTION MEETING THE REQUIREMENTS OF ASTM DESIGNATION C478 OR PRECAST CONCRETE MANHOLE BLOCK CONSTRUCTION MEETING THE REQUIREMENTS OF ASTM C139, RADIAL TYPE. METAL FRAMES AND TRAPS MUST BE SET IN A FULL MORTAR BED WITH TOPS TO CONFORM TO THE AASHTO REQUIREMENTS.



TRENCH TO BE SUPPORTED BY SLOPING BACK AT  
2:1 OR OTHER ACCEPTABLE METHOD.

NOMINAL DIAMETER (IN)	MIN. TRENCH WIDTH (IN)
4	21
6	23
8	25
10	28
12	31
15	34
18	39
24	48
30	66
36	78
42	83
48	89
60	102



REVIEW SET  
NOT FOR CONSTRUCTION

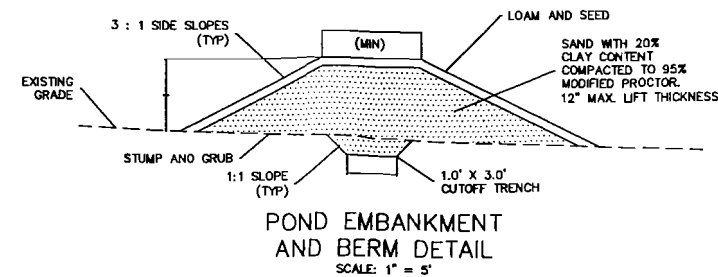
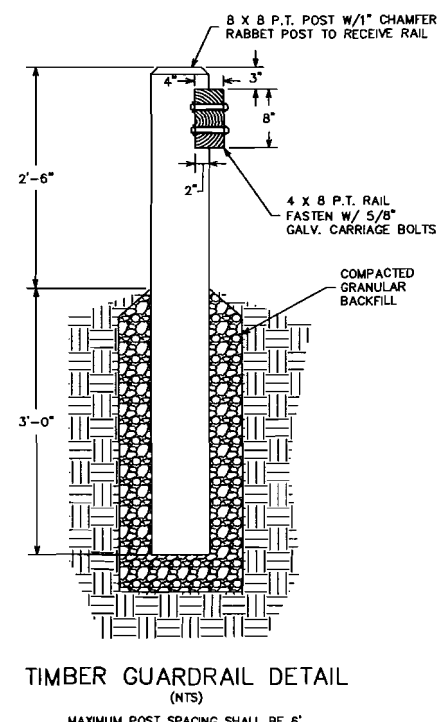
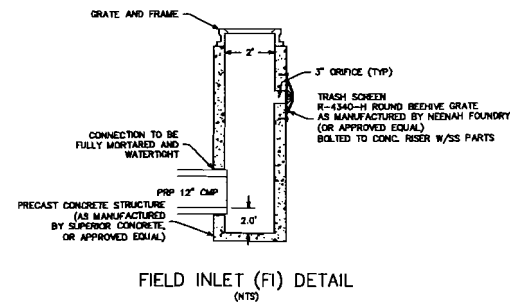
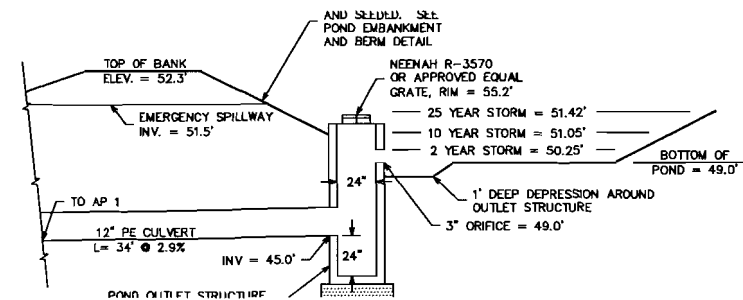
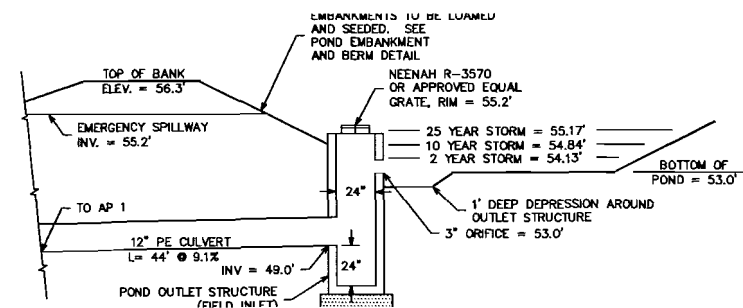
[illegible]

SITE DETAILS  
144 HUTCHINS DRIVE  
HUTCHINS DRIVE PORTLAND, MAINE

FOR: PHOENIX PROPERTY SERVICES  
PO BOX 759  
SACO, ME 04072-5118

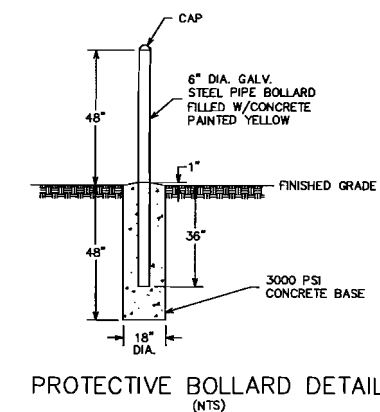
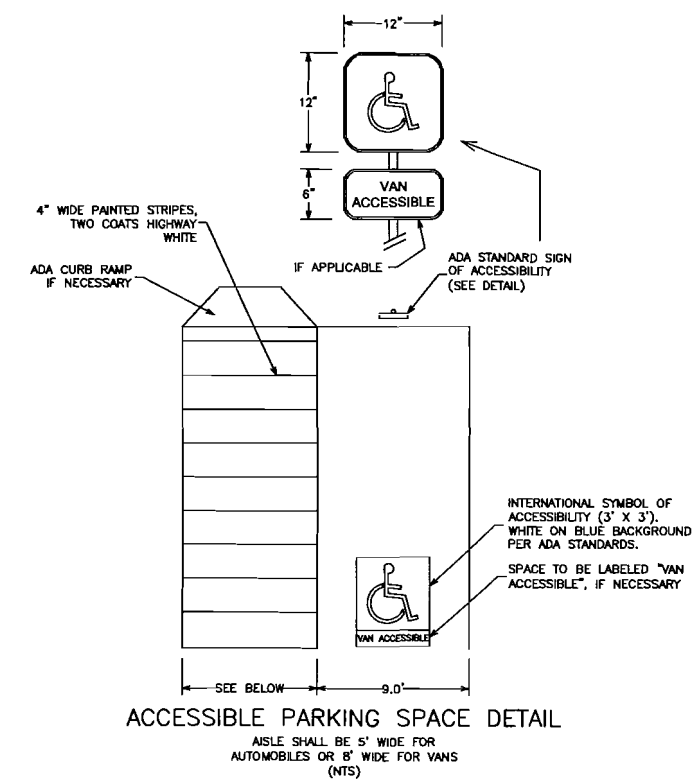
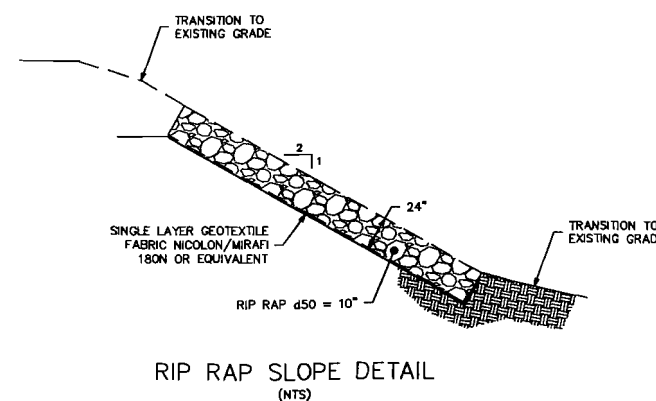
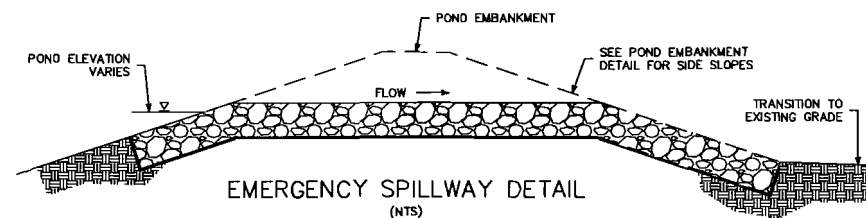
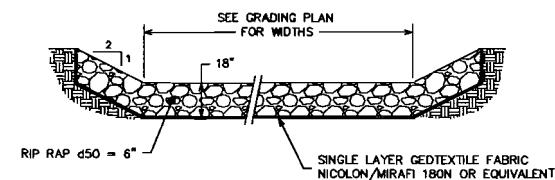
**ATTAR ENGINEERING, INC.**  
CIVIL ♦ STRUCTURAL ♦ MARINE  
128 STATE ROAD - ELIOT, MAINE 03903  
PHONE: (207)439-6023 FAX: (207)439-2128

PHONE: (207) 439-6025 FAX: (207) 439-2128		
SCALE: AS NOTED	APPROVED BY:	DRAWN BY: CLS
DATE: 06/17/11		REVISION : DATE - : -
JOB NO: C010-11	CAD FILE: HUTCHINS DET	SHEET 3 OF



- ## EMBANKMENT CONSTRUCTION NOTES

1. ALL ORGANIC MATERIAL, STUMPS, ROCKS AND BouldERS SHALL BE REMOVED TO A MINIMUM DEPTH OF 24" BELOW SUBGRADE OF THE BASIN EMBANKMENT. ALL EXCAVATIONS BELOW THE BASIN EMBANKMENT SHALL HAVE A MINIMUM SLOPE OF 1H : 1V.
2. ALL BASIN EMBANKMENT FILL MATERIAL SHALL BE SAND WITH 20% CLAY CONTENT. EMBANKMENT FILL SHALL BE PLACED IN 12" (MAX.) LIFTS AND BE COMPACTED TO 95% MODIFIED PROCTOR. A CUTOFF TRENCH SHALL BE EXCAVATED AS SHOWN PRIOR TO CONSTRUCTION OF EMBANKMENT.
3. DETENTION BASIN AND ALL EXCAVATIONS SHALL BE KEPT FREE OF WATER DURING CONSTRUCTION.
4. EMBANKMENT SIDE SLOPES AND BOTTOM OF DETENTION BASIN SHALL BE LOAMED, SEEDED AND MULCHED IN ACCORDANCE WITH THE EROSION AND SEDIMENTATION CONTROL NOTES.



REVIEW SET  
NOT FOR CONSTRUCTION

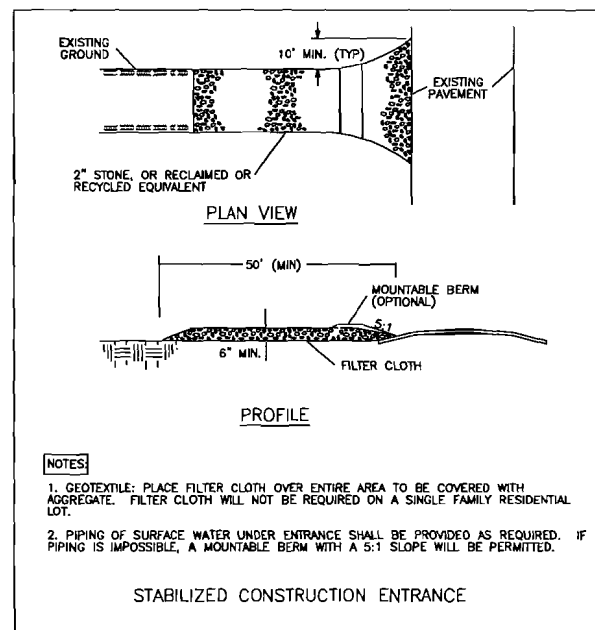
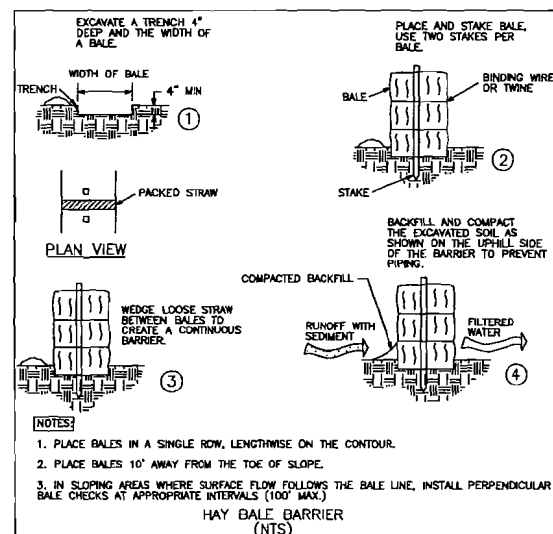
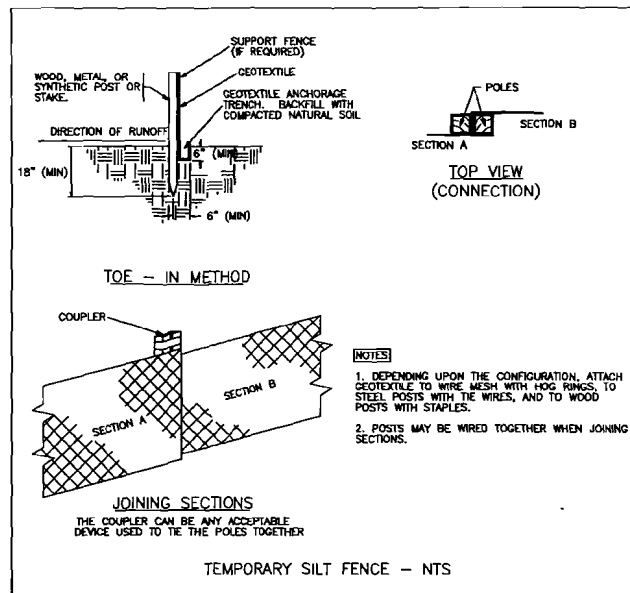
[illegible]

SITE DETAILS  
144 HUTCHINS DRIVE  
HUTCHINS DRIVE PORTLAND, MAINE

FOR: PHOENIX PROPERTY SERVICES  
PO BOX 759  
SACO, ME 04072-5118

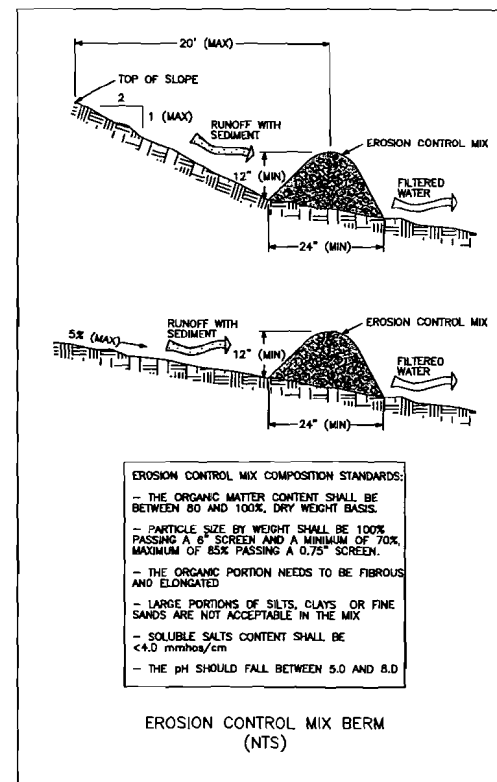
**ATTAR ENGINEERING, INC.**  
CIVIL • STRUCTURAL • MARINE  
128 STATE ROAD - ELIOT, MAINE 03903  
PHONE: (207)439-6023 FAX: (207)439-2128

PHONE: (207) 439-6025		FAX: (207) 439-2128	
SCALE:	APPROVED BY:	DRAWN BY:	CLS
AS NOTED		REVISION : DATE	- - -
DATE:			
06/17/11			
JOB NO: C010-11	CAD FILE: HUTCHINS.DET	SHEET 4 OF	



## EROSION & SEDIMENTATION CONTROL NOTES

1. SILTATION FENCE OR HAY BALE BARRIERS WILL BE INSTALLED DOWNSLOPE OF ALL STRIPPING OR CONSTRUCTION OPERATIONS. A DOUBLE SILT FENCE BARRIER SHALL BE INSTALLED DOWNSLOPE OF ANY SOIL MATERIAL STOCKPILES. SILT FENCES SHALL BE INSPECTED AFTER EACH RAIN EVENT AND DAILY DURING PROLONGED RAIN. SILT AND SOIL PARTICLES ACCUMULATING BEHIND THE FENCE SHALL BE REMOVED AFTER EACH SIGNIFICANT RAIN EVENT AND IN NO INSTANCE SHOULD ACCUMULATION EXCEED 1/2 THE HEIGHT OF THE FENCE. TORN OR DAMAGED AREAS SHALL BE REPAIRED.
2. TEMPORARY AND PERMANENT VEGETATION AND MULCHING IS AN INTEGRAL COMPONENT OF THE EROSION AND SEDIMENTATION CONTROL PLAN. ALL AREAS SHALL BE INSPECTED AND MAINTAINED UNTIL THE DESIRED VEGETATIVE COVER IS ESTABLISHED. THESE CONTROL MEASURES ARE ESSENTIAL TO EROSION PREVENTION AND ALSO REDUCE COSTLY REWORK OF GRADED AND SHAPED AREAS.
3. SEEDING, FERTILIZER AND LIME RATES AND TIME OF APPLICATION WILL BE DEPENDENT ON SOIL REQUIREMENTS. TEMPORARY VEGETATION SHALL BE MAINTAINED IN THESE AREAS UNTIL PERMANENT SEEDING IS APPLIED. ADDITIONALLY, EROSION AND SEDIMENTATION MEASURES SHALL BE MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED.
4. ALL LAWN AREA SHALL BE PERMANENTLY SEEDED WITH THE FOLLOWING MIXTURE: 20 LB/ACRE KENTUCKY BLUEGRASS, 20 LB/ACRE CREEPING RED FESCUE AND 5 LB/ACRE PERENNIAL RYE GRASS FOR A TOTAL OF 45 LB/ACRE. FERTILIZER AND LIME RATES SHALL BE DEPENDENT ON SOIL TESTING. IN THE ABSENCE OF SOIL TESTS, FERTILIZE WITH 10-20-20 (N-P205-K20) AT 800 LB/ACRE AND LIME AT 3 TONS/ACRE. MULCH WITH HAY AT 70-90 LB/1000 S.F. 4" OF LOAM SHALL BE APPLIED PRIOR TO SEEDING.
5. ALL DRAINAGE SWALES, POND EMBANKMENTS AND CROSSING EMBANKMENTS SHALL BE SEEDED WITH A MIXTURE OF CREEPING RED FESCUE, REDTOP AND TALL FESCUE. THE MIXTURE SHALL CONTAIN 20 LB/ACRE CREEPING RED FESCUE, 2 LB/ACRE REDTOP AND 20 LB/ACRE TALL FESCUE. SEE THE ABOVE NOTE FOR FERTILIZER, LIME AND MULCHING RATES.
6. TEMPORARY VEGETATION OF ALL DISTURBED AREAS, MATERIAL STOCKPILES AND OTHER SUCH AREAS SHALL BE ESTABLISHED BY SEEDING WITH EITHER WINTER RYE AT A RATE OF 112 LB/ACRE OR ANNUAL RYEGRASS AT A RATE OF 40 LB/ACRE. WINTER RYE SHALL BE USED FOR FALL SEEDING AND ANNUAL RYEGRASS FOR SHORT DURATION SEEDING. SEEDING SHALL BE ACCOMPLISHED BEFORE OCTOBER 1.
7. TEMPORARY SEEDING OF DISTURBED AREAS SHALL BE ACCOMPLISHED BEFORE OCTOBER 1. PERMANENT SEEDING SHALL BE ACCOMPLISHED BEFORE SEPTEMBER 15.
8. ALL SEEDED AREAS SHALL BE MULCHED WITH HAY AT A RATE OF 2 BALES (70-90 LB) PER 1000 S.F. OF SEEDED AREA.
9. ALL DISTURBED AREAS ON THE SITE SHALL BE PERMANENTLY STABILIZED WITHIN 7 DAYS OF FINAL GRADING OR TEMPORARILY STABILIZED WITHIN 30 DAYS OF INITIAL DISTURBANCE.
10. A STABILIZED CONSTRUCTION ENTRANCE SHALL BE INSTALLED AT ALL ACCESSES TO PUBLIC ROADS (SEE PLAN). TEMPORARY CULVERTS SHALL BE PROVIDED AS REQUIRED.
11. SLOPES 2:1 OR STEEPER SHALL BE TREATED WITH POLYJUTE OPEN WEAVE GEOTEXTILE (OR EQUIVALENT) AFTER SEEDING. JUTE MATS SHALL BE ANCHORED PER MANUFACTURER'S SPECIFICATIONS.
12. EXCESSIVE DUST CAUSED BY CONSTRUCTION OPERATIONS SHALL BE CONTROLLED BY APPLICATION OF WATER OR CALCIUM CHLORIDE.
13. THE CONTRACTOR MAY OPT TO USE EROSION CONTROL MIX BERM AS A SEDIMENT BARRIER IN LIEU OF SILTATION FENCE OR HAY BALE BARRIERS WITH APPROVAL FROM THE INSPECTING ENGINEER.



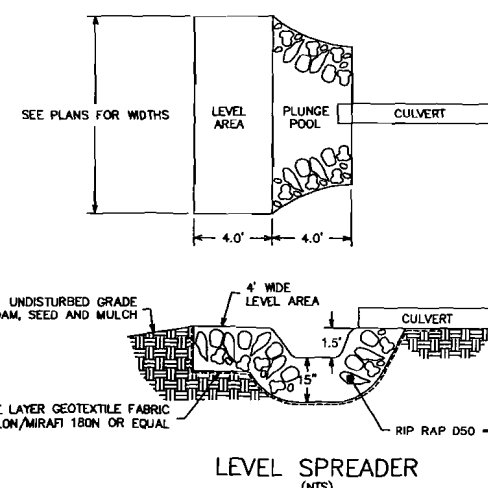
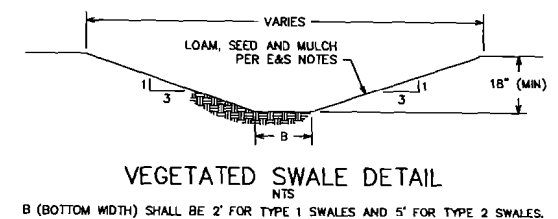
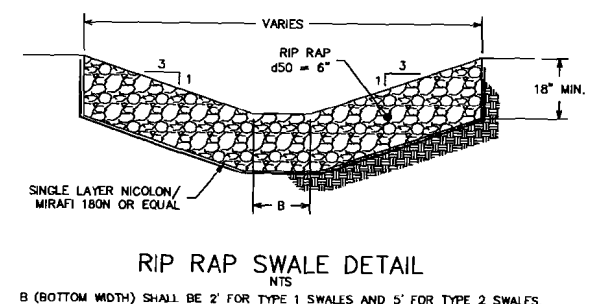
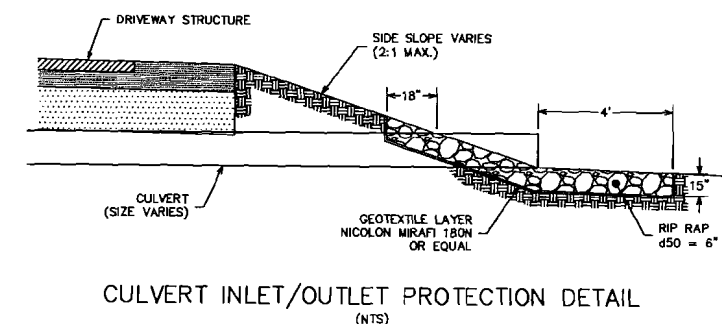
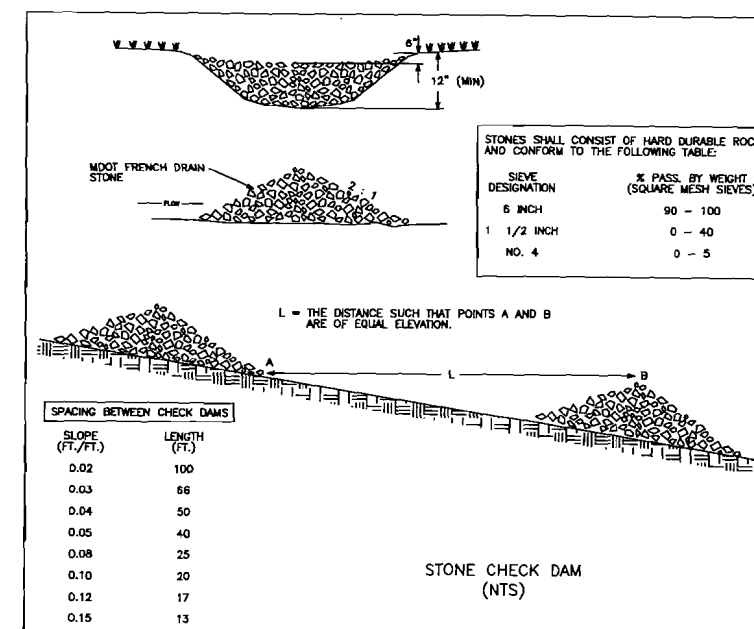
## DRIVEWAY CONSTRUCTION NOTES

1. DRIVEWAYS TO BE CONSTRUCTED IN ACCORDANCE WITH THE APPROPRIATE CROSS SECTION DETAIL. GRAVEL FILL TO BE COMPACTED TO 95% MODIFIED PROCTOR IN ACCORDANCE WITH ASTM D 1557. LIFT THICKNESSES TO BE A MAXIMUM OF 6".
2. ALL STUMPS, ORGANIC MATERIAL, ROCKS AND BOULDERS TO BE REMOVED TO A MINIMUM DEPTH OF 24" BELOW SUBBASE.
3. ALL STUMPS, LEDGE AND LARGE BOULDERS TO BE REMOVED FROM THE CONSTRUCTION AREA. THE CONSTRUCTION AREA SHALL BE CLEARED AND ROUGH GRADED.
4. ALL CULVERTS TO BE ADS N-12 (HDPE) OR APPROVED EQUAL. CULVERT INLETS AND OUTLETS TO BE PROTECTED IN ACCORDANCE WITH THE CULVERT INLET/OUTLET PROTECTION DETAIL.
5. THE CONTRACTOR MUST CONTACT DIG SAFE AND ALL LOCAL UTILITIES PRIOR TO THE START OF CONSTRUCTION TO VERIFY THE LOCATION OF EXISTING SUBSURFACE UTILITIES AND CONDITIONS. LOCATING AND PROTECTING ANY UNDERGROUND OR ABOVE GROUND UTILITY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

## WINTER CONSTRUCTION NOTES

NOVEMBER 1 - APRIL 15

1. EXPOSED AREAS SHOULD BE LIMITED TO AN AREA THAT CAN BE MULCHED IN ONE DAY PRIOR TO ANY SNOW EVENT.
2. AN AREA SHALL BE CONSIDERED STABILIZED WHEN EXPOSED SURFACES HAVE BEEN EITHER MULCHED WITH HAY AT A RATE OF 100 LB/1000 S.F. OR DORMANT SEEDED, MULCHED AND ADEQUATELY ANCHORED BY AN APPROVED ANCHORING TECHNIQUE. IN ALL CASES, MULCH SHALL BE APPLIED SO THAT THE SOIL SURFACE IS NOT VISIBLE THROUGH THE MULCH.
3. FROM OCTOBER 15 TO APRIL 1, LOAM AND SEED WILL NOT BE REQUIRED. DURING PERIODS OF TEMPERATURES ABOVE FREEZING, DISTURBED AREAS SHALL BE FINE GRADED AND PROTECTED WITH MULCH OR TEMPORARILY SEEDED AND MULCHED UNTIL PERMANENT SEEDING CAN BE APPLIED. AFTER NOVEMBER 1, DISTURBED AREAS MAY BE LOAMED, FINE GRADED AND DORMANT SEEDED AT A RATE 200-300% HIGHER THAN THE SPECIFIED PERMANENT SEEDING RATE. IF CONSTRUCTION CONTINUES DURING FREEZING WEATHER, DISTURBED AREAS SHALL BE GRADED BEFORE FREEZING AND TEMPORARILY STABILIZED WITH MULCH. DISTURBED AREAS SHALL NOT BE LEFT OVER THE WINTER OR FOR ANY OTHER EXTENDED PERIOD OF TIME UNLESS STABILIZED WITH MULCH.
4. FROM NOVEMBER 1 TO APRIL 15 ALL MULCH SHALL BE ANCHORED BY EITHER PEG LINE, MULCH NETTING, ASPHALT EMULSION CHEMICAL, TRACK OR WOOD CELLULOSE FIBER. MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL DRAINAGE WAYS WITH SLOPES GREATER THAN 3% SLOPES EXPOSED TO DIRECT WINDS AND FOR SLOPES GREATER THAN 8% MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL AREAS WITH SLOPES GREATER THAN 15%. AFTER OCTOBER 1, THE SAME APPLIES TO ALL SLOPES GREATER THAN 8%.
5. DURING WINTER CONSTRUCTION, DORMANT SEEDING OR MULCH AND ANCHORING SHALL BE APPLIED TO ALL DISTURBED AREAS AT THE END OF EACH WORKING DAY.
6. SNOW SHALL BE REMOVED FROM AREAS OF SEEDING AND MULCHING PRIOR TO PLACEMENT.



## REVIEW SET NOT FOR CONSTRUCTION

NO.	DESCRIPTION	DATE

**SITE DETAILS**  
144 HUTCHINS DRIVE  
HUTCHINS DRIVE PORTLAND, MAINE

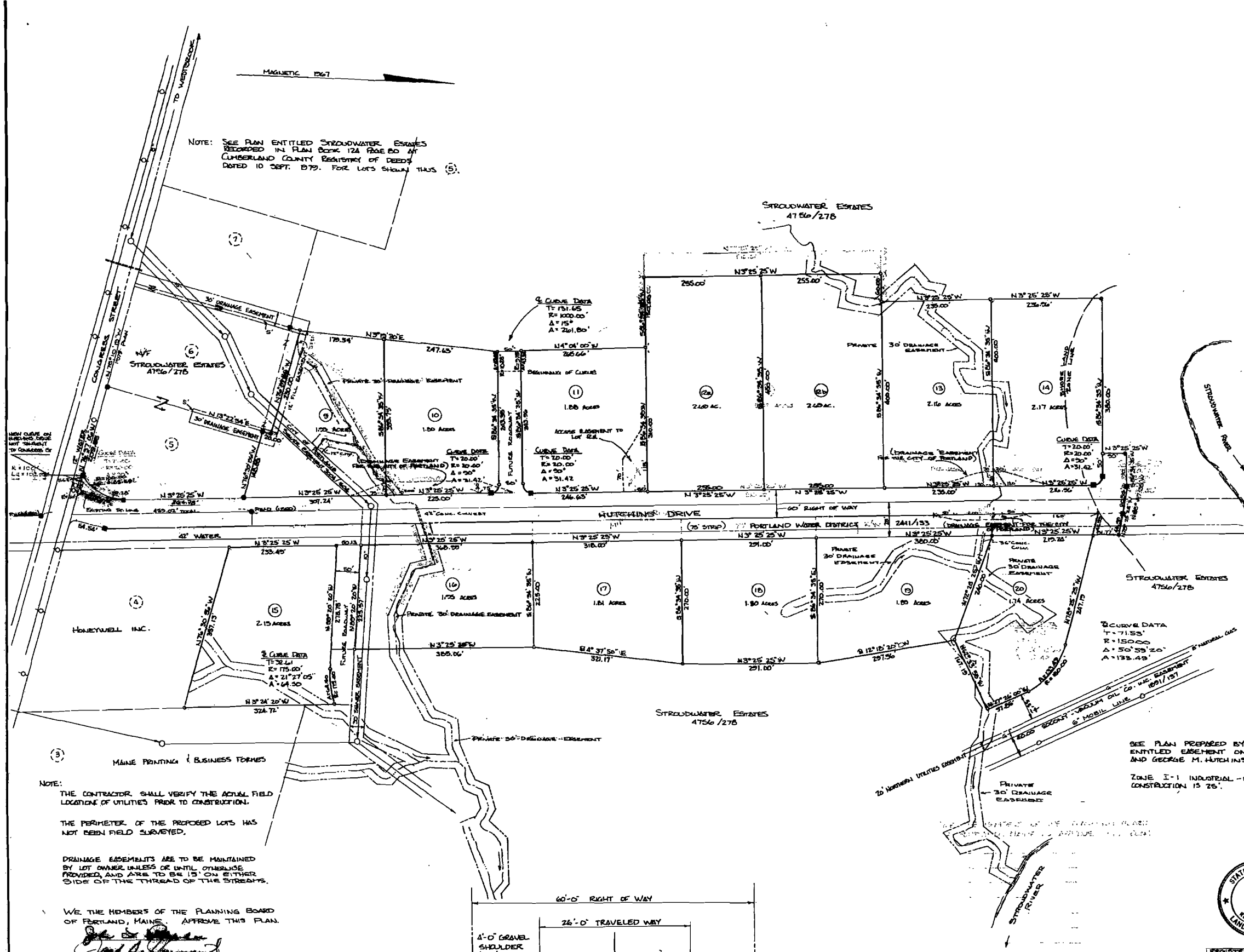
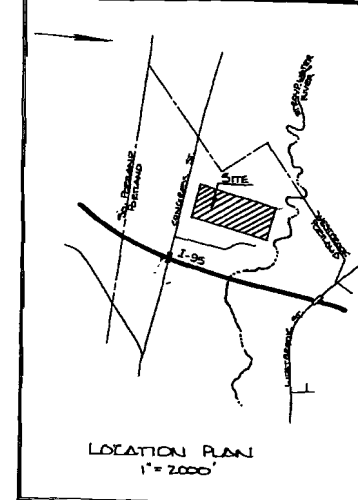
FOR: PHOENIX PROPERTY SERVICES  
PO BOX 759  
SACO, ME 04072-5118

**ATTAR ENGINEERING, INC.**  
CIVIL • STRUCTURAL • MARINE  
128 STATE ROAD - ELIOT, MAINE 03903  
PHONE: (207)439-6023 FAX: (207)439-2128

SCALE: AS NOTED	APPROVED BY:	DRAWN BY: CLS
DATE: 6/17/11		REVISION : DATE - : -
JOB NO: C010-11	CAD FILE: HUTCHINS DET	SHEET 5 OF



NOTE: SEE PLAN ENTITLED STROUDWATER ESTATES RECORDED IN PLAN BOOK 124 PAGE 80 AT CUMBERLAND COUNTY REGISTER OF DEEDS DATED 10 SEPT. 1979. FOR LOTS SHOWN THUS (5).



