

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

Permit No: 01-0710	Issue Date: <b>JUL 12 2001</b>	APL: 4 C001001
<b>CITY OF PORTLAND</b>		
Location of Construction: 331 Veranda St	Owner Name: Penobscot Bay Medical	Owner Address: Po Box 9746 Portland, ME 04101
Business Name: n/a	Contractor Name: Electronic Environments Corp.	Contractor Address: 60 Shawmut Road Canton
Lessee/Buyer's Name n/a	Phone: n/a	Permit Type: Additions - Commercial
Past Use: Medical Center	Proposed Use: Medical Center/Furnish & Install 10' x 6' concrete pad for outdoor emergency generator. Extend fence approx. 28 linear feet for architectural screening.	Permit Fee: Cost of Work: \$4,000.00
Proposed Project Description: Install 10' x 6' concrete pad.		CEO District: 2
		FIRE DEPT: <input type="checkbox"/> Approved <input type="checkbox"/> Denied
		INSPECTION: Use Group: 4 Type: <i>RT</i>
		Signature: <i>[Signature]</i>
		Signature: <i>[Signature]</i>
		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: gg	Date Applied For: 06/15/2001	<b>Zoning Approval</b>		
1. This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.  2. Building permits do not include plumbing, septic or electrical work.  3. 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 <input type="checkbox"/> Shoreland <input type="checkbox"/> Wetland <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input checked="" type="checkbox"/> Site Plan # 2001-0157 Maj <input type="checkbox"/> Minor <input checked="" type="checkbox"/> MM <input type="checkbox"/> Date: <i>6/29/01</i>	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 Date: _____	Historic Preservation <input checked="" type="checkbox"/> Not in District or Landmark <input type="checkbox"/> Does Not Require Review <input type="checkbox"/> Requires Review <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied Date: <i>9</i>	
	Signature: _____ 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

THIS IS NOT A PERMIT/CONSTRUCTION CANNOT COMMENCE UNTIL THE PERMIT IS ISSUED

## All Purpose Building Permit Application

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

Location/Address of Construction: 331 Veranda Street

Total Square Footage of Proposed Structure ~ 60 sqft      Square Footage of Lot N/A

<b>Tax Assessor's Chart, Block &amp; Lot Number</b> Chart# 434 Block# C Lot# 001	<b>Owner:</b> Martin's Point Health Care 331 Veranda Street	<b>Telephone#:</b> Gene Ceillies (207) 828-2418
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<b>Lessee/Buyer's Name (If Applicable)</b>	<b>Owner's/Purchaser/Lessee Address:</b>	<b>Cost Of Work:</b> \$4,000.00 <b>Fee:</b>
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Current use: N/A

If the location is currently vacant, what was prior use:  
Approximately how long has it been vacant:

Proposed use: Equipment Foundation

Project description: Furnish and install 10' x 6' concrete pad for outdoor emergency generator. Extend existing fence approx. 28 linear feet for architectural screening.

**Contractor's Name, Address & Telephone:** Electronic Environments Corp. (EEC)  
60 Shawmut Ad.  
Canton, MA 02021 (781) 858-0591

**Applicants Name, Address & Telephone:** Martin's Point Health Care  
331 Veranda Street (207) 828-2418

**Who should we contact when the permit is ready:** Karen Nordstrom - Contractor  
**Telephone:** (781) 858-0591

If you would like the permit mailed, what mailing address should we use:  
Will pick up when ready

**Rec'd By:**

**THIS IS NOT A PERMIT/CONSTRUCTION CANNOT COMMENCE UNTIL THE PERMIT IS ISSUED**

**PLOT PLAN INCLUDES THE FOLLOWING:**

- The shape and dimension of the lot, all existing buildings (if any), the proposed structure and the distance from the actual property lines. Structures include decks porches; a bow windows cantilever sections and roof overhangs, as well as, sheds, pools, garages and any other accessory structures.
- Scale and North arrow; Zoning District & Setbacks
- First Floor sill elevation ( based on mean sea level datum);
- Location and dimensions of parking areas and driveways;
- Location and size of both existing utilities in the street and the proposed utilities serving the building;
- Location of areas on the site that will be used to dispose of surface water.
- Existing and proposed grade contours

**A COMPLETE SET OF CONSTRUCTION DRAWINGS INCLUDES THE FOLLOWING:**

- Cross Sections w/Framing details (including porches, decks w/ railings, and accessory structures)
  - Floor Plans & Elevations
  - Window and door schedules
  - Foundation plans with required drainage and damp proofing
- Electrical and plumbing layout. Mechanical drawings for any specialized equipment such as furnaces, chimneys, gas equipment, HVAC equipment (air handling) or other types of work that may require special review must be included.

**SEPARATE PERMITS ARE REQUIRED FOR INTERNAL & EXTERNAL PLUMBING, HVAC AND ELECTRICAL INSTALLATIONS** *filed by subs*

- All construction must be conducted in compliance with the 1999 B.O.C.A. Building Code as amended by Section 6-Art II.
- All plumbing must be conducted in compliance with the State of Maine Plumbing Code.
- All Electrical Installation must comply with the 1999 National Electrical Code as amended by Section 6-Art III.
- HVAC (Heating, Ventilation and Air Conditioning) installation must comply with the 1993 BOCA Mechanical Code.

Minor/Minor Site Review Fee for New Single Family homes: \$300.00/Building Permit Fee: \$30.00 for the 1st \$1000.cost plus \$6.00 per \$1,000.00 construction cost thereafter.

**ONE SET OF SUBMISSIONS INCLUDING CONSTRUCTION AND SITE PLAN DRAWINGS MUST BE SUBMITTED ON PAPER NO LARGER THAN 11" x 17" BEFORE ANY BUILDING PERMIT WILL BE ISSUED**

**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/her authorized agent. I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in this application is issued, I certify that the Code Official's authorized representative shall have the authority to enter all areas covered by this permit at any reasonable hour to enforce the provisions of the codes applicable to this permit.*

Signature of applicant:

*Ernest M. O'Neil*

Date:

*6-15-01*

**Site Review Pre-Application  
Multi-Family/Attached Single Family Dwellings/Two-Family Dwelling  
or Commercial Structures and Additions Thereto**

In the interest of processing your application in the quickest possible manner, please complete the Information below for Site Plan Review

**NOTE\*\*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.**

Applicant Martin's Point Health care Application Date 6/15/01

Applicant's Mailing Address 331 Veranda Street Project Name/Description Emergency Power Generator

Consultant/Agent Electronic Environments Corp Contractor Address Of Proposed Site 331 Veranda Street

Applicant/Agent Daytime telephone and FAX \_\_\_\_\_ Assessor's Reference, Chart#, Block Lot# \_\_\_\_\_

Proposed Development (Check all that apply)  New Building  Building Addition  Change of Use  Residential  Office  Retail  Manufacturing  Warehouse/Distribution  Other(Specify) Install Emergency Power Generator

N/A N/A RP Res/Prof  
Proposed Building Square Footage and /or # of Units Acreage of Site Zoning

You must Include the following with you application:  
1) A Copy of Your Deed or Purchase and Sale Agreement  
2) 9 sets of Site Plan packages containing the information found in the attached sample plans and checklist.  
(Section 14-522 of the Zoning Ordinance outlines the process, copies are available for review at the counter, photocopies are \$ 0.25 per page)

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/her authorized agent. I agree to conform to all applicable laws of this jurisdiction. In addition, if an approval for the proposed project or use 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 approval at any reasonable hour to enforce the provisions of the codes applicable to this approval.

Signature of applicant: [Signature] Date: 6-15-01

Site Review Fee: Major \$500.00 Minor 400.00

This application is for site review ONLY, a Building Permit application and associated fees will be required prior to construction.

BUILDING PERMIT REPORT

DATE: 19 June 2001 ADDRESS: 331 Veranda ST- CBL: 434-C-001

REASON FOR PERMIT: To place a 6'x10' Concrete pad

BUILDING OWNER: Penobscot Bay Medical

PERMIT APPLICANT: CONTRACTOR Electronic Environmental

USE GROUP: U CONSTRUCTION TYPE: CONSTRUCTION COST: 4000.00 PERMIT FEES: 498.00

The City's Adopted Building Code (The BOCA National Building Code/1999 with City Amendments)
The City's Adopted Mechanical Code (The BOCA National Mechanical Code/1993)

CONDITION(S) OF APPROVAL

This permit is being issued with the understanding that the following conditions shall be met: #1, #2, #28 #32

- 1. This permit does not excuse the applicant from meeting applicable State and Federal rules and laws.
2. Before concrete for foundation is placed, approval from the Development Review Coordinator and Inspection Services must be obtained. (A 24 hour notice is required prior to inspection) "ALL LOT LINES SHALL BE CLEARLY MARKED BEFORE CALLING."
3. Foundation drain shall be placed around the perimeter of a foundation that consists of gravel or crushed stone containing not more than 10 percent material that passes through a No. 4 sieve.
4. Foundations anchors shall be a minimum of 1/2" in diameter, 7" into the foundation wall, minimum of 12" from corners of foundation and a maximum 6' O.C. between bolts.
5. Waterproofing and dampproofing shall be done in accordance with Section 1813.0 of the building code.
6. Precaution must be taken to protect concrete and masonry. Concrete Sections 1908.9-19.8.10/ Masonry Sections 2111.3-2111.4.
7. It is strongly recommended that a registered land surveyor check all foundation forms before concrete is placed. This is done to verify that the proper setbacks are maintained.
8. Private garages located beneath habitable rooms in occupancies in Use Group R-1, R-2, R-3 or I-1 shall be separated from adjacent interior spaces by fire partitions and floor/ceiling assembly which are constructed with not less than 1-hour fire resisting rating.
9. All chimneys and vents shall be installed and maintained as per Chapter 12 of the City's Mechanical Code.
10. Sound transmission control in residential building shall be done in accordance with Chapter 12, Section 1214.0 of the City's Building Code.
11. Guardrails & Handrails: A guardrail system is a system of building components located near the open sides of elevated walking surfaces for the purpose of minimizing the possibility of an accidental fall from the walking surface to the lower level.
12. Headroom in habitable space is a minimum of 7'6".
13. Stair construction in Use Group R-3 & R-4 is a minimum of 10" tread and 7 1/2" maximum rise.
14. The minimum headroom in all parts of a stairway shall not be less than 80 inches.
15. The Minimum required width of a corridor shall be determined by the most restrictive of the criteria under section 1011.3 but not less than 36".
16. Every sleeping room below the fourth story in buildings of Use Groups R and I-1 shall have at least one operable window or exterior door approved for emergency egress or rescue.
17. Each apartment shall have access to two (2) separate, remote and approved means of egress.
18. All vertical openings shall be enclosed with construction having a fire rating of at least one (1) hour, including fire doors with self closure's.
19. The boiler shall be protected by enclosing with (1) hour fire rated construction including fire doors and ceiling, or by providing automatic extinguishment.

6/15

- 20. All single and multiple station smoke detectors shall be of an approved type and shall be installed in accordance with the provisions of the City's Building Code Chapter 9, Section 920.3.2 (BOCA National Building Code/1999), and NFPA 101 Chapter 18 & 19. (Smoke detectors shall be installed and maintained at the following locations):
  - In the immediate vicinity of bedrooms
  - In all bedrooms
  - In each story within a dwelling unit, including basements
- 21. A portable fire extinguisher shall be located as per NFPA #10. They shall bear the label of an approved agency and be of an approved type. (Section 921.0)
- 22. The Fire Alarm System shall be installed and maintained to NFPA #72 Standard.
- 23. The Sprinkler System shall be installed and maintained to NFPA #13 Standard.
- 24. All exit signs, lights and means of egress lighting shall be done in accordance with Chapter 10 Section & Subsections 1023.0 & 1024.0 of the City's Building Code. (The BOCA National Building Code/1999)
- 25. Section 25 - 135 of the Municipal Code for the City of Portland states, "No person or utility shall be granted a permit to excavate or open any street or sidewalk from the time of November 15 of each year to April 15 of the following year".
- 26. The builder of a facility to which Section 4594-C of the Maine State Human Rights Act Title 5 MRSA refers, shall obtain a certification from a design professional that the plans commencing construction of the facility, the builder shall submit the certification the Division of Inspection Services.
- 27. Ventilation and access shall meet the requirements of Chapter 12 Sections 1210.0 and 1211.0 of the City's Building Code. (Crawl spaces & attics).
- X 28. All electrical, plumbing and HVAC permits must be obtained by Master Licensed holders of their trade. No closing in of walls until all electrical (min. 72 hours notice) and plumbing inspections have been done.
- 29. All requirements must be met before a final Certificate of Occupancy is issued.
- 30. All building elements shall meet the fastening schedule as per Table 2305.2 of the City's Building Code (The BOCA National Building Code/1996).
- 31. Ventilation of spaces within a building shall be done in accordance with the City's Mechanical code (The BOCA National Mechanical Code/1993). (Chapter M-16)
- 32. Please read and implement the attached Land Use Zoning report requirements.
- 33. Boring, cutting and notching shall be done in accordance with Sections 2305.3, 2305.3.1, 2305.4.4 and 2305.5.1 of the City's Building Code.
- 34. Bridging shall comply with Section 2305.16.
- 35. Glass and glazing shall meet the requirements of Chapter 24 of the building code. (Safety Glazing Section 2406.0)
- 36. All flashing shall comply with Section 1406.3.10.
- 37. All signage shall be done in accordance with Section 3102.0 signs of the City's Building Code, (The BOCA National Building Code/1999).

*All conditions and requirements on the attached site development review sheet shall be met*

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*[Signature]*  
 P. Samuel Hoffes, Building Inspector  
 Lt. McDougall, PFD  
 Marge Schmuckal, Zoning Administrator  
 Michael Nugent, Inspection Service Manager

PSH 10/1/00

**\*\*This permit is herewith issued, on the basis of plans submitted and conditions placed on these plans, any deviations shall require a separate approval.**

**\*\*\*THIS PERMIT HAS BEEN ISSUED WITH THE UNDERSTANDING THAT ALL THE CONDITIONS OF THE APPROVAL SHALL BE COMPLETED. THEREFORE, BEFORE THE WORK IS COMPLETED A REVISED PLAN OR STATEMENT FROM THE PERMIT HOLDER SHALL BE SUBMITTED TO THIS OFFICE SHOWING OR EXPLAINING THAT THE CONDITIONS HAVE BEEN MET. IF THIS REQUIREMENT IS NOT RECEIVED YOUR CERTIFICATE OF OCCUPANCY SHALL BE WITHHELD. ( You Shall Call for Inspections )**

**\*\*\*\*ALL PLANS THAT REQUIRE A PROFESSIONAL DESIGNER'S SEAL, (AS PER SECTION 114.0 OF THE BUILDING CODE) SHALL ALSO BE PRESENTED TO THIS DIVISION ON AUTO CAD LT. 2000, DXF FORMAT OR EQUIVALENT.**

**\*\*\*\*\*CERTIFICATE OF OCCUPANCY FEE \$50.00**

**CITY OF PORTLAND, MAINE  
DEVELOPMENT REVIEW APPLICATION  
PLANNING DEPARTMENT PROCESSING FORM  
Insp Copy**

2001-0151  
Application I. D. Number  
  
06/15/2001  
Application Date  
  
331 Veranda Street  
Project Name/Description

**Penobscot Bay Medical**  
Applicant  
**Po Box 9746, Portland, ME 04104**  
Applicant's Mailing Address  
**Electric Environments Corp.**  
Consultant/Agent  
**Agent Ph: (207)858-0591      Agent Fax:**  
Applicant or Agent Daytime Telephone, Fax

**331 - 331 Veranda St, Portland, Maine**  
Address of Proposed Site  
**434 C001001**  
Assessor's Reference: Chart-Block-Lot

Proposed Development (check all that apply):  
 New Building     Building Addition     Change Of Use     Residential     Office     Retail  
 Manufacturing     Warehouse/Distribution     Parking Lot     Other (specify) **Install Emerg. Power Generat**

Proposed Building square Feet or # of Units \_\_\_\_\_ Acreage of Site \_\_\_\_\_ Zoning **RP**

**Check Review Required:**

- |   |  |  |  |
|---|--|--|--|
| <input checked="" type="checkbox"/> Site Plan (major/minor) | <input type="checkbox"/> Subdivision # of lots _____ | <input type="checkbox"/> PAD Review            | <input type="checkbox"/> 14-403 Streets Review   |
| <input type="checkbox"/> Flood Hazard                       | <input type="checkbox"/> Shoreland                   | <input type="checkbox"/> Historic Preservation | <input type="checkbox"/> DEP Local Certification |
| <input type="checkbox"/> Zoning Conditional Use (ZBA/PB)    | <input type="checkbox"/> Zoning Variance             |  | <input type="checkbox"/> Other _____             |

Fees Paid: Site Plan **\$400.00** Subdivision \_\_\_\_\_ Engineer Review \_\_\_\_\_ Date: **06/18/2001**

**Insp Approval Status:**

Reviewer **Marge Schmuckal**

- Approved       Approved w/Conditions See Attached       Denied

Approval Date **06/29/2001**      Approval Expiration **06/29/2002**      Extension to \_\_\_\_\_       Additional Sheets Attached

Condition Compliance      **Marge Schmuckal** signature      **06/29/2001** date

Performance Guarantee       Required\*       Not Required

\* No building permit may be issued until a performance guarantee has been submitted as indicated below

<input type="checkbox"/> Performance Guarantee Accepted	_____	_____	_____
	date	amount	expiration date
<input type="checkbox"/> Inspection Fee Paid	_____	_____	
	date	amount	
<input type="checkbox"/> Building Permit Issued	_____		
	date		
<input type="checkbox"/> Performance Guarantee Reduced	_____	_____	_____
	date	remaining balance	signature
<input type="checkbox"/> Temporary Certificate of Occupancy	_____	<input type="checkbox"/> Conditions (See Attached)	_____
	date		expiration date
<input type="checkbox"/> Final Inspection	_____	_____	
	date	signature	
<input type="checkbox"/> Certificate Of Occupancy	_____		
	date		
<input type="checkbox"/> Performance Guarantee Released	_____	_____	
	date	signature	
<input type="checkbox"/> Defect Guarantee Submitted	_____	_____	_____
	submitted date	amount	expiration date



## **TABLE OF CONTENTS**

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# **ELECTRONIC ENVIRONMENTS CORPORATION**

## **PROJECT DESCRIPTION**

The proposed project being submitted under this Pre-Site Plan and Building Permit Application is for the installation of a new emergency generator at 331 Veranda Street. Martin's Point Health Care (owner) requires new standby power in conjunction with another project currently underway to build a new data and telecommunications facility within the Carriage House lower level.

