

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK CITY OF PORTLAND

Please Read
Application And
Notes, If Any,
Attached

BUILDING INSPECTION

Permit Number: 031067

This is to certify that Gulf Of Maine Aquarium/Oceanet Associates
has permission to Build New 43,562 sq. Ft. Of Building and Warehouses.
AT 344 Commercial St 042 C001001

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

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

Notification of inspection must be given and written permission procured before this building or part thereof is leased or otherwise used-in. **NO OTHER NOTICES REQUIRED.**

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

OTHER REQUIRED APPROVALS

Fire Dept. [Signature]
Health Dept. _____
Appeal Board _____
Other _____
Department Name _____

[Signature] 12/23/05
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: 03-1067	Issue Date:	CBL: 042 C001001
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Location of Construction: 344 Commercial St	Owner Name: Gulf Of Maine Aquarium	Owner Address: 400 Commercial St	Phone: 207-772-2321
Business Name: n/a	Contractor Name: Ouellet Associates	Contractor Address: 56 Bibber Parkway Brunswick	Phone: 2077250100
Lessee/Buyer's Name n/a	Phone: n/a	Permit Type: Additions - Commercial	Zone: WCZ

Past Use: Vacant	Proposed Use: Commercial / Build New 43,562 sq. Ft. Office Building with Laboratories	Permit Fee:	Cost of Work: \$0.00	CEO District: 2
		FIRE DEPT: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied	INSPECTION: Use Group: A3/5 Type: 2c 12/22/03	

Proposed Project Description: Build New 43,562 sq. Ft. Office Building with Laboratories.	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: 09/02/2003	Zoning Approval
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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 # 2003-0086 Maj <input checked="" type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/> Date: <i>[Signature]</i> 9/24/03	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>[Handwritten notes: NA, exempt, approved for this project, signed]</i>		

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

Applicant: Gulf of Maine Research Bldg / 24/03 Date: 9/24/03

Address: 344 Commercial St C-B-L: 042-C-001

CHECK-LIST AGAINST ZONING ORDINANCE

Date - New Development # 03-1067

Zone Location - WCZ

Interior or corner lot -

Proposed Use/Work - office ^{MAINE} RESEARCH Laboratories under MAINE RESEARCH, education & Lab facilities

Sevage Disposal - City

Lot Street Frontage - None req.

Front Yard - None } Although should be setback a min of 5 feet from any pier line
Rear Yard - None }
Side Yard - None }

Projections -

Width of Lot - N/A

Height - 35' except within 200' of southern edge of commercial St -> maximum Bldg height is 50' for using, research, educ. Bldg - 49.5' scaled

Lot Area - No min lot size req. - 340, 470. 4 total parcel area

Lot Coverage/ Impervious Surface - 100% permitted

Area per Family - N/A

Off-street Parking - 50% of normal required than 92 total phase #1 Floor Area 241009.44
103.5 50% = 52.75
Pkg Spaces Req.

Loading Bays -

Site Plan - #2003-0006 MAJ

Shoreland Zoning Stream Protection - out of shoreland - specifically states Does NOT need to meet the 75' setback from HWM

Flood Plains - Panel 13 - Zone C



ARCHITECTURE
ENGINEERING
PLANNING

Date: November 10, 2003
Architect's Project No.: 03034

**ADDENDUM NO. 4
TO
CONTRACT DRAWINGS AND SPECIFICATIONS
FOR
GULF OF MAINE RESEARCH LABORATORY
Portland, Maine**

This addendum forms a part of the bidding and contract documents.

Bidders are required to acknowledge receipt of this addendum on their proposal. Failure to acknowledge all addenda may cause the bid to be considered not responsive to the invitation, which may require rejection of the bid.

PART I – QUESTIONS/ANSWERS/INFORMATION RELATING THE PROJECT:

These items provide supplemental information to the Contract without modification.

Part I-A – Attachments

None

Part I-B – Bidder Questions/Clarifications:

1. There is a plan to show what gets fireproofed however, there are a couple of details such as N11 & J11 on AE521: J1, J4, N11: AE522 which also indicate spray fireproofing on columns as typical. Could you please clarify. *RESPONSE: SF402 correctly shows those areas requiring fire protected columns and beams. Note that where fit of fire-protective spray is tight, rated gypsum board enclosures have been detailed. Note that with increased rating of stair enclosures, sprayed on fireproofing for steel supporting stairway walls must be two-hour. We now propose to use sprayed fireproofing only, and to furr out the walls for fit.*

PART II - MODIFICATIONS TO DRAWINGS AND MATERIAL SPECIFICATIONS:

Part II-A – Attachments.

The following items are attached to and are part of this Addendum. These items replace original items previously issued or are to be added to the Bidding and Construction Documents as indicated.

1. Sketches ADD4-C1, ADD4-SW1, ADD4-E1, ADD4-E2.

Date: November 10, 2003
Architect's Project No.: 03034

**ADDENDUM NO. 4
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CONTRACT DRAWINGS AND SPECIFICATIONS
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Portland, Maine**

Page 2 of 5

Part II-B – Revisions by Reference:

The drawings and specifications are hereby revised as follows:

REVISIONS TO DRAWINGS:

1. Drawing Sheet GI003. Add interior partition type: "X3 2-Hour Rated Partition - UL Design U412/U420. Two layers 5/8" type X gypsum board, 2.5" metal studs, sound batt insulation, two layers of 5/8" type X gypsum board. Provide UL Design U420 for chase wall as required to provide complete enclosure. Provide full height fire separation with UL deflection head track."
2. Drawing Sheet CP101. Revise plotted drawing sheet to reflect information provided in Add. 2:
 - A. ~~Change dimension of dumpster pad from 8' x 9' to 9' x 9'. (Superseded)~~
 - B. Add 5' - 0" high chain link fence continuous on the upland side of the existing guardrail from the existing Portland Fish Pier fence to the existing Coast Guard fence. Add correlating note: "11. Fence shall connect to existing fences in a secure fashion. Provide a 5' - 0" opening swing gate at the ramp and float location including latch with lock capability."
 - C. Locate the "6' sidewalk to property line" at L/9 to align with the existing gate in the Portland Fish Pier fence.
3. Drawing LP101: Revise plotted drawing sheet to reflect information provided in Add. 2: Add note in Planting Schedule regarding Ginkgo Bilobas as follows: "Ginkgo biloba (8) shall be "upright" in form and shall be asexually propagated from male specimens. Certification from a qualified nursery, documenting such propagation, including examples of prior success with this procedure, shall be required. Bare Root specimens may be acceptable if transported to the area a year in advance of installation, planted in proper soil mix off-site, maintained, root pruned and balled & burlapped per specifications and American Standards for Nursery Stock prior to being moved to the site and installed. If Bare Root specimens are intended to be procured, the approval of the Architect shall be required."
4. Drawing Sheet A-002.
 - A. Revise stair enclosure fire wall indication for stairs B and C on all floor levels to indicate two hour fire separation enclosures for stairs.
 - B. General Notes. Add: "2. Provide two layers of 5/8" gypsum board on interior side of Stair C exterior walls for future fire rating."
5. Drawing Sheet AE101, AE105, MH101, etc. Reverse the swing of door 104B to be right hand reverse.
6. Drawing Sheets AE101 and AE105, Corridor 105. Add second wall recess and second set of lunch box shelving and hooks to corridor west wall. Add second elevation reference "K12/AE221".
7. Drawing Sheet AE103, General Notes. Add: "11. Provide 8-12" deep adjustable shelves on brackets in rooms 306A, 339, 341, and 343. Provide one 12" deep fixed shelf and a full width cloak hanging pole in rooms 348, and 349."
8. Drawing Sheets AE311, AE312, AE313, AE314, AE315. Revise location of foundation

Date: November 10, 2003
Architect's Project No.: 03034

**ADDENDUM NO. 4
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CONTRACT DRAWINGS AND SPECIFICATIONS
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GULF OF MAINE RESEARCH LABORATORY
Portland, Maine**

Page 3 of 5

- insulation to be at foundation exterior wall side, deleting foundation insulation at interior of perimeter foundations. Stop top of insulation immediately below pavements, or 2" below finished earth grade as applicable and extend full thickness to bottom of foundation.
9. Drawing Sheet AE401. Revise stair enclosure partition types to be type X3. Revise stair enclosure fire rating to be two hour.
 10. Drawing Sheet AE520, Details N7, N14, J14, E11. Revise to show sprayed on fireproofing on columns. Furr walls as necessary to conceal fire proofing.
 11. Drawing Sheet AE522, Details N7, N14, J7, J11. Revise to show sprayed on fireproofing on columns. Furr walls as necessary to conceal fire proofing.
 12. Drawing Sheet AE611, Doors 112B, 152A, 212, 246, 314, 353, 403, and 405. Revise door rating to be 90 minutes.
 13. Drawing Sheet SB102, Note 2. Revise 12.74' to read 12.8'
 14. Drawing Sheet SB501, Detail A5. Revise depth of sump in elevator pit to be 2'-0".
 15. Drawing Sheet SF402, General Note 2. Revise note to read: "steel beams *and columns*".
 16. Drawing Sheets MH102 and MH103. Where 4" PVC underslab vent rises up thru the third floor – Room 331 – move the vent to the east to fall within the wall between Recept 331 and CIO Office 330.
 17. Drawing Sheet MP101 – Multi-Media Seawater Room 105 – Move thermostat from north wall to the south wall just west of the door frame.
 18. Drawing Sheets PL101, Note 2. Revise 12.74' to read 12.8'
 19. Drawing Sheet PL105 – Move FPHB outside Wet Workshop Room 157 north to align with wall between Wet Workshop 157 and Gear Room 154. Move compressed air outlet to room east wall.
 20. Drawing Sheet PL105 – Revise reference for Enlarged Plan at grid coordinates A-10 to be J9/PL501.
 21. Drawing Sheet SW103:
 - A. Add note: "6. The three pipes which run under the floor slab from Room 115 to Room 122 shall be supported by pipe hangers attached to the under-side of the slab."
 22. Drawing Sheet SW104:
 - A. Change elevation of FSW and TSW piping from "APPROX. INV. EL. 108'-0"" to read: "APPROX. INV. EL. 108'-6"".
 23. Drawing Sheet SW108. Delete detail "H – Seawater Riser Detail" and replace with detail "H – Seawater Riser Detail" as shown on attached sketch ADD4-SW1.
 24. Drawing Sheet EP101. Multi-Media Seawater Room 115 area.
 - A. Shift receptacle locations to accommodate revised door location.
 - B. Revise power outlets and conduits as shown in attached sketch E1.
 25. Drawing Sheet EL101. Multi-Media Seawater Room 115. Revise light switch location to be adjacent to revised door location.
 26. Drawing Sheet EL103. Boardroom 305. Locate light switches SDg and Sdf to vestibule south wall near other light switches.
 27. Drawing Sheet EY101. Revise data outlets as shown in attached sketch E2.

Date: November 10, 2003
Architect's Project No.: 03034

**ADDENDUM NO. 4
TO
CONTRACT DRAWINGS AND SPECIFICATIONS
FOR
GULF OF MAINE RESEARCH LABORATORY
Portland, Maine**

Page 4 of 5

28. Drawing Sheet EY102. Mens Room 207. Delete fire alarm strobe over mirror.
29. Drawing Sheet EY103. Womens Room 210 and Mens Room 211. Relocate fire alarm strobe device to west wall east of door.
30. Drawing Sheet EP601. Revise panel LP1D to reflect load changes at the 3 lab venture stations in the Multi-Media Classroom 104.

