

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK

CITY OF PORTLAND

BUILDING PERMITS SECTION

PERMIT

Permit Number: 090153

Please Read
Application And
Notes, If Any,
Attached

This is to certify that J & H PROPERTIES LLC / CR ELECTRICIAN
has permission to Install a 47kw LP generator on concrete pad outside of the building. Unit is new will have a weather proof hous
ing but will not be enclosed
AT 340 PRESUMPCOT ST CE 422 B058001

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

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

Notification of inspection must be given and written permission procured before this building or part thereof is lathed or otherwise red-in. 24 HOUR NOTICE IS REQUIRED.

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

OTHER REQUIRED APPROVALS

Fire Dept. CAPT. R. Lathrop

Health Dept. _____


Appeal Board _____

Other _____

Department Name

PERMIT ISSUED

MAR 11 2009

CITY OF PORTLAND
PENALTY FOR REMOVING THIS CARD

Director - Building & Inspection Services

City of Portland, Maine - Building or Use Permit Application
 389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

Permit No: 09-0153	Issue Date: 3/1/08	CBL: 422 B058001
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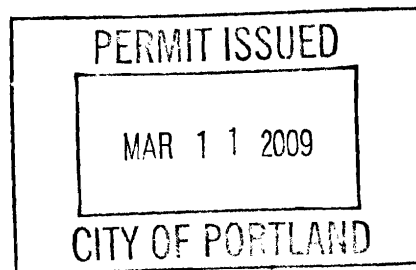
Location of Construction: 340 PRESUMPSCOT ST	Owner Name: J & H PROPERTIES LLC	Owner Address: 56 MAIN ST	Phone:
Business Name:	Contractor Name: CRC ELECTRIC	Contractor Address: 10 LILY LN GORHAM	Phone: 2078389698
Lessee/Buyer's Name	Phone:	Permit Type: Generator	Zone: JL

Past Use: Commercial - warehouse "Pick Edge"	Proposed Use: Commercial - warehouse - Install a 47kw LP generator on a concrete pad outside of the building. Unit is new will have a weather proof housing but will not be enclosed	Permit Fee: \$310.00	Cost of Work: \$29,000.00	CEO District: 4
Proposed Project Description: Install a 47kw LP generator on a concrete pad outside of the building. Unit is new will have a weather proof housing but will not be enclosed		FIRE DEPT: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied * See Conditions	INSPECTION: Use Group: S/O Type: VB IR-2003 Signature: [Signature]	
		PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.) Action: <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied Signature: _____ Date: _____		

Permit Taken By: Ldobson	Date Applied For: 02/25/2009	Zoning Approval
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- This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.
- Building permits do not include plumbing, septic or electrical work.
- Building permits are void if work is not started within six (6) months of the date of issuance. False information may invalidate a building permit and stop all work..

Special Zone or Reviews	Zoning Appeal	Historic Preservation
<input type="checkbox"/> Shoreland	<input type="checkbox"/> Variance	<input checked="" type="checkbox"/> Not in District or Landmark
<input type="checkbox"/> Wetland	<input type="checkbox"/> Miscellaneous	<input type="checkbox"/> Does Not Require Review
<input type="checkbox"/> Flood Zone	<input type="checkbox"/> Conditional Use	<input type="checkbox"/> Requires Review
<input type="checkbox"/> Subdivision	<input type="checkbox"/> Interpretation	<input type="checkbox"/> Approved
<input checked="" type="checkbox"/> Site Plan Exemption 2009-0023 Maj <input type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/> OK w/condition Date: 2/26/09 ABM	<input type="checkbox"/> Approved	<input type="checkbox"/> Approved w/Conditions
	<input type="checkbox"/> Denied	<input type="checkbox"/> Denied ABM
	Date: _____	Date: _____



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

03/13/09 Site meeting with electrician to
Go over Generator placement
& transfer switch

~~MB~~

City of Portland, Maine - Building or Use Permit

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

Permit No: 09-0153	Date Applied For: 02/25/2009	CBL: 422 B058001
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Location of Construction: 340 PRESUMPCOT ST	Owner Name: J & H PROPERTIES LLC	Owner Address: 56 MAIN ST	Phone:
Business Name:	Contractor Name: CRC ELECTRIC	Contractor Address: 10 LILY LN GORHAM	Phone (207) 838-9698
Lessee/Buyer's Name	Phone:	Permit Type: Generator	

Proposed Use: Commercial - warehouse - Install a 47kw LP generator on a concrete pad outside of the building. Unit is new will have a weather proof housing but will not be enclosed	Proposed Project Description: Install a 47kw LP generator on a concrete pad outside of the building. Unit is new will have a weather proof housing but will not be enclosed
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Dept: Zoning **Status:** Approved with Conditions **Reviewer:** Ann Machado **Approval Date:** 02/26/2009

Note: Used information from Marge's zoning sheet and for setbacks and impervious surface information. **Ok to Issue:**

- 1) This permit is being issued with the condition that if the generator needs to be tested that it will be tested during the day between the hours of 10:00 AM and 4:00 PM
- 2) This permit is being issued with the understanding that the generator will only be used as a back up power source during a power outage.
- 3) This permit is being approved on the basis of plans submitted. Any deviations shall require a separate approval before starting that work.

Dept: Building **Status:** Approved with Conditions **Reviewer:** Chris Hanson **Approval Date:** 03/11/2009

Note: **Ok to Issue:**

- 1) The installation must comply with the State of Maine Gas Regulations.
- 2) Separate permits are required for any electrical, plumbing, HVAC or exhaust systems. Separate plans may need to be submitted for approval as a part of this process.

Dept: Fire **Status:** Approved with Conditions **Reviewer:** Capt Keith Gautreau **Approval Date:** 03/05/2009

Note: **Ok to Issue:**

- 1) Please show how LP tanks will be protected or secured. Need specific location of tanks.
- 2) Install shall comply with NFPA 58
A compliance letter is required.

Comments:

2/26/2009-amachado: Applicant needed to apply for a siteplan exemption with planning.

2/26/2009-amachado: Left a vcm for James Freeman. When I asked him earlier for more information about the noise of the generator, he told me that it was only being used as an emergency generator. Emergency devices are exempt from the noise level. I asked him to send me something in writing that confirmed that it was only an emergency generator.

3/5/2009-gg: received granted site exemption with conditions permit with Fire (Kieth). /gg

BUILDING PERMIT INSPECTION PROCEDURES

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

to schedule your inspections as agreed upon

Permits expire in 6 months, if the project is not started or ceases for 6 months.

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

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

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

 X **Footing/Building Location Inspection: Prior to pouring concrete or setting precast piers**

 X **Final inspection required at completion of work.**

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

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

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

Signature of Applicant/Designee

Date

Signature of Inspections Official

Date



Application for Exemption from Site Plan Review Portland, Maine

Department of Planning and Urban Development, Planning Division and Planning Board

FF 2009 0033

1. Applicant Information

Pack Edge Inc
Applicant/Owner

340 Presumpscot St.
Mailing Address

James Freeman
Consultant/Agent

799-6600 / 799-6606 / 838-8075
Phone Fax Cell

2. Project Information

2/25/09
Application Date

Generator Install
Project Name/Description

340 Presumpscot St
Address of Proposed Site

422 B 058
Assessor's Reference (Chart-Block-Lot)

Description of Proposed Development:

Putting an outside generator on a concrete pad outside of the warehouse

- emergency generator

(Please Attach Sketch/Plan of Proposal/Development)

Criteria for Exemptions: (See Section 14-523 (4) on page 2 of this application)

	Applicant's Assessment (Yes, No, N/A)	Planning Division Use Only
a) Within Existing Structures: No New Buildings, Demolitions or Additions	<u>Y</u>	<u>✓</u>
b) Footprint Increase Less Than 500 sq. ft.	<u>X</u>	<u>✓</u>
c) No New Curb Cuts, Driveways, Parking Areas	<u>Y</u>	<u>✓</u>
d) Curbs and Sidewalks in Sound Condition/Comply with ADA	<u>Y</u>	<u>✓</u>
e) No Additional Parking/No Traffic Increase	<u>X</u>	<u>✓</u>
f) No Known Stormwater Problems	<u>Y</u>	<u>✓</u>
g) Sufficient Property Screening Exists	<u>Y</u>	<u>✓ with 1 condition</u>
h) Adequate Utilities	<u>Y</u>	<u>✓</u>

Planning Division Use Only

Exemption Granted X Partial Exemption Exemption Denied

with a condition

That any periodic testing for generator be conducted between 9am and 5pm Monday through Friday.

Planner's Signature Barbara Bushyatt Date March 4, 2009

PROVISION OF PORTLAND CITY CODE
14-523 (SITE PLAN ORDINANCE)
RE: EXEMPTIONS FROM SITE PLAN REVIEW

Sec. 14-523. Approval required.

No person shall undertake any development without obtaining approval therefore under this article.