### **Background**

Martin's Point Health Care is a not-for-profit health care organization providing primary health care and specialty medical services to over 50,000 patients in the state of Maine. Medical services are provided from facilities located in Portland, Brunswick, Windham, and Portsmouth NH and includes medical services for retired military and dependents of active duty military personnel.

Martin's Point Health Care is a recognized industry leader in developing new and innovative approaches for improved health care and patient services. Of significant note is a web-based service where patients can make appointments, fill prescriptions, and correspond with physicians and health care professionals through a secure on-line website. This program won a national technology award in 2000 from the Healthcare Innovations in Technology Systems Partnership. An on-site pharmacy, also located in the Carriage House, provides convenient 24-hour service, and houses an advanced robotics medication dispenser for improved prescription accuracy and patient safety.

These advanced technologies demand 100% guaranteed systems availability for the information technology services supporting Martin's Point business and data center operations. The Carriage House data and telecommunications facility will house a new telephone switch, voice messaging system, data servers, data routing equipment and peripheral hardware. New fiber optic telecommunication circuits have been installed by Verizon and MaineCom to provide 100% reliable, redundant connectivity between Portland, other Martin's Point facilities, clinics, special service providers, and patients. Once commissioned, the new facility will house all critical information technology services for Martin's Point Health Care, and cannot be subjected to utility loss without significantly jeopardizing patient care services.

### **Facility Design**

The facility infrastructure design includes interior renovations, upgrade of the existing utility service entrance, a new 30 KW Uninterruptible Power Supply (UPS) to provide 10 minutes of battery backup at full electrical load, precision HVAC system to maintain proper ambient temperature and relative humidity, and an FM200 gas fire suppression system. Permits for this work have been received and construction is in progress with an expected completion date of June 20, 2001.

Installation of a standby emergency generator, the subject of this application, will provide continuous power in the event of a utility outage lasting more than 10 minutes. The generator is designed to start automatically and electrical loads transferred by using a Zenith Automatic Transfer Switch.

### Proposed Site

331 Veranda Street is zoned RP and includes four (4) buildings owned by Martin's Point and The Marine Hospital, owned by the Portland School Department. The Carriage House is bordered south by Casco Bay, east by pharmacy parking and entrance, north by Veranda Street and maintenance parking, and west by maintenance parking and a real estate office. The proposed generator location is the only area on the property with enough available space to accommodate the generator set and meet service access requirements and clearances, without the taking of existing parking spaces. Parking is already very limited. The proposed site is not in the public view from Veranda Street, and can be architecturally screened from public view on the east parking lot side by extending the existing fencing surrounding the dumpster.

Photographs of the proposed generator location are included in Section V of this application. Drawing S2, included in Section IV, provides a site plan and dimensioned setbacks.

### Proposed Generator Equipment

The generator set proposed is a Caterpillar Olympian Model D100P1 and has been sized to provide 95-100KW of 208/120V, 3 phase, standby power. This capacity will support the anticipated electrical and mechanical loads of the data and telecommunications facility as well as provide some additional capacity (approx. 20%) for future loads. The generator includes an integral UL listed diesel fuel storage tank with a capacity of 224 gallons to provide 24 hours of run time at full electrical load. The fuel tank includes a diked rupture basin for containment of fuel, lube oil and coolant fluids.

Because the proposed generator location marginally meets the 75 foot shoreline setback requirement, point leak detectors will be installed within the generator housing. The leak detection will provide early warning leak alarms for both fuel and ethylene glycol coolant using an existing Sensiphone site monitoring system. Alarm signals will be sent over an analog telephone line to qualified maintenance personnel on a 7/24-hour, 365-day basis. A remote status panel will be installed within the Carriage House building to provide additional generator status indicators (fuel and coolant levels, run status, engine temperature, etc.) to on-site personnel. This design represents a proactive means of environmental protection by mitigating and correcting a fuel or coolant leak, prior to exposure to the environment.

A sound attenuated weatherproof enclosure, also manufactured by Caterpillar, will be provided. Sound levels for the proposed enclosure are listed as 73 dB at 23 feet, 67 dB at 50 feet and 84 dB at 3 feet for the engine running at full load.

Drawing S1, included in Section IV, provides elevations and details for the generator, concrete pad construction, and new fencing. Manufacturer specifications for the generator, sound enclosure, fuel tank and leak detectors are provided in Section VI.



PROJECT SITE FROM VERANDA STREET



PROPOSED GENERATOR LOCATION FROM PHARMACY PARKING LOT



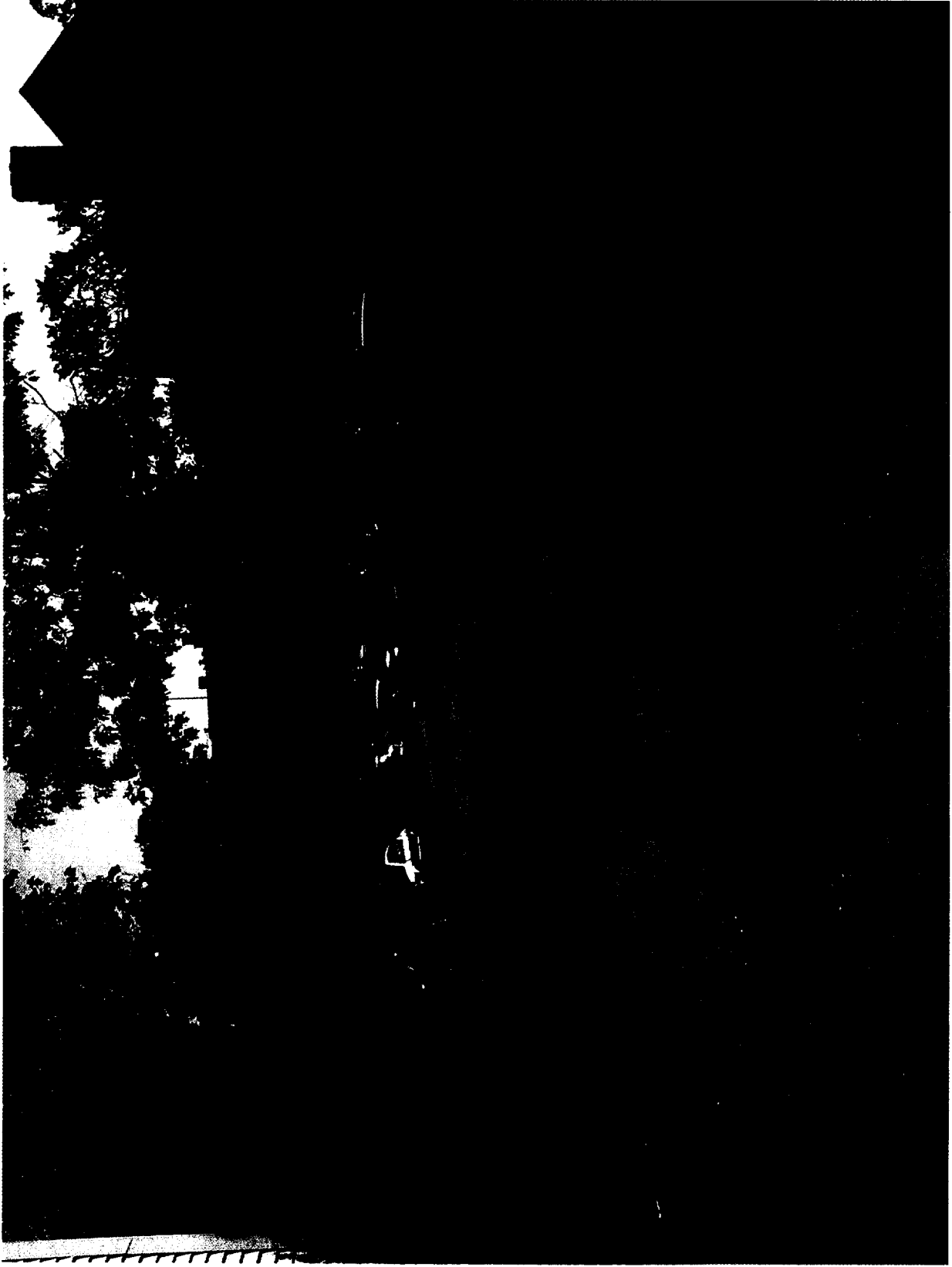
LOCATION FROM PHARMACY PARKING LOT - CLOSER



PROPOSED GENERATOR LOCATION FROM SOUTHWEST CORNER

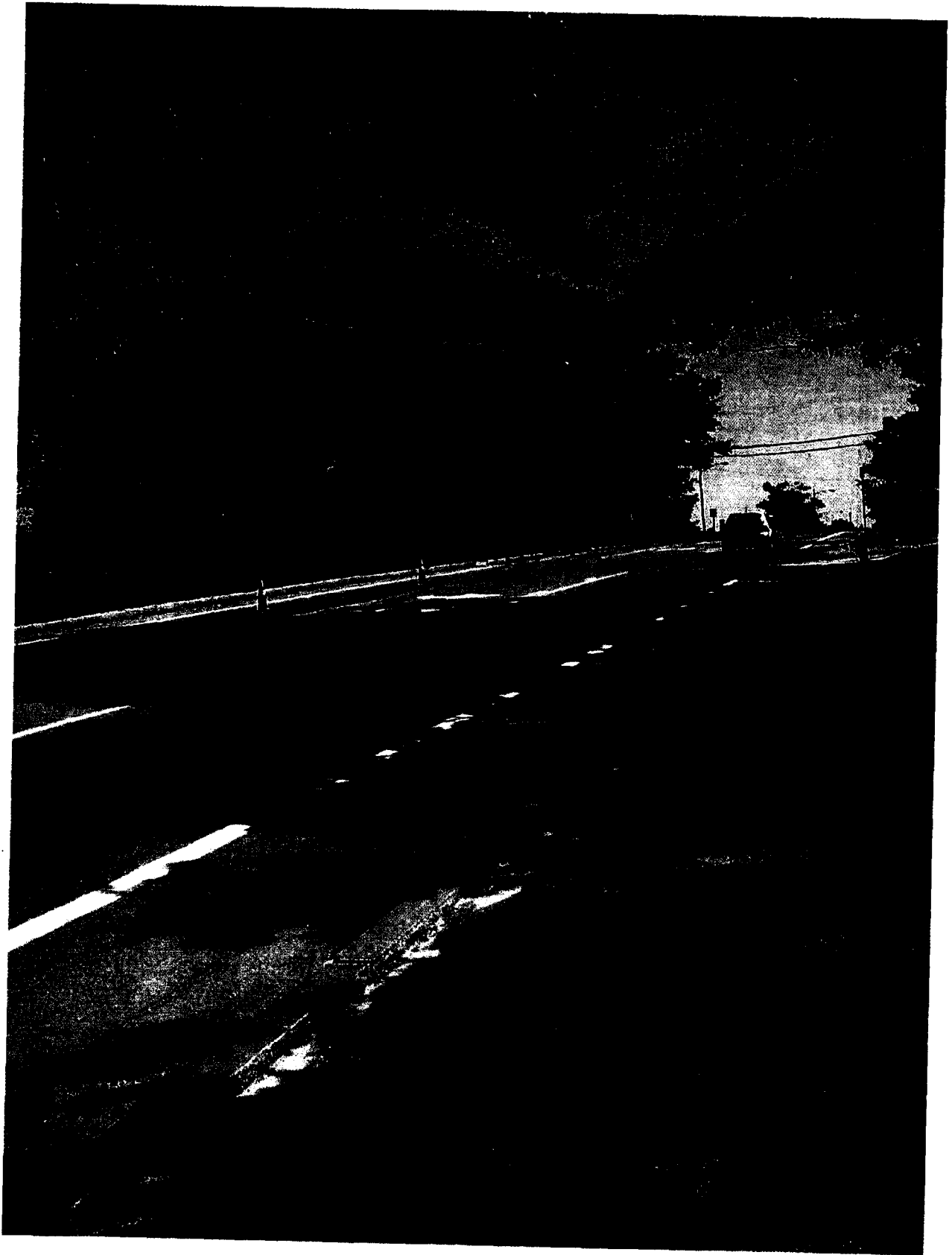


VERANDA STREET SOUTH FROM SITE



PROPOSED CONCRETE PAD LOCATION



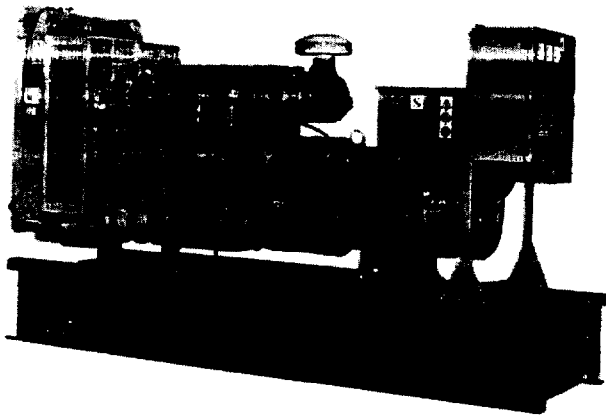


VERANDA STREET NORTH FROM SITE

# DIESEL GENERATOR SETS

# OLYMPIAN™

Exclusively from your Caterpillar® dealer



**STANDBY 90-150 kW**  
**PRIME 82.4-114 kW**  
60 Hz

Model	Standby kW (kVA)	Prime kW (kVA)
D90P1	90 (112.5)	82.4 (103)
D100P1	100 (125)	90 (112.5)
D100P2*	100 (125)	90 (112.5)
D125P1	125 (156.3)	114 (142.5)
D125P2*	125 (156.3)	114 (142.5)
D150P1	150 (187.5)	N/A

\*EPA Approved, Emissions Certified

## FEATURES

### GENERATOR SET

- Complete system designed and built at ISO 9001 certified facilities
- Factory tested to design specifications at full load conditions

### ENGINE

- Governor, electronic (D125P1, D125P2, D150P1)
- Governor, mechanical (D90P1, D100P1, D100P2)
- Electrical system, 12 VDC
- Cartridge type filters
- Battery(s), rack and cables
- Coolant and lube drains piped to edge of base

### GENERATOR

- Insulation system, class H
- Drip proof alternator air intake (NEMA 2, IP23)
- Electrical design in accordance with BS5000 Part 99, IEC34-1, VDE0530, UTE51100, NEMA MG-1.22

### CONTROL SYSTEM

- 2001 Autostart control panel
- Vibration isolated NEMA 1 enclosure with lockable hinged door
- DC and AC wiring looms

### MOUNTING ARRANGEMENT

- Heavy-duty fabricated steel base with lifting points
- Directly mounted 10 dB(A) silencer
- Complete OSHA guarding
- Flexible fuel lines to base with NPT connections
- Anti-vibration pads to ensure vibration isolation
- Stub-up pipe ready for connection to silencer pipework

### COOLING SYSTEM

- Radiator and cooling fan complete with protective guards
- Standard ambient temperatures up to 122° F (50° C)

### CIRCUIT BREAKER

- UL/CSA listed
- 3-pole with solid neutral
- NEMA 1 steel enclosure, vibration isolated
- Electrical stub-up area directly below circuit breaker

### AUTOMATIC VOLTAGE REGULATOR

- Voltage within  $\pm 0.5\%$  at steady state from no load to full load
- Provides fast recovery from transient load changes

### EQUIPMENT FINISH

- All electroplated hardware
- Anticorrosive paint protection
- High gloss polyurethane paint for durability and scuff resistance

### QUALITY STANDARDS

- BS4999, BS5000, BS5514, IEC34, VDE0530, NEMA MG-1.22, NFPA 110 (with optional equipment)

### DOCUMENTATION

- Operation and maintenance manuals provided
- Wiring diagrams included

### WARRANTY

- 12 months from date of initial start-up or 18 months from shipping, whichever occurs first

Materials and specifications are subject to change without notice.