- LEGEND
- IRON PILING (USED)
  - ⊕ EXISTING MONUMENT
  - MONUMENTS TO BE SET
  - SEWER MANHOLE
  - △ HYDRANT
  - UTILITY POLE
  - BURIED GAS LINE
  - BURIED OIL LINE
  - ⊙ RECORDED LOTS
  - ⊙ PROPOSED LOTS
  - PROPERTY MARKER TO BE SET

DEVELOPER: HARRY H. HARMON JR.  
GEORGE M. HUTCHINS  
1000 CONGRESS ST.  
PORTLAND, MAINE 04101

OWNER: STROUDWATER ESTATES  
1000 CONGRESS ST.  
PORTLAND, MAINE 04101

SEE PLAN PREPARED BY NORTHERN UTILITIES INC. ENTITLED EASEMENT ON LAND OF HARRY H. HARMON AND GEORGE M. HUTCHINS P.L.S. DATED 2 JULY 1968.

ZONE I-1 INDUSTRIAL - MINIMUM SET BACK LINE FOR CONSTRUCTION IS 25'.

FINAL PLAN - PHASE 2

State of Maine, Cumberland ss.  
Registry of Deeds  
Received *[Signature]* 1984  
at *[Signature]* and recorded in  
Plan Book *[Signature]* Page *[Signature]*  
Attest *[Signature]*  
Register



REGISTERED LAND SURVEYOR  
John P. R. Cyr

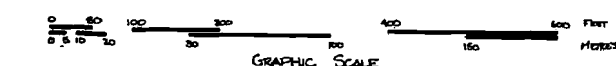
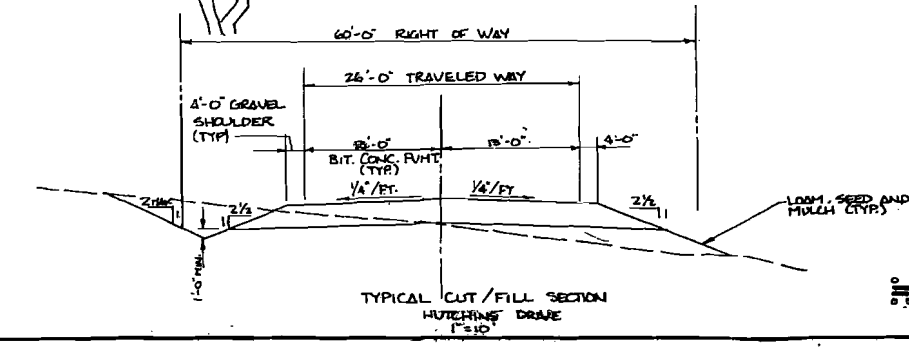
DATE	REVISION
PLAN OF PROPERTY	
IN	
PORTLAND, MAINE	
MADE FOR	
STROUDWATER ESTATES	
H. I. & E. C. JORDAN - SURVEYORS	
Divisions of E.C. & C. JORDAN CO. INC.	
SCALE: 1" = 100'	DATE: 10 SEP 1984
SURVEY	PLAN FILE NO.
ADJ. COMP.	1250
TRACED	457-00
SALE	1250

NOTE: THE CONTRACTOR SHALL VERIFY THE ACTUAL FIELD LOCATION OF UTILITIES PRIOR TO CONSTRUCTION.

THE PERIMETER OF THE PROPOSED LOTS HAS NOT BEEN FIELD SURVEYED.

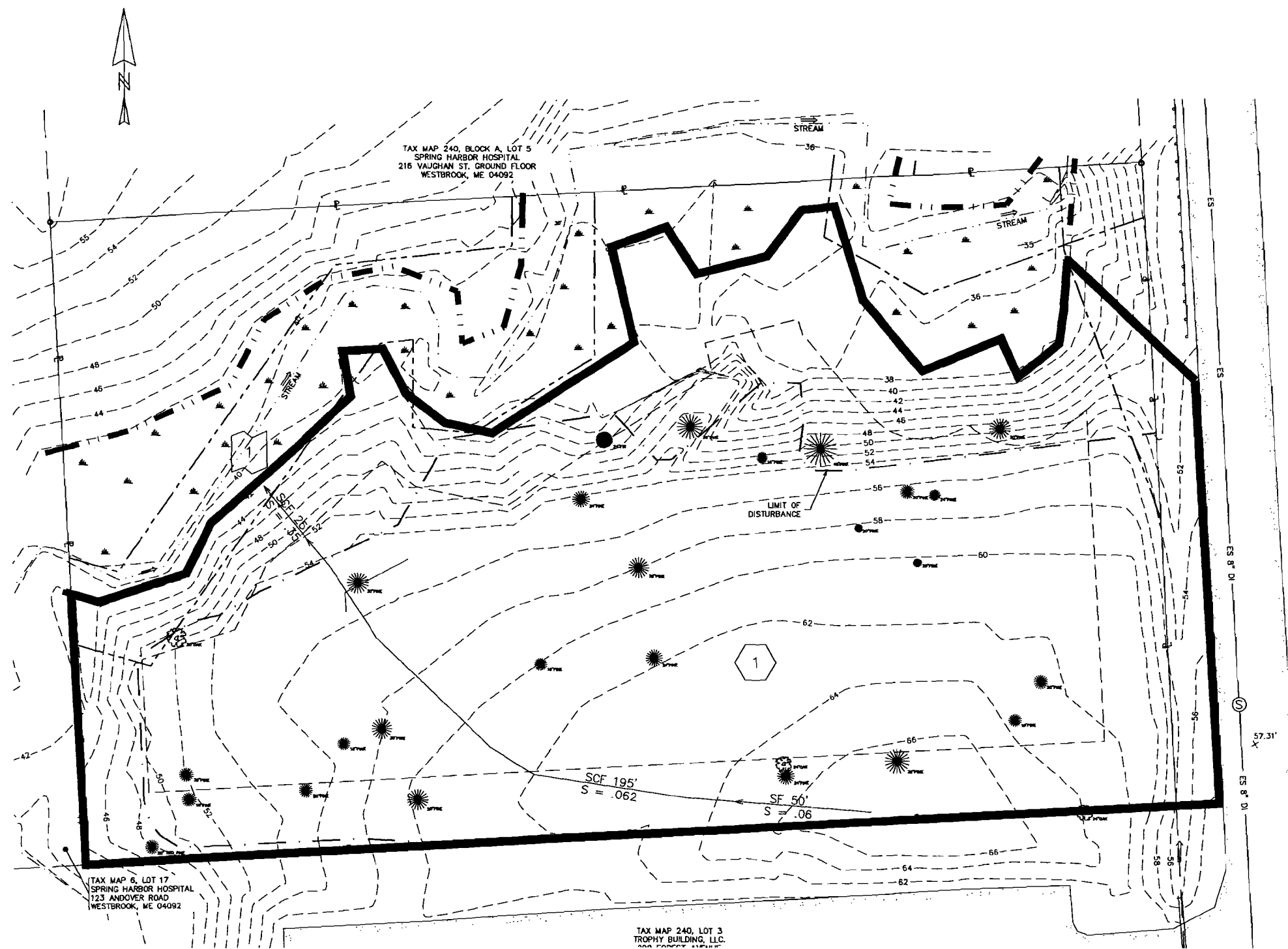
DRAINAGE EASEMENTS ARE TO BE MAINTAINED BY LOT OWNER UNLESS OR UNTIL OTHERWISE PROVIDED, AND ARE TO BE 15' ON EITHER SIDE OF THE THREAD OF THE STREAMS.

WE, THE MEMBERS OF THE PLANNING BOARD OF PORTLAND, MAINE, APPROVE THIS PLAN.









DATE: August 14, 1984









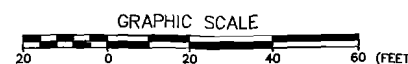
### LEGEND


WETLAND BOUNDARY	
EXT. CONTOUR	
PRP. CONTOUR	
SUBCATCHMENT BNDY.	
SOIL TYPE BOUNDARY	
To PATH	

**SOILS LEGEND**  
EmB - ELMWOOD FINE SANDY LOAM, 3% TO 8% SLOPES. HSG C  
SU - SULFHEMISTS, FREQUENTLY FLOODED

	SUBCATCHMENT	<h1>FLOW TYPES</h1> <p>SF – SHEET FLOW          SCF – SHALLOW CONCENTRATED FLOW          CF – CHANNELIZED FLOW          PIPE – PE PIPE FLOW</p>
	REACH	
	POND	
	ANALYSIS POINT	

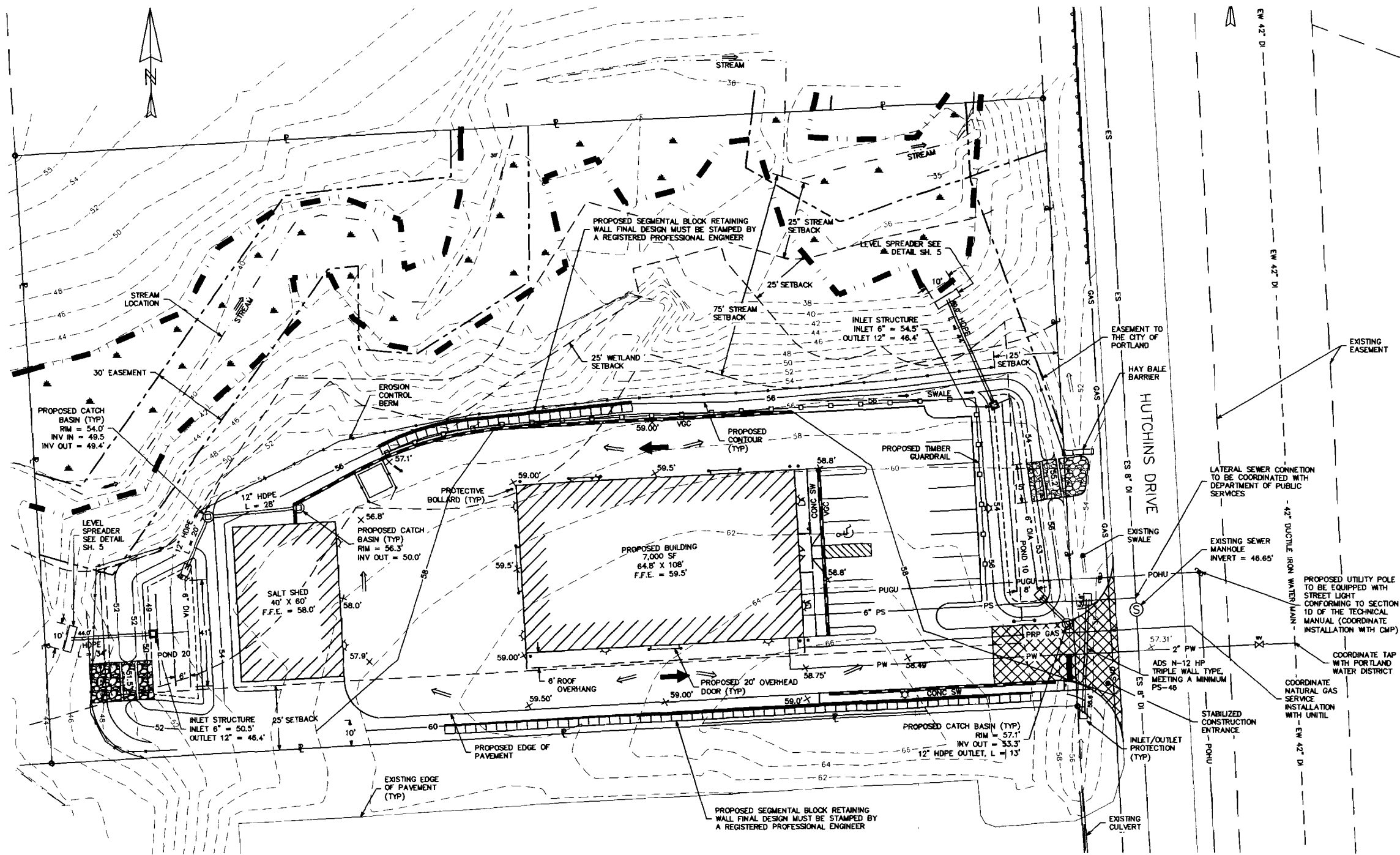
NOT FOR CONSTRUCTION

[illegible]

EXISTING CONDITIONS PLAN HUTCHINS DRIVE HUTCHINS DRIVE PORTLAND, MAINE		
FOR:	PHOENIX PROPERTY SERVICES PO BOX 759 SACO, ME 04072-5118	
	<b>ATTAR ENGINEERING, INC.</b> CIVIL ♦ STRUCTURAL ♦ MARINE 1284 STATE ROAD - ELIJOT, MAINE 03903 PHONE: (207) 439-6023 FAX: (207) 439-2128	
	SCALE: 1" = 20'	APPROVED BY:  CLS
	DATE: 06/17/11	REVISION : DATE - : -
JOB NO: C010-11	CAD FILE: HUTCHINS EXT	SHEET 1 OF 2







LEGEND	
EXISTING CONTOUR	XXX
FINAL CONTOUR	XXX
WETLAND BOUNDARY	WETLAND
UTILITY POLE	EXT. 10' PRP. 10'
EXT. WATER	EW
EXT. SEWER	ES
EXT. OVERHEAD UTIL.	EOHU
EXT. UNDERGROUND UTIL.	EUE
EXISTING EASEMENT	
PRP. WATER	PW
PRP. SEWER	PS
PRP. UTILITY	PUE/T/C
PRP. GAS	PG
WATER VALVE	WV
WATER SHUTOFF	WS
SEWER MANHOLE	SM
LIGHT POLE	EXT. 10' PRP. 10'
EROSION CONTROL BERM	ECB
PROPOSED FENCE	PF
EXISTING FENCE	EF
ASPHALT CURB	AC
SLOPED GRANITE CURB	SGC
VERTICAL GRANITE CURB	VGC
EXISTING CURB	EC
FIRE HYDRANT	EXT. 10' PRP. 10'
LANDSCAPED AREA	LA
SPOT GRADE	EXT. 10' PRP. 10'

#### GENERAL NOTES

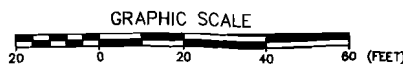
- EXISTING TOPOGRAPHY WAS TAKEN FROM REFERENCE 1.
- ALL SEWER LINES TO BE 6" PVC (SDR 35).
- ALL STORM DRAINS SHALL BE ADS N-12 (HDPE) OR APPROVED EQUAL. PROPER TRENCHING AND BACKFILLING ARE VITAL TO THE LONG TERM PERFORMANCE AND DURABILITY OF HDPE CULVERT INSTALLATIONS. SEE HOPE CULVERT TRENCH DETAIL.
- CATCH BASINS AND DRAINAGE STRUCTURES SHALL BE CLEANED BY CONTRACTOR AFTER CONSTRUCTION.
- ALL WATER SERVICES SHALL BE (TYPE K) COPPER WITHIN THE RIGHT OF WAY AND EITHER COPPER OR A MATERIAL SUITABLE TO THE PORTLAND WATER DISTRICT ON THE PROPERTY. ALL OTHER VALVES, FITTINGS AND CONNECTIONS SHALL MEET CURRENT PORTLAND WATER DISTRICT STANDARDS.
- A MINIMUM OF 5.0' OF COVER SHALL BE MAINTAINED OVER ALL WATER LINES.
- PROPOSED UTILITIES ARE APPROXIMATELY LOCATED. CENTRAL MAINE POWER WILL PREPARE THE ELECTRICAL PLAN FOR CONSTRUCTION.

#### GRADING AND UTILITY PLAN 144 HUTCHINS DRIVE HUTCHINS DRIVE PORTLAND, MAINE

FOR: PHOENIX PROPERTY SERVICES  
PO BOX 759  
SACO, ME 04072-5118

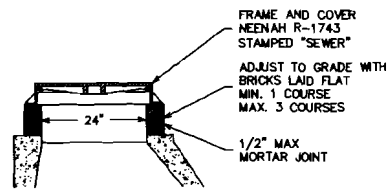
**ATTAR ENGINEERING, INC.**  
CIVIL • STRUCTURAL • MARINE  
1284 STATE ROAD - ELIOT, MAINE 03903  
PHONE: (207)439-6023 FAX: (207)439-2128

SCALE: 1" = 20'  
DATE: 06/17/11  
JOB NO: CD10-11  
APPROVED BY: [Signature]  
DRAWN BY: CLS  
REVISION: DATE  
B: 09/16/11  
SHEET 2 OF 7

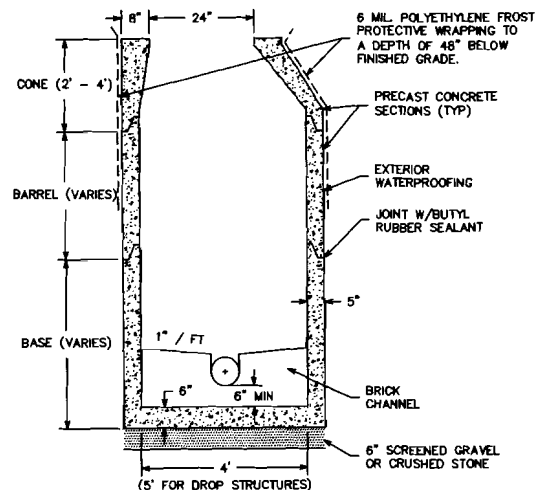


NO.	REVISIONS	DATE
B.	REVIEW COMMENTS	09/16/11
A.	REVIEW COMMENTS	06/03/11

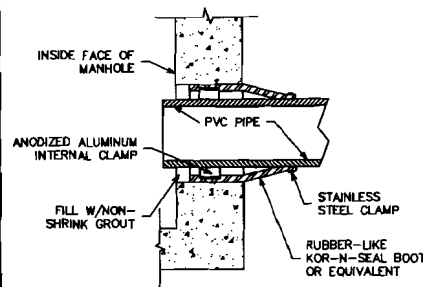




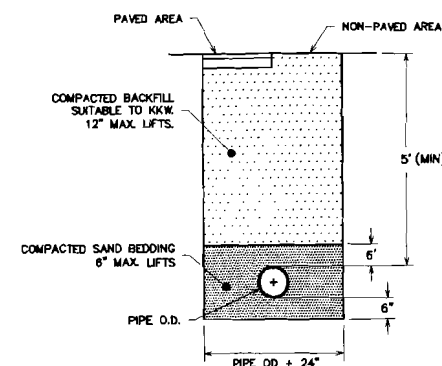
STANDARD COVER AND FRAME  
SCALE: NTS



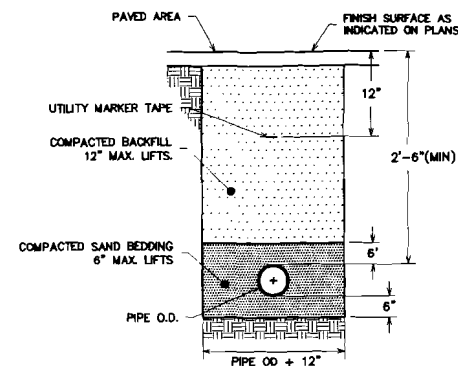
TYPICAL SANITARY MANHOLE  
SCALE: NTS



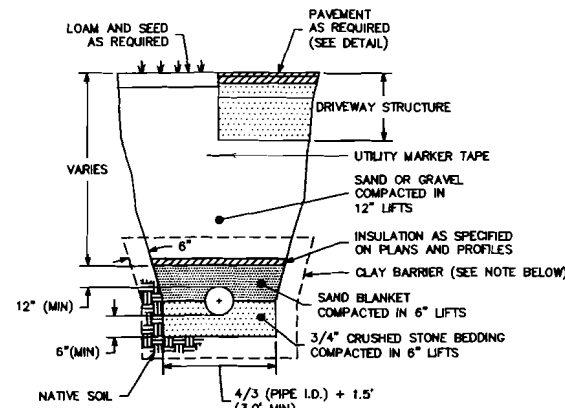
TYPICAL BOOT GASKET  
SCALE: NTS



WATER LINE TRENCH DETAIL  
(NTS)

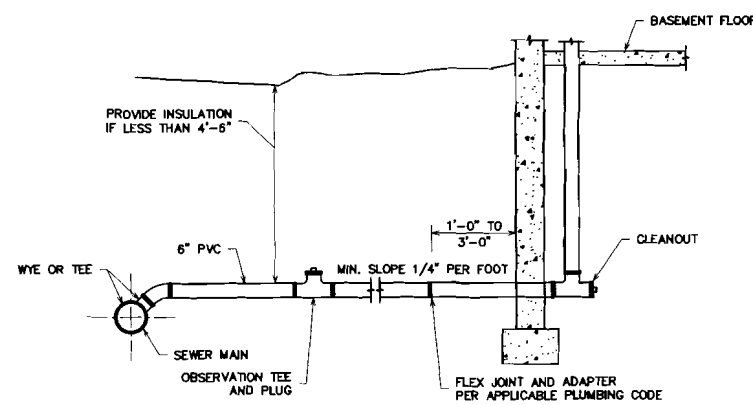


UTILITY CONDUIT TRENCH DETAIL  
(NTS)



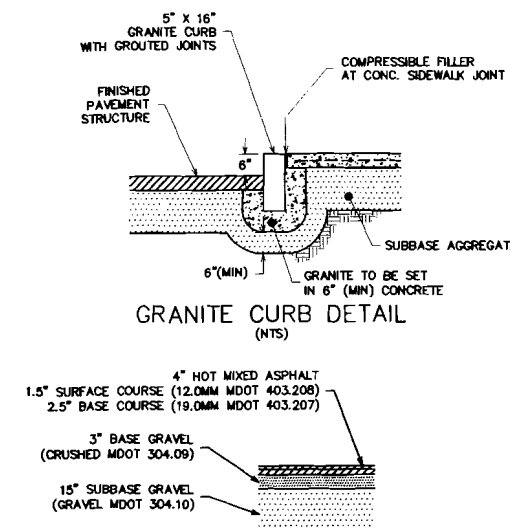
SEWER PIPE TRENCH DETAIL  
SCALE: NTS

TRENCH TO BE SUPPORTED BY SLOPING BACK AT 2:1 OR OTHER ACCEPTABLE METHOD.  
CLAY BARRIERS (12" THICK, APPROX. 100' INTERVALS) ALONG THE PIPE BEDDING SHALL BE INSTALLED IN AREAS OF HIGH GROUNDWATER OR AS DIRECTED BY THE INSPECTING ENGINEER.

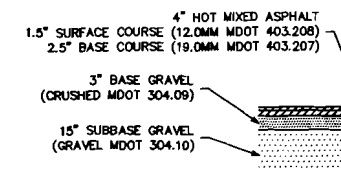


TYPICAL SERVICE CONNECTION AND LATERAL DETAIL  
SCALE: NTS

NOTE: SEWER MAY BE LOCATED BENEATH BASEMENT FLOOR

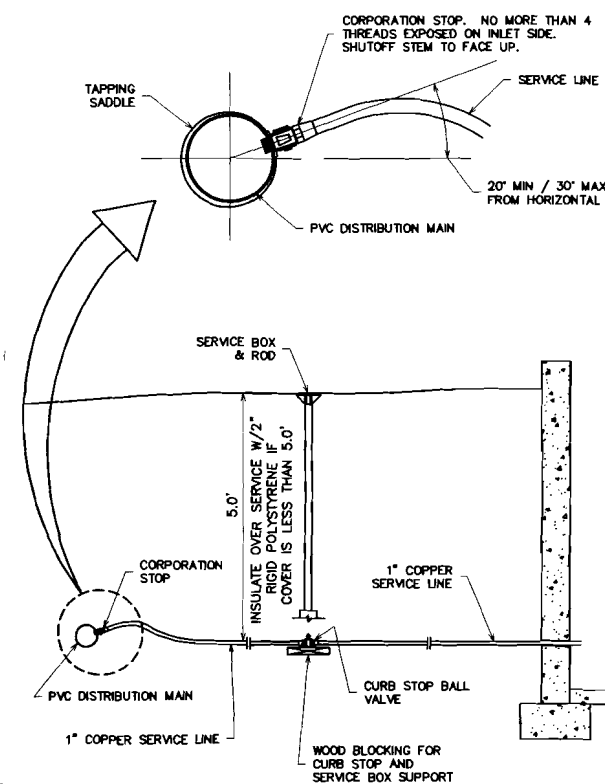


GRANITE CURB DETAIL  
(NTS)



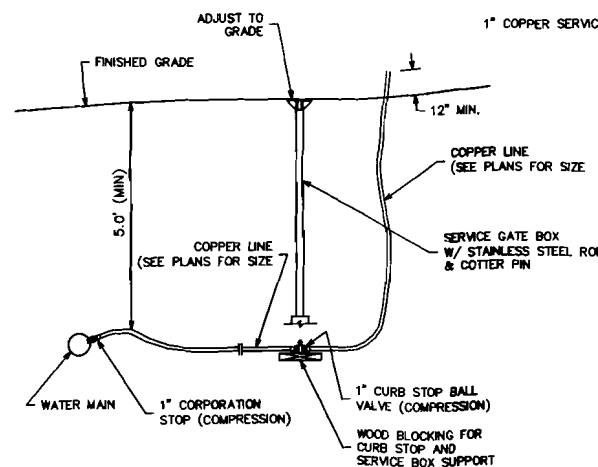
PAVEMENT CROSS-SECTION  
ROADS AND DRIVEWAYS  
(NTS)

GRAVEL FILL TO BE COMPACTED TO 95% MODIFIED PROCTOR

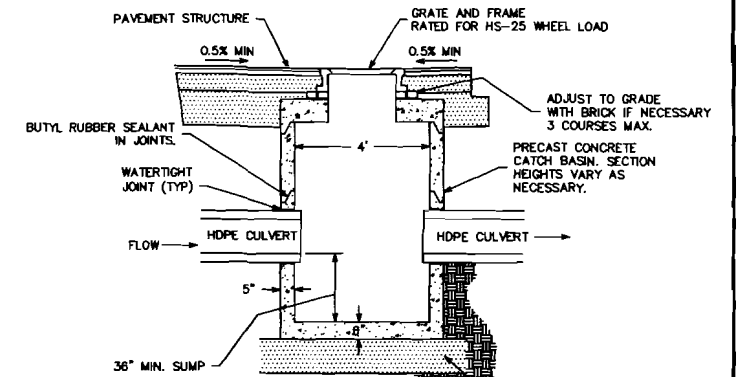


WATER SERVICE DETAIL  
(NTS)

CONTRACTOR TO COORDINATE WITH WATER DISTRICT ON LOCATION OF CURB STOPS

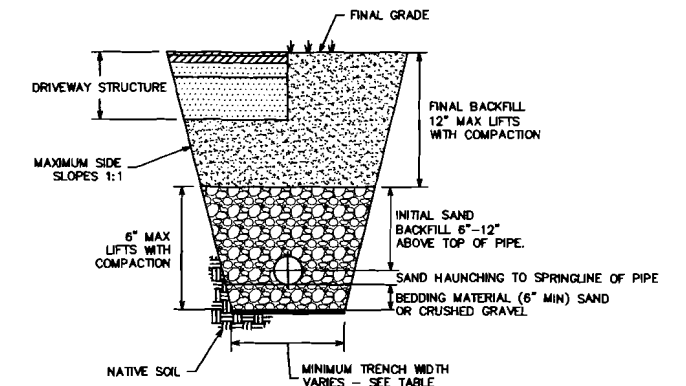


WATER BLOWOFF ASSEMBLY DETAIL  
(NTS)



TYPICAL CATCH BASIN  
(NTS)

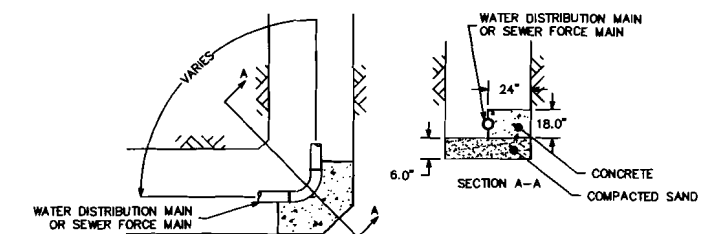
CATCH BASINS ARE TO BE PRECAST CONCRETE CONSTRUCTION MEETING THE REQUIREMENTS OF ASTM DESIGNATION C478 OR PRECAST CONCRETE MANHOLE BLOCK CONSTRUCTION MEETING THE REQUIREMENTS OF ASTM C136, RADIAL TYPE, METAL FRAMES AND TRAPS MUST BE SET IN A FULL MORTAR BED WITH TOPS TO CONFORM TO THE AASHTO REQUIREMENTS.



HDPE CULVERT TRENCH DETAIL  
(NTS)

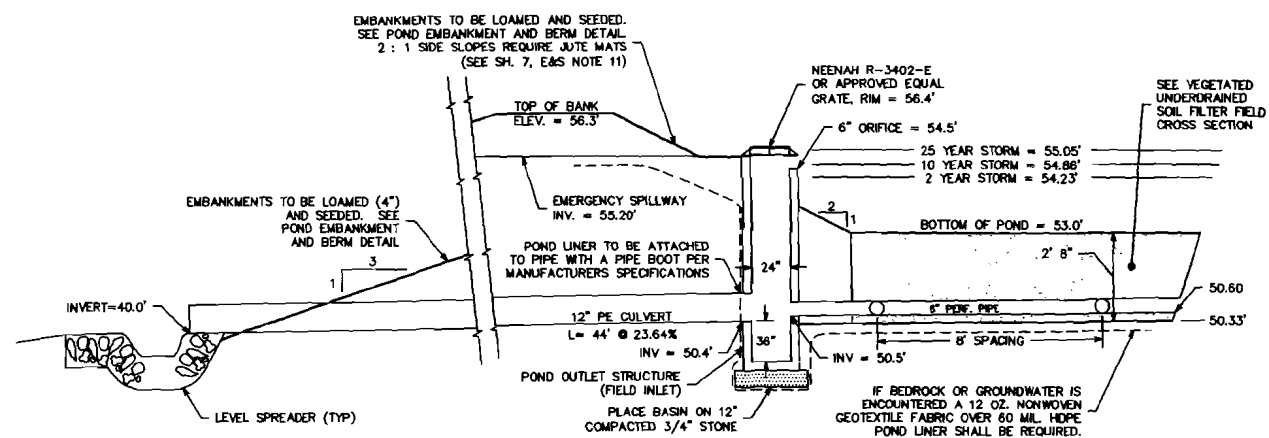
TRENCH TO BE SUPPORTED BY SLOPING BACK AT 2:1 OR OTHER ACCEPTABLE METHOD.

