

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK

CITY OF PORTLAND

BUILDING INSPECTION

PERMIT

Permit Number: 060816

Please Read Application And Notes, If Any, Attached

This is to certify that GULF OF MAINE PROPERTIES INC
has permission to Gulf Of Maine- Install 2 storage units 8' H x 7' W x 6' & 8' H x 26' W x 8' D
AT 344 COMMERCIAL ST L 042 C00100

PERMIT ISSUED
NOV 14 2006
CITY OF PORTLAND

provided that the person or persons who perform or supervise the construction of this permit shall comply with all of the provisions of the Statutes of the State of Maine and of the Ordinances of the City of Portland relating to the construction, maintenance and use of buildings and structures, and of the application on file in this department.

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

Notification of inspection must be given and when permission is procured before this building or part thereof is loaded or closed-in. 24 HOUR NOTICE IS REQUIRED.

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

OTHER REQUIRED APPROVALS

Fire Dept. _____
Health Dept. _____
Appeal Board _____
Other _____
Department Name

Jeanne Banke 11/14/06
Director - Building & Inspection Services

PENALTY FOR REMOVING THIS CARD

City of Portland, Maine - Building or Use Permit Application

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

Permit No: 06-0816	Issue Date: NOV 14 2006	CBL: 042 C001001
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Location of Construction: 344 COMMERCIAL ST	Owner Name: GULF OF MAINE PROPERTIES I	Owner Address: PO BOX 7549	Phone: 728-1635 SHALLO
Business Name:	Contractor Name:	Contractor Address: CITY OF PORTLAND	Phone:
Lessee/Buyer's Name	Phone:	Permit Type: Additions - Commercial	Zone: WCC

Past Use: Commercial/ Gulf of Maine	Proposed Use: Commercial/ Gulf Of Maine- Install 2 storage units 8'6"H x 7'D x 5' & 8'6"H x 26' W x 8' D	Permit Fee: \$120.00	Cost of Work: \$11,000.00	CEO District: 2
Proposed Project Description: Gulf Of Maine- Install 2 storage units 8'6"H x 7'D x 5' & 8'6"H x 26' W x 8' D		FIRE DEPT: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied <i>Labeled</i>	INSPECTION: Use Group: S Type: 2B	

Signature: <i>Craig Cross</i>	Signature: <i>JMB 11/14/06</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: Idobson	Date Applied For: 06/01/2006	Zoning Approval	
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<p>1. This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.</p> <p>2. Building permits do not include plumbing, septic or electrical work.</p> <p>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..</p>	<p>Special Zone or Reviews</p> <p><input type="checkbox"/> Shoreland <i>exempt</i></p> <p><input type="checkbox"/> Wetland</p> <p><input type="checkbox"/> Flood Zone</p> <p><input type="checkbox"/> Subdivision</p> <p><input type="checkbox"/> Site Plan</p> <p>Maj <input type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/></p> <p>Date: <i>6/2/06</i></p>	<p>Zoning Appeal</p> <p><input type="checkbox"/> Variance</p> <p><input type="checkbox"/> Miscellaneous</p> <p><input type="checkbox"/> Conditional Use</p> <p><input type="checkbox"/> Interpretation</p> <p><input type="checkbox"/> Approved</p> <p><input type="checkbox"/> Denied</p> <p>Date:</p>	<p>Historic Preservation</p> <p><input checked="" type="checkbox"/> Not in District or Landmark</p> <p><input type="checkbox"/> Does Not Require Review</p> <p><input type="checkbox"/> Requires Review</p> <p><input type="checkbox"/> Approved</p> <p><input type="checkbox"/> Approved w/Conditions</p> <p><input type="checkbox"/> Denied</p> <p>Date:</p>
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CERTIFICATION

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

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



State of Maine
 Department of Public Safety
 Construction Permit



Not
 Reviewed
 for Barrier
 Free

Not Sprinkled

16084

GULF OF MAINE RESEARCH INSTITUTE HAZARD STORAGE

Located at: 350 COMMERCIAL ST.

PORTLAND

Occupancy/Use: ASSEMBLY CLASS A

Permission is hereby given to:

GULF OF MAINE PROPERTIES, INC.

350 COMMERCIAL ST.

PORTLAND, ME 04101

to construct or alter the afore referenced building according to the plans hitherto filed with the Commisioner and now approved.

No departure from application form/plans shall be made without prior approval in writing. This permit is issued under the provision of Title 25, Chapter 317, Section 2448 .

Nothing herein shall excuse the holder of this permit for failure to comply with local ordinances, zoning laws, or other pertinent legal restrictions. Each permit issued shall be displayed/available at the site of construction.

This permit will expire at midnight on the 5th of March 2007

Dated the 6th day of September A.D. 2006

Commissioner

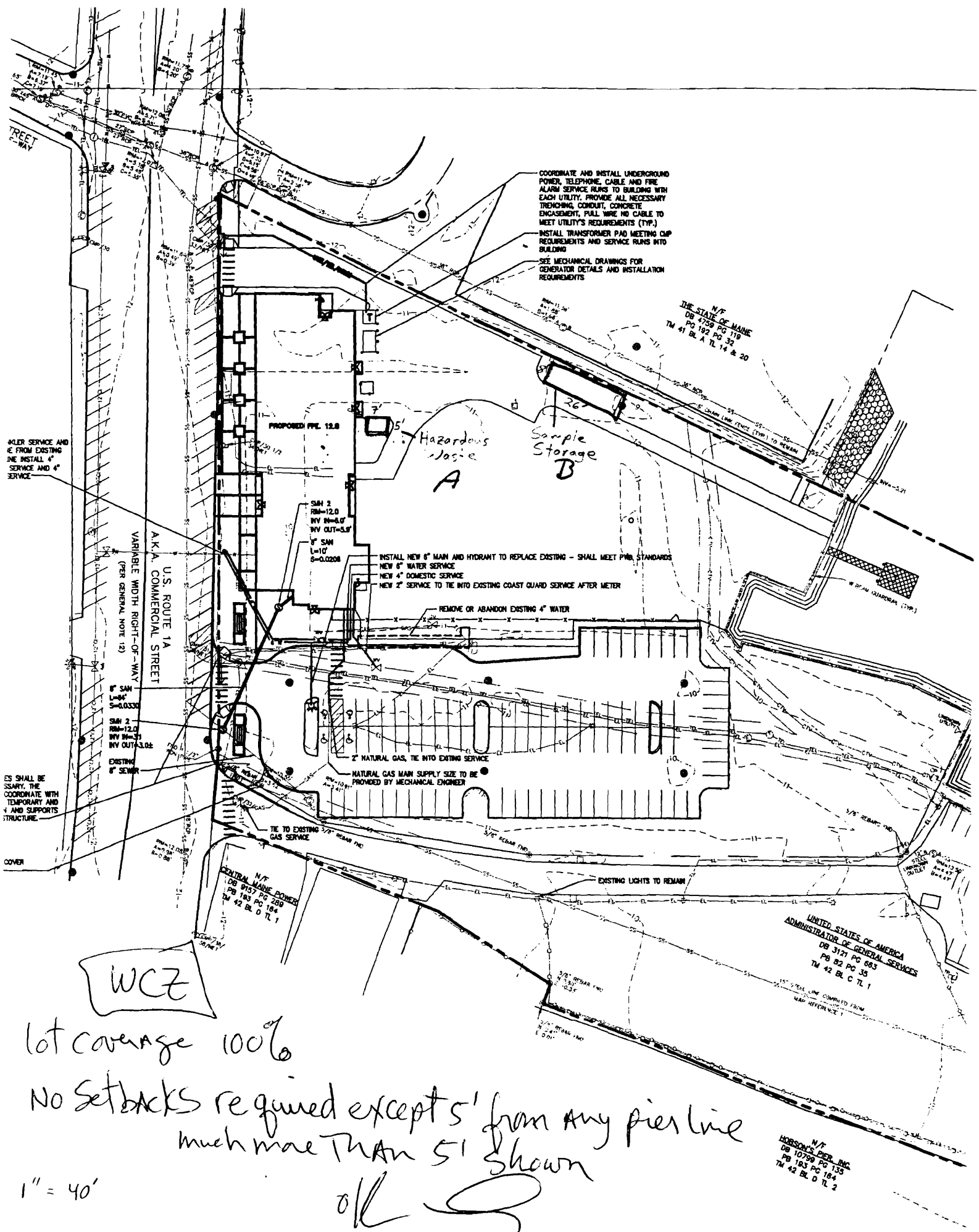
Copy-1 Owner

Comments:

GULF OF MAINE PROPERTIES, INC.

350 COMMERCIAL ST.

PORTLAND, ME 04101



COORDINATE AND INSTALL UNDERGROUND POWER, TELEPHONE, CABLE AND FIRE ALARM SERVICE RUNS TO BUILDING WITH EACH UTILITY. PROVIDE ALL NECESSARY TRENCHING, CONDUIT, CONCRETE ENCASUREMENT, PULL WIRE NO CABLE TO MEET UTILITY'S REQUIREMENTS (TYP.)

INSTALL TRANSFORMER PAD MEETING ALL REQUIREMENTS AND SERVICE RUNS INTO BUILDING

SEE MECHANICAL DRAWINGS FOR GENERATOR DETAILS AND INSTALLATION REQUIREMENTS

N/F
 THE STATE OF MAINE
 DB 4759 PG 319
 PB 192 PG 32
 TM 41 BL A TL 14 & 20

WATER SERVICE AND ...
 ... INSTALL 4" SERVICE AND 4" SERVICE

... SHALL BE NECESSARY. THE ...
 ... COORDINATE WITH ...
 ... TEMPORARY AND ...
 ... AND SUPPORTS ...
 ... STRUCTURE.