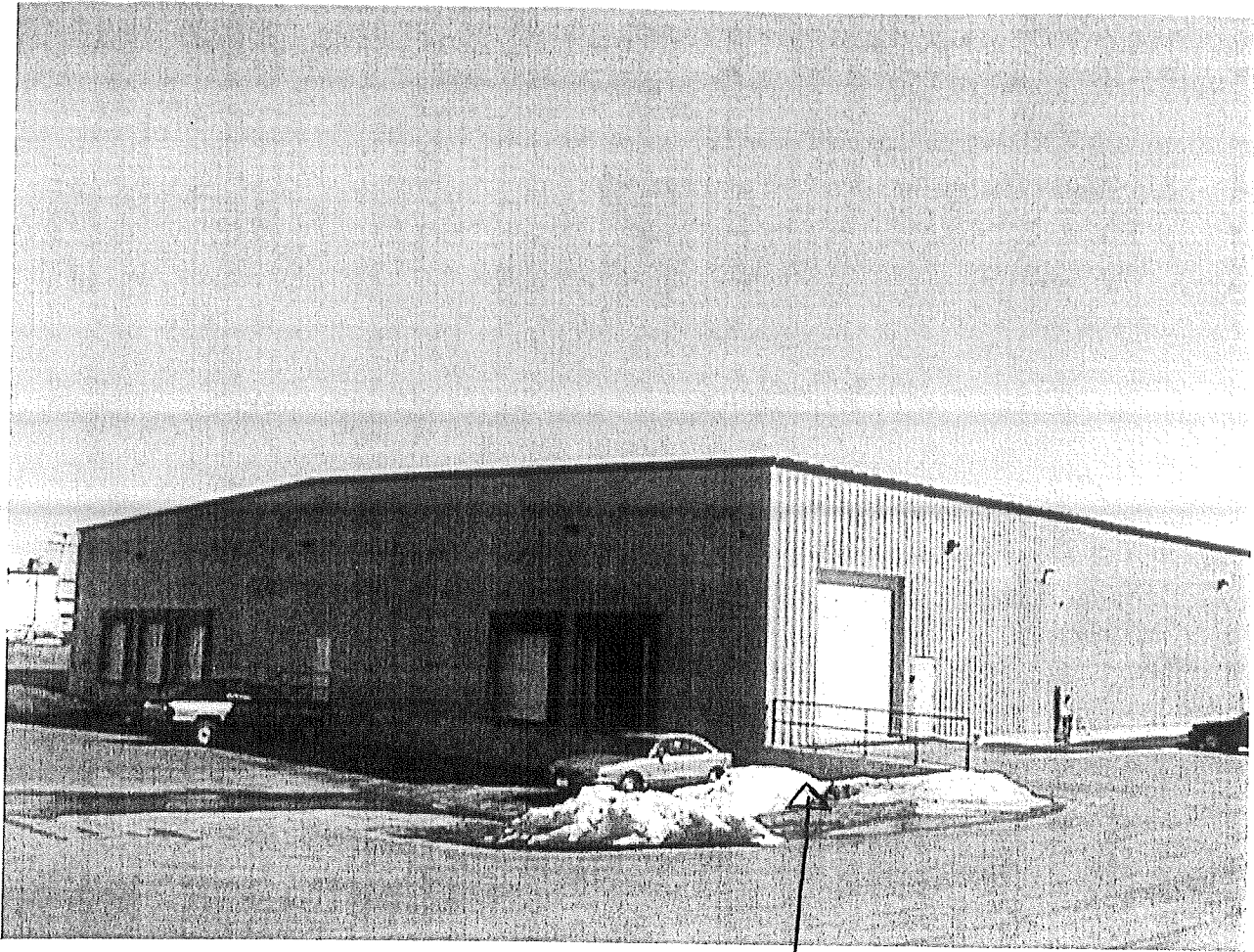
- (4) The Planning authority shall exempt from review under all standards in this article developments that meet all of the following requirements:
- a. The proposed development will be located within existing structures, and there will be no new buildings, demolitions, or building additions other than those permitted by subsection b of this section;
 - b. Any building addition shall have a new building footprint expansion of less than five hundred (500) square feet;
 - c. The proposed site plan does not add any new curb cuts, driveways, or parking areas; the existing site has no more than one (1) curb cut and will not disrupt the circulation flows and parking on-site; and there will be no drive-through services provided;
 - d. The curbs and sidewalks adjacent to the lot are complete and in sound condition, as determined by the public works authority, with granite curb with at least four (4) inch reveal, and sidewalks are in good repair with uniform material and level surface and meet accessibility requirements of the Americans with Disabilities Act;
 - e. The use does not require additional or reduce existing parking, either on or off the site, and the project does not significantly increase traffic generation;
 - f. There are no known stormwater impacts from the proposed use or any existing deficient conditions of stormwater management on the site;
 - g. There are no evident deficiencies in existing screening from adjoining properties; and
 - h. Existing utility connections are adequate to serve the proposed development and there will be no disturbance to or improvements within the public right-of-way.

developer claiming exemption under this subsection shall submit a written request for exemption stating that the proposed meets all the provisions in standards a-h of this subsection, including an itemized statement by a qualified professional. Upon receipt of such request, the planning authority will visit the site to verify that the exemption is applicable due to compliance with the standards. The planning authority, after consultation with the public works authority, shall render a written decision within twenty (20) working days after receipt of a written request for exemption that contains all the information required by this subsection. If a full exemption is granted, the application shall be approved without further review under this article, and no performance guarantee shall be required. The planning authority may require full site plan review of a project that meets the criteria of this subsection if it determined that there is a substantial public interest in the project.

In the event that the planning authority determines that standards a and b of this subsection and at least four (4) of the remaining standards have been met, the planning authority shall review the site plan under the review standards in section 14-526 that are affected by the standards in this subsection that have not been met. An application that receives review by the planning board shall receive a complete review under the standards of section 14-526. The planning authority shall notify an applicant in writing that full or partial site plan review is required, the reasons for the decision, and the information that will be required for site plan review.

IMPORTANT NOTICE TO APPLICANT

Exemption from site plan review does not exempt this proposal from other approvals or permits, nor is it an authorization for construction. You should first check with the Building Inspections Office, Room 315, City Hall (503-845-8703), to determine what other City permits, such as a building permit, will be required.



Propane tanks are here

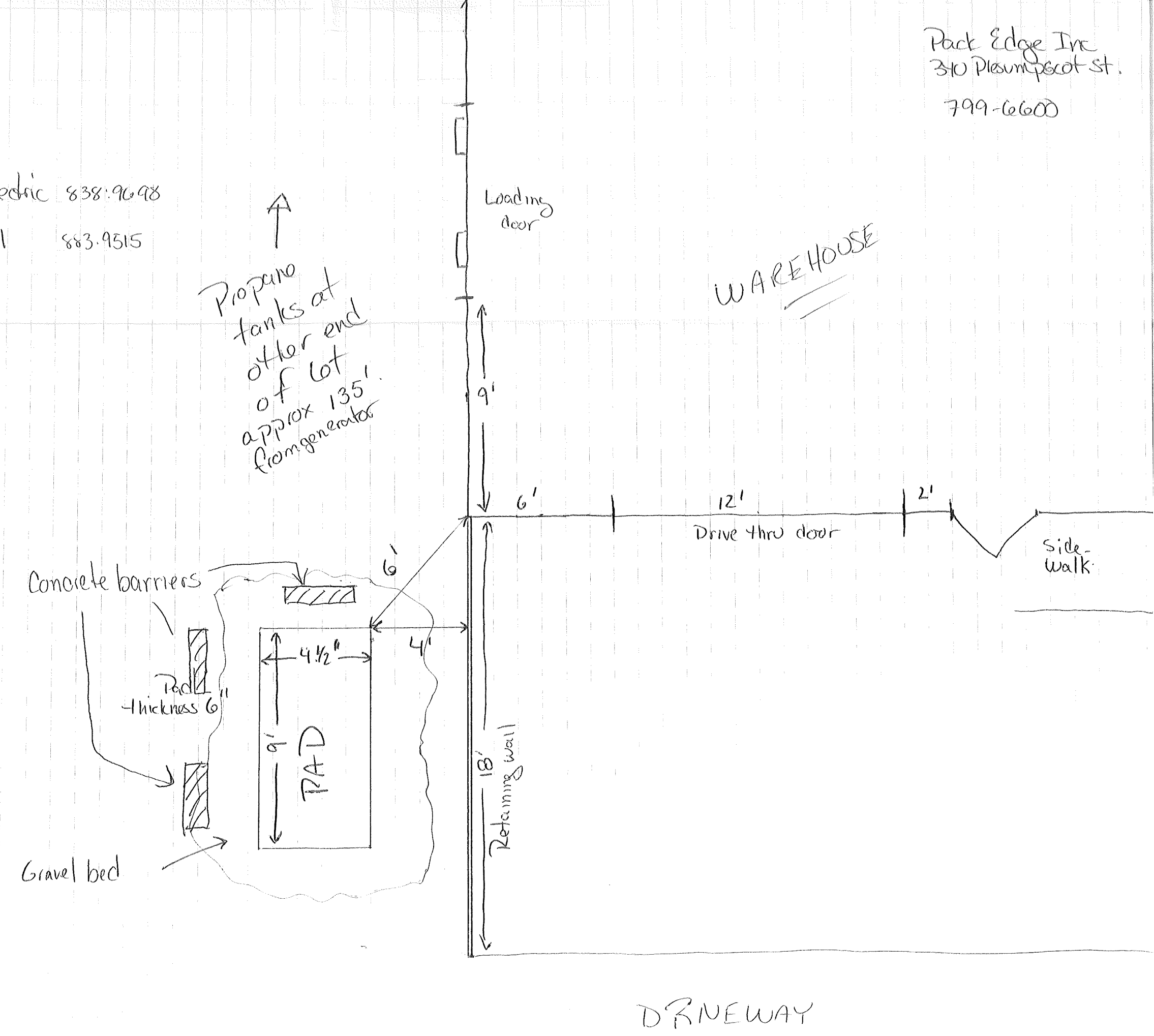
Generator here

Rock Edge Inc
340 Presumpscot St
Portland, ME
799-6600

FEB 25 2009

Pack Edge Inc
310 Plumscot St.
799-6600

- ① Electrician: Chris Charest CRC Electric 838-9698
- ② LP Hookup: (Union) Dead River Oil 883-9515