WHERE THE WORLD TURNS FOR POWER

**STANDBY 90 - 150 kW**  
**PRIME 82.4 - 114 kW**  
**60 Hz**

**OLYMPIAN™**

*Exclusively from your Caterpillar® dealer*

**OPTIONAL EQUIPMENT\***

**ENCLOSURE**

- Weather protective enclosure (includes internal silencer system)
- Single point lift
- Panel viewing window
- External emergency stop pushbutton
- Sound attenuated enclosure (includes internal silencer system)
- Super sound attenuated enclosure (includes internal silencer system) (N/A D125P1, D150P1)

**SILENCER SYSTEM — OPEN UNIT**

- Level 1 "residential"
- Level 2 "critical"
- Level 3 "super critical"
- Mounting kit
- Through-wall installation kit

**ENGINE**

- Electronic governor
- Battery heater
- Lube oil drain valve
- Lube oil drain pump
- High lube oil temperature shutdown
- Lube oil sump heater

**CIRCUIT BREAKER**

- Auxiliary voltfree contacts
- Shunt trip (100+ amp breakers)

**GENERATOR**

- Anti-condensation heater
- Drip proof alternator air intake
- Permanent magnet generator
- AREP excitation system
- Alternator upgrade 1 size (except D150P1)

**CONTROL SYSTEM**

- No control system
- 4001 Series Autostart control panel
- 4001E Series Autostart control panel
- Access 4000 digital control panel
- 6000 Series digital control panel

**FUEL SYSTEM**

- Single-walled plastic fuel tank (8-hour for open sets)
- UL listed closed top-diked skid-mounted fuel tank base (12/24-hour capacity)
- Critical high fuel alarm
- Fuel fill prevention solenoid
- AC and DC fuel transfer systems
- Manual fuel pump

**REMOTE ANNUNCIATORS**

- 8- and 16-channel remote annunciator panel (supplied loose)
- Remote annunciator upgrade normal/run control switch
- Remote annunciator upgrade lockdown emergency stop button

**COOLING SYSTEM**

- Coolant heater
- Low coolant temperature alarm
- Low coolant level shutdown
- Radiator transition flange

**MISCELLANEOUS ACCESSORIES**

- Toolkit
- Additional operator's manual pack
- Special enclosure color
- CSA certification
- French language labels

**EXTENDED WARRANTY**

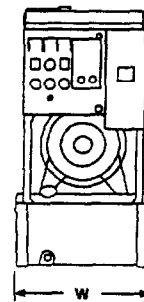
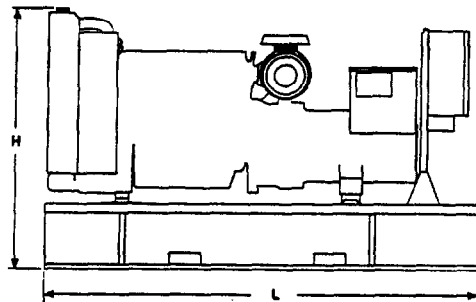
- 24 months
  - 36 months
  - 48 months
  - 60 months
- (See warranty policy for details of coverage)

**TESTING**

- Special factory test (0.8 pf test, extended time test, etc.)
- Factory witness test (restricted to 6 hours — full load, 1.0 pf)

\*Some options may not be available on all models. Not all options are listed.

**GENERATOR SET DIMENSIONS AND WEIGHTS**



Model	Length in (mm)	Width in (mm)	Height in (mm)	Weight lbs (kg)**
D90P1	94.5 (2400)	29.5 (750)	56.5 (1435)	2695 (1222)
D100P1	94.5 (2400)	29.5 (750)	56.5 (1435)	2695 (1222)
D100P2	94.5 (2400)	29.5 (750)	56.5 (1435)	2695 (1222)
D125P1	106 (2700)	35.4 (900)	57.5 (1460)	3124 (1417)
D125P2	106 (2700)	35.4 (900)	57.5 (1460)	3125 (1417)
D150P1	106 (2700)	35.4 (900)	57.5 (1460)	3246 (1472)

NOTE: General configuration not to be used for installation. See specific dimensional drawings for detail.

\*\*Includes oil and coolant

Materials and specifications are subject to change without notice.

**STANDBY 90 - 150 kW**  
**PRIME 82.4 - 114 kW**  
**60 Hz**

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**SPECIFICATIONS**

**GENERATOR**

Voltage Regulation..... ±1.0%, no load to full load  
 Frequency ..... ±0.8% for constant load,  
 no load to full load  
 Waveform Distortion..... THD < 1.8%, at no load  
 Radio Interference ..... Compliance with BS800 and  
 VDE Class G&N  
 Telephone Interference ..... TIF <50, THF <2%  
 Overspeed Limit..... 2250 rpm  
 Insulation ..... Class H  
 Temperature Rise ..... Within Class H limits  
 Available Voltages ..... 480/277, 460/266, 240/120,  
 220/127, 208/120, 600/347  
 Deration..... Consult factory for available outputs  
 Ratings ..... At 86° F (30° C), 500 ft. (152.4 m),  
 60% humidity, 0.8 pf

**ENGINE**

Manufacturer ..... Perkins  
 Type ..... 4-Cycle  
 Cylinder Configuration ..... In-line 6  
 Displacement — cu in (L) ..... 366 (6.0)  
 Bore — in (mm) ..... 3.94 (100.0)  
 Stroke — in (mm) ..... 5.00 (127.0)  
 Compression Ratio  
 D90P1, D100P1, D100P2, D125P1, D150P1 .... 16.0:1  
 D125P2 ..... 17.0:1  
 Governor  
 Type  
 D90P1, D100P1, D100P2..... Mechanical  
 D125P1, D125P2, D150P1 ..... Electronic  
 Class..... A1  
 Piston Speed — ft/sec (m/sec) ..... 25.0 (7.62)  
 Engine speed — rpm..... 1800  
 Air Cleaner Type ..... Dry, replaceable paper  
 element type with restriction indicator  
 Regenerative Power — kW ..... 16.2  
**D90P1 — 1006TG1A**  
 Max Power at Rated rpm — hp (kW)  
 Standby..... 152 (113)  
 Prime..... 136 (102)  
 BMEP — psi (kPa)  
 Standby ..... 183 (1259)  
 Prime ..... 164 (1133)  
 Aspiration ..... Turbocharged

**RATING DEFINITIONS**

**Standby** — Applicable for supplying continuous electrical power (at variable load) in the event of a utility power failure. No overload is permitted on these ratings. The generator is peak rated (as defined in ISO8528-3) at 86° F.

**D100P1 — 1006TG2A**

Max Power at Rated rpm — hp (kW)  
 Standby..... 166 (124)  
 Prime..... 151 (112)  
 BMEP — psi (kPa)  
 Standby ..... 202 (1393)  
 Prime..... 182 (1253)  
 Aspiration ..... Turbocharged

**D100P2 — 1006-6T**

Max Power at Rated rpm — hp (kW)  
 Standby..... 166 (124)  
 Prime..... 150 (112)  
 BMEP — psi (kPa)  
 Standby ..... 200 (1376)  
 Prime..... 182 (1253)  
 Aspiration ..... Turbocharged

**D125P1 — 1006TAG**

Max Power at Rated rpm — hp (kW)  
 Standby..... 219 (163)  
 Prime..... 201 (150)  
 BMEP — psi (kPa)  
 Standby ..... 266 (1836)  
 Prime ..... 234 (1610)  
 Aspiration..... Turbocharged, AA Charge

**D125P2 — 1006TA**

Max Power at Rated rpm — hp (kW)  
 Standby..... 216 (162)  
 Prime..... 197 (147)  
 BMEP — psi (kPa)  
 Standby ..... 262 (1799)  
 Prime ..... 238 (1635)  
 Aspiration..... Turbocharged, AA Charge

**D150P1 — 1006TAG1**

Max Power at Rated rpm — hp (kW)  
 Standby..... 219 (163)  
 Prime..... N/A  
 BMEP — psi (kPa)  
 Standby ..... 266 (1836)  
 Prime ..... N/A  
 Aspiration ..... Turbocharged, AA Charge Cooled

**CONTROL PANEL**

NEMA 1 steel enclosure with lockable hinged door  
 Vibration isolated mounted Autostart control panel  
 Single location customer connector point  
 Electrical stub-up area directly below control panel

**Prime** — Applicable for supplying continuous electrical power (at variable load) in lieu of commercially purchased power. There is no limitation to the annual hours of operation and the generator set can supply 10 percent overload power for 1 hour in 12 hours.

Consult your Olympian representative for more information.

www.cat-engines.com

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**STANDBY — 100 kW**  
**PRIME — 90 kW**  
**60 Hz**

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**D100P1 (3-Phase)**

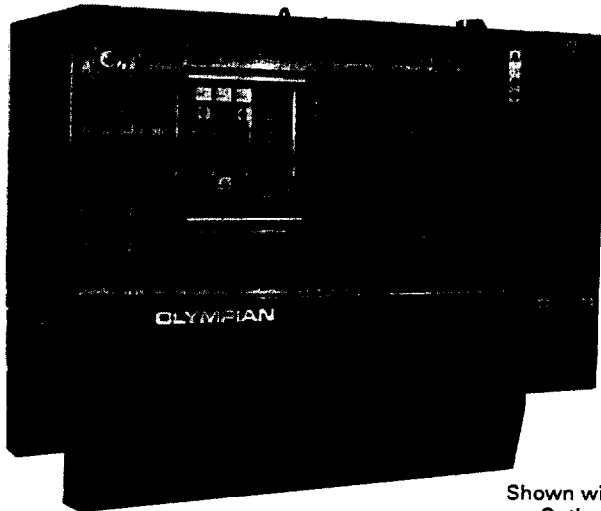
Materials and specifications are subject to change without notice.

Generator Set Technical Data — 1800 rpm/60 Hz		Standby	Prime
<b>Power Rating</b>	(kW/kVA)	100 (125.0)	90 (112.5)
<b>Lubricating System</b> Type: Full Pressure Oil Filter: Spin-On, Full Flow Oil Cooler: Watercooled Oil Type Required: API CD 15W-40 Total Oil Capacity Oil Pan	U.S. gal (L) U.S. gal (L)	4.3 (16.1) 3.5 (13.1)	4.3 (16.1) 3.5 (13.1)
<b>Fuel System</b> Generator Set Fuel Consumption			
100% Load	g/hr (L/hr)	6.07 (30.53)	7.30 (27.63)
50% Load	g/hr (L/hr)	4.48 (16.95)	
<b>Engine Electrical System</b> Voltage/Ground: 12/Negative Battery Charging Alternator Ampere Rating	amps	55	55
<b>Cooling System</b> Water Pump Type: Centrifugal Radiator System Capacity Maximum Engine Standby Minimum Engine Standby Temperature Rise Across Engine Heat Rejected to Coolant at Rated Power Total Heat Radiated to Room at Rated Power Radiator Fan Speed	U.S. gal (L) gpm (L/min) °C °C BTU/min (kW) BTU/min (kW) rpm (rev/min)	4.3 (16.1) 26.2 (100) 158 (70) 13.9 (53) 4550 (1690) 2351 (875) 847 (33)	4.3 (16.1) 26.2 (100) 158 (70) 13.9 (53) 4095 (1720) 1917 (737) 847 (33)
<b>Air Requirements</b> Combustion Air Flow Maximum Air Cleaner Restriction Radiator Cooling Air Alternator Cooling Air	cfm (m <sup>3</sup> /min) in H <sub>2</sub> O (kPa) cfm (m <sup>3</sup> /min) cfm (m <sup>3</sup> /min)	257 (7.8) 20 (5.0) 8200 (232) 985 (27.9)	261 (7.4) 20 (5.0) 8200 (232) 985 (27.9)
<b>Exhaust System</b> Exhaust Flow at Rated kW Exhaust Flow at Rated kW	cfm (m <sup>3</sup> /min) cfm (m <sup>3</sup> /min)	794 (22.5) 1076 (580)	705 (26.0) 1004 (540)
<b>Generator Set Noise Rating*</b> (Without Attenuation) at 3 ft (1 m)	dB(A)	95	95

Alternator Technical Data	600/347V	480/277V	460/266V	240/120V 208/120V	220/127V
<b>Motor Starting Capability (kVA)</b>					
Self-Excited	190	190	175	140	167
PM Excited**	215	215	185	160	180
AREP Excited	FBA	FBA	FBA	FBA	FBA
<b>Full Load Efficiencies:</b>					
Standby	90.5	90.5	90.3	89.3	89.9
Prime	90.8	90.8	90.6	89.6	90.2
<b>Reactances (per unit):</b>					
X <sub>d</sub>	3.94	3.94	4.28	5.23	4.68
X <sub>d'</sub>	0.15	0.15	0.186	0.199	0.177
X <sub>d''</sub>	0.092	0.092	0.100	0.122	0.110
X <sub>q</sub>	2.36	2.36	2.57	3.14	2.81
X <sub>q'</sub>	0.14	0.14	2.124	0.152	0.135
X <sub>q''</sub>	0.103	0.103	0.112	0.137	0.122
X <sub>0</sub>	0.006	0.006	0.006	0.006	0.006
<b>Time Constants:</b>	t <sub>d</sub>	t <sub>d</sub>	t <sub>d0</sub>	t <sub>a</sub>	
	0.100 sec	0.010 sec	2.576 sec	0.015 sec	

\* dB(A) levels are for guidance only  
 \*\* With PMG Excited Option AR12

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Shown with  
Optional  
Equipment

## CAE - SOUND ATTENUATED WEATHERPROOF ENCLOSURES

D20P1-D100P2  
D20P1S-D100P2S

These fully weatherproof, sound attenuated, factory installed, enclosures incorporate internally mounted exhaust silencers and non-UL listed steel base tanks. Optional UL listed tanks are available. These enclosures are of extremely rugged construction to withstand outdoor exposure and rough handling common on many construction sites. They are designed on modular principles with many interchangeable components permitting on-site repair.

