

132-148 Auburn St. - 1st Lutheran Church - Roof - Plank

July 29, 1959

Mr. Maurice J. Rhude, Chief Engineer
Unit Structures, Inc.
Foshigo, Wisconsin

cc to: Paul B. McLellan Company
52 Marginal Way
cc to: Spencer-Hilliard & Associates, Inc.
159 Front St., So. Portland
cc to: Mr. Herman C. Leber, Box 6, Swampscott, Mass.

Dear Mr. Rhude:

This letter is direct to you rather than go through the contractor in order to save time. With reference to your letter to Paul B. McLellan Company of July 13th, Inspector of Buildings Sears is agreeable to accepting your statement of design for the glued, laminated arches although not strictly in accordance with our usual form; and he will also accept your Fabricator's Certificate - - AITC Form GFI - - as the "inspection certificate by a generally recognized and approved inspection agency" stipulated in our standard, this to be filed here as soon as possible after the fabrication of the arches.

We are not clear as to the long-span decking, however, and will appreciate more information promptly, either direct with copy to the contractor or through the contractor as you may prefer.

1. It is noted that the Forest Products tests were made 7 years ago; were made on 4-inch plank or western red cedar instead of the 1-inch inland white fir presently involved (from examination of your brochure 19b-3, it appears that the cedar has less strength than any of the other species, so we are not raising the question of difference of species; and the conclusions are based on 30 lbs. per square foot live load as compared with the 40 lbs. applicable in this case. To be sure the maximum spans in the church involved are only about 11 feet; but I would like to find a more consistent basis than the above to satisfy the requirements of our Code for "written report of tests and conclusions therefrom" - - so you will not be delayed in shipping and the contractor will not have his schedule upset.

2. Our standard requires that first and last members of the panels be continuous between supports. Though not specified in your brochure, no doubt you will care for this since Fig. 1 in the test data shows that condition.

3. Our standard and your specification of seven years ago in Appendix B of the test data concur in providing that no unsupported end joint shall be less than 4 feet from a similar joint in an adjacent piece with at least four intervening pieces between such unsupported joints in line. Your brochure of 1959 seems to stipulate a minimum of only 2 feet between joints in adjacent pieces and a minimum of only two intervening pieces between joints in line.

4. Our standard contains the provision that no end joint between supports shall occur within less than 2 feet of a similar joint in the piece next beyond an adjacent piece on either side. There is no mention of this detail in your brochure but Fig. 1 of Appendix B is consistent with this stipulation.

Mr. Maurice J. Smith

July 25, 1930

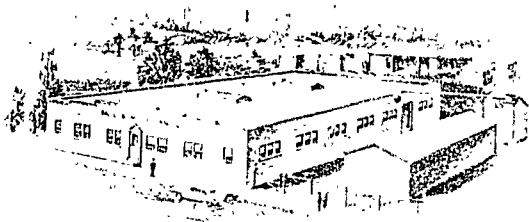
5. Please advise quickly about these discrepancies, giving the contractor the same information. Probably you have a copy of our letter to architect and contractor of June 11th. In the last paragraph we allude to former criticisms of our standards with a request that any criticisms now should be called promptly to the attention of Inspector of Buildings here. It is to be noted in what that he is bound by the standards given to him without substantial departure thereon. Any change in the standards which he might wish to recommend to our Board of Standards would require considerable time to reach a decision -- delays to which the contractor should not be subjected.

Presumably the last paragraph of your letter of July 19th is to be taken to mean that besides the certificate as to materials etc. of the arches, you will see to it that certificate relating to the work is filed here before the decking is shipped, satisfying (Paragraph 6) of our standard.

Very truly yours,

Barren McDonald
Acting Deputy Inspector of Buildings

MS:km



OFFICE & MILL - 52 MARGINAL WAY

PAUL B. McLELLAN CO.

General Contractors

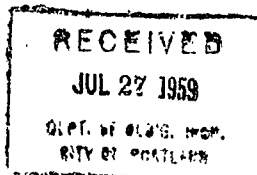
MILL AND CABINET WORK

PORTLAND 3, MAINE

TELEPHONE 2-5951

July 24, 1959

Inspector of Buildings
City of Portland
City Hall, Portland, Me.



Subject: First Lutheran Church, Portland, Maine

Dear Sir:-

In accordance with your letter of June 26, 1959 relative to Certificates of Design for the laminated arches at the subject building we are enclosing herewith the following data received from Unit Structures, Inc.

1. Copy of letter of transmittal from Unit Structures, Inc.
2. Notarized Certificate of Design.
3. Design Data for arches.
4. Unit Structures, Inc. Brochure No. 19B-3
5. Load Tests conducted by the United States Department of Agriculture.
6. Inspection Manual of the American Institute of Timber Construction.

We trust that the above material will furnish you with the information which you desired.

Very truly yours,

PAUL B. McLELLAN CO.

Stuart H. Bowdoin
Engineer

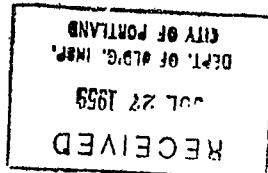


UNIT STRUCTURES, INCORPORATED PESHTICO, WISCONSIN

RECEIVED

JUL 24 1959

PAUL B. McLELLAN CO.



July 23, 1959

Paul B. McLellan Co.,
52 Marginal Way
Portland, Maine.

Re: Our Job No: 11-D-2089
First Lutheran Church
Portland, Maine.

Gentlemen:

We enclose four copies of Unit Structures, Inc. notarized July 13, 1959 letter and certification of various items of the laminated wood and "Unit Deck" construction, also one enclosure each copy of arch calculation sheets, our "Unit Deck" folder with load tables and sample of A.I.T.C. inspection certificate. The original letter also includes an enclosure of our "Unit Deck" test report and a complete A.I.T.C. inspection manual.

As noted in our letter, design will be in accordance with the uniform building code of the Pacific Coast Building Officials Conference. The A.I.T.C. inspection we submit for the approval of the Portland Building Department acknowledging that it may be in variance with the exact code requirement, however, we believe these methods and procedures the best available since persons with maximum knowledge and experience of laminated wood fabrication would certify.

Please advise of approval or if there are any other questions or information desired.

Very truly yours,

UNIT STRUCTURES, INC.

Hcw
Herman C. Weber
District Manager

Box 6 Sample
HCW:rmw
encls:



UNIT STRUCTURES, INC.

pioneer fabricators of all glued, laminated structures

TELEPHONE Ludlow 2-4545 • TWX 8355

General Offices PESHTIGO • WISCONSIN

July 13, 1959

RECEIVED
JUL 27 1959
DEPT. OF BLDG. INSP.
CITY OF PORTLAND

RECEIVED

JUL 24 1959

PAUL B. McLELLAN CO.

Paul B. McLellan Co.
52 Marginal Way
Portland, Maine

Re: First Lutheran Church
Portland, Maine
Unit Structures, Inc. Job 11-D-2089

Gentlemen:

We hereby certify that the structural glued laminated wood members to be furnished by Unit Structures, Inc. for the First Lutheran Church, Portland, Maine have been designed in full accordance with the requirement of the National Design Specifications for Stress-Grade Lumber and Its Fastenings as recommended by the National Lumber Manufacturers Association and the Uniform Building Code of the Pacific Coast Building Officials Conference. As such they do conform to the requirements of page 209 of the city of Portland, Maine Building Code. In addition they do conform to the provisions of the Timber Construction Standards of the American Institute of Timber Construction and the Standard Specifications, for the Design and Fabrication of Structural Glued Laminated Southern Pine of the Southern Pine Association. Design calculations to substantiate the above statements are included with this letter.

RECEIVED
JUL 27 1959
DEPT. OF BLDG. INSP.
CITY OF PORTLAND

We further certify that the Inland White Fir 3 x 6 decking shall be Standard Grade as described in the attached literature; that the product "Unit Deck" which we propose to furnish has been tested by the U. S. Forest Products Laboratory, Madison, Wisconsin,

Plants at PESHTIGO, WISCONSIN AND MAGNOLIA, ARKANSAS • OFFICES IN ALL PRINCIPAL CITIES



Paul B. McLellan Co.
July 13, 1959
Page - 2 -

and been found to conform to the requirements of page 210 of the Portland, Maine Building Code.

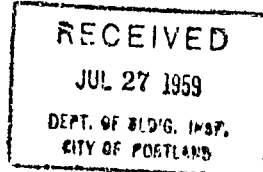
We will submit to you after fabrication and before shipment a certificate that the materials have been fabricated and shipped in full accordance with the above specified requirements and that inspection has also been performed in accordance with the provisions of the Inspection Manual for Structural Glued Laminated Lumber of the American Institute of Timber Construction.

Very truly yours,

UNIT STRUCTURES, INC.