NOMINAL DIAMETER (IN)	MIN. TRENCH WIDTH (IN)
4	21
6	23
8	25
10	28
12	31
15	34
18	39
24	48
30	66
36	78
42	83
48	89
60	102

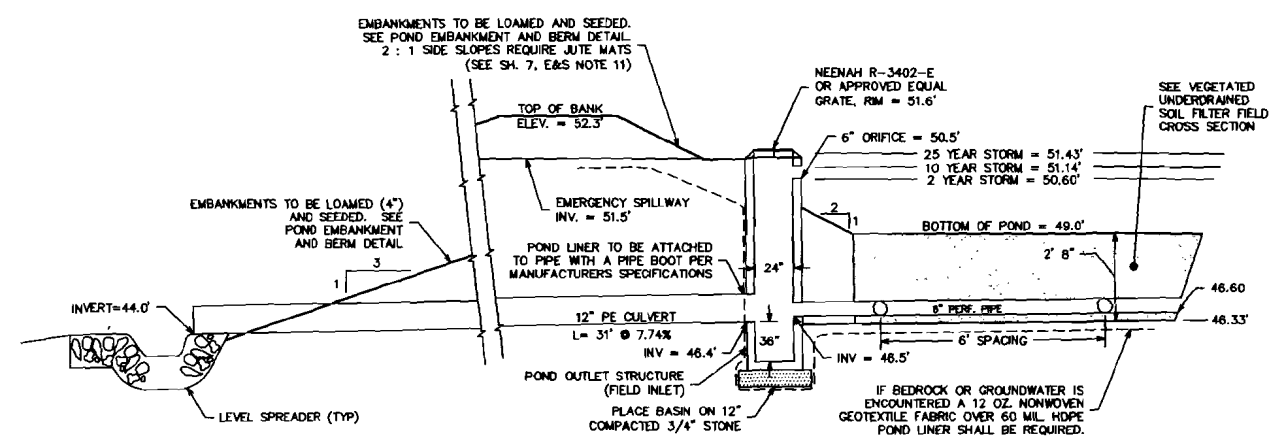


THRUST BLOCK DETAIL  
(NTS)

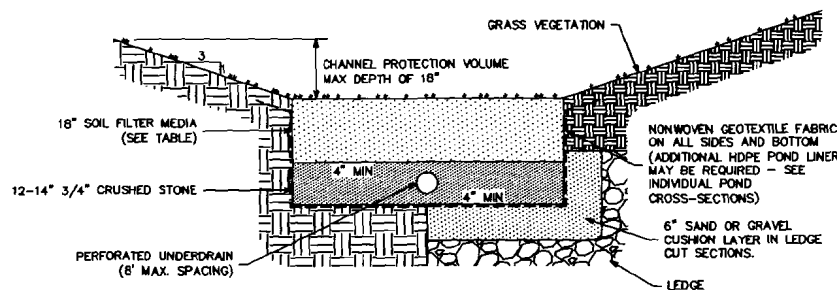
<p><b>SITE DETAILS</b> 144 HUTCHINS DRIVE HUTCHINS DRIVE PORTLAND, MAINE</p>	
<p>FOR: PHOENIX PROPERTY SERVICES PO BOX 759 SACO, ME 04072-5118</p>	
<p><b>ATTAR ENGINEERING, INC.</b> CIVIL • STRUCTURAL • MARINE 128 STATE ROAD - ELIOT, MAINE 03903 PHONE: (207) 439-6023 FAX: (207) 439-2128</p>	
<p>SCALE: AS NOTED</p>	<p>APPROVED BY: _____</p>
<p>DATE: 06/17/11</p>	<p>REVISION : DATE B : 09/16/11</p>
<p>JOB NO: C010-11</p>	<p>CAD FILE: HUTCHINS DET</p>
<p>SHEET 3 OF</p>	



CROSS-SECTION 10 (UNDERDRAIN SOIL FILTER POND) (SEE SH. 2 FOR PLAN VIEW) (NTS)



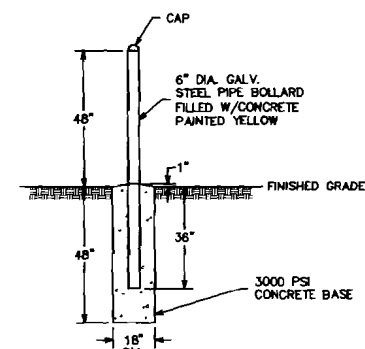
CROSS-SECTION 20 (UNDERDRAIN SOIL FILTER POND) (SEE SH. 2 FOR PLAN VIEW) (NTS)



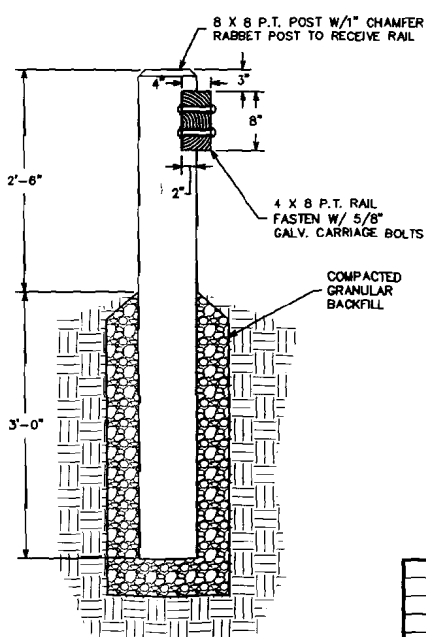
VEGETATED UNDERDRAINED SOIL FILTER FIELD CROSS SECTION (NTS)

#### SOIL FILTER MEDIA NOTE:

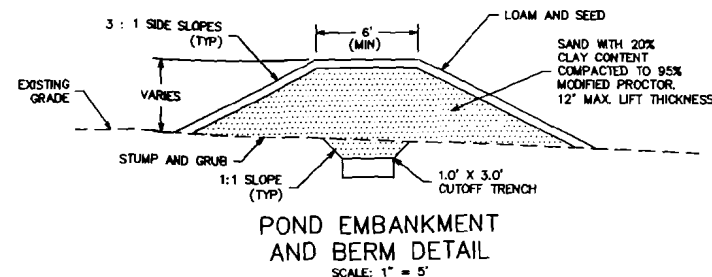
THE SOIL FILTER MEDIA SHALL CONSIST OF A SILTY SAND OR SOIL MIXTURE COMBINED WITH 20% - 25% FINE SHREDDED BARK OR WOOD FIBER MULCH. THE MIXTURE MUST HAVE NO LESS THAN 6% AND NO MORE THAN 10% PASSING THE 200 SEVE. PRIOR TO CONSTRUCTION, THE CONTRACTOR MUST CHECK WITH THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION FOR UPDATED SOIL FILTER MEDIA SPECIFICATIONS.



PROTECTIVE BOLLARD DETAIL (NTS)

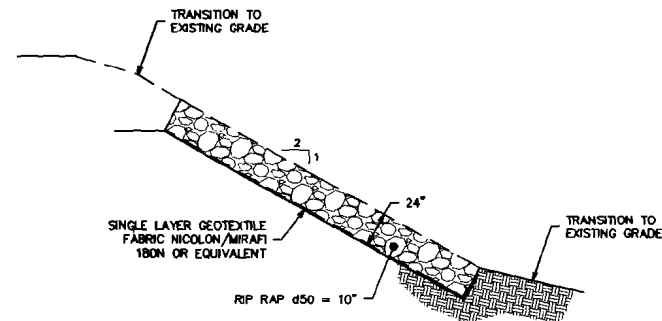


TIMBER GUARDRAIL DETAIL (NTS)  
MAXIMUM POST SPACING SHALL BE 6'.

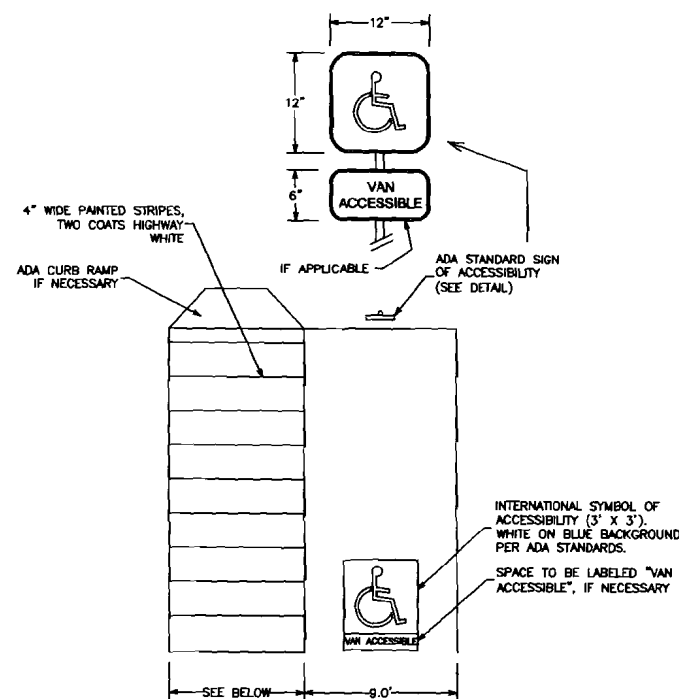


#### EMBANKMENT CONSTRUCTION NOTES

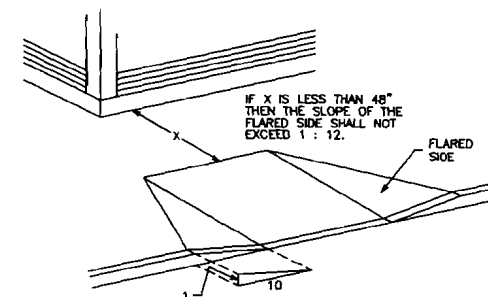
1. ALL ORGANIC MATERIAL, STUMPS, ROCKS AND BOULDERS SHALL BE REMOVED TO A MINIMUM DEPTH OF 24" BELOW SUBGRADE OF THE BASIN EMBANKMENT. ALL EXCAVATIONS BELOW THE BASIN EMBANKMENT SHALL HAVE A MINIMUM SLOPE OF 1H:1V.
2. ALL BASIN EMBANKMENT FILL MATERIAL SHALL BE SAND WITH 20% CLAY CONTENT. EMBANKMENT FILL SHALL BE PLACED IN 12" (MAX.) LIFTS AND BE COMPACTED TO 95% MODIFIED PROCTOR. A CUTOFF TRENCH SHALL BE EXCAVATED AS SHOWN PRIOR TO CONSTRUCTION OF EMBANKMENT.
3. DETENTION BASIN AND ALL EXCAVATIONS SHALL BE KEPT FREE OF WATER DURING CONSTRUCTION.
4. EMBANKMENT SIDE SLOPES AND BOTTOM OF DETENTION BASIN SHALL BE LOAMED, SEEDED AND MULCHED IN ACCORDANCE WITH THE EROSION AND SEDIMENTATION CONTROL NOTES.



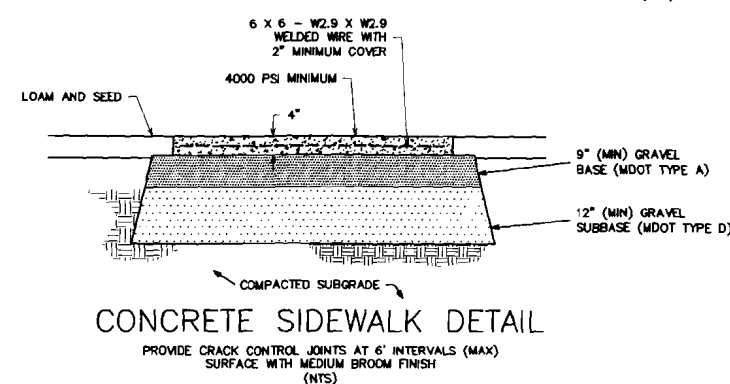
RIP RAP SLOPE DETAIL (NTS)



ACCESSIBLE PARKING SPACE DETAIL  
SIDE SHALL BE 5' WIDE FOR AUTOMOBILES OR 8' WIDE FOR VANS (NTS)



ADA CURB RAMP WITH FLARED SIDES (NTS)



CONCRETE SIDEWALK DETAIL  
PROVIDE CRACK CONTROL JOINTS AT 6' INTERVALS (MAX) SURFACE WITH MEDIUM BROOM FINISH (NTS)

SITE DETAILS  
144 HUTCHINS DRIVE  
HUTCHINS DRIVE PORTLAND, MAINE

FOR: PHOENIX PROPERTY SERVICES  
PO BOX 759  
SACO, ME 04072-5118  
**ATTAR ENGINEERING, INC.**  
CIVIL • STRUCTURAL • MARINE  
128 STATE ROAD - ELIOT, MAINE 03903  
PHONE: (207) 439-8023 FAX: (207) 439-2128

SCALE: AS NOTED  
DATE: 06/17/11  
JOB NO: C010-11  
APPROVED BY: [Signature]  
DRAWN BY: CLS  
REVISION: DATE  
8: 09/16/11  
CAD FILE: HUTCHINS DET  
SHEET 4 OF 7

NO.	REVISIONS	DATE
B.	REVIEW COMMENTS	08/16/11
A.	REVIEW COMMENTS	08/03/11
NO.	DESCRIPTION	DATE



1. SILTATION FENCE OR HAY BALE BARRIERS WILL BE INSTALLED DOWNSLOPE OF ALL STRIPPING OR CONSTRUCTION OPERATIONS. A DOUBLE SILT FENCE BARRIER SHALL BE INSTALLED DOWNSLOPE OF ANY SOIL MATERIAL STOCKPILES. SILT FENCES SHALL BE INSPECTED AFTER EACH RAIN EVENT AND DAILY DURING PROLONGED RAIN. SILT AND SOIL PARTICLES ACCUMULATING BEHIND THE FENCE SHALL BE REMOVED AFTER EACH SIGNIFICANT RAIN EVENT AND IN NO INSTANCE SHOULD ACCUMULATION EXCEED 1/2 THE HEIGHT OF THE FENCE. TORN OR DAMAGED AREAS SHALL BE REPAIRED.

2. TEMPORARY AND PERMANENT VEGETATION AND MULCHING IS AN INTEGRAL COMPONENT OF THE EROSION AND SEDIMENTATION CONTROL PLAN. ALL AREAS SHALL BE INSPECTED AND MAINTAINED UNTIL THE DESIRED VEGETATIVE COVER IS ESTABLISHED. THESE CONTROL MEASURES ARE ESSENTIAL TO EROSION PREVENTION AND ALSO REDUCE COSTLY REWORK OF GRADED AND SHAPED AREAS.

3. SEEDING, FERTILIZER AND LIME RATES AND TIME OF APPLICATION WILL BE DEPENDENT ON SOIL REQUIREMENTS. TEMPORARY VEGETATION SHALL BE MAINTAINED IN THESE AREAS UNTIL PERMANENT SEEDING IS APPLIED. ADDITIONALLY, EROSION AND SEDIMENTATION MEASURES SHALL BE MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED.

4. ALL LAWN AREA SHALL BE PERMANENTLY SEED WITH THE FOLLOWING MIXTURE: 20 LB/ACRE KENTUCKY BLUEGRASS, 20 LB/ACRE CREeping BERMUDA AND 5 LB/ACRE PERENNIAL RYE GRASS FOR A TOTAL OF 45 LB/ACRE. FERTILIZER AND LIME RATES SHALL BE DEPENDENT ON SOIL TESTING IN THE ABSENCE OF SOIL TESTS, FERTILIZE WITH 10-20-20 (N-P205-K201) AT 800 LB/ACRE AND LIME AT 3 TONS/ACRE. MULCH WITH HAY AT 70-90 LB/1000 S.F. 4" OF LOAM SHALL BE APPLIED PRIOR TO SEEDING.

5. ALL DRAINAGE SWALES, POND EMBANKMENTS AND CROSSING EMBANKMENTS SHALL BE SEEDDED WITH A MIXTURE OF CREEPING RED FESCUE, REDTOP AND TALL FESCUE. THE MIXTURE SHALL CONTAIN 20 LB/ACRE CREEPING RED FESCUE, 2 LB/ACRE REDTOP AND 20 LB/ACRE TALL FESCUE. SEE THE ABOVE NOTE FOR FERTILIZER, LIME AND MULCHING RATES.

6. TEMPORARY VEGETATION OF ALL DISTURBED AREAS, MATERIAL STOCKPILES AND OTHER SUCH AREAS SHALL BE ESTABLISHED BY SEEDING WITH EITHER WINTER RYE AT A RATE OF 112 LB/ACRE OR ANNUAL RYEGRASS AT A RATE OF 40 LB/ACRE. WINTER RYE SHALL BE USED FOR FALL SEEDING AND ANNUAL RYEGRASS FOR SHORT DURATION SEEDING. SEEDING SHALL BE ACCOMPLISHED BEFORE OCTOBER 1.

7. TEMPORARY SEEDING OF DISTURBED AREAS SHALL BE ACCOMPLISHED BEFORE OCTOBER 1. PERMANENT SEEDING SHALL BE ACCOMPLISHED BEFORE SEPTEMBER 15.

8. ALL SEEDED AREAS SHALL BE MULCHED WITH HAY AT A RATE OF 2 BALES (70-90 LB) PER 1000 S.F. OF SEEDED AREA.

9. ALL DISTURBED AREAS ON THE SITE SHALL BE PERMANENTLY STABILIZED WITHIN 7 DAYS OF FINAL GRADING OR TEMPORARILY STABILIZED WITHIN 30 DAYS OF INITIAL DISTURBANCE.

10. A STABILIZED CONSTRUCTION ENTRANCE SHALL BE INSTALLED AT ALL ACCESSES TO PUBLIC ROADS (SEE PLAN). TEMPORARY CULVERTS SHALL BE PROVIDED AS REQUIRED.

11. SLOPES 2:1 OR STEEPER SHALL BE TREATED WITH POLYJUTE OPEN WEAVE GEOTEXTILE (OR EQUIVALENT) AFTER SEEDING. JUTE MATS SHALL BE ANCHORED PER MANUFACTURER'S SPECIFICATIONS.

12. EXCESSIVE DUST CAUSED BY CONSTRUCTION OPERATIONS SHALL BE CONTROLLED BY APPLICATION OF WATER OR CALCIUM CHLORIDE.

13. THE CONTRACTOR MAY OPT TO USE EROSION CONTROL MIX BERM AS A SEDIMENT BARRIER IN LIEU OF SILTATION FENCE OR HAY BALE BARRIERS WITH APPROVAL FROM THE INSPECTING ENGINEER.

1. SPILL PREVENTION. CONTROLS MUST BE USED TO PREVENT POLLUTANTS FROM BEING DISCHARGED FROM MATERIALS ON SITE, INCLUDING STORAGE PRACTICES TO MINIMIZE EXPOSURE OF THE MATERIALS TO STORMWATER, AND APPROPRIATE SPILL PREVENTION, CONTAINMENT, AND RESPONSE PLANNING AND IMPLEMENTATION.

2. GROUNDWATER PROTECTION. DURING CONSTRUCTION, LIQUID PETROLEUM PRODUCTS AND OTHER HAZARDOUS MATERIALS WITH THE POTENTIAL TO CONTAMINATE GROUNDWATER MAY NOT BE STORED OR HANDLED IN AREAS OF THE SITE DRAINING TO AN INFILTRATION AREA. AN "INFILTRATION AREA" IS ANY AREA OF THE SITE THAT BY DESIGN OR AS A RESULT OF SOILS, TOPOGRAPHY AND OTHER RELEVANT FACTORS ACCUMULATES RUNOFF THAT INFILTRATES INTO THE GROUND SURFACE OR INTO OTHER FORMS OF SECONDARY CONTAMINANT THAT PREVENT DISCHARGE TO GROUNDWATER MAY BE USED TO ISOLATE PORTIONS OF THE SITE FOR THE PURPOSES OF STORAGE AND HANDLING OF THESE MATERIALS.

3. FUGITIVE SEDIMENT AND DUST. ACTIONS MUST BE TAKEN TO ENSURE THAT ACTIVITIES DO NOT RESULT IN NOTICEABLE EROSION OF SOILS OR FUGITIVE DUST EMISSIONS DURING OR AFTER CONSTRUCTION. OIL MAY NOT BE USED FOR DUST CONTROL.

4. DEBRIS AND OTHER MATERIALS. LITTER, CONSTRUCTION DEBRIS, AND CHEMICALS EXPOSED TO STORMWATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE.

5. TRENCH OR FOUNDATION DE-WATERING. TRENCH DE-WATERING IS THE REMOVAL OF WATER FROM TRENCHES, FOUNDATIONS, COFFER DAMS, PONDS, AND OTHER AREAS WITHIN THE CONSTRUCTION AREA THAT RETAIN WATER AFTER EXCAVATION. IN MOST CASES THE COLLECTED WATER IS HEAVILY SILTED AND HINDERS CORRECT AND SAFE CONSTRUCTION PRACTICES. THE COLLECTED WATER MUST BE REMOVED FROM THE PONDED AREA, EITHER THROUGH GRAVITY OR PUMPING, AND MUST BE SPREAD THROUGH NATURAL WOODED BUFFERS OR REMOVED TO AREAS THAT ARE SPECIFICALLY DESIGNED TO COLLECT THE MAXIMUM AMOUNT OF SEDIMENT POSSIBLE, LIKE A COFFERDAM SEDIMENTATION BASIN. AVOID ALLOWING THE WATER TO FLOW OVER DISTURBED AREAS OF THE SITE. EQUIVALENT MEASURES MAY BE TAKEN IF APPROVED BY THE DEPARTMENT.

6. NON-STORMWATER DISCHARGES. IDENTIFY AND PREVENT CONTAMINATION BY NON-STORMWATER DISCHARGES. LOCATING AND PROTECTING ANY UNDERGROUND OR ABOVE GROUND UTILITY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

1. DRIVEWAYS TO BE CONSTRUCTED IN ACCORDANCE WITH THE APPROPRIATE CROSS SECTION DETAIL. GRAVEL FILL TO BE COMPACTED TO 95% MODIFIED PROCTOR IN ACCORDANCE WITH ASTM D 1557. LIFT THICKNESSES TO BE A MAXIMUM OF 6".

2. ALL STUMPS, ORGANIC MATERIAL, ROCKS AND BOULDERS TO BE REMOVED TO A MINIMUM DEPTH OF 24" BELOW SUBBASE.

3. ALL STUMPS, LEDGE AND LARGE BOULDERS TO BE REMOVED FROM THE CONSTRUCTION AREA. THE CONSTRUCTION AREA SHALL BE CLEARED AND ROUGH GRADED.

4. ALL CULVERTS TO BE ADS N-12 (HDPE) OR APPROVED EQUAL. CULVERT INLETS AND OUTLETS TO BE PROTECTED IN ACCORDANCE WITH THE CULVERT INLET/OUTLET PROTECTION DETAIL.

5. THE CONTRACTOR MUST CONTACT DIG SAFE AND ALL LOCAL UTILITIES PRIOR TO THE START OF CONSTRUCTION TO VERIFY THE LOCATION OF EXISTING SUBSURFACE UTILITIES AND CONDITIONS. LOCATING AND PROTECTING ANY UNDERGROUND OR ABOVE GROUND UTILITY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

## NOVEMBER 1 - APRIL 15

1. EXPOSED AREAS SHOULD BE LIMITED TO AN AREA THAT CAN BE MULCHED IN ONE DAY PRIOR TO ANY SNOW EVENT.

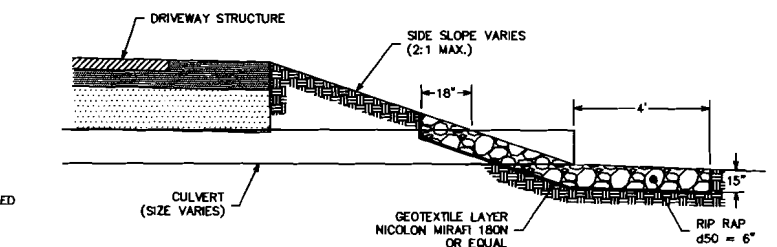
2. AN AREA SHALL BE CONSIDERED STABILIZED WHEN EXPOSED SURFACES HAVE BEEN EITHER MULCHED WITH HAY AT A RATE OF 100 LB/1000 S.F. OR DORMANT SEEDS, MULCHED AND ADEQUATELY ANCHORED BY AN APPROVED ANCHORING TECHNIQUE. IN ALL CASES, MULCH SHALL BE APPLIED SO THAT THE SOIL SURFACE IS NOT VISIBLE THROUGH THE MULCH.

3. FROM TEMPERATURES 15 TO 40° F., LOAM AND SEED WILL NOT BE REQUIRED. DURING PERIODS OF TEMPERATURES ABOVE FREEZING, DISTURBED AREAS SHALL BE FINE GRADED AND PROTECTED WITH MULCH OR TEMPORARILY SEEDED AND MULCHED UNTIL PERMANENT SEEDING CAN BE APPLIED. AFTER NOVEMBER 1, DISTURBED AREAS MAY BE LOAMED, FINE GRADED AND DORMANT SEEDED AT A RATE 200-300% HIGHER THAN THE SPECIFIED PERMANENT SEEDING RATE. IF CONSTRUCTION CONTINUES DURING FREEZING WEATHER, DISTURBED AREAS SHALL BE LOAMED, FINE GRADED AND TEMPORARILY STABILIZED WITH MULCH. DISTURBED AREAS SHALL NOT BE LEFT OVER THE WINTER OR FOR ANY OTHER EXTENDED PERIOD OF TIME UNLESS STABILIZED WITH MULCH.

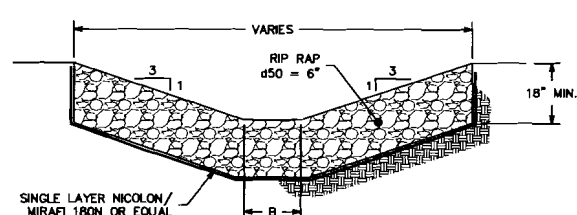
4. FROM NOVEMBER 1 TO APRIL 15 ALL MULCH SHALL BE ANCHORED BY EITHER PEG LINE, MULCH NETTING, ASPHALT EMULSION CHEMICAL, TRACK OR WOOD CELLULOSE FIBER. MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL DRAINAGE WAYS WITH SLOPES GREATER THAN 3%. SLOPES EXPOSED TO DIRECT WINDS AND FOR SLOPES GREATER THAN 8%. MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL AREAS WITH SLOPES GREATER THAN 15%. AFTER OCTOBER 1, THE SAME APPLIES TO ALL SLOPES GREATER THAN 8%.

5. DURING WINTER CONSTRUCTION, DORMANT SEEDING OR MULCH AND ANCHORING SHALL BE APPLIED TO ALL DISTURBED AREAS AT THE END OF EACH WORKING DAY.

6. SNOW SHALL BE REMOVED FROM AREAS OF SEEDING AND MULCHING PRIOR TO PLACEMENT.

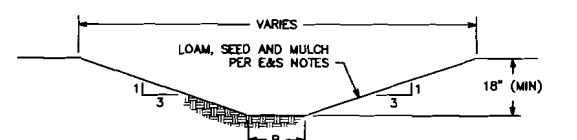


(NOTE)



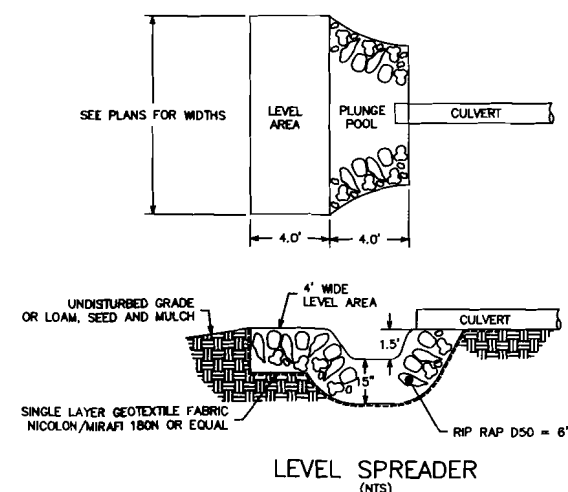
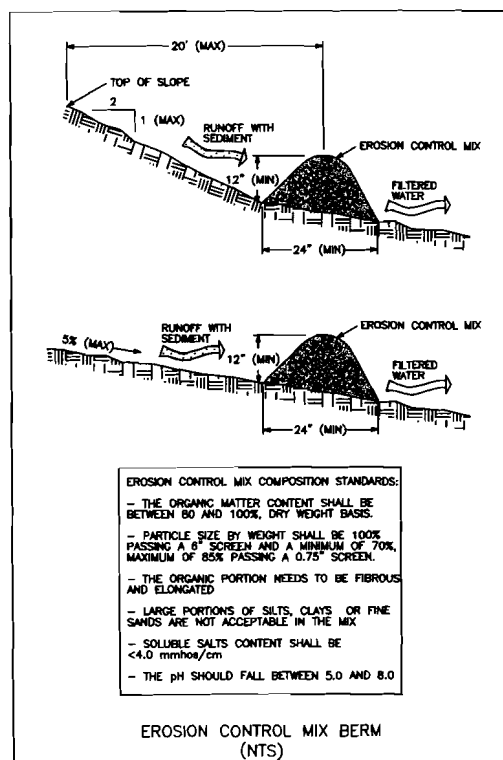
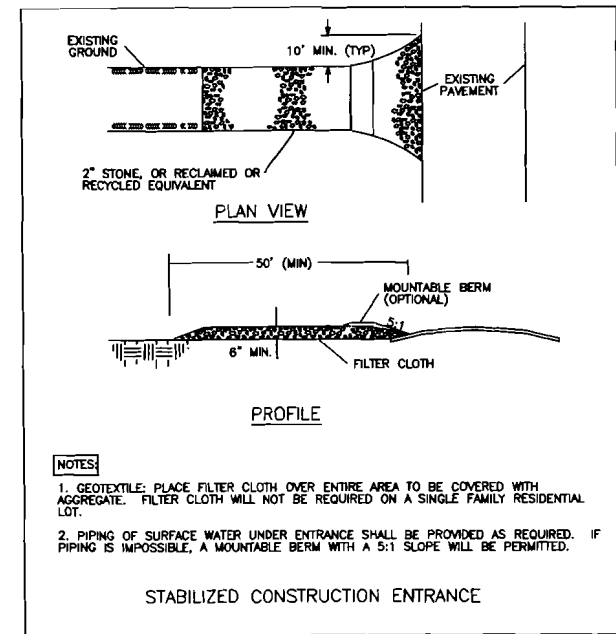
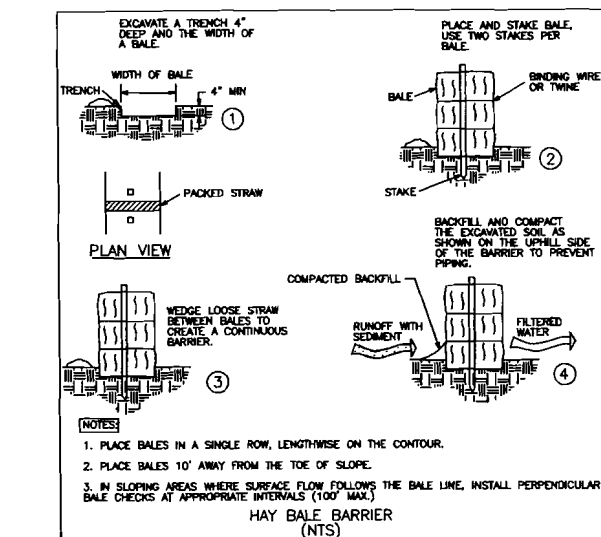
## NTS

B (BOTTOM WIDTH) SHALL BE 2' FOR TYPE 1 SWALES AND 5' FOR TYPE 2 SWALES.




## NTS

B (BOTTOM WIDTH) SHALL BE 2' FOR TYPE 1 SWALES AND 5' FOR TYPE 2 SWALES.



A.	REVIEW COMMENTS	8/3/11
NO.	DESCRIPTION REVISIONS	DATE



SITE DETAILS 144 HUTCHINS DRIVE HUTCHINS DRIVE PORTLAND, MAINE		
FOR:	PHOENIX PROPERTY SERVICES PO BOX 759 SACO, ME 04072-5118	
	<b>ATTAR ENGINEERING, INC.</b> CIVIL ♦ STRUCTURAL ♦ MARINE 128 STATE ROAD - ELIOT, MAINE 03903 PHONE: (207) 439-6023 FAX: (207) 439-2128	
	SCALE:	APPROVED BY:
	AS NOTED	
DATE:		DRAWN BY:
6/17/11		CLS
		REVISION : DATE
		A : 8/3/11
JOB NO: C010-11	CAD FILE: HUTCHINS DET	SHEET 5 OF 7

This project has been designed and fabricated in accordance with the following:

1. DESCRIPTION

Owner's Name and Address: PHOENIX PROPERTY SERVICES  
144 HUTCHINS RD. PORTLAND, ME. 4101  
THE AUTUMN BREEZE GROUP  
P.O. BOX 94 FAIRLEE, VT. 05045  
Building Supplier's Name and Address: BRITESPAN BUILDING SYSTEMS INC.  
37851 AMBERLEY ROAD LUCKNOW, ON, NOG 2H0  
Manufacturer's Name and Address: PHOENIX PROPERTY SERVICES  
144 HUTCHINS RD. PORTLAND, ME. 4101  
PHOENIX PROPERTY SERVICES  
144 HUTCHINS RD.  
PORTLAND, ME.  
4101  
Site Location:  
Legal Address:  
Building Type: ATLAS 18  
Building Size: 40' x 48' @ 12' o.c. (12,192 sq ft @ 3.658 sq m) (1,920 sq ft)  
Applicable Building Code: INTERNATIONAL BUILDING CODE 2009  
Intended Use and Occupancy: SAND / SALT STORAGE  
Construction Type: COMMERCIAL  
Fabric Type: NON-FR

2. DESIGN STANDARDS

International Building Code 2009 (IBC 2009), Chapter 16: Structural Design  
ANSI/AISC 360-05, Specification for Structural Steel Buildings  
AISI-Truss, North American Specification for the Design of Cold-Formed Steel Structural Members  
NFPA 701, Standard Methods of Fire Tests for Flame Propagation of Textiles and Films, 2009 Edition

3. MANUFACTURING STANDARDS

Fabrication in accordance with ANSI/AISC 360-05 and AISI-Truss, as applicable.  
Welding in accordance with AWS D1.3 Structural Welding Code and AISI-Truss, as applicable.  
Britespan Building Systems Inc. is a AWS approved fabricator as per BS-17 and OC17 standards.  
Welders have been qualified in accordance with QC7-93.

4. DESIGN CRITERIA

Occupancy Category: F3-Low Hazard  
Exposure Category: Exposure C (NON COASTAL) - EXPOSED  
Enclosure Category: PARTIALLY ENCLOSED

A) DEAD LOADS

1) Self-weight of Building Components  
2) Collateral (hanging) load, not to exceed 0.25 psf as an allowance for mechanical, electrical ceiling, sprinklers, etc, or any combination thereof.

B) LIVE LOADS

Live Loads determined in accordance with section 1607 of IBC 2009  
Minimum roof live load. 12.0 psf

C) SNOW LOADS

Snow loads determined in accordance with section 1608 of IBC 2009  
Ground Snow Load,  $P_g$  (1/50) 50.0 psf  
Roof Snow Load,  $P_f$  50.0 psf  
Exposure Factor,  $C_e$  0.9  
Thermal Factor,  $C_t$  1.2  
Importance Factor,  $I_s$  0.8

D) WIND LOADS

Wind loads determined in accordance with section 1609 of IBC 2009  
Wind Speed (3-sec Gust) 100 mph  
Basic Wind Pressure,  $q$  22.04 psf  
Exposure Coefficient,  $K_z$  0.96  
Topographic Factor,  $K_{zt}$  1.00  
Directionality Factor,  $K_d$  0.85  
Importance Factor,  $I_W$  0.67

E) LOAD COMBINATIONS

Load combinations determined in accordance with section 1605 of IBC 2009

5. BASE REACTIONS

Project 3-23 - 40'x 48' Atlas 1800W, 12th chr

PROJECT: Britespan Low Hazard, Partially open, Enclosed C=0.9 Partially Mitig. USA

BASE REACTIONS: MAX FORCES AT THE FOUNDATION. ALL LOADS UNFACTORED. FOR QUOTATION PURPOSES ONLY

LOAD CASE:	SIDE A				SIDE B				
	HORIZONTAL		VERTICAL		HORIZONTAL		VERTICAL		
	$X_1$ (kip)	$X_2$ (kip)	$V_1$ (kip)	$V_2$ (kip)	$X_1$ (kip)	$X_2$ (kip)	$V_1$ (kip)	$V_2$ (kip)	
DEAD	0.27	1.20	←	0.5	2.22	→	0.5	2.22	↓
LIVE	2	8.90	←	3.8	16.90	→	2	8.90	↓
SNOW	4.18	18.58	←	6.1	27.13	→	6.1	27.13	↓
SNOW UNBALANCE	2.15	9.55	←	1.85	7.34	→	2.15	9.55	↓
WIND CASE 1	-5.15	-22.61	→	-5.4	-24.02	→	5.3	18.23	←
WIND CASE 2	-3.1	-9.34	→	-4.5	-28.91	→	2.1	9.34	←

NOTE:

Negative values of Y reactions indicate uplift forces.