### FEATURES

#### HIGHLY CORROSION RESISTANT CONSTRUCTION

- Body made from galvanized steel
- Stainless steel flush fitting latches and hinges tested and proven to withstand extreme conditions of corrosion
- Zinc plated or stainless steel fasteners
- Sheet steel components pre-treated with zinc phosphate prior to polyester powder coating at 392°F (200°C)

#### EXCELLENT ACCESS FOR MAINTENANCE

- Full length extra wide doors on each side
- Doors top hung and supported by gas struts
- Radiator fill access
- Lube oil and cooling water drains piped to exterior of the enclosure skidbase

#### SECURITY AND SAFETY

- Lockable access doors
- Control panel viewing window in a lockable access door
- Emergency stop push button (red) mounted flush on exterior enclosure wall
- Stub-up cover sheets for "rodent proofing"

- Cooling fan and battery charging alternator fully guarded
- Fuel fill and battery can only be reached via lockable access doors (only provided when optional fuel tank is ordered)
- Exhaust silencing system totally enclosed for operator safety

#### TRANSPORTABILITY

- Lifting points on baseframe
- Tested and certified single point lifting facility

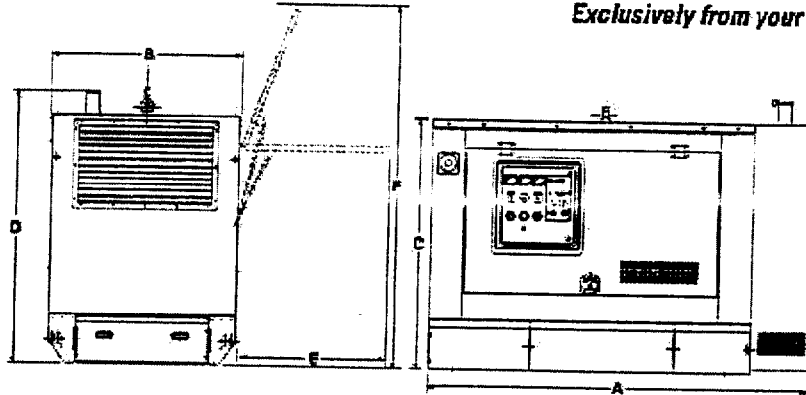
#### OPTIONS

- FSK Skidbase (without integral fuel tank)

# ENCLOSURES

# OLYMPIAN™

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## SOUND ATTENUATED WEATHERPROOF ENCLOSURES "C" SERIES DIMENSIONS AND WEIGHTS (with non-UL listed base tank)

Generator Set Model	A mm (in)	B mm (in)	C mm (in)	D mm (in)	E mm (in)	F mm (in)	Fuel Capacity L (US Gal)	Weight* kg (lbs)
D20P1-D25P1	2090 (82.3)	950 (37.4)	1450 (57.1)	1558 (61.3)	883 (34.8)	2010 (79.1)	200 (52.8)	993 (2189)
D20P2-D25P2, D30P4	2090 (82.3)	950 (37.4)	1450 (57.1)	1685 (66.3)	883 (34.8)	2010 (79.1)	200 (52.8)	1012 (2231)
D30P3	2250 (88.6)	1100 (43.3)	1500 (59.1)	1644 (64.7)	885 (34.8)	2080 (81.9)	250 (66.1)	1280 (2822)
D40P3, D40P2	2250 (88.6)	1100 (43.3)	1500 (59.1)	1644 (64.7)	885 (34.8)	2080 (81.9)	250 (66.1)	1280 (2822)
D50P3, D50P2	2250 (88.6)	1100 (43.3)	1500 (59.1)	1644 (64.7)	885 (34.8)	2080 (81.9)	250 (66.1)	1280 (2822)
D60P3, D60P2	2250 (88.6)	1100 (43.3)	1500 (59.1)	1644 (64.7)	885 (34.8)	2080 (81.9)	250 (66.1)	1345 (2965)
D75P3, D75P2	2250 (88.6)	1100 (43.3)	1500 (59.1)	1644 (64.7)	885 (34.8)	2080 (81.9)	250 (66.1)	1375 (3031)
D90P1-D100P1, D100P2	2805 (110.4)	1100 (43.3)	1500 (59.1)	1610 (63.4)	885 (34.8)	2030 (79.9)	250 (66.1)	1415 (3120)
D20P1S-D25P1S	2090 (82.3)	950 (37.4)	1450 (57.1)	1558 (61.3)	883 (34.8)	2010 (79.1)	200 (52.8)	1058 (2332)
D20P2S-D25P2S	2090 (82.3)	950 (37.4)	1450 (57.1)	1685 (66.3)	883 (34.8)	2010 (79.1)	200 (52.8)	1067 (2362)
D30P3S, D30P2S	2250 (88.6)	1100 (43.3)	1500 (59.1)	1644 (64.7)	885 (34.8)	2080 (81.9)	250 (66.1)	1280 (2822)
D40P3S, D40P2S	2250 (88.6)	1100 (43.3)	1500 (59.1)	1644 (64.7)	885 (34.8)	2080 (81.9)	250 (66.1)	1350 (2976)
D50P3S, D50P2S	2250 (88.6)	1100 (43.3)	1500 (59.1)	1644 (64.7)	885 (34.8)	2080 (81.9)	250 (66.1)	1415 (3120)
D60P3S, D60P2S	2250 (88.6)	1100 (43.3)	1500 (59.1)	1644 (64.7)	885 (34.8)	2080 (81.9)	250 (66.1)	1465 (3230)
D90P1S-D100P1S, D75P2S	2805 (110.4)	1100 (43.3)	1500 (59.1)	1610 (63.4)	885 (34.8)	2030 (79.9)	300 (79.3)	1912 (4215)
D100P1S, D100P2S	3900 (153.5)	1300 (51.2)	1850 (72.8)	2024 (79.7)	950 (37.4)	NA	550 (145.3)	1957 (4338)

\*Net weight with tube oil and coolant, no fuel, quoted for largest model in range.

## SOUND LEVELS

Generator Set Model	1800 rpm (60 Hz)					
	15 m (50 ft)		7 m (23 ft)		1 m (3 ft)	
	No Load (dBA)	Full Load (dBA)	No Load (dBA)	Full Load (dBA)	No Load (dBA)	Full Load (dBA)
D20P1, D20P1S, D25P1, D25P1S	63	65	68	70	79	81
D20P2, D20P2S, D25P2, D25P2S, D30P4	68	70	72	76.5	80	84
D30P3, D30P3S, D40P3, D40P3S	66	68.3	72	74.3	83.2	84.6
D40P2, D40P2S, D30P2S	66	69	72	75	84	88
D50P3, D50P3S, D60P3S	64.5	65.4	70.5	71.4	81.1	82.2
D50P3S, D75P3	64.5	66	70.5	72	81.1	82.7
D50P2, D50P2S, D60P2, D60P2S, D75P2	62	65	67	71	79	83
D90P1, D100P1, D90P1S, D100P1S, D75P1S, D100P2, D75P2S, D100P2S	64	67	70	73	80	84

The sound pressure level data shown is quoted as free field and is for guidance only. Actual levels produced may vary according to site conditions.

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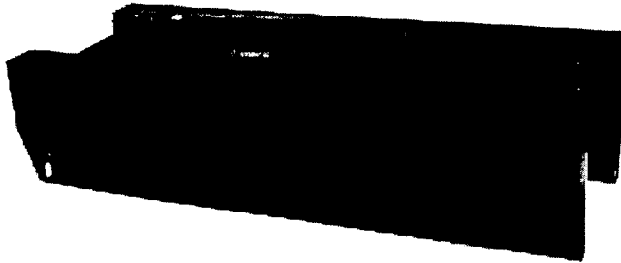
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Materials and specifications are subject to change without notice.  
The International System of Units (SI) is used in this publication.

# FUEL SYSTEMS OLYMPIAN™

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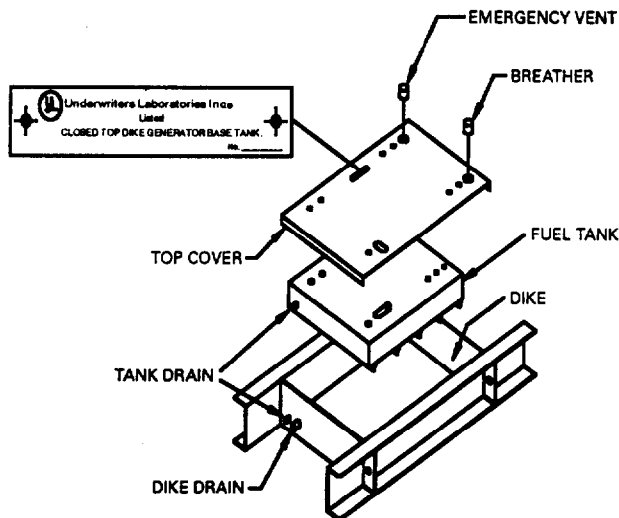
## UL LISTED FUEL TANKS

FCUL1 — 12 HR

FCUL2 — 24 HR

### CLOSED TOP DIKED SKID BASE FUEL TANK

The generator set skid base contains an integral, UL listed, steel fuel storage tank with diked rupture basin for the containment of fuel resulting from a tank leak or rupture. In addition to containment of fuel, the rupture basin will also contain the loss of engine lube oil and coolant fluids. The rupture basin is integrally vented and has a closed top to prevent the ingress of precipitation, debris or other elements. The tank is leak tested to 3 psi and pressure tested to 15 psi. The base tank is UL142 listed for Steel Above Ground Tanks for Flammable and Combustible Liquids under the "Special Purpose Tanks" category. They are intended for installation in accordance with the Flammable and Combustible Liquids Code, NFPA 30 of the National Fire Protection Association.



## FEATURES

### CONSTRUCTION

- Manufactured entirely from 4 mm (8 gauge) steel
- Continuously welded seams
- Formed steel channel type side beams
- Unitized load bearing structure
- Integral lifting points
- Corrosion resistant precoat
- Listed to UL142
- Closed top diked base tank

### AESTHETICS

- Continuous high gloss finish
- Polyester powder composite
- Extremely durable and corrosion resistant

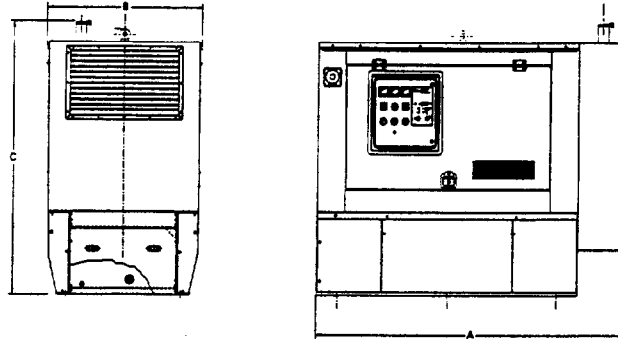
### DESIGN FEATURES

- Unique integral base and tank design
- Developed specifically for open or enclosed generator sets
- Containment capacity for fuel, lube and coolant fluids
- Internal baffles arranged to prevent recirculation of heated return fuel
- Brass composite 2" filler cap
- Mechanical fuel gauge
- Fuel capacities to provide typically 12 and 24 hour standby operation
- Primary vent with breather

- Vent located accessible for adapting to remote venting
- Venting areas to UL142 specifications
- Leak detection switch
- Emergency vent for main tank
- Weatherproof diked containment basin
- External NPT drain fittings for fuel tank and containment basin
- Removable base-end cover plate encloses stub-up area when used with enclosures



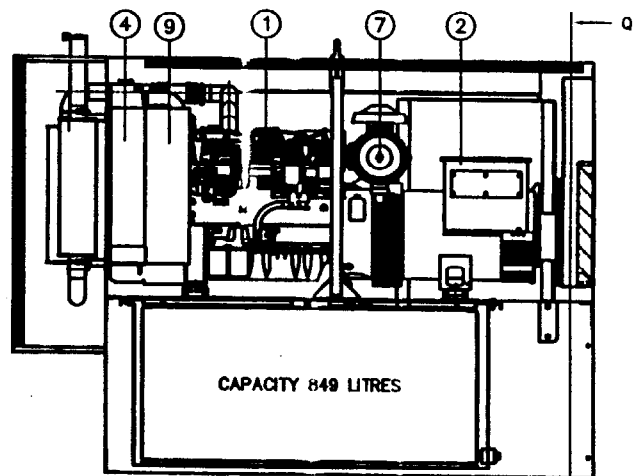
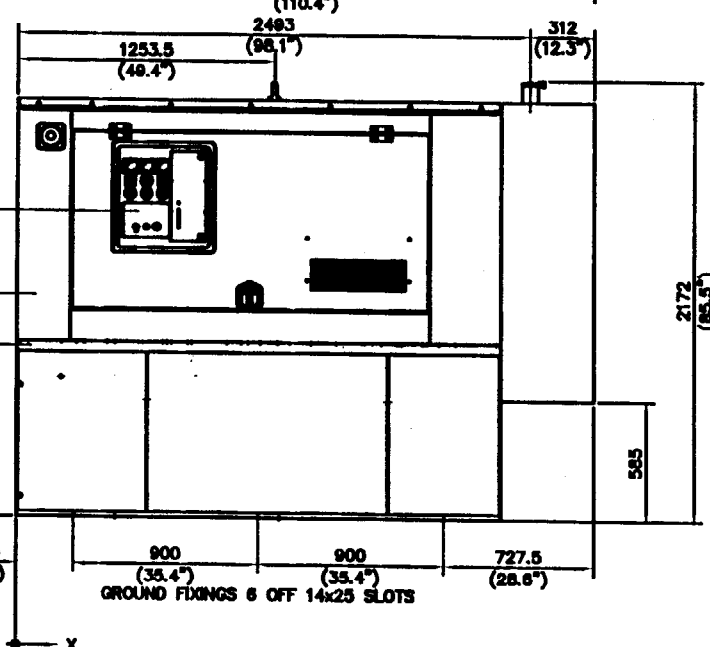
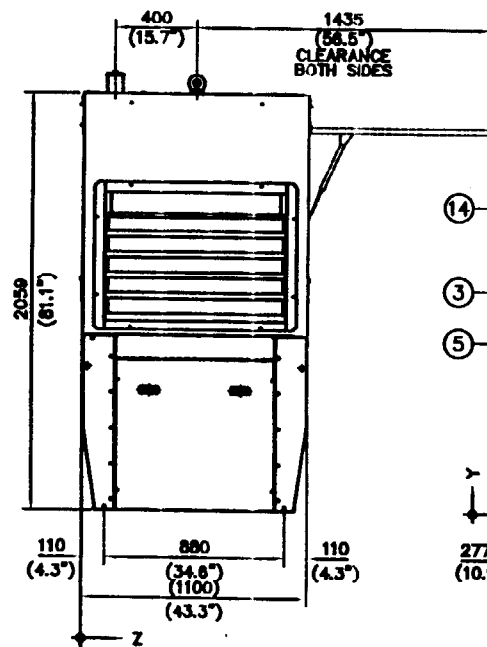
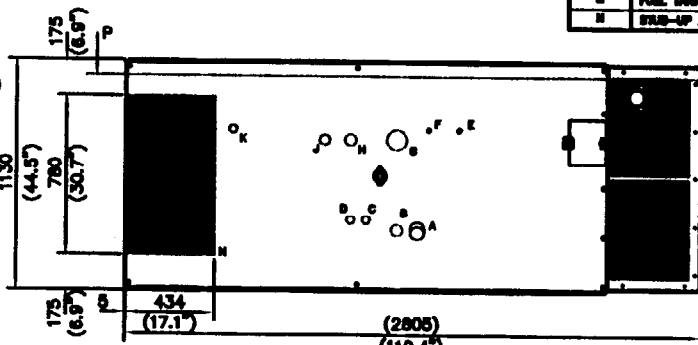
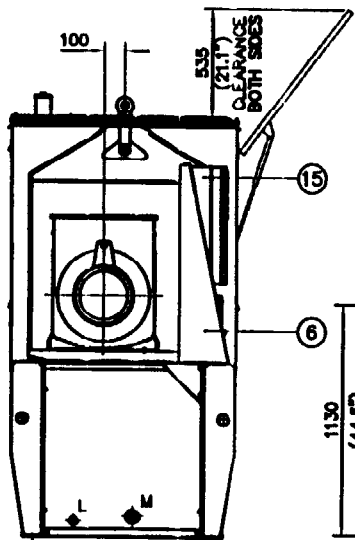
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## SOUND ATTENUATED ENCLOSED GENERATOR SETS WITH CAE ENCLOSURE DIMENSIONS AND WEIGHTS WITH UL LISTED FUEL TANK

Generator Set Model	Tank Capacity, liters (US gallons)		Generator Dimensions, mm (in)				Weight kg (lb)	
			Length A	Width B	Height, 12 hr	Height, 24 hr		
	12 hr	24 hr			C	C	12 hr	24 hr
D20P1, D25P1, D20P2, D25P2, D30P4	NA	224 (59.2)	2090 (82.3)	980 (38.6)	NA	1710 (67.3)	NA	777 (1712.5)
D30P3	NA	425 (112.3)	2252 (89.3)	1130 (44.5)	NA	1960 (77.2)	NA	1461 (3220)
D40P3, D40P2	NA	425 (112.3)	2258 (89.3)	1130 (44.5)	NA	1893 (74.5)	NA	1657 (3652)
D50P3, D60P3, D50P2, D60P2	NA	425 (112.3)	2258 (89.3)	1130 (44.5)	NA	1940 (76.4)	NA	1725 (3802)
D75P3, D75P2	NA	425 (112.3)	2258 (89.3)	1130 (44.5)	NA	1940 (76.4)	NA	1761 (3881)
D90P1, D100P1, D100P2	273 (72.1)	849 (224.3)	2805 (110.4)	1130 (44.5)	1732 (68.2)	2172 (85.5)	1305 (2878)	1762 (3883)
D20P1S, D25P1S, D20P2S, D25P2S	NA	224 (59.2)	2090 (82.3)	980 (38.6)	NA	1710 (67.3)	NA	807 (1778)
D30P3S, D40P3S, D30P2S, D40P2S	NA	425 (112.3)	2258 (89.3)	1130 (44.5)	NA	1893 (74.5)	NA	1721 (3793)
D50P3S, D60P3S, D50P2S, D60P2S	NA	425 (112.3)	2258 (89.3)	1130 (44.5)	NA	1940 (76.4)	NA	1762 (3883)
D75P1S, D90P1S, D75P2S, D90P2S	273 (72.1)	849 (224.3)	2805 (110.4)	1130 (44.5)	1732 (68.2)	2172 (85.5)	2119 (4670)	2519 (5552)
D100P1S, D100P2S	NA	NA	NA	NA	NA	NA	NA	NA