CC. P. McLellan
H. Weber

Maurice J. Rhude
MAURICE J. RUHDE
Chief Engineer



MJR/dmm

Subscribed and sworn to before me
this 20 day of July 1959
 Evelyn Kuehl
NOTARY PUBLIC
My commission expires Jan. 31, 1960

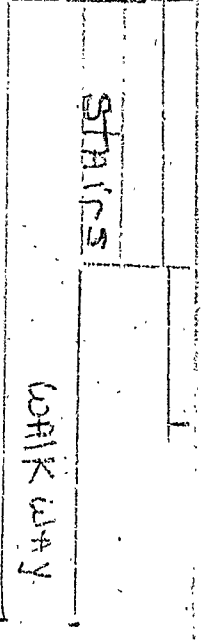
100-100
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Church
←

Building - 130 Auburn

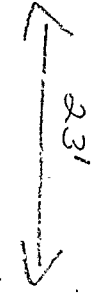
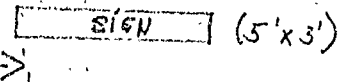
RECEIVED
JAN 2 1988
CITY OF PORTLAND
PLANNING DIVISION

[NOT TO SCALE]



Side CORNER

Auburn St.



PARKING LOT

RECEIVED
MAY 24 1988

DEPT. OF BUILDING INSPECTIONS
CITY OF PORTLAND



FIRST LUTHERAN
PRESCHOOL

797-3525



THE SIGN CENTER
171 WALTON ST. PORTLAND, ME 04103
(207) 797-1448

The Sign Center
Quality Signage

ARCHITECTURAL & CUSTOM SIGN SPECIALISTS
TRUCK & GLASS LETTERING
COLD LEAD WORK - ENGRAVED SYSTEMS
171 WALTON ST. PORTLAND, ME 04103 (207) 797-1448
OWNER: FRANK & ELIZABETH BARNES

2" = 1 FT.

3" HIGH LETTERS
(RESEMBLY ALL)

NOTE:
THIS LEAVE STUNDS DELETED
AND PROVEFT SIGNIFY
CHANGES
(2 1/2")

2 Streets: Flat
IN TOWN SIGNATURE & COPY
RIGHTS

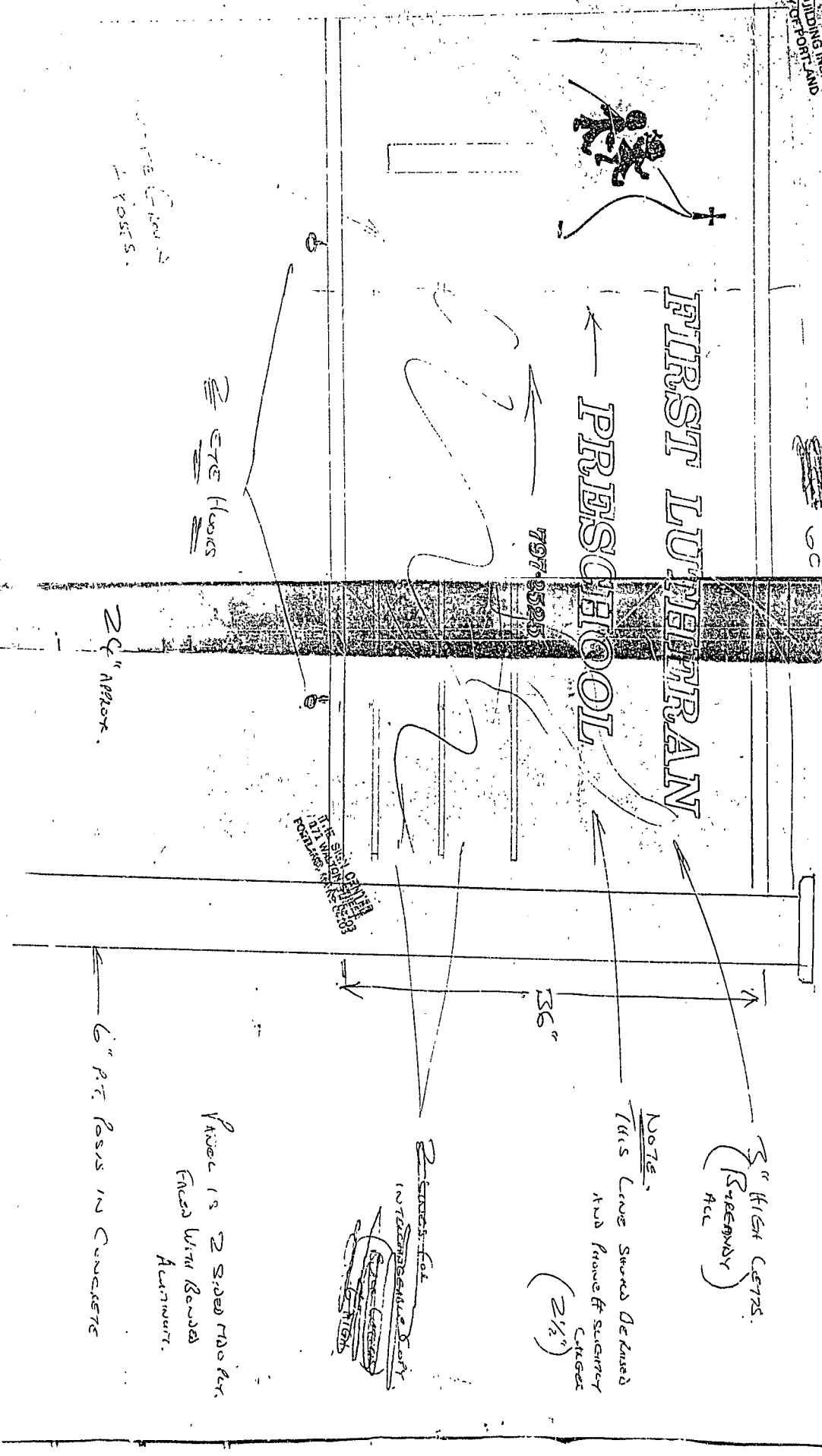
FACE IS 2 SIDED ROAD FOR
FACES WITH BOWLS
ALUMINUM.

6" P.T. FOSIS IN CONCRETE

24" APPROX.

STE HANDS

POSTS



PERMIT # 000589 CITY OF Portland BUILDING PERMIT APPLICATION MAP # _____ LOT# _____

Please fill out any part which applies to job. Proper plans must accompany form.

City: First Lutheran Pre-school
 Address: Auburn Street Portland 797-2525

LOCATION OF CONSTRUCTION: 332 Auburn Street

CONTRACTOR: The Sign Senter SUBCONTRACTORS: _____
 ADDRESS: 171 Walton Str 04153 797-7448

Est. Construction Cost: _____ Type of Use: Pole Sign

Past Use: _____
 Building Dimensions: _____ W _____ Sq. Ft. _____ # Stories: _____ Lot Size: _____

Is Proposed Use: _____ Seasonal _____ Condominium _____ Apartment _____
 Conversion - Explain: Erect 15 sq ft pole sign

COMPLETE ONLY IF THE NUMBER OF UNITS WILL CHANGE
 Residential Buildings Only:
 # Of Dwelling Units _____ # Of New Dwelling Units _____

Foundation:
 1. Type of Soil: _____
 2. Set Backs - Front _____ Rear _____ Side(s) _____
 3. Footings Size: _____
 4. Foundation Size: _____
 5. Other _____

Floor:
 1. Sills Size: _____ Sills must be anchored.
 2. Girder Size: _____
 3. Lally Column Spacing: _____ Size: _____
 4. Joists Size: _____ Spacing 16" O.C.
 5. Bridging Type: _____ Size: _____
 6. Floor Sheathing Type: _____ Size: _____
 7. Other Material: _____

Exterior Walls:
 1. Studding Size _____ Spacing _____
 2. No. windows _____
 3. No. Doors _____
 4. Header Sizes _____ Span(s) _____
 5. Bracing: Yes _____ No _____
 6. Corner Posts Size _____
 7. Insulation Type _____ Size _____
 8. Sheathing Typ _____ Size _____
 9. Siding Type _____ Weather Exposure _____
 10. Masonry Materials _____
 11. Metal Materials _____

Interior Walls:
 1. Studding Size _____ Spacing _____
 2. Header Sizes _____ Span(s) _____
 3. Wall Covering Type _____
 4. Fire Wall if required _____
 5. Other Materials _____

For Official Use Only	
Date: <u>May 24, 1988</u>	Subdivision: Yes / No _____
Inside Fire Limits: _____	Name: _____
Bldg Code: _____	Lot: _____
Time Limit: _____	Block: _____
Estimated Cost: _____	Permit Expiration: _____
Value/Structure: _____	Ownership: _____ Public _____ Private _____
Fee: <u>20</u>	

Ceiling: _____ **PERMIT ISSUED**
 1. Ceiling Joists Size: _____
 2. Ceiling Strapping Size _____ Spacing _____
 3. Type Ceilings: _____ MAY 26 1988
 4. Insulation Type _____ Size _____
 5. Ceiling Height: _____

Roof: _____ **City Of Portland**
 1. Truss or Rafter Size _____ Span _____
 2. Sheathing Type _____ Size _____
 3. Roof Covering Type _____
 4. Other _____

Chimneys:
 Type: _____ Number of Fire Places _____

Heating:
 Type of Heat: _____

Electrical:
 Service Entrance Size: _____ Smoke Detector Required? Yes _____ No _____

Plumbing:
 1. Approval of coil test if required Yes _____ No _____
 2. No. of Tubs or Showers _____
 3. No. of Flushes _____
 4. No. of Lavatories _____
 5. No. of Other Fixtures _____

Swimming Pools:
 1. Type: _____
 2. Pool Size: _____ x _____ Square Footage: _____
 3. Must conform to National Electrical Code and State Law.