REVISIONS TO SPECIFICATIONS

1. Section 02100 – Site Preparation
 - A. Page 4, Part 3.5, Add: “The building pad preparation shall be completed in accordance with any recommendations set forth in the R.W. Gillispie Geotechnical Investigation reports completed for the project. This shall include, but is not limited to, stripping of overburden materials, subgrade preparation and proof-rolling when required, and minimization of disturbances to subgrade soils during the progress of work.”
2. Section 02511 – Asphaltic concrete paving
 - A. Delete Parts 1, 2, and 3 of this specification section in their entirety and replace with note: “Provide paving per Appendix A – Section 401-Hot Mix Asphalt Pavement.”
3. Section 02525 – Curbs and Sidewalks
 - A. Page 7, Part 3.8.D shall be deleted in its entirety.
 - B. Page 7, Part 3.9.B Revise: “Install 6” minimum thickness of lean concrete behind curbing sections at curb joints to minimize curb tipping.” to read: “The Granite curb shall be installed per the City of Portland Technical Standards, that require the use of a filter strip behind each joint and the filling of joints with CONPRO Set mix.”
4. Section 07410, Page 4.
 - A. Part 2.3A. Delete subparagraph 1.
5. Section 07620, Page 3, Part 2.4B1. Revise 26 oz. to read 16 oz.
6. Section 07811, Page 9, Part 3.7. Revise “1-hr.” to read: “2-hr.”, typ. two locations.
7. Section 09900, Page 12. Add 3.7:

“E. Exposed Structures/Mechanical: Provide the following finish system over exposed construction for ceilings:

 1. Eggshell Gloss, Self-Priming Modified Alkyd Finish: Two coats.
 - a. Tnemec Series 15 or equal by listed manufacturer.
 - b. Dry Film Thickness: 5 mil”
8. Specification Section 15142 – Seawater System Piping & Equipment
 - A. Page 4, Part 2.1.D.1. Delete paragraph “a.” and replace with:

“a. At a minimum each pipe run shall have a flange where the pipe enters a room and exits a room. In addition, the pipe shall have a flange, union or true union valve at least every 10 feet and at every direction change. Socket weld fittings may be used in between flanged fittings, unions or true union valves. Screwed fittings shall only be used where shown on the drawings.”
 - B. Page 6, Part 2.5, Add:

Date: November 10, 2003
Architect's Project No.: 03034

**ADDENDUM NO. 4
TO
CONTRACT DRAWINGS AND SPECIFICATIONS
FOR
GULF OF MAINE RESEARCH LABORATORY
Portland, Maine**

Page 5 of 5

- "D. All pipe hangers, support rods, fasteners, etc. for above ground and below ground seawater piping shall be manufactured from 316L stainless steel (or 316 stainless steel if 316L is not available) or fiberglass reinforced plastic (FRP) or a combination of these materials. The above references to other specification sections are to provide guidance in the hanger style, strength, spacing, non-metallic items such as pads, installation procedures for pipe hangers, etc. All pipe hangers shall be installed in accordance with manufacturer's instructions."
- C. Page 16, Part 2.10, Delete paragraph "A." and replace with:
 - "A. All fasteners such as nuts, bolts, studs, washers, etc. shall be 316L stainless steel. If 316L stainless steel is not available then 316 stainless steel may be used."
- D. Page 16, Part 2, Add 2.11:
 - "2.11 MECHANICAL IDENTIFICATION
 - A. Equipment and pipes shall be identified as specified in Section 15075, Mechanical Identification. Text and color for labels shall be as directed by Architect."
- E. Page 17, Part 3, Section 3.3.B, Delete paragraph "2." Replace with:
 - "2. At a minimum each pipe run shall have a flange where the pipe enters a room and exits a room. In addition, the pipe shall have a flange, union or true union valve at least every 10 feet and at every direction change. Socket weld fittings may be used in between flanged fittings, unions or true union valves. Screwed fittings shall only be used where shown on the drawings."

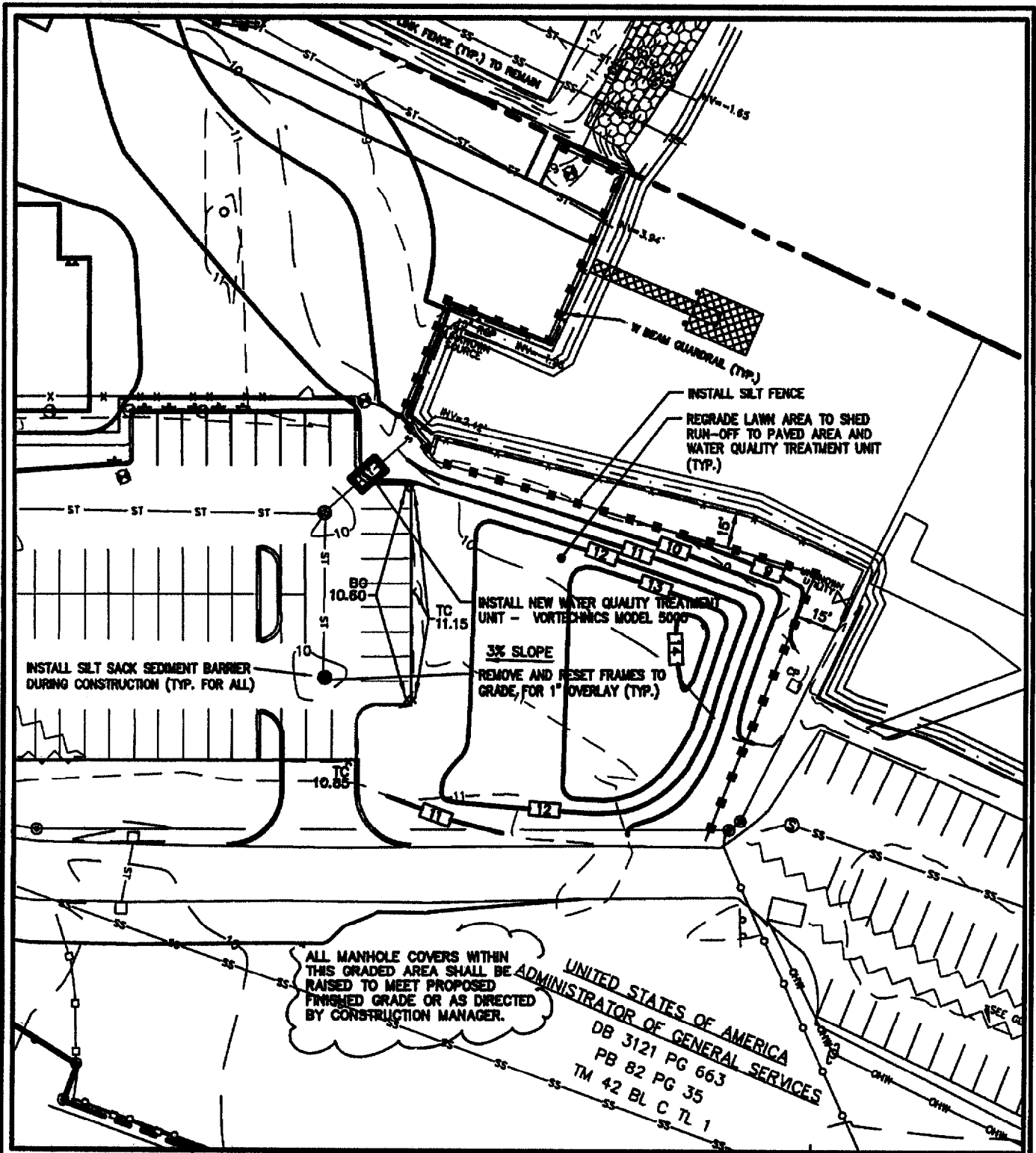
END OF ADDENDUM NO. 4

Issued by SMRT, Inc.