COVER

WCZ

lot coverage 100%

No setbacks required except 5' from any pier line
 much more than 5' shown

1" = 40'

ok S

UNITED STATES OF AMERICA
 ADMINISTRATOR OF GENERAL SERVICES
 DB 3121 PG 663
 PB B2 PG 35
 TM 42 BL C TL 1

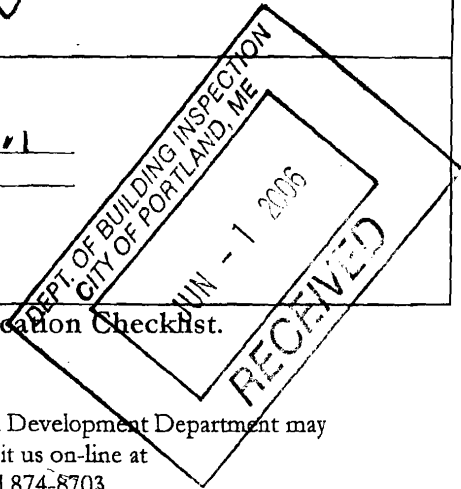
N/F
 HOBSON'S PIER, INC.
 DB 10799 PG 135
 PB 183 PG 184
 TM 42 BL D TL 2



General Building Permit Application

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

Location/Address of Construction: <u>350 Commercial St., Portland, ME 04101</u>		
Total Square Footage of Proposed Structure <u>8'6" H x 7' D x 5' W + 8'6" H x 26' W x 8' D</u>		Square Footage of Lot
Tax Assessor's Chart, Block & Lot Chart# <u>42</u> Block# <u>C</u> Lot# <u>1</u>	Owner: <u>Gulf of Maine Properties Inc</u>	Telephone: <u>207 742 2521</u>
Lessee/Buyer's Name (If Applicable) <u>Gulf of Maine Research Institute</u>	Applicant name, address & telephone: <u>GMRI 350 Commercial St. Portland, ME 04101</u>	Cost of Work: \$ <u>11,000</u> Fee: \$ <u>120</u> C of O Fee: \$
Current Specific use: <u>Gulf of ME / Commercial Prop.</u> Proposed Specific use: <u>Storage of Hazardous Waste</u>	Project description: <u>Installation of two storage units, 8'6" H x 7' D x 5' and 8'6" H x 26' W x 8' D on the property</u>	
Contractor's name, address & telephone: <u>?</u>		
Who should we contact when the permit is ready: <u>Julie Franklin</u> Mailing address: <u>Above.</u> Phone: <u>228-1620</u>		



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

In order to be sure the City fully understands the full scope of the project, the Planning and Development Department may request additional information prior to the issuance of a permit. For further information visit us on-line at www.portlandmaine.gov, stop by the Building Inspections office, room 315 City Hall or call 874-8703.

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

Signature of applicant: <u>Julie E. Franklin</u>	Date: <u>6/1/06</u>
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This is not a permit; you may not commence ANY work until the permit is issued.

January 19, 2006
Project No. 03034

William B. Needelman, Planner
Planning and Development Department
Portland City Hall
389 Congress Street
Portland, Maine 04101

Re: Gulf of Maine Research Laboratory
Site Plan Review Exemption Application
Storage Sheds

Dear Bill:

Enclosed find a completed Application for Exemption From Site Plan Review for two storage sheds to be placed on site at the Gulf of Maine Research Facility at 350 Commercial Street. A site plan, as well as photographs are included to indicate the proposed locations for the sheds. Sample photographs of the sheds are included as well.

Dennis Jud, SMRT, has provided you with the required "itemized statement by a qualified professional" regarding the satisfaction of the exemption criteria.

Please contact me or Dennis if you have any additional questions.

Sincerely,

Shale Rosen
Gulf of Maine Research Institute.

cc: Don Perkins, Gulf of Maine Research Institute
Dennis V. Jud, SMRT

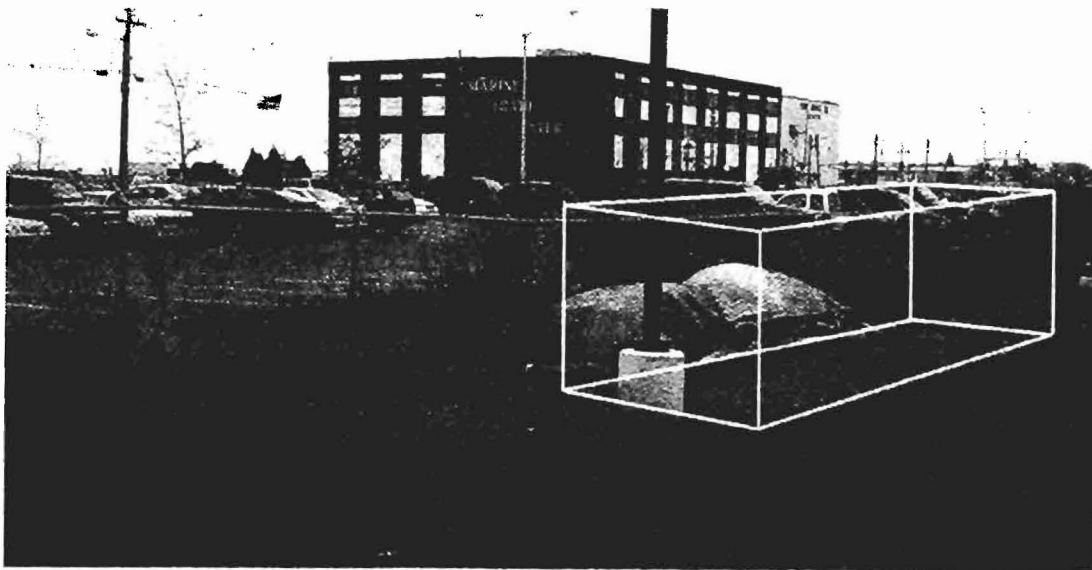
File

The Gulf of Maine Research Institute requests exemption to site plan review for the placement of two storage buildings, one for preserved samples (marine organisms) and one for the short-term storage of hazardous waste (as a Small Quantity Generator GMRI is permitted to store hazardous waste for 180 days before it is taken offsite for disposal).

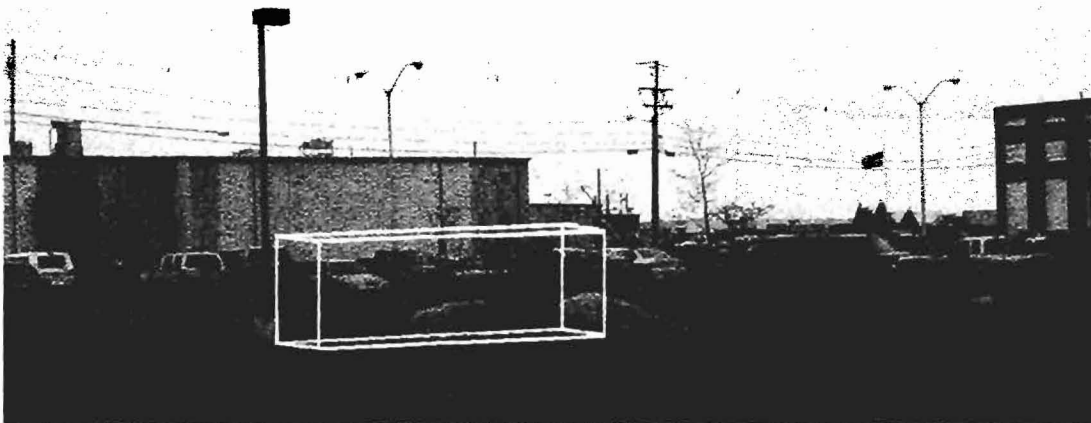
The proposed buildings meet all of the provisions in standards a-h of subsection 14-523 of the Portland City Code:

- Footprints are 208 and 35 square feet respectively
- No new curb cuts, driveways, or parking areas will be required
- Both buildings will be located adjacent to a one year old asphalt pad
- There will be no increase in parking requirements or additional traffic created
- No stormwater problems will be created
- Both proposed locations are both in areas that are screened from general view
- Utilities requirements (electricity only) can be supplied by the existing research laboratory's infrastructure

The proposed sample storage building is 8 feet deep by 26 feet long by 8 ½ feet high. The location proposed is near the north property boundary, adjacent to the Marine Trade Center's parking lot. This is a portion of the property currently used for deliveries to the Gulf of Maine Research Institute. The site would be graded and the building would be placed on a 10 foot by 28 foot concrete pad.

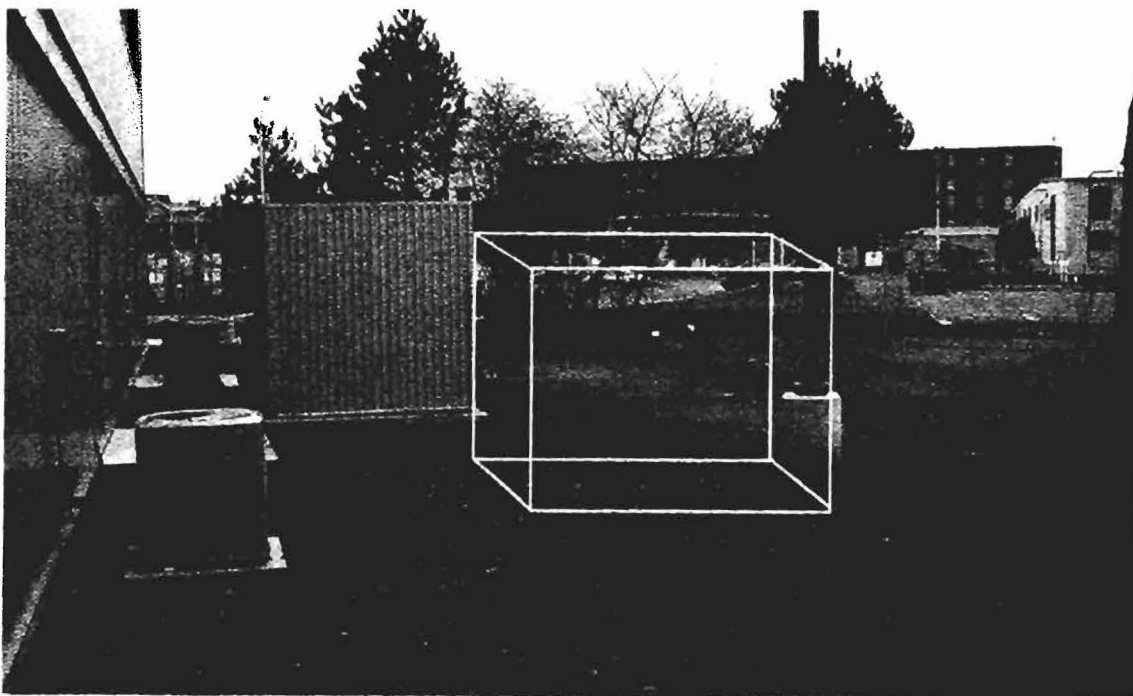


Proposed site for sample storage building, looking northeast



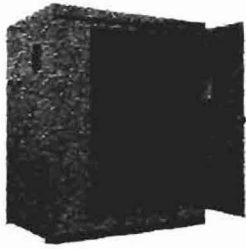
Proposed site for sample storage building, looking North.