Zoning:
 District: R-3 Street Frontage Req.: _____ Provided _____
 Required Setbacks: Front _____ Back _____ Side _____

Review Required:
 Zoning Board Approval: Yes _____ No _____ Date: _____
 Planning Board Approval: Yes _____ No _____ Date: _____
 Conditional Use: _____ Variance _____ Site Plan _____ Subdivision _____
 Shore and Floodplain Mgmt. _____ Special Exception _____
 Other: _____ (Explain) _____
 Date Approved: May 24, 1988

Permit Received By Lynne Benoit

Signature of Applicant Wendy Loker Date 5/24/88

Signature of CEO Wendy Loker Date _____

Inspection Dates _____

PLOT PLAN

N



FEES (Breakdown From Front)	Type	Inspection Record	Date
Base Fee \$ _____	_____	_____	____/____/____
Subdivision Fee \$ _____	_____	_____	____/____/____
Site Plan Review Fee \$ _____	_____	_____	____/____/____
Other Fees \$ _____	_____	_____	____/____/____
(Explain) _____	_____	_____	____/____/____
Late Fee \$ _____	_____	_____	____/____/____

COMMENTS 11-30-93 Mac has insp. + OK'ed

Signature of Applicant Richard W. Becht Jr. Date 2/5/93

BUILDING PERMIT REPORT

Date: 2/8/53

Address: 132 Auburn St

Reason for Permit install Alarm system

Building Owner: First Lutheran Church

Contractor: Sentry Protective Systems

Permit Applicant: Richard Becht

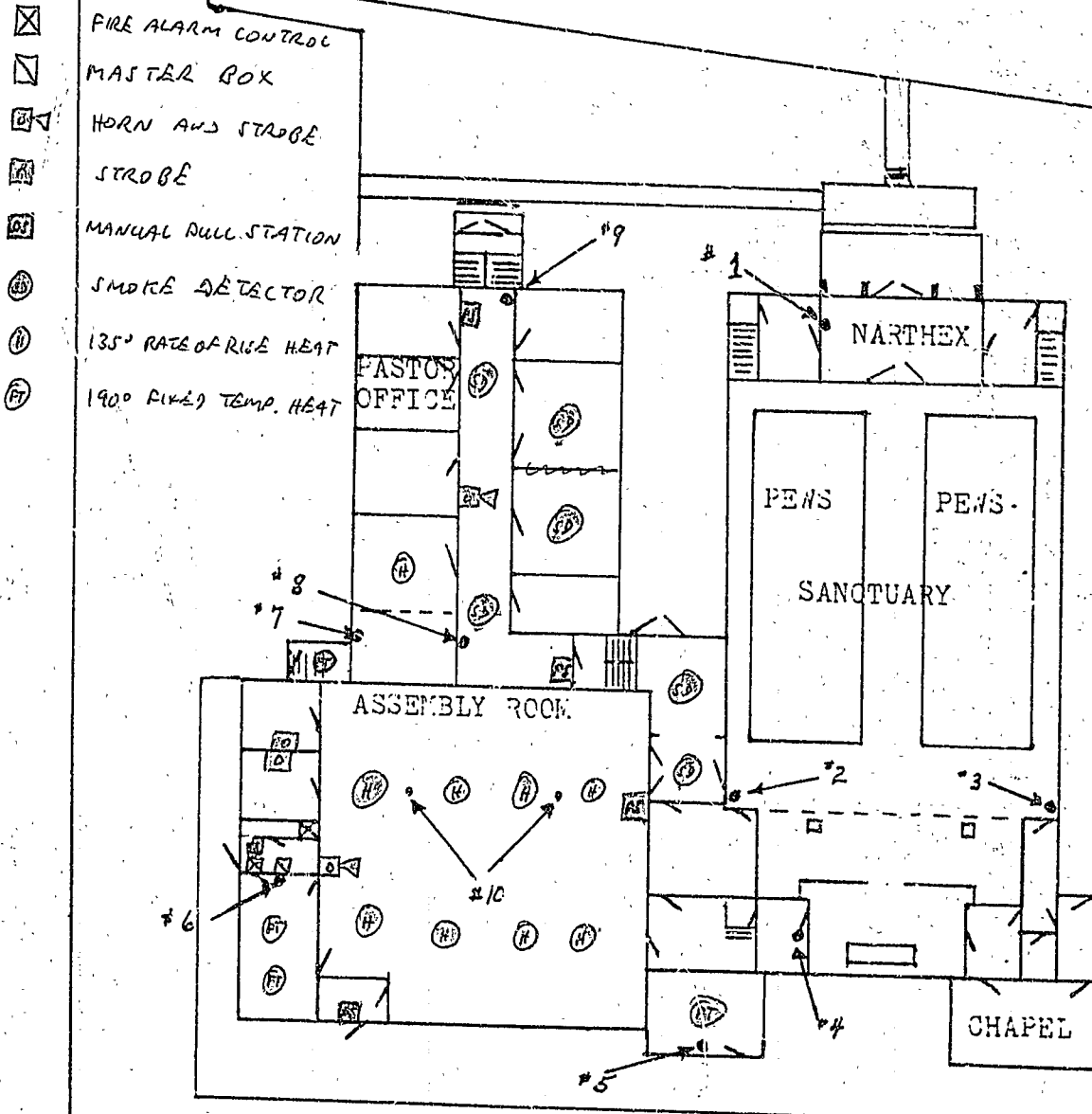
Approved: Denied:

Conditions of Approval or Denial:

1. All required Fire Alarm systems shall have the capability of "Zone Disconnect" via switches or key pad program provided the method is approved by the Fire Prevention Bureau.
2. All remote annunciators shall have a visible "trouble" indicator along with the Fire Alarm "Zone" indicators.
3. Any Master Box connected to the Municipal Fire Alarm System shall have a supervised Municipal Disconnect Switch.
4. All Master Box locations shall be approved by the Fire Department Director of Communications. A Master Box shall be located so that the center of the box is (5') five feet above finished floor.