David Lay
Project Manager

cc: Ouellet Associates, Inc. for distribution to document holders, Don Perkins, Mark Jordan, Steve Bushey, Steve Dangermond, DVJ, DRL, ADB, JPP, DBR, Stick Set, File 31

This addendum consists of 9 - 8.5" x 11" sheets.



ALL MANHOLE COVERS WITHIN THIS GRADED AREA SHALL BE RAISED TO MEET PROPOSED FINISHED GRADE OR AS DIRECTED BY CONSTRUCTION MANAGER.

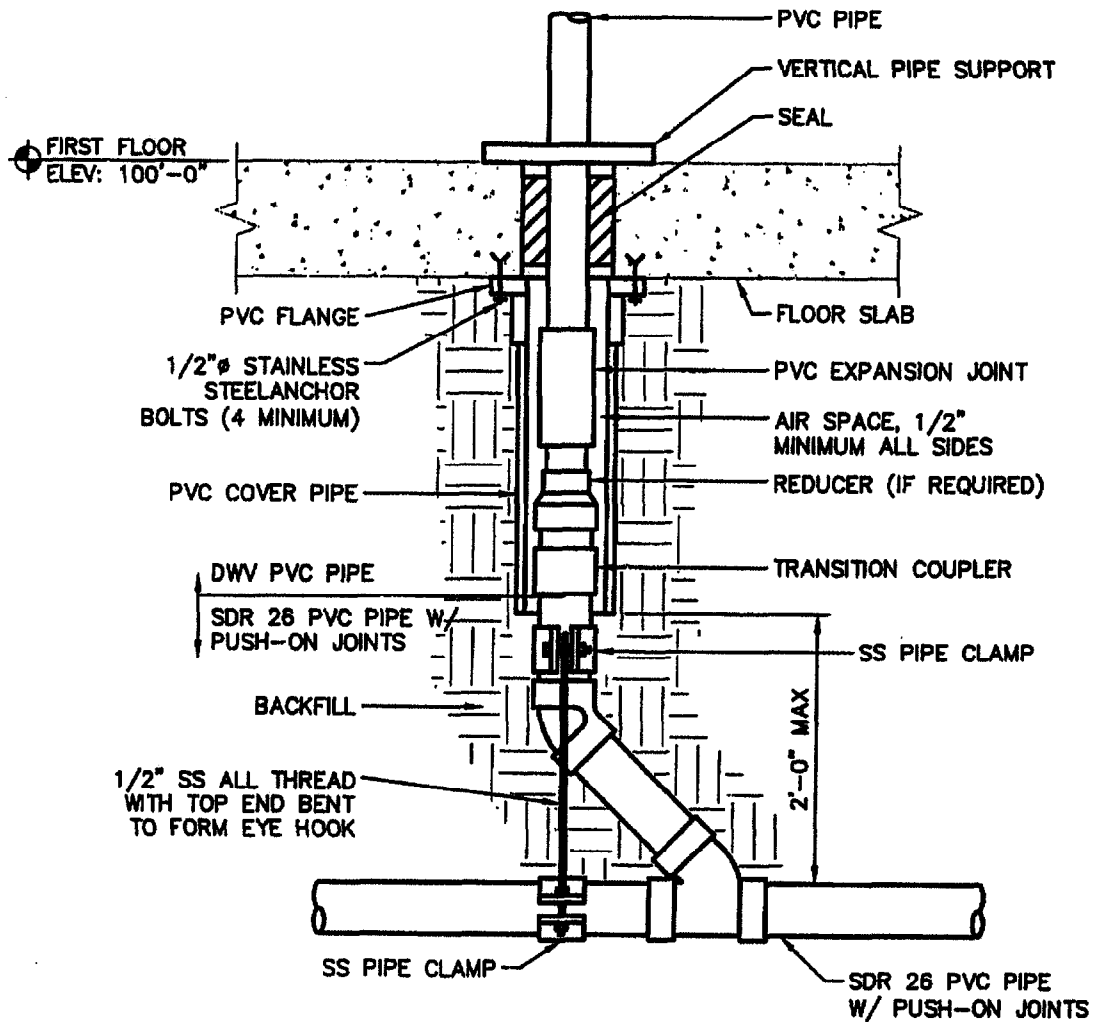
UNITED STATES OF AMERICA
 ADMINISTRATOR OF GENERAL SERVICES
 DB 3121 PG 663
 PB 82 PG 35
 TM 42 BL C TL 1



ARCHITECTURE ENGINEERING PLANNING
 SMART
 144 Fore Street/P.O.Box 618 PORTLAND, MAINE 04104
 tel. (207) 772-3846 / fax. (207) 772-1070