Sign convention for the base reaction in positive direction:



GENERAL

THIS DRAWING INCLUDES INFORMATION HEREON, REMAINS THE PROPERTY OF BRITESPAN BUILDING SYSTEMS, INC. IT IS PROVIDED SOLELY FOR ERECTING THE BUILDING DESCRIBED IN THE SALES ORDER AND SHALL NOT BE MODIFIED, REPRODUCED OR USED FOR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN APPROVAL OF BRITESPAN BUILDING SYSTEMS, INC.

THE GENERAL CONTRACTOR AND/OR ERECTOR IS SOLELY RESPONSIBLE FOR ACCURATE, GOOD QUALITY WORKMANSHIP IN ERECTING THIS BUILDING IN CONFORMANCE WITH THIS DRAWING, DETAILS REFERENCED IN THIS DRAWING AND INDUSTRY STANDARDS PERTAINING TO PROPER ERECTION INCLUDING THE PROPER USE OF TEMPORARY BRACING.

THIS BUILDING IS NOT DESIGNED TO BE LIFTED AS AN ASSEMBLED UNIT. BRITESPAN BUILDING SYSTEMS, INC. IS NOT RESPONSIBLE FOR LOSSES AND/OR DAMAGE AS A RESULT OF LIFTING THIS BUILDING. IF, HOWEVER, IT HAS BEEN DETERMINED TO LIFT THIS BUILDING, IT IS THE RESPONSIBILITY OF THE PERSON, FIRM OR COMPANY CONTRACTED TO LIFT THE BUILDING TO SECURE THE SERVICES OF A QUALIFIED ENGINEER TO ENSURE THE LIFT DOES NOT DAMAGE THE BUILDING AND TO DETERMINE AND FINALIZE ALL ASPECTS OF THE LIFT INCLUDING ALL PARTS/CONNECTORS TO BE ADDED TO THE BUILDING TO FACILITATE THE LIFT.

BRITESPAN BUILDING SYSTEMS, INC. IS NOT RESPONSIBLE FOR ERRORS, OMISSION OR DAMAGES INCURRED IN THE ERECTION OF THE COMPONENTS SHOWN ON THIS DRAWING, NOR FOR THE INSPECTION OF ERECTED COMPONENTS TO DETERMINE THE SAME.

THIS CERTIFICATION AND ENGINEERING SEAL APPLIES ONLY TO PRODUCTS DESIGNED AND FABRICATED BY BRITESPAN BUILDING SYSTEMS, INC. FOR THE LOADING CONDITIONS DESIGNED ON THESE DRAWINGS.

CONCRETE FOUNDATIONS, STEEL COMPONENTS BY OTHERS AND ERECTION SUPERVISION ARE NOT THE RESPONSIBILITIES OF BRITESPAN BUILDING SYSTEMS, INC. OR THE CERTIFYING ENGINEER. ALL DOORS, WINDOWS AND ROLL-UP CURTAINS MUST BE DESIGNED TO SUPPORT THE SITE WIND LOADING AND ARE RELIED ON TO BE CLOSED IN THE EVENT OF HIGH WINDS.

ANCHOR BOLTS

ANCHOR BOLT DIAMETERS ARE DETERMINED IN ACCORDANCE WITH CSA STANDARD CANC-S16.1 USING  $F_y = 36$  KSI (248 MPa). ANCHOR BOLT LENGTHS AND LOAD TRANSFER TO THE FOUNDATION ARE TO BE DETERMINED BY OTHERS.

ANCHOR BOLT PROJECTIONS BASED ON NO GROUT ARE AS FOLLOWS:

FOUNDATION MUST BE LEVEL, SQUARE AND SMOOTH. ANCHOR BOLTS MUST BE ACCURATELY PLACED AS SHOWN ON THE DRAWINGS.

FINISHED FLOOR ELEVATIONS AND UNDERSIDE OF BASE PLATE SI 100'-0" (1000,000mm) UNLESS NOTED.

ERECTION

THE ERECTION MUST PROVIDE SAFE WORKING CONDITIONS AND PRACTICES CONFORMING TO ALL SAFETY REGULATIONS. ALL THE LIFTING DEVICES ARE TO BE SPECIFICALLY DESIGNED TO LIFT THE VARIOUS BUILDING COMPONENTS. SLINGS AND SPREADER BARS ARE TO BE USED TO PREVENT PERMANENT DEFORMATION OF ALL STRUCTURAL COMPONENTS.

ERECTION SHOULD START AT A BRACED BAY. ERECT AND TEMPORARILY SUPPORT TRUSSES. USE TEMPORARY BRACING AS REQUIRED TO ENSURE STABILITY OF THE FRAMES. INSTALL PURLINS AND CROSS BRACING. PLUMB AND SQUARE TRUSSES IN ACCORDANCE WITH CANC-S16.1 AND OSHA 28 CFR PART 1926 - SAFETY STANDARD FOR STEEL ERECTION.

ENSURE ALL PURLINS REMAIN PARALLEL.

STRUCTURAL FRAMING MEMBERS ARE CONSIDERED PLUMB, LEVEL, AND ALIGNED WHEN THE VARIANCE DOES NOT EXCEED 1:500.

STRUCTURAL BOLTS

BOLTS IN CONNECTIONS NOT SUBJECT TO TENSION LOADS, OR WHERE LOOSENING DUE TO VIBRATION OR LOAD FLUCTUATIONS ARE NOT DESIGN CONSIDERATIONS NEED ONLY BE SNUG TIGHTENED, WHICH IS DEFINED AS THE TIGHTNESS THAT EXISTS WHEN ALL PLIES IN A JOINT ARE IN FIRM CONTACT.

ALL BOLTS LARGER THAN 1" (25mm) DIA. CONFORM TO ASTM A325.  
ALL OTHER DIA HEX BOLTS CONFORM TO SAE GR.5 OR EQUIVALENT.  
ALL BOLTS SHALL BE PLATED / GALVANIZED OR SUNSEAL COATED.  
ALL BOLT REFERENCES REQUIRE BOTH BOLT AND NUT.

BOLTS IN CONNECTIONS NOT SUBJECT TO TENSION LOADS REQUIRE PRE-TENSIONING TO MINIMUM TENSION VALUES AS SHOWN IN THE TABLE BELOW.

TABLE A - BOLT TENSION

SIZE	GRADES		
	in	mm	kip
5/8	16	18	80
3/4	19	28	125
7/8	22	39	174
1 1/8	25	51	227
SIZE A325			
1 1/8	29	56	248
1 1/4	32	74	316

STRUCTURAL BOLT TORQUE VALUES

TABLE B LISTS THE BOLT CLAMP WITH A SUGGESTED ASSEMBLY TORQUE VALUES.

TABLE B - IMPERIAL

DIA. INCH	THREADS PER INCH		TENSILE STRENGTH ksi	PROOF LOAD lbs	CLAMP LOAD lbs	TORQUE DRY 8-12 lbs	TORQUE LUBE 8-12 lbs
	Per Inch	Min					
5/8	16	120	6600	4950	15	23	
7/16	14	120	9050	6700	50	35	
1/2	13	120	12100	9050	75	55	
5/8	11	120	19200	14400	150	110	
3/4	10	120	28400	21300	250	200	
SIZE A325							
1 1/4	7	105	71700	53800	1120	840	

MATERIAL SPECIFICATIONS.

ROLLED STRUCTURAL SECTIONS CONFORM TO CSA G40.21-44R (300M).

STRUCTURAL PLATE CONFORMS TO THE FOLLOWING SPECIFICATIONS:

PLATES G40.21 44R G40.21/ASTM A572 GR 44 (300M)  
H.S.S. G40.21 50R G40.21/ASTM A572 GR 50 (350M)

COATINGS OF STRUCTURAL PLATES ARE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM 153.

TRUSSES ARE HOT-DIP GALVANIZED INSIDE AND OUT IN ACCORDANCE ASTM 123.

CHROMATE CONVERSION COATING APPLIED OVER THE HOT-DIP GALVANIZED SURFACE TO PROVIDE ADDITIONAL CORROSION PROTECTION.

PURLINS AND TIE-DOWN PIPE ARE PRE-GALVANIZED.

DIAGONAL BRACE STEEL CABLES EXTRA HIGH STRENGTH PER ASTM A475  
CROSS CABLES - Ø 5/16" (8mm) TYP U7N.

STRUCTURAL COMPONENTS ARE AS FOLLOWS:

2 3/8" (60.325mm) TUBES - 18" (457.2mm) O/D USING Ø 1 1/8" (28.575mm) WEB &  
2 7/8" (73.025mm) PURLINS  
ALL OTHER SIZE/QUANTITIES - MIN YIELD = 55ksi (379MPa).

FABRIC / LINER NOTES

EXTERIOR FABRIC IS AN INTEGRAL PART OF THE STRUCTURAL SYSTEM; REMOVAL OR ALTERATION WITHOUT PRIOR AUTHORIZATION IS PROHIBITED. ALL TEARS MUST BE PATCHED IMMEDIATELY TO AVOID WARRANTY PROBLEMS.

EXTERIOR FABRIC WILL DEFLECT UNDER LOAD, THEREOF ALL BUILDING ACCESSORIES (LIGHTING, HVAC, SPRINKLERS, ETC) MUST BE LOCATED BENEATH THE INNER CORO OF THE TRUSS. ANYTHING ABOVE THIS MUST BE REVIEWED AND APPROVED IN WRITING BY BRITESPAN BUILDING SYSTEMS, INC. SEVERE DAMAGE TO THE BUILDING AND ACCESSORIES MAY RESULT FROM FAILURE TO COMPLY WITH THIS REQUIREMENT.

FABRIC SPECIFICATIONS

ALL POLYETHYLENE MEMBRANES WILL POSSESS THE FOLLOWING MINIMUM SPECIFICATIONS:

PHYSICAL	PROPERTIES	DESCRIPTION
Base SCLM	HDPE 1600 denier yard	High Density Polyethylene.
Coating Thickness	4 mil (95 µm) ea. side	Minimum 4 to 6 mil exterior coating on each side of base SCLM.
Surface Weight	Modified LDPE c/w UV	Modified Low Density Polyethylene coating with UV inhibitors.
Weight	12.5 oz. / sq yd. (410 gm)	Minimum 12.5 oz. / sq yd.
STRENGTH		TEST STANDARD
Grab tensile strength		ASTM D-5034
Tongue tear strength		ASTM D-2261
Strip tensile strength		ASTM D-5035
Millen burst		ASTM D-3706
Thickness		ASTM D-5199
Hydrostatic resistance		ASTM D-751A
Cold crack		ASTM D-2136
% Light transmission		ASTM E-903
UV Weathering		ASTM D-4389
Permittivity		ASTM D-4491

FIRE

Scale Flame Spread  
Drip Flame Spread

TEST STANDARD

ASTM E-84  
CAN/ULC S-102

DRAWING SCHEDULE

REVISIONS

DWG #	DRAWINGS TITLE	REV.	DATE	REV.	DATE
FB-1	COVER PAGE	1	23 NOV 11		
FB-2	BASEPLATE LAYOUT	1	23 NOV 11		
FB-3	PROJECT LAYOUT	1	23 NOV 11		
FB-4	PURLIN LAYOUT	1	23 NOV 11		
FB-5	BRACING LAYOUT	1	23 NOV 11		
EW-1	ENDWALL LAYOUT 1	1	23 NOV 11		
EW-2	ENDWALL LAYOUT 2	1	23 NOV 11		
BD-1	BASEPLATE DETAILS	1	23 NOV 11		
SD-1	STANDARD DETAILS 1	1	23 NOV 11		
SD-2	STANDARD DETAILS 2	1	23 NOV 11		
SD-3	STANDARD DETAILS 3	1	23 NOV 11		
ED-1	ENDWALL DETAILS	1	23 NOV 11		
ED-2	ENDWALL DETAILS	1	23 NOV 11		

ROOF PLAN NOTES

UNLESS NOTED, USE Ø5/8" (16mm) BOLTS FOR PURLIN TO TRUSS, CABLE OR ROD BRACING TO TRUSS AND ANGLES TO TRUSS FOR ALL CONNECTIONS.

CABLE / ROD AND PURLIN BRACING ARE AN INTEGRAL PART OF THE TRUSS STRUCTURAL SYSTEMS AND SHOULD BE PROPERLY INSTALLED PRIOR TO ERECTION OF FABRIC ROOF AND ENDWALL PANELS. REMOVAL OR ALTERATION OF ANY BRACING WITHOUT PRIOR AUTHORIZATION FROM BRITESPAN BUILDING SYSTEMS, INC. IS PROHIBITED.

ELEVATION NOTES

HOLES REQUIRED IN HSS COLUMNS, HEADERS OR PURLINS FOR FRAMED OPENINGS. DOOR OR WINDOW POST CONNECTION TO BE BY ERECTOR.

WALK DOOR, WINDOW AND FRAMED OPENING POSTS TO BE FIELD ANCHORED TO CONCRETE WITH Ø1/2" (13mm) 'HILTI KWIK-BOLTS' OR SIMILAR

MATERIAL STORAGE

GALVANIZED, ALUMINIZED, AND COLORED MATERIALS ARE SUBJECT TO CORROSION AND DISCOLORATION IF THEY ARE IMPROPERLY STORED. SHORT TERM JOB SITE STORAGE OF STEEL COMPONENTS MAY BE TOLERATED, PROVIDED CARE IS TAKEN TO KEEP THE MATERIALS DRY AT ALL TIMES. WHEN TRUSSES ARE TO BE STORED OUTDOORS, THEY SHOULD BE PLACED AT AN ANGLE SUFFICIENT TO PROMOTE GOOD DRAINAGE. IN ADDITION, SEVERAL INCHES OF CLEARANCE MUST BE PROVIDED BETWEEN THE LOWER END AND THE GROUND TO ALLOW VENTILATION.

NOTE: BRITESPAN BUILDING SYSTEMS, INC. WILL NOT BE HELD RESPONSIBLE FOR MATERIALS WHICH ARE IMPROPERLY PROTECTED AFTER DELIVERY.

MANUFACTURING STANDARDS

FABRICATION IS IN ACCORDANCE WITH CAN/CSA-S16.1 AND CAN/CSA-S136, AS APPLICABLE.

BRITESPAN BUILDING SYSTEMS, INC. IS A CMB CERTIFIED DIVISION 2.1 MANUFACTURER OF TRUSSES. ALL WELDS ARE COMPLETED IN SHOP AS PER CMB STANDARD CSA B47.1 AND W58. AS PART OF OUR CMB CERTIFICATION AN INDEPENDENT THIRD PARTY TESTS OUR WELDERS AND PROCEDURES AND AUDITS OUR FACILITIES. THIS CERTIFICATION MEETS WITH AWS D1.1 AND D1.3 CRITERIA.

RECEIVED  
DEC 15 2011  
Dept. of Building Inspections  
City of Portland Maine

**BRITESPAN**  
BUILDING SYSTEMS INC.

37851 Amberley Road  
Lucknow, ON, Canada  
NOG 2H0  
PH: 1-519-528-2922  
FAX: 1-519-528-2890

DEALER: THE AUTUMN BREEZE GROUP  
P.O. BOX 94  
FAIRLEE, VT. 05045

CUSTOMER: PHOENIX PROPERTY SERVICES  
144 HUTCHINS RD.  
PORTLAND, ME. 4101

PROJECT:  
40' x 48' ATLAS 18  
12 o.c.

DETAILER:  
RV

DWG REV  
1

REVISED BY: DESCRIPTION  
PREPARED FOR STRUCTURAL REVIEW

DATE  
23 NOV 11

THIS DRAWING IS PROPERTY OF BRITESPAN BUILDING SYSTEMS INC. ANY REPRODUCTION IN WHOLE OR IN PART WITHOUT THE EXPRESSED WRITTEN CONSENT OF BRITESPAN BUILDING SYSTEMS INC. IS PROHIBITED. THIS DRAWING IS NOT TO SCALE UNLESS OTHERWISE NOTED.

WIDTH-STEEL-FAB-HSS-HSSDROP  
40-320-220-12-0

PROJECT ID:  
40 - PHOENIX

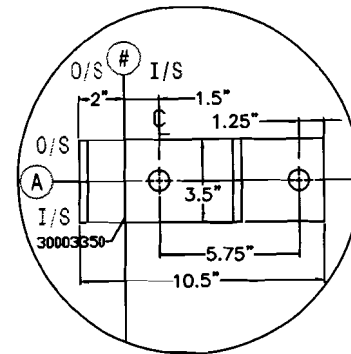
SO/ORDER ID:  
SO#1605

DRAWING:  
FB-1

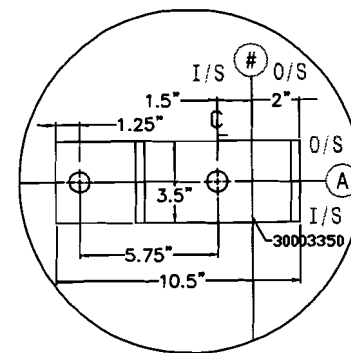
REV:  
1



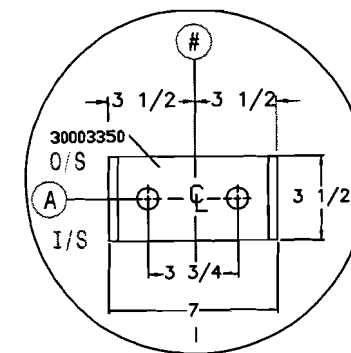
VIEW A



VIEW B

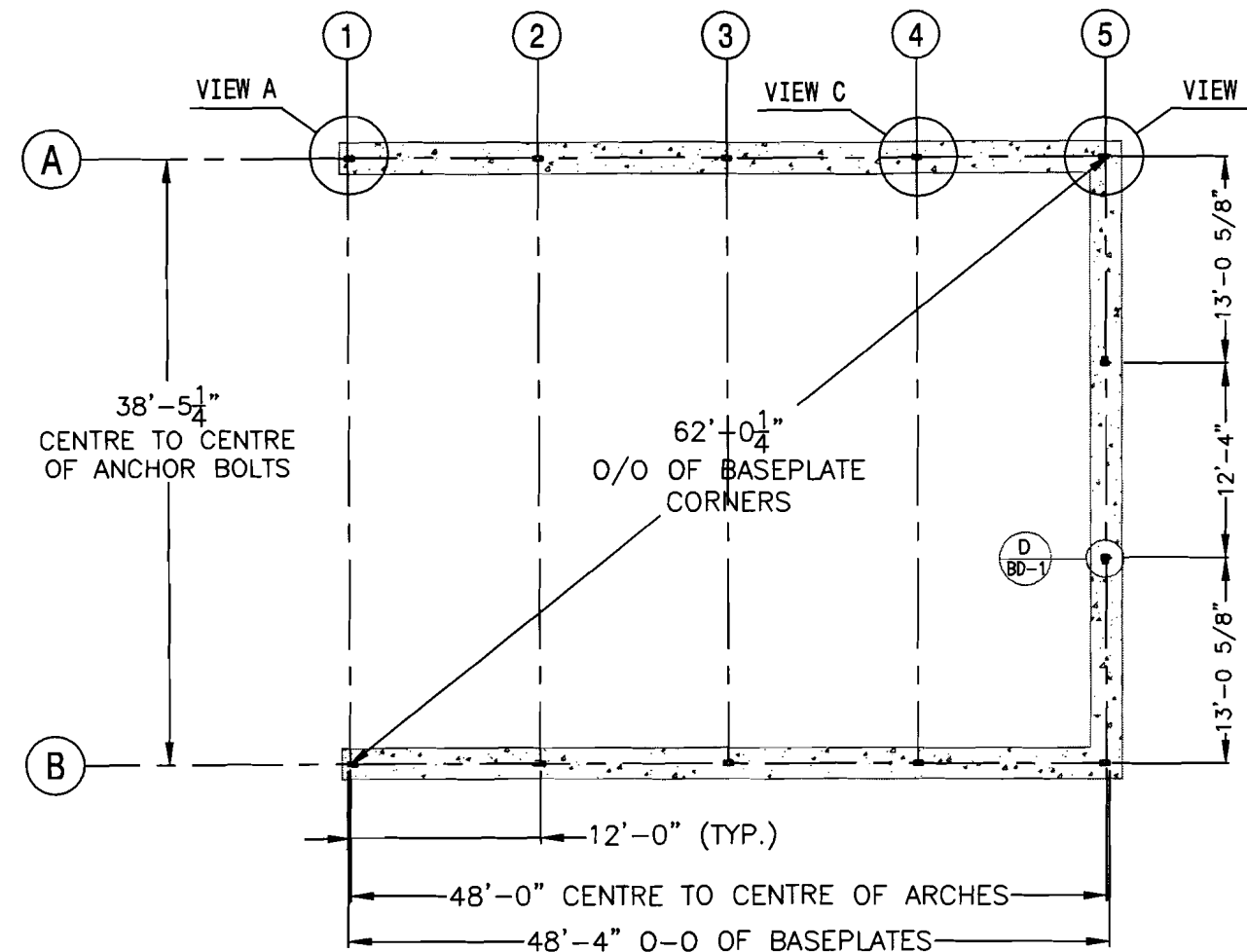


VIEW C



NOTE:

END BASEPLATES ARE OFFSET 1 1/2"



RECEIVED

DEC 15 2011

Dept. of Building Inspections  
City of Portland Maine



37651 Amberley Road  
Lucknow, ON, Canada  
NOG 2H0  
PH: 1-519-528-2922  
FAX: 1-519-528-2890

DEALER  
THE AUTUMN BREEZE GROUP  
P.O. BOX 94  
FAIRLEE, VT. 05045

CUSTOMER:  
PHOENIX PROPERTY SERVICES  
144 HUTCHINS RD  
PORTLAND ME. 4101

PROJECT:  
ATLAS 18  
40' x 48' - 12' o.c.  
320 GM

THIS DRAWING IS PROPERTY OF BRITESPAN BUILDING SYSTEMS INC. ANY REPRODUCTION IN WHOLE OR IN PART WITHOUT THE EXPRESSED WRITTEN CONSENT OF BRITESPAN BUILDING SYSTEMS INC. IS PROHIBITED. THIS DRAWING IS NOT TO SCALE UNLESS OTHERWISE NOTED.

WIDTH-STEEL-FAB-HSS-HSSDROP  
40-320-220-12-0

DRAWING TITLE:  
BASEPLATE LAYOUT

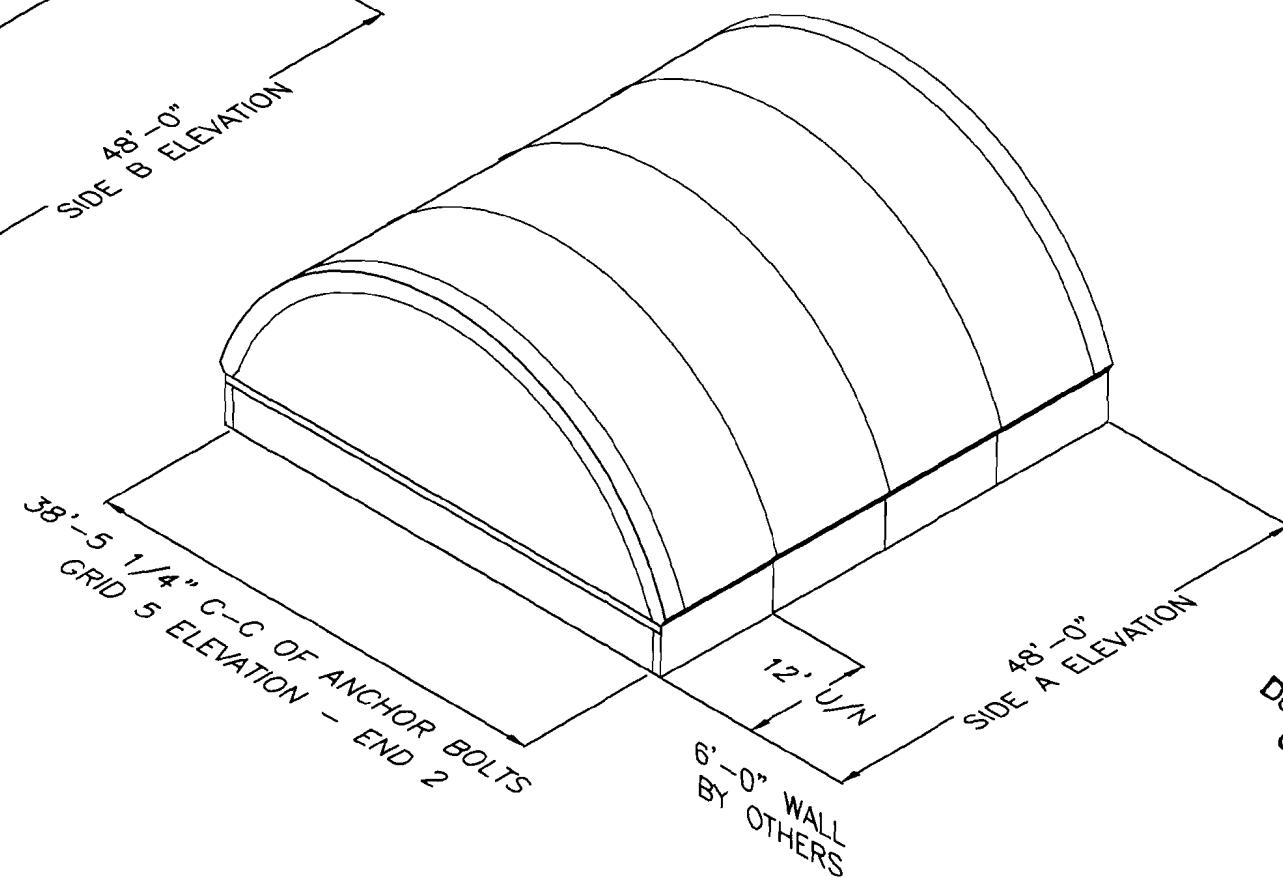
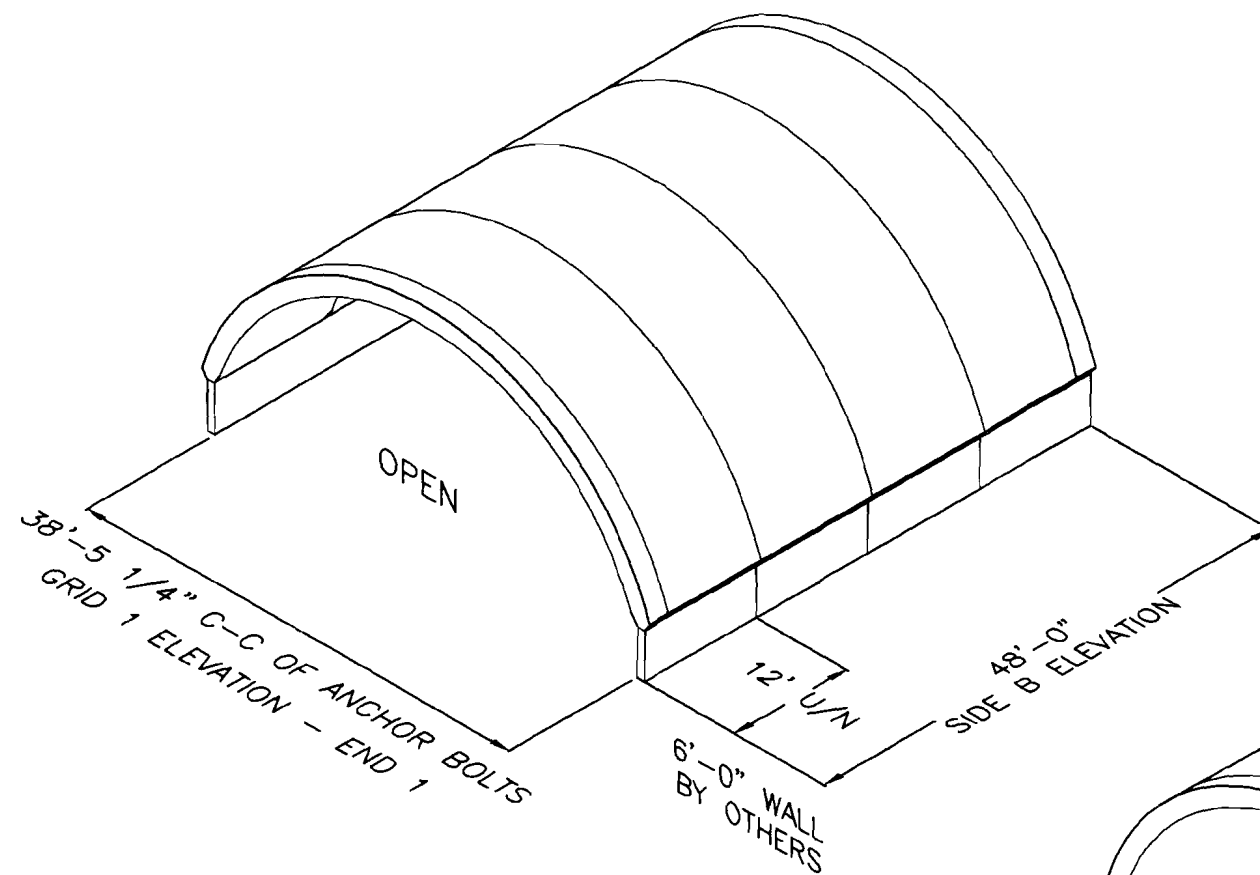
PROJECT ID:  
40 - PHOENIX

SO/ORDER ID:  
S0# 1605

DRAWING:  
FB-2


TAB TITLE:  
002

LICENCED PROFESSIONAL ENGINEER

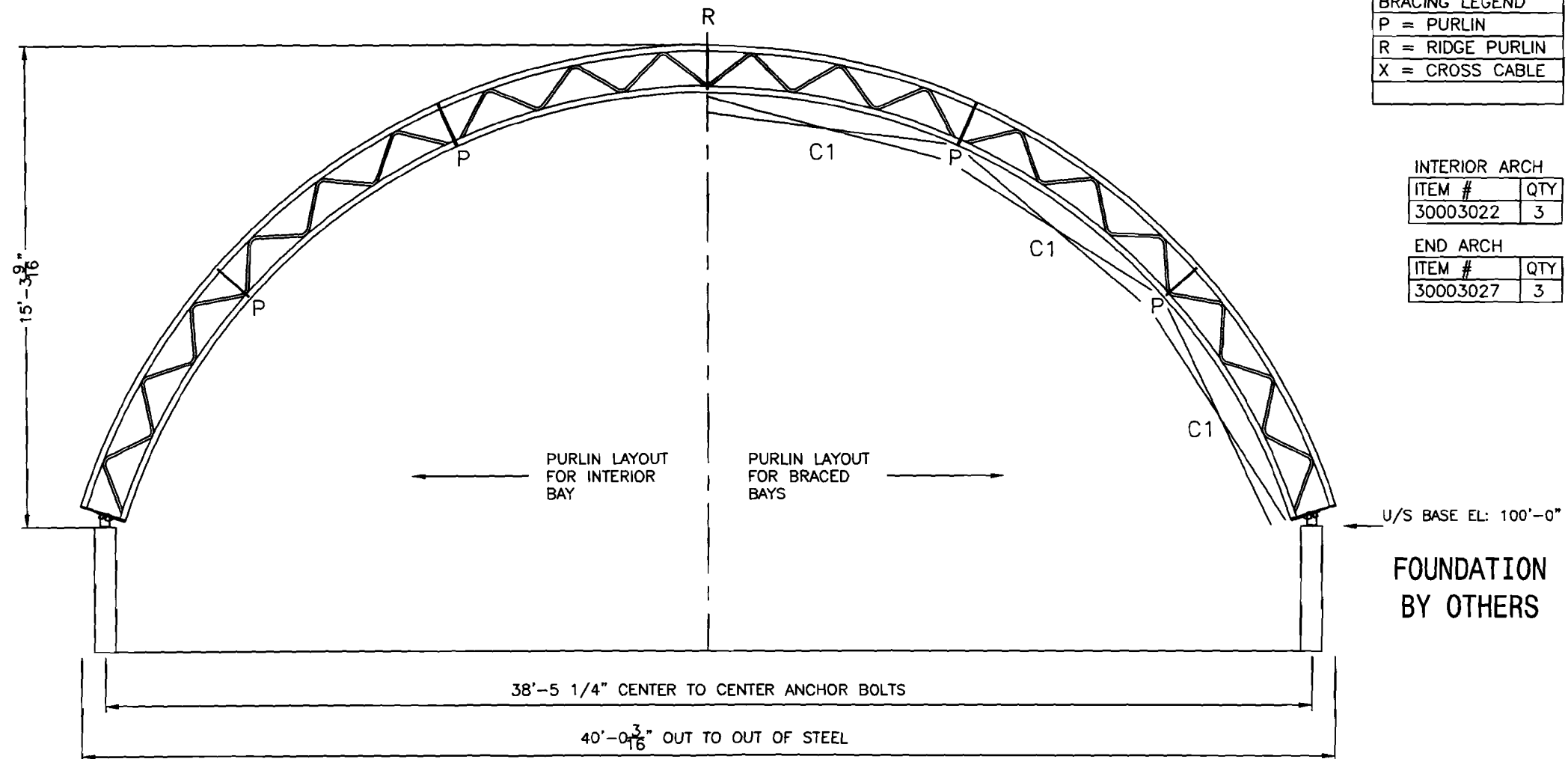


MAIN COVER: WHITE NON-FR  
 ENDFLAPS: WHITE NON-FR  
 ENDWALLS: WHITE NON-FR

**RECEIVED**  
 DEC 15 2011  
 Dept. of Building Inspections  
 City of Portland Maine

<div> BUILDING SYSTEMS INC.</div>				37651 Amberley Road Lucknow, ON, Canada NOG 2H0 PH: 1-519-528-2922 FAX: 1-519-528-2890		DEALER THE AUTUMN BREEZE GROUP P.O. BOX 94 FAIRLEE, VT. 05045		CUSTOMER: PHOENIX PROPERTY SERVICES 144 HUTCHINS RD PORTLAND ME. 4101		PROJECT: ATLAS 18 40' x 48' - 12' o.c. 320 GM		LICENCED PROFESSIONAL ENGINEER						
DETAILER: DS				DWG REV 1		REVISED BY: DESCRIPTION PREPARED FOR STRUCTURAL REVIEW		DATE 11/23/11		THIS DRAWING IS PROPERTY OF BRITESPAN BUILDING SYSTEMS INC. ANY REPRODUCTION IN WHOLE OR IN PART WITHOUT THE EXPRESSED WRITTEN CONSENT OF BRITESPAN BUILDING SYSTEMS INC. IS PROHIBITED. THIS DRAWING IS NOT TO SCALE UNLESS OTHERWISE NOTED.			WIDTH-STEEL-FAB-HSS-HSSDROP 40-320-220-12-0		DRAWING TITLE: PROJECT LAYOUT			
										PROJECT ID: 40 - PHOENIX			SO/ORDER ID: SO# 1605		DRAWING: FB-3		TAB TITLE: 003	

# Atlas 18 40 Wide - 320



BRACING LEGEND	
P	= PURLIN
R	= RIDGE PURLIN
X	= CROSS CABLE

INTERIOR ARCH	
ITEM #	QTY
30003022	3

END ARCH	
ITEM #	QTY
30003027	3

	16' BAY		14' BAY		12' BAY		10' BAY		8' BAY		6' BAY		5' BAY	
A-18 40'	ITEM #	LENGTH	ITEM #	LENGTH	ITEM #	LENGTH	ITEM #	LENGTH	ITEM #	LENGTH	ITEM #	LENGTH	ITEM #	LENGTH
C1 CABLE	861221-9	221"	861200-9	200"	861179-9	179"	861160-9	160"	861144-9	144"	861127-9	127"	861121-9	121"

RECEIVED  
DEC 15 2011

Dept. of Building Inspections  
City of Portland Maine

**BRITESPAN**  
BUILDING SYSTEMS INC.

37651 Amberley Road  
Lucknow, ON, Canada  
N0G 2H0  
PH: 1-519-528-2922  
FAX: 1-519-528-2890

DEALER  
THE AUTUMN BREEZE GROUP  
P.O. BOX 94  
FAIRLEE, VT. 05045

CUSTOMER:  
PHOENIX PROPERTY SERVICES  
144 HUTCHINS RD  
PORTLAND ME. 4101

PROJECT:  
ATLAS 18  
40' x 48' - 12' o.c.  
320 GM

THIS DRAWING IS PROPERTY OF BRITESPAN BUILDING SYSTEMS INC. ANY REPRODUCTION IN WHOLE OR IN PART WITHOUT THE EXPRESSED WRITTEN CONSENT OF BRITESPAN BUILDING SYSTEMS INC. IS PROHIBITED. THIS DRAWING IS NOT TO SCALE UNLESS OTHERWISE NOTED.