FIRST LUTHERAN CHURCH
 132 AUBURN ST.
 PORTLAND, ME. 04103

AUBURN STREET

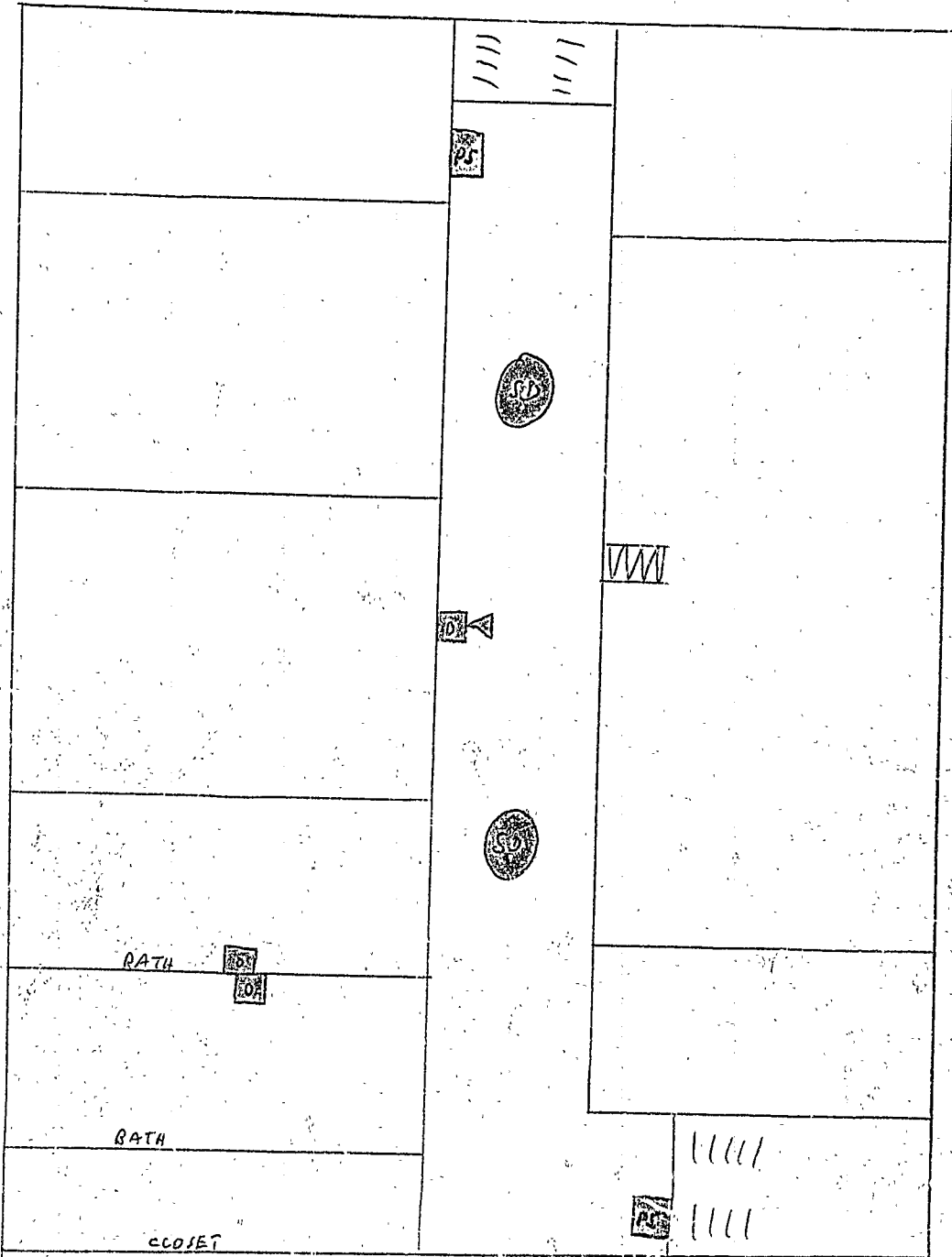


LOCATION OF FIRE EXTINGUISHERS

- #1 Narthex
- #2 Sanctuary
- #3 Sanctuary

LOWER LEVEL

FIRST LUTHERAN CHURCH
132 AUBURN ST.,
PORTLAND, ME 04103



Announcer

*of symbol
3040
about 2885*

CALVARY 
UNITED METHODIST CHURCH

**LABORS OF LOVE
NEVER WEARY**

REV. MARION FORD, PASTOR

The Announcer speaks well of your church body. This attractive sign articulates your name with style. And pronounces its messages with illuminating clarity.

As-built record information for sewer and storm service connections must be submitted to Parks and Public Works engineering Division (55 Portland Street) and approved prior to issuance of a Certificate of Occupancy.

A street opening permit(s) is required for your site. Please contact Carol Poliskey at 874-8300, ext. 8828. (Only excavators licensed by the City of Portland are eligible.)

The Development Review Coordinator reserves the right to require additional lot grading or other drainage improvement as necessary due to field conditions.

The site contractor shall establish finish grades at the building foundation to provide positive drainage. Finish grades at front of foundation (street side) shall be set above finish street *1/2" or 3/4" elevation to provide positive drainage*.

The Development Review Coordinator (874-8300, ext. 8722) must be notified at the time the building foundation is completed to perform an inspection.

cc: Paul Nishoff, Materials Engineer



CITY OF PORTLAND

September 29, 1994

Mr. John Kennedy, PE
Squaw Bay Corporation
P.O. Box 86A
Cumberland Center, ME 04021

Re: First Lutheran Church - 132 Auburn Street

Dear Mr. Kennedy:

On September 29, 1994, the Portland Planning Authority granted minor site plan approval for construction of a parking lot at 132 Auburn Street as shown on the approved site plan dated May, 1994, last revised September 26, 1994.

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

Please note the following provisions and requirements for all site plan approvals:

1. The site plan approval will be deemed to have expired unless work in the development has commenced within one (1) year of the approval or within a time period agreed upon in writing by the City and the applicant. A one year extension may be granted by this department if requested by the applicant in writing prior to the expiration date of the site plan.
2. A performance guarantee in a form acceptable to the City of Portland and an inspection fee equal to 1.7% of the performance guarantee will have to be posted before a building permit can be issued.
3. A defect guarantee, consisting of 10% of the performance guarantee, must be posted before the performance guarantee will be released.

CITY OF PORTLAND, MAINE
SITE PLAN REVIEW
Processing Form

XXX First Lutheran Church

05 Sept 1994

Applicant
 132 Auburn St. Portland, ME 04103

Date

Mailing Address
 Church/Parking Lot

132 Auburn St
 Address of Proposed Site
 374-C-013

Proposed Use of Site
 12,341 sq ft / 12,600 sq ft

Site Identifier(s) from Assessors Maps

Acreage of Site / Ground Floor Coverage

Zoning of Proposed Site

Site Location Review (DEP) Required: () Yes () No

Proposed Number of Floors 1 - parking lot

Board of Appeals Action Required: () Yes () No

Total Floor Area _____

Planning Board Action Required: () Yes () No

Other Comments: John Kennedy - 825-6294 Squaw Bay Corp

Date Dept. Review Due: _____

PLANNING DEPARTMENT REVIEW

9/24
 (Date Received)

- Major Development — Requires Planning Board Approval: Review Initiated
- Minor Development — Staff Review Below

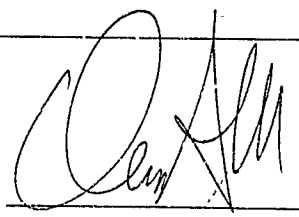
	LOADING AREA	PARKING	CIRCULATION PATTERN	ACCESS	PEDESTRIAN WALKWAYS	SCREENING	LANDSCAPING	SPACE & USE OF STRUCTURES	LIGHTING	CONFLICT WITH CITY PROJECTS	FINANCIAL CAPACITY	CHANGE IN SITE PLAN
APPROVED	W											
APPROVED CONDITIONALLY												
DISAPPROVED												

CONDITIONS SPECIFIED BELOW

REASONS SPECIFIED BELOW

REASONS: _____

(Attach Separate Sheet if Necessary)

 9/29/94

SIGNATURE OF REVIEWING STAFF / DATE

PLANNING DEPARTMENT COPY

CITY OF PORTLAND, MAINE

SITE PLAN REVIEW

Processing Form

XXX First Lutheran Church

08 Sept 1994

Applicant
132 Auburn St. Portland, ME 04103

132 Auburn St
Date

Mailing Address
Church/Parking Lot

Address of Proposed Site
374-C-013

Proposed Use of Site
142,341 sq ft / 12,600 sq ft

Site Identifier(s) from Assessors Maps

Acres of Site / Ground Floor Coverage

Zoning of Proposed Site

Site Location Review (DEP) Required: () Yes () No

Proposed Number of Floors 1 - parking lot

Board of Appeals Action Required: () Yes () No

Total Floor Area

Planning Board Action Required: () Yes () No

Other Comments: John Kennedy - 829-6994 Squaw Bay Corp *J. Kennedy*

Date Dept. Review Due:

PUBLIC WORKS DEPARTMENT REVIEW

(Date Received)

	TRAFFIC CIRCULATION	ACCESS	CURB CUTS	ROAD WIDTH	PARKING	SIGNALIZATION	TURNING MOVEMENTS	LIGHTING	CONFLICT WITH CITY CONSTRUCTION PROJECT	DRAINAGE	SOIL TYPES	SEWERS	CURBING	SIDEWALKS	OTHER	
APPROVED																CONDITIONS SPECIFIED BELOW
APPROVED CONDITIONALLY																
DISAPPROVED															REASONS SPECIFIED BELOW	

REASONS:

(Attach Separate Sheet if Necessary)

[Signature] 9/29/94
SIGNATURE OF REVIEWING STAFF/DATE

PUBLIC WORKS DEPARTMENT COPY

CITY OF PORTLAND, MAINE

SITE PLAN REVIEW

Processing Form

Applicant First Lutheran Church
132 Auburn St Portland, ME 04103
 Mailing Address Church/Parking Lot
 Proposed Use of Site 142,341 sq ft / 12,600 sq ft
 Acreage of Site / Ground Floor Coverage

Date 08 Sept 1994
132 Auburn St
 Address of Proposed Site 374-C-013
 Site Identifier(s) from Assessors Maps
 Zoning of Proposed Site

Site Location Review (DEP) Required: () Yes () No Proposed Number of Floors 1 - parking lot
 Board of Appeals Action Required: () Yes () No Total Floor Area
 Planning Board Action Required: () Yes () No

Other Comments: John Kennedy - 829-6994 Squw Bay Corp *J.R. Kennedy*

Date Dept. Review Due: _____

BUILDING DEPARTMENT SITE PLAN REVIEW

(Does not include review of construction plans)

- Use does NOT comply with Zoning Ordinance
- Requires Board of Appeals Action
- Requires Planning Board/City Council Action

Explanation _____

- Use complies with Zoning Ordinance — Staff Review Below

Zoning: SPACE & BULK,
as applicable

COMPLIES

COMPLIES
CONDITIONALLY

DOES NOT
COMPLY

DATE	ZONING LOCATION	INTERIOR OR CORNER LOT	40 FT. SETBACK AREA (SEC. 21)	USE	SEWAGE DISPOSAL	REAR YARDS	SIDE YARDS	FRONT YARDS	PROJECTIONS	HEIGHT	LOT AREA	BUILDING AREA	AREA PER FAMILY	WIDTH OF LOT	LOT FRONTAGE	OFF-STREET PARKING	LOADING BAYS