PROJECT: THE GULF OF MAINE RESEARCH INSTITUTE
 SUBJECT: REGRADING REVISIONS TO CG101

SCALE:	1"=40'
CAD FILE:	CAD#
PROJECT No.	03034
REF. SHEET:	CG101-03034
PM:	DRL
A/E:	A/E
DATE:	11/6/03
	ADD-4
	C-1



H SEAWATER RISER DETAIL
 SW114 SCALE: NTS



ARCHITECTURE ENGINEERING PLANNING

SMRT

144 Fore Street/P.O. Box 618 PORTLAND, MAINE 04104
 tel. (207) 772-3846 / fax. (207) 772-1070

REF: SW108

PROJECT No. 03034

PROJECT: THE GULF OF MAINE RESEARCH INSTITUTE

PM: DRL

ADD-4

REVISED DETAIL H/SW108

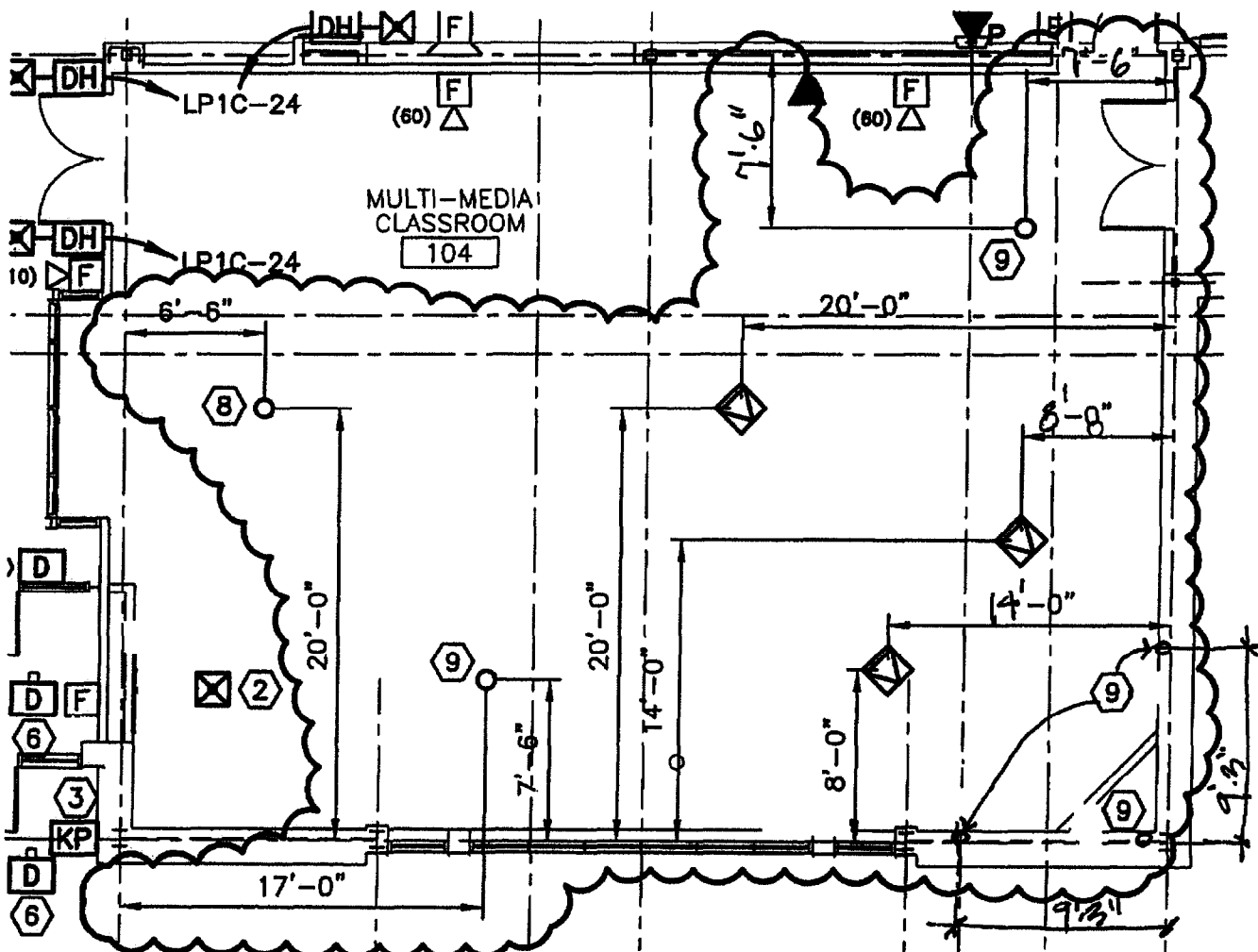
11.9.03

SW1

KEYED NOTES:

⑧ PROVIDE (2)-2" CONDUITS BETWEEN SCHOOLING TANK AND EQUIPMENT RM. 202

⑨ PROVIDE (1)-1" CONDUIT BETWEEN LAB VENTURE STATION AND EQUIPMENT RM. 202



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ARCHITECTURE ENGINEERING PLANNING

SMART

144 Fore Street/P.O. Box 618 PORTLAND, MAINE 04104
tel. (207) 772-3846 / fax. (207) 772-1070

SCALE: 1/8" = 1'-0"

CAD FILE: EY101-03034

PROJECT No. 03034

REF. SHEET: EY101

PM: DRL

ADD-4

A/E: JPP

E-2

DATE: 11-10-03

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PROJECT:

THE GULF OF MAINE
RESEARCH INSTITUTE

SUBJECT:

FIRST FLOOR
SYSTEMS PLAN



ARCHITECTURE
ENGINEERING
PLANNING

Memo

Date: December 19, 2003
To: *Michael J. Nugent FAX 207-874-8716*
From: David Lay
Job #: Gulf of Maine Research Institute
Re: Building Code Questions

I have researched the issues you mentioned, and can report the following:

1. **Sprayed-on Fireproofing:** We have added special inspections to the schedule as you have requested. Note that our spec. section 07811 page 8 identifies the extent of testing required for this product. Note also that section 01400 Quality Requirements also identifies general special inspection performance requirements.
2. **Glazing in Atrium Windows:** We have designed windows at the atrium to comply with 404.5 exception 2.1, however we missed calling for tempered or laminated glass, and so will make sure that it is installed as such.
3. **Mechanical Room 401 Egress:** I believe that you have referred to 1010.2 in your question, noting that two exits from this level are required. Based upon Table 1008.1.2, my occupant load calculation shows to be 2, which is logically "500 or less." I am compliant with all travel distances, and the room is not required to have more than one exit per Table 1017.2. Thus, the room does not require a second exit, but the floor may.
I can find no other text within this code applicable to this issue. I ask that an interpretation be given by the official having jurisdiction that the intent of the code is met by our design for what is an unoccupied space. Life safety concerns are reasonably met with the singular stair as shown to the machine room. In support of this request, I refer you to NFPA 101 Section 7.12.2 which states: "Stories used exclusively for mechanical equipment, furnaces, or boilers shall be permitted to have a single means of egress where the travel distance to an exit on that story is not in excess of the common path of travel limitations of 7.12.1."