The hazardous waste storage building would be 5 feet deep by 7 feet long by 8 ½ feet high. Specifications have been discussed with the Maine Department of Environmental Protection, and the proposed location is beyond the minimum setback from the nearest property boundary (50 feet). This location is inside a currently grassy area near the East side of the Research Institute's building. The site would be prepared by either pouring a 7 foot by 9 foot concrete pad or extending the asphalt apron an equal size and setting the building on it.



Proposed site for hazardous waste storage building, looking North

The buildings are delivered fully fabricated, and resemble steel shipping containers. They have received a 4-hour Factory Mutual System Approval fire rating, and are constructed with a sump capable of containing a spill that might occur inside. This sump raises the entrance to the buildings one foot above ground level. Power will be run in order to provide lights and heat, but water will not be run to either. The larger building (sample storage) will have a dry chemical fire suppression system and active exhaust system.



Manufacturer's picture of 7' X 5' building

A



B

Manufacturer's picture of 8' X 26' building



APPLICATION FOR EXEMPTION FROM SITE PLAN REVIEW

Gulf of Maine Research Institute

1/19/06

Applicant

Application Date

350 Commercial St Portland, ME 04101

Chemical Storage Containers

Applicant's Mailing Address

Project Name/Description

207 772-2321 (GMRI)

350 Commercial St

Consultant/Agent/Phone Number

Address of Proposed Site

207 772-3846 (Dennis Jud, SMRT)

CBL: _____

Description of Proposed Development:

Two separate Chemical Storage sheds to be located on the harbor side of the present Laboratory. One on 7'x9' concrete pad, one on 10'x28' concrete pad. Electricity to both for lighting and heat. No water.

Please Attach Sketch/Plan of Proposal/Development

Criteria for Exemptions:

See Section 14-523 (4) on back side of form

- a) Within Existing Structures; No New Buildings, Demolitions or Additions
- b) Footprint Increase Less Than 500 Sq. Ft.
- c) No New Curb Cuts, Driveways, Parking Areas
- d) Curbs and Sidewalks in Sound Condition/Comply with ADA
- e) No Additional Parking/ No Traffic Increase
- f) No Stormwater Problems
- g) Sufficient Property Screening
- h) Adequate Utilities

Applicant's Assessment (Yes, No, N/A)	Planning Office Use Only
Yes, as permitted by subsection b	
Yes, total 343 sq.ft.	
No, existing site has 2 curbcuts.	
Yes	
Yes	
Yes	
Yes	
Yes	

Planning Division Use Only

Exemption Granted _____ Partial Exemption _____ Exemption Denied _____

Planner's Signature _____ Date _____



A & A Sheet Metal Products Inc.
 5122 N. State Rd. 39
 P.O. Box 1848
 La Porte, IN 46352-1848
 888-326-7890 FAX: 888-324-3780

Quote

Date	Quote #
8/30/2005	1345

Name / Address	Ship To
Gulf of Maine Research Institute Portland, ME 04101	same

Customer Contact	P.O. No.	Terms	Rep	Project
Shale Rosen		Pending Credit	KL	

Item	Description	Qty	Rate	Total
B600XFR4-GRAY	6 DRM STRG UNT 4 HR RATING WITH X/PANEL 8'6"H x 7'D x 5'W Sump Capacity: 113 gals	1	4,622.00	4,622.00
OP0001	EXPL PRF LIGHT W/SWITCH INT	1	579.00	579.00
OP0006-6	EXPL PRF HEATER 6,000 BTU	1	1,180.00	1,180.00
OP0009-6	R11 Insulation Walls and Ceiling	1	125.00	125.00
BR65	Building Ramp 40 x 88-Steel	1	494.00	494.00
OP0041	ADJUSTABLE VENTS 18x18	2	150.00	300.00
Freight Estimate	Freight Estimate	1	1,114.00	1,114.00
* For B900XFR4 add \$900 * Price for B600XFR2 is \$3,978 * Price for B900XFR2 is \$5,253				
SF B <12	NOTE: Building may require State Approval. Please check with your Local Authorities (ie: Fire Marshall) to determine if State Approval and/or State Seal are required. Additional charges and lead times may apply. Standard Features * Building has double wall, welded construction, 3" airspace throughout. * Exterior walls are 16-gauge Galvannealed steel. Interior walls are 20-gauge cold roll. * One 42"W x 80"H, Door with a UL classified Commercial grade keyed lock set. * 16 Gauge steel sump. * Heavy Gauge forklift channels with open-end construction. * Bolt-down plates (4) with 7/8" diameter holes for wind and seismic bracing.		0.00	0.00
Cancellation Fees may apply		Securallbuildings.com Email: Contact@securallbuildings.com		Total



A & A Sheet Metal Products Inc.
 5122 N. State Rd. 39
 P.O. Box 1848
 La Porte, IN 46352-1848
 888-326-7890 FAX: 888-324-3780

Quote

Date	Quote #
8/30/2005	1345

Name / Address	Ship To
Gulf of Maine Research Institute Portland, ME 04101	same

Customer Contact	P.O. No.	Terms	Rep	Project
Shale Rosen		Pending Credit	KL	
Item	Description	Qty	Rate	Total
	<ul style="list-style-type: none"> * Multiple static grounding connections. * Inlet vents for natural ventilation. * Load Center is 120/240 Volt Single-Phase, NEMA 3R Rated. * Explosion relief panels located in the rear wall of the building. * Hazard labeling (DOT Placard Holder, NFPA 704 rating signs). * Finish is a two-part chemical resistant aliphatic polyurethane. (Gray) * Complies to NFPA Code 30. * Building Factory Mutual approved, and UL listed accessories. * Electrical installation UL classified and installed in accordance with the NEC 1999 and 2002 editions. <p>FOB: LaPorte, IN 46350 Lead Time: 4-6 Weeks ARO</p> <p>Customer is responsible for the off-loading of the building once it arrives at the destination. Freight based on quote from an independent trucking company and represents our best estimate. The actual freight charge incurred at time of shipment will be billed whether greater or lesser than the above estimate. Terms: 1/3 payment with P.O., balance NET 30. Other terms may apply pending credit approval. ** If Dry Chemical Fire Suppression System is Ordered ** Fire Suppression System is designed and installed in accordance with the National Fire Protection Association (NFPA17). As required by the D.O.T. the system is shipped with the pressurized tank and the nitrogen cartridge un-installed to prevent discharge during shipment. We recommend you contact your local ANSUL distributor for final activation. Securall will provide a list of distributors at time of shipment.</p>			
Cancellation Fees may apply		Securallbuildings.com Email: Contact@securallbuildings.com		Total



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 P.O. Box 1848
 La Porte, IN 46352-1848
 888-326-7890 FAX: 888-324-3780

Quote

Date	Quote #
8/30/2005	1345

Name / Address	Ship To
Gulf of Maine Research Institute Portland, ME 04101	same

Customer Contact	P.O. No.	Terms	Rep	Project
Shale Rosen		Pending Credit	KL	

Item	Description	Qty	Rate	Total
	<p>*PRICING IS SUBJECT TO CHANGE DUE TO AN INCREASE IN STEEL PRICES. *PRICING IS GOOD FOR 30 DAYS. ** A FINANCE CHARGE OF 2% (APR 24%) MAY BE CHARGED ON ALL PAST DUE ACCOUNTS ** This building is designed to the best of our knowledge based on information provided by third parties and manufacturers of related equipment. A & A Securall is not acting in the capacity of engineer and does not assume any liability with respect to engineering requirements. Always consult a professional engineer for final design.</p>			

Cancellation Fees may apply	Securallbuildings.com Email: Contact@securallbuildings.com	Total	\$8,414.00
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A & A Sheet Metal Products Inc.
 5122 N. State Rd. 39
 P.O. Box 1848
 La Porte, IN 46352-1848
 888-326-7890 FAX: 888-324-3780

Quote

Date	Quote #
8/30/2005	1347

Name / Address	Ship To
Gulf of Maine Research Institute Portland, ME 04101	

Customer Contact	P.O. No.	Terms	Rep	Project
Shale Rosen		Pending Credit	KL	

Item	Description	Qty	Rate	Total
B4800XFR4-GRAY	48 Drum Storage Unit W/X Panel 4 HR FIRE RATED 8'6H X 26'W X 8'D Sump Capacity: 790 gals.	1	17,158.00	17,158.00
OP0001	EXPL PRF LIGHT W/SWITCH INT	1	579.00	579.00
OP0001A	ADDTL EX PRF INT LIGHT	2	321.00	642.00
OP0013-343	EXPL PROOF EXHAUST SYSTEM 343 CFM WITH INDICATOR LIGHT	1	1,716.00	1,716.00
OP0010-24-48	Dry Chem Fire Suppression Sys	1	1,825.00	1,825.00
OP0010A	Dry Chemical Alarm	1	160.00	160.00
OP0022	SHELVES, 14'W W/2' LIP SIDES (120' is max available - 3 tiers)	120	20.00	2,400.00
OP0009-48	R11 Insulation Walls and Ceiling	1	480.00	480.00
OP0006-25FF	EXPL PRF HEATER FAN FORCED 25,600 BTU	1	4,360.00	4,360.00
OP0041	ADJUSTABLE VENTS 18x18	6	150.00	900.00
Freight Estimate	Freight Estimate	1	3,277.00	3,277.00
SF B>16	NOTE: Building may require State Approval. Please check with your Local Authorities (ie: Fire Marshall) to determine if State Approval and/or State Seal are required. Additional charges and lead times may apply. Standard Features * Building has double wall, welded construction, 3" airspace throughout. * Exterior walls are 12-gauge galvaneal steel. Interior walls 20-gauge cold roll. * One 60"W x 80"H, Double Door with a UL classified Commercial grade keyed lockset. * 12 Gauge steel sump. * Heavy Gauge forklift channels with open-end construction. * Bolt-down plates (4) with 7/8" diameter holes for wind and seismic bracing. * Multiple static grounding connections.			