CONDITIONS
SPECIFIED
BELOW

REASONS
SPECIFIED
BELOW

REASONS: _____

[Signature]
SIGNATURE OF REVIEWING STAFF/DATE

BUILDING DEPARTMENT—ORIGINAL

CITY OF PORTLAND, MAINE

SITE PLAN REVIEW

Processing Form

XXX First Lutheran Church

08 Sept 1994

Applicant
132 Auburn St Portland, ME 04103

132 Auburn St Date

Mailing Address
Church/Parking Lot

Address of Proposed Site
374-C-013

Proposed Use of Site
142,341 sq ft / 12,600 sq ft

Site Identifier(s) from Assessors Maps

Acreage of Site / Ground Floor Coverage

Zoning of Proposed Site

Site Location Review (DEP) Required: () Yes () No

Proposed Number of Floors 1 - parking lot

Board of Appeals Action Required: () Yes () No

Total Floor Area

Planning Board Action Required: () Yes () No

Other Comments: John Kennedy - 829-6994 Squaw Bay Corp *[Signature]*

Date Dept. Review Due: _____

FIRE DEPARTMENT REVIEW

9/8/94
(Date Received)

	ACCESS TO SITE	ACCESS TO STRUCTURES	SUFFICIENT VEHICLE TURNING ROOM	SAFETY HAZARDS	HYDRANTS	SIAMISE CONNECTIONS	SUFFICIENCY OF WATER SUPPLY	OTHER	
APPROVED									
APPROVED CONDITIONALLY									CONDITIONS SPECIFIED BELOW
DISAPPROVED									REASONS SPECIFIED BELOW

REASONS: _____

(Attach Separate Sheet if Necessary)

[Signature]
 SIGNATURE OF REVIEWING STAFF/DATE
 FIRE DEPARTMENT COPY

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

Location of Construction: 132 Auburn St		Owner: First Lutheran Church	Phone:	Permit No: 941207
Owner Address:		Leasee/Buyer's Name:	Phone:	Business Name:
Contractor Name:		Address:		Phone:
Past Use: Church	Proposed Use: Same w/1 additional parking spot	COST OF WORK: \$	PERMIT FEE: \$ 25.00	PERMIT ISSUED NOV - 4 1994 CITY OF PORTLAND Zoning Approval: #
Proposed Project Description: Create parking spot		FIRE DEPT. <input type="checkbox"/> Approved <input type="checkbox"/> Denied	INSPECTION: Use Group: Type:	
		Signature:	Signature: <i>[Signature]</i>	PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.) Action: <input type="checkbox"/> Approved <input type="checkbox"/> Approved with Conditions <input type="checkbox"/> Denied Signature: Date:
Permit Taken By: Mary Gresik		Date Applied For: 2 Nov 94		

- This permit application doesn't preclude the Applicant(s) from meeting applicable State and Federal rules.
- Building permits do not include plumbing, septic or electrical work.
- Building permits are void if work is not started within six (6) months of the date of issuance. False information may invalidate a building permit and stop all work.

*** Bring permit to Charles Lane/Corporation Counsel

PERMIT ISSUED WITH LETTER

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 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 provisions of the code(s) applicable to such permit

Charles Lane
 SIGNATURE OF APPLICANT *[Signature]* DATE: 11/3/94 PHONE:

RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE
 White-Permit Desk Green-Assessor's Canary-D.P.W. Pink-Public File Ivory-Card-Inspector

Special Zone or Reviews:
 Shoreland
 Wetland
 Flood Zone
 Subdivision
 Site Plan major minor imm

Zoning Appeal:
 Variances
 Miscellaneous
 Conditional Use
 Interpretation
 Approved
 Denied

Historic Preservation:
 Not in District or Landmark
 Does Not Require Review
 Requires Review

Action:
 Approved
 Approved with Conditions
 Denied

Date: 11/3/94

CEO DISTRICT: 7
[Signature]

940542

Permit # _____ City of Portland BUILDING PERMIT APPLICATION Fee \$33.00 Zone _____ Map # _____ Lot # _____
Please fill out any part which applies to job. Proper plans must accompany form.

Owner: First Lutheran Church Phone # 797-2525
Address: 132 Auburn St. Portland, 10403
LOCATION OF CONSTRUCTION 132 Auburn St.
Contractor: _____ Sub: _____
Address: _____ Phone # _____
Est. Construction Cost: _____ Proposed Use: Church
Past Use: Church
of Existing Res. Units _____ # of New Res. Units _____
Build'ng Dimensions L _____ W _____ Total Sq. Ft. _____
Stories: _____ # Bedrooms _____ Lot Size: _____
Is Proposed Use: Seasonal _____ Condominium _____ Conversion _____
Explain Conversion _____ to replace existing sign 6 X 6 with sign 4 X 8 as per plans

For Official Use Only JUN - 9 1994
Date June 6, 1994 Subdivision: _____ Name: _____
Inside Fire Limits _____ Lot: _____
Bldg Code _____ Ownership: _____ Public _____ Private _____
Time Limit _____
Estimated Cost _____

Zoning: Street Frontage Provided: _____
Provided Setbacks: Front _____ Back _____ Side _____ Side _____
Review Required:
Zoning Board Approval: Yes _____ No _____ Date: _____
Planning Board Approval: Yes _____ No _____ Date: _____
Conditional Use: _____ Variance _____ Site Plan _____ Subdivision _____
Shoreland Zoning Yes _____ No _____ Floodplain Yes _____ No _____
Special Exception _____
Other _____ (Explain) _____

Foundation: UL File E80944 Sub. # 818186 Factory # 003
to use pickup truck
1. Type of Soil: _____
2. Set Backs - Front _____ Rear _____ Side(s) _____
3. Footings Size: _____
4. Foundation Size: _____
5. Other _____

HISTORIC PRESERVATION
Ceiling: Not in District nor Landmark
1. Ceiling Joists Size: _____ Spacing _____
2. Ceiling Strapping Size _____ Spacing _____ Does not require review.
3. Type Ceilings: _____ Size _____ Requires Review.
4. Insulation Type _____
5. Ceiling Height: _____ *****

Floor: 1. Sills Size: _____ Sills must be anchored.
2. Girder Size: _____
3. Lally Column Spacing: _____ Size: _____
4. Joists Size: _____ Spacing 16" O.C.
5. Bridging Type: _____ Size: _____
6. Floor Sheathing Type: _____ Size: _____
7. Other Material: _____

Roof: 1. Truss or Rafter Size _____ Span _____
2. Sheathing Type _____ Size _____
3. Roof Covering Type _____
Chimneys: Type: _____ Number of Fire Places: _____
Heating: Type of Heat: _____

Exterior Walls:
1. Studding Size _____ Spacing _____
2. No. windows _____
3. No. Doors _____
4. Header Sizes _____ Span(s) _____
5. Bracing: Yes _____ No _____
6. Corner Posts Size _____
7. Insulation Type _____ Size _____
8. Sheathing Type _____ Size _____
9. Siding Type _____ Weather Exposure _____
10. Masonry Materials _____
11. Metal Materials _____

Electrical: Service Entrance Size: _____ Smoke Detector Required Yes _____ No _____
Plumbing: 1. Approval of soil test if required Yes _____ No _____
2. No. of Tubs or Showers _____
3. No. of Flushes _____
4. No. of Lavatories _____
5. No. of Other Fixtures _____
Swimming Pools:
1. Type: _____ Square Footage _____
2. Pool Size: _____
3. Must conform to National Electrical Code and State Law.

Interior Walls:
1. Studding Size _____ Spacing _____
2. Header Sizes _____ Span(s) _____
3. Wall Covering Type _____
4. Fire Wall if require _____
5. Other Materials _____

Permit Received By Latini
Signature of Applicant David R. Alvord Date 6/6/94
Signature of CEO _____ Date _____
Inspection Dates _____

