1632 SW HALL FA01-136368

U

15

file TERRY

X 15 #

CITY OF PORTLAND
FACILITIES PERMIT PLAN INTAKE

APPLICANT INFORMATION

Applicant: PSU-FACILITIES
Address: 617 SW MONTGOMERY
Phone: 725-3738

Plans & Permits will be available for pick up on the 5th floor at 1900 SW 4th. Please indicate who should be contacted:

Name: TOM ARNICH
Phone # 725- 4306

Contractor Information:

NAME:		CCB #:
Building:		
Plumbing:		
Electrical:		
Mechanical:		

Project Description:

Facility: PSU
Installation Address: EAST HALL
Project Name: 1632 SW HALL
Job Description: "NEW INTERIOR WINDOW
Bldg Valuation: $2,000
Project Ref. # 187753

Building Permit #: 01-136368 FA

Occup.y Group:		Const. Type:	
No. Of Stories		Flood Plain	
Erosion Control		Alarms Reqd	
Sprinklers		Smoke Det	

Special Inspection:

Bin #
Building Registration Permit # 00-153232 FA
Scan Jim, Terry —

PLAN INTAKE:
Date: Initials:

PERMIT INFORMATION:

Mechanical Permit #:
A: Valuation: Job Description:

Plumbing Permit #:
Number of Fixtures:
Back Flow Devices:
Water Service (# of Feet):
Other:

Electrical Permit #:
A: Feeders:
200 amps or less 201 to 400 amps
401 to 600 amps 601 to 1,000 amps
Over 1,000 amps or volts
B: Branch Circuits:
New, Alteration or Extension per Panel
Each branch circuit purchased
With a feeder:
First branch circuit without
Purchase of a feeder:
Each additional branch circuit
C: Miscellaneous:
Each pump or irrigation circle
Each sign or outline lighting
Limited energy panel alteration
Or extension; or signal circuits.
D: Plan Review:
___ Feeders 400 amps or more
___ System over 600 volts
___ Occupant Load over 99 Persons
___ Building over 3 stories
___ Health Care Facility
___ Building over 10,000 sq. ft.

#15

X

BUREAU OF BUILDINGS
CITY OF PORTLAND
THIS DRAWING IS APPROVED FOR CONSTRUCTION;
ERRORS OR OMISSIONS DO NOT IMPLY APPROVAL
TO VIOLATE ANY APPLICABLE CODE OR ORDINANCE.
FACILITY #
BLDG. PERMIT # 01-136368 FA
MECH PERMIT
DATE 05-01-01
REVIEWED BY Jim Nicks / Slone
THESE PLANS & SPECIFICATIONS SHALL BE ON
JOB SITE FOR ALL INSPECTIONS.

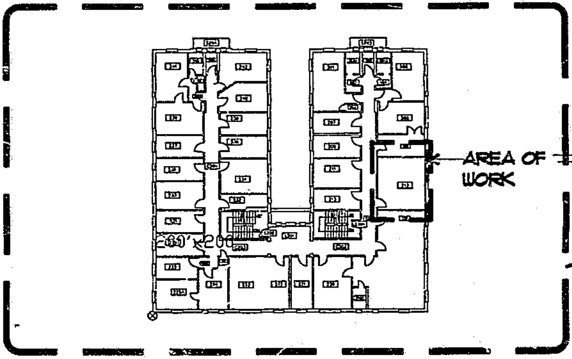
NEW INTERIOR WINDOW
at
ROOM 212
EAST HALL BLDG

REGISTERED ARCHITECT
3114
F. THOMAS ARNICH
GLADSTONE, OREGON
STATE OF OREGON

Thomas Arnich

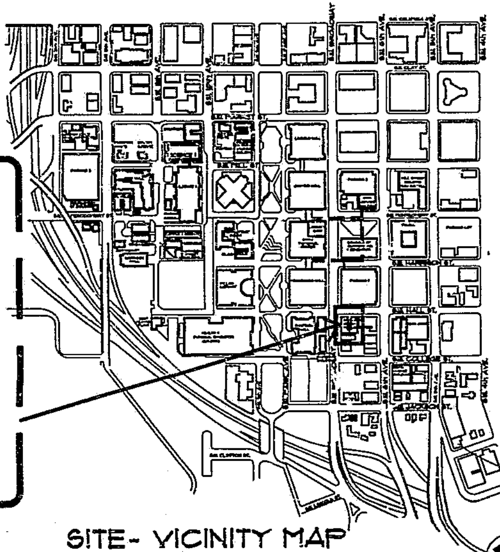
SHEET SCHEDULE

A-1 SITE- VICINITY MAP
A-2 FLOOR PLAN



LOCATION PLAN--2ND FLOOR

SCALE: 1" = 40'