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Name / Address	Ship To
Gulf of Maine Research Institute Portland, ME 04101	

Customer Contact	P.O. No.	Terms	Rep	Project
Shale Rosen		Pending Credit	KL	

Item	Description	Qty	Rate	Total
	<ul style="list-style-type: none"> * Inlet vents for natural ventilation with Fire Dampers. * Load Center is 120/240/480 Volt Single-Phase, NEMA 3R Rated. * Explosion relief panels located in the rear wall of the building. * Hazard labeling (DOT Placard Holder, NFPA 704 rating signs). * Finish is a two-part chemical resistant aliphatic polyurethane. (Gray) * Complies to NFPA Code 30. * Building Factory Mutual approved, and UL listed accessories. * Electrical installation UL classified and installed in accordance with the NEC 1999 and 2002 editions. <p>Lead Time:6-8 weeks pending approvals FOB: LaPorte, IN 46350</p> <p>Customer is responsible for the off-loading of the building once it arrives at the destination. Freight based on quote from an independent trucking company and represents our best estimate. The actual freight charge incurred at time of shipment will be billed whether greater or lesser than the above estimate.</p> <p>Terms: 1/3 payment with P.O., balance NET 30. Other terms may apply pending credit approval.</p> <p>**If Dry Chemical Fire Suppression System is Ordered** Fire Suppression System is designed and installed in accordance with the National Fire Protection Association (NFPA17). As required by the D.O.T. the system is shipped with the pressurized tank and the nitrogen cartridge un-installed to prevent discharge during shipment. We recommend you contact your local ANSUL distributor for final activation. Securall will provide a list of distributors at time of shipment.</p> <p>*PRICING IS SUBJECT TO CHANGE DUE TO AN INCREASE IN STEEL</p>			

Cancellation Fees may apply	Securallbuildings.com Email: Contact@securallbuildings.com	Total
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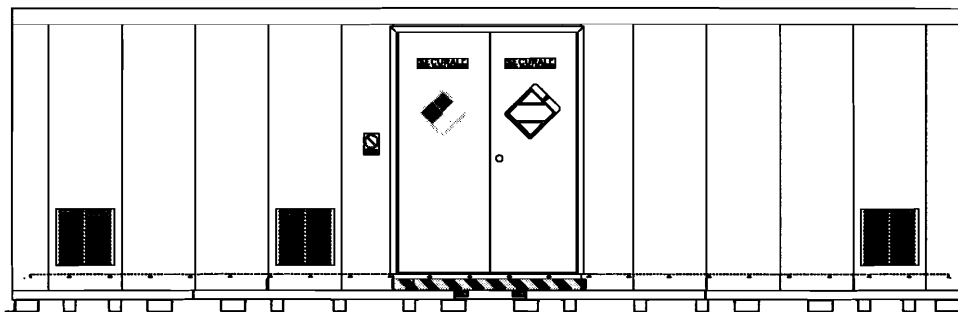
Customer Contact	P.O. No.	Terms	Rep	Project
Shale Rosen		Pending Credit	KL	

Item	Description	Qty	Rate	Total
	<p>PRICES. *PRICING IS GOOD FOR 30 DAYS. ** A FINANCE CHARGE OF 2% (APR 24%) MAY BE CHARGED ON ALL PAST DUE ACCOUNTS**</p> <p>This building is designed to the best of our knowledge based on information provided by third parties and manufacturers of related equipment. A & A Securall is not acting in the capacity of engineer and does not assume any liability with respect to engineering requirements. Always consult a professional engineer for final design.</p>			

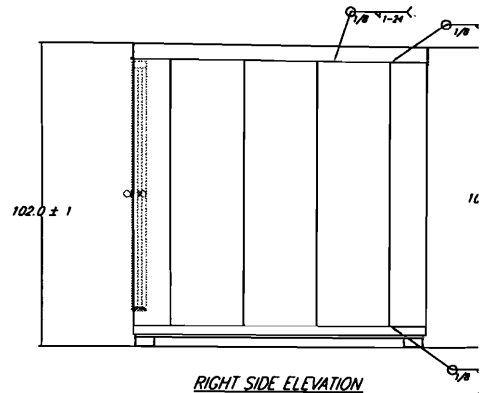
Cancellation Fees may apply	Securallbuildings.com Email: Contact@securallbuildings.com	Total	\$33,497.00
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- Model 4800
large (48 barrel)
storage unit

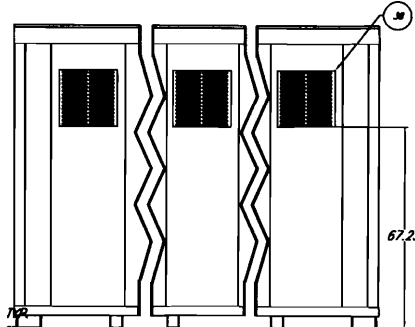
- Model 600
(6 barrel)
is smaller one
for waste



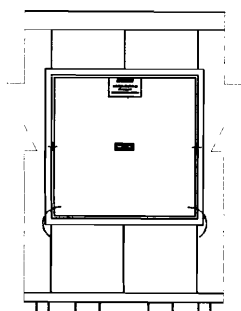
FRONT ELEVATION



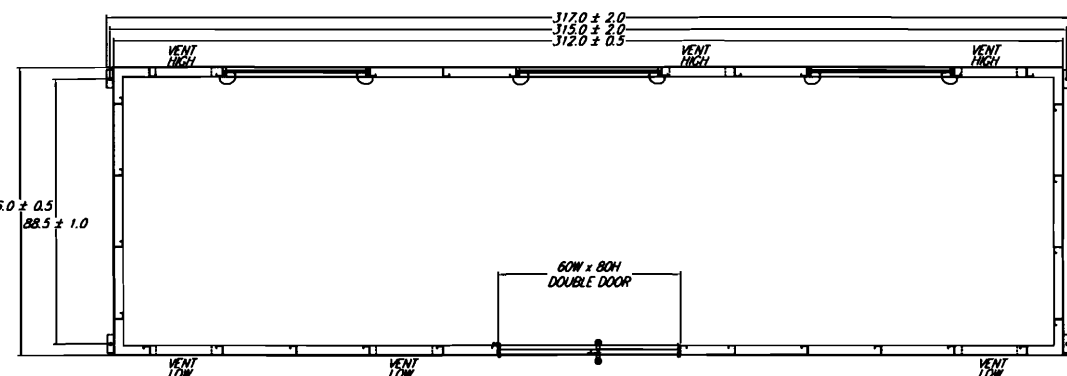
RIGHT SIDE ELEVATION




REAR VENT ELEVATION



EXPLOSION PANEL
48 x 48
"X" MODELS ONLY



SECTION A-A


APPROVED
 Factory Mutual Approved
 NO CHANGES ARE TO BE MADE
 WITHOUT NOTIFICATION TO AND
 APPROVAL FROM FACTORY MUTUAL
 RESEARCH CORPORATION

SPACE RESERVED FOR STAMPS OF APPROVAL

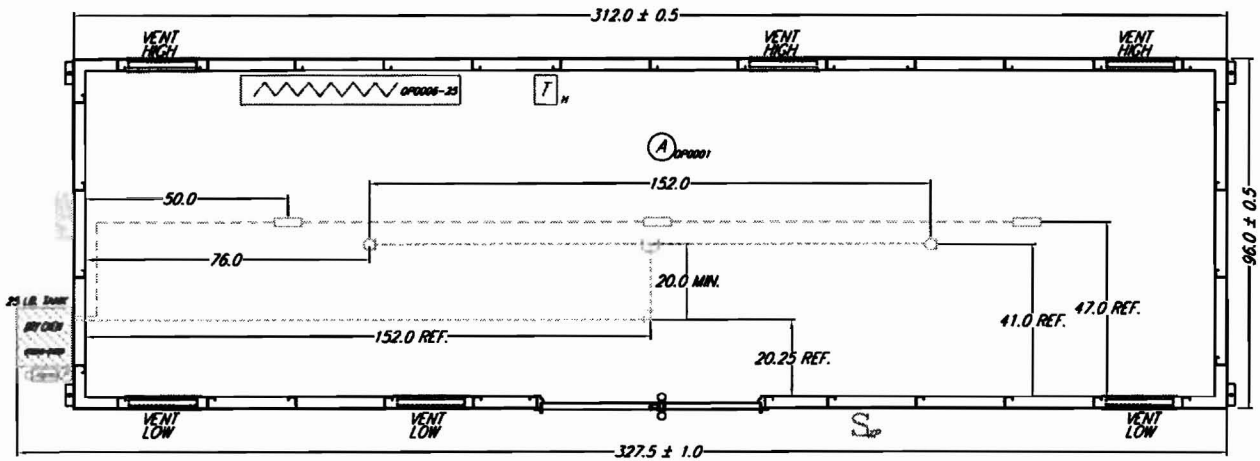
A & A SHEET METAL PRODUCTS, INC. LA PORTE, INDIANA 46360	
CAD DWG NO. MODEL 4800	SUB-DWG. BUILDINGS
TITLE MODEL 4800	
PART NUMBER SEE DESIGN REQUIREMENT 1	REVISION 05/21/06
SCALE Not To Scale	SHEET NUMBER 4 OF 4

