

1211 SW 5TH AV.

FA01-160336

FA. 01. 160 336

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OCT 25 2004
MICROFILMED

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CITY OF PORTLAND FACILITIES PERMIT INTAKE

APPLICANT INFORMATION

Applicant: 200 BUILDING ASSOCIATES
 Address: 670 CUSHMAN & WAKEFIELD
1211 SW 5TH AVE
 Phone: 503-224-1193

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

Name: NICK GREENH
 Phone #: 503-221-0100

Contractor Information: TO BID

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

Project Description:

Facility: PAINVEST CENTER
 Installation Address: 1211 SW 5TH AVE
 Project Name: PAINVEST CENTER BUILDING
 Job Description: NEW GROUND RAIL ALARMS
 Bldg Valuation: \$5,000 Project Ref. # 73735

Building Permit #: 01-160336-1A

Occupancy Group: _____	Const. Type: _____
No. Of Stories _____	Flood Plain _____
Erosion Control _____	Alarms Req'd _____
Sprinklers _____	Smoke Det _____
Special Inspection _____	

Bin #: _____
 Building Registration Permit #: 99-12619-FC
 Scan: Karl, Daniel

PLAN INTAKE:

Date: _____ Initials: _____

PERMIT INFORMATION:

Mechanical Permit #: N/A
 A: Valuation: _____ Job Description: _____

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

Electrical Permit #: N/A
 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 over 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 _____
 Occupant Load over 39 Persons _____
 Building over 3 stories _____
 Health Care Facility _____
 Building over 10,000 sq. ft. _____



Office of Planning and Development Review

City of Portland Special Inspections 1900 SW 4th Avenue, Suite 5000 Portland, OR 97201

Structural Special Inspection and Observation Program Checksheet

The architect or engineer of record shall prepare and submit a special inspection and structural observation program in accordance with UBC Section 106.3.5. The architect or engineer of record shall confirm that the special inspection and structural observations noted below are indicated on the plans. Major projects may require that a more complete program be prepared.

~ Please Note that a separate Soils Inspection Form may also be required ~

Instructions -- This Checksheet must be fully completed to obtain your permits

- ⇒ Part B and Part C (if indicated) must be completed by the Owner, Architect or Engineer.
- ⇒ Part D must be signed by the Owner, or Architect or Engineer acting as the owner's agent.

When complete, return to Document Services, attn: Special Inspections, or fax to (503) 823-5434.
The information on this form must be provided before your building permit can be issued.

Application # 01-160336-000-00-FA Date: October 4, 2001
Project Name: ROOF GUARDRAIL-PAC WEST BUILDING
Site Address: 1211 SW 5TH AVE
Architect of Record (Firm) _____ Phone # _____
Engineer of Record (Firm) KPFF Consulting Engineers Phone # (503) 227-3251

The following special inspections and structural observations shall be performed according to the State Building Code and City of Portland Administrative Rules unless a program of inspections is submitted by the Engineer of Record and approved by the Plan Review Division.

PART A

- | | | | |
|---|---|--|--|
| <input type="checkbox"/> Anchors - Adhesive | <input type="checkbox"/> Reinforced Concrete | <input checked="" type="checkbox"/> Structural Steel | <input type="checkbox"/> Wood 5-Story Construction |
| <input type="checkbox"/> Anchors - Cast-in-place | <input type="checkbox"/> Prestressed Concrete | <input type="checkbox"/> Str. Silicone Glazing | <input type="checkbox"/> Fireproofing |
| <input checked="" type="checkbox"/> Anchors - Expansion | <input type="checkbox"/> Shotcrete | <input type="checkbox"/> Masonry fm = | |
| <input type="checkbox"/> Special Cases: | | | |

PART B Mandatory -- If any box in PART A is checked, PART B must be completed

Indicate the City approved inspection agency to perform the special inspections noted in PART A above.