Thank you.

David Lay
Copy: Don Perkins, File 22

144 Fore Street
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101-68

SAFETY TO LIFE FROM FIRE IN BUILDINGS AND STRUCTURES

SECTION 7.11 SPECIAL PROVISIONS FOR OCCUPANCIES WITH HIGH HAZARD CONTENTS*(See Section 6.2.)*

7.11.1* Where the contents are classified as high hazard, exits shall be provided and arranged to permit all occupants to escape from the building or structure or from the hazardous area thereof to the outside or to a place of safety with a travel distance of not more than 75 ft (23 m), measured as required in 7.6.2.

Exception: This requirement shall not apply to storage occupancies as otherwise provided in Chapter 42.

7.11.2 Egress capacity for high hazard contents areas shall be based on 0.7 in./person (1.8 cm/person) for stairs or 0.4 in./person (1.0 cm/person) for level components and ramps in accordance with 7.3.3.1.

7.11.3 Not less than two means of egress shall be provided from each building or hazardous area thereof, unless rooms or spaces do not exceed 200 ft² (18.6 m²), have an occupant load not exceeding three persons, and have a travel distance to the room door not exceeding 25 ft (7.6 m).

7.11.4 Means of egress, for other than rooms or spaces that do not exceed 200 ft² (18.6 m²), have an occupant load not exceeding three persons, and have a travel distance to the room door not exceeding 25 ft (7.6 m), shall be arranged so that there are no dead ends in corridors.

7.11.5 Doors serving high hazard contents areas with occupant loads in excess of five shall be permitted to be provided with a latch or lock only if the latch or lock is panic hardware or fire exit hardware complying with 7.2.1.7.

SECTION 7.12 MECHANICAL EQUIPMENT ROOMS, BOILER ROOMS, AND FURNACE ROOMS

7.12.1 Mechanical equipment rooms, boiler rooms, furnace rooms, and similar spaces shall be arranged to limit common path of travel to a distance not exceeding 50 ft (15 m).

Exception No. 1: A common path of travel not exceeding 100 ft (30 m) shall be permitted in the following locations:

(a) *In buildings protected throughout by an approved, supervised automatic sprinkler system in accordance with Section 9.7*

(b) *In mechanical equipment rooms with no fuel-fired equipment*

(c) *In existing buildings*

Exception No. 2: In an existing building, a common path of travel not exceeding 150 ft (45 m) shall be permitted if all of the following criteria are met:

(a) *The building is protected throughout by an approved, supervised automatic sprinkler system installed in accordance with Section 9.7.*

(b) *No fuel-fired equipment is within the space.*

(c) *The egress path is readily identifiable.*

Exception No. 3: This requirement shall not apply to rooms or spaces in existing health care occupancies complying with the arrangement of means of egress provisions of 19.2.5 and the travel distance limits of 19.2.6.

7.12.2 Stories used exclusively for mechanical equipment, furnaces, or boilers shall be permitted to have a single means of egress where the travel distance to an exit on that story is not in excess of the common path of travel limitations of 7.12.1.

SCHEDULE OF SPECIAL INSPECTIONS

Project: Gulf of Maine Research Institute

Project Number: 03034

Page 1 of 5

MATERIAL/ACTIVITY	ITEM	SERVICE	APPLICABLE TO THIS PROJECT				
			EXTENT (All, Sample, Other, None)	COMMENTS	AGENT #	DATE COMPLETED	REV #
STRUCTURAL STEEL - Fabrication NOTE: SER may waive Fabricator shop inspection if Fabricator is currently Certified through the AISC Quality Certification Program.	1.1a	Review Fabricator QA/QC procedures manual.	One shop inspection required.				
	1.1b	Review Fabricator QA/QC procedures implementation and conformance.	One shop inspection required. Visual inspection of shop conformance.				
	1.1c	Review material certificates of compliance (bolts, nuts, washers, structural steel and weld filler material).	Verify that certificates of compliance have been approved.				
	1.1d	Review welder certification.	Obtain certification numbers for all welders and all steel.				
	1.1e	Review Shop Drawings.	Verify Approval.				
	1.1f	Review structural steel and fabrication for conformance to approved shop drawings.	Verify member sizes, piece marks and connection details match approved shop drawings. Visually inspect bolts and welds.				
	1.1g	Review welding of seismic-resisting systems in Category C buildings.	Magnetic particle test 5% of all welds. Ultrasonic test 5% of all penetration welds.				
STRUCTURAL STEEL - Erection	1.2a	Review welder certification.	Obtain certification numbers for all welders and all steel.				
	1.2b	Review materials certificates of compliance (bolts, nuts, washers, and weld filler material).	Verify that certificates of compliance have been approved.				
	1.2c	Review structural steel and erection for conformance to approved shop drawings.	Verify all member sizes, piece marks and connection details.				
	1.2d	Inspect field bolting installation in accordance with Section 9 of RCSC Specification for Structural Joints Using ASTM A325 or A490 Bolts.	Visually inspect all bolts.				
	1.2e	Review shear connections.	Visually inspect all.				

All Structural Inspections have been completed in accordance with applicable BOCA requirements.