16.0 ± 0.5
88.5 ± 1.0

317.0 ± 2.0
315.0 ± 2.0
312.0 ± 0.5

67.25

7/8" DIA TOP



LEGEND

- Ⓢ EXPLOSION PROOF LIGHT FIXTURE 1.25 A, 120 V
- S_w EXPLOSION PROOF SWITCH IN WEATHER PROOF ENCLOSURE, 15 A, 120/277 V
- LOAD CENTER NEMA 3R, 120/240 V
- HEATER WITH DETACHED THERMOSTAT
25,838 BTU 31.7 A, 240 V (Must Use 60 Amp Contactor on Thermostat)
- Ⓜ THERMOSTAT 22 A, 125/277 V, DOUBLE THROW
- DRY CHEMICAL SYSTEM ALARM
- Ⓡ REMOTE PULL STATION, P/N 54011
- Ⓢ TOTAL FLOODING NOZZLE, TFN 3/4"
- FUSIBLE LINK DETECTOR, P/N 56838 CLIP-ON STYLE
- DRY CHEMICAL FIRE SUPPRESSION SYSTEM ENCLOSURE
TANK ASSEMBLY
BRACKET ASSEMBLY
SAFETY RELIEF VALVE
AUTOMAN MECHANICAL RELEASE

PRELIMINARY DRAWING
FOR DISCUSSION PURPOSES ONLY

- ELECTRICAL NOTES:**
- ALL WIRING METHODS ARE IN ACCORDANCE TO THE 1999 & 2002 NATIONAL ELECTRIC CODE INCLUDING ARTICLE 500 & 501, AND ARE SUBJECT TO THE AUTHORITY HAVING JURISDICTION.
 - MODELS B1 AND B200 THRU B8000 WIRING METHODS FOR THE INTERIOR OF THE BUILDING IS DESIGNED FOR CLASS I, DIVISION 1 HAZARDOUS LOCATIONS.
 - LOCATION AND QUANTITY OF DEVICES AND FIXTURES AND CONDUIT CAN VARY BASED ON CUSTOMER'S REQUIREMENTS, AUTHORITY HAVING JURISDICTION, & ELECTRICIAN'S RECOMMENDATION.
 - B/BL MODELS
CONDUCTOR: 12 - 10 - 8 AWG THIN
REFERENCE TABLE 310-16 IN NATIONAL ELECTRIC CODE HANDBOOK, 1999 & 2002 FOR ALLOWABLE AMPACITIES.
- CONDUIT:**
TYPE: THREADED RIGID METAL CONDUIT
SIZES: 1/2", 3/4" & 1"
NO. OF CONDUCTORS IN CONDUIT: REFERENCE TABLE C8 IN NATIONAL ELECTRICAL CODE HANDBOOK, 1999 & 2002
- ALL DEVICES ARE UL LISTED.
 - TYPE OF CIRCUIT PROTECTION REQUIRED:
LIGHT: STANDARD UL LISTED CIRCUIT BREAKER OR FUSE
HEATER: FERRULE-CONTACT TYPE, CLASS J, FAST ACTING FUSE OR UL LISTED CIRCUIT BREAKER.
 - ELECTRICAL SERVICE PANEL SWITCH TO BE A MAXIMUM OF 6' 7" FROM GRADE.

- FIRE SUPPRESSION SYSTEM NOTES:**
- FIRE SUPPRESSION SYSTEM IS DESIGNED AND INSTALLED IN ACCORDANCE WITH THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA 17) "STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS".
- SECURALL STORAGE BUILDINGS PROVIDE ANSUL IND-X INDUSTRIAL FIRE SUPPRESSION SYSTEMS AND ARE LISTED BY UNDERWRITERS LABORATORIES AND APPROVED BY FACTORY MUTUAL RESEARCH CORPORATION.
- LOCATION OF DRY CHEMICAL ENCLOSURE MAY VARY BASED ON NUMBER OF BUILDING ACCESSORIES.
- DETECTORS MAY INCREASE BASED ON MANUFACTURER'S RECOMMENDATION AND LOCATION OF ACCESSORIES.
- DRY CHEMICAL SYSTEM IS SUBJECT TO THE AUTHORITY HAVING JURISDICTION.
- GENERAL PIPING REQUIREMENTS:**
- USE SCHEDULE 40 GALVANIZED PIPE CONFORMING TO ASTM A120, A53, OR A106. ALL FITTINGS MUST BE 300 LB. CLASS MINIMUM UNLESS OTHERWISE NOTED.
 - BEFORE ASSEMBLING, PIPE ENDS AND FITTINGS SHALL BE REAMED, AND INSIDE BLOWN CLEAR OF CHIPS.
 - INSIDE OF PIPE AND FITTINGS SHALL BE FREE OF OIL AND DIRT.
 - MINIMUM ALLOWED NIPPLE ON TANK OUTLET SHALL BE 1" DIA X 3" LONG.

SPACE RESERVED FOR STAMPS OF APPROVAL

FM

APPROVED

Factory Mutual Approved
NO CHANGES ARE TO BE MADE
WITHOUT NOTIFICATION TO AND
APPROVAL FROM FACTORY MUTUAL
RESEARCH CORPORATION

DATE		BY		FOR		A & S SHEET METAL PRODUCTS, INC.	
DATE	BY	DATE	BY	DATE	BY	12 PIERCE, ANDERSON AND	
DO NOT SCALE	REVISION	NO.	DATE	BY	DESCRIPTION	CAD DWG NO.	SUB-DWG.
						MODEL 4800	BUILDING
TOLERANCES		UNLESS OTHERWISE SPECIFIED		TITLE			
FRACTIONAL		DECIMAL		MODEL 4800			
AS SHOWN		UNLESS OTHERWISE SPECIFIED		PART NUMBER			
AS SHOWN		UNLESS OTHERWISE SPECIFIED		SIZE DESIGN REQUIREMENT 1			
AS SHOWN		UNLESS OTHERWISE SPECIFIED		SCALE			
AS SHOWN		UNLESS OTHERWISE SPECIFIED		REVISION			
AS SHOWN		UNLESS OTHERWISE SPECIFIED		1/12/04			
AS SHOWN		UNLESS OTHERWISE SPECIFIED		SHEET NUMBER			
AS SHOWN		UNLESS OTHERWISE SPECIFIED		2 OF 2			

FM DESIGN REQUIREMENTS

- 1 This drawing covers the following models: AG4800, AG4800FR2, AG4800FR4, B4800, B4800X, B4800XFR2, B4800XFR4, B4800FR2, B4800FR4.
- 2 This Building is of Non-combustible construction. Building walls, roof, sump, and doors are of all steel construction.
- 3 The building is capable of withstanding, as a minimum, a 90 MPH wind load equivalent to a velocity pressure of 19 PSF, and a downward vertical (Snow) load of 40 PSF, plus its own weight.
- 4 The floor support system shall be capable of supporting a load of 250 PSF under dry conditions.
- 5 A leak-tight sump, capable of containing at least 25 percent of the liquid storage capacity of the building shall be provided.
- 6 Building designed for natural or mechanical ventilation at a rate of 1 cu.ft./min/sq.ft. of floor area. Vent quantity or location may vary based on option placement.
- 7 The chemical storage building shall be grounded. The individual liquid containers shall be grounded while dispensing. Consult local codes for grounding building. 5/16" ground bolts and weld nuts are supplied on building. Order Securall's Part Number OP0023 for 8' ground rod & clamp, 10'-#6 copper cable, & terminal.
- 8 Explosion Relief: The structure shall be capable of withstanding an internal pressure of 100 PSF. Explosion relief venting area shall be at least 1 sq.ft. for each 50 cu.ft. of interior volume. Explosion relief panel shall be of light weight material and shall release at an explosion pressure of 20 PSF maximum. FMRC approved fasteners shall be used. Explosion relief panels to be tethered so it does not fly off uncontrolled.


MATERIAL SPECIFICATIONS

- 1 Material stating CRS QC shall conform to ASTM A366
Tensile strength = 42-58 ksi, Yield Strength = 28-44 ksi
Elongation % in 2" = 28-44, Rockwell B Hardness 38-60
- 2 Material stating HRS QC shall conform to ASTM A569
Tensile strength = 45-60 ksi, Yield strength = 30-45 ksi
Elongation % in 2" = 23-41, Rockwell B Hardness 50-70
- 3 Material stating galvaneal shall conform to ASTM A653,
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- 4 R-11 glass fiber batt placed in wall stud and ceiling cavities.
Standard on AG models, or as OP0009 on all other models.
- 5 2 Hour fire rated wall and 1 hour fire rated roof has (1)
layer of 3/4" thick Ultracode Gypsum or equivalent.
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layers of (2) layers of 3/4" thick Ultracode Gypsum.

Building Design Notes

1. Ground weld nuts & bolts conveniently located.
2-Exterior
4-Interior
2. Some variations allowed due to operator/installer preference and good workmanship.
3. Door size, quantity, and location may vary based on customer's requirements.