Weight with lube oil and coolant



CAPACITY 849 LITRES

SECTION P-P

NOTE: DIMENSIONS STATED IN BOTH MILLIMETRES AND INCHES

ENG/ALT COMBINATION	ENG PART No.	ALT PART No.	WEIGHT (Kg)		CENTR. OF GRAVITY	
			WTH OIL	WTH OIL & WATER	CGG X	CGG Y
100TR0A / LL304B	100-007	110-000	2300	2304	1390 (54.7)	1230 (48.4)
100TR0A / LL304B	100-008	110-000	2300	2304	1390 (54.7)	1230 (48.4)
100L07 / LL304B	100-000	110-000	2300	2304	1390 (54.7)	1230 (48.4)
100TR0A / LL304B	100-007	110-000	2400	2400	1390 (54.7)	1230 (48.4)
100TR0A / LL304B	100-008	110-000	2400	2400	1390 (54.7)	1230 (48.4)
100L07 / LL304B	100-000	110-000	2400	2400	1390 (54.7)	1230 (48.4)

SOCKET	DESCRIPTION	DM X	DM Y	L	J
A	MANUAL FUEL FILL - 2" BSP SOCKET	1427 (56.2)	630 (24.7)	270 (10.6)	
B	FUEL LEVEL GAUGE - 1 1/2" BSP HALF SOCKET	1267 (50.1)	630 (24.7)	270 (10.6)	
G	FUEL LEVEL SWITCH - 1" BSP HALF SOCKET	1177 (46.3)	630 (24.7)	270 (10.6)	
D	REMOVE FUEL SUPPLY - 1" BSP SOCKET	1108 (43.4)	630 (24.7)	300 (11.8)	
E	FUEL RETURN - 3/8" BSP SOCKET	1638 (64.5)	630 (24.7)	200 (7.9)	
F	FUEL SUPPLY - 3/8" BSP SOCKET	1402 (55.2)	630 (24.7)	200 (7.9)	
O	FUEL TANK EMERGENCY VENT - 2" BSP SOCKET	1327 (52.4)	630 (24.7)	204 (8.0)	
H	REMOVE FUEL RETURN - 1 1/2" BSP SOCKET	1108 (43.4)	630 (24.7)	710 (28.0)	
J	FUEL TANK BREATHER - 1 1/2" BSP SOCKET	977 (38.5)	630 (24.7)	200 (7.9)	
K	LEAK DETECTION PROBE - 2" BSP HALF SOCKET	800 (31.5)	600 (23.6)	200 (7.9)	
L	REMOVE TANK BRASS - 1" BSP SOCKET	800 (31.5)	91 (3.6)	204 (8.0)	
M	FUEL TANK BRASS - 2" BSP SOCKET	801 (31.7)	117 (4.6)	200 (7.9)	
N	STUD-UP AREA (34x200)	217 (8.5)	600 (23.6)	200 (7.9)	

ITEM	QTY.	DESCRIPTION	DWG/PART NO.
1	1	ENGINE	SEE TABLE
2	1	ALTERNATOR	SEE TABLE
3	1	CANOPY GROUP	M002000
4	1	RADIATOR GROUP	M002447
5	1	TANKAGE GROUP	M002431
6	1	PANEL STAND GROUP	M002427
7a	1	AIR FILTER ASSEMBLY FOR 100TR/2	M002400
7b	1	AIR FILTER ASSEMBLY FOR 100L-07	M002472
8	1	FAN GUARD GROUP	M002470
9	1	FUEL LINE GROUP	M002462
10	1	COUPLING GROUP	M002471
11	1	ROVERS & SENSORS GROUP	M002480
12	1	DECAL GROUP (GMA)	M002466
13	1	DM UPFIT	M002444
14	1	CONTROL PANEL (IF FITTED)	-
15	1	CIRCUIT BREAKER PANEL (IF FITTED)	-
16	1	LVI-LINE OIL BRASS GROUP	M002477
17	1	WVE-COOLANT BRASS GROUP	M002478

\* ITEM NOT SHOWN

ITEM	DESCRIPTION	QTY	UNIT	DATE
F	BASEFRAME AND BRASSING NEW ISSUES			
E	SCREWS: ALL POINT HARDENED PMS 10-300 & 100-100			
D	SCREWS: 1000 & 10000 HARDENED-10			
C	WASHERS: 1000 & 10000 HARDENED			
B	WASHERS: 1000 & 10000 HARDENED			
A	WASHERS: 1000 & 10000 HARDENED			

WEIGHT & C OF G TO BE CONFIRMED FOR ALL SETS

DATE: 27/11/88

SCALE: 1:12.5

ISSUE: G

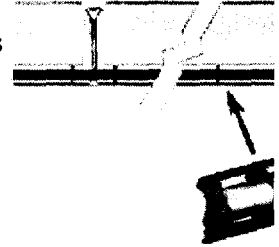
[products/\_private/components/topbar.html]  
 [products/\_private/components/sidebar.html]

# Products

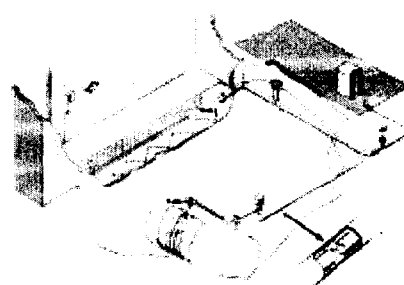
## Double containment

In locations where fuels, chemicals, or hazardous wastes are handled, federal and local agencies often require double containment and leak detection.

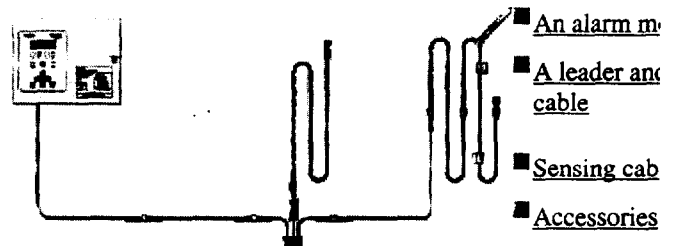
- TraceTek sensing cable monitors along the entire length of piping (for hundreds or even thousands of feet). The alarm and locating module indicates the location, which helps minimize the time and cost of responding to a leak.



- Installation of sensing cable along containment trenches enables detection of hazardous chemicals and viscous fluids.



- A single TraceTek alarm and locating module monitors multiple areas—including the main piping, piping branches, and tanks—and integrates them into one system.

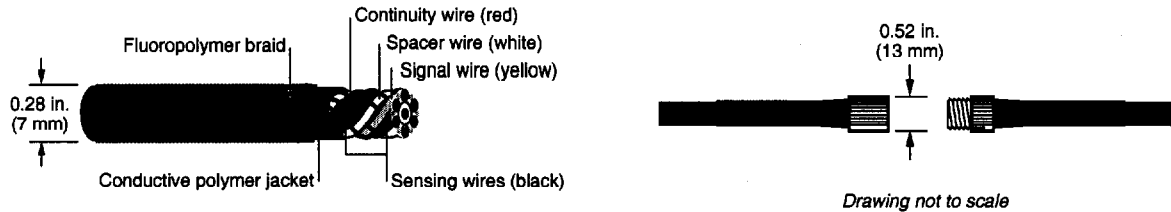


## Literature Online

- [TT3000 Conductive Liquid Sensing Cable Data Sheet H5382](#)
- [TT5000 Hydrocarbon Sensing Cable Data Sheet H54785](#)
- [TTDM Alarm and Locating Module Data Sheet H55470](#)
- [TTDM-NMM Network Master Module Data Sheet H55867](#)
- [TTDM-SIM Sensor Interface Module Data Sheet H55868](#)
- [TTG Multiple Channel Alarm Module Data Sheet H53053](#)
- [Key Parameters for Double Containment Piping Design H300](#)
- [Sample Configurations for Industrial/Environmental Applications](#)
- [Product Selection Guide for Industrial/Environmental Applications H55869](#)

[products/\_private/components/emails.html]

# TT5000 Fuel-Sensing Cable



## Product characteristics

Cable diameter	0.28 in. (7 mm) nominal
Cable diameter with connector	0.52 in. (13 mm) nominal
Cable weight (50-ft length)	2.4 lb
Operating temperature range	-20°C to 60°C (-4°F to 140°F)
Pull force limit	Not to exceed 50 lb
Bend radius	2 in. (50 mm) minimum
Pressure	Loads greater than 20 lb (9 kg) per linear inch at 20°C (68°F) may immediately trigger an alarm.
Nonresettable	Must be replaced after exposure to hydrocarbon liquids.

## Chemical resistance

Cable functions normally after exposure in accordance with ASTM D 543 at 23°C (73°F) for seven days:	Sulfuric acid (10%) Hydrochloric acid (10%) Nitric acid (10%) Sodium hydroxide (10%)
--	---

## Water resistance

Sensing cable	Less than 10- $\mu$ A leakage when immersed in salt water for 90 days.
Connector system	Less than 10- $\mu$ A leakage when immersed in water at 10 psig for 24 hours.

## Response time

Representative materials detected:	Typical response time at 20°C (68°F):
Gasoline	12 minutes
#1 diesel fuel	60 minutes
#2 diesel fuel	120 minutes
JP5 jet fuel	70 minutes
JP8 jet fuel	50 minutes
Jet-A jet fuel	50 minutes
Xylene	20 minutes

### Notes:

- Response Time Test Method: "Test Procedures for Third Party Evaluation of Leak Detection Methods; Cable Sensor Liquid Contact Leak Detection Systems."
- Response times are affected by operating temperature. Consult factory for specific response times at other temperatures and in other liquids.

## Approvals



Sensing cable may be used in Class I, Division 2, Groups A, B, C, D Hazardous Locations. If wiring from module meets requirements for intrinsic safety, sensing cable may be used in Class I, Division 1, Groups A, B, C, D Hazardous Locations (Zone 0 or Zone 1 in Europe).



The TraceTek products group is a part of Raychem Chemelex Division. Chemelex Division is ISO 9001 certified.

**Raychem Corporation**  
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*All information, including illustrations, is believed to be reliable. Users, however, should independently evaluate the suitability of each product for their application. Raychem makes no warranties as to the accuracy or completeness of the information, and disclaims any liability regarding its use. Raychem's only obligations are those in the Raychem Standard Terms and Conditions of Sale for this product, and in no case will Raychem be liable for any incidental, indirect, or consequential damages arising from the sale, resale, use, or misuse of the product. Specifications are subject to change without notice. In addition, Raychem reserves the right to make changes—without notification to Buyer—to materials or processing that do not affect compliance with any applicable specification.*

## TT5000

### TraceTek Fuel-Sensing Cable

TraceTek TT5000 sensing cable detects the presence of liquid hydrocarbon fuels at any point along its length, yet does not react to the presence of water. Installed with a TraceTek alarm and locating module, the cable senses the liquid, triggers an alarm, and pinpoints the location of the leak.

#### Distributed sensing

TT5000 sensing cable provides distributed leak detection and location for a wide range of applications. The cable is available in a variety of lengths to provide as much coverage as needed.

#### Design flexibility

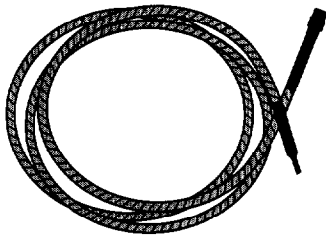
TT5000 sensing cable is available in bulk reels, with connector kits or with factory-

installed connectors that plug together. The cable is designed for a variety of double-containment applications, including tanks, trenches, and piping. (See the "TraceTek Double-Containment Design Guide" for specific design alternatives.)

#### Advanced technology

Raychem's radiation-crosslinking and conductive-polymer technologies are used to make TT5000 sensing cable mechanically strong and chemically resistant. The core of the cable is constructed of two sensing wires, an alarm signal wire, and a continuity wire. The core is encased in a conductive-polymer jacket and surrounded with a fluoropolymer braid. This rugged construction allows the cable to perform reliably in the most demanding environments.

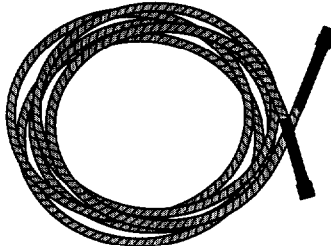
#### Ordering information



#### TT5000 zone sensing cable with factory-installed connector and end termination

**Catalog number**  
TT5000-Zone-MC

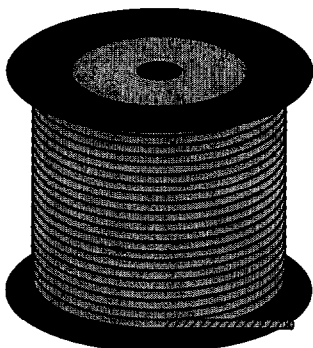
**Description**  
5-ft (1.5 m) sensing cable with heat-shrink end termination.



#### TT5000 modular sensing cables with factory-installed connectors

**Catalog number**  
TT5000-0.3M/1FT-MC  
TT5000-1.5M/5FT-MC  
TT5000-3M/10FT-MC  
TT5000-4.5M/15FT-MC  
TT5000-7.5M/25FT-MC  
TT5000-15M/50FT-MC  
TT5000-30M/100FT-MC

**Description**  
1-ft (0.3 m) sensing cable  
5-ft (1.5 m) sensing cable  
10-ft (3 m) sensing cable  
15-ft (4.5 m) sensing cable  
25-ft (7.5 m) sensing cable  
50-ft (15 m) sensing cable  
100-ft (30 m) sensing cable



#### TT5000 bulk sensing cable (connector kits required) for installation in double-containment piping

**Catalog number**  
TT5000-SC

**Description**  
Bulk sensing cable on reel  
Minimum length: 100 ft (30 m)  
Maximum length: 800 ft (240 m)

**Connector kits (not shown):**  
TT5000-CK-MC-M/F

TT5000-CK-MC-M  
TT5000-CK-MC-F

Components for five mated pairs of connectors (includes test tools)  
One pin-type connector  
One socket-type connector

# Sample configurations and bills of materials

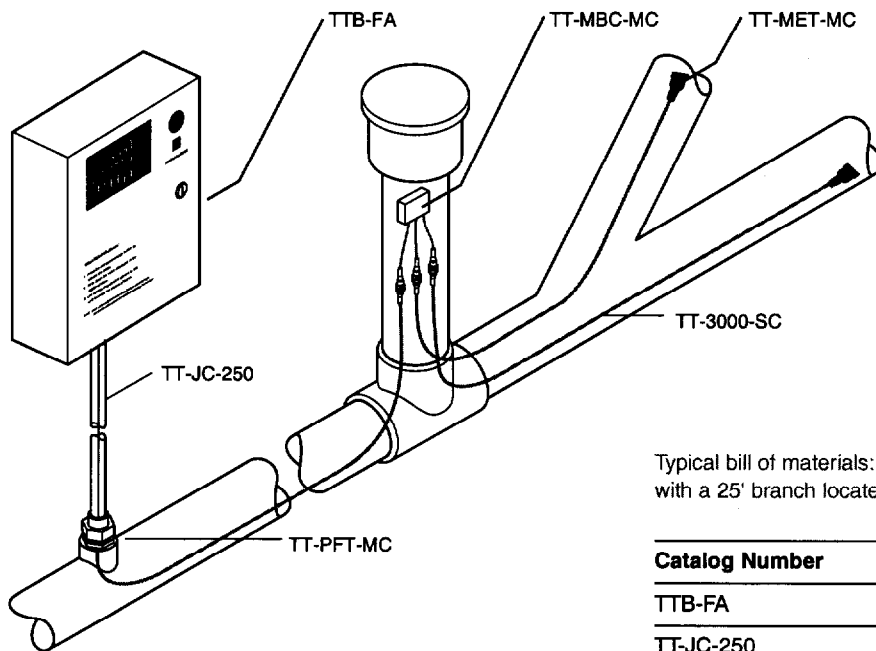
## Directions for using this section

This section provides a sample configuration and bill of materials for each of the four types of TraceTek leak detection systems outlined in Section 3.

Find the drawing for the type of system you selected in Section 3. With the drawing you will find a sample bill of materials listing the products necessary for that system and its installation.

Use the sample bill of materials as a guide. You will have to adjust the lengths, quantities, number, and type of fittings to meet your application's specific needs.