DRIVEWAY



General Building Permit Application

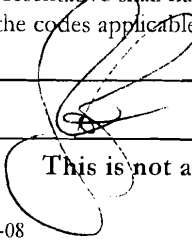
If you or the property owner owes real estate or personal property taxes or user charges on any property within the City, payment arrangements must be made before permits of any kind are accepted.

Location/Address of Construction: <u>340 Presumpscot St</u>		
Total Square Footage of Proposed Structure/Area <u>0</u>	Square Footage of Lot <u>0</u>	Number of Stories <u>0</u>
Tax Assessor's Chart, Block & Lot Chart# <u>422</u> Block# <u>B</u> Lot# <u>50</u>	Applicant * must be owner, Lessee or Buyer * Name <u>Pack Edge Inc.</u> Address <u>340 Presumpscot St</u> City, State & Zip <u>Portland, ME 04103</u>	Telephone: <u>207-799-6600</u>
Lessee/DBA (If Applicable)	Owner (if different from Applicant) Name <u>James Freeman (J+H Prop)</u> Address <u>88 winding way</u> City, State & Zip <u>Portland, ME 04102</u>	Cost Of Work: \$ <u>29,000</u> C of O Fee: \$ _____ Total Fee: \$ <u>310</u>
Current legal use (i.e. single family) <u>Commercial Warehouse</u> Number of Residential Units _____ If vacant, what was the previous use? _____ Proposed Specific use: <u>Back-up generator</u> Is property part of a subdivision? _____ If yes, please name _____ Project description: <u>Install a 47kw LP generator on a concrete pad outside of the building. Unit is new, will have a weather proof housing but will not be enclosed. Emergency Power Generator.</u>		
Contractor's name: <u>Chris Charest (Electrician)</u>		
Address: <u>CRC Electric</u>		
City, State & Zip <u>Corham, ME</u>		Telephone: <u>838-8698</u>
Who should we contact when the permit is ready: <u>James Freeman</u>		Telephone: <u>838-8075</u>
Mailing address: <u>340 Presumpscot St Portland, ME 04103</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, 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: 2/25/09 FEB 25 2009

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

From: <jfreeman@packedgeinc.com>
To: <amachado@portlandmaine.gov>
Date: 2/26/2009 2:53:06 PM
Subject: Pack edge generator

The generator to be placed at pack edge is strictly a backup electrical power source and will only operate during total power outages
Sent from my BlackBerry® wireless device from U.S. Cellular

FEB 26 2009

Spark-ignited generator set 35 – 47 kW standby

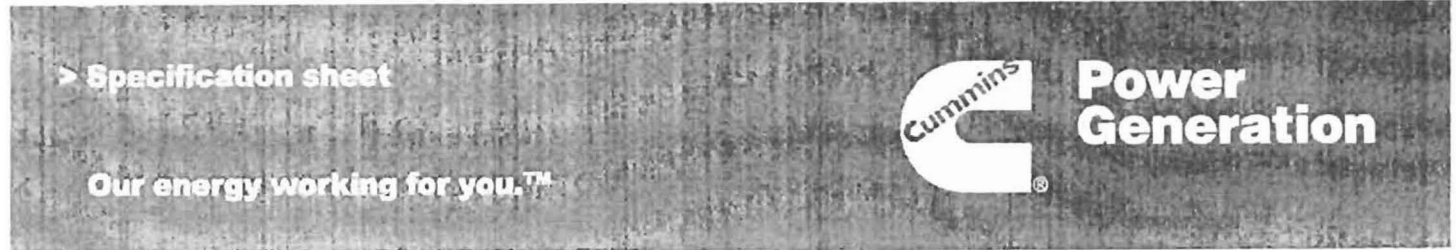


Pack Edge Inc

799-6600

340

Presumpt



> Specification sheet

Our energy working for you.™



Description

Cummins Power Generation commercial generator sets are fully integrated power generation systems providing optimum performance, reliability and versatility for stationary standby and prime power applications.



This generator set is designed in facilities certified to ISO 9001 and manufactured in facilities certified to ISO 9001 or ISO 9002.



The Prototype Test Support (PTS) program verifies the performance integrity of the generator set design. Cummins Power Generation products bearing the PTS symbol meet the prototype test requirements of NFPA 110 for Level 1 systems.



All low voltage models are CSA certified to product class 4215-01.



The generator set is available Listed to UL 2200, Stationary Engine Generator Assemblies. The PowerCommand control is Listed to UL 508 - Category NITW7 for U.S. and Canadian usage.

Features

Ford heavy-duty gas engine - Rugged 4-cycle, industrial spark-ignited delivers reliable power. The electronic governor provides fast response to load changes.

Alternator - Several alternator sizes offer selectable motor starting capability with low reactance 2/3 pitch windings, low waveform distortion with non-linear loads and fault clearing short-circuit capability.

Control system - The PowerCommand® electronic control is standard equipment and provides total genset system integration including automatic remote starting/stopping, precise frequency and voltage regulation, alarm and status message display, AmpSentry™ protection, output metering, auto-shutdown at fault detection and NFPA 110 Level 1 compliance.

Cooling system - Standard cooling package provides reliable running at up to 40 °C (104 °F) ambient temperature.

Enclosures - Optional weather protective and sound attenuated enclosures are available.

NFPA - The genset accepts full rated load in a single step in accordance with NFPA 110 for Level 1 systems.

Warranty and service - Backed by a comprehensive warranty and worldwide distributor network.

Model	Natural gas				Propane				Data sheets	
	Standby rating		Prime rating		Standby rating		Prime rating		60 Hz	50 Hz
	60 Hz kW (kVA)	50 Hz kW (kVA)	60 Hz kW (kVA)	50 Hz kW (kVA)	60 Hz kW (kVA)	50 Hz kW (kVA)	60 Hz kW (kVA)	50 Hz kW (kVA)		
GGFD	35.0 (44.0)				35.0 (44.0)				D-3379	
GGFE	42.0 (52.5)	30.0 (38.0)			47.0 (58.8)	35.0 (44.0)			D-3380	D-3381

Generator set specifications

Governor regulation class	ISO 8528 Part 1 Class G3
Voltage regulation, no load to full load	± 1.0%
Random voltage variation	± 1.0%
Frequency regulation	Isochronous
Random frequency variation	± 0.6%
Radio frequency emissions compliance	Meets requirements of most industrial and commercial applications

Engine specifications

Design	Naturally aspirated
Bore	96.8 mm (3.81 in)
Stroke	95.0 mm (3.74 in)
Displacement	4.2 litres (256.0 in ³)
Cylinder block	Cast iron, V 6 cylinder
Battery capacity	420 amps minimum at ambient temperature of 0 °C (32 °F)
Battery charging alternator	65 amps
Starting voltage	12 volt, negative ground
Lube oil filter type(s)	Single spin-on canister-combination full flow with bypass
Standard cooling system	40 °C (104 °F) ambient radiator cooling system

Alternator specifications

Design	Brushless, 4 pole, drip proof, revolving field
Stator	2/3 pitch
Rotor	Direct coupled by flexible drive disc
Insulation system	Class H per NEMA MG1-1.65
Standard temperature rise	150 °C (302 °F) standby
Exciter type	Torque match (shunt)
Phase rotation	A (U), B (V), C (W)
Alternator cooling	Direct drive centrifugal blower
AC waveform total harmonic distortion	< 5% no load to full linear load, < 3% for any single harmonic
Telephone influence factor (TIF)	< 50 per NEMA MG1-22.43
Telephone harmonic factor (THF)	< 3

Available voltages

60 Hz			50 Hz				
3-phase			1-phase	3-phase			1-phase
• 120/208	• 120/240	• 127/220	• 120/240	• 110/190	• 110/220	• 115/200	• 110/220
• 139/240	• 220/380	• 240/416		• 115/230	• 120/208	• 120/240	• 115/230
• 254/440	• 277/480	• 347/600		• 127/220	• 220/380	• 230/400	• 120/240
				• 240/416	• 254/440		

Note: Consult factory for other voltages.