Special Inspector _____ Date _____

SCHEDULE OF SPECIAL INSPECTIONS

Project: Gulf of Maine Research Institute

Project Number: 03034

Page 2 of 5

MATERIAL/ACTIVITY	ITEM	SERVICE	APPLICABLE TO THIS PROJECT				
			EXTENT (All, Sample, Other, None)	COMMENTS	AGENT #	DATE COMPLETED	REV #
STRUCTURAL STEEL – Erection (continued)	1.2g	Review Bracing connections.	Visually inspect all.				
	1.2h	Review Column splices.	Visually inspect all.				
	1.2i	Review base metal testing for >1.5".	Ultrasonic testing of all welds per AWS D1.1.				
STEEL JOIST – Fabrication NOTE: SER may wave Fabricator shop inspection if Fabricator is currently a member of the Steel Joist Institute.	1.3a	Review Fabricator QA/QC procedures manual.	One shop inspection required.				
	1.3b	Review Fabricator QA/QC procedures implementation and conformance.	One shop inspection required. Visual inspection of shop conformance.				
	1.3c	Review material certificates of compliance (bolts, nuts, washers, structural steel and weld filler material).	Obtain copies of mill certificates for all structural steel, bolts and weld material.				
	1.3d	Review welder certification.	Obtain certification numbers for all welders and all steel.				
	1.3e	Review connections. Visually inspect bolts and welds.	Verify member sizes, piece marks and connection details match approved shop drawings.				
STEEL JOIST– Erection	1.4a	Review welder certification.	Obtain certification numbers for all welders and all steel.				
	1.4b	Review materials certificates of compliance (bolts, nuts, washers, and weld filler material).	Obtain copies of mill certificates for all structural steel, bolts and weld materials.				
	1.4c	Review steel joist and erection for conformance to approved shop drawings.	Verify all member sizes, piece marks and connection details.				
	1.4d	Review joist bearing connection, bearing length, and bridging.	Visually inspect all.				
	1.4e	Verify installation of joist reinforcement.	Where concentrated loads are installed over joist chords, verify installation of reinforcement.				

All Structural Inspections have been completed in accordance with applicable BOCA requirements.

Special Inspector _____ Date _____

SCHEDULE OF SPECIAL INSPECTIONS

Project: Gulf of Maine Research Institute

Project Number: 03034

Page 3 of 5

MATERIAL/ACTIVITY	ITEM	SERVICE	APPLICABLE TO THIS PROJECT			
			EXTENT <small>(All, Sample, Other, None)</small>	COMMENTS	AGENT #	DATE COMPLETED
SECONDARY / MISC STRUCTURAL STEEL	1.5a	Review stair connections.	Visually inspect all.			
	1.5b	Review girt connections.	Visually inspect all.			
	1.5c	Review steel deck shop drawings.	Verify approval			
	1.5d	Review welder certification.	Obtain certification numbers for all welders.			
	1.5e	Verify number, type and location of steel deck connection to framing and side lap fasteners.	Visually inspect all.			
	1.5f	Review lintel connections/installation.	Visually inspect all. Verify member size and bearing length.			
	1.5h	Review details of steel frames.	Visually inspect all.			
SECTION 2 CONCRETE CONSTRUCTION (BOCA 1705.3)						
CONCRETE MATERIALS	2.1a	Review mix design.	Verify approval of all mixes intended for use.			
	2.1b	Review reinforcement grade.	Inspect identifying marks on reinforcing steel.			
	2.1c	Review submittals.	Verify acceptance of propriety products and reinforcing steel shop drawings. Review requirements of reinforcing steel on placement drawings.			
REINFORCING AND PRESTRESSING STEEL	2.2a	Inspect condition and placement of reinforcing steel.	All reinforcing steel at walls, spread footings, columns and beams and column piers. Check prior to each concrete placement.			
FORMWORK	2.3a	Verify acceptability of substrate.	Prior to each concrete placement.			
	2.3b	Verify dimensions and materials acceptability.	Prior to each concrete placement.			
EMBEDMENTS	2.4a	Inspect installation of anchor bolts, masonry dowels and other embedded items.	Inspect for each concrete placement.			
CONCRETE OPERATIONS	2.5a	Field-testing of concrete slump, temperature, and air content.	All concrete placements.			

All Structural Inspections have been completed in accordance with applicable BOCA requirements.

Special Inspector _____ Date _____

DEC. 19 ' 03 (SAT) 17:14 COMMUNICATION No: 28 PAGE 4

12/19/2003 16:12 FAX 2077727346 SMRT, INC. 2nd Floor 004/007

SCHEDULE OF SPECIAL INSPECTIONS

Project: Gulf of Maine Research Institute

Project Number: 03034

Page 4 of 5

MATERIAL/ACTIVITY	ITEM	SERVICE	APPLICABLE TO THIS PROJECT			
			EXTENT (All, Sample, Other, None)	COMMENTS	AGENT #	DATE COMPLETED
	2.5b	Take concrete cylinder samples and perform compressive strength test.	All concrete placements.			
	2.5c	Observe concrete placement.	Inspect placement procedures at all concrete placements.			
	2.5d	Observe concrete curing technique and temperature.	Once daily when air temperature is above 32°F. Twice daily when temperature is below 32°F.			
PRESTRESSING OPERATIONS	2.6a	Observe application of prestressing force for compliance with ACI 318 Sec. 18.18.				
	2.6b	Observe grouting of bonded prestressing tendons in Category "C" seismic resisting systems.				
ELEVATED CONCRETE	2.9a	Inspect placement of elevated concrete for compliance with contract documents.	Visually inspect all placement and curing.			
SECTION 6 - PILE FOUNDATIONS (BOCA 1705.8)						
MATERIALS	6.1a	Review certificates of compliance for piles.	Verify size and grade.			
	6.1b	Review submittals for all proprietary products.	Verify approval.			
	6.1c	Review welder certification.	Obtain certificate numbers for all welders.			
INSTALLATION	6.2a	Inspect pile load tests.	Monitor testing in accordance with approved procedures.			
	6.2b	Inspect pile driving.	100% of piles. Maintain records in accordance with project specification.			
	6.2c	Inspect welding.	Visually inspect all welds. Perform ultrasonic testing on 5% of penetration welds.			
SECTION 7 - SPRAYED-ON FIREPROOFING						
MATERIALS	7.1	Review UL design for materials proposed and for required thicknesses.	Verify design for columns and beams, each size protected.			
INSTALLATION	7.2a	Measure thickness of spray-on on fireproofing.	Provide measurements from a sample of 25 percent of structural members, taking 9 measurements at a single cross section for beams or girders, 7 measurements of a single cross section for joists or trusses, and 12 measurements for a single cross section for columns per ASTM E605.			
	7.2b	Measure density of material per ASTM E606 or alternative as specified.	Provide same frequency as indicated for thickness.			

All Structural Inspections have been completed in accordance with applicable BOCA requirements.