SITE- VICINITY MAP

NO SCALE

PORTLAND STATE UNIVERSITY
FACILITIES
617 S.W. MONTGOMERY ST.
PORTLAND, OREGON 97201
503-725-8755 FAX 503-725-4924

NEW INTERIOR WINDOW
ROOM 212 - EAST HALL BLDG
1632 SW HALL

DRAWN BY:
LTN

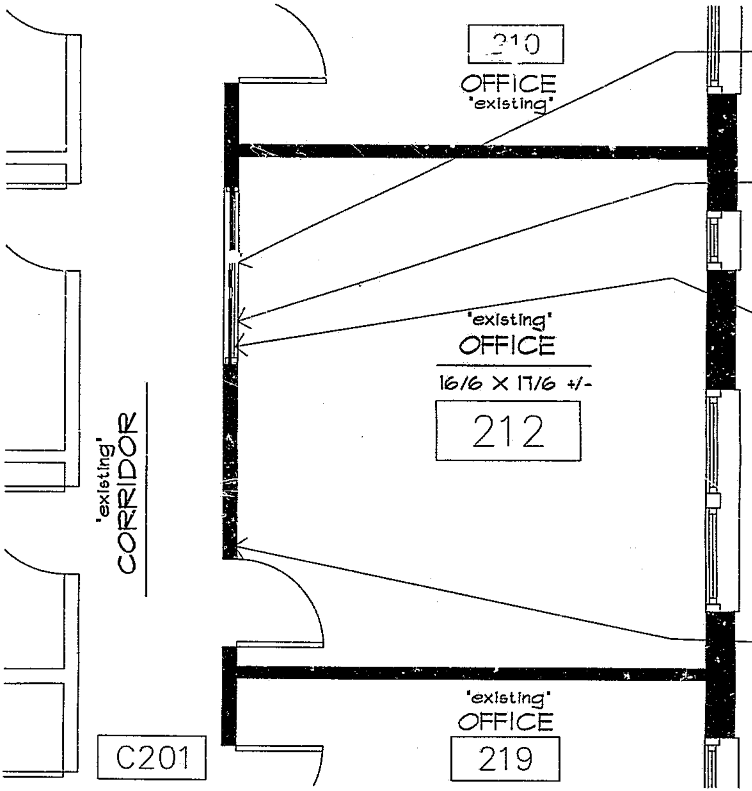
CHECKED:
FTA

DATE:
04

PROJECT #:
192-R-50

SHEET #:
A-1
1 OF 2

01-136368 FA



PLAN NOTES

NEW 6'-0' X 3'-0'WIDE FIXED WINDOW WITH WIRE GLASS & 3/4 HR FIRE LABEL METAL FRAME

TOP OF WINDOW HEAD HEIGHT TO MATCH TOP OF DOOR HEAD HEIGHT

NEW WOOD HEADER 3 1/2" x 8 5/8" TIMBER STRAND LSL WITH 3 X 4 (USE EXIST) OR (2) 2X4 DF #1 KILN DRIED CRIPPLE STUDS EACH SIDE

EXISTING WOOD STUD WALLS

2ND FLOOR PLAN

SCALE: 1/4"= 1'-0"

PORTLAND STATE
UNIVERS

FACILITIES
617 SW MONTGOMERY ST.
PORTLAND, OREGON 97201
503-725-5750 FAX 503-725-4524

NEW INTERIOR WINDOW
RM 212 - EAST HALL BLDG
1632 SW HALL
I:\92study\rm-212-remodel-2001