Generator set options and accessories

Engine

- 120/240 V, 1500 W coolant heaters

Fuel system

- Natural gas
- Natural gas/propane liquid with automatic changeover
- Natural gas/propane vapor with automatic changeover
- Propane liquid withdrawal
- Vapor withdrawal

Alternator

- 105 °C (221 °F) rise alternator
- 125 °C (257 °F) rise alternator
- 150 °C (302 °F) rise alternator
- 120/240 V, 100 W anti-condensation heater
- 12 lead, broad range extended stack (full single phase output)
- Lower broad range
- PMG excitation
- Upper broad range
- Single phase (4 lead)

Exhaust system

- Adapter NPT to slip fit
- Mounted residential muffler

Generator set

- AC entrance box
- Battery
- Battery charger
- Coolant drain extension
- Duct adapter
- Enclosure: Aluminum, steel, weather protection or sound attenuated

- Export box packaging
- Main line circuit breaker
- Oil drain extension
- Remote annunciator panel
- UL 2200 Listed
- 2 year prime power, 6000 hours, warranty
- 2 year standby warranty
- 5 year basic power warranty
- 5 year comprehensive warranty

Note: Some options may not be available on all models - consult factory for availability.

Our energy working for you.™

www.cummins-power.com

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Control system

PowerCommand PCC2100 - An integrated generator set control system providing isochronous governing, voltage regulation, engine protection and operator interface functions.

- Includes integral AmpSentry protection, which provides a full range of alternator protection functions that are matched to the alternator provided.
- Control function provides battery monitoring and testing features, and smart starting control system.
- Three phase sensing, full wave rectified voltage regulation system, with a PWM output for stable operation with all load types.
- Standard PCCNet interface.
- Suitable for operation in ambient temperatures from -40 °C to +70 °C (-40 °F to +158 °F) and altitudes to 5000 m (13,000 ft).
- Prototype tested; UL, CSA and CE compliant.
- InPower™ PC-based service tool available for detailed diagnostics, setup, data logging and fault simulation.

AC protection

- AmpSentry Protective Relay – UL-listed
- Over current and short-circuit shutdown
- Over current warning
- Single and three phase fault regulation
- Over and under voltage shutdown
- Over and under frequency shutdown
- Overload warning with alarm contact
- Reverse power and reverse Var shutdown
- Field Overload

Engine protection

- Overspeed shutdown
- Low oil pressure warning and shutdown
- High coolant temperature warning and shutdown
- High oil temperature warning (optional)
- Low coolant level warning or shutdown
- Low coolant temperature warning
- High and low battery voltage warning
- Weak battery warning
- Dead battery shutdown
- Fail to start (overcrank) shutdown
- Fail to crank shutdown
- Redundant start disconnect
- Cranking lockout
- Sensor failure indication

Operator Interface

- Off/manual/auto mode switch
- Manual run/stop switch
- Panel lamp/test switch
- Emergency stop switch
- Alpha-numeric display with pushbutton access, for viewing engine and alternator data and providing setup, controls and adjustments
- LED lamps indicating genset running, not in auto, common warning, common shutdown
- (5) configurable LED lamps
- LED bargraph AC data display (optional)

Alternator data

- Line-to-line and line-to-neutral AC volts
- Three phase AC current
- Frequency
- Total and individual phase kW and kVA

Our energy working for you.™

www.cumminspower.com

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Engine data

- DC voltage
- Lube oil pressure
- Coolant temperature
- Lube oil temperature (optional)

Other data

- Genset model data
- Start attempts, starts, running hours
- kW hours (total and since reset)
- Fault history
- Load profile (hours less than 30% and hours more than 90% load)
- System data display (optional with network and other PowerCommand gensets or transfer switches)

Governing

- Integrated digital electronic isochronous governor
- Temperature dynamic governing
- Smart idle speed mode
- Glow plug control (some models)

Voltage regulation

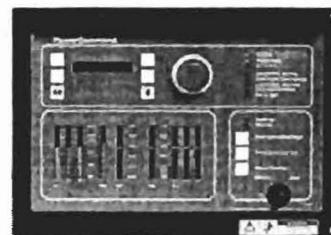
- Integrated digital electronic voltage regulator
- Three phase line-to-neutral sensing
- Configurable torque matching
- PMG (optional)

Control functions

- Time delay start and cooldown
- Fault simulation (requires InPower)
- Cycle cranking
- Data logging on faults
- (4) configurable customer inputs
- (4) configurable customer outputs
- Remote emergency stop

Options

- Analog AC Meter Display
- Thermostatically Controlled Space Heater
- Key-type mode switch
- Ground fault module
- Auxiliary relays (3)
- Echelon® LONWORKS® interface
- Modlon Gateway to convert to Modbus (loose)
- PowerCommand iWatch™ web server for remote monitoring and alarm notification (loose)
- PCCNet and Lonworks Digital input and output module(s) and Remote annunciators (loose)



PowerCommand 2100 control operator/display panel

Ratings definitions

Emergency standby power (ESP):

Applicable for supplying power to varying electrical load for the duration of power interruption of a reliable utility source. Emergency Standby Power (ESP) is in accordance with ISO 8528. Fuel Stop power in accordance with ISO 3046, AS 2789, DIN 6271 and BS 5514.

Limited-time running power (LTP):

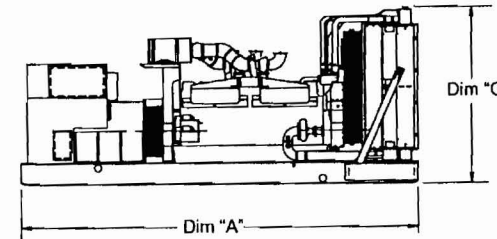
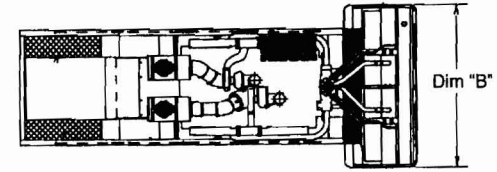
Applicable for supplying power to a constant electrical load for limited hours. Limited Time Running Power (LTP) is in accordance with ISO 8528.

Prime power (PRP):

Applicable for supplying power to varying electrical load for unlimited hours. Prime Power (PRP) is in accordance with ISO 8528. Ten percent overload capability is available in accordance with ISO 3046, AS 2789, DIN 6271 and BS 5514.

Base load (continuous) power (COP):

Applicable for supplying power continuously to a constant electrical load for unlimited hours. Continuous Power (COP) in accordance with ISO 8528, ISO 3046, AS 2789, DIN 6271 and BS 5514.



This outline drawing is for reference only. See respective model data sheet for specific model outline drawing number.

Do not use for installation design

Model	Dim "A" mm (in.)	Dim "B" mm (in.)	Dim "C" mm (in.)	Set Weight* dry kg (lbs)	Set Weight* wet kg (lbs)
GGFD	2103 (82.8)	1016 (40.0)	1285 (50.6)	711 (1567)	743 (1637)
GGFE	2103 (82.8)	1016 (40.0)	1285 (50.6)	751 (1655)	782 (1725)

* Weights represent a set with standard features. See outline drawings for weights of other configurations.

Cummins Power Generation

1400 73rd Avenue N.E.
Minneapolis, MN 55432 USA
Telephone: 763 574 5000
Fax: 763 574 5298

Warning: Back feed to a utility system can cause electrocution and/or property damage. Do not connect to any building's electrical system except through an approved device or after building main switch is open.

Our energy working for you.™

www.cumminspower.com

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S-1588b (1/09)





Sound Data

47GGFE 60Hz

Sound Pressure Level @ 7 meters, dB(A)

See Notes 1-8 listed below

Configuration		Measurement Location Number								Average
		1	2	3	4	5	6	7	8	
Standard - Unhoused	Infinite Exhaust	77.1	78.0	74.3	77.0	74.4	76.7	76.8	78.1	76.8
F182 and F216 -Weather	Infinite Exhaust	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F182 and F216 -Weather w/Exhaust Silencer	Mounted Muffler	83.0	83.8	80.5	82.5	81.6	82.9	83.5	84.7	83.0
F183-Weather	Infinite Exhaust	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F183 -Weather w/Residential Muffler	Mounted Muffler	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F172 - Quiet Site II First Stage	Mounted Muffler	75.7	77.4	68.4	68.0	66.2	67.3	68.4	76.9	73.3
F173 and F217 - Quiet Site II Second Stage	Mounted Muffler	65.1	67.8	66.1	67.2	66.2	66.0	65.7	66.0	66.3

Sound Power Level, dB(A)