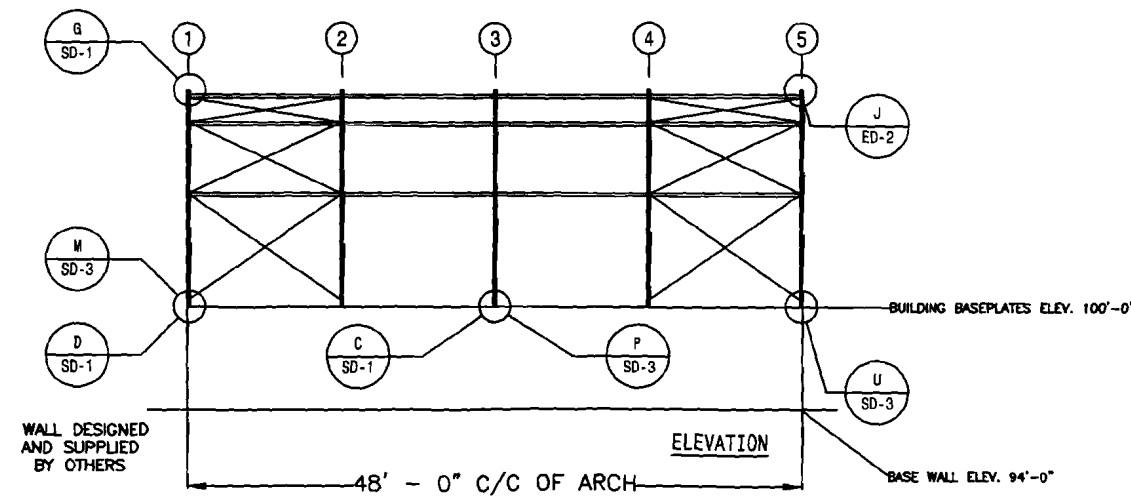
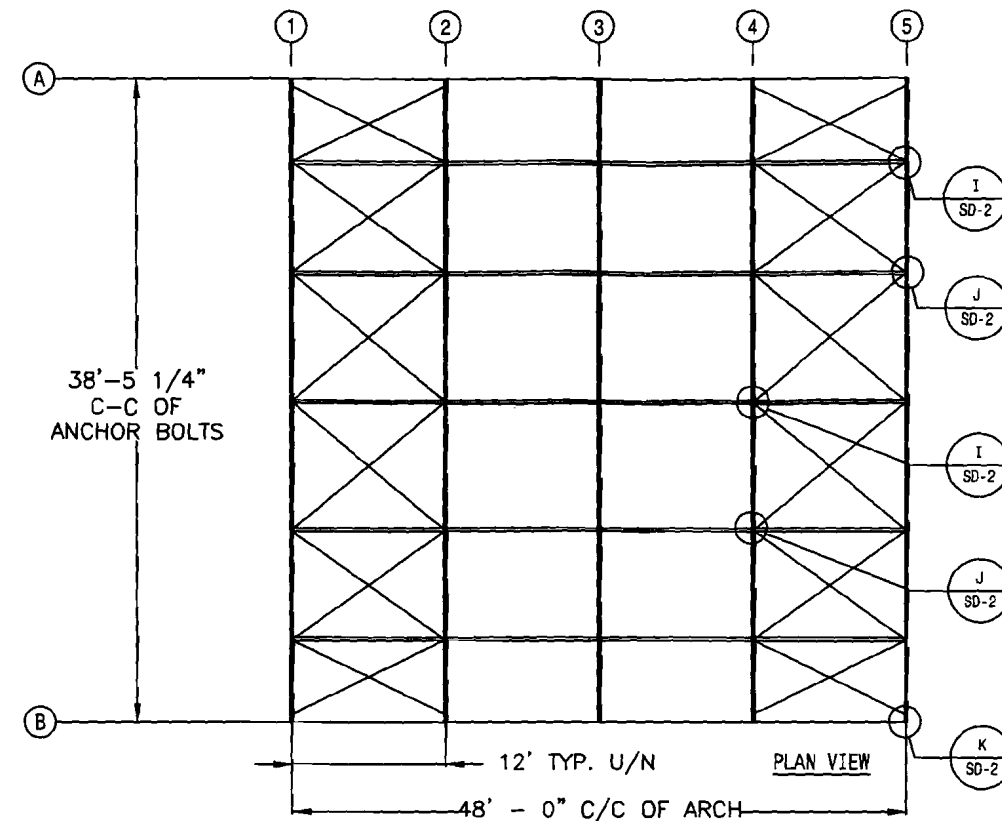
WIDTH-STEEL-FAB-HSS-HSSDROP  
40-320-220-12-0

DRAWING TITLE:  
PURLIN & X-CABLE LAYOUT

DETAILER:	DWG REV	REVISED BY: DESCRIPTION	DATE
DS	1	PREPARED FOR STRUCTURAL REVIEW	11/23/11

PROJECT ID: 40 - PHOENIX	SO/ORDER ID: SO# 1605	DRAWING: FB-4	TAB TITLE: 004
-----------------------------	--------------------------	------------------	-------------------

LICENCED PROFESSIONAL ENGINEER



RECEIVED

DEC 15 2011  
Dept. of Building Inspections  
City of Portland Maine



37651 Amberley Road  
Lucknow, ON, Canada  
N0G 2H0  
PH: 1-519-528-2922  
FAX: 1-519-528-2890

DEALER  
THE AUTUMN BREEZE GROUP  
P.O. BOX 94  
FAIRLEE, VT. 05045

CUSTOMER:  
PHOENIX PROPERTY SERVICES  
144 HUTCHINS RD  
PORTLAND ME. 4101

PROJECT:  
ATLAS 18  
40' x 48' - 12' o.c.  
320 GM

THIS DRAWING IS PROPERTY OF BRITESPAN BUILDING SYSTEMS INC. ANY REPRODUCTION IN WHOLE OR IN PART WITHOUT THE EXPRESSED WRITTEN CONSENT OF BRITESPAN BUILDING SYSTEMS INC. IS PROHIBITED. THIS DRAWING IS NOT TO SCALE UNLESS OTHERWISE NOTED.

WIDTH-STEEL-FAB-HSS-HSSDROP  
40-320-220-12-0

DRAWING TITLE:  
BRACING LAYOUT

PROJECT ID:  
40 - PHOENIX

SO/ORDER ID:  
SO# 1605

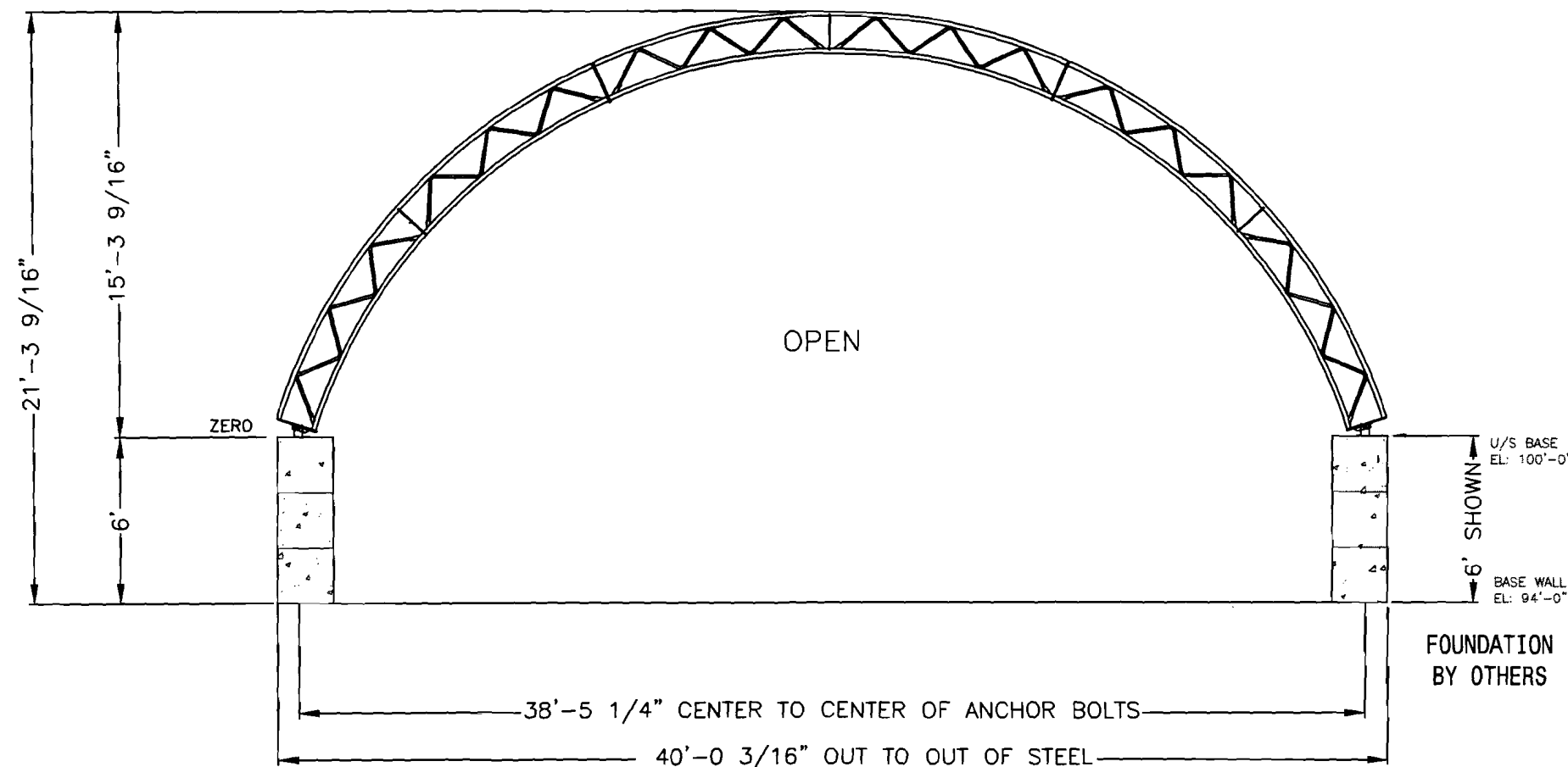
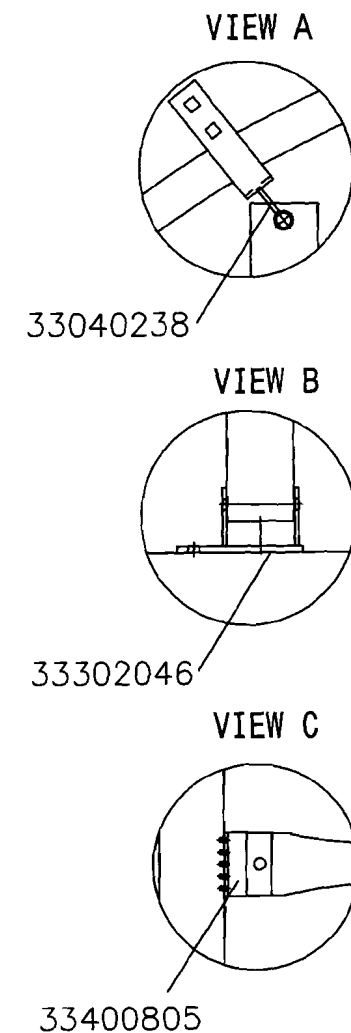
DRAWING:  
FB-5

TAB TITLE:  
005

LICENCED PROFESSIONAL ENGINEER

DETAILER:	DWG REV	REVISED BY: DESCRIPTION	DATE
DS	1	PREPARED FOR STRUCTURAL REVIEW	11/23/11

MARK#	QTY	COMPONENTS (in)



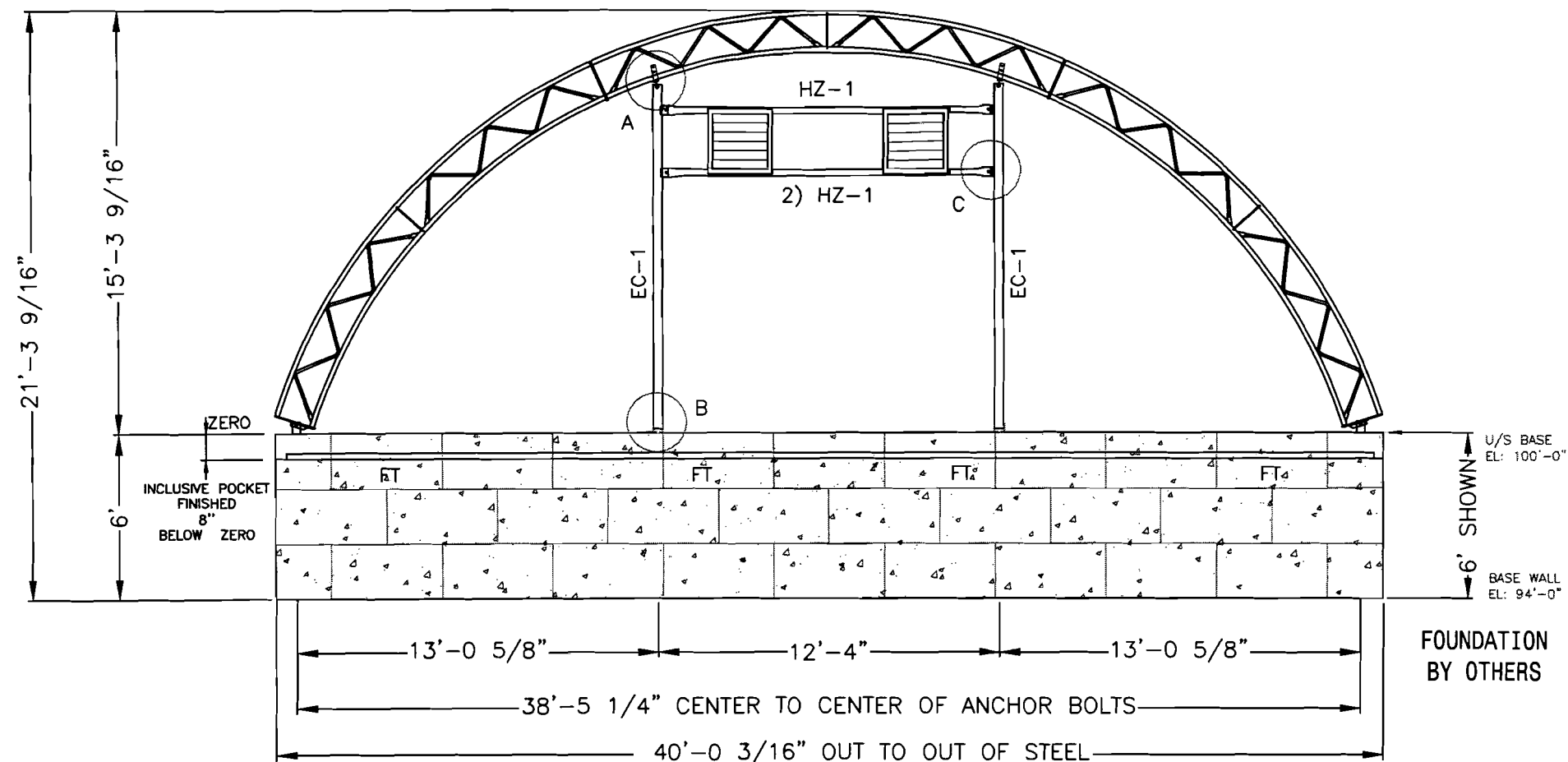
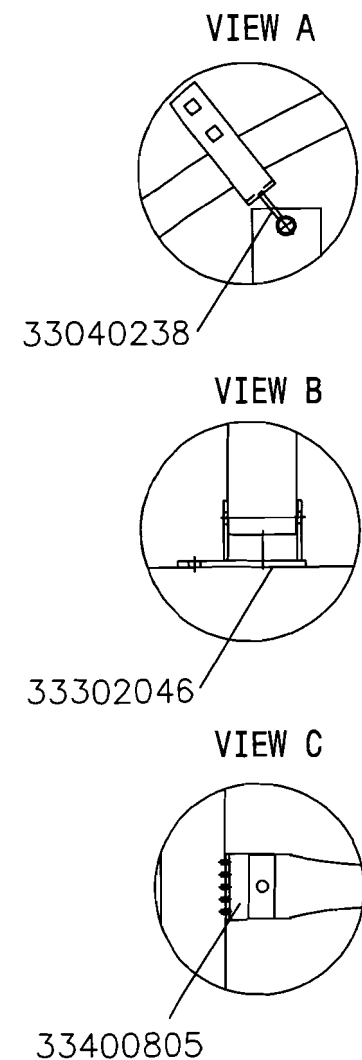
RECEIVED

DEC 15 2011  
Dept. of Building Inspections  
City of Portland Maine

				DEALER THE AUTUMN BREEZE GROUP P.O. BOX 94 FAIRLEE, VT. 05045		CUSTOMER: PHOENIX PROPERTY SERVICES 144 HUTCHINS RD PORTLAND ME. 4101		PROJECT: ATLAS 18 40' x 48' - 12' o.c. 320 GM	
37651 Amberley Road Lucknow, ON, Canada NOG 2H0 PH: 1-519-528-2922 FAX: 1-519-528-2890				THIS DRAWING IS PROPERTY OF BRITESPAN BUILDING SYSTEMS INC. ANY REPRODUCTION IN WHOLE OR IN PART WITHOUT THE EXPRESSED WRITTEN CONSENT OF BRITESPAN BUILDING SYSTEMS INC. IS PROHIBITED. THIS DRAWING IS NOT TO SCALE UNLESS OTHERWISE NOTED.		WIDTH-STEEL-FAB-HSS-HSSDROP 40-320-220-12-0		DRAWING TITLE: ENDWALL LAYOUT	
DETAILER: DS	DWG REV	REVISED BY: DESCRIPTION	DATE	PROJECT ID:		SO/ORDER ID:		DRAWING:	
	1	PREPARED FOR STRUCTURAL REVIEW	11/23/11	40 - PHOENIX		S0# 1605		EW-1	
								TAB TITLE: 006a	

LICENCED PROFESSIONAL ENGINEER

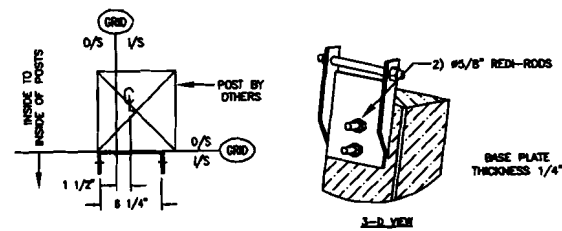
MARK#	QTY	COMPONENTS (in)
EC-1	2	4"x4"x1/8" 149 1/2" HSS
33302046	2	BASE PLATE - 4X4 HSS
33040238	2	BRKT -TOP SADDLE ASSY 4" - 2 3/8" CORD
FT	-	2 3/8" DIA 12 Ga FASTENING TUBE CUT TO LENGTH
33400805	2	BRACKET - 3X3X4 HORIZONTAL ANGLE
HZ-1	3	32000039 (2 1/2" - 14GA + 32000122 (2 7/8" 14 GA)



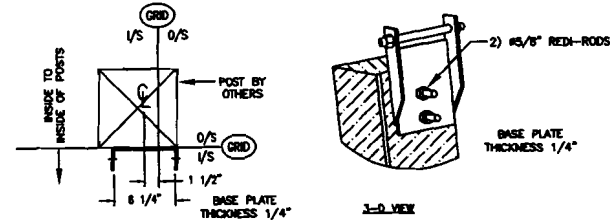
FOUNDATION  
BY OTHERS

RECEIVED  
DEC 15 2011  
Dept. of Building Inspections  
City of Portland Maine

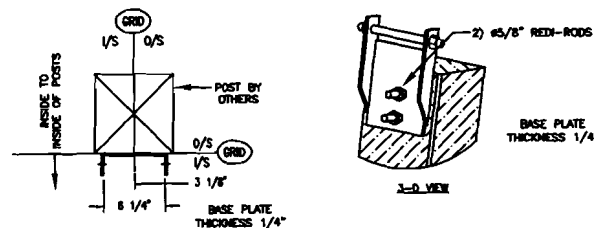
<b>BRITESPAN</b> BUILDING SYSTEMS INC.				DEALER THE AUTUMN BREEZE GROUP P.O. BOX 94 FAIRLEE, VT. 05045		CUSTOMER: PHOENIX PROPERTY SERVICES 144 HUTCHINS RD PORTLAND ME. 4101		PROJECT: ATLAS 18 40' x 48' - 12' o.c. 320 GM	
37651 Amberley Road Lucknow, ON, Canada N0G 2H0 PH: 1-519-528-2922 FAX: 1-519-528-2890				THIS DRAWING IS PROPERTY OF BRITESPAN BUILDING SYSTEMS INC. ANY REPRODUCTION IN WHOLE OR IN PART WITHOUT THE EXPRESSED WRITTEN CONSENT OF BRITESPAN BUILDING SYSTEMS INC. IS PROHIBITED. THIS DRAWING IS NOT TO SCALE UNLESS OTHERWISE NOTED.		WIDTH-STEEL-FAB-HSS-HSSDROP 40-320-220-12-0		DRAWING TITLE: ENDWALL LAYOUT	
DETAILER: DS	DWG REV 1	REVISED BY: DESCRIPTION PREPARED FOR STRUCTURAL REVIEW	DATE 11/23/11	PROJECT ID: 40 - PHOENIX		SO/ORDER ID: S0# 1605	DRAWING: EW-2	TAB TITLE: 006b	LICENCED PROFESSIONAL ENGINEER



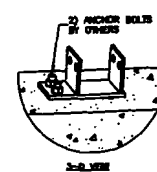
A LEFT END TRUSS  
BD-1 BASEPLATE DETAIL



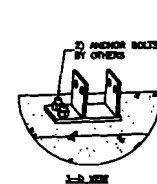
B RIGHT END TRUSS  
BD-1 BASEPLATE DETAIL



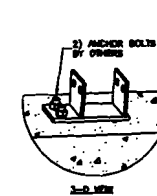
C COMMON TRUSS  
BD-1 BASEPLATE DETAIL



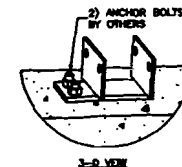
D 4x4 HSS ENDWALL  
BD-1 BASEPLATE DETAIL



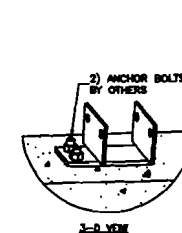
E 3x6 HSS ENDWALL  
BD-1 BASEPLATE DETAIL



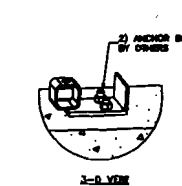
F 4x6 HSS ENDWALL  
BD-1 BASEPLATE DETAIL



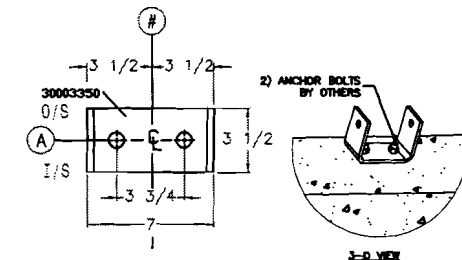
G 4x8 HSS ENDWALL  
BD-1 BASEPLATE DETAIL



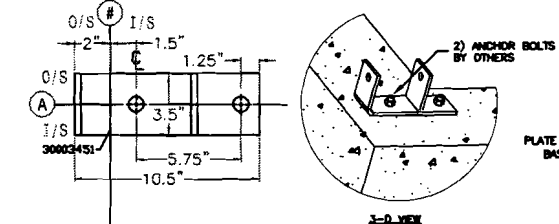
H 4x10 HSS ENDWALL  
BD-1 BASEPLATE DETAIL



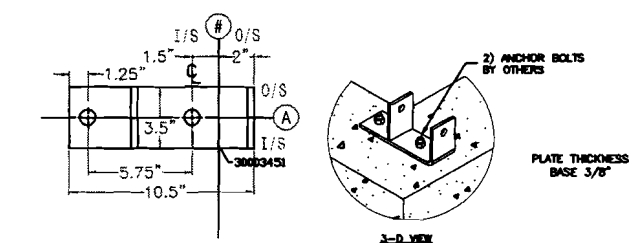
I C-CHANNEL ENDWALL  
BD-1 BASEPLATE DETAIL



J COMMON TRUSS  
BD-1 BASEPLATE DETAIL



K RIGHT END TRUSS  
BD-1 BASEPLATE DETAIL



L LEFT END TRUSS  
BD-1 BASEPLATE DETAIL

**BRITESPAN**  
BUILDING SYSTEMS INC.

37651 Amberley Road  
Lucknow, ON, Canada  
N0G 2H0  
PH: 1-519-528-2922  
FAX: 1-519-528-2890

DEALER  
THE AUTUMN BREEZE GROUP  
P.O. BOX 94  
FAIRLEE, VT. 05045

THIS DRAWING IS PROPERTY OF BRITESPAN  
BUILDING SYSTEMS INC. ANY REPRODUCTION  
IN WHOLE OR IN PART WITHOUT THE  
EXPRESSED WRITTEN CONSENT OF BRITESPAN  
BUILDING SYSTEMS INC. IS PROHIBITED. THIS  
DRAWING IS NOT TO SCALE UNLESS  
OTHERWISE NOTED.

CUSTOMER:  
PHOENIX PROPERTY SERVICES  
144 HUTCHINS RD  
PORTLAND ME. 4101

WIDTH-STEEL-FAB-HSS-HSSDROP  
40-320-220-12-0

PROJECT ID:  
40 - PHOENIX

SO/ORDER ID:  
S0# 1605

PROJECT:  
ATLAS 18  
40' x 48' - 12' o.c.  
320 GM

DRAWING TITLE:  
BASEPLATE DETAILS

DRAWING:  
BD-1

TAB TITLE:  
007

RECEIVED  
DEC 15 2011  
Dept. of Building Inspections  
City of Portland Maine

LICENSED PROFESSIONAL ENGINEER



37651 Amberley Road  
Lucknow, ON, Canada  
NOG 2H0  
PH: 1-519-528-2922  
FAX: 1-519-528-2890

DEALER  
THE AUTUMN BREEZE GROUP  
P.O. BOX 94  
FAIRLEE, VT. 05045

CUSTOMER:  
PHOENIX PROPERTY SERVICES  
144 HUTCHINS RD  
PORTLAND ME. 4101

PROJECT:  
ATLAS 18  
40' x 48' - 12' o.c.  
320 GM

THIS DRAWING IS PROPERTY OF BRITESPAN BUILDING SYSTEMS INC. ANY REPRODUCTION IN WHOLE OR IN PART WITHOUT THE EXPRESSED WRITTEN CONSENT OF BRITESPAN BUILDING SYSTEMS INC. IS PROHIBITED. THIS DRAWING IS NOT TO SCALE UNLESS OTHERWISE NOTED.

WIDTH-STEEL-FAB-HSS-HSSDROP  
40-320-220-12-0

DRAWING TITLE:  
STANDARD DETAILS

DETAILER:	DWG REV	REVISED BY: DESCRIPTION	DATE
DS	1	PREPARED FOR STRUCTURAL REVIEW	11/23/11

PROJECT ID:  
40 - PHOENIX

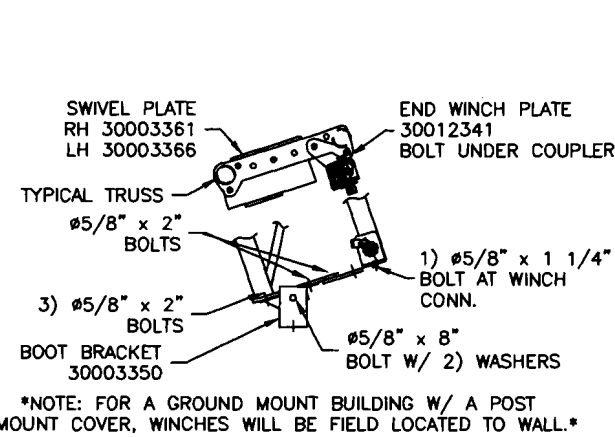
SO/ORDER ID:  
SO# 1605

DRAWING:  
SD-1

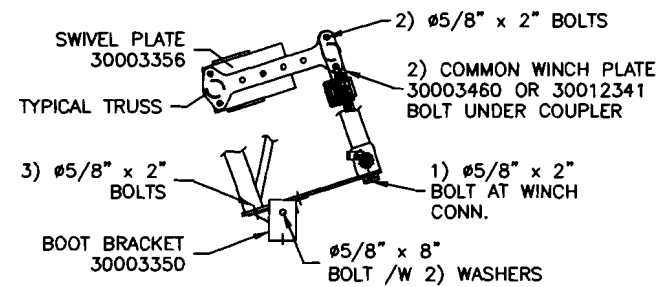
TAB TITLE:  
008

LICENCED PROFESSIONAL ENGINEER

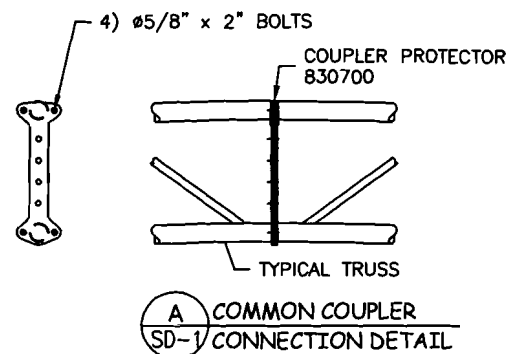
RECEIVED  
DEC 15  
Dept. of Building Inspections  
City of Portland Maine



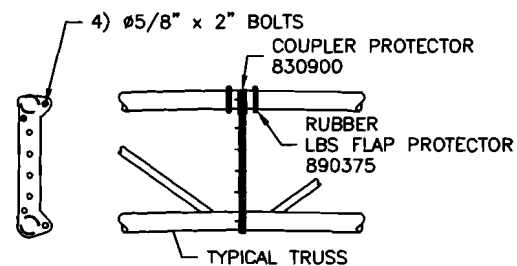
D END BASE  
SD-1 CONNECTION



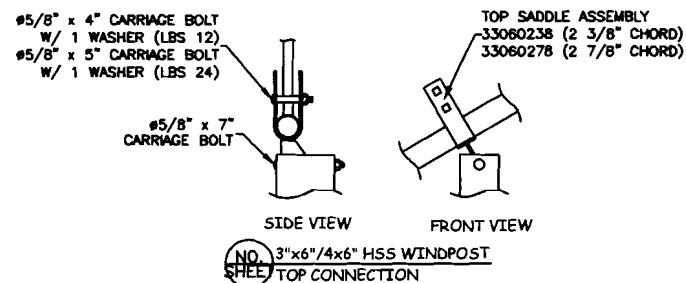
E COMMON BASE  
SD-1 CONNECTION



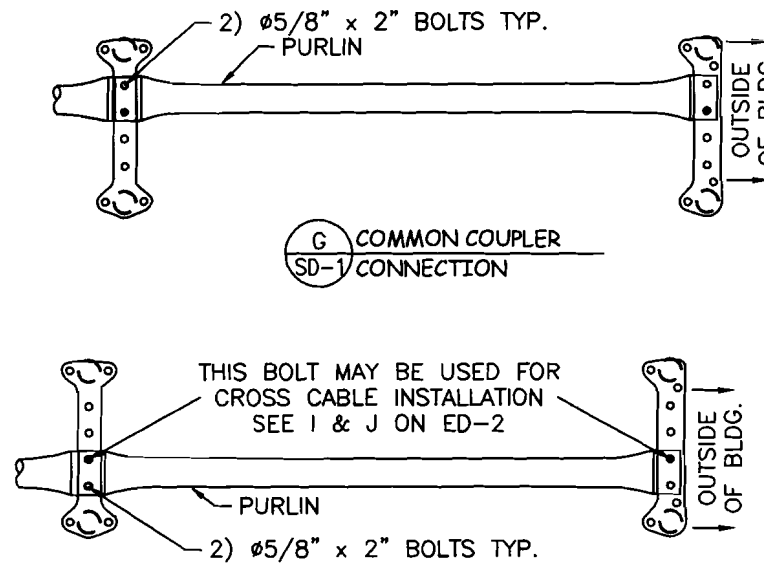
A COMMON COUPLER  
SD-1 CONNECTION DETAIL