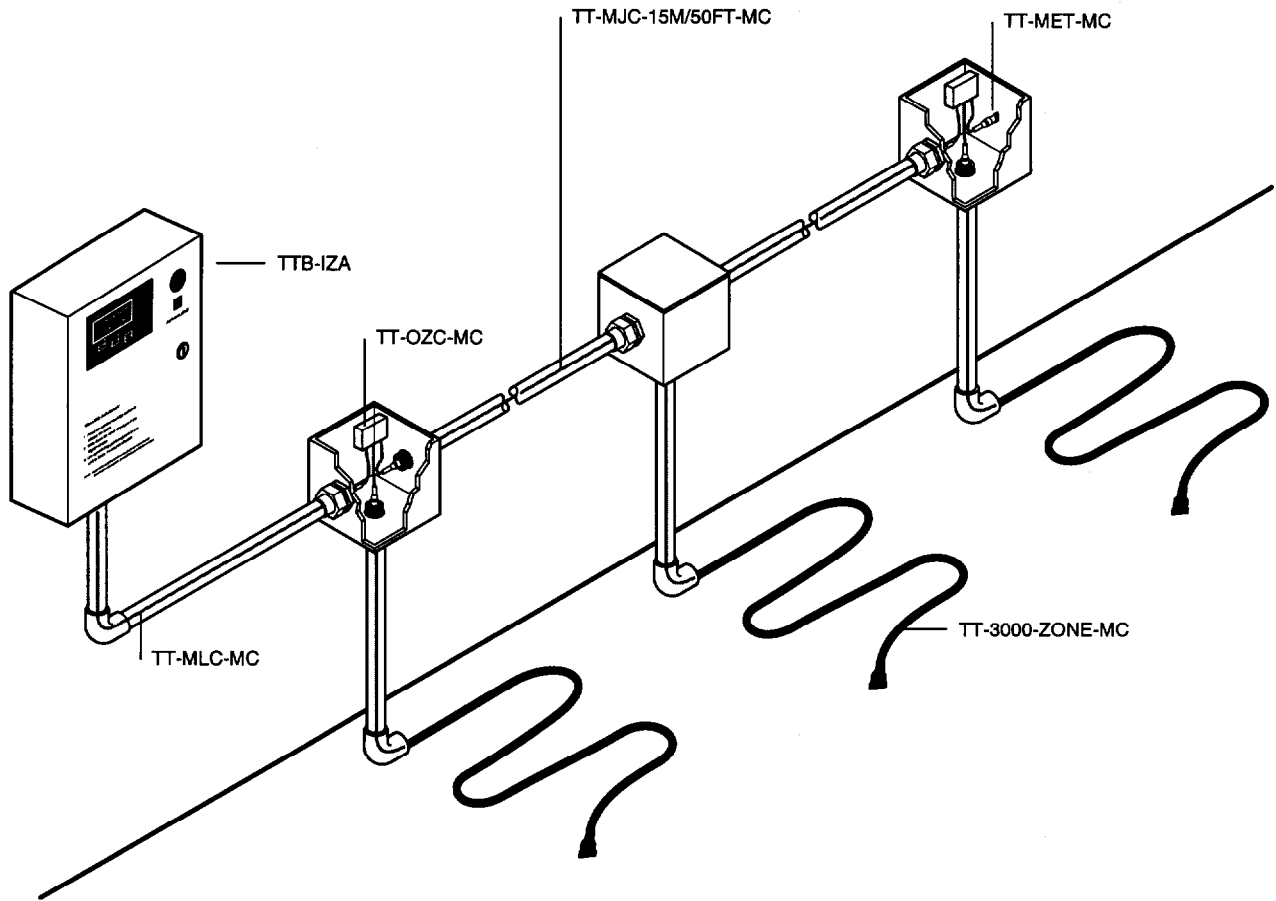
## Locating system



Typical bill of materials: Wastewater drain system (1200' main line with a 25' branch located 200 feet from the alarm module)

Catalog Number	Description	Qty
TTB-FA	Locating alarm module	1
TT-JC-250	Jumper cable—bulk	1
TT-JC-CK-MC-F	Metal connector kit	1
TT-PFT-3/4-MC	Pressure feedthrough fitting	1
TT3000-SC	TT3000 cable	1250'
TT-MBC-MC	Modular branch connector	1
TT3000-CK-MC-M/F	Metal connector kit	1
TT-CT-SCT-3000	Crimp tool	1
TT-MET-MC	Modular end termination	2
TT-Kellem Grip	Kellem Grip	1
TT-PR	Pull rope, 500-ft. reel	3
TT-PTB	Portable test box	1
TT-Ultratorch	Ultratorch 200	1

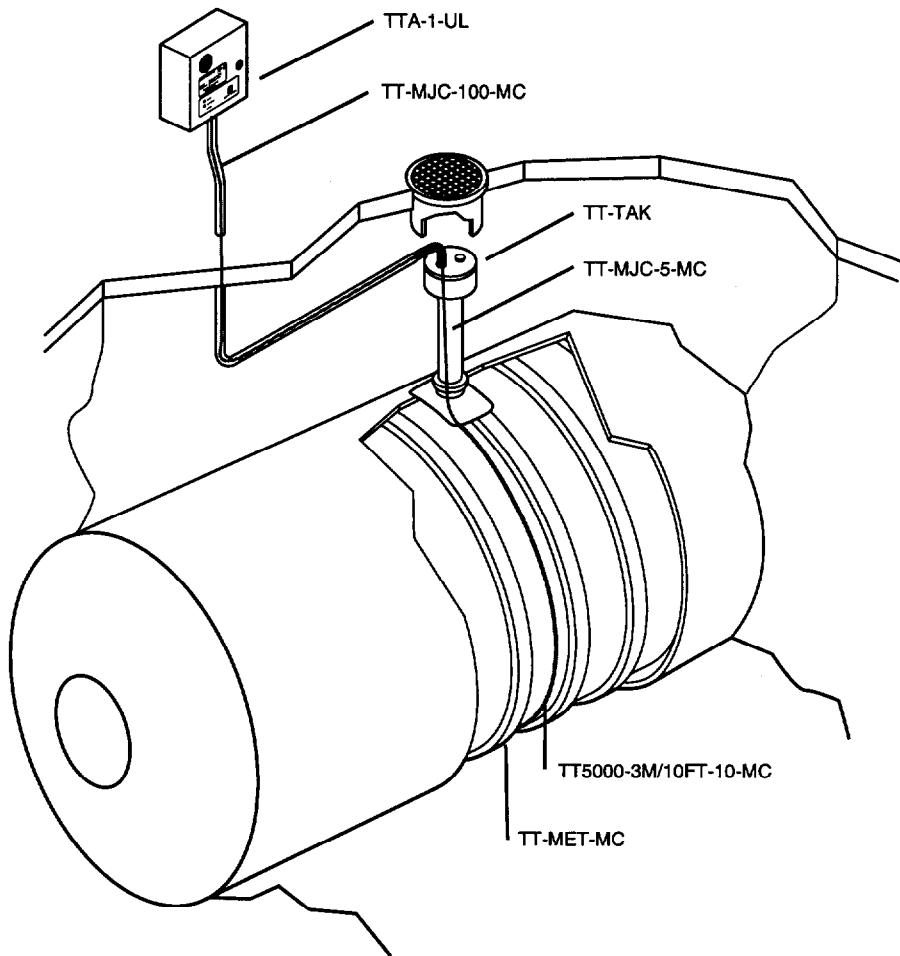
**Zone system**



Typical bill of materials: Three-zone sump (monitoring watery waste sumps on 50-foot centers with the panel located 10 feet from the first junction box)

Catalog number	Description	Qty
TTB-IZA	Zone alarm module	1
TT-MLC-MC	Modular leader cable	1
TT-OZC-MC	Zone connector	3
TT3000-ZONE-MC	Zone sensing cable	3
TT-MJC-15M/50FT-MC	Modular jumper cable	2
TT-MET-MC	Modular end termination	1

**Nonlocating single-channel system**

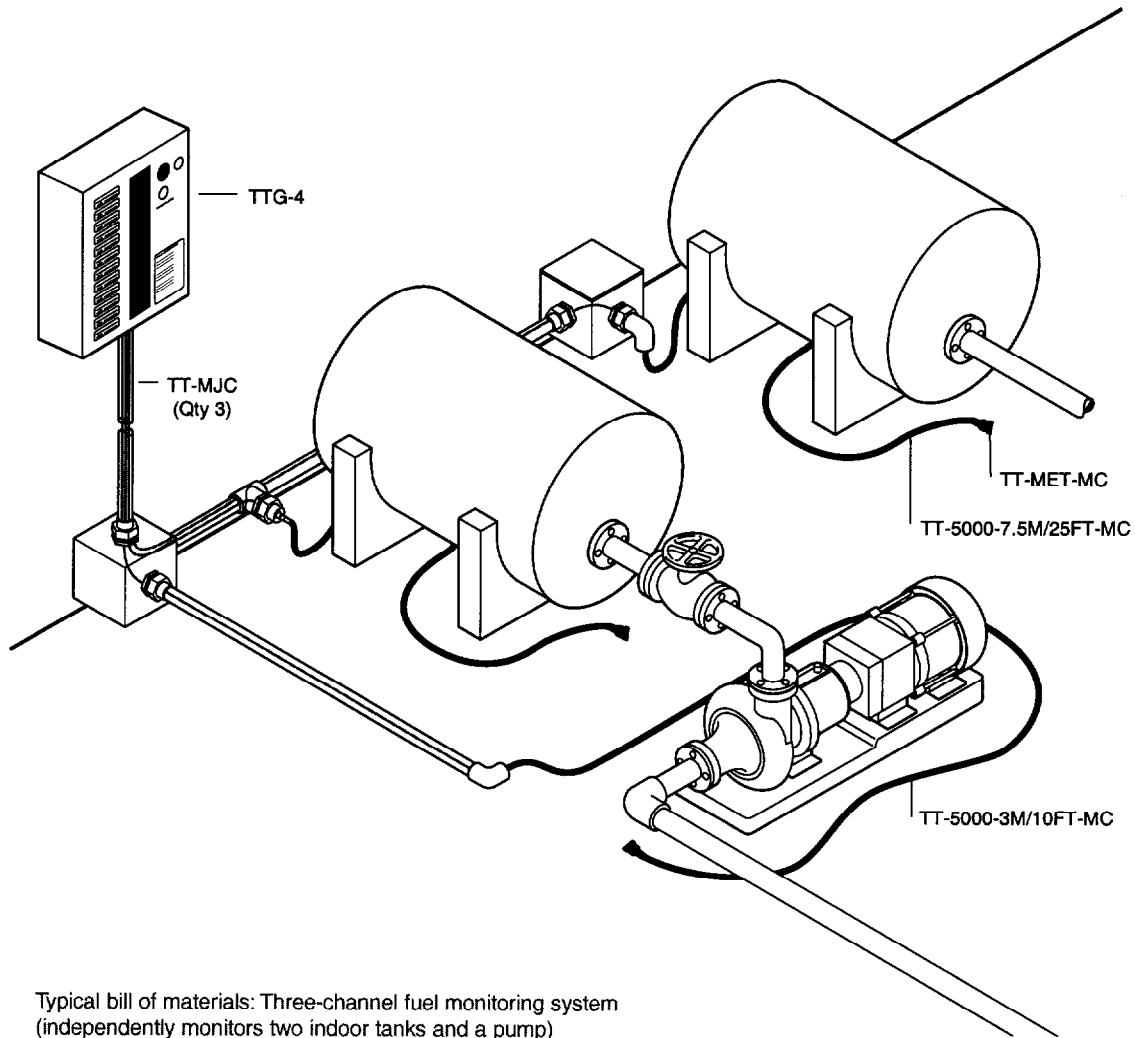


Typical bill of materials: Single-channel underground fuel tank sensor located 100 feet from the alarm module

Catalog number	Description	Qty
TTA-1-UL	Alarm module	1
TT-MJC-100-MC	Modular jumper cable	1
TT-TAK	Tank access kit	1
TT-MJC-5-MC	Modular jumper cable	1
TT5000-3M/10FT-10-MC	Modular sensing cable	1
TT-MET-MC	Modular end termination	1



**Nonlocating multiple-channel system**



Typical bill of materials: Three-channel fuel monitoring system  
(independently monitors two indoor tanks and a pump)

Catalog number	Description	Qty
TTG-4	Alarm module	1
TT5000-MSC-10-MC	Modular sensing cable	1
TT5000-MSC-25-MC	Modular sensing cable	2
TT-MJC-30M/100FT-MC	Modular jumper cable	3
TT-MET-MC	Modular end termination	3
TT-HDC-1/2-NA-50	Hold-down clips (not shown)	1

ManHill's Point Peninsula  
SITE COVERAGE

To: NIB } F.V.I. ⑤  
 From: CO }

TJD&A  
 9.7.93

	1933	1993	2000±
Total Site Average	571,200 (13.1 ac)	571,200 (13.1 ac)	571,200 (13.1 ac)
Buildings	31,050	40,900	40,900
Pavement	<u>21,800</u>	<u>119,800</u>	<u>143,320</u>
Green Space	477,749 (10.96 ac)	410,500 (9.4 ac)	386,980 (8.9 ac)
7% Impervious Cov.	<u>16.3%</u> (2.14 ac)	<u>28.1%</u> (3.7 ac)	<u>32.2%</u> (4.2 ac)

50(11)

# BERNSTEIN, SHUR, SAWYER AND NELSON

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Patrick J. Scully

May 25, 1994

Mr. Earle G. Shettleworth  
Director  
Maine Historic Preservation Commission  
55 Capitol Street  
Station 65  
Augusta, Maine 04333-0065

**Re: Purchase and Sale by City of Portland to Penobscot Bay  
Medical Associates of Portion of Former Marine Hospital  
Facility at Martin's Point, Portland, Maine**

Dear Earle:

This letter is to serve as the request of our client, Penobscot Bay Medical Associates ("PBMA"), for review and approval of the acquisition and development described below by the Maine Historic Preservation Officer, pursuant to Section 106 of the National Historic Preservation Act of 1966, as amended.

The United States Department of Education has consented to the purchase (or abrogation) by the City of Portland (the "City") of the United States' interest in the land and buildings located at the former Marine Hospital facility at Martin's Point in Portland (the "Premises").

Although the City has held title to the property since 1976, the Department of Education has continued to hold certain rights in the property, including the right to enforce certain preservation covenants at the property. (A copy of the United States' deed to the City is attached.) Those preservation covenants will remain permanently with the property and will continue to be enforceable by the United States, as well as by the City.

Mr. Earle G. Shettleworth  
May 25, 1994  
Page -2-

We believe that activities at the site are subject to Section 106 review because (i) the former Marine Hospital building at the Premises is on the National Register of Historic Places and (ii) the deed contains historic preservation covenants enforceable by the United States of America. The sale of the United States' interest may also trigger review.

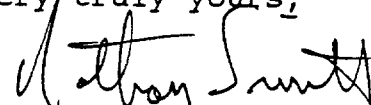
Following the abrogation of the United States' interest, the City intends to sell a portion of the Premises to PBMA, which does business at the Veranda Street location as Martin's Point Health Care Center. The approximately 1.66-acre area to be sold (the "PBMA Parcel") will be developed by PBMA (i) in part, as a parking lot for 50 cars, and (ii) in part, as a park, providing public access from Veranda Street via a walkway, overlooks, and seating areas to this scenic, wooded area along Casco Bay. In addition, through easements to be granted both to the City by PBMA and by the City to PBMA, PBMA will establish and maintain a walkway across (i) adjacent land presently owned by PBMA to the east of the PBMA Parcel and (ii) a portion of the Premises currently used by the School Department to the north of the PBMA parcel, upon which the former Marine Hospital building is located.

The following exhibits have been attached to this letter for your review and consideration:

1. A copy of the 1976 deed of the United States of America to the City of Portland.
2. The proposed site plan that has been submitted to the Portland Planning Board for review and approval (the "Site Plan Application").
3. A copy of the Site Plan Application.
4. Aerial photography of the Premises, showing the Premises as it presently exists, with a color rendition overlay of the parking lot additions proposed in the Site Plan Application.

If you have any questions or comments regarding PBMA's request for Section 106 review of the proposed acquisition, sale, and development, please do not hesitate to call me.

Very truly yours,



Nathan H. Smith

Enclosures

cc: Carol Brewer, PBMA  
Eliza M. Cope, Esq.