See Notes 2-6, 9, 10 listed below

Configuration		Octave Band Center Frequency (Hz)								Overall Sound Power Level
		63	125	250	500	1000	2000	4000	8000	
Standard - Unhoused	Infinite Exhaust	65.9	83.1	92.3	96.8	97.6	95.1	92.3	88.8	102.6
Standard - Unhoused w/Critical Muffler	Mounted Muffler	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F182 and F216 -Weather w/Exhaust Silencer	Mounted Muffler	97.5	101.0	97.6	101.8	99.3	98.7	99.6	94.4	108.4
F183 -Weather w/Residential Muffler	Mounted Muffler	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F172 - Quiet Site II First Stage	Mounted Muffler	77.0	81.9	88.8	90.9	92.9	91.2	89.3	82.4	98.1
F173 and F217- Quiet Site II Second Stage	Mounted Muffler	77.4	81.9	84.5	82.8	84.7	82.4	84.0	76.3	91.7

Exhaust Sound Pressure Level @ 1 meter, dB(A)

Open Exhaust (No Muffler Rated Load)	Octave Band Center Frequency (Hz)								Sound Pressure Level
	63	125	250	500	1000	2000	4000	8000	
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note:

- Position 1 faces the engine front. The positions proceed around the generator set in a counter-clockwise direction in 45° increments. All positions are at 7m (23 ft) from the surface of the generator set and 1.2m (48") from floor level.
- Sound levels are subject to instrumentation, measurement, installation and manufacturing variability.
- Sound data with remote-cooled generator sets are based on rated loads without cooling fan noise.
- Sound levels for aluminum enclosures are approximately 2 dB(A)s higher than listed sound levels for steel enclosures.
- Sound data for generator set with infinite exhaust do not include exhaust noise.
- Data is based on full rated load with standard radiator-cooling fan package.
- Sound Pressure Levels are measured per ANSI S1.13 and ANSI S12.18, as applicable.
- Reference sound pressure is 20 µPa.
- Sound Power Levels per ISO 3744 and ISO 8528-10, as applicable.
- Reference power = 1 pw (10⁻¹² W)
- Exhaust Sound Pressure Levels are per ISO 6798, as applicable.

≈ 70'
Sound Power vs Sound Pressure

Emergency Power generator

1. *Definitions:*

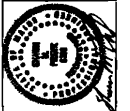
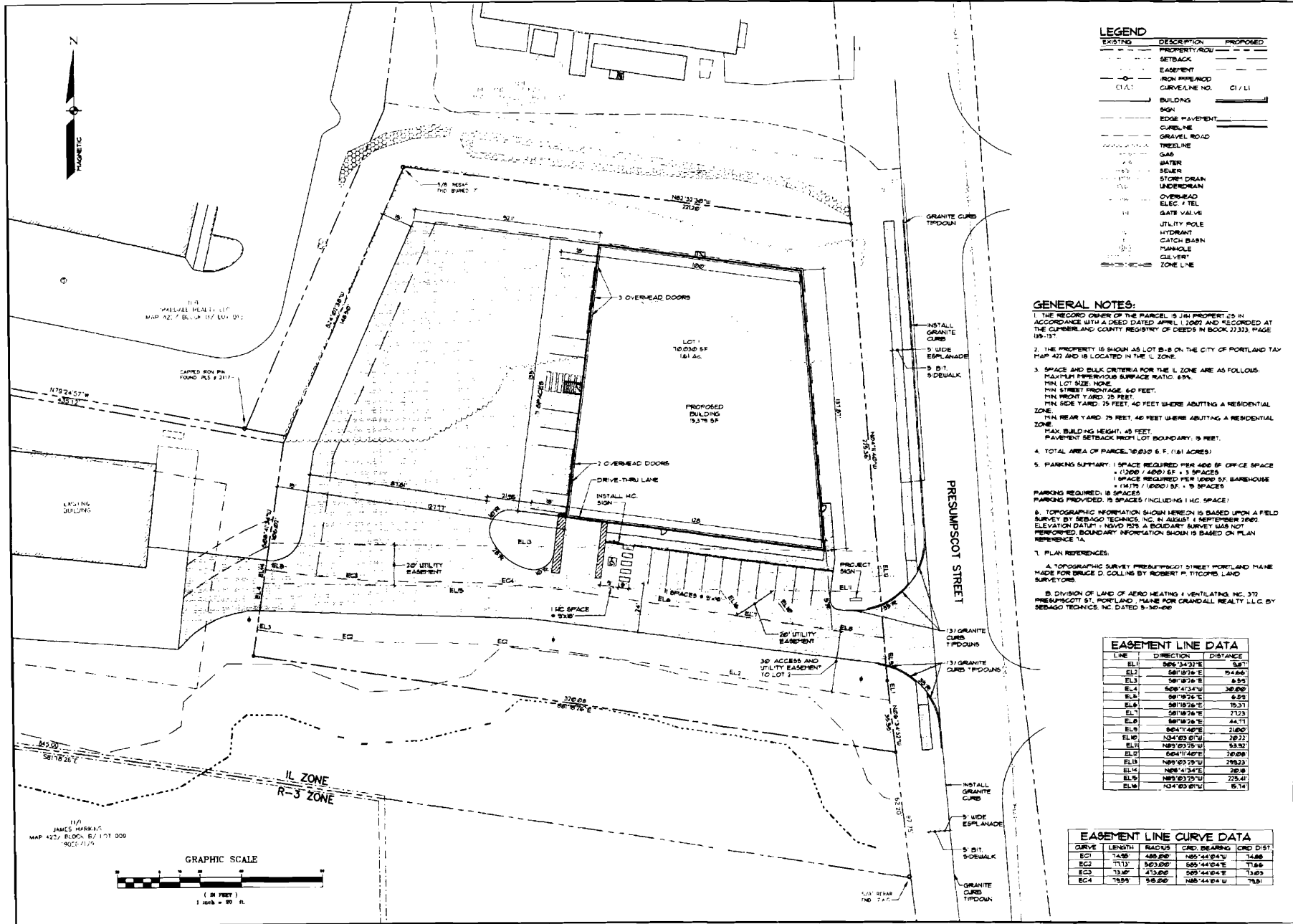
- a. Tonal sounds are defined as sound waves usually perceived as a hum or whine because their instantaneous sound pressure varies essentially as a simple sinusoidal function of time.
- b. Impulse sounds are defined as sound events characterized by brief excursions of sound pressure, each with a duration of less than one (1) second.

2. *Measurement:* Sound levels shall be measured with a sound level meter with a frequency weighting network manufactured according to standards prescribed by the American National Standards Institute (ANSI) or its successor body. Measurements shall be made at all major lot lines of the site, at a height of at least four (4) feet above the ground surface. In measuring sound levels under this section, sounds with a continuous duration of less than sixty (60) seconds shall be measured by the maximum reading on a sound level meter set to the A weighted scale and the fast meter response (L maxfast). Sounds with a continuous duration of sixty (60) seconds or more shall be measured on the basis of the energy average sound level over a period of sixty (60) seconds (LEQ₁).

3. *Maximum permissible sound levels:* The maximum permissible sound level of any continuous, regular or frequent source of sound produced by an activity shall be as follows:

- a. Sixty (60) dBA between the hours of 7:00 a.m. and 10:00 p.m.
- b. Fifty (50) dBA between the hours of 10:00 p.m. and 7:00 a.m., as measured at or within the boundaries of any residential zone.

In addition to the sound level standards



NO.	DATE	DESCRIPTION
1	5-24-06	SUBMIT FOR PLANNING STREET REVIEW
2	5-24-06	STREET REVIEW
3	5-24-06	FOR PLAN REVIEW AND APPROVAL FROM SEBAGO TECHNICS, INC. AND AEROSOL TECHNICS, INC.
4	5-24-06	APPROVED BY OWNER
5	5-24-06	APPROVED BY ENGINEER

Sebago Technics
 Engineering & Surveying
 14177 Main Street
 Portland, Maine 04107
 Phone: (207) 886-0777
 Fax: (207) 886-0777

SITE PLAN
 OF
PROPOSED WAREHOUSE BUILDING
 723 MAIN STREET
 PORTLAND, MAINE
PATCO CONSTRUCTION, INC.
 723 MAIN STREET
 PORTLAND, MAINE 04107

DATE	SCALE
2.15.06	1"=20'

Jim Freeman - Pack Edge

Applicant: J & N Properties

Date: 6/27/06

Address: 352 Presumpscot St

C-B-L: 422-B-8

CHECK-LIST AGAINST ZONING ORDINANCE

06-0846

Date - New lot from 340 Presumpscot

Zone Location - IL

Interior or corner lot - 100' x 137.87' x 128' x 135' (NOT a rectangular bldg)
Proposed Use/Work - New bldg warehouse for boxes/package
Accessory office 15,390 sq ft total

Savage Disposal - City

Lot Street Frontage - 60' min - ~26' shown

N/A Front Yard - 25' min - 26' shown

OK Rear Yard - does not abut A - 25' min - 130' scaled
res. zone

OK Side Yard - does not abut A - 25' min 26' & 200' shown
res. zone

Projections -

Width of Lot - N/A

Height - 45' max - 29' to ridge

Lot Area - No min req. 70,030 sq ft given

Lot Coverage Impervious Surface - 65% max of 45,519.5 sq ft max - 64% shown

Area per Family -

Off-street Parking - offices 800 = 1 per 400 = 5
warehouse 13,590 = 1 per 1,000 = 14 min