*PRELIMINARY DRAWING
FOR DISCUSSION PURPOSES ONLY*

 APPROVED Factory Mutual Approved NO CHANGES ARE TO BE MADE WITHOUT NOTIFICATION TO AND APPROVAL FROM FACTORY MUTUAL RESEARCH CORPORATION		SPACE RESERVED FOR STAMPS OF APPROVAL			
TITLE MODEL 4800	PART NUMBER SEE DESIGN REQUIREMENT 1	REVISION 1/12/04	A & A SHEET METAL PRODUCTS, INC. 14 PERRY, WILSON, OHIO		
DO NOT SCALE	TOLERANCES UNLESS OTHERWISE SPECIFIED	SCALE Not To Scale	CAD DWG NO. MODEL 4800	SHEET NO. BUILDINGS	SHEET NUMBER 1 OF 2

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		GENERAL Reference No. TITLE DO NOT SCALE	DATE SIZE QUANTITY TOLERANCES FINISH SCALE	PART NO. QUANTITY FINISH SCALE	DRAWING NO. QUANTITY FINISH SCALE

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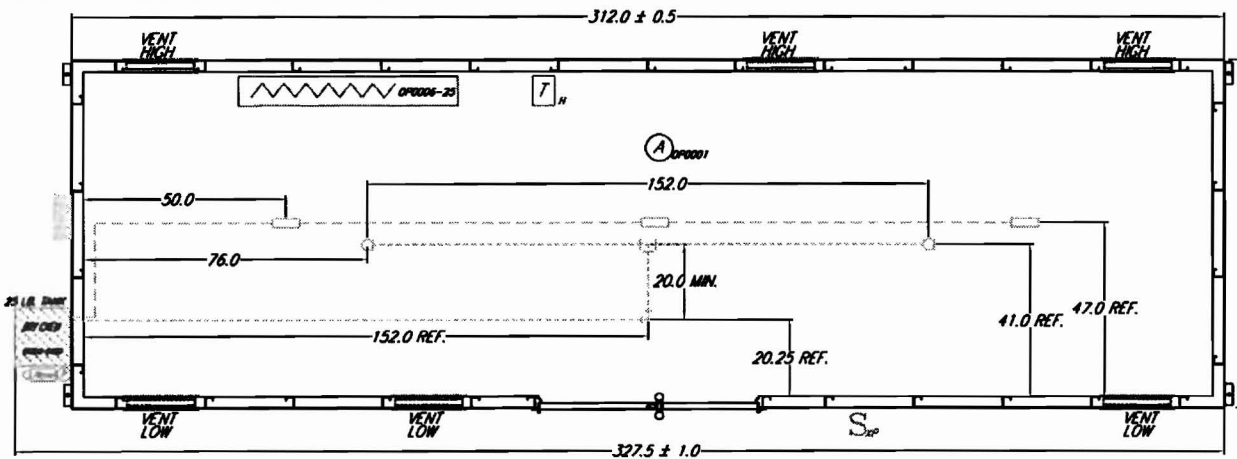
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		A & A SHEET METAL PRODUCTS, INC. 10 FERRY, WILSON, OHIO 45390 (513) 263-1111 FAX (513) 263-1112 WWW.AASMP.COM			
DATE	BY	CHKD	APP'D	SCALE	TITLE
					MODEL 4800
REV	DESCRIPTION	DATE	BY	CHKD	APP'D
TOLERANCES UNLESS OTHERWISE SPECIFIED: FRACTIONS: ±.0005" - .0010" DECIMALS: ±.0005" - .0010" ANGLES: ±.0005" - .0010"					PART NUMBER: SYT DESIGN REQUIREMENT 1 SCALE: Not To Scale SHEET NUMBER: 1 OF 2



LEGEND

- ⓐ EXPLOSION PROOF LIGHT FIXTURE, 1.25 A, 120 V
- Ⓢ EXPLOSION PROOF SWITCH IN WEATHER PROOF ENCLOSURE, 15 A, 120/277 V
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- HEATER, WITH DETACHED THERMOSTAT
25,938 BTU 37.7 A, 240 V (Must Use 60 Amp Contactor on Thermostat)
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CONDUCTOR: 12 - 10 - 8 AWG THHN
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HEATER: FERRULE-CONTACT TYPE, CLASS J, FAST ACTING FUSE OR UL LISTED CIRCUIT BREAKER.
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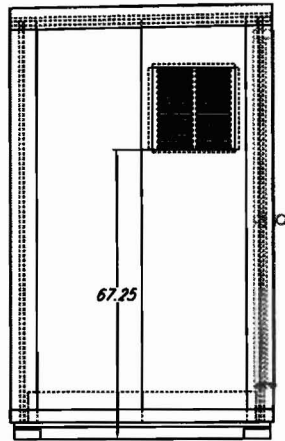
FM

APPROVED

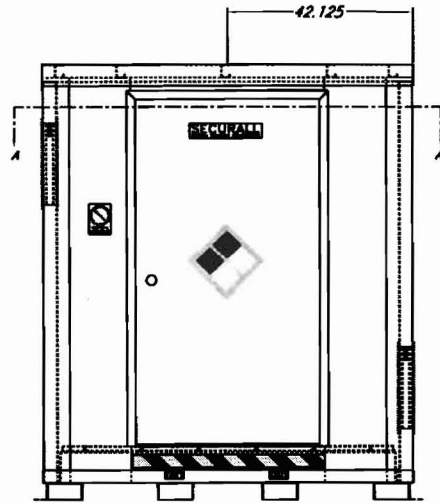
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DATE		BY		TITLE	
DATE		BY		TITLE	

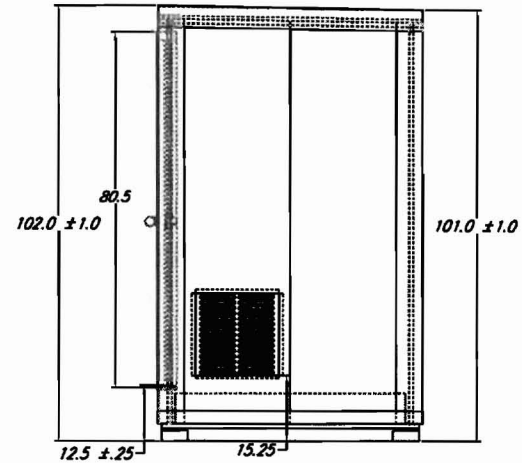
A & A SHEET METAL PRODUCTS, INC.			
24 PERRY, WILMINGTON, OHIO			
		CAD DWG NO.	SUB-DWG.
		MODEL 4800	BUILDINGS
TITLE MODEL 4800			
PART NUMBER		REVISION	
SEP DESIGN REQUIREMENT 1		1/12/04	
SCALE Not To Scale		SHEET NUMBER 2 OF 2	



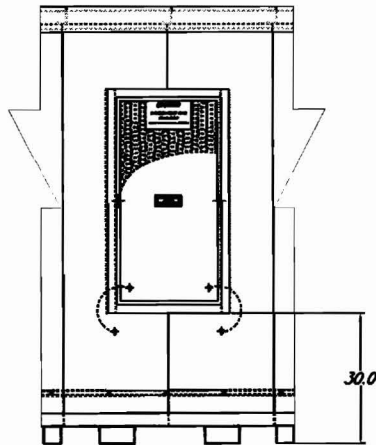
LEFT SIDE



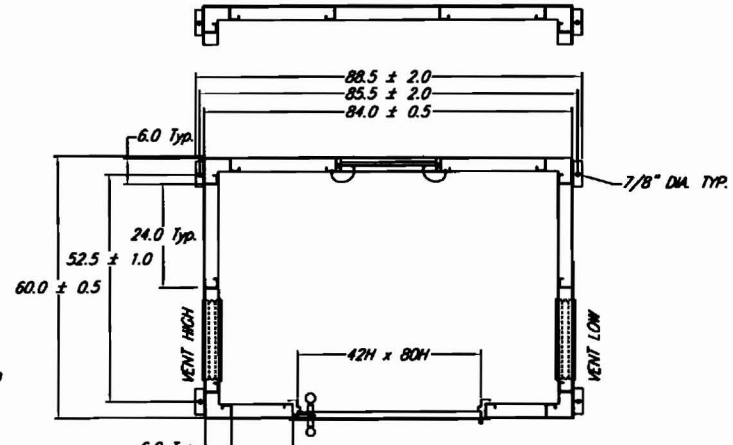
FRONT ELEVATION



RIGHT SIDE



EXPLOSION PANEL
24 x 48



SECTION A-A

This drawing covers the following models:
AG600, AG600FR2, AG600FR4, B600, B600X,
B600XFR2, B600XFR4, B600FR2, B600FR4.

FM

APPROVED

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RESEARCH CORPORATION

FORM		DATE		BY		A & S SMITH METAL PRODUCTS, INC.	
REVISED	DATE	BY	DATE	BY	DATE	LA PARR, BRUCE	4000
DO NOT SCALE				CAD DWG NO.		SUB-DR.	
TOLERANCES				CUST7600		BUILDINGS	
				TITLE		CUSTOMER 600	
				PART NUMBER		REVISION	
				CUSTOMER 600		10/13/03	
				SCALE		SHEET NUMBER	
				Not To Scale		1 OF 2	

SPACE RESERVED FOR STAMPS OF APPROVAL

FM DESIGN REQUIREMENTS

- 1 This drawing covers the following models: AG600, AG600FR2, AG600FR4, B600, B600X, B600XFR2, B600XFR4, B600FR2, B600FR4.
- 2 This Building is of Non-combustible construction. Building walls, roof, sump, and doors are of all steel construction.
- 3 The building is capable of withstanding, as a minimum, a 90 MPH wind load equivalent to a velocity pressure of 19 PSF, and a downward vertical (Snow) load of 40 PSF, plus its own weight.
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Elongation % in 2" = 28-44, Rockwell B Hardness 38-60
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Tensile strength = 45-60 ksi, Yield strength = 30-45 ksi
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Building Design Notes

- Ground weld nuts & bolts conveniently located.
 - 2-Exterior
 - 2-Interior
- Some variations allowed due to operator/installer preference and good workmanship.
- Door size, quantity, and location may vary based on customer's requirements.

WELDING NOTES

- ALL SPLICE WELDS FULL PENETRATION WITH BACKING, LEAVE BACK BAR.
- AFTER LEVELING SUMP.
- WHEN FLOOR SPLICE LANDS ON FORKLIFT CHANNEL OR BASE SUPPORT, OMIT FILLET ON SEAM SIDE.
- SEAL PASS AFTER WALL INSTALLED OR SUMP LEVELED.
- SEAL PASS CORNERS AND ROOF SEAMS AFTER ROOF INSTALLED.
- ON FRONT & REAR AT EACH FORK CHANNEL TUBE (1,2) OR BUILDING SUPPORT (4).
- EACH CONNECTION, ALL STUDS BOTH SIDES TOP & BOTTOM.
- ALL FLASHING TACK WELD ONLY AT EACH STUD OR 24".
- WELD AT CORNER AND EACH HINGE AREA TYPICAL.