White-Tax Assesor Yellow-GPCOG White Tag -CEO [Z] [M] [J] Copyright 1988

nothing yet 6-23-94

no new sign 10-3-94

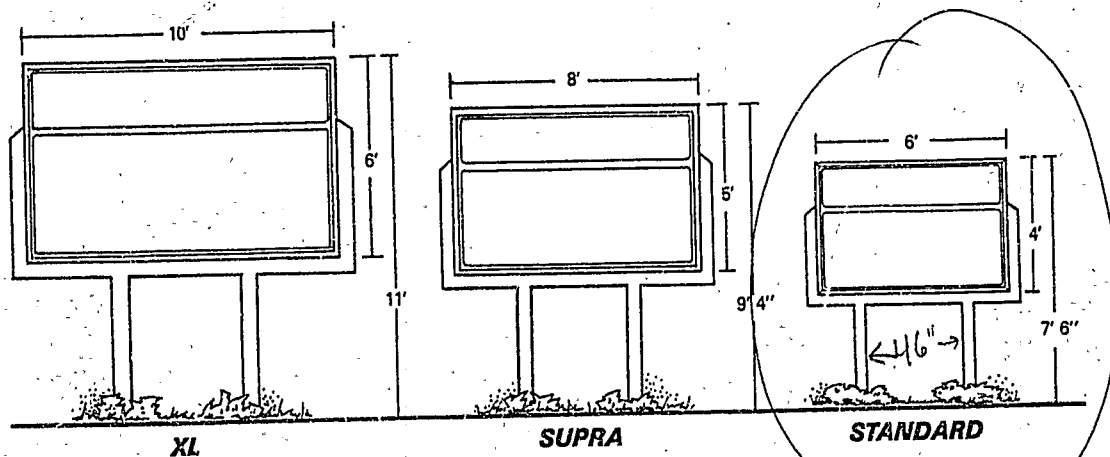
no new sign 10-11-94

10-19-94 - Sign Installed
per plans

CLOSE X

546000

ANNOUNCER



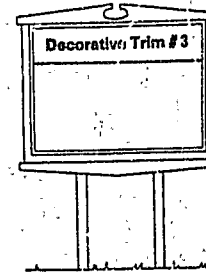
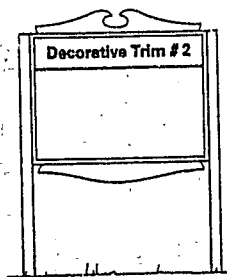
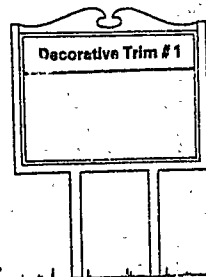
The ANNOUNCER calls out to your community. It emphasizes your church's name. And expresses specific messages of your choosing. Service times. Sermon titles. Special promotions. Scripture verses. The ANNOUNCER says it all — with style. Here's a handsome sign that blends well with traditional *and* modern architecture. Or comes with optional trims. Whichever you select, the ANNOUNCER will speak well for your church.

Announcer	# Letters	Message Module
XL	492	4 lines of 8" letters
Supra	492	4 lines of 6" letters
Standard	492	4 lines of 4" letters

Distance Readability Chart	
4" letter	165 feet readability
6" letter	220 feet readability
8" letter	385 feet readability

OPTIONAL DECORATIVE TRIM

These models provide an extra touch of distinction. While blending into the architectural theme, they effectively identify the edifice and announce to the community coming events, sermon topics, hours of service and/or mini sermons or nuggets of wisdom and encouragement.



The J.M. STEWART Corporation

America's Church Sign Company

Live Oak Business Center

2201 Cantu Court, Suite 217-218 • Sarasota, FL 34232

1-(800) 237-3928 or (813) 378-4242

Copyright

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FLAN0593-5H

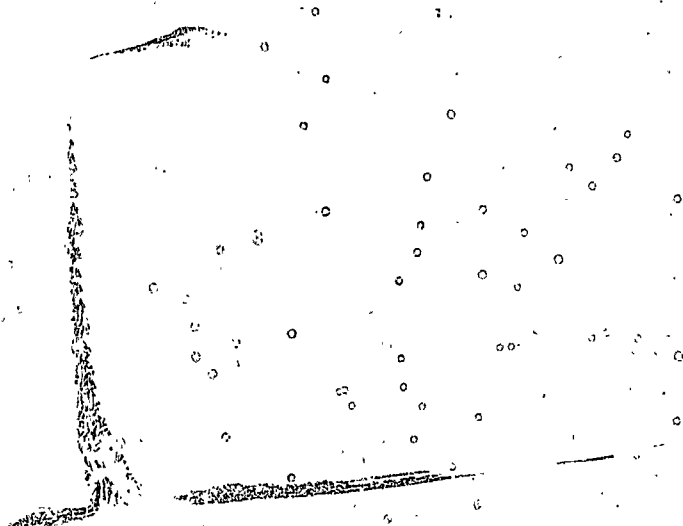
It was found desirable to have joined in the instant file
 the blank of the pilot foot between bearings in that case please
 examine the marked standard on page 210 for the use of long span
 wood foot-heel joints noting that certain reports and certificates
 with relation to this detail are to be filed in this department
 for the material as supplied by the manufacturer.

In a former situation, the workers' people who manufacture this
 type span blank took exception to the standards which the military
 officers adopted according to the best information the board had
 available. In this instance it is to be used as the arch and the main
 factors are a plain horizontal plane, please consider them as equally
 as possible to the best of your ability. It is considered, for
 as possible that the Government desired the best material and
 it is certain that the Government desired the best material and
 the standard should be maintained with safety.

Very truly yours,

Walter D. ...
 Director of ...

It is requested that you advise the Bureau of the progress of this matter.
 and in the event you determine that the matter is not being handled
 in a satisfactory manner, please advise the Bureau of the reasons therefor.



940544
 Permit # 940544 City of Portland BUILDING PERMIT APPLICATION Fee \$33.00 Zone _____ Map # _____
 Please fill out any part which applies to job. Proper plans must accompany form.

Owner: First Lutheran Church Phone # 797-2525
 Address: 132 Auburn St. Portland, 10403
 LOCATION OF CONSTRUCTION 132 Auburn St.
 Contractor: _____ Sub: _____
 Address: _____ Phone # _____
 Est. Construction Cost: _____ Proposed Use: Church
 Past Use: Church
 # of Existing Res. Units _____ # of New Res. Units _____
 Building Dimensions L _____ W _____ Total Sq. Ft. _____
 # Stories: _____ # Bedrooms _____ Lot Size: _____
 Is Proposed Use: Seasonal _____ Condominium _____ Conversion _____
 Explain Conversion _____ to replace existing sign 6 X 6
 _____ to use pickup truck with sign 4 X 8 as per plans

For Official Use Only
 Date June 6, 1994 Subdivision: _____
 Inside Fire Limits _____ Name _____
 Bldg Code _____ Lot _____
 Time Limit _____ Ownership: _____
 Estimated Cost _____ Public _____ Private _____

Foundation: UL File E80944 Sub. # 818186 Factory #003
 1. Type of Soil: _____
 2. Set Backs - Front _____ Rear _____ Side(s) _____
 3. Footings Size: _____
 4. Foundation Size: _____
 5. Other Will change to smaller sign
 Floor: Will bring in new sign
 1. Sills Size: _____ Sills must be anchored.
 2. Girder Size: _____
 3. Lally Column Spacing: _____ Size: _____
 4. Joists Size: _____ Spacing 16" O.C.
 5. Bridging Type: _____ Size: _____
 6. Floor Sheathing Type: _____ Size: _____
 7. Other Material: _____

Exterior Walls:
 1. Studding Size _____ Spacing _____
 2. No. windows _____
 3. No. Doors _____
 4. Header Sizes _____ Span(s) _____
 5. Bracing: Yes _____ No _____
 6. Corner Posts Size _____
 7. Insulation Type _____ Size _____
 8. Sheathing Type _____ Size _____
 9. Siding Type _____ Weather Exposure _____
 10. Masonry Materials _____
 11. Metal Materials _____

Interior Walls:
 1. Studding Size _____ Spacing _____
 2. Header Sizes _____ Span(s) _____
 3. Wall Covering Type _____
 4. Fire Well if required _____
 5. Other Materials _____

Zoning: Street Frontage Provided: _____
 Provided Setbacks: Front _____ Back _____ Side _____
 Review Required: _____
 Zoning Board Approval: Yes _____ No _____ Date: _____
 Planning Board Approval: Yes _____ No _____ Date: _____
 Conditional Use: _____ Variance _____ Site Plan _____ Subdivision _____
 Shoreland Zoning Yes _____ No _____ Floodplain Yes _____ No _____
 Special Exception _____
 Other (Explain) _____
 Ceiling: Smaller sign **HISTORIC PRESERVATION**
 1. Ceiling Joists Size _____
 2. Ceiling Strapping Size _____ Spacing _____
 3. Type Ceilings: _____
 4. Insulation Type _____ Size _____
 5. Ceiling Height: _____

Roof:
 1. Truss or Rafter Size _____ Span _____
 2. Sheathing Type _____ Size _____
 3. Roof Covering Type _____
 Chimneys:
 Type: _____ Number of Fire Places _____

Heating:
 Type of Heat: _____
 Electrical:
 Service Entrance Size: _____ Smoke Detector Required Yes _____ No _____

Plumbing:
 1. Approval of soil test if required Yes _____ No _____
 2. No. of Tubs or Showers _____
 3. No. of Flushes _____
 4. No. of Lavatories _____
 5. No. of Other Fixtures _____

Swimming Pools:
 1. Types: _____
 2. Pool Size: _____ Square Footage: _____
 3. Must conform to National Electrical Code and State Law.

Permit Received By Latini
 Signature of Applicant David R. Alvoru Date 6/6/94
 Signature of CEO _____ Date _____

Inspection Dates _____
 White-Tax Assesor _____ Yellow-GPCOG _____ White Tag -CEO [Signature] Copyright GPCOG 1988

PLOT PLAN

8-100

N
↑

FEES (Breakdown From Front)

Base Fee \$ _____
Subdivision Fee \$ _____
Site Plan Review Fee \$ _____
Other Fees \$ _____
(Explain) _____
Late Fee \$ _____

Type	Inspection Record	Date
_____	_____	____/____/____
_____	_____	____/____/____
_____	_____	____/____/____
_____	_____	____/____/____

COMMENTS

Signature of Applicant _____

Date _____

934550

Permit # 934550 City of Portland BUILDING PERMIT APPLICATION Fee 50.00 Zone _____ Map # _____ Lot# _____
Please fill out any part which applies to job. Proper plans must accompany form.