Returned to Council  
City Hall, Portland, Maine  
334 DEED 1963

KNOW ALL MEN BY THESE PRESENTS: That the UNITED STATES OF AMERICA acting by and through the Secretary of Health, Education, and Welfare by the Regional Director of the Department of Health, Education, and Welfare, Region I, under and pursuant to the powers and authorities contained in the Federal Property and Administrative Services Act of 1949 (63 Stat. 377), as amended, the Civil Rights Act of 1964, and the regulations promulgated thereunder, and the Department of Health, Education and Welfare Statement of Organization and Delegation of Authority, for and in consideration of the observance and performance by The City of Portland, a body politic and corporate located in the County of Cumberland, State of Maine, of the covenants, conditions, reservations, and restrictions hereinafter contained and for other valuable consideration grants to the said Grantee, its successors and assigns, subject to the covenants, conditions, reservations, and restrictions hereinafter set forth a certain parcel of real estate, said parcel being a portion of the former Marine Corps Reserve Training Center, Portland, County of Cumberland, State of Maine, more fully described as follows:

3892  
334

- Beginning at a point on the southeasterly sideline of Veranda Street, said point being distant 313.30 feet northeasterly along said southeasterly sideline of Veranda Street on a course of N 61°45' E From a granite three foot offset monument located on the split of the last angle in Veranda Street as shown on a plan numbered 548/21 on file in the Office of the Director of Public Works, City Hall, Portland, Maine;
- thence south 59°15' east, a distance of sixty (60.00) feet to a point;
- thence north 79°55' east, a distance of one hundred and fifty (150.00) feet to a point;
- thence south 50°55' east, a distance of two hundred forty-five (245.00) feet to a point;
- thence south 12°55' east to the low water mark of Casco Bay;
- thence easterly and northerly along said low water mark of Casco Bay to a point and an intersection with the most southerly point of Parcel No. 2 as shown on the aforementioned plan on file in the Office of the Director of Public Works, City Hall, Portland, Maine;
- thence north 13°57' west along said Parcel No. 2 to a point;
- thence north 00°55' west along said Parcel No. 2, a distance of one hundred seventy-seven and two one-hundredths (177.02) feet to a point;
- thence south 87°35' west along said Parcel, a distance of fifty eight and sixty-two one-hundredths (58.62) feet to a point;
- thence north 01°25' west along said Parcel No. 2, a distance of thirty three and eighty-four (33.84) feet to a point;
- thence south 89°20' west along said Parcel No. 2, a distance of one hundred eighty-five and twenty-three one-hundredths (185.23) feet to a point;
- thence north 24°17' west along said Parcel No. 2, a distance of eight and twelve one-hundredths (8.12) feet to a point and an

335

intersection with the southeasterly sideline of the land of the State of Maine. Said southeasterly sideline of the land of the State of Maine being the southeasterly sideline of the old Veranda Street before its relocation on December 31, 1896;

thence south 65°43' west along the said southeasterly sideline of the land of the State of Maine, a distance of two hundred ninety-two and fifty-six one-hundredths (292.56) feet to a point;

thence south 61°45' west along the said southeasterly sideline of the land of the State of Maine and along the southeasterly sideline of Veranda Street as it now exists, a distance of three hundred thirty-eight and sixty-one one-hundredths (338.61) feet to the point of beginning.

Subject to an easement granted by the United States of America to the Portland Water District by deed dated September 20, 1955.

Said property conveyed hereby was declared surplus and was assigned to the Department of Health, Education, and Welfare for disposal for educational purposes pursuant to the provisions of the aforementioned Federal Property and Administrative Services Act of 1949 and of applicable rules, regulations and orders.

This Deed is executed and delivered to the Grantee, its successors and assigns, without covenants or warranties by or on behalf of the UNITED STATES OF AMERICA whatsoever, either express or implied.

AND this Deed is made and accepted upon each of the following conditions subsequent which shall be binding upon and enforceable against the Grantee, its successors and assigns, each of them as follows:

1. That for a period of thirty (30) years from the date of this Deed the above described property herein conveyed shall be utilized continuously in the manner and for the educational purposes set forth in the approved program and plan contained in the application of the Grantee, and any amendments thereto and for no other purpose.

2. That during the aforesaid period of thirty (30) years the Grantee will resell, lease, mortgage or encumber or otherwise dispose of the above described property, or any part thereof or interest therein only as the Department of Health, Education, and Welfare, or its successor in function, in accordance with its existing regulations, may authorize in writing.

3. That one year from the date of this Deed and annually thereafter for the aforesaid period of thirty (30) years unless the Department of Health, Education, and Welfare, or its successor in function, otherwise directs, will file with the Department of Health, Education, and Welfare, or its successor in function, reports on the operation and maintenance of the above described property and will furnish as requested such other pertinent data evidencing such

continuous use of the property herein conveyed for the purpose specified in the above identified application.

4. That for the period during which the above described property is used for a purpose for which the Federal financial assistance is extended by the Department or for another purpose involving the provision of similar services or benefits, the Grantee hereby agrees that it will comply with Title VI of the Civil Rights Act of 1964 (P.L. 88-352) and all requirements imposed by or pursuant to the Regulation of the Department of Health, Education, and Welfare (45 C.F.R. Part 80) issued pursuant to that title and as in effect on the date of this Deed, to the end that, in accordance with Title VI of that Act and the regulation, no person in the United States shall, on the ground of race, color or national origin, be excluded from participation in, be denied the benefits of, or otherwise subjected to discrimination under the program and plan referred to in condition 1 above or under any other program or activity of the Grantee, its successors or assigns, to which such Act and Regulation apply by reason of this conveyance.

In the event of breach of any of the conditions set forth above, whether caused by the legal or other inability of the Grantee, its successors or assigns, to perform any of the obligations herein set forth, all right, title and interest in and to the above described property shall, at the option of the United States of America revert to and become the property of the UNITED STATES OF AMERICA, which shall have an immediate right of entry thereon, and the Grantee, its successors and assigns, shall forfeit all right, title and interest in and to the above described property and in any and all tenements, hereditaments, and appurtenances thereunto belonging; PROVIDED, HOWEVER, that the failure of the Department of Health, Education, and Welfare, or its successor in function, to insist in any one or more instances upon complete performance of any of said conditions shall not be construed as a waiver or a relinquishment of the future performance of any such conditions, but the obligations of the Grantee with respect to such future performance shall continue in full force and effect; PROVIDED FURTHER, that in the event the UNITED STATES OF AMERICA fails to exercise its option to reenter the premises for any such breach of conditions subsequent numbered 1, 2, and 3, herein within 31 years from the date of this conveyance, conditions numbered 1, 2, and 3 herein, together with all rights of the United States of America to reenter in this paragraph provided with respect to conditions

numbered 1, 2, and 3 herein, shall, as of that date, terminate and be extinguished; PROVIDED FURTHER, that the expiration of conditions 1, 2, and 3, and the right to reenter shall not affect the obligation of the Grantee, its successor and assigns with respect to condition numbered 4 herein or the right reserved to the United States of America to reenter for breach of said condition.

In the event title to the above described premises is reverted to the UNITED STATES OF AMERICA for noncompliance or voluntarily reconveyed in lieu of reverter, the Grantee, its successors and assigns, at the option of the Department of Health, Education, and Welfare, or its successor in function, shall be responsible and shall be required to reimburse the UNITED STATES OF AMERICA for the decreased value of the above described property not due to reasonable wear and tear, acts of God and alterations and conversions made by the Grantee to adapt the property to the educational use for which the property was acquired. The UNITED STATES OF AMERICA shall, in addition thereto, be reimbursed for such damages including such costs as may be incurred in recovering title to or possession of the above described property, as it may sustain as a result of the noncompliance. The Grantee, by the acceptance of this Deed, covenants and agrees for itself, and its successors and assigns that in the event the UNITED STATES OF AMERICA exercises its option to revert all right, title and interest in the property to it, then the Grantee shall provide protection and maintenance of said property at all times until such time as the title is actually reverted to the United States of America, including the period of any notice of intent to revert. Such protection and maintenance shall, at a minimum conform to the standards prescribed by General Services Administration in its regulations FPMR 10147.4913 (41 C.F.R. Part 101) in effect as of the date of this deed, a copy of which is attached to the Grantee's application previously incorporated herein.

The Grantee may secure abrogation of the conditions subsequent numbered 1, 2, and 3 herein by:

a. Obtaining the consent of the Department of Health, Education, and Welfare, or its successor in function; and

b. Payment to the United States of America in accordance with the following conditions:

- (1) If abrogation is requested by the Grantee for the purpose of making the property or a portion thereof available to serve the needs or purposes of a third party, payment shall



be based upon the current fair market value, as of the date of any such requested abrogation, of the property to be released from the conditions and restrictions, less amortized credit at the rate of 3-1/3% of the public benefit allowance granted on the original sale price for each twelve (12) months during which the property has been utilized in accordance with the purposes specified in the above identified application.

- (24) If abrogation is requested by the Grantee for the purpose of making the property available as security for financing of new construction, for acquiring substitute or better facilities, or for relocating elsewhere, all for the purpose of further advancing or promoting the program specified in the above identified application, payment shall be based upon the public benefit allowance granted to the Grantee, of 100% from the sale price of three hundred forty two thousand two hundred fifty (342,250) dollars as of the date of this instrument, less a credit at the rate of 3-1/3% of the public benefit allowance granted for each twelve (12) months during which the property has been utilized in accordance with the purpose specified in the above identified application; provided, however, the Grantee shall execute such agreement, supported by surety bond or other security that may be deemed by the Department to be necessary or advisable, to assure that the proceeds of sale obtained by the Grantee in any disposal of any portion of the property for effectuating one or another of the aforesaid purpose for which abrogation is requested, will be devoted to the program use specified in the above identified application.

The Grantee, by acceptance of this Deed covenants and agrees for itself, its successors and assigns, and every successor in interest to the property herein conveyed or any part thereof—which covenant shall attach to and run with the land for so long as the property herein conveyed is used for a

purpose for which the Federal financial assistance is extended by the Department or for another purpose involving the provisions of similar services or benefits and which covenant shall in any event, and without regard to technical classification or designation, legal or otherwise, be binding to the fullest extent permitted by law and equity, for the benefit and in favor of and enforceable by the UNITED STATES OF AMERICA and its successors against the Grantee, its successors and assigns, and every successor in interest to the property, or any part thereof—that it will comply with Title VI of the Civil Rights Act of 1964 (P.L. 88-152) and all requirements imposed by or pursuant to the Regulation of the Department of Health, Education, and Welfare (45 C.F.R. Part 80) issued pursuant to that title and as in effect on the date of this Deed, to the end that, in accordance with Title VI of the Act and the Regulation, no person in the United States shall, on the ground of race, color or national origin, be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination under the program and plan referred to in condition 1 above or under any other program or activity of the Grantee, its successors or assigns, to which such Act and Regulation apply by reason of this conveyance.

The Grantee, by the acceptance of this Deed, covenants and agrees for itself, its successors and assigns, that in the event the property hereby conveyed is sold, leased, mortgaged, encumbered, or otherwise disposed of, or is used for purposes other than those set forth in the above identified program and plan without the consent of the Department of Health, Education, and Welfare, all revenues or the reasonable value, as determined by the Department of Health, Education, and Welfare, or benefits to the Grantee deriving directly or indirectly from such sale, lease, mortgage, encumbrance, disposal, or use (or the reasonable value as determined by the Department of Health, Education, and Welfare or any other unauthorized use) shall be considered to have been received and held in trust by the Grantee for the UNITED STATES OF AMERICA and shall be subject to the direction and control of the Department of Health, Education, and Welfare.

The Grantee by acceptance of this Deed, further covenants and agrees, for itself, its successors and assigns, that if the Grantee, its successors and assigns, shall cause any of the buildings, structures, or improvements on the premises hereby conveyed to be insured against loss, damage or destruction, and any such loss, damage or destruction shall occur during

shall

the period the Grantee holds title to said property subject to said conditions 1, 2, and 3, said insurance and all moneys payable to the Grantee, its successors or assigns, thereunder shall be held in trust by the Grantee, its successors or assigns, and shall be promptly used by the Grantee for the purpose of repairing such buildings, structures or improvements and restoring the same to their former condition, or, if not so used, shall be paid over to the Treasurer of the United States in an amount not exceeding the unamortized public benefit allowance of the buildings, structures or improvements lost, damaged, or destroyed.

The Grantee by the acceptance of this Deed, further covenants and agrees for itself, its successors and assigns, that the UNITED STATES OF AMERICA shall have the right during any period of emergency declared by the President of the United States or by the Congress of the United States to the full unrestricted possession, control, and use of the property hereby conveyed, or any portion thereof, including any additions or improvements thereto made subsequent to this conveyance. Prior to the expiration or termination of the 30-year period of restricted use by the Grantee, such use by the UNITED STATES OF AMERICA may be either exclusive or nonexclusive and shall not impose any obligations upon the Government to pay rent or any other fees or charges during the period of emergency, except that the Government shall (i) bear the entire cost of maintenance of such portion of the property used by it exclusively or over which it may have exclusive possession or control, (ii) pay the fair share, commensurate with the use, of the cost of maintenance of such of the property as it may use nonexclusively or over which it may have nonexclusive possession or control (iii) pay a fair rental for the use of improvements or additions to the premises made by the Grantee without Government aid and (iv) be responsible for any damage to the property caused by its use, reasonable wear and tear and acts of God and the common enemy excepted. Subsequent to the expiration or termination of the 30-year period of restricted use, the obligations of the Government shall be as set forth in the preceding sentence and in addition, the Government shall be obligated to pay a fair rental for all or any portion of the conveyed premises which it uses.

The Grantee, by the acceptance of this deed, covenants and agrees for itself, its successors and assigns, and every successor in interest to the property herein conveyed or any part thereof, which covenant shall attach to and run with the land and which covenant shall in any event, and without regard to technical classification

or designation, legal or otherwise, be binding to the fullest extent permitted by law and equity, for the benefit and in favor of and enforceable by the GRANTEE and its successors against the GRANTEE, its successors and assigns, and every successor in interest to the property, or any part thereof:

- a) that the Marine Hospital Building located on the above described property is listed on the National Register of Historic Places because of the historical and architectural significance of its exterior.
- b) that interior renovations may be made to the Hospital Building as needed by the GRANTEE.
- c) that the historical and architectural integrity of the exterior of the Marine Hospital Building shall be preserved and maintained. To this end the GRANTEE shall not alter the exterior of the building without the approval of the Maine Historic Preservation Commission. If the Hospital Building is totally destroyed by Act of God, the GRANTEE shall not be required to replace said building. If the Hospital Building is partially destroyed by Act of God, the GRANTEE shall restore said building using materials that shall be consistent with its historical integrity in terms of appearance based on form, color, and texture.
- d) that alterations to the grounds, driveways, and parking areas on the property may be made as needed. Any other above ground new construction or exterior alterations on other portions of the property which may have a visual effect on the setting of the Marine Hospital Building shall receive prior approval from the Maine Historic Preservation Commission.
- e) that in the event the GRANTEE and the Maine Historic Preservation Commission or its successors fail to agree on any proposed action during the 30 Year period following the issuance of the deed, the GRANTEE may request permission from the Department to take the action. If the Department determines that the action would not be contrary to paragraphs a) through d) above it may grant or deny the request following compliance with Section 106 of the National Historic Preservation Act.

This instrument is intended to take effect as a sealed instrument.

IN WITNESS WHEREOF, the UNITED STATES OF AMERICA has caused these presents to be executed this 12<sup>th</sup> day of August 1976.

UNITED STATES OF AMERICA  
Acting by and through the Secretary of  
Health, Education, and Welfare

WITNESSES:

Louette Tausica  
Bruce O. Talbot

BY: Mary B. Newman  
Mary B. Newman  
Regional Director, Region I  
Department of Health, Education, and Welfare

ACKNOWLEDGEMENT

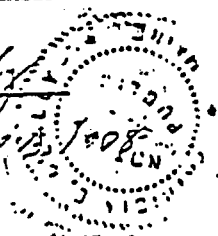
STATE OF MAINE )  
COUNTY OF CUMBERLAND )

DATE: August 12, 1976  
State of Maine

Before me a Notary Public in and for the Commonwealth of Massachusetts then and there personally appeared Mary B. Newman, duly empowered, authorized and delegated by the Secretary of Health, Education, and Welfare pursuant to a Delegation of Authority, who signed the foregoing instrument in behalf of the UNITED STATES OF AMERICA and acknowledged the same to be <sup>her</sup> free act and deed in <sup>her</sup> said capacity and the free act and deed of the UNITED STATES OF AMERICA.

Stewart B. Mally

Notary Public  
My Commission Expires April 13, 1978

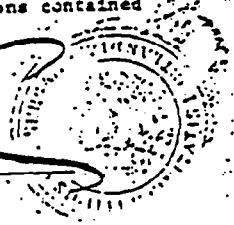


ACCEPTANCE

The City of Portland by acceptance of this Deed hereby accepts and agrees to all the terms, covenants, conditions, reservations, and restrictions contained herein.

BY: A. J. Wilson

A. J. Wilson  
City Manager  
City of Portland  
State of Maine



WITNESSES:

Louette Tausica  
Bruce O. Talbot

ACKNOWLEDGEMENT

STATE OF MAINE )

COUNTY OF CUMBERLAND )

DATE: August 12, 1976

Before me a Notary Public in and for the City of Portland, State of Maine then and there personally appeared said A. J. Wilson, City Manager, City of Portland, duly empowered and authorized, who signed the foregoing instrument on behalf of The City of Portland, and acknowledged the same to be his free act and deed in his said capacity and the free act and deed of the City of Portland.