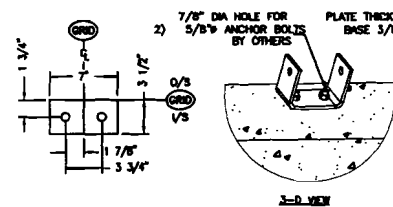
B END COUPLER  
SD-1 CONNECTION DETAIL



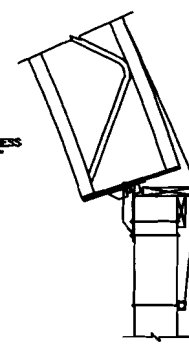
C COMMON TRUSS  
SD-1 BASEPLATE DETAIL



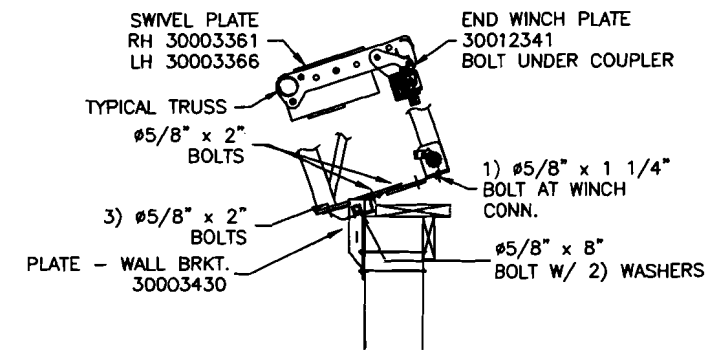
G COMMON COUPLER  
SD-1 CONNECTION



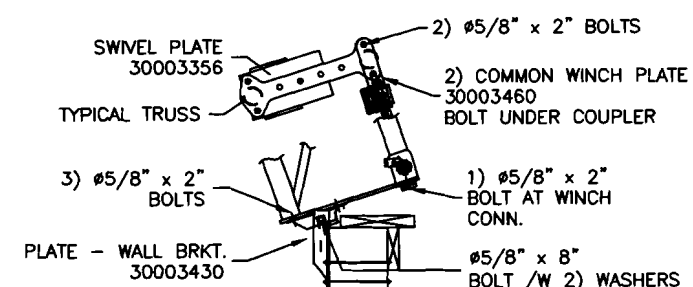
H COMMON PURLIN  
SD-1 CONNECTION



C COMMON TRUSS  
SD-1 WALL BRACKET DETAIL

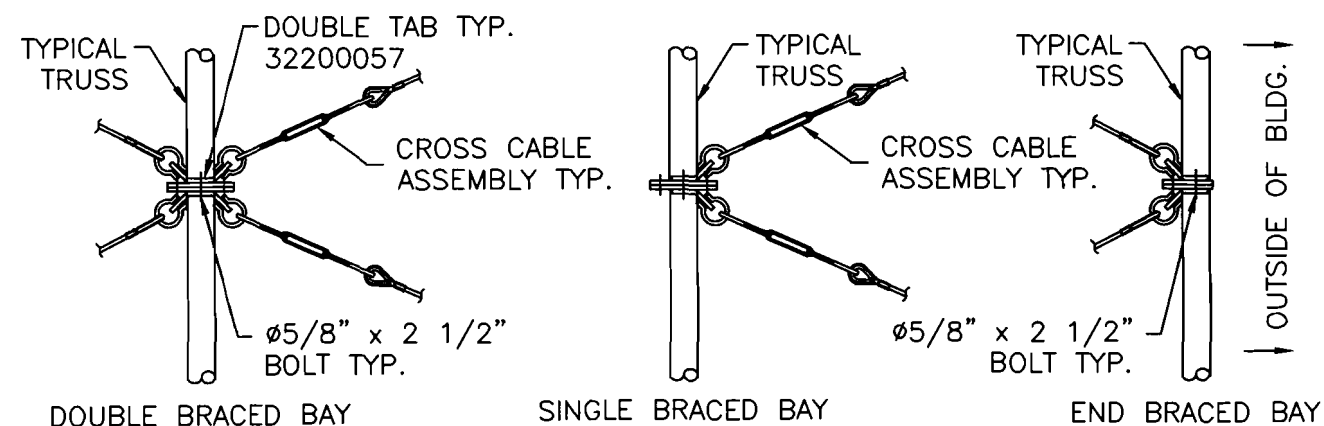


D END BASE  
SD-1 CONNECTION

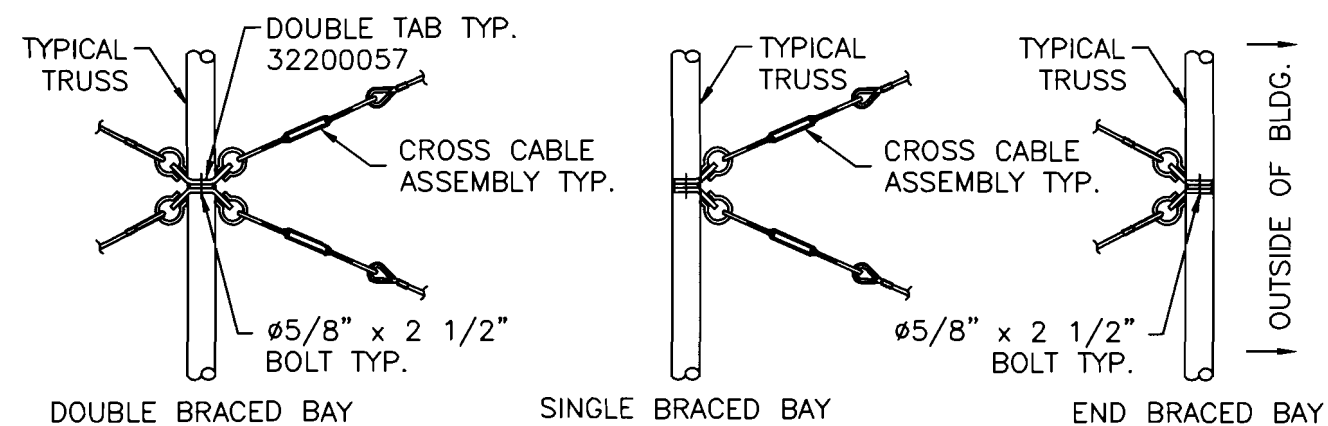


E COMMON BASE  
SD-1 CONNECTION

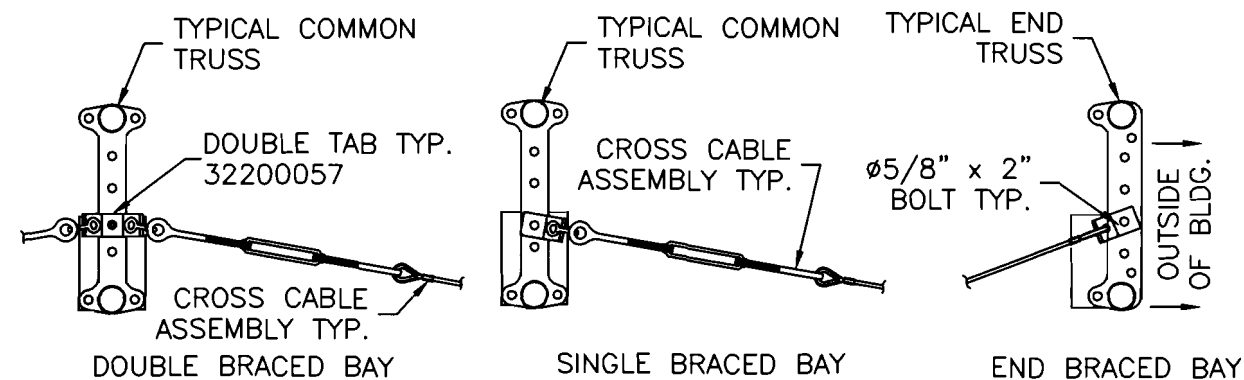




I CROSS CABLE AT COUPLER CONNECTION



J CROSS CABLE AT MID TRUSS CONNECTION



K CROSS CABLE AT BOOT CONNECTION

RECEIVED  
DEC 15  
Dept. of Building Inspections  
City of Portland, Maine

**BRITESPAN**  
BUILDING SYSTEMS INC.

37651 Amberley Road  
Lucknow, ON, Canada  
N0G 2H0  
PH: 1-519-528-2922  
FAX: 1-519-528-2890

DEALER  
THE AUTUMN BREEZE GROUP  
P.O. BOX 94  
FAIRLEE, VT. 05045

THIS DRAWING IS PROPERTY OF BRITESPAN BUILDING SYSTEMS INC. ANY REPRODUCTION IN WHOLE OR IN PART WITHOUT THE EXPRESSED WRITTEN CONSENT OF BRITESPAN BUILDING SYSTEMS INC. IS PROHIBITED. THIS DRAWING IS NOT TO SCALE UNLESS OTHERWISE NOTED.

CUSTOMER:  
PHOENIX PROPERTY SERVICES  
144 HUTCHINS RD  
PORTLAND ME. 4101

WIDTH-STEEL-FAB-HSS-HSSDROP  
40-320-220-12-0

PROJECT ID:  
40 - PHOENIX

SO/ORDER ID:  
S0# 1605

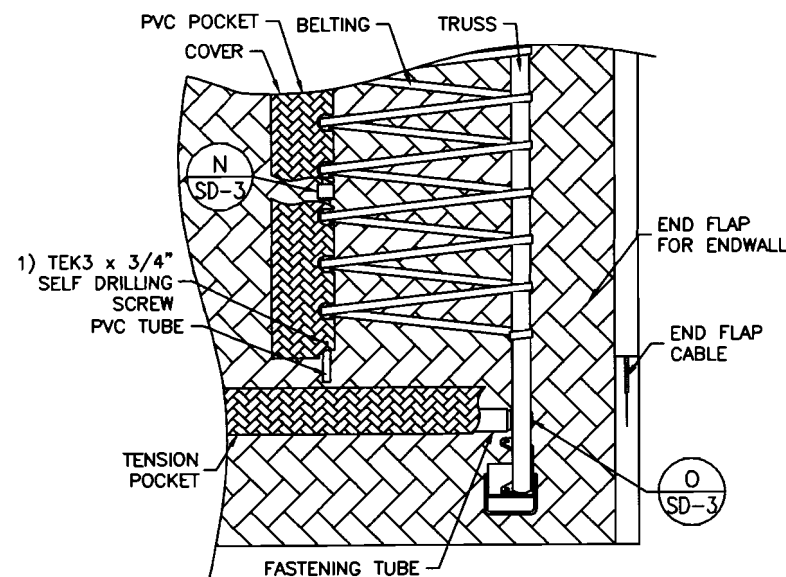
PROJECT:  
ATLAS 18  
40' x 48' - 12' o.c.  
320 GM

DRAWING TITLE:  
STANDARD DETAILS

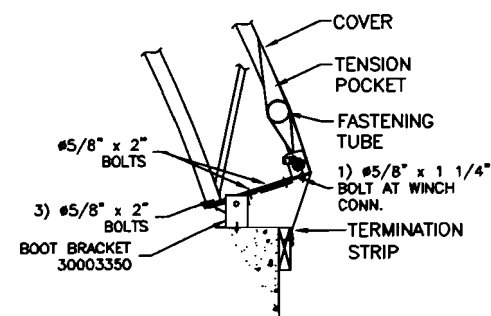
DRAWING:  
SD-2

TAB TITLE:  
009

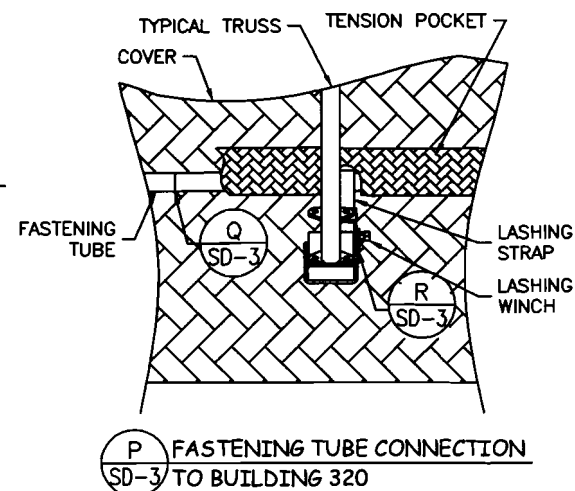
LICENCED PROFESSIONAL ENGINEER



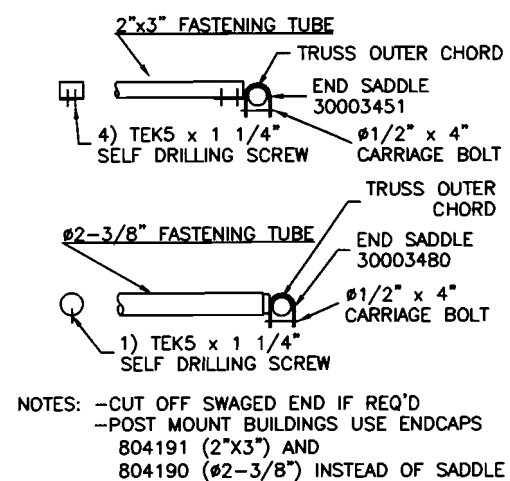
**M** PVC TUBE CONNECTION  
SD-3 TO BUILDING



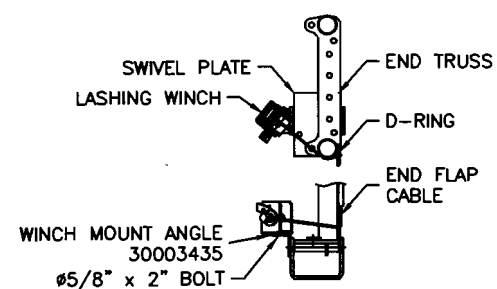
**N** 320 STEEL w/  
SD-3 320 MID-POCKET & APRON



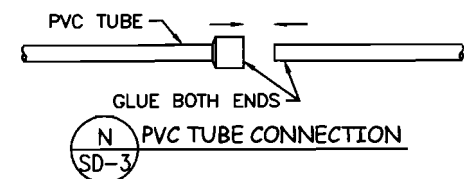
**P** FASTENING TUBE CONNECTION  
SD-3 TO BUILDING 320



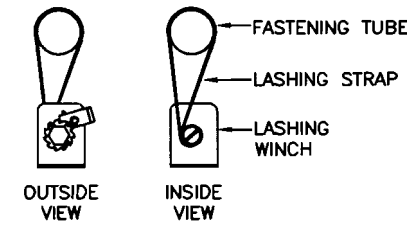
**Q** FASTENING TUBE  
SD-3 END SADDLE BRACKET



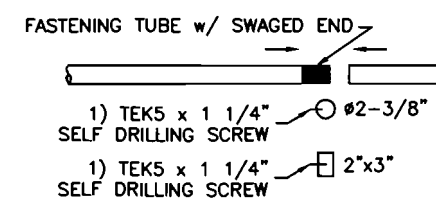
**R** LASHING STRAP CONN.  
SD-3 TO LASHING WINCH



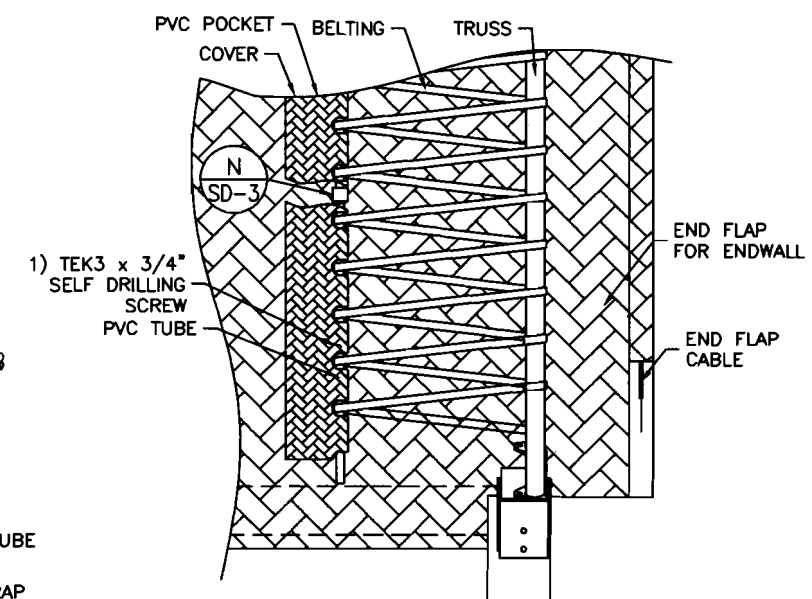
**S** FASTENING TUBE  
SD-3 CONNECTION



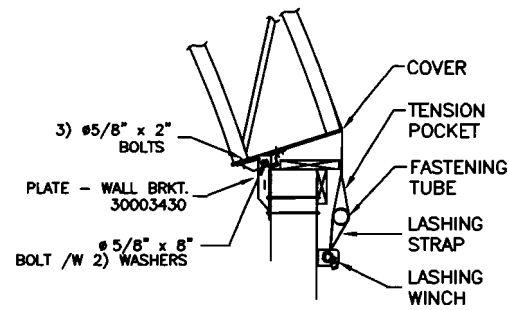
**T** 220 STEEL w/  
SD-3 220 INCLUSIVE POCKET



**U** END FLAP LASHING  
SD-3 WINCH CONNECTION



**V** PVC TUBE CONNECTION  
SD-3 TO BUILDING



**W** 220 STEEL w/  
SD-3 220 INCLUSIVE POCKET

**BRITESPAN**  
BUILDING SYSTEMS INC.

37651 Amberley Road  
Lucknow, ON, Canada  
N0G 2H0  
PH: 1-519-528-2922  
FAX: 1-519-528-2890

DEALER  
THE AUTUMN BREEZE GROUP  
P.O. BOX 94  
FAIRLEE, VT. 05045

THIS DRAWING IS PROPERTY OF BRITESPAN BUILDING SYSTEMS INC. ANY REPRODUCTION IN WHOLE OR IN PART WITHOUT THE EXPRESSED WRITTEN CONSENT OF BRITESPAN BUILDING SYSTEMS INC. IS PROHIBITED. THIS DRAWING IS NOT TO SCALE UNLESS OTHERWISE NOTED.

CUSTOMER:  
PHOENIX PROPERTY SERVICES  
144 HUTCHINS RD  
PORTLAND ME. 4101

WIDTH-STEEL-FAB-HSS-HSSDROP  
40-320-220-12-0

PROJECT ID:  
40 - PHOENIX

SO/ORDER ID:  
SO# 1605

PROJECT:  
ATLAS 18  
40' x 48' - 12' o.c.  
320 GM

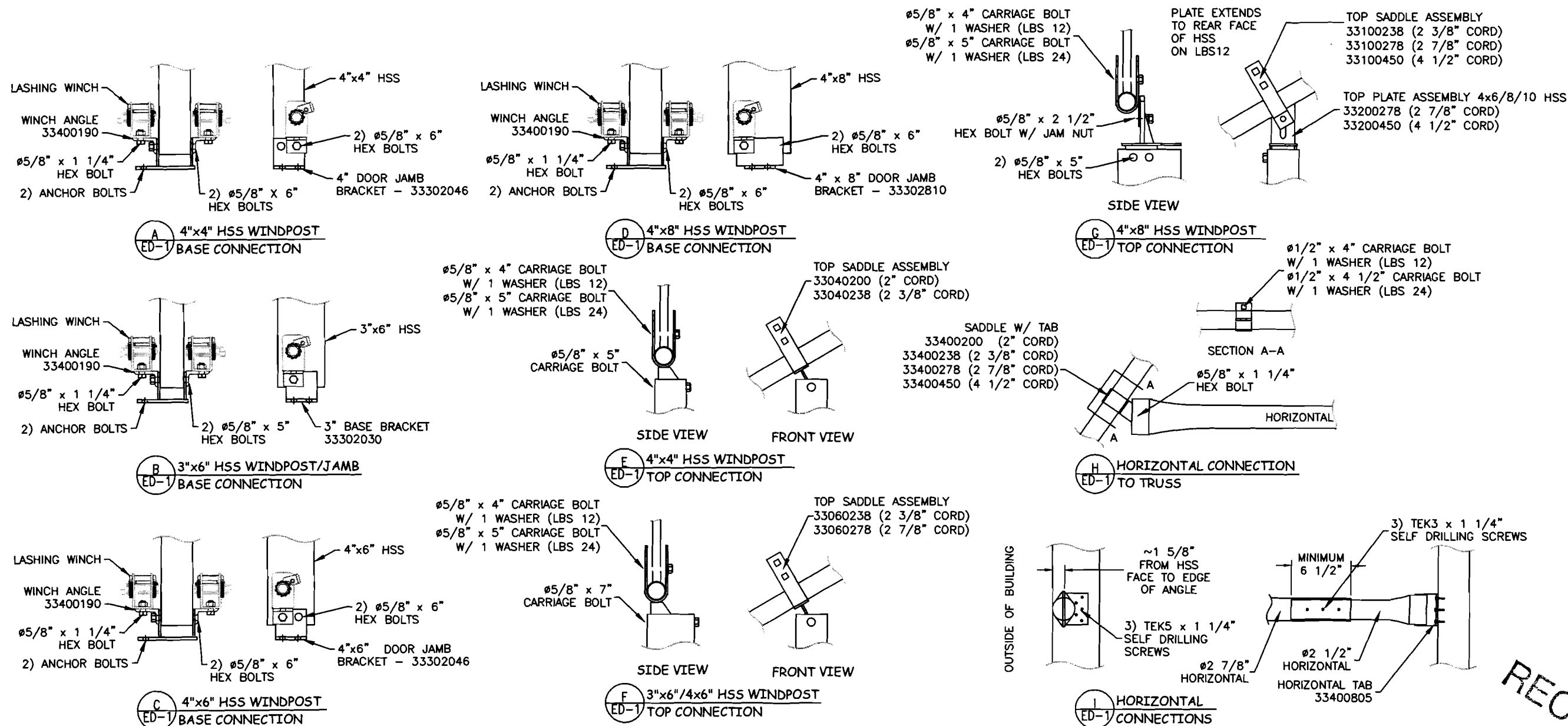
DRAWING TITLE:  
STANDARD DETAILS

DRAWING:  
SD-3

TAB TITLE:  
010

LICENCED PROFESSIONAL ENGINEER

RECEIVED  
DEC 15  
Dept. of Building Inspections  
City of Portland, Maine



RECEIVED  
 DEC 15 2011

Dept. of Building Inspections  
 City of Portland Maine



37651 Amberley Road  
 Lucknow, ON, Canada  
 N0G 2H0  
 PH: 1-519-528-2922  
 FAX: 1-519-528-2890

DEALER  
 THE AUTUMN BREEZE GROUP  
 P.O. BOX 94  
 FAIRLEE, VT. 05045

THIS DRAWING IS PROPERTY OF BRITESPAN BUILDING SYSTEMS INC. ANY REPRODUCTION IN WHOLE OR IN PART WITHOUT THE EXPRESSED WRITTEN CONSENT OF BRITESPAN BUILDING SYSTEMS INC. IS PROHIBITED. THIS DRAWING IS NOT TO SCALE UNLESS OTHERWISE NOTED.

CUSTOMER:  
 PHOENIX PROPERTY SERVICES  
 144 HUTCHINS RD  
 PORTLAND ME. 4101

WIDTH-STEEL-FAB-HSS-HSSDROP  
 40-320-220-12-0

PROJECT ID:  
 40 - PHOENIX

SO/ORDER ID:  
 SO# 1605

PROJECT:  
 ATLAS 18  
 40' x 48' - 12' o.c.  
 320 GM

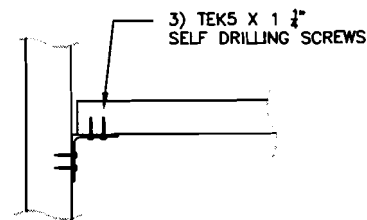
DRAWING TITLE:  
 ENDWALL DETAILS

DRAWING:  
 ED-1

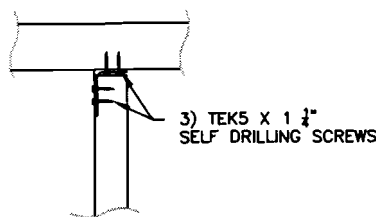
TAB TITLE:  
 011

LICENCED PROFESSIONAL ENGINEER

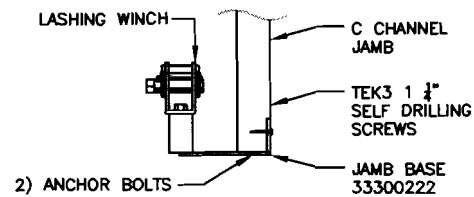
DETAILER:	DWG REV	REVISED BY: DESCRIPTION	DATE
DS	1	PREPARED FOR STRUCTURAL REVIEW	11/23/11



J C-CHANNEL HEADER CONNECTION  
ED-2 TO HSS WINDPOST/JAMB

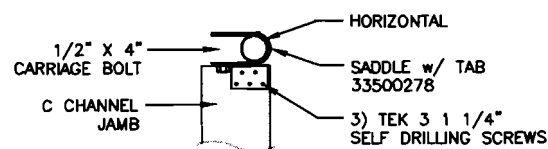


K C-CHANNEL HEADER CONNECTION  
ED-2 TO C-CHANNEL HEADER

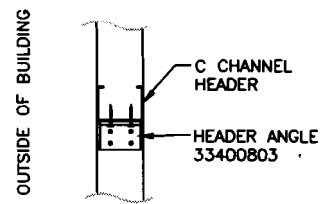


SEE BD - 1 BASEPLATE FOR DETAIL

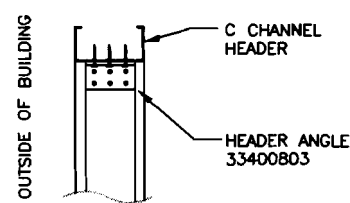
L C-CHANNEL JAMB  
ED-2 BASE CONNECTION



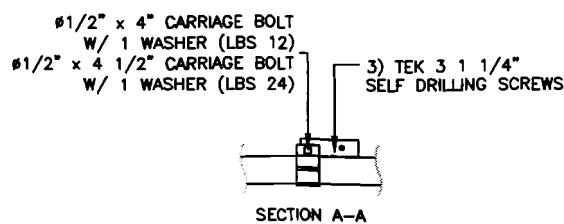
M C-CHANNEL JAMB CONNECTION  
ED-2 TO HORIZONTAL



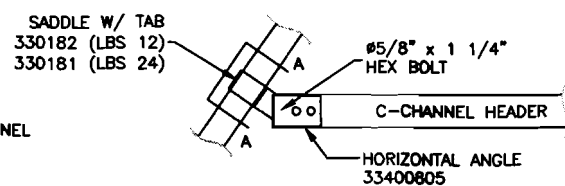
N C-CHANNEL HEADER CONNECTION  
ED-2 TO HSS WINDPOST/JAMB



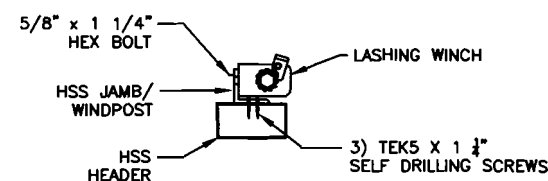
O 4"x4" HSS HEADER  
ED-2 CONNECTION TO JAMB



P 3"x6" HSS HEADER  
ED-2 CONNECTION TO JAMB



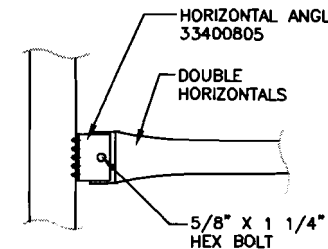
Q LASHING WINCH CONNECTION  
ED-2 TO HSS WINDPOST



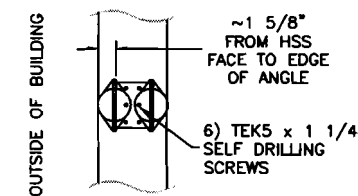
R LASHING WINCH CONNECTION  
ED-2 TO HSS HEADER



S LASHING WINCH CONNECTION  
ED-2 TO C CHANNEL HEADER



T DOUBLE VENT HORIZONTAL  
ED-2 CONNECTION TO HSS WINDPOST



U DOUBLE VENT HORIZONTAL  
ED-2 CONNECTION TO HSS WINDPOST

**BRITESPAN**  
BUILDING SYSTEMS INC.

37651 Amberley Road  
Lucknow, ON, Canada  
N0G 2H0  
PH: 1-519-528-2922  
FAX: 1-519-528-2890

DEALER  
THE AUTUMN BREEZE GROUP  
P.O. BOX 94  
FAIRLEE, VT. 05045

CUSTOMER:  
PHOENIX PROPERTY SERVICES  
144 HUTCHINS RD  
PORTLAND ME. 4101

PROJECT:  
ATLAS 18  
40' x 48' - 12' o.c.  
320 GM

THIS DRAWING IS PROPERTY OF BRITESPAN BUILDING SYSTEMS INC. ANY REPRODUCTION IN WHOLE OR IN PART WITHOUT THE EXPRESSED WRITTEN CONSENT OF BRITESPAN BUILDING SYSTEMS INC. IS PROHIBITED. THIS DRAWING IS NOT TO SCALE UNLESS OTHERWISE NOTED.

WIDTH-STEEL-FAB-HSS-HSSDROP  
40-320-220-12-0

DRAWING TITLE:  
ENDWALL DETAILS

PROJECT ID:  
40 - PHOENIX

SO/ORDER ID:  
S0# 1605

DRAWING:  
ED-2

TAB TITLE:  
012

LICENCED PROFESSIONAL ENGINEER

RECEIVED  
DEC 15 2011  
Dept. of Building Inspections  
City of Portland, Maine

GENERAL NOTES

1. THE PURPOSE OF THIS PLAN IS TO PROVIDE DETAILS FOR THE CONSTRUCTION OF A NEW SINGLE-LEVEL SALT STORAGE STRUCTURE LOCATED AT 144 HUTCHINS DRIVE PORTLAND, ME.
2. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF ALL APPLICABLE STATE AND LOCAL CODES, INCLUDING BUT NOT LIMITED TO:
- 2009 INTERNATIONAL BUILDING CODE (IBC)
  - ANSI / ASCE 7-05
  - ACI 318-05 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE"
  - ACI 301-05 "SPECIFICATIONS FOR STRUCTURAL CONCRETE"
  - AISC STEEL CONSTRUCTION MANUAL
  - ANSI / AF&PA NDS-97
  - TMS 402-08 / ACI 530-08 / ASCE 5-08 "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES"
  - TMS 602-08 / ACI 530.1-08 / ASCE 6-08 "SPECIFICATION FOR MASONRY STRUCTURES"
  - ANSI/TPI 1-2007 "NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION"
- ANY DISCREPANCIES BETWEEN THE ABOVE LISTED CODES AND THE CONSTRUCTION DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION BEFORE PROCEEDING WITH WORK.
3. ALL WORK SHALL BE PERFORMED BY PERSONS QUALIFIED IN THEIR TRADE AND LICENSED TO PRACTICE SUCH TRADE IN THE STATE IN WHICH THE PROJECT IS LOCATED.
4. THESE DRAWINGS SHALL BE USED IN CONJUNCTION WITH ANY ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS IN ADDITION TO SPECIFICATIONS AND ANY SHOP DRAWINGS PROVIDED BY SUBCONTRACTORS AND SUPPLIERS.
5. ALL DIMENSIONS, ELEVATIONS, AND CONDITIONS SHALL BE VERIFIED IN THE FIELD BY THE GENERAL CONTRACTOR (G.C.) AND ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION BEFORE PROCEEDING WITH THE AFFECTED PART OF WORK.
6. UNLESS OTHERWISE NOTED, DETAILS, SECTIONS, AND NOTES SHOWN ON THESE DRAWINGS SHALL BE CONSIDERED TYPICAL FOR ALL SIMILAR DETAILS.
7. THESE DRAWINGS DO NOT SHOW SIZE, LOCATION, OR TYPE OF OPENINGS IN THE FOUNDATION SYSTEM FOR ELECTRICAL PLUMBING, OR MECHANICAL EQUIPMENT. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING OF THESE ITEMS.
8. ALL SHOP DRAWINGS PROVIDED BY OTHERS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO THE FABRICATION OF MATERIAL OR THE PURCHASE OF NON-RETURNABLE STOCK. QUANTITY AND DIMENSIONAL REVIEW IS THE CONTRACTOR'S RESPONSIBILITY.
9. ANY AND ALL TEMPORARY BRACING OR SHORING WHICH IS NEEDED TO HOLD THE STRUCTURE IN A SAFE AND STABLE POSITION UNTIL THE BUILDING IS COMPLETE, IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. CONSULT INDEPENDENT ENGINEER IF DESIGN ASSISTANCE OR REVIEW IS NEEDED.