Owner: First Lutheran Church Phone # 797-2525
Address: 132 Auburn St Pctd, ME 04103
LOCATION OF CONSTRUCTION 132 Auburn St
Contractor: Sentry Protective Systems
536 Riverside St 04103 Phone # 797-7779

For Official Use Only
Date: February 5, 1993 Subdivision Name: FEB 10 1993
Inside Fire Limits: _____ Lot: _____
Bldg Code: _____ Ownership: _____
Time Limit: _____ Public: _____
Estimator's Cost: _____ CITY OF PORTLAND

Est. Construction Cost: 5,700.00 Proposed Use: Church w/fire alarm system
Past Use: Church
of Existing Res. Units _____ # of New Res. Units _____
Building Dimensions L _____ W _____ Total Sq. Ft. _____
Stories: _____ # Bedrooms _____ Lot Size: _____
Is Proposed Use: Seasonal _____ Condominium _____ Conversion _____
Explain Conversion Install Fire Alarm System

Street Frontage Provided: _____
Provided Setbacks: Front _____ Back _____ Side _____
Review Required:
Zoning Board Approval: Yes _____ No _____ Date: _____
Planning Board Approval: Yes _____ No _____ Date: _____
Conditional Use: _____ Variance _____ Site Plan _____ Subdivision _____
Shoreland Zoning Yes _____ No _____ Floodplain Yes _____ No _____
Special Exception _____
Other W-702-8-93

Foundation:
1. Type of Soil: _____
2. Set Backs - Front _____ Rear _____ Side(s) _____
3. Footings Size: _____
4. Foundation Size: _____
5. Other _____

Ceiling:
1. Ceiling Joists Size: _____
2. Ceiling Strapping Size _____ Spacing _____
3. Type Ceilings: _____
4. Insulation Type _____ Size _____
5. Ceiling Height: _____

Floor:
1. Sills Size: _____ Sills must be anchored.
2. Girder Size: _____
3. Lally Column Spacing: _____ Size: _____
4. Joists Size: _____ Spacing 16" O.C.
5. Bridging Type: _____ Size: _____
6. Floor Sheathing Type: _____ Size: _____
7. Other Material: _____

Roof:
1. Truss or Rafter Size _____ Span _____
2. Sheathing Type _____ Size _____
3. Roof Covering Type _____

Exterior Walls:
1. Studding Size _____ Spacing _____
2. No. windows _____
3. No. Doors _____
4. Header Sizes _____ Span(s) _____
5. Bracing: Yes _____ No _____
6. Corner Posts Size _____
7. Insulation Type _____ Size _____
8. Sheathing Type _____ Size _____
9. Siding Type _____ Weather Exposure _____
10. Masonry Materials _____
11. Metal Materials _____

Chimneys:
Type: _____ Number of Fire Places _____

Interior Walls:
1. Studding Size _____ Spacing _____
2. Header Sizes _____ Span(s) _____
3. Wall Covering Type _____
4. Fire Wall if required _____
5. Other Materials _____

Heating:
Type of Heat: _____

Electrical:
Service Entrance Size: _____ Smoke Detector Required Yes _____ No _____

Plumbing:
1. Approval of soil test if required Yes _____ No _____
2. No. of Tubs or Showers _____
3. No. of Flushes _____
4. No. of Lavatories _____
5. No. of Other Fixtures _____

Swimming Pools:
1. Type: _____
2. Pool Size: _____ x _____ Square Footage _____
3. Must conform to National Electrical Code and State Law.

Permit Received By _____

Signature of Applicant Richard Brobst Jr. Date Feb 5, 1993

Signature of CEO _____ Date _____

Inspection Dates _____

PERMIT ISSUED WITH REQUIREMENTS

SPENCER - MILLWARD AND ASSOCIATES

INCORPORATED

ARCHITECTS • 169 FRONT STREET • ENGINEERS
SOUTH PORTLAND, MAINE •
P. O. BOX 2114

TEL. SPRUCE 2-1181

June 9, 1959

Mr. Albert J. Sears
Inspector of Buildings
City Hall
389 Congress Street
Portland, Maine

Re - AP-132-148 Auburn Street

Dear Mr. Sears:

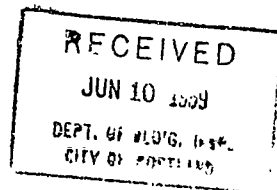
Reference is made to your letter of June 5, 1959 calling our attention to the variations from the Zoning Ordinance requirements, which we have corrected and discussed with Mr. Conner.

The changes required have been indicated on a new Plot Plan, a copy of which is enclosed. We have also forwarded a copy to Mr. Conner for his attention and endorsement.

1. The building has been re-oriented on the site and now has a setback of 10 feet. This 40' dimension is measured at right angles to the street line and to the outer edge of the entrance platform on the front of the building; however, excluding the two steps shown.

2. In accordance with the section of the Zoning Ordinance affecting off-street parking, we have changed the parking area and the grading of same and show the parking facilities for the number of cars required for the number of seats in excess of the 250 as called for by the Ordinance. The seating capacity of the new church will be approximately 348.

3. The new Plot Plan also shows the location and width of the driveway entrance to the lot and the width of cut required at the curb.



Mr. Albert J. Sears

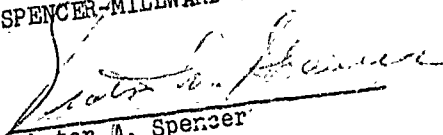
June 9, 1959

4. Artificial lighting for the parking area will not be used.

I believe the new Plot Plan enclosed will indicate to you our compliance with all the regulations mentioned in your letter and in the Summary of Zoning Requirements.

Sincerely yours,

SPENCER-MILLWARD & ASSOCIATES


Victor A. Spencer
Vice President

VAS/h
Enclosure

cc to: Walter Baertschi, Pastor
First Lutheran Church

Paul B. McLellan Co.
52 Marginal Way

Mr. Samuel Conner
Traffic Engineer

RECEIVED

JUN 10 1959

DEPT. OF PLD'G. INSP.
CITY OF PORTLAND

cc to: Paul B. McLellan Co.
Mr. Albert J. Sears, Building Inspector
Walter Baertschi, Pastor, First Lutheran Church.

June 9, 1959

Mr. Samuel H. Conner
Traffic Engineer
City Hall
389 Congress Street
Portland, Maine

Re - First Lutheran Church, Portland, Maine

Dear Mr. Conner:

We are forwarding herewith a print of the Plot Plan for the First Lutheran Church, Auburn Street, Portland.

The seating capacity of the new church will be 348, and in compliance with the Ordinance, Section 14-B-11, we have indicated parking spaces for eleven cars which, I believe, conforms with the regulations.

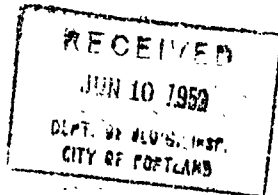
We have also indicated the area for parking, the driveway, and the width of the cut at Auburn Street, which will be 32' maximum. The surfacing of the parking area and driveway will be crushed stone, to a minimum depth of 6", topped off with brushed blue stone. The character of the soil is such that natural drainage will be afforded in this area and we cannot possibly anticipate any drainage over a City street or road which will necessitate mechanical drainage.

Thanking you for your kind attention, I am

Sincerely yours,

SPENCER-MILLWARD & ASSOCIATES

Victor A. Spencer
Vice President



VAS/h
Enclosure

ΣΥΝΤ.
172/76

ΠΡΑΞΕΙΣ ΤΩΝ ΔΙΟΙΚΗΤΩΝ
ΥΠΟΥΡΓΕΙΟΥ ΕΣΩΤΕΡΩΝ

ΔΕΛΤΑ ΕΠΙΤΡΟΦΗΣ

ΑΠΟΦΑΣΙΣ ΤΩΝ ΜΕΛΩΝ ΤΗΣ ΕΠΙΤΡΟΦΗΣ
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ΕΠΙΧΕΙΡΗΣΙΑΚΑ ΚΑΙ ΟΙΚΟΝΟΜΙΚΑ ΘΕΜΑΤΑ



UNIT STRUCTURES, INC.
pioneer fabricators of all glued, laminated structures

TELEPHONE LUdio 2-4545 • TWX 3355

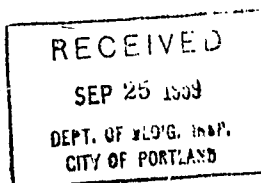
General Offices PESHTIGO • WISCONSIN

September 22, 1959

City of Portland, Maine
Dept. of Bldg. Inspection

ATTENTION: Mr. Warren McDonsld
Acting Deputy Inspector of Bldgs.

Re: First Lutheran Church - 132 - 141 *Curran St*
Portland, Maine
Unit Job 11-D-2089



Gentlemen:

As indicated by our letter of August 5, 1959 at such time as the decking and laminated material for the above job was shipped, we would send the requested certificate.