*Robert M. ...*

Notary Public  
My Commission Expires April 15, 1978



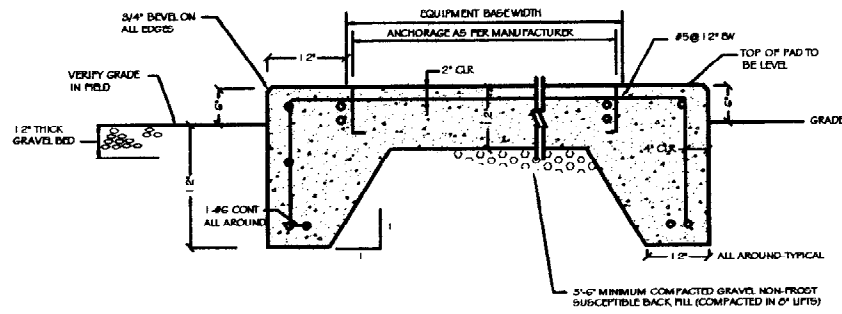
AUG 16 1976

REGISTRY OF DEEDS, CUMBERLAND COUNTY, MAINE.

Received at 10 H 15 AM, and recorded in

BOOK 3892 PAGE 934. *Margaret ...* Acting Register



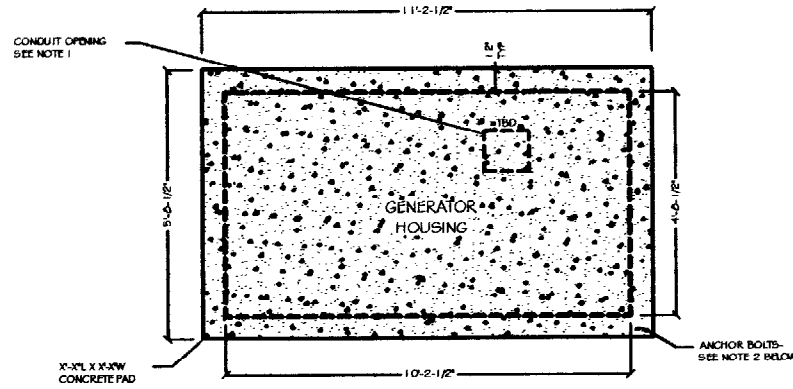


CONCRETE GENERATOR PAD SECTION

NO SCALE

GENERAL NOTES

1. ALL MATERIAL, DEMOLITION AND CONSTRUCTION SHALL COMPLY WITH THE STATE OF MAINE BUILDING CODES.
2. THE GENERAL CONTRACTOR SHALL SECURE ALL REQUIRED PERMITS PRIOR TO PROCEEDING WITH ANY WORK UNDER THIS CONTRACT.
3. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO PROCEEDING WITH ANY WORK.
4. THE GENERAL CONTRACTOR SHALL COORDINATE ALL PHASES OF WORK WITH THE CONSTRUCTION PROJECT MANAGER.
5. THE GENERAL CONTRACTOR SHALL TAKE ALL PRECAUTIONS AND PROVIDE ADEQUATE BARRICADES TO PREVENT INJURY TO PERSONS OR PROPERTY.
6. REMOVE ALL DEBRIS FROM FACILITY AND LEGALLY DEPOSE OF OFF SITE.
7. FURNISH AND INSTALL APPROXIMATELY 20 L.F. OF NEW FENCE TO MATCH EXISTING AS SHOWN.



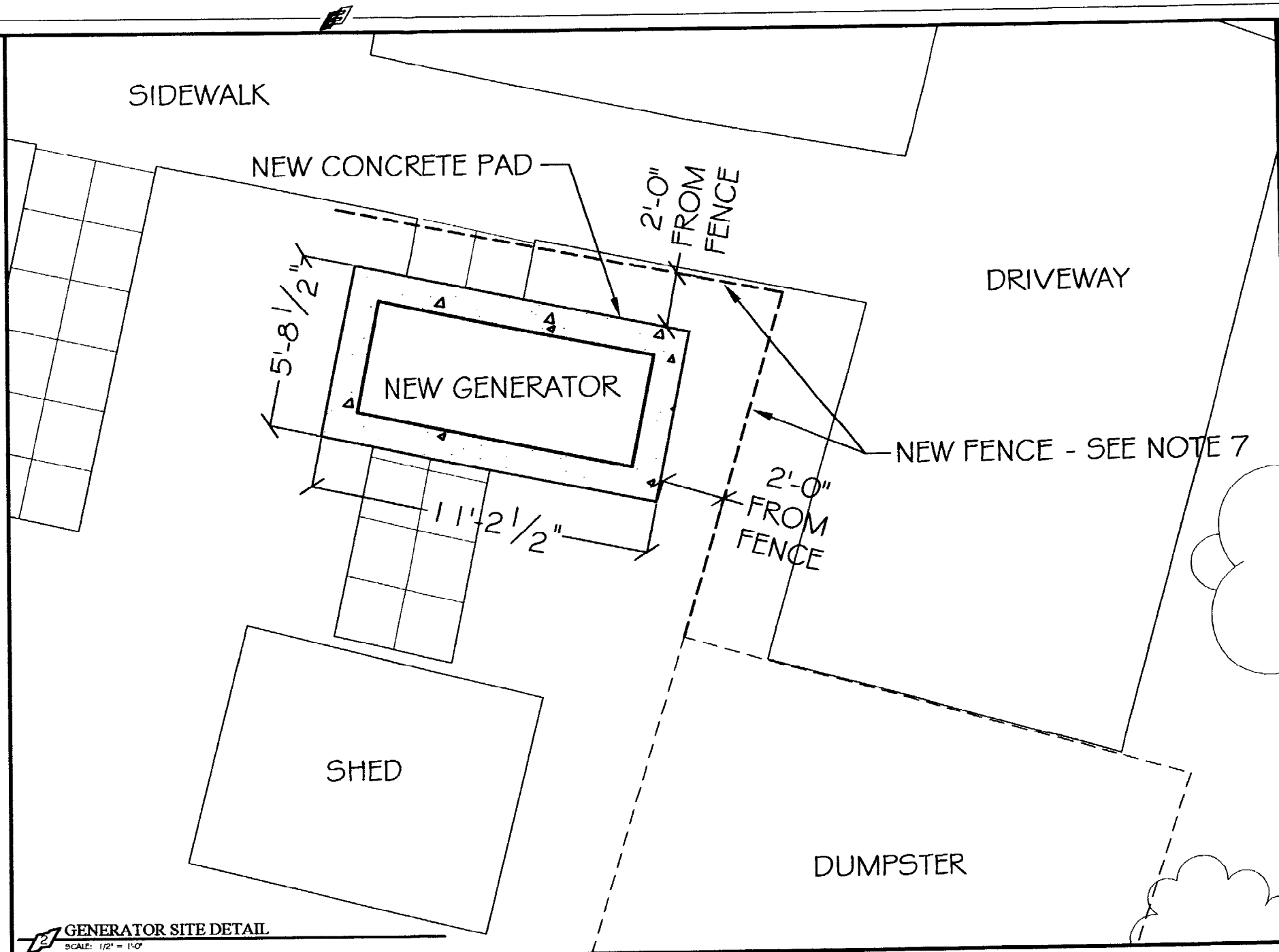
GENERATOR PAD PLAN

NO SCALE

GENERATOR PAD NOTES

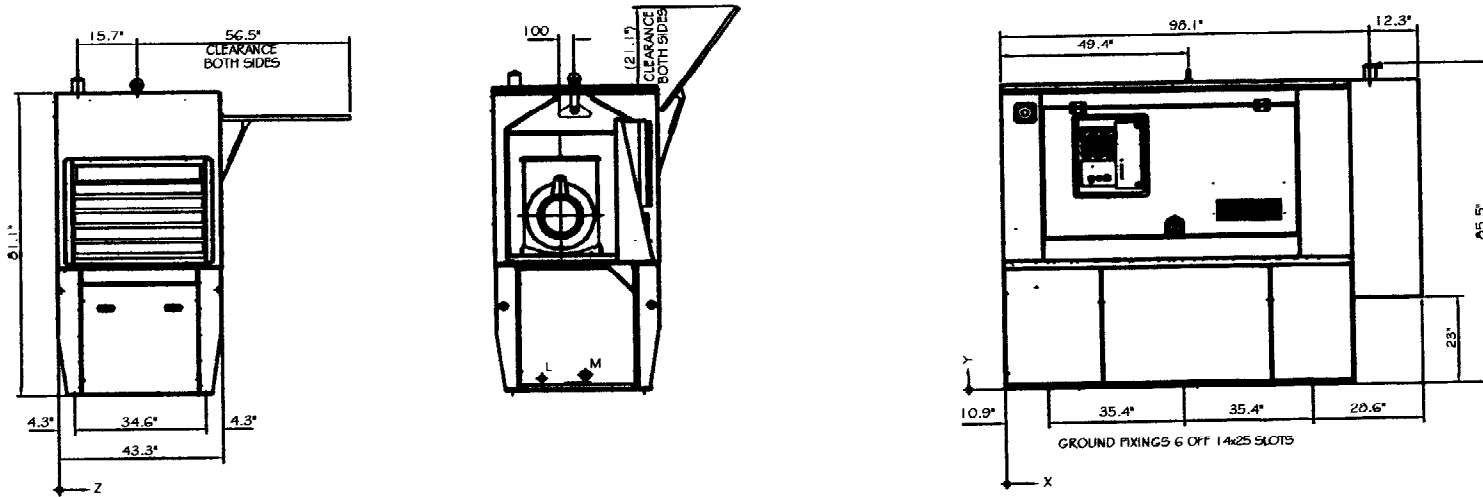
1. EXACT LOCATION AND SIZE OF CONDUIT OPENING TO BE DETERMINED DURING INSTALLATION. REFER TO EQUIPMENT MANUFACTURING SPECIFICATIONS.
2. EXACT LOCATION AND NUMBER OF ANCHOR BOLT LOCATIONS TO BE DETERMINED DURING INSTALLATION. REFER TO EQUIPMENT MANUFACTURER DRAWINGS.
3. THE GENERAL CONTRACTOR SHALL FURNISH/INSTALL NEOPRENE VIBRATION ISOLATORS PER EQUIPMENT MANUFACTURING SPECIFICATIONS.
4. CONCRETE MIXTURE BY VOLUME OF 1-2-3 OF CEMENT, SAND, AGGREGATE WITH MAXIMUM FOUR INCH SLUMP AND 28-DAY COMPRESSIVE STRENGTH OF 3000 PSI.
5. PROVIDE 3/4" BEVEL ON ALL EDGES OF CONCRETE PAD.

LEGEND



GENERATOR SITE DETAIL

SCALE: 1/2" = 1'-0"



GENERATOR ELEVATIONS

SCALE: 1/2" = 1'-0"

REVISIONS		
NO.	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

**Electronic Environments**  
Infrastructure Solutions  
ELECTRONIC ENVIRONMENTS CORP.  
60 SHAWMUT ROAD  
CANTON, MA 02021  
(781) 502-2600  
www.eacnet.com

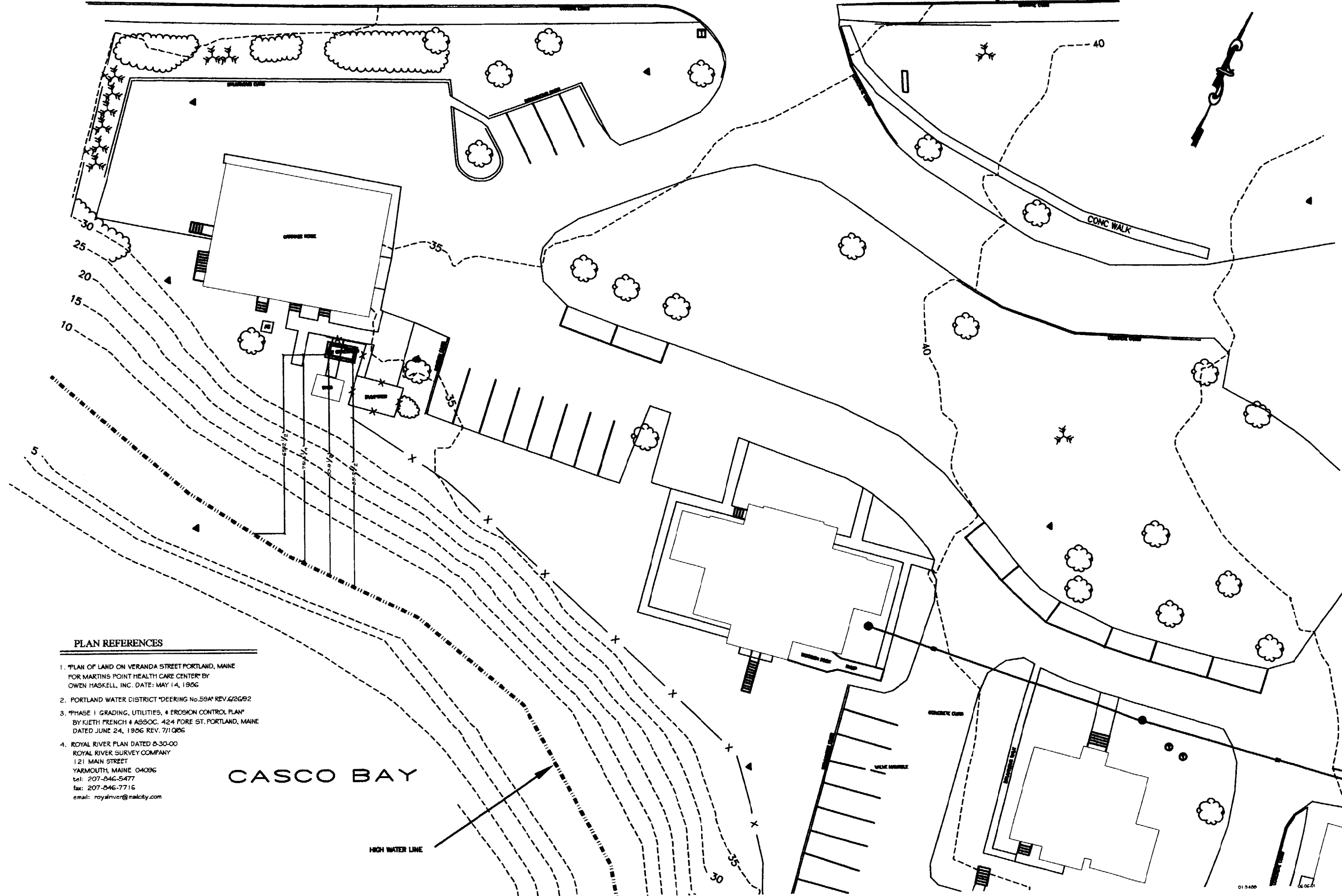
MARTIN POINT HEALTH CARE  
CARRIAGE HOUSE FACILITY  
PORTLAND, MAINE

PROJECT  
DATA CENTER DESIGN

PROJECT TITLE  
GENERATOR SITE PLAN,  
DETAILS AND NOTES

DESIGNED RG	JOB NO. 01-5408
DRAWN RG	DATE 06-06-01
CHECKED TDG	SCALE AS NOTED
SHEET NO.	

VERANDA STREET



**PLAN REFERENCES**

1. "PLAN OF LAND ON VERANDA STREET PORTLAND, MAINE FOR MARTINS POINT HEALTH CARE CENTER" BY OWEN HASKELL, INC. DATE: MAY 14, 1986
2. PORTLAND WATER DISTRICT "DEERING No.59A" REV.6/26/92
3. "PHASE I GRADING, UTILITIES, & EROSION CONTROL PLAN" BY KEITH FRENCH & ASSOC. 424 FORT ST. PORTLAND, MAINE DATED JUNE 24, 1986 REV. 7/1/06
4. ROYAL RIVER PLAN DATED 8-30-00  
ROYAL RIVER SURVEY COMPANY  
121 MAIN STREET  
YARMOUTH, MAINE 04096  
tel: 207-846-5477  
fax: 207-846-7716  
email: royalriver@malcity.com

CASCO BAY

HIGH WATER LINE

REVISIONS		
NO.	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

**Electronic Environments**  
Infrastructure Solutions

ELECTRONIC ENVIRONMENTS CORP.  
60 BHAMMUT ROAD  
CANTON, MA 02021  
(781) 502-2600  
www.eecnet.com

REAL

MARTINS POINT HEALTH CARE  
CARRIAGE HOUSE FACILITY  
PORTLAND, MAINE

PROJECT

DATA CENTER DESIGN

PROJECT TITLE

GENERATOR SITE PLAN,  
EXPANDED VIEW

DESIGNED RG	JOB NO. 01-5406
DRAWN RG	DATE 06-06-01
CHECKED TDG	SCALE AS NOTED

HEET NO.

S2 OF 2