FOUNDATION NOTES

1. A MAXIMUM ALLOWABLE SOIL PRESSURE OF 1,500 PSF WAS USED FOR THE DESIGN OF ALL FOOTINGS.
2. BACKFILL FOR FOOTINGS AND WALLS SHALL BE FREE DRAINING GRANULAR MATERIAL.
3. FOOTINGS SHALL BE PLACED ON NATURAL UNDISTURBED SOIL OR COMPACTED STRUCTURAL FILL. LEDGE, LARGE ROCKS AND SOFT AREAS OR UNDESIRABLE MATERIAL BELOW FOOTINGS SHALL BE REMOVED AND REPLACED WITH STRUCTURAL FILL. FOOTINGS IN EXCAVATIONS OF LEDGE SHALL BE PLACED ON A MINIMUM OF 2' OF STRUCTURAL FILL.
4. STRUCTURAL FILL SHALL BE PLACED IN 6 INCH LIFTS AND COMPACTED TO A MINIMUM 95% MODIFIED PROCTOR PER ASTM D1557. STRUCTURAL FILL SHALL BE A CLEAN, WELL GRADED SAND AND GRAVEL MIXTURE MEETING THE FOLLOWING GRADATION:

SCREEN OR SIEVE SIZE	PERCENT PASSING
6 INCHES	100
3 INCHES	70 - 100
NO. 4	35 - 70
NO. 40	5 - 35
NO. 200	0 - 5

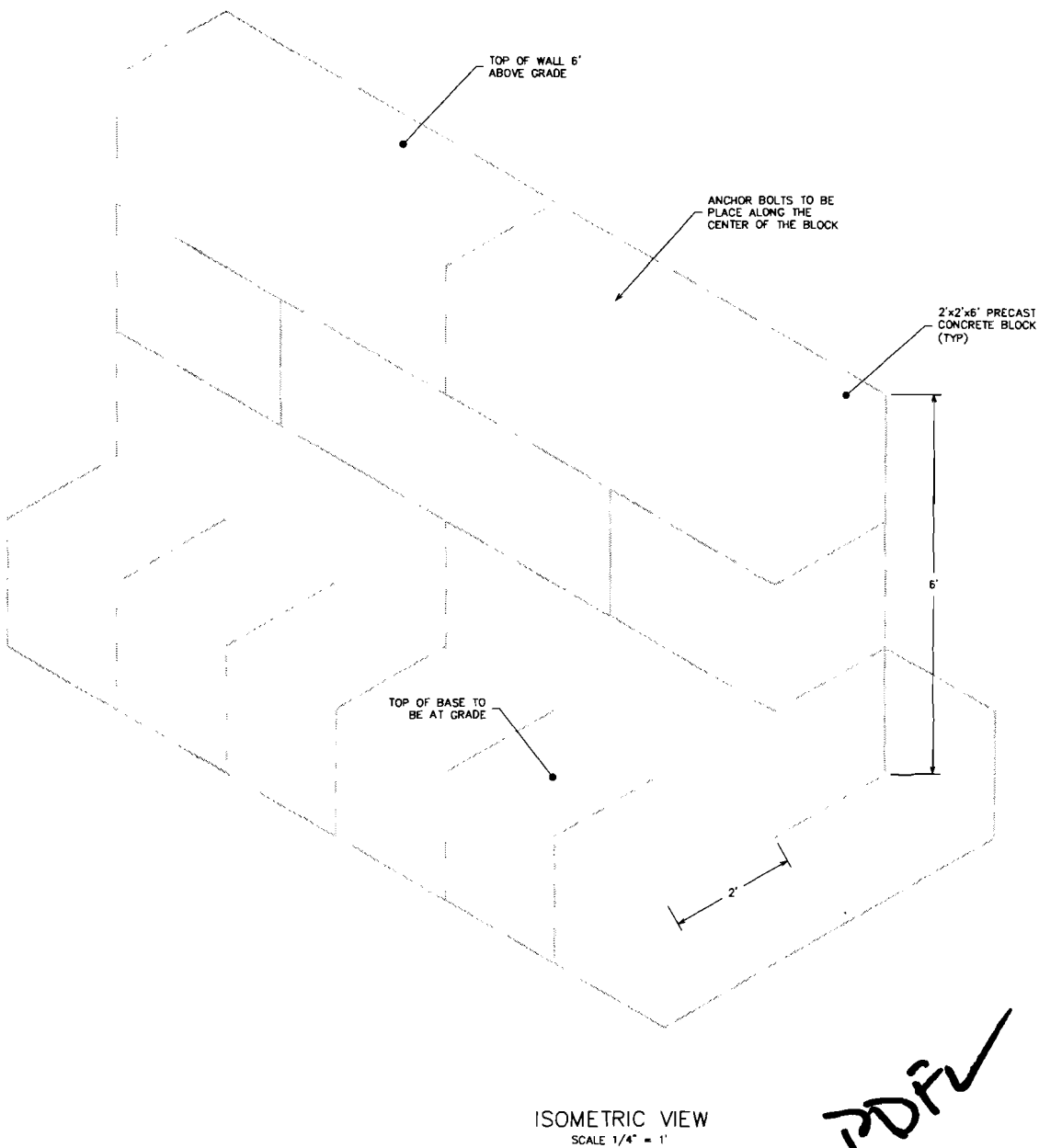
5. FOOTINGS SHALL NOT BE PLACED ON FROZEN GROUND AND AND EXCAVATIONS SHALL BE FREE OF WATER.
6. THE BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE A MINIMUM OF 24" BELOW FINISH EXTERIOR GRADE.
7. FOOTING AND WALL ELEVATIONS ARE BASED ON A FIRST FLOOR ELEVATION OF 0'-0"

STRUCTURAL DESIGN CRITERIA

1. BUILDING CODE USED FOR DESIGN IS THE 2009 INTERNATIONAL BUILDING CODE (IBC).
2. SNOW LOAD:  
GROUND SNOW LOAD,  $P_g = 50$  PSF  
IMPORTANCE FACTOR,  $I = 0.8$   
EXPOSURE FACTOR,  $C_e = 0.9$   
THERMAL FACTOR,  $C_t = 1.2$
3. WIND LOAD:  
BASIC WIND SPEED,  $V = 100$  MPH  
IMPORTANCE FACTOR,  $I = 0.87$   
EXPOSURE CATEGORY (MAIN WIND FORCE RESISTING SYSTEM) = C  
EXPOSURE CATEGORY (COMPONENTS AND CLADDING) = C
4. SEISMIC LOAD:  
SEISMIC IMPORTANCE FACTOR = 1.0  
SITE CLASS = E  
SPECTRAL RESPONSE COEFFICIENTS,  $S_s = 0.35$ ,  $S_1 = 0.077$   
SEISMIC DESIGN CATEGORY = D


INDEX OF SHEETS

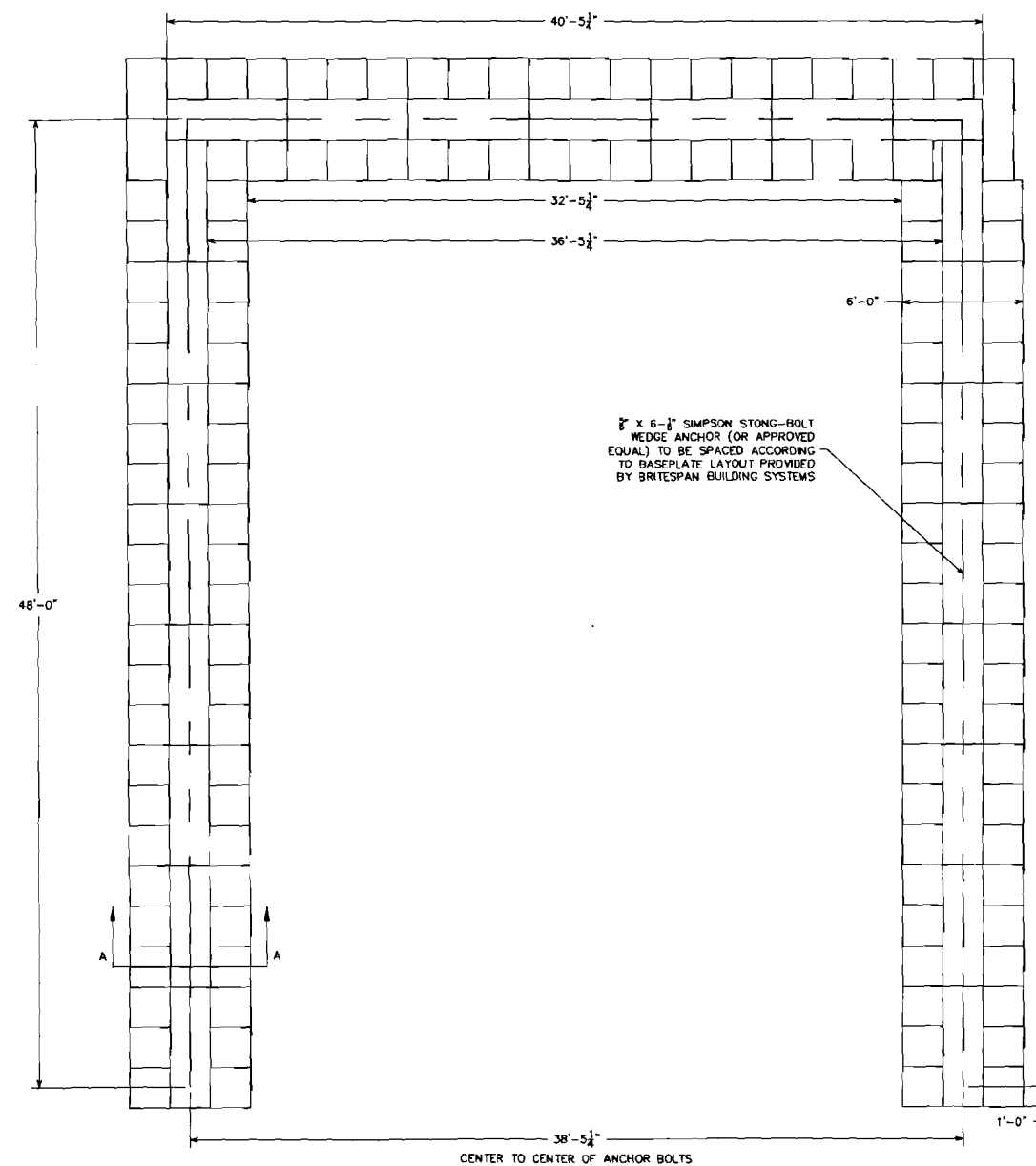
- S-1 COVER SHEET AND STRUCTURAL NOTES
- S-2 BUILDING SECTIONS



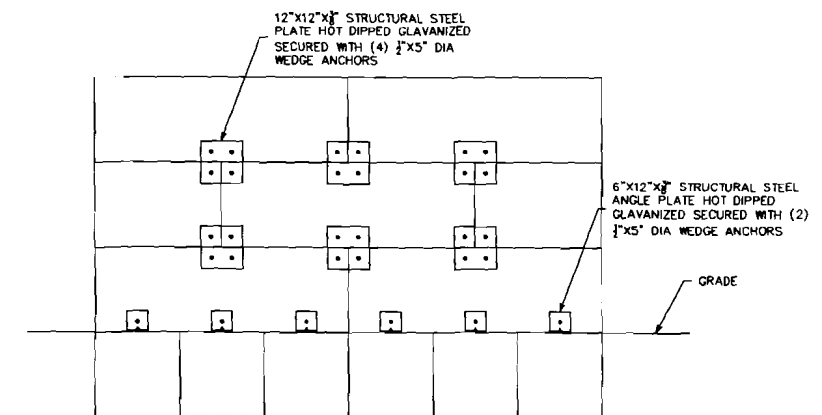
PDF

COVER SHEET AND STRUCTURAL NOTES

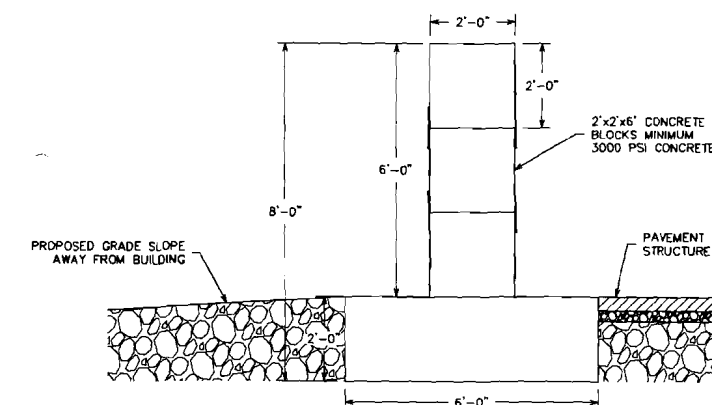
PRELIMINARY BID SET - NOT FOR CONSTRUCTION		S-1	SALT SHED FOUNDATION 144 HUTCHINS DRIVE PORTLAND, MAINE		
			FOR: PHOENIX PROPERTY SERVICES PO BOX 759 SACO, ME 04072-5118		
			ATTAR ENGINEERING, INC. CIVIL • STRUCTURAL • MARINE 1284 STATE ROAD - ELIOT, MAINE 03903 PHONE: (207)439-6023 FAX: (207)439-2128		
			SCALE: AS NOTED DATE: 12/15/11	APPROVED BY:	DRAWN BY: CLS REVISION : DATE - : -
A. ADDED SHEET C-1 TO INDEX. 10/22/09			JOB NO: C010-11 CAD FILE: HUTCHINS BASE SHEET 1 OF 2		
NO.	DESCRIPTION	DATE			
REVISIONS					



PLAN VIEW  
SCALE: 1/4" = 1'



PLAN VIEW  
SCALE: 1/2" = 1'



SECTION VIEW A-A  
SCALE: 1/2" = 1'

PRELIMINARY  
BID SET - NOT FOR CONSTRUCTION

S-1

FOUNDATION PLAN AND DETAILS

SALT SHED FOUNDATION  
144 HUTCHINS DRIVE  
PORTLAND, MAINE

FOR: PHOENIX PROPERTY SERVICES  
PO BOX 759  
SACO, ME 04072-5118

ATTAR ENGINEERING, INC.  
CIVIL • STRUCTURAL • MARINE  
1284 STATE ROAD - ELLIOT, MAINE 03903  
PHONE: (207)439-6023 FAX: (207)439-2128

SCALE:  
AS NOTED

APPROVED BY:

DRAWN BY:

DATE:

REVISION : DATE

DATE

JOB NO: C010-11

CAD FILE: HUTCHINS BASE

SHEET 2 OF 2

# **Final Report of Special Inspections**

**New Building for Phoenix Property Management**  
Portland, Maine

July 27, 2012

Prepared By:

M<sup>2</sup> Structural Engineering, P.C.  
23 Thornbury Way  
Windham, ME 04062

**Project No. 11128**

RECEIVED

AUG 17 2012

Dept. of Building Inspections  
City of Portland Maine

Project: New Building for Phoenix Property Management  
Date Prepared: December 6, 2011

## Structural Statement of Special Inspections (Continued)

### Final Report of Special Inspections (SSIC/SI 1)

[To be completed by the Structural Special Inspections Coordinator (SSIC/SI 1). Note that all Agent's Final Reports must be received prior to issuance.]

Project: *New Building for Phoenix Property Management*

Location: *Hutchins Road, Portland, ME*

Owner: *Phoenix Property Management*

Owner's Address: *PO Box 759  
Saco, Maine 04072*

Architect of Record: *N/A* *N/A*  
(name) (firm)

Structural Registered Design  
Professional in Responsible Charge: *Various*  
(name) (firm)

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

*The SI team was not notified of a concrete placement for the foundation walls, and therefore cylinders for testing of the concrete were not cast. It was discussed that cores would be taken from the in place concrete for testing. M<sup>2</sup> SE was not notified of the results of the core samples.*


Respectfully submitted,  
Structural Special Inspection Coordinator

Matthew J. Miller, P.E.

(Type or print name)

M<sup>2</sup> Structural Engineering, P.C.

(Firm Name)



Signature

07/27/2012

Date





**Project: New Building for Phoenix Property Management**  
**Date Prepared: December 6, 2011**

## **Structural Statement of Special Inspections (Continued)**

### **Special Inspector's/Agent's Final Report**

Project: *New Building for Phoenix Property Management*  
Special Inspector or Agent: Roger Domingo S.W. COLE ENGINEERING, INC.  
(name) (firm)  
Designation:

To the best of my information, knowledge and belief, the Special Inspections or testing required for this project, and designated for this Inspector/Agent in the *Statement of Special Inspections* submitted for permit, have been performed and all discovered discrepancies have been reported and resolved.

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

Respectfully submitted,  
Special Inspector or Agent:

Roger Domingo

(Type or print name)

*Roger E Domingo*

7/25/2012

Signature

Date

**Licensed Professional Seal or  
Certification Number**

# Fabricator's Certificate of Compliance

---

Each approved fabricator that is exempt from Special Inspection of shop fabrication and implementation procedures per section 1704.2 of the International Building Code must submit a *Fabricator's Certificate of Compliance* at the completion of fabrication.

Project: Phoenix Property Management – Maintenance Building

Fabricator's Name: Corle

Address: 114 Rosemont Lane, Imber PA 16655

Certification or Approval Agency:

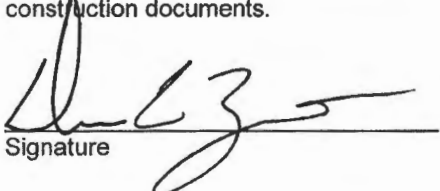
Certification Number:

Date of Last Audit or Approval:

Description of structural members and assemblies that have been fabricated:

**Pre-Manufactured Metal Building System**

I hereby certify that items described above were fabricated in strict accordance with the approved construction documents.

  
Signature

07-25-12  
Date

ENGINEERING MANAGER  
Title

Attach copies of fabricator's certification or building code evaluation service report and fabricator's quality control manual

International Accreditation Service

# CERTIFICATE OF ACCREDITATION

*This is to signify that*

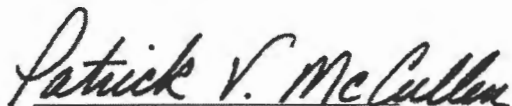
## CORLE BUILDING SYSTEMS, INC.

404 SARAH FURNACE ROAD  
IMLER, PENNSYLVANIA 16655

Inspection Program for the Manufacture of Metal Building Systems MB-146

has demonstrated that its in-plant inspection program for Part A-Fabrication of Structural Weldments and Cold-formed Products Requiring Welding, Part B-Fabrication of Cold-formed Products Not Requiring Welding, and Part C-Design of Metal Building Systems is in compliance with the International Accreditation Service, Inc., Accreditation Criteria for Inspection Programs for Manufacturers of Metal Building Systems (AC472) and is recognized under Section 1704.2.5.2 of the 2012 *International Building Code*®, and Section 1704.2.2 of earlier code editions, commencing March 1, 2012; expiring February 28, 2013.

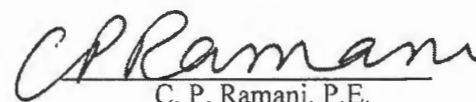
Fabrication inspection procedures covered by this certificate are conducted in accordance with the fabricator's approved quality control manual. Periodic plant inspections are conducted by Farabaugh Engineering and Testing Inc. (AA-715), at 404 Sarah Furnace Road, Imler, Pennsylvania, to monitor the fabricator's quality management system verifying continual compliance with the requirements as listed in the above scope of accreditation. Accreditation is limited to the specified inspections related to the fabrication processes and procedures only. Accreditation does not cover the product, or the design or performance characteristics of the fabricated product.



Patrick V. McCullen  
Vice President



ACCREDITED



C. P. Ramani, P.E.  
President

Print Date: 04/04/2012

This accreditation certificate supersedes any IAS accreditation certificate bearing an earlier date. The certificate becomes invalid upon suspension, cancellation or revocation of accreditation. See the IAS Accreditation Listings on the web at [www.iasonline.org](http://www.iasonline.org) for current accreditation information, or contact IAS directly at (562) 364-8201.

**Report No. 03-001**

Date: December 22, 2011

Project: Phoenix Property Management – Hutchins Drive, Portland, ME

Project Number: 11128

Time at Site: 2:00 pm – 2:30 pm

Weather: Sunny, High 40's °F

Present at Site: Matthew J. Miller, P.E. (M2SE)

---

**Area(s) of Observations:**

- Foundation walls and piers along Line F from 1 - 6

**Observations:**

1. The reinforcing steel and formwork for the walls and piers had been installed at the above referenced locations. Due to the height of the forms observations along the entire length of the wall was not possible. Observations were made at each pier location. At these locations the size, spacings, and clear cover distances were found to be in general conformance with the contract documents.
2. It was noted and discussed with Randy of Randy Concrete that the anchor rods had not been installed. M2SE notified Randy that in accordance with General Note 7 on the foundation drawings that the anchor rods are to be set and leveled prior to concrete placement. The anchor rods were in the process of being set and leveled in the pier at 6/F while M2SE was on site. A concrete truck had arrived while M2SE was on site. M2SE did not verify the installation of the anchor rods at other pier locations.
3. The concrete for this placement was supplied through Auburn Concrete. The batch ticket indicated that the concrete was a 3000 psi, air entrained concrete mix with ¾" aggregate. Testing of the concrete was not performed since neither M2SE nor S.W. Cole Engineering was notified of the placement. **Required testing in accordance with the Statement of Special Inspections for this placement was not completed.**
4. Based on observations made by M2SE and our discussions with Roger Domingo of S.W. Cole, the soil material at the foundation bearing elevations appeared to be primarily clay. In accordance with chapter 18 of the 2009 International Building code, the presumptive bearing capacity for this material would be approximately

1500 psf. In accordance with General Note #3 on the Foundation Plan prepared by Theodore Greenlaw, the foundation was designed based on a soil bearing capacity of 2500 psf. **The suitability of the foundation design for the actual site conditions should be verified by the Engineer of Record (EOR).**

**Non-Conformance Items:**

1. Refer to item 3 above: Concrete testing for this placement was not completed. EOR shall provide direction on in-situ concrete testing or shall determine whether an exception to this concrete testing in accordance with Section 1704.4 of the 2009 International Building Code may be applied.
2. Refer to item 4 above: The presumptive bearing capacity in accordance with the 2009 International Building Code for bearing on clay is less than the bearing capacity used in the design of the foundation. The EOR shall verify the adequacy of the foundation design or provide alternate foundation details.

**Report No. 03-002**

Date: December 29, 2011  
Project: Phoenix Property Management – Hutchins Drive, Portland, ME  
Project Number: 11128  
Time at Site: 12:00 pm – 12:30 pm  
Weather: Sunny, Low 30's °F  
Present at Site: Matthew J. Miller, P.E. (M2SE)

---

**Area(s) of Observations:**

- Foundation walls along Line 1 and Line A from 1-2

**Observations:**

1. The reinforcing steel and formwork for the walls and piers had been installed at the above referenced locations. The size, spacing and location of the reinforcing steel for the walls were observed and were in conformance with the contract documents. The pier reinforcing could not be verified since the forms had been erected and the anchor rods had been set in templates which covered the entire pier therefore blocking access to these locations.

**Non-Conformance Items:**

No non-conformance items were noted during this visit.

**Report No. 03-003**

Date: February 7, 2012

Project: Phoenix Property Management – Hutchins Drive, Portland, ME

Project Number: 11128

Time at Site: 1:45 pm – 2:15 pm

Weather: Cloudy, Upper 30's °F

Present at Site: Matthew J. Miller, P.E. (M2SE)

---

**Area(s) of Observations:**

- Salt Storage Shed foundations

**Observations:**

1. Installation of the reinforcing steel for the salt storage shed was in progress, with the majority of the footing reinforcing installed. The sizes and spacing of the reinforcing was observed and was in general conformance with the contract documents.
2. Several areas were noted where the clear cover at the bottom of the footing was not in conformance. M2SE notified Randy of Randy's Concrete. M2SE was informed that they were having some concrete bricks delivered to support the bars.
3. Installation of the wall dowels for the exterior mat had just started while we were on site. The spacing of the bars was observed to be in conformance with the contract documents.
4. Several isolated areas were noted where standing water was present at the bottom of the footing. M2SE was informed that the water would be pumped out prior to concrete placement.

**Non-Conformance Items:**

No non-conformance items were noted during this visit.

**Report No. 05-001**

Date: December 29, 2011  
Project: Phoenix Property Management – Hutchins Drive, Portland, ME  
Project Number: 11128  
Time at Site: 10:15 am – 11:00 am  
Weather: Sunny, Low 30's °F  
Present at Site: Matthew J. Miller, P.E. (M2SE)

---

**Area(s) of Observations:**

- Metal Building Framing

**Observations:**

1. The erection of the primary framing for the metal building was substantially complete. Seacoast Crane and Building Co. was on site continuing to install the light gage eave and rake framing.
2. M2SE reviewed the sizes, spacings and details of the framing members. Physical measurements were limited to the members that were accessible from the ground level. The sizes of members at higher elevations were estimated. Based on our review, the building was in conformance with the contract documents.
3. Final installation of the lateral system, including tightening of the cable bracing and anchor rods had not been completed to date.

**Non-Conformance Items:**

No non-conformance items were noted during this visit.



**Report No. 05-002**

Date: February 3, 2011  
Project: Phoenix Property Management – Hutchins Drive, Portland, ME  
Project Number: 11128  
Time at Site: 8:45 am – 9:15 am  
Weather: Sunny, mid 20's °F  
Present at Site: Matthew J. Miller, P.E. (M2SE)

---

**Area(s) of Observations:**

- Metal Building Framing

**Observations:**

1. The erection of the primary framing for the metal building was significantly complete. Seacoast Crane and Building Co. was on site installing the roof insulation and decking. Approximately ½ of the roof had been decked over.
2. The siding on three side of the building had been installed.
3. Tightening of the cable bracing and anchor rods appeared to have been completed, although temporary cable bracing was still in place.
4. The nuts on the anchor rods at Line A/4 did not fully engage the anchor rods. The top of the anchor rod was approximately 1/4" below the top of the nut. The Engineer of Record should review this condition and provide direction as necessary.

**Non-Conformance Items:**

Refer to Item #4 above: The nuts on the anchor rods at Line A/4 did not fully engage the anchor rods.

**STRUCTURAL ENGINEER OF RECORD (S.E.R.) RESPONSE:** (Provide attachment(s) as required)

**S.E.R.**  
**Signature:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**Is re-inspection by Special Inspector required?**

**Yes**  
☐

**No**  
☐

**CONTRACTOR VERIFICATION:** (To be completed by either the General Contractor or sub-contractor responsible for portion of work in non-conformance and returned to the Special Inspector and Structural Engineer of Record)

I verify, that as of the date listed below, that the non-conforming item(s) noted above has (have) been corrected as required.

Date Completed: \_\_\_\_\_

By: \_\_\_\_\_  
(Signed)

\_\_\_\_\_  
(Print name)

\_\_\_\_\_  
(Company)



## Report of Concrete Compressive Strength

ASTM C-31 & C-39

**Project Name:** Portland ME - 144 Hutchins Drive - Materials Testing

**Project Number:** 11-1295

**Client:** Phoenix Management

**Client Contract Number:**

**General Contractor:**

**Concrete Supplier:** AUBURN CONCRETE

### PLACEMENT INFORMATION

**Date Cast:** 12/20/2011 **Time Cast:** 13:15

**Date Received:** 12/21/2011

**Placement Location:** SIDE C & D FOOTINGS

**Placement Method:** REAR DISCHARGE

**Placement Vol. (yd³):**

**Cylinders Made By:** ERIK COHENOUR

**Aggregate Size (in):** 3/4

### INITIAL CURING CONDITIONS

#### Temperatures

**Minimum (°F)** **Maximum (°F)**

### DELIVERY INFORMATION

**Admixtures:** HOT WATER  
MID RANGE  
POZZUTEC 20 1%  
AIR ENTRAINER

### TEST RESULTS

**Slump (in) (C-143):** **Slump WR:** 6.5

**Load Number:** 2

**Air Content (%) (C-231):** **Air WR:** 7.0

**Mixer Number:** 78

**Air Temp (°F):** 35

**Ticket Number:** 197891

**Conc. Temp (°F) (C-1064):** 65

**Cubic Yards:** 10

**Design (psi):** 3000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In)²	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
346-1A		4.00	12.57	12/27/2011	Lab	7	4	43.5	3460
346-1B		4.00	12.57	1/17/2012	Lab	28	4	53.0	4220
346-1C		4.00	12.57	1/17/2012	Lab	28	4	49.4	3930
346-1D				Hold	Lab				

#### Fracture Types



Cone



Cone and Split



Cone and Shear



Shear



Columnar

**Remarks:**



## Report of Concrete Compressive Strength

ASTM C-31 & C-39

Project Name: Portland ME - 144 Hutchins Drive - Materials Testing

Project Number: 11-1295

Client: Phoenix Management

Client Contract Number:

General  
Contractor:

Concrete  
Supplier: AUBURN CONCRETE

### PLACEMENT INFORMATION

Date Cast: 12/28/2011 Time Cast: 3:11

Date Received: 12/29/2011

Placement Location: FRONT WALL - FOOTING

Placement Method: TAILGATE

Placement Vol. (yd<sup>3</sup>): 10

Cylinders Made By: CHRISTOPHER HENES

Aggregate Size (in): 3/4

### INITIAL CURING CONDITIONS

#### Temperatures

Minimum (°F) Maximum (°F)

### DELIVERY INFORMATION

Admixtures: POZZUTEC

### TEST RESULTS

Slump (in) (C-143): Slump WR: 5

Load Number: 1

Air Content (%) (C-231): Air WR: 7.8

Mixer Number: 86

Air Temp (°F): 47

Ticket Number 197997

Conc. Temp (°F) (C-1064): 71

Cubic Yards: 10

Design (psi): 3000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area (in <sup>2</sup> )	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
346-2A		4.00	12.57	1/4/2012	Lab	7	4	51.3	4080
346-2B		4.00	12.57	1/25/2012	Lab	28	4	59.4	4730
346-2C		4.00	12.57	1/25/2012	Lab	28	4	57.0	4540
346-2D				Hold	Lab				

#### Fracture Types



Cone



Cone and Split



Cone and Shear



Shear



Columnar

Remarks:



## Report of Concrete Compressive Strength

ASTM C-31 & C-39

Project Name: Portland ME - 144 Hutchins Drive - Materials Testing

Project Number: 11-1295

Client: Phoenix Management

Client Contract Number:

General  
Contractor:

Concrete  
Supplier: AUBURN CONCRETE

### PLACEMENT INFORMATION

Date Cast: 12/29/2011 Time Cast:

Date Received: 12/30/2011

Placement Location: NORTH & EAST WALLS

Placement Method: REAR DISCHARGE

Placement Vol. (yd<sup>3</sup>): 15

Cylinders Made By: ERIK COHENOUR

Aggregate Size (in): 3/4

### INITIAL CURING CONDITIONS

#### Temperatures

Minimum (°F) Maximum (°F)

### DELIVERY INFORMATION

Admixtures: HOT WATER  
GLENIUM 7500  
MICRO AIR  
POZZ 20 1%

### TEST RESULTS

Slump (in) (C-143): 5  
Air Content (%) (C-231): 6.5 Air WR: 60  
Air Temp (°F): 13  
Conc. Temp (°F) (C-1064): 32

Load Number: 1  
Mixer Number: 99  
Ticket Number 198020  
Cubic Yards: 7.55  
Design (psi): 3000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
346-3A		4.00	12.57	1/5/2012	Lab	7	4	46.6	3710
346-3B		4.00	12.57	1/26/2012	Lab	28	4	66.8	5320
346-3C		4.00	12.57	1/26/2012	Lab	28	4	65.6	5220
346-3D				Hold	Lab				

#### Fracture Types



Cone



Cone and Split



Cone and Shear



Shear



Columnar

Remarks:



## Report of Concrete Compressive Strength

ASTM C-31 & C-39

Project Name: Portland ME - 144 Hutchins Drive - Materials Testing

Project Number: 11-1295

Client: Phoenix Management

Client Contract Number:

General Contractor:

Concrete Supplier: AUBURN CONCRETE

### PLACEMENT INFORMATION

Date Cast: 2/8/2012 Time Cast: 9:30

Date Received: 2/9/2012

Placement Location: SALT SHED FOOTING

Placement Method: TELEBELT

Placement Vol. (yd<sup>3</sup>): 73.5

Cylinders Made By: ERIK COHENOUR

Aggregate Size (in): 3/4

### INITIAL CURING CONDITIONS

#### Temperatures

Minimum (°F) Maximum (°F)

### DELIVERY INFORMATION

Admixtures: MICRO AIR  
GLENIUM  
POZZUTEC 20 1%

### TEST RESULTS

Slump (in) (C-143): Slump WR: 2.5

Load Number: 3

Air Content (%) (C-231): Air WR: 5.3

Mixer Number: 84

Air Temp (°F): 20

Ticket Number 191355

Conc. Temp (°F) (C-1064): 55

Cubic Yards: 10

Design (psi): 3000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
346-4A		4.00	12.57	2/15/2012	Lab	7	4	59.4	4730
346-4B		4.00	12.57	3/7/2012	Lab	28	4	69.6	5540
346-4C		4.00	12.57	3/7/2012	Lab	28	4	67.8	5400
346-4D				Hold	Lab				

#### Fracture Types



Cone



Cone and Split



Cone and Shear



Shear



Columnar

Remarks:



## Report of Concrete Compressive Strength

ASTM C-31 & C-39

Project Name: Portland ME - 144 Hutchins Drive - Materials Testing

Project Number: 11-1295

Client: Phoenix Management

Client Contract Number:

General  
Contractor:

Concrete  
Supplier: AUBURN CONCRETE

### PLACEMENT INFORMATION

Date Cast: 2/8/2012 Time Cast: 10:30

Date Received: 2/9/2012

Placement Location: SALT SHED FOOTING

Placement Method: TELEBELT

Placement Vol. (yd<sup>3</sup>): 73.5

Cylinders Made By: ERIK COHENOUR

Aggregate Size (in): 3/4

### INITIAL CURING CONDITIONS

#### Temperatures

Minimum (°F) Maximum (°F)

### DELIVERY INFORMATION

Admixtures: MICRO AIR  
GLENIUM  
POZZUTEC 20 1%

### TEST RESULTS

Slump (in) (C-143): Slump WR: 4.5

Load Number: 6

Air Content (%) (C-231): Air WR: 6.5

Mixer Number: 99

Air Temp (°F): 25

Ticket Number 191361

Conc. Temp (°F) (C-1064): 61

Cubic Yards: 10

Design (psi): 3000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In <sup>2</sup> )	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
346-5A		4.00	12.57	2/15/2012	Lab	7	4	55.2	4390
346-5B		4.00	12.57	3/7/2012	Lab	28	4	63.5	5050
346-5C		4.00	12.57	3/7/2012	Lab	28	4	65.4	5210
346-5D				Hold	Lab				

#### Fracture Types



Cone



Cone and Split



Cone and Shear



Shear



Columnar

Remarks:



## Report of Concrete Compressive Strength

ASTM C-31 & C-39

**Project Name:** Portland ME - 144 Hutchins Drive - Materials Testing

**Project Number:** 11-1295

**Client:** Phoenix Management

**Client Contract Number:**

**General Contractor:**

**Concrete Supplier:** AUBURN CONCRETE

### PLACEMENT INFORMATION

**Date Cast:** 2/9/2012 **Time Cast:** 3:30

**Date Received:** 2/10/2012

**Placement Location:** SALT SHED WALLS

**Placement Method:** BELT

**Placement Vol. (yd³):** 42

**Cylinders Made By:** CHRISTOPHER HENES

**Aggregate Size (in):** 3/4

### INITIAL CURING CONDITIONS

#### Temperatures

**Minimum (°F)** **Maximum (°F)**

### DELIVERY INFORMATION

**Admixtures:** MICRO AIR  
POZZUTEC  
GLEN

### TEST RESULTS

**Slump (in) (C-143):** **Slump WR:** 3 3/4

**Load Number:** 4 **Batch** 2:49

**Air Content (%) (C-231):** **Air WR:** 62

**Mixer Number:** 86

**Air Temp (°F):** 43

**Ticket Number** 191405

**Arrive** 3:30

**Conc. Temp (°F) (C-1064):** 69

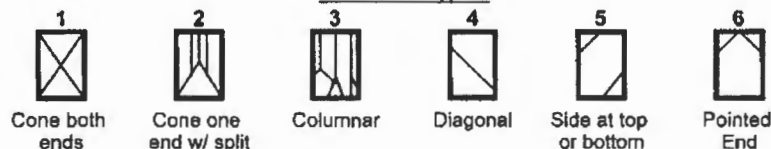
**Cubic Yards:** 10.5

**Depart** 3:36

**Design (psi):** 3000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area (in²)	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
346-6A		4.00	12.57	2/16/2012	Lab	7	4	53.2	4230
346-6B		4.00	12.57	3/8/2012	Lab	28	4	57.4	4570
346-6C		4.00	12.57	3/8/2012	Lab	28	4	60.4	4810
346-6D				Hold	Lab				

#### Fracture Types



**Remarks:**





## Report of Concrete Compressive Strength

ASTM C-31 & C-39

**Project Name:** Portland ME - 144 Hutchins Drive - Materials Testing

**Project Number:** 11-1295

**Client:** Phoenix Management

**Client Contract Number:**

**General Contractor:**

**Concrete Supplier:** F. R. CARROLL

### PLACEMENT INFORMATION

**Date Cast:** 4/6/2012 **Time Cast:** 8:00

**Date Received:** 4/7/2012

**Placement Location:** 1ST FLOOR SLAB

**Placement Method:** PUMP

**Placement Vol. (yd³):** 130

**Cylinders Made By:** JUSTIN BROWN

**Aggregate Size (in):** 3/4

### INITIAL CURING CONDITIONS

#### Temperatures

**Minimum (°F)** **Maximum (°F)**

### DELIVERY INFORMATION

**Admixtures:** FIBER  
POZZUTEC  
SUPER

### TEST RESULTS

**Slump (in) (C-143):** **Slump WR:** 6.5

**Load Number:** 15 **Batch**  
7:00

**Air Content (%) (C-231)** **Air WR:** 2.7

**Mixer Number:** 15 **Arrive**  
7:35

**Air Temp (°F):** 42

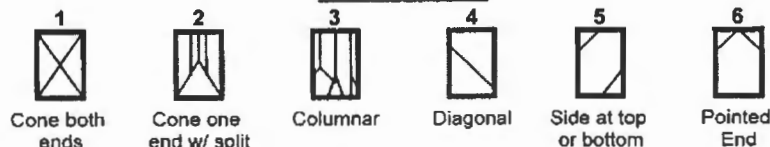
**Ticket Number** 0026044

**Conc. Temp (°F) (C-1064):** 60

**Cubic Yards:** 10 **Design (psi):** 3000 **Depart**  
7:50

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In)²	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
346-7A		4.00	12.57	4/13/2012	Lab	7	4	53.4	4250
346-7B		4.00	12.57	5/4/2012	Lab	28	4	78.6	6260
346-7C		4.00	12.57	5/4/2012	Lab	28	4	78.8	6270
346-7D				Hold	Lab				

#### Fracture Types



**Remarks:**



## Report of Concrete Compressive Strength

ASTM C-31 & C-39

Project Name: Portland ME - 144 Hutchins Drive - Materials Testing

Project Number: 11-1295

Client: Phoenix Management

Client Contract Number:

General  
Contractor:

Concrete  
Supplier: F. R. CARROLL

### PLACEMENT INFORMATION

Date Cast: 4/6/2012 Time Cast: 8:45

Date Received: 4/7/2012

Placement Location: 1ST FLOOR SLAB

Placement Method: PUMP

Placement Vol. (yd<sup>3</sup>): 130

Cylinders Made By: JUSTIN BROWN

Aggregate Size (in): 3/4

### INITIAL CURING CONDITIONS

#### Temperatures

Minimum (°F) Maximum (°F)

### DELIVERY INFORMATION

Admixtures: FIBER  
POZZUTEC  
SUPER

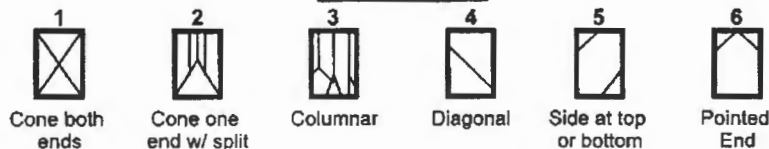
### TEST RESULTS

Slump (in) (C-143): Slump WR: 8  
Air Content (%) (C-231) Air WR: 2.7  
Air Temp (°F): 45  
Conc. Temp (°F) (C-1064): 65

Load Number: 9 Batch  
Mixer Number: 7 7:45  
Ticket Number 0026048 Arrive  
Cubic Yards: 10 8:20  
Design (psi): 3000 Depart

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(in) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
346-8A		4.00	12.57	4/13/2012	Lab	7	4	63.4	5050
346-8B		4.00	12.57	5/4/2012	Lab	28	4	89.6	7130
346-8C		4.00	12.57	5/4/2012	Lab	28	4	87.4	6960
346-8D				Hold	Lab				

#### Fracture Types



Remarks:



## Report of Concrete Compressive Strength

ASTM C-31 & C-39

Project Name: Portland ME - 144 Hutchins Drive - Materials Testing

Project Number: 11-1295

Client: Phoenix Management

Client Contract Number:

General Contractor:

Concrete Supplier: F. R. CARROLL

### PLACEMENT INFORMATION

Date Cast: 4/6/2012 Time Cast: 9:30

Date Received: 4/7/2012

Placement Location: 1ST FLOOR SLAB

Placement Method: PUMP

Placement Vol. (yd<sup>3</sup>): 130

Cylinders Made By: JUSTIN BROWN

Aggregate Size (in): 3/4

### INITIAL CURING CONDITIONS

#### Temperatures

Minimum (°F) Maximum (°F)

### DELIVERY INFORMATION

Admixtures: FIBER  
POZZUTEC  
SUPER

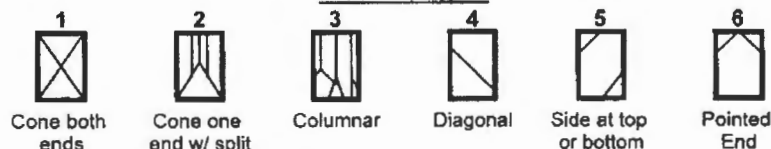
### TEST RESULTS

Slump (in) (C-143): Slump WR: 7  
Air Content (%) (C-231) Air WR: 3.0  
Air Temp (°F): 48  
Conc. Temp (°F) (C-1064): 64

Load Number: 12 Batch  
Mixer Number: 17 8:20  
Ticket Number 0026051 Arrive  
Cubic Yards: 10 8:55  
Design (psi): 3000 Depart

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
346-9A		4.00	12.57	4/13/2012	Lab	7	4	61.8	4920
346-9B		4.00	12.57	5/4/2012	Lab	28	4	92.4	7350
346-9C		4.00	12.57	5/4/2012	Lab	28	4	92.8	7390
346-9D				Hold	Lab				

#### Fracture Types



Remarks:



## Concrete Construction Observation Report

<b>Project Name/Location:</b>	144 Hutchins Drive – Portland	<b>Project No:</b>	11-1295
<b>Client/Client's Rep.:</b>	Phoenix Management	<b>Date:</b>	12-29-2011
<b>Concrete Contractor:</b>	Portland Builders	<b>Sheet:</b>	1 of 1
<b>Placement Location:</b>	North and East walls	<b>SWCE Rep.:</b>	EEC
<b>Placement Type:</b>	Footing <input type="checkbox"/> Wall <input checked="" type="checkbox"/> Column <input type="checkbox"/> Slab <input type="checkbox"/> Other <input type="checkbox"/>	<b>Arrived at Site:</b>	12:35
		<b>Left Site:</b>	14:15

<u>PRE PLACEMENT OBSERVATIONS</u>	<u>In Compliance</u>		<u>N/O</u>	<u>Comments</u>
Bar Size (diameter, length, bend and anchorage)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Location (# of bars, spacing, and cover)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	
Splicing (weld joint, overlap)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	
Stability (wiring, chairs, and spacers)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	
Reinforcement free from mud, oil, rust, or other nonmetallic coatings	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	
Reinforcement appears in conformance to specifications	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	
Soil subgrade prepared in accordance with project specifications	Yes <input type="checkbox"/>	No <input type="checkbox"/>	<input checked="" type="checkbox"/>	N/A

<u>Referenced Drawings</u>	<u>Date</u>	<u>Page</u>	<u>Rev.</u>	<u>ASTM</u>	<u>GRADE</u>
FOUNDATION REINF.	12-5-11	R01		A 615 <input checked="" type="checkbox"/>	40 <input type="checkbox"/> 50 <input type="checkbox"/> 60 <input checked="" type="checkbox"/>
				A 616 <input type="checkbox"/>	75 <input type="checkbox"/>
				A 617 <input type="checkbox"/>	
				A 706 <input type="checkbox"/>	A 775 Epoxy <input type="checkbox"/>

<u>CONCRETE PLACEMENT OBSERVATIONS</u>	<u>In Compliance</u>		<u>N/O</u>	<u>Comments</u>
Required mix used	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	3000psi
Placement and consolidation of concrete observed	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	
Concrete properly conveyed to all areas of placement	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	
Depth of layer maximum limits not exceeded	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	
Even layering around openings and embedments	Yes <input type="checkbox"/>	No <input type="checkbox"/>	<input checked="" type="checkbox"/>	
Removal of temporary ties and spacers	Yes <input type="checkbox"/>	No <input type="checkbox"/>	<input checked="" type="checkbox"/>	

<u>FIELD TESTING OF CONCRETE PERFORMED</u>	<u>In Compliance</u>	<u>N/O</u>	<u>Comments</u>
*CYLINDER SET NO: 346-3	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		←*refer to associated concrete test report

<u>POST PLACEMENT OBSERVATIONS</u>	<u>In Compliance</u>		<u>N/O</u>	<u>Comments</u>
Specified finish	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Trowel
Protection of surfaces from cracking due to rapid drying	Yes <input type="checkbox"/>	No <input type="checkbox"/>	<input checked="" type="checkbox"/>	
Proper curing procedures implemented	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Insulated blankets

<u>NON-CONFORMANCE ITEMS OBSERVED</u>	<u>In Compliance</u>	<u>N/O</u>	<u>Comments</u>
Non-Conformance Item Description:	Yes <input type="checkbox"/> No <input type="checkbox"/>		
Action Taken by SWCE:			
Person(s) Notified:			

N/O = Not Observed

### Notes:

Randy Concrete was placing concrete and rebar. Rebar appeared to be in general accordance with the Construction Drawings. Compression test specimens taken on first truck.

Attachments: None

Reviewed By: RED



## Report of Field Density ASTM D6938

Project: PORTLAND ME - 144 HUTCHINS DRIVE - MATERIALS TESTING

Project Number: 11-1295

Client: PHOENIX MANAGEMENT

### Field Density Test Results

Test #	Test Date	Tech	Test Location	Elev Feet	Test Depth	Lab ID	Dry Density	Moisture Content Percent	Compaction Percent	Required Compaction
1	12/28/2011	CMH	2' W & 10' N OF SE CORNER	95	12	14992G	118.4	5.3	99.0	95
2	12/28/2011	CMH	2' W & 30' N OF SE CORNER	95	12	14992G	112.1	14.5	95.3	95

### Laboratory Compaction Test Reference

Lab ID	Date Received	Material Source	Material Type	Method	Max Dry Density	Optimum Moisture Content (%)	Comments
14992G	12/28/2011	On-site stockpile	Sand	ASTM D-1557 Modified A	117.6	12.4	

Elevation Notes:

Comments:

  
Reviewed By



## Report of Field Density ASTM D6938

Project: PORTLAND ME - 144 HUTCHINS DRIVE - MATERIALS TESTING

Project Number: 11-1295

Client: PHOENIX MANAGEMENT

### Field Density Test Results

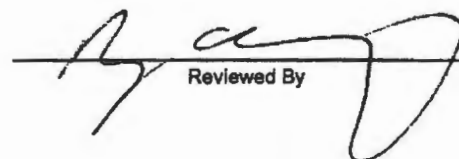
Test #	Test Date	Tech	Test Location	Elev Feet	Test Depth	Lab ID	Dry Density	Moisture Content Percent	Compaction Percent	Required Compaction
3	1/4/2012	JSB	S WALL INTERIOR	58	12	14992G	112.8	2.8	95.9	95
4	1/4/2012	JSB	W WALL INTERIOR	58	12	14992G	112.2	2.3	95.4	95
5	1/4/2012	JSB	N WALL INTERIOR	58	12	14992G	112.9	3.3	96.0	95
6	1/4/2012	JSB	E WALL INTERIOR	58	12	14992G	111.8	2.5	95.1	95

### Laboratory Compaction Test Reference

Lab ID	Date Received	Material Source	Material Type	Method	Max Dry Density	Optimum Moisture Content (%)	Comments
14992G	12/28/2011	On-site stockpile	Sand	ASTM D-1557 Modified A	117.6	12.4	

Elevation Notes:

Comments:

  
Reviewed By

# Report of Gradation

ASTM C-117 &amp; C-136

Project Name PORTLAND ME - 144 HUTCHINS DRIVE - MATERIALS TESTING

Project Number 11-1295

Client PHOENIX MANAGEMENT

Lab ID 14992G

Material Type SAND

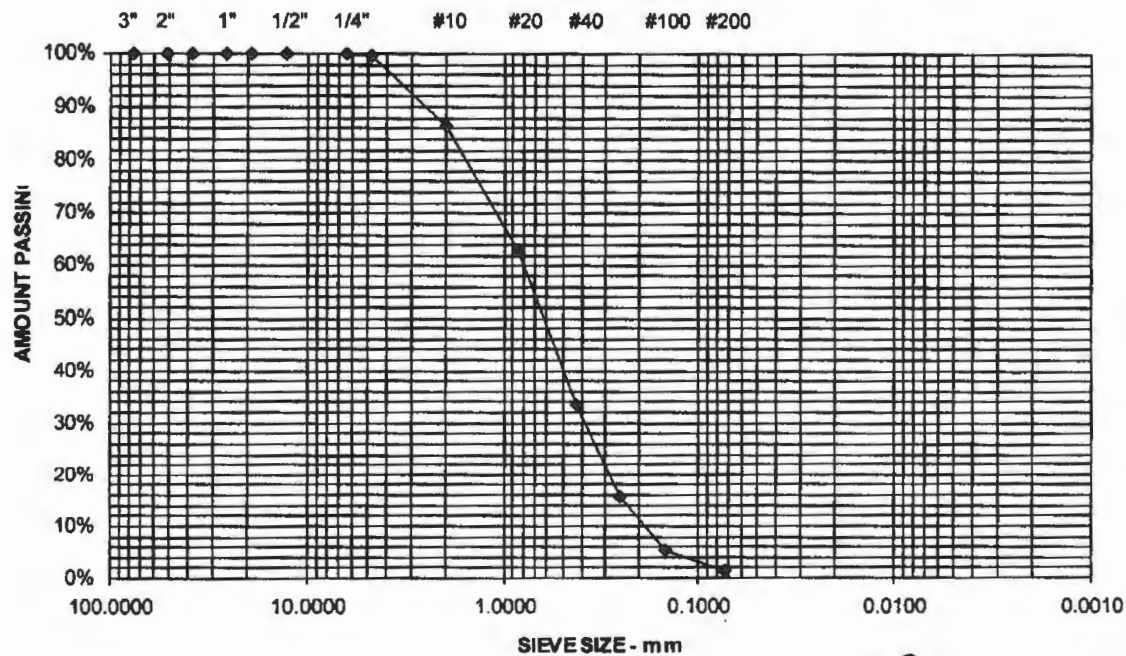
Date Received 12/28/2011

Material Source ON-SITE STOCKPILE

Date Completed 1/3/2012

Tested By ERIK COHENOUR

STANDARD DESIGNATION (mm/μm)	SIEVE SIZE	AMOUNT PASSING (%)	SPECIFICATIONS (%)
150 mm	6"	100	
125 mm	5"	100	
100 mm	4"	100	
75 mm	3"	100	
50 mm	2"	100	
38.1 mm	1-1/2"	100	
25.0 mm	1"	100	
19.0 mm	3/4"	100	
12.5 mm	1/2"	100	
6.3 mm	1/4"	100	
4.75 mm	No. 4	100	
2.00 mm	No. 10	87	
850 μm	No. 20	63	
425 μm	No. 40	34	
250 μm	No. 60	16	
150 μm	No. 100	5	
75 μm	No. 200	1.4	



Comments

Roger E. Domingo



**S.W. COLE**  
ENGINEERING, INC.

# Report of Gradation

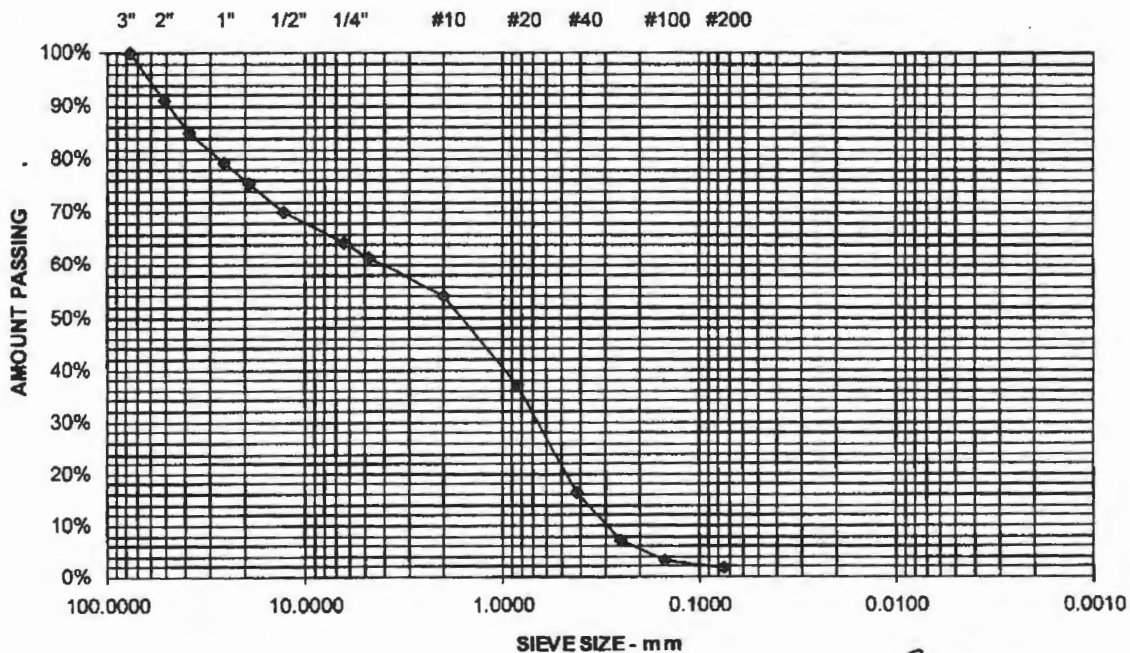
ASTM C-117 & C-136

Project Name PORTLAND ME - 144 HUTCHINS DRIVE - MATERIALS TESTING  
Client PHOENIX MANAGEMENT  
Material Type 4" GRAVEL  
Material Source ON-SITE STOCKPILE

Project Number 11-1295  
Lab ID 14993G  
Date Received 12/28/2011  
Date Completed 1/4/2012  
Tested By JUSTIN BISSON

<u>STANDARD</u> <u>DESIGNATION (mm/um)</u>	<u>SIEVE SIZE</u>	<u>AMOUNT PASSING (%)</u>	<u>MDOT 703.06 TYPE D</u> <u>SPECIFICATIONS (%)</u>
150 mm	6"	100	100
125 mm	5"	100	
100 mm	4"	100	
75 mm	3"	100	
50 mm	2"	91	
38.1 mm	1-1/2"	85	
25.0 mm	1"	79	
19.0 mm	3/4"	75	
12.5 mm	1/2"	70	
6.3 mm	1/4"	64	25 - 70
4.75 mm	No. 4	62	
2.00 mm	No. 10	54	
850 um	No. 20	37	
425 um	No. 40	17	0 - 30
250 um	No. 60	7	
150 um	No. 100	3	
75 um	No. 200	1.8	0.0 - 7.0

SAMPLE MEETS SPECIFICATION



Comments

Roger E. Domingo

286 Portland Road, Gray, ME 04039-9586 • Tel (207) 657-2866 • Fax (207) 657-2840 • [www.swcole.com](http://www.swcole.com)





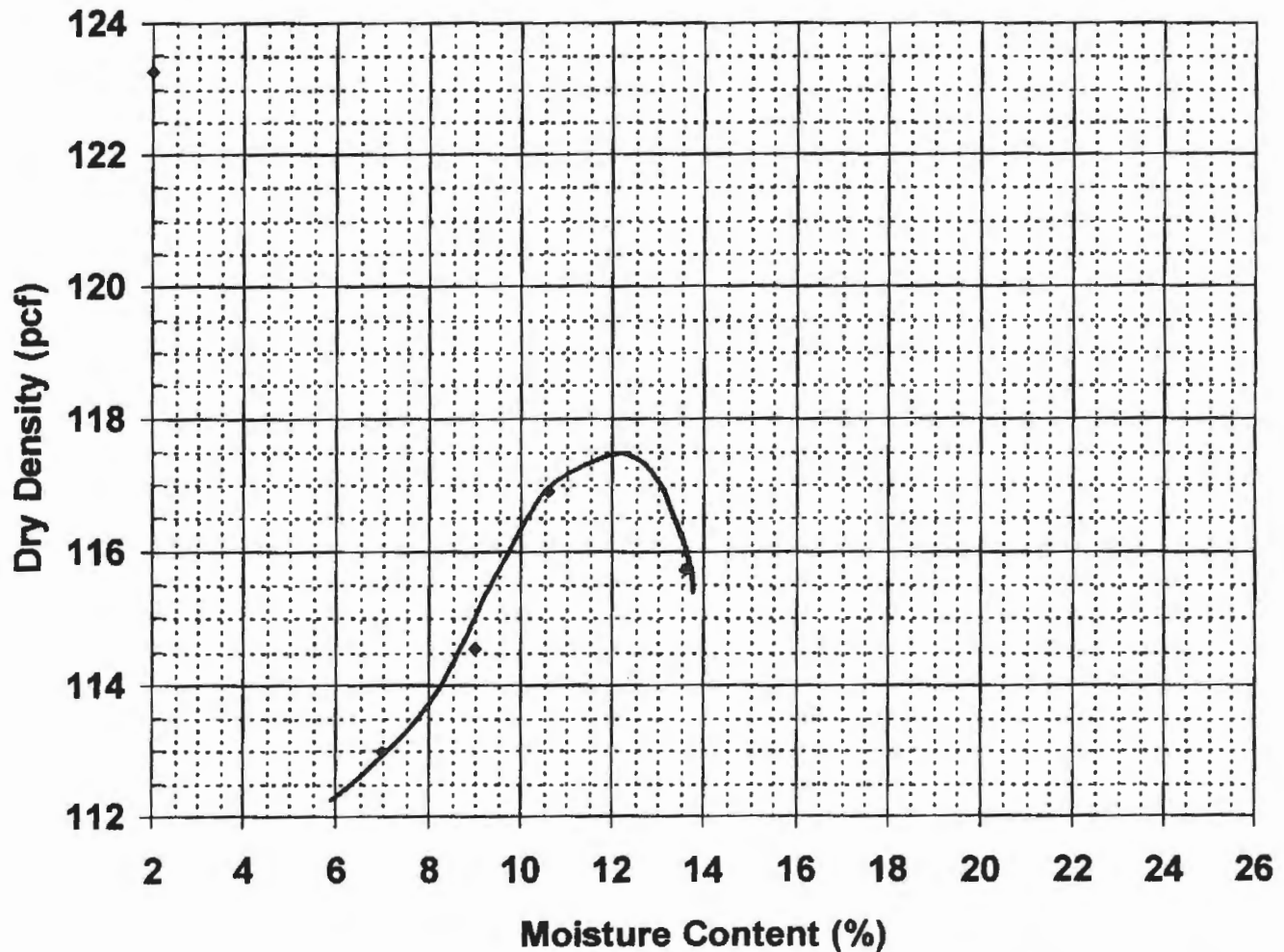
## Report of Moisture-Density

Method ASTM D-1557 MODIFIED

Procedure A

Project Name	PORTLAND ME - 144 HUTCHINS DRIVE - MATERIALS TESTING	Project Number	11-1295
Client	PHOENIX MANAGEMENT	Lab ID	14992G
Material Type	SAND	Date Received	12/28/2011
Material Source	ON-SITE STOCKPILE	Date Completed	1/3/2012
		Tested By	ERIK COHENOUR

### Moisture-Density Relationship Curve



Maximum Dry Density (pcf)	117.5
Optimum Moisture Content (%)	12.4
Percent Oversized	0.2%

<u>Corrected Dry Density (pcf)</u>	<u>117.6</u>
<u>Corrected Moisture Content (%)</u>	<u>12.4</u>

Comments

Roger E. Domingo

286 Portland Road, Gray, ME 04039-9586 • Tel (207) 657-2866 • Fax (207) 657-2840 • [www.swcole.com](http://www.swcole.com)

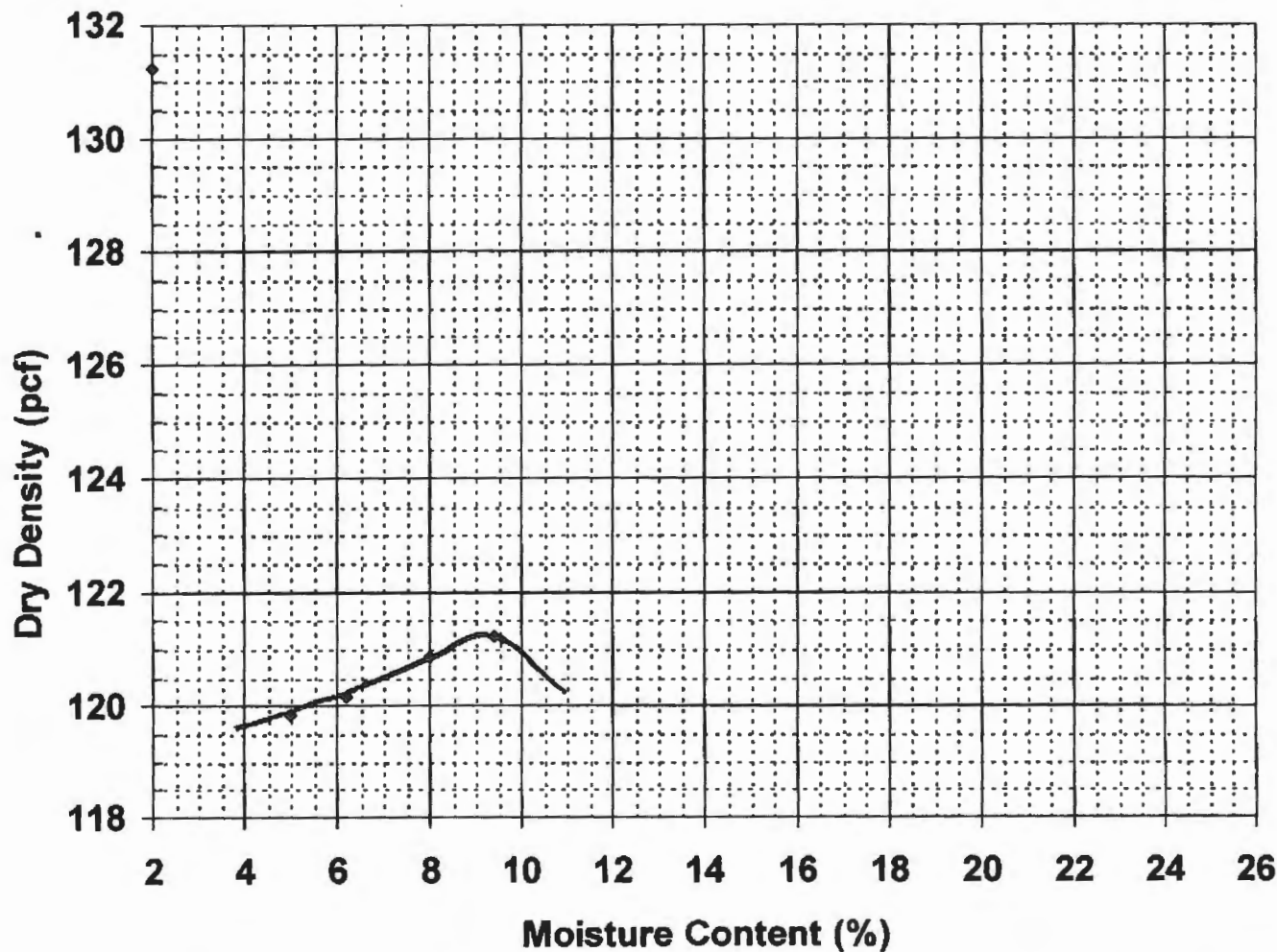
# Report of Moisture-Density

Method ASTM D-1557 MODIFIED

Procedure C

Project Name	PORTLAND ME - 144 HUTCHINS DRIVE - MATERIALS TESTING	Project Number	11-1295
Client	PHOENIX MANAGEMENT	Lab ID	14993G
Material Type	4" GRAVEL	Date Received	12/28/2011
Material Source	ON-SITE STOCKPILE	Date Completed	1/4/2012
		Tested By	ERIK COHENOUR


## Moisture-Density Relationship Curve



Maximum Dry Density (pcf)	121.3
Optimum Moisture Content (%)	9
Percent Oversized	24.5%

<u>Corrected Dry Density (pcf)</u>	<b>128.5</b>
<u>Corrected Moisture Content (%)</u>	<b>7.3</b>

Comments

  
 Roger E. Domingo

286 Portland Road, Gray, ME 04039-9586 • Tel (207) 657-2866 • Fax (207) 657-2840 • www.swcole.com



COMcheck Software Version 3.9.0

# Envelope Compliance Certificate

2009 IECC

## Section 1: Project Information

Project Type: **New Construction**  
Project Title : Pheonix Management

Construction Site:  
Hutchins Drive  
Portland, ME 04101

Owner/Agent:  
Pheonix Management, LLC  
P.O. Box 759  
Saco, ME 04072

Designer/Contractor:  
William Belanger  
Seacoast Crane & Building Co., Inc  
98 Route 236  
P.O. Box 540  
Kittery, ME 03904  
207-439-5899

## Section 2: General Information

Building Location (for weather data): **Portland, Maine**  
Climate Zone: **6a**  
Building Type for Envelope Requirements: **Non-Residential**  
Vertical Glazing / Wall Area Pct.: **0%**

Activity Type(s)  
Warehouse

Floor Area  
7000

RECEIVED  
AUG 17 2012  
Dept. of Building Inspections  
City of Portland Maine

## Section 3: Requirements Checklist

Envelope **PASSES**: Design 15% 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 <sup>(a)</sup>
Roof 1: Metal Building, Screw Down	7726	25.0	10.0	0.057	0.049
Exterior Wall 1: Metal Building Wall	4325	19.0	0.0	0.070	0.069
Window 1: Metal Frame with Thermal Break: Double Pane, Clear, SHGC 0.67	20	---	---	0.480	0.550
Entry Doors: Insulated Metal, Swinging	63	---	---	0.140	0.700
Overhead Doors: Insulated Metal, Swinging	868	---	---	0.070	0.700

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

### Air Leakage, Component Certification, and Vapor Retarder Requirements:

- ☐ 1. All joints and penetrations are caulked, gasketed or covered with a moisture vapor-permeable wrapping material installed in accordance with the manufacturer's installation instructions.
- ☐ 2. Windows, doors, and skylights certified as meeting leakage requirements.
- ☐ 3. Component R-values & U-factors labeled as certified.
- ☐ 4. No roof insulation is installed on a suspended ceiling with removable ceiling panels.
- ☐ 5. 'Other' components have supporting documentation for proposed U-Factors.
- ☐ 6. Insulation installed according to manufacturer's instructions, in substantial contact with the surface being insulated, and in a manner that achieves the rated R-value without compressing the insulation.
- ☐ 7. Stair, elevator shaft vents, and other outdoor air intake and exhaust openings in the building envelope are equipped with motorized dampers.
- ☐ 8. Cargo doors and loading dock doors are weather sealed.

- ☐ 9. Recessed lighting fixtures installed in the building envelope are Type IC rated as meeting ASTM E283, are sealed with gasket or caulk.
- ☐ 10. Building entrance doors have a vestibule equipped with self-closing devices.

Exceptions:

- ☐ Building entrances with revolving doors.
- ☐ Doors not intended to be used as a building entrance.
- ☐ Doors that open directly from a space less than 3000 sq. ft. in area.
- ☐ Doors used primarily to facilitate vehicular movement or materials handling and adjacent personnel doors.
- ☐ Doors opening directly from a sleeping/dwelling unit.

#### Section 4: Compliance Statement

*Compliance Statement:* The proposed envelope design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed envelope system has been designed to meet the 2009 IECC requirements in COMcheck Version 3.9.0 and to comply with the mandatory requirements in the Requirements Checklist.

William J. Belanger III, PM  
Name - Title

W. J. Belanger  
Signature

8-17-2012  
Date

Memorandum  
Department of Planning and Development  
Planning Division

---



TO: Inspections Department

FROM: Philip DiPierro, Development Review Coordinator

DATE: October 16, 2012

RE: C. of O. for # 144 Hutchins Drive, Maintenance Facility  
(Id#2011-287) (CBL 112 H 001001)

---

After visiting the site, I have the following comments:

Site work complete:

At this time, **I recommend issuing a permanent Certificate of Occupancy.**

Cc: Tammy Munson, Inspection Services Manager  
Barbara Barhydt, Development Review Services Manager  
File: 1 Solution