The 27,000 BM of Inland White Fir 3 x 6 decking shipped in car DL &W 53249 on September 1, 1959, routed UP C&NW GT MEC does conform to the requirements of your standard as well as the requirements for Standard Grade Unit Deck as published by Unit Structures, Inc.

The laminated materials have been fabricated in accordance with your Standard, The American Institute of Timber Construction Standards, The AITC Inspection Manual and The Specification for the Design and Fabrication of Structural Glued Laminated Southern Pine.

Very truly yours,

UNIT STRUCTURES, INC.

Maurice J. Rhude
MAURICE J. RHUDE
Chief Engineer

CC: Paul O. McLellan Co.
New District Office
England

MJR/dmm

Plants at PESHTIGO, WISCONSIN AND MAGNOLIA, ARKANSAS • OFFICES IN ALL PRINCIPAL CITIES



Fabricator's Certificate

For

STRUCTURAL GLUED LAMINATED LUMBER

conforming to the

TIMBER CONSTRUCTION STANDARDS AND INSPECTION MANUAL

AMERICAN INSTITUTE OF TIMBER CONSTRUCTION

Washington 6, D. C.



Job Name FIRST LUTHERAN CHURCH
Job Location PORTLAND, MAINE (Unit Job 11-D-2089)

THE UNDERSIGNED COMPANY ON ITS OWN RESPONSIBILITY HEREBY CERTIFIES that the structural
glued laminated lumber on the following list conforms to specifications and to the procedures and provisions of
AITC Inspection Manual for Structural Glued Laminated Lumber and Timber Construction Standards:

Number of Pieces	Mark	Type	Size	Shape
8	A-1	Arches	49'-0" span	Curved
3	A-2	Arches	46'-7½" span	Curved

Signature *M. J. ...*
Title CHIEF ENGINEER
Company UNIT STRUCTURES, INC.
Address PESHTIGO, WISCONSIN

SUBSCRIBED AND SWORN to before me
this 23 day of Sept. A. D., 1952

Emily Kuehl
NOTARY PUBLIC

My commission expires 1-31-60

Date SEPTEMBER 23, 1952

JOB INSPECTION

41-56

The glued laminated construction listed herein for
 (name of job) FIRST LUTHERAN CHURCH, PORTLAND, MAINE
 Has been inspected for fabrication at the plant of
 (name of fabricator) UNIT STRUCTURES, INC. * PESHTIGO, WISCONSIN
 in accordance with drawings and specifications of
 (name of architect or engineer) SPENCER - MILLWARD & ASSOCIATES
 Date September 22, 1959
 Type of structure (Beam, Arch, etc.) ARCHES
 Adequacy of equipment and facilities ADEQUATE

Joints (note whether end-joints are scarfed or butted, and check frequency of joints; check staggering of end and edge-joints and conformance to specifications) SCARF JOINTS 2 FEET APART, REPEATED EVERY FIFTH LAMINATION.

Scarfed Joints: If pre-glued note how secured during gluing, resurfacing or smoothing after gluing and uniformity in thickness each side of scarf. If glued in place, note how secured during gluing.) SCARFS SECURE, SURFACED BOTH SIDES UNIFORMLY

Assembly for gluing (check position of laminations of different grades if two or more grades used; if selection made of better pieces of one grade for outside two-fifths check correctness of such selection) COMBINATION 1-8 B & BTR. LUMBER EACH SIDE, BALANCE OR INNER LAMINATIONS NO. 2 LUMBER.

Temperature of room	<u>72° F.</u>	Number of sides applied	<u>2</u>
Humidity of room	<u>65%</u>	Time between spread and pressure	<u>25 minutes</u>
Moisture content of lumber	<u>12%</u>	Amount of pressure applied	<u>150 pounds p.s.i.</u>
Glue used (mfr. designations)	<u>National Casein</u>	Constancy of pressure	<u>Uniform</u>
Made by	<u>National Casein</u>	Time under pressure	<u>4 hours</u>
Conformance of glue to manufacturer's mixing instructions	<u>2 to 1</u>	Curing period (state time and protection afforded)	<u>48 hrs. at 70°</u>
Temperature of glue	<u>69° F.</u>	Earliest erection date	<u>?</u>
Time between mix and spread	<u>18 min.</u>	Finishing & treatment (when required)	
Amt. and uniformity of spread	<u>Even spread</u>	(a) Cleaning & Surfacing	<u>Planed smooth</u>
		(b) Protective treatment	<u>Individually</u>
		(c) Staining or painting	<u>Stained & varnished</u> wrapped
			<u>premium</u>

Robert L. Steffen
 Inspector



UNIT STRUCTURES, INC.
pioneer fabricators of all glued, laminated structures

TELEPHONE LUdigo 2-4545 • TWX 8355

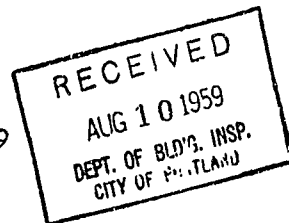
General Offices PESHTIGO • WISCONSIN

August 5, 1959

City of Portland, Maine
Dept. of Bldg. Inspection

ATTENTION: Mr. Warren McDonald
Acting Deputy Inspector of Bldgs.

Re: First Lutheran Church
Portland, Maine
Unit Structures, Inc. Job 11-D-2089



Gentlemen:

Your letter of July 29th requests additional information regarding the wood materials which we have proposed to furnish for the Portland First Lutheran Church.

1. The ability of this deck panel to carry load is limited, in the spans under consideration, by deflection. We have chosen to determine the load carrying capacity by a deflection limitation of $1/240$ span under total design load. Thus, for example, using an 11 ft. span and white fir 3" deck, we have the following:

$$\text{deflection } \Delta = \frac{K w l^4}{EI}$$

$$\text{or load } w = \frac{\Delta EI}{K l^4}$$

where maximum deflection = $1/240$ (11 x 12 = 0.55")

$K = 4/581$ (for end span of
three span
continuous beam)

$E = 1,210,000$ p.s.i.

$I = 1/12 (1) (2625)^3 \times 1.5 \text{ in.}^4$ CHARTER

Plants at PESHTIGO, WISCONSIN AND MAGNOLIA, ARKANSAS • OFFICES IN ALL PRINCIPAL CITIES



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therefore:

$$l = 11 \times 12 = 132 \text{ inches}$$

$$w = \frac{0.55 (146) (1,210,000) 1.5}{(132)^4} (144)$$

$$w = 1.48 (144) = 70 \text{ p.s.f.}$$

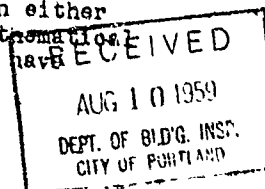
This is the basis upon which the total load (including weight of deck) has been determined for the curves shown in our literature, considering the ratio K as the figure 0.0068 for the end span of a three span continuous beam.

You may also compute the allowable load in bending, using the 80% effective factor as stated in the U.S.F.P.I. tests, but of course, deflection will govern.

2. We would recommend that at least the first row of decking be continuous between supports; this recommendation being made primarily due to an erection convenience.
3. The original tests were based on the worst possible conditions; primarily No. 3 Western Red Cedar and butt joints concentrated in the center of the span. Along with this went the 4 feet between joists in adjacent runs and at least four intervening pieces before joints before repeating joints directly in line.

We did subsequently modify this requirement, to two feet between joints in adjacent runs and a minimum of two intervening pieces between joints directly in line, but we did so only after stipulating that the joints should be kept out of the center of the span as far as possible and be placed near the 1/3rd or 1/4th points of the span. Likewise, a large number of joints should not occur over the supports, to in effect make simple spans of the construction.

4. The construction as we have outlined it in our literature and the lengths provided for the spans specified should not prove any problem as far as the requirement that no joint shall occur within less than 2 feet of a similar joint in a piece next beyond an adjacent piece on either side. This requirement may or may not have a mathematical or test background, as the other requirements we have indicated, but we doubt it.



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5. We trust that the above information will fulfill the requirements of your standard. If we can provide you with further information we will be glad to do so. Current heavy 3" and 4" deck data in Sweets Catalog, when you consider the several manufacturer's literature, will show variations of load carrying capacity in the amount of 20% over that which Unit Structures does show to 20% less than our figures. A special committee for 3" and 4" heavy double tongue and groove decking standardization has been formed by the American Institute of Timber Construction. Our current draft places the load carrying capacity at the figures which Unit Structures did receive from the early tests seven years ago and which can be substantiated mathematically. This is the basis for the data we have forwarded to you.

The last paragraph of my letter of July 13th means to state that we have certified that both laminated and solid decking will conform to the requirement of your standard and that after fabricated and shipped we will provide you with certificates that the actual material shipped does conform to these standards.

We do hereby certify that the literature furnished to the contractor with our previous July 13th letter does put forth our intention to furnish material equal to or better than that in the test panels earlier described, that the material will be in accordance with his purchase order to us for quantity and lengths and that this literature does include the instructions for application to the roof.

Very truly yours,

UNIT STRUCTURES, INC.

Maurice J. Rhude
MAURICE J. RHUDE
Chief Engineer

cc: Paul O. McLellan Co.
New England Dist. Office

MJR/mag