DRAWN BY:
LTN
CHECKED:
PTA
DATE:
04/19/01

PROJECT #:
112-R-50
JOB #:
157755

SHEET #:
A-2
2 OF 2

VLMK Consulting Engineers
3933 SW Kelly Ave. / PORTLAND, OR 97201-4393
(503) 222-4453 / FAX 248-9263

FAX TRANSMITTAL

(Please call 503-222-4453 if all pages are not received)

TO: PSU FACILITIES 503-725-4329
DATE: 4-18-01
ATTN: TOM ARNICH
FROM: JIM K.
PROJECT: EAST HALL - RM 212
NO. OF PAGES TO FOLLOW 3
URGENT, PLEASE HAND DELIVER ______
COPY TO FOLLOW IN MAIL ✓
COMMENTS:

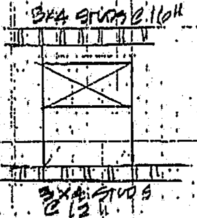
HERE IS CALC. FOR HEADER, I USED MFR. LUMBER TO ELIMINATE SHRINKAGE PROBLEMS. 1-CRIPPLE STUD EA. END

LET ME KNOW IF YOU NEED ANYTHING ELSE.

VLMK Consulting Engineers
3933 SW KELLY AVENUE / PORTLAND, OREGON 97201-4393
(503) 222-4453 / FAX (503) 248-9263 / email: vlmk@vlmk.com

Job EAST HALL - ROOM 212
Client PSU
Job No. ________ By JEK
Date 4-18-01 Sheet No. 1

NEW 6'-0" HEADER AT INTERIOR BRG. WALL
HEADER WILL SUPPORT ROOF LOAD & LOAD FROM THIRD FLOOR



ROOF DL	ROOFING	6 PSF	
	SHEATHING	2.5 PSF	
	2x6 @ 16"	1.7 PSF	
	2x10 @ 16"	2.3 PSF	
	CEILING	5.0	
	MISC.	1.5	
		19.5 ~ 20	
LL		25 PSF	45
FLOOR DL	FLOOR	4.0	
	SHEATING	2.5	
	2x12 @ 16"	3.3	
	CEILING	5.0	
	MISC.	1.6	
		16.3 ~ 17	
LL		40	57
			102

TRIB AREA = 10'
W = 10 (.102) = 1.02 KLF
R = 1.02 (6/2) = 3.06K
M = 1.02 (6)²/8 = 4.6 K-'

USE 3½" x 8 5/8" TIMBER STRAND LSL

CHECK CAPACITY OF 3x4 STUD 8'-6" Lu
(SEE ATTACHED COMPUTER PRINTOUT.)
STUD O.K.

8482PE
JAN. 23, 2001
JAMES E. KNAUF
EXPIRES: 6-30-0

VLMK Consulting Engineers
3933 SW KELLY AVENUE, PORTLAND, OREGON 97201-4393
(503) 222-4453 / FAX (503) 248-9263

JOB NAME EAST HALL RM 212
JOB NO.
SHEET NO.

WOOD [illegible] L DESIGN

DESIGN SUMMARY:

h = 8.5 ft.
P = 4,600 plf
ω = 5 psf
3 X 4 Sel. Struct. @ 12 " O.C.
INTERACTION = 0.842 <= 1.0 OK

DESIGN VALUES:

Gr. = Sel. Struct.	LUMBER GRADE USED
= VG	VISUALLY GRADED (VG) OR MACHINE STRESS RATED (MSR)
F_b = 1,450 psi	ALLOWABLE BENDING STRESS
F_c = 1,700 psi	ALLOWABLE COMPRESSIVE STRESS
E = 1,900,000 psi	MODULUS OF ELASTICITY

ADJUSTMENT FACTORS:

C_d = 1.33	LOAD DURATION FACTOR
C_f = 1.5	SIZE FACTOR FOR BENDING
C_f = 1.15	SIZE FACTOR FOR COMPRESSION
C_r = 1.15	REPETITIVE USE FACTOR