19 min req - 19 shown

Loading Bays - 5 Bays shown & 1 Drive thru to bldg

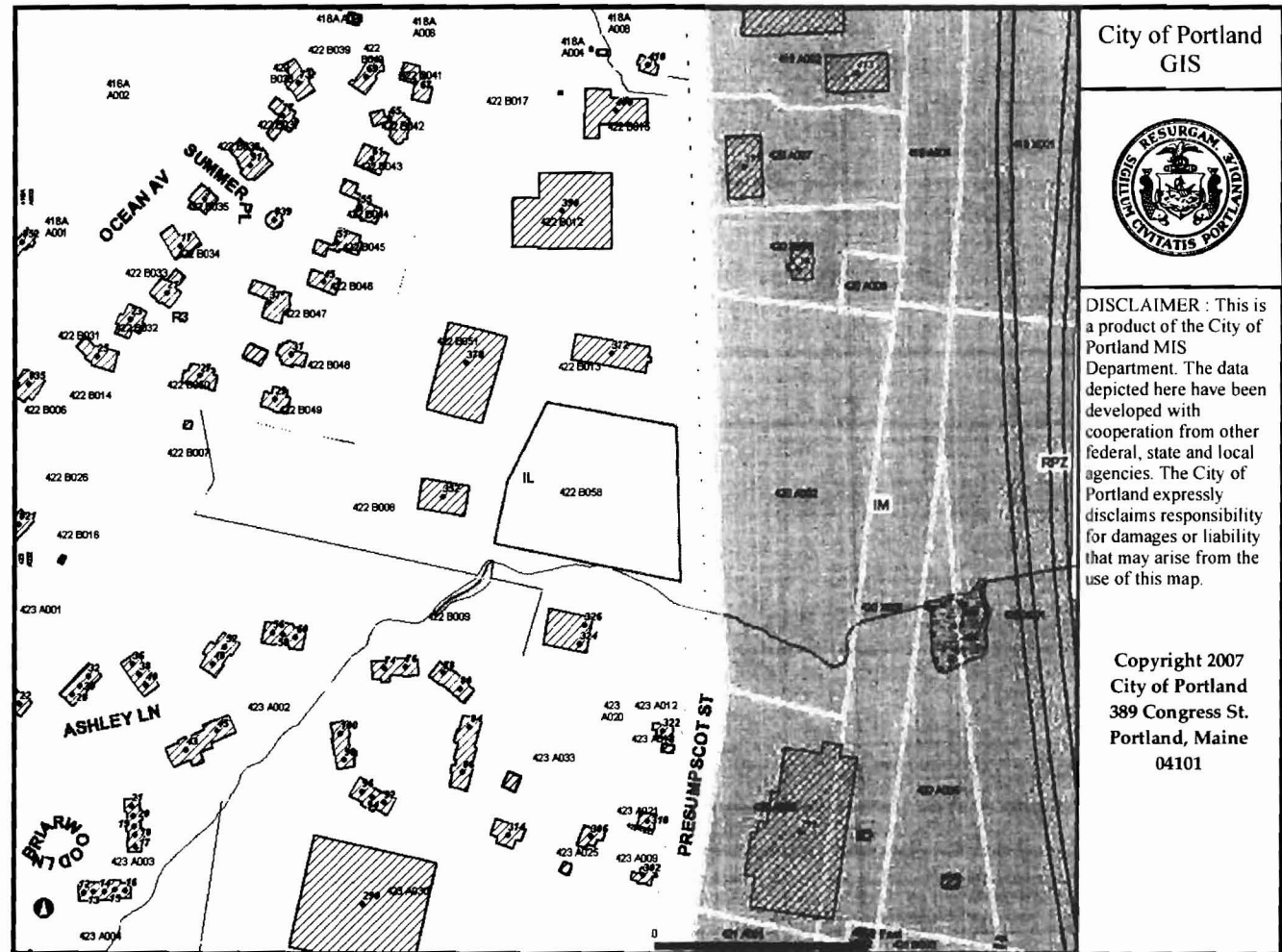
Site Plan - # 2006-0104

Shoreland Zoning/ Stream Protection - N/A

Flood Plains - panel 7 - Zone X

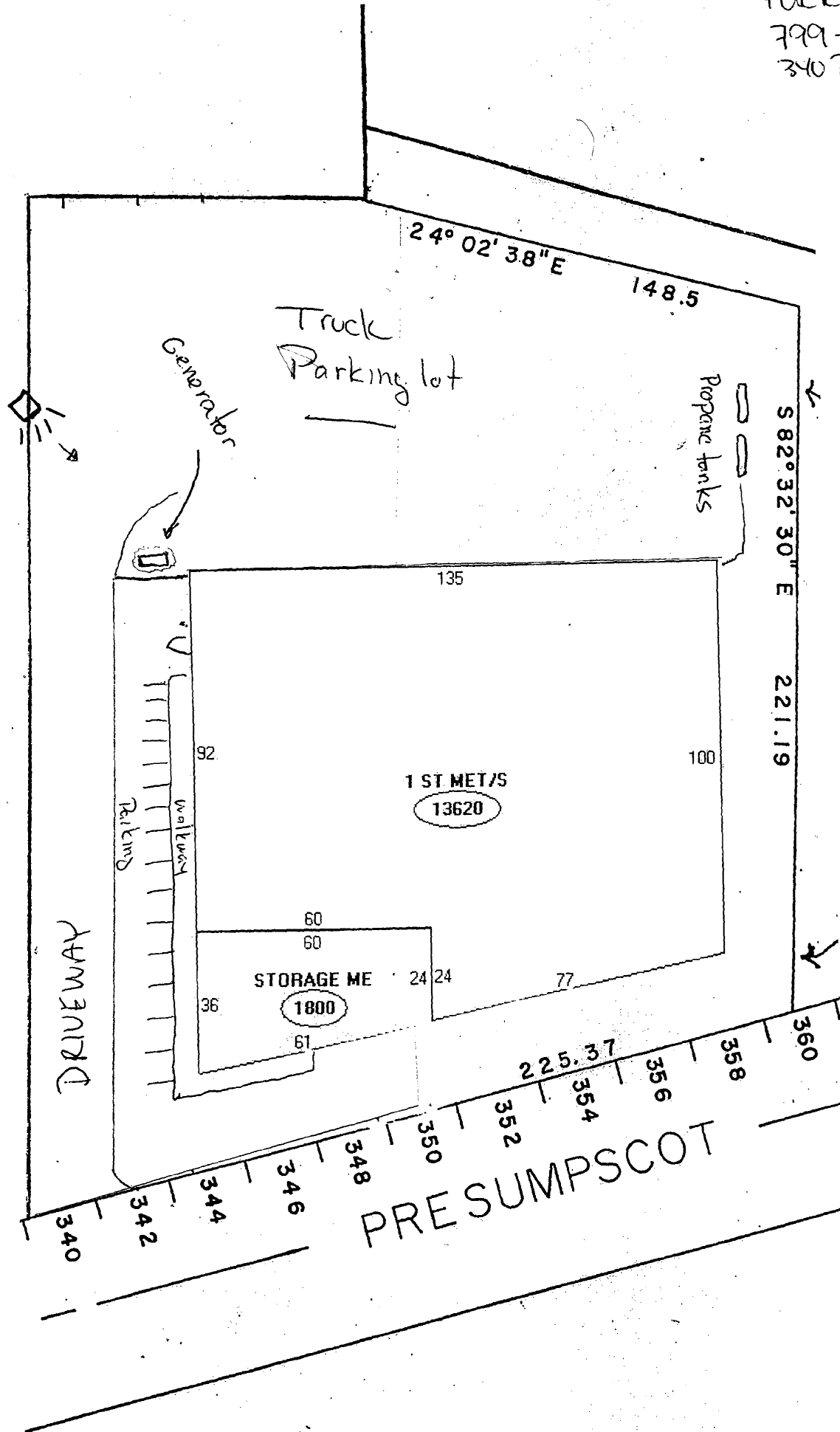
Pavement setbacks from lot boundary lines 15' min - 15' min shown to rear