Model 600	All Models	Non-Rated	FR2	FR4
Exterior Dimensions	102Hx84Wx60D	---	---	---
55 gal Drum Capacity	6	---	---	---
Interior Dimensions	---	85Hx78Wx54D	84.25Hx76.5Wx52.5D	83.5Hx75Wx51D
Interior Area	---	29.3	27.9	26.6
Sump Capacity (gal)	---	119	119	113

FM

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DATE		BY		FOR		A & A SHEET METAL PRODUCTS, INC.	
DO NOT SCALE				TOLERANCES			
SCALE: Not To Scale				SHEET NUMBER: 2 OF 2			

STANDARD FEATURES:

*DOOR MATERIAL: 18 GA
GALVANNEAL*

FRAME MATERIAL: 16 GA GALVANNEAL

*HONEYCOMB CORE FULL FLUSH DOOR PANELS,
80" IN HEIGHT, 1-3/4" THICK*

FIXED DOOR BOTTOM GASKET

*SLIDE BOLT AND DROP ROD AVAILABLE
ON INACTIVE DOOR PANEL OF DOUBLE
PANEL DOORS*

THRESHOLD SILL

*2" FRAME
AROUND DOOR*

*STEEL 4 1/2" x 4 1/2" ANTI-
FRICTION BEARING HINGES*



*BRUSHED CHROME PLATED STEEL,
AUTOMATIC LATCHING, BORED
LOCKSET
ORBITAL HANDLE- STANDARD
LEVER HANDLE- OPTIONAL
(EXTERIOR KEY/ INTERIOR BUTTON)*

OPTIONS:

PERIMETER WEATHER SEALS

SURFACE DOOR CLOSER

DOOR PANELS IN HEIGHTS UP TO 96"

CUSTOM SIZES AND PANEL CONFIGURATIONS

GENERAL INFORMATION:

*DESIGNED FOR USE IN INDUSTRIAL,
COMMERCIAL OR RESIDENTIAL
CONSTRUCTION PROJECTS*

*FOR INSTALLATION IN MASONRY,
STEEL STUD, OR WOOD STUD
BUILDING STRUCTURES*

*FINISHED WITH 1 COAT OF PRIMER AND
2 COATS OF HIGH SOLIDS URETHANE*

January 19, 2006
Project No. 03034

William B. Needelman, Planner
Planning and Development Department
Portland City Hall
389 Congress Street
Portland, Maine 04101

Re: Gulf of Maine Research Laboratory
Site Plan Review Exemption Application
Storage Sheds

Dear Bill:

Enclosed find a completed Application for Exemption From Site Plan Review for two storage sheds to be placed on site at the Gulf of Maine Research Facility at 350 Commercial Street. A site plan, as well as photographs are included to indicate the proposed locations for the sheds. Sample photographs of the sheds are included as well.

Dennis Jud, SMRT, has provided you with the required "itemized statement by a qualified professional" regarding the satisfaction of the exemption criteria.

Please contact me or Dennis if you have any additional questions.

Sincerely,



Shale Rosen
Gulf of Maine Research Institute.

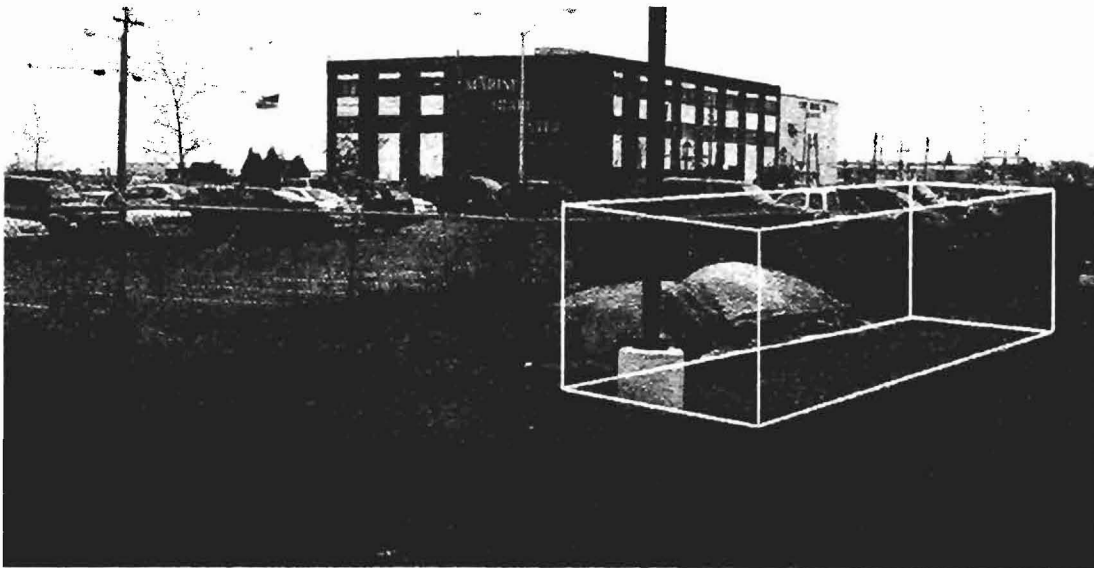
cc: Don Perkins, Gulf of Maine Research Institute
Dennis V. Jud, SMRT

The Gulf of Maine Research Institute requests exemption to site plan review for the placement of two storage buildings, one for preserved samples (marine organisms) and one for the short-term storage of hazardous waste (as a Small Quantity Generator GMRI is permitted to store hazardous waste for 180 days before it is taken offsite for disposal).

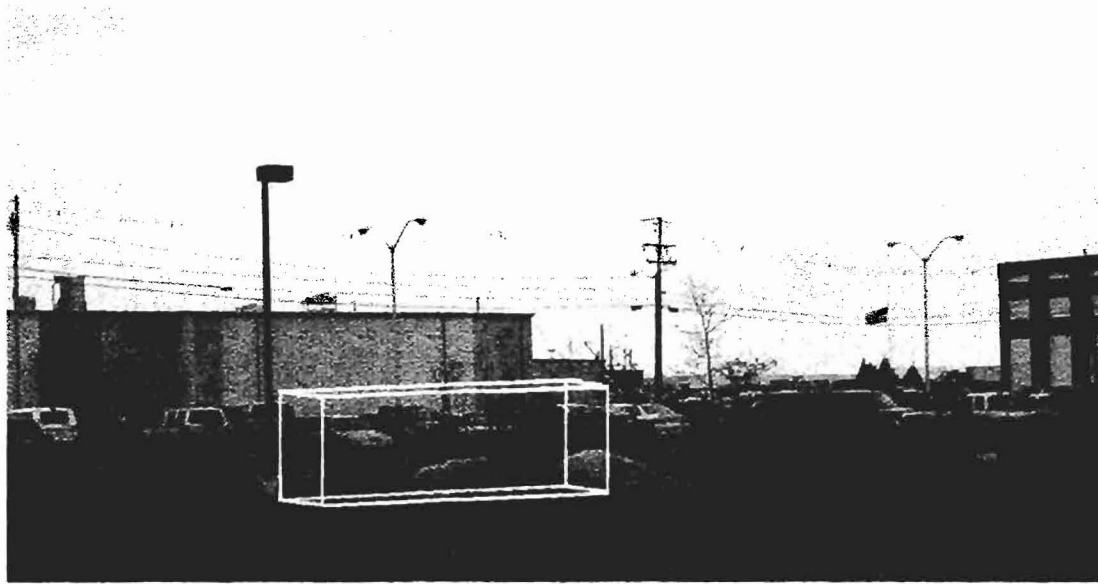
The proposed buildings meet all of the provisions in standards a-h of subsection 14-523 of the Portland City Code:

- Footprints are 208 and 35 square feet respectively
- No new curb cuts, driveways, or parking areas will be required
- Both buildings will be located adjacent to a one year old asphalt pad
- There will be no increase in parking requirements or additional traffic created
- No stormwater problems will be created
- Both proposed locations are both in areas that are screened from general view
- Utilities requirements (electricity only) can be supplied by the existing research laboratory's infrastructure

The proposed sample storage building is 8 feet deep by 26 feet long by 8 ½ feet high. The location proposed is near the north property boundary, adjacent to the Marine Trade Center's parking lot. This is a portion of the property currently used for deliveries to the Gulf of Maine Research Institute. The site would be graded and the building would be placed on a 10 foot by 28 foot concrete pad.