CALCULATIONS:

f_c = 526 psi — ACTUAL COMPRESSIVE STRESS PARALLEL TO GRAIN

$F'_c = F_c * C_d * C_f * C_p$

F_{cE} = 671 psi
F_c^* = 2600 psi
c = 0.8
C_p = 0.243 — COLUMN STABILITY FACTOR

F'_c = 631 psi — ALLOWABLE COMPRESSIVE STRESS PARALLEL TO GRAIN

f_b = 106 psi — ACTUAL BENDING STRESS

$F'_b = F_b * C_d * C_f * C_r$

F'_b = 3,327 psi — ALLOWABLE BENDING STRESS

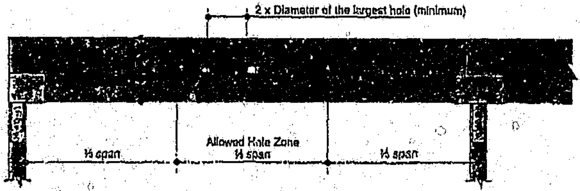
INTERACTION EQUATION:

$$[f_c / F_c]^2 + [f_b / (F'_b [1 - (f_c / F_{cE})\}] <= 1.0$$

0.695 + 0.147 = 0.842 <= 1.0 OK

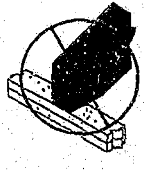
FrameWorks® Header 3½" TimberStrand® LSL

ALLOWABLE HOLES



DO NOT cut, notch or drill holes in TimberStrand® LSL except as indicated in chart and illustration.

Do not over hang seat cuts on TimberStrand® LSL from inside face of support member.



Exceptions may be possible. Contact your Trus Joist MacMillan representative for assistance.

GENERAL NOTES:

1. The Allowed Hole Zone in this chart is suitable for uniformly loaded headers using maximum loads for any tables listed in this brochure. For other load conditions or hole configurations, please contact your *Trus Joist MacMillan representative.*
2. If more than one hole is to be cut in the header, the *length of the uncut header between holes must be a* minimum of twice the diameter of the largest hole.
3. Rectangular holes are not allowed.
4. Holes in cantilevers require additional analysis.

ROUND HOLE CHART

HEADER DEPTH	MAXIMUM ROUND HOLE SIZE
[illegible]	1"
[illegible]	1½"
[illegible] through 10[illegible]	2"

See illustration for Allowed Hole Zone.

DESIGN PROPERTIES

3½" TimberStrand® LSL

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	1,775	2,685	4,550	6,335	7,620	10,520	15,440	21,135	27,270	34,140
[illegible]	2,910	3,660	4,820	5,735	6,320	7,480	7,895	9,310	10,640	11,970
[illegible]	24	49	111	187	250	415	490	800	1,195	1,700
[illegible]	4.5	5.6	7.4	8.8	9.7	11.5	12.7	15.0	17.[illegible]	19.3

TimberStrand® LSL ALLOWABLE DESIGN STRESSES (100% Load Duration)

			1.3E TimberStrand® LSL	1.5E TimberStrand® LSL
Modulus of elasticity	E	=	1.3×10^6 psi	1.5×10^6 psi
Flexural stress	F_b	=	1700 psi(1)	2250 psi(1)
Compression perpendicular to grain parallel to wide face of strands	$F_{c\perp}$	=	650 psi(2)	650 psi(2)
Compression parallel to grain	$F_{c\parallel}$	=	1400 psi	1950 psi
Horizontal shear perpendicular to wide face of strands	F_v	=	285 psi	285 psi

(1) For 12-inch depth. For others, multiply by $\left[\frac{12}{d}\right]^{0.092}$

(2) $F_{c\perp}$ shall not be increased for duration of load.

Product Warranty

Trus Joist MacMillan warrants that its products will be free from manufacturing errors or defects in workmanship and material.

In addition, provided the product is correctly installed and used, the company warrants the adequacy of its design for the normal and expected life of the building. This warranty is backed by the full resources of Trus Joist MacMillan and by underwritten product liability insurance.

Trus Joist MacMillan
200 E. Mallard Drive
Boise, Idaho 83706
1-800-628-3997

Tom Denig, President and C.E.O.

For more information on
the FrameWorks® Building System
please call us at:

1-800-628-3997

Trus Joist MacMillan®
HOME OF THE FRAMEWORKS® BUILDING SYSTEM