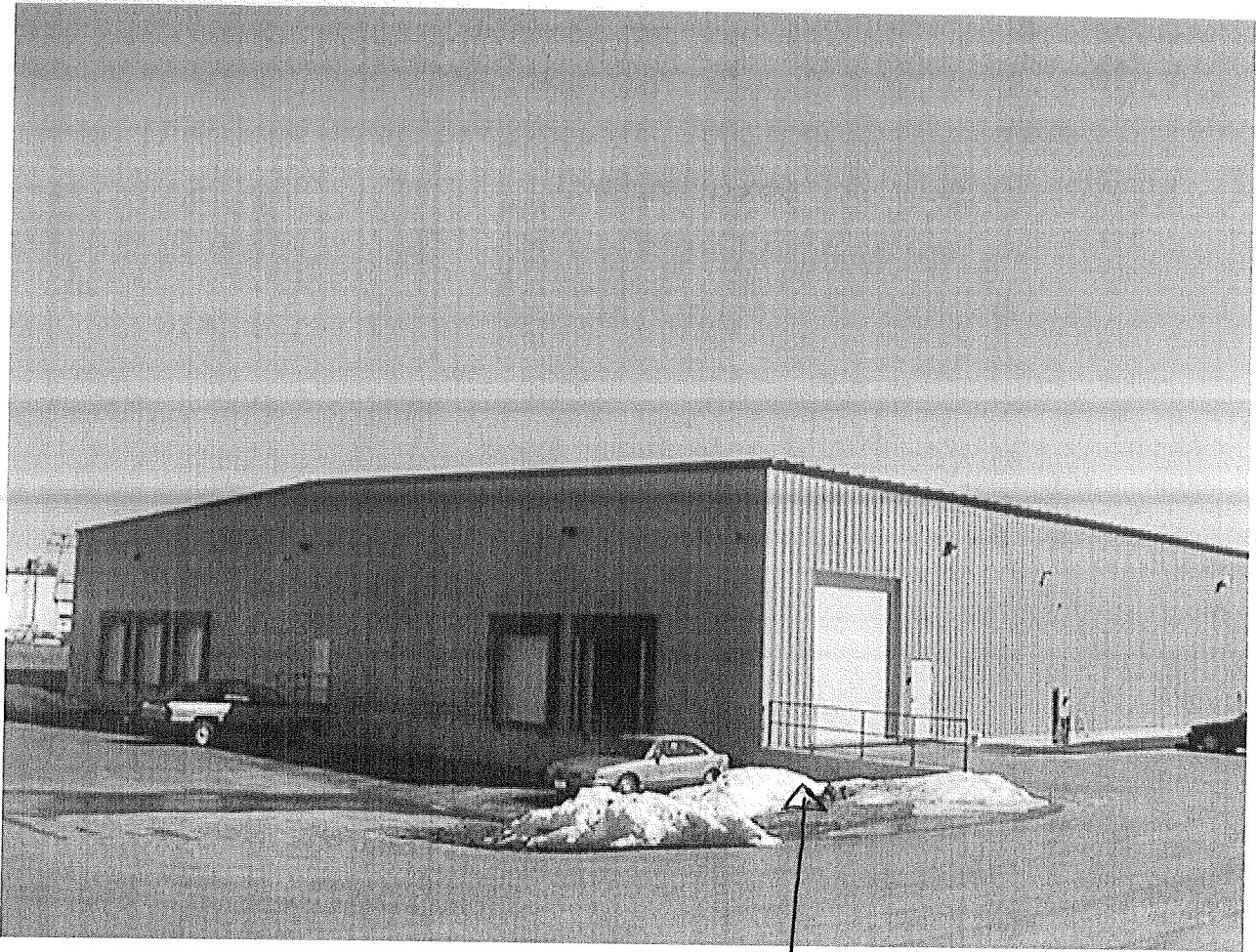
pad 4.5 x 9 = 40.5
= 45 499.47 OK
405
45,499.97