Special Inspector _____ Date _____

12/19/2003 16:12 FAX 2077727348

SMART, INC. 2ND FLOOR

005/007

DEC. 19 ' 03 (SAT) 17:14 COMMUNICATION No: 28 PAGE. 5

SCHEDULE OF SPECIAL INSPECTIONS

Project: Gulf of Maine Research Institute

Project Number: 03034

Page 5 of 5

MATERIAL/ACTIVITY	ITEM	SERVICE	APPLICABLE TO THIS PROJECT				
			EXTENT (All, Sample, Other, None)	COMMENTS	AGENT #	DATE COMPLETED	REV #
	7.2c	Test bond strength of materials per ASTM E736.	Provide same frequency as indicated for thickness.				

DEC 19 '03 (SAT) 17:15

COMMUNICATION No: 28

PAGE: 6

12/19/2003 16:13 FAX 2077727348

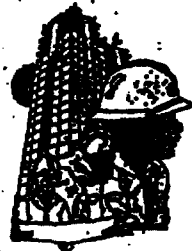
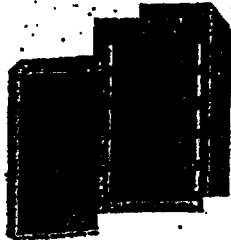
SMRT, INC. 2nd Floor

008/007

All Structural Inspections have been completed in accordance with applicable BOCA requirements.

Special Inspector _____

Date _____



**CITY OF PORTLAND
BUILDING CODE CERTIFICATE**
389 Congress St., Rm 315
Portland, ME 04101

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

FROM: PAUL STEVENS

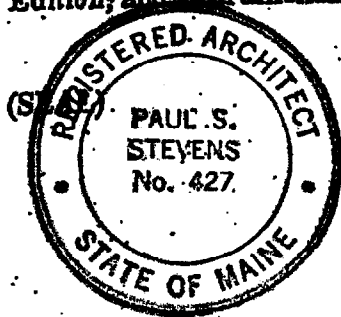
RE: Certificate of Design

DATE: 26 AUGUST, 2003

These plans and/or specifications covering construction work on:

THE GULF OF MAINE RESEARCH
LABORATORY

Have been designed and drawn up by the undersigned, a Maine registered architect/engineer according to the BOCA National Building Code/1999 Fourteenth Edition, and local amendments.



Signature [Handwritten Signature]

Title PRINCIPAL

Firm SMRT, INC.

Address 144 FORE ST./P.O. BOX 68
PORTLAND, ME 04104

As per Maine State Law:

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

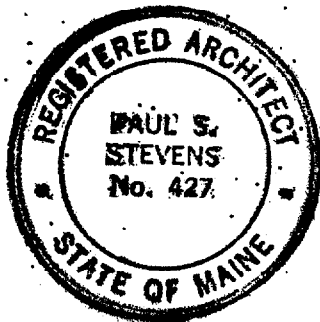


CITY OF PORTLAND
ACCESSIBILITY CERTIFICATE

Designer: PAUL STEVENS
Address of Project: 350 COMMERCIAL ST.
Nature of Project: OFFICE & LABORATORY
Date: 26 AUGUST 2003

The technical submissions covering the proposed construction work as described above have been designed in compliance with applicable referenced standards found in the Maine Human Rights Law and Federal Americans with Disability Act.

(SEAL)



Signature: [Handwritten Signature]
Title: PRINCIPAL
Firm: SMRT, INC.
Address: 144 FOLEY ST. / PO BOX 618
PORTLAND, ME 04104
Telephone: 207 772-9846

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

Permit No: 03-1067	Date Applied For: 09/02/2003	CBL: 042 C001001
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Location of Construction: 344 Commercial St	Owner Name: Gulf Of Maine Aquarium	Owner Address: 400 Commercial St	Phone: 207-772-2321
Business Name: n/a	Contractor Name: Ouellet Associates	Contractor Address: 56 Bibber Parkway Brunswick	Phone: (207) 725-0100
Lessee/Buyer's Name: n/a	Phone: n/a	Permit Type: Additions - Commercial	

Proposed Use: Commercial / Build New 43,562 sq. Ft. Office Building with Laboratories	Proposed Project Description: Build New 43,562 sq. Ft. Office Building with Laboratories.
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Dept: Zoning **Status:** Approved with Conditions **Reviewer:** Marge Schmuckal **Approval Date:** 09/24/2003

Note: 9/8/03 I talked to Bill Needleman - the site plan can not be signed off yet - they still need to give the City easement language and show twenty (20) more parking spaces - I can't review until I get that info. 9/22/03 got the ok from Bill N. To sign off **Ok to Issue:**

- 1) Separate permits shall be required for any new signage.
- 2) This permit is being approved on the basis of plans submitted. Any deviations shall require a separate approval before starting that work.

Dept: Building **Status:** Pending **Reviewer:** **Approval Date:** **Ok to Issue:**

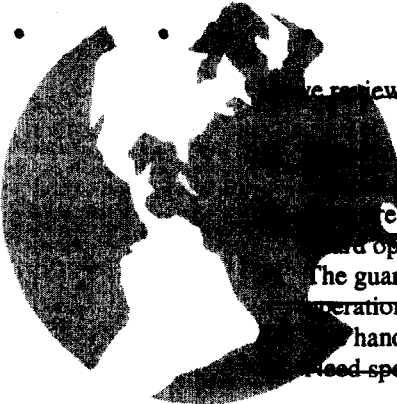
Dept: Fire **Status:** Pending **Reviewer:** **Approval Date:** **Ok to Issue:**

Comments:
09/03/2003-gg: Needs to have esimated cost and come back with payment!!

389 Congress St.Rm 315
Portland, ME 04101
Phone: (207)874-8700
Fax: (207)874-8716

To: David Lay **From:** Mike Nugent
Fax: 772-1070 **Date:** December 22, 2003
Phone: 772-3846 **Pages:** 1
Re: 340 Commercial St.

Urgent For Review Please Comment Please Reply Please Recycle



I have reviewed the submissions for Permit #031067 and have the following questions/comments:

1. dimensional detail for the alternating tread stair that shows treads risers width
and guards, please look at Section 1014.6.6 and 1022.0.

2. Are you classifying the use group of the 4th floor (I assume you are using the openings in
and option in Secion 1021.3)?

3. If the guards are removable in a portion of this area, I'd like to talk about this from an
operations standpoint.

4. Handrail in fig. E5 on page AE402 is 32", (must be 34")

5. Need specs on the smoke removal system specs for the atrium.



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