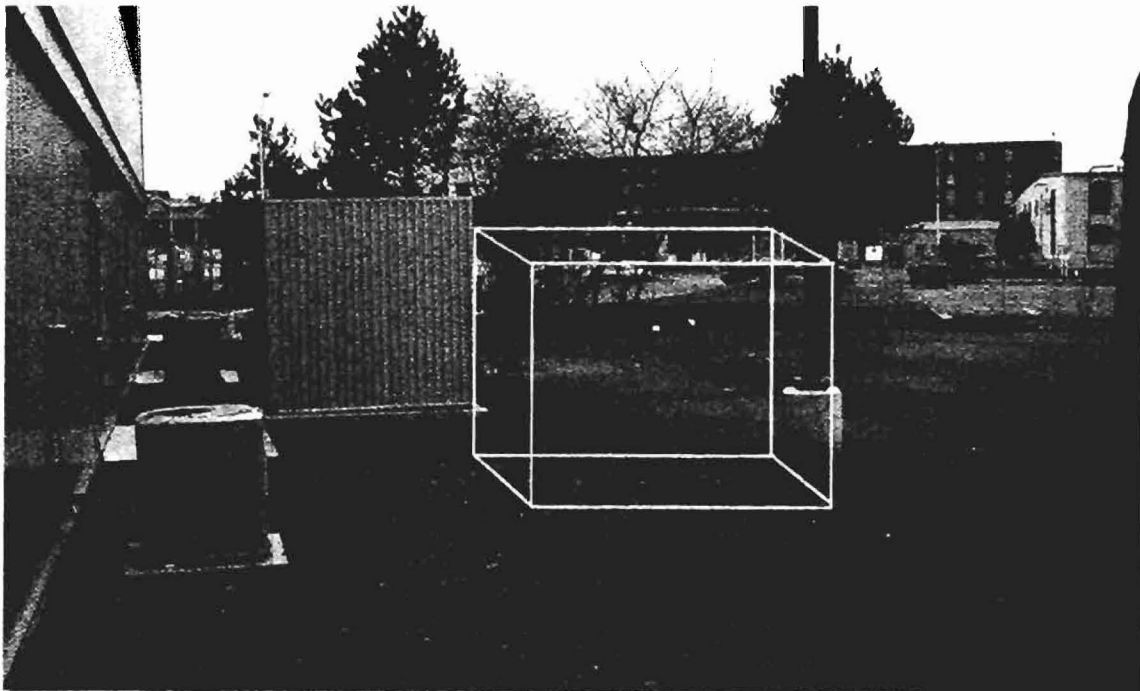


Proposed site for sample storage building, looking northeast



Proposed site for sample storage building, looking North.

The hazardous waste storage building would be 5 feet deep by 7 feet long by 8 ½ feet high. Specifications have been discussed with the Maine Department of Environmental Protection, and the proposed location is beyond the minimum setback from the nearest property boundary (50 feet). This location is inside a currently grassy area near the East side of the Research Institute's building. The site would be prepared by either pouring a 7 foot by 9 foot concrete pad or extending the asphalt apron an equal size and setting the building on it.



Proposed site for hazardous waste storage building, looking North

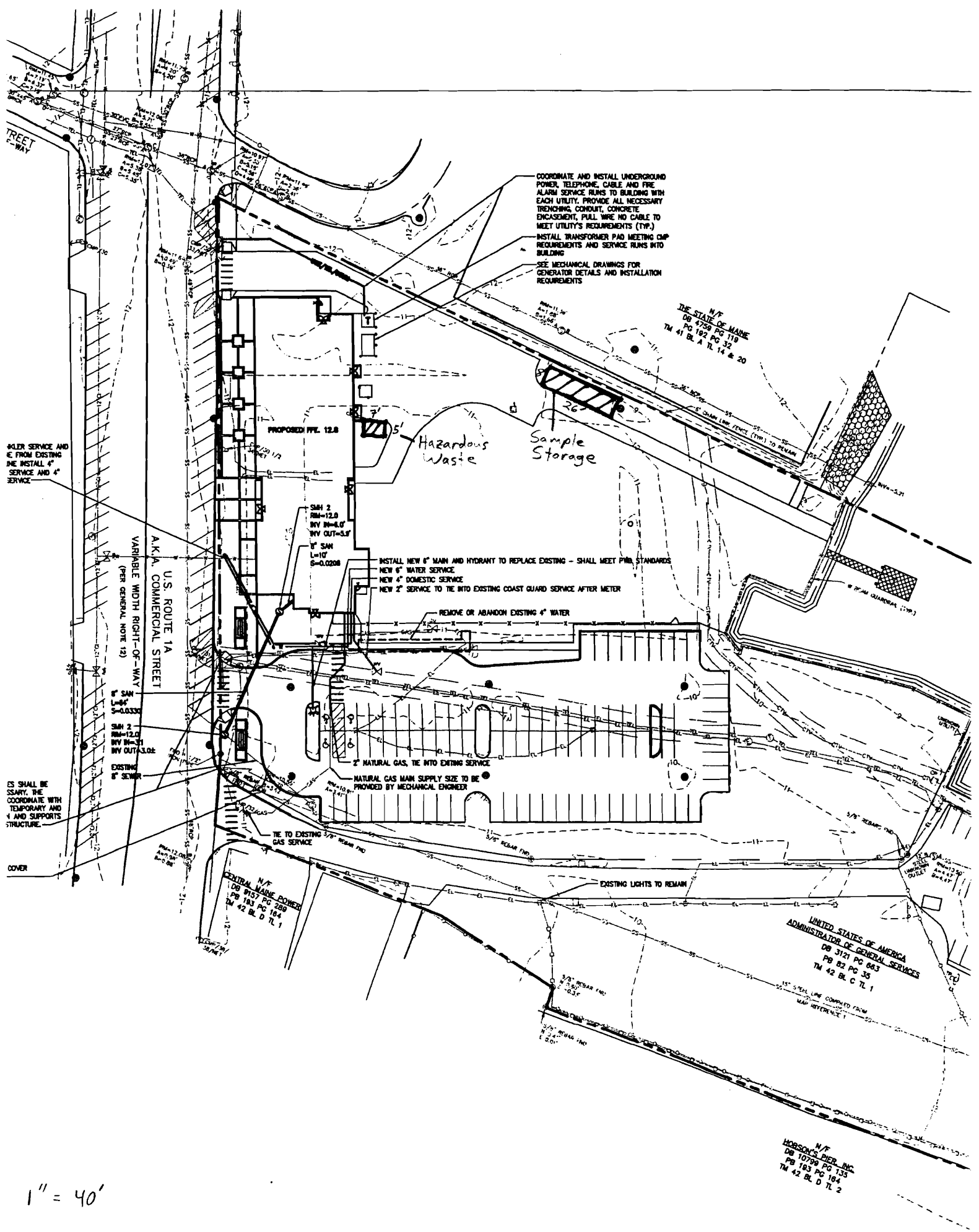
The buildings are delivered fully fabricated, and resemble steel shipping containers. They have received a 4-hour Factory Mutual System Approval fire rating, and are constructed with a sump capable of containing a spill that might occur inside. This sump raises the entrance to the buildings one foot above ground level. Power will be run in order to provide lights and heat, but water will not be run to either. The larger building (sample storage) will have a dry chemical fire suppression system and active exhaust system.



Manufacturer's picture of 7' X 5' building



Manufacturer's picture of 8' X 26' building



1" = 40'

City of Portland, Maine - Building or Use Permit

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

Permit No: 06-0816	Date Applied For: 06/01/2006	CBL: 042 C001001
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Location of Construction: 344 COMMERCIAL ST	Owner Name: GULF OF MAINE PROPERTIES I	Owner Address: PO BOX 7549	Phone:
Business Name:	Contractor Name:	Contractor Address:	Phone:
Lessee/Buyer's Name	Phone:	Permit Type: Additions - Commercial	

Proposed Use: Commercial/ Gulf Of Maine- Install 2 storage units 8'6"H x 7'D x 5' & 8'6"H x26' Wx 8' D	Proposed Project Description: Gulf Of Maine- Install 2 storage units 8'6"H x 7'D x 5' & 8'6"H x26' Wx 8' D
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Dept: Zoning **Status:** Approved **Reviewer:** Marge Schmuckal **Approval Date:** 06/22/2006
Note: **Ok to Issue:**

Dept: Building **Status:** Approved with Conditions **Reviewer:** Jeanine Bourke **Approval Date:** 11/14/2006
Note: Mike N. Did the initial review **Ok to Issue:**

- 1) Separate permits are required for any electrical, plumbing, or HVAC systems. Separate plans may need to be submitted for approval as a part of this process.
- 2) This permit approves only the storage containers, any additional work requires a separate permit

Dept: Fire **Status:** Approved with Conditions **Reviewer:** Cptn Greg Cass **Approval Date:** 06/22/2006
Note: **Ok to Issue:**

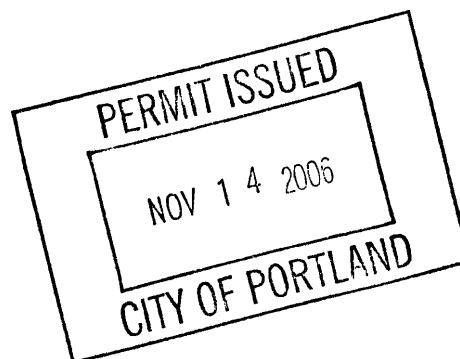
- 1) Hazardous storage areas shall be properly labeled

Comments:

11/14/2006-jmb: Received the construction permit from fire marshall, ok to issue

6/28/2006-mjn: Left a message with applicant regarding specific quantities and types of materials

6/29/2006-mjn: Spoke with State Fire Marshall, may need a State fire marshall permit, advised the applicant





APPLICATION FOR EXEMPTION FROM SITE PLAN REVIEW # 2006-005

Gulf of Maine Research Institute
Applicant

1/19/06
Application Date

350 Commercial St Portland ME 04104
Applicant's Mailing Address

Chemical Storage Containers
Project Name/Description

207 772-2321 (GARI)
Consultant/Agent/Phone Number

350 Commercial St
Address of Proposed Site

207 772-3846 (Dennis J. SART)

CBL: 2006-005

Description of Proposed Development:

Two separate chemical storage sheds to be located on the harbor side of the present laboratory building on flat concrete pad, one on 10' x 28' concrete pad. Electricity to both for lighting and heat. No water.

Please Attach Sketch/Plan of Proposal/Development

Criteria for Exemptions:
See Section 14-523 (4) on back side of form

- a) Within Existing Structures; No New Buildings, Demolitions or Additions
- b) Footprint Increase Less Than 500 Sq. Ft.
- c) No New Curb Cuts, Driveways, Parking Areas
- d) Curbs and Sidewalks in Sound Condition/Comply with ADA
- e) No Additional Parking/ No Traffic Increase
- f) No Stormwater Problems
- g) Sufficient Property Screening
- h) Adequate Utilities

Applicant's Assessment (Yes, No, N/A)	Planning Office Use Only
Yes, as planned in application	✓
Yes, total 313 sq ft	✓
Existing site has 2 curbs	✓
Yes	✓
Yes	✓
Yes	✓
Yes	✓
Yes	✓