Pack Edge Inc
799-6600
340 Presumpscot

Photo taken
from here





Propane tanks are here

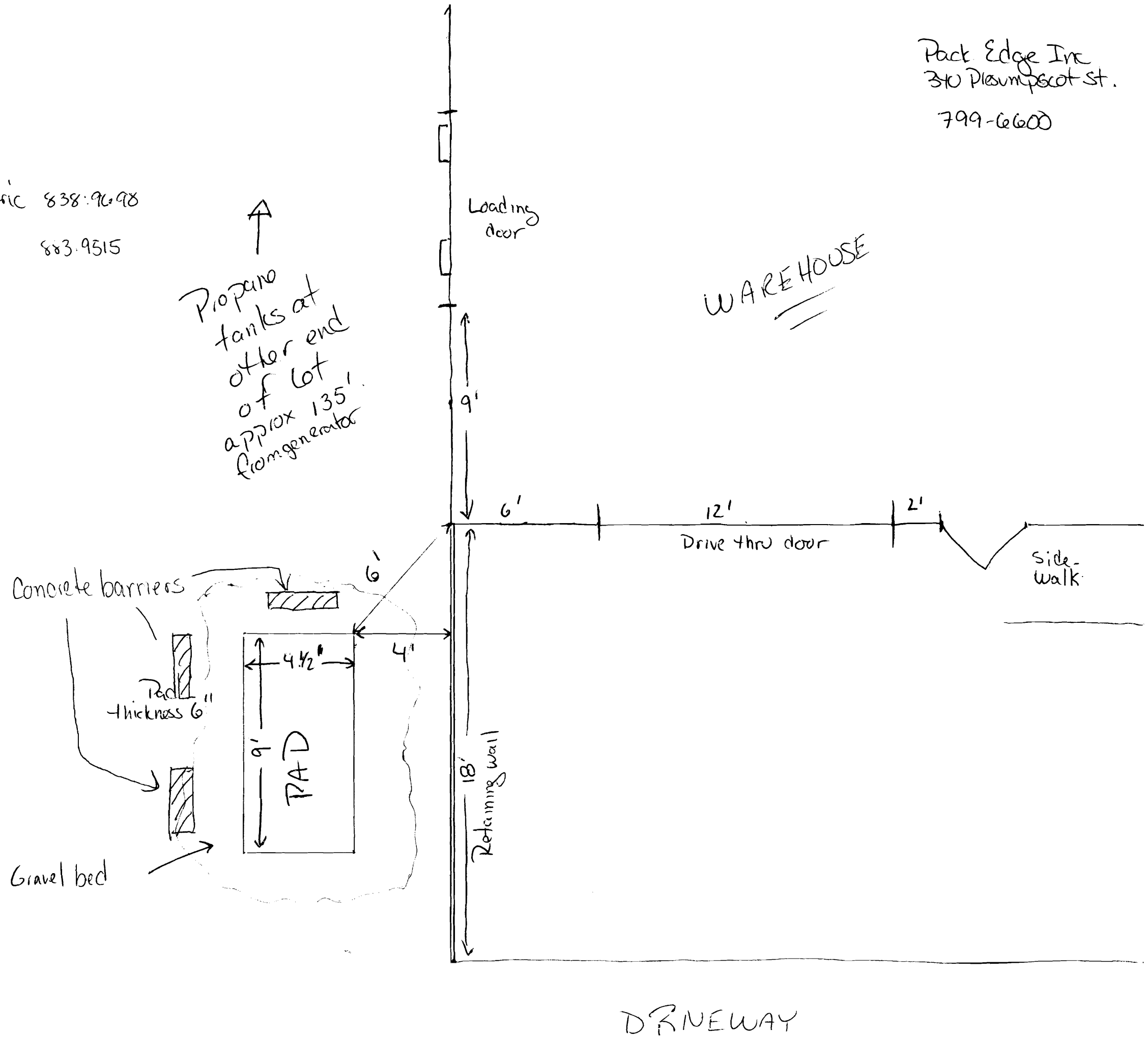
Generator here

FEB 25 2009

Pack Edge Inc
310 Plumscot St.
799-6600

(1) Electrician: Chris Charest CRC Electric 838-9698

(2) LP Hookup: (Union) Dead River Oil 883-9515



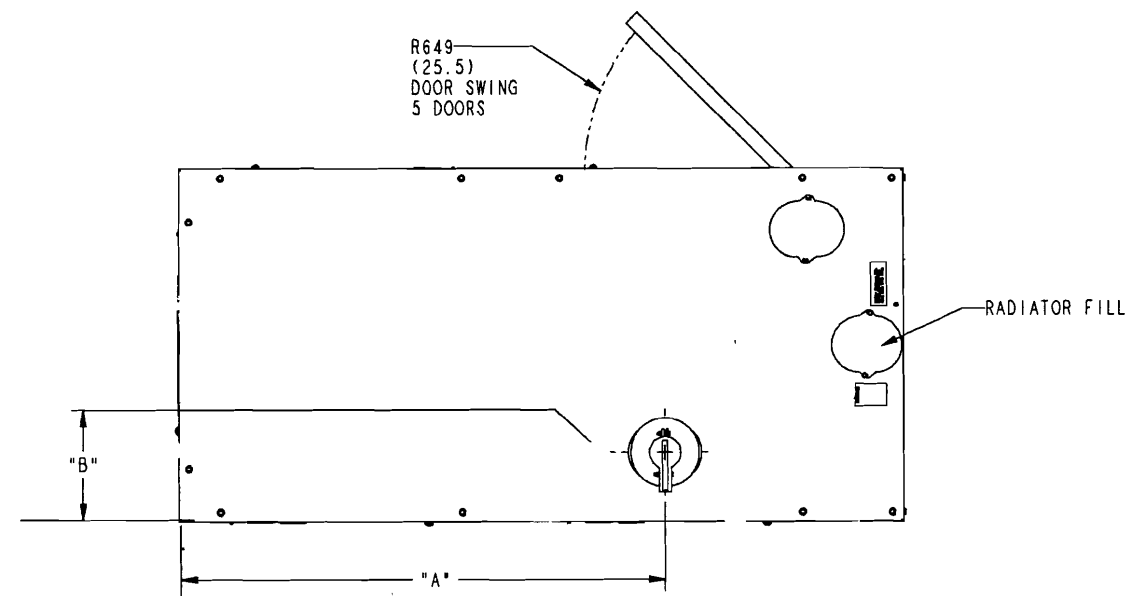
0500_3171

ER NO.	LET	NO.	REVISION	ZONE	IN	CHKD	APPROVED	DATE
73846	A	1	PRODUCTION RELEASE	-	DAH	DAH	RKE	11-18-96
75024	B	1	ADD MODELS GGFB, FC	2A	DAH	DAH	GILLETT	04-24-97
		2	ADD DIMS FOR MODELS TO TAB	2C	DAH	DAH	GILLETT	04-24-97
75718	C	1	REV PER ER	-	CSE	DG	GILLETT	11-18-97
77136	D	1	PICT. CHANGED TO SHOW OVAL COVERS	-	WP	BG	HLS	04-15-98
FRD4519	E	1	ADD MODEL GGFD, FE TO TABULATION	-	WP	WP	LS	03-27-00
		2	TITLE WAS OUTLINE-HOUSING (F001)	1A	WP	WP	LS	03-27-00
FRD4705	F	1	DIM C (F179 DGBB, BC) WAS 1481[58.3]	1C	WP	WP	LS	06-05-00
		2	DIM C (F176 DGBB, BC) WAS 1622[63.9]	1C	WP	WP	LS	06-05-00

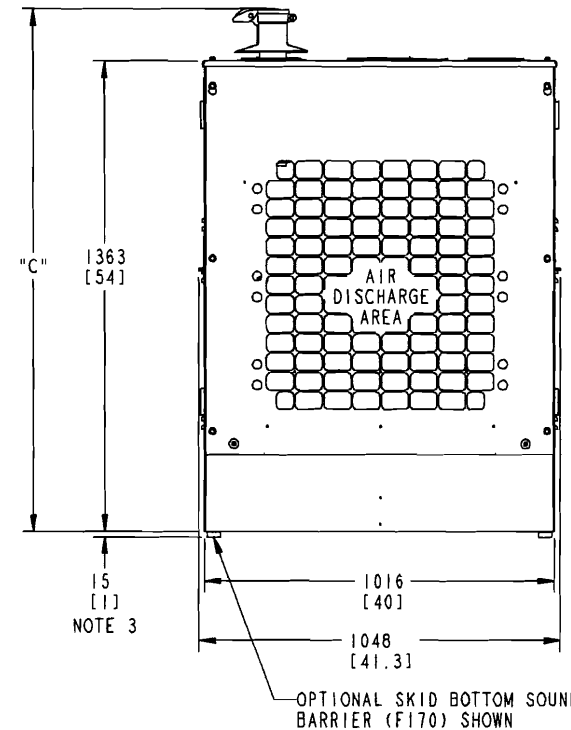
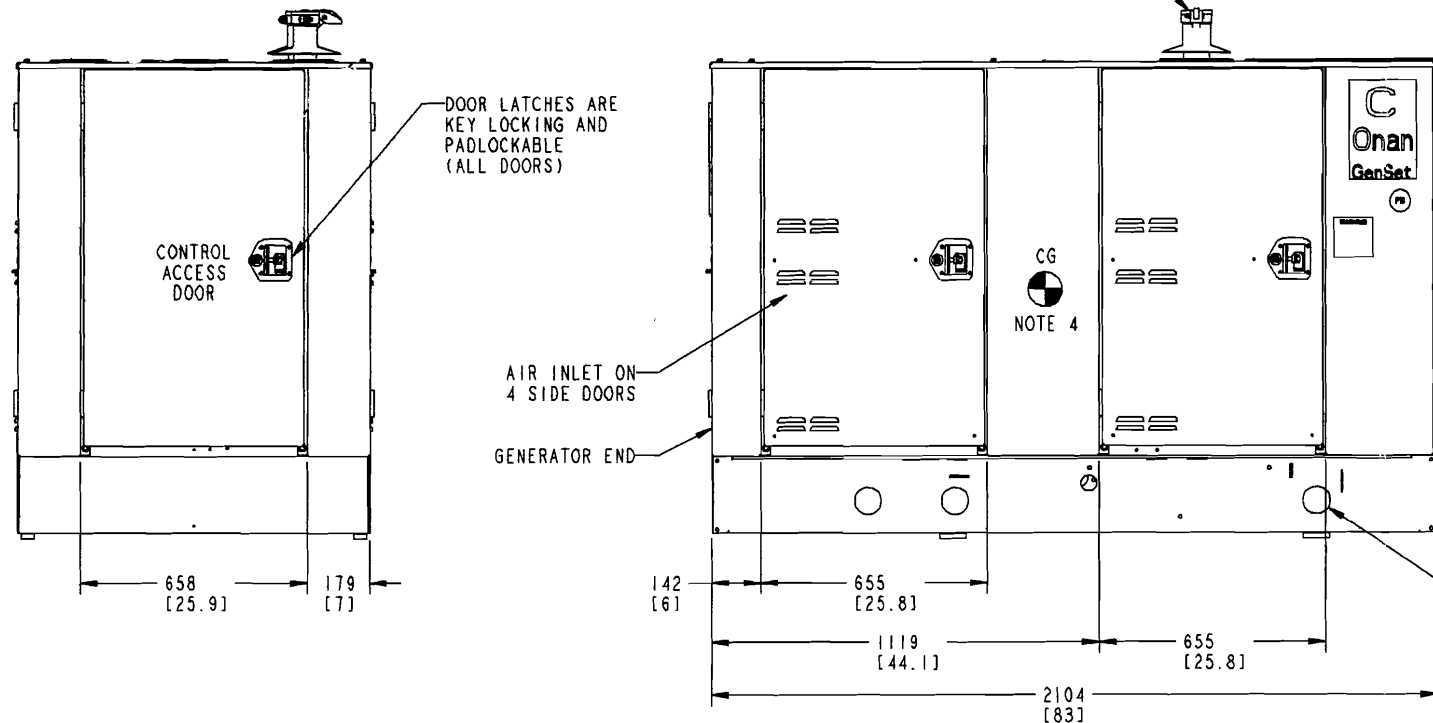
NOTE:

- DIMENSIONS SHOWN IN [] ARE INCHES.
- HOUSING AND MUFFLER WEIGHT: 141 kg [310 lbs]
- HEIGHT INCREASE OF 15 [0.6] WHEN OPTIONAL SKID SOUND BARRIER IS USED.
- THE CENTER OF GRAVITY (CG) OF THE GENERATOR SET WHEN EQUIPPED WITH THIS HOUSING SHIFTS APPROXIMATELY 16 [.6] TOWARD THE GENERATOR END COMPARED TO THE EQUIVALENT NON-HOUSED PRODUCT WITH THE F179 SKID. SEE HOUSING READY SKID BASE OUTLINE DRAWING FOR CG LOCATION OF NON-HOUSED PRODUCT.

TABULATION				
MODEL	DIM "A"	DIM "B"	DIM "C" WITH F179 SKIDBASE (SHOWN)	DIM "C" WITH F176 SKIDBASE
DGBB, BC	1625 [64.0]	626 [24.6]	1760 [69.3]	1901 [74.8]
DGCA, CB	1607 [63.3]	630 [32.7]	1760 [69.3]	1901 [74.8]
DGCC	1638 [64.5]	630 [32.7]	1760 [69.3]	1901 [74.8]
GGFB, FC	1034 [40.7]	186 [7.3]	1513 [59.5]	-----
GGFD, FE	1402 [55.2]	196 [7.7]	1513 [59.5]	-----



GGFD, FE MOUNTED EXHAUST MUFFLER (A379) LOCATION MUFFLER 63.5 [2.5] OD



CLASSIFICATION OF CHARACTERISTICS

CRITICAL ●

MAJOR ○

MINOR (NONE)

APPROVED R. ENGELMANN

DATE 11-18-96

LINE BELOW SYMBOL ● APPLIES TO UPPER LIMIT

LINE ABOVE SYMBOL ○ APPLIES TO LOWER LIMIT

NO LINE WITH SYMBOL APPLIES TO BOTH LIMITS

KEY INSTRUCTION (NO TOLERANCE)

METRIC DWG Pro/ENGINEER

DO NOT SCALE PRINT	TOLERANCE UNLESS OTHERWISE SPECIFIED	DATE	NAME	DATE
ANG TOL: 1.0	INCH 1 ± .1 .1 ± 0.0 .1 ± 0.38	11-18-96	D. HOFMEISTER	11-18-96
DRAWN TO 1/10 SCALE OF	MIL 1.00 ± .01 .100 ± .005 .010 ± .002	11-18-96	S. JULIK	11-18-96
	MILLIMETER 1.00 ± .01 .100 ± .005 .010 ± .002	11-18-96	R. ENGELMANN	11-18-96

MINNEAPOLIS, MINNESOTA 55432

TITLE: OUTLINE-HOUSING (F182)

DWG NO: 0500_3171

0500_3171

WEATHER PROTECTIVE HOUSING