PART C If box below is checked, PART C must also be completed

- ☐ Structural Observation by Engineer of Record. Indicate stages at which structural observation is to occur:

PART D This Checksheet must be signed by the Owner, Architect or Engineer of Record

The owner hereby agrees to employ the special inspector, approved testing agency and/or engineer for the above noted special inspections and/or structural observation.

Signature of Owner or the Architect or Engineer acting as the Owner's Agent _____ Date _____
(Please Note: Contractors are NOT authorized to sign)

Print Name _____ Phone _____

Firm _____ Plans Examiner: Mike Walkiewicz

Yost Grube Hall

Architecture

Fax Transmittal

1211 SW Sch Ave.
Suite 2700
Portland, Oregon
97204-3782 USA
Tel 503.221.0150
Fax 503.295.0940
Email info@ygh.com

To

KARL PHEIFER

CITY OF PORTLAND
PLANNING

Fax No

503.823.6983

Date

10.01.01

No. of pages

7

(Including cover sheet)

Project

PACWEST BLDG LICENSES -
NEW GUARDRAIL

Project No.

73735

From

NICI GRIFFITH

Sent via

Fax

Description

2 PGS. TELEPHONE MENU & COVER SHT. TO M. SENARD

4 PGS. STRUCTURAL CALCS FOR GUARDRAIL

Comments

CALL IF YOU HAVE ANY QUESTIONS.

THANKS!

NICI

Yost Grube Hall

Architecture

Telephone Memorandum

Call Initiator Michelle L. Seward
City Planner, Land Use Review Division
City of Portland

Call Participants Nici Griffith
Yost Grube Hall Architecture

Project Pacwest Center Building Upgrades

Subject Land Use Review (LUR) Application

Date/Time July 31, 2001

Distribution Michelle Seward
Tom Shimota, Property Manager Pacwest Center

1211 SW 5th Ave.
Suite 2700
Portland, Oregon
97204-3782 USA
Tel 503.221.0150
Fax 503.295.0840
Email info@ygh.com

This is a memorandum confirming the phone conversation between Michelle Seward and Nici Griffith regarding building upgrades to the Pacwest Center. Per Michelle, the City of Portland is exempting the proposed rooftop guardrail from design review. The exemption is allowed because the guardrail installation is required to upgrade the building to meet OSHA, Oregon Occupational Safety and Health, standards. Michelle noted that Jeff Joslin, City of Portland Design Division, could be contacted regarding this issue if any questions are to arise.

Please contact me if there are any discrepancies noted in this memo.

Yost Grube Hall

Architecture

1211 SW 5th Ave.
Suite 2700
Portland, Oregon
97204-3782 USA
Tel 503.221.0150
Fax 503.295.0840
Email Info@ygh.com

Fax Transmittal

To

MICHELLE SENARD
LAND USE REVIEW DIVISION
CITY OF PORTLAND

Fax No

503.823.7919

Date

08-02-01

No. of pages

2

(Including cover sheet)

Project

PACWEST CENTER

Project No.

73703

From

NICI GRIFFITH

Sent via

Fax

Description

1 pg. TELEPHONE MEMO

Comments

MICHELLE -

THIS IS NOT TO DOCUMENT OUR CONVERSATION.
THANKS FOR YOUR HELP.

NICI



September 17, 2001

Ms. Nici Griffith
Yost Grube Hall Architecture
1211 SW Fifth Avenue, Suite 2700
Portland, Oregon 97204

RE: PacWest Center Building Upgrades - Roof Guardrail

Dear Nici:

Attached please find calculations, sheets 1 through 3, dated August 2001, which verify the structural adequacy of the roof guardrail at the PacWest Center, as shown on drawing A2.1, dated September 11, 2001. Design is based on the requirements of the 1997 Uniform Building Code, as amended by the State of Oregon.

If you have any questions or need further information, please call me.

Sincerely,

A handwritten signature in cursive script, appearing to read "Craig Totten".

Craig Totten, P.E., S.E.
Associate

CJT/jkd

2013181061e letter - 09-17-01.doc



kpff

Consulting Engineers

Portland, Oregon

Project PACWEST GUARDRAILBy CJT

Location

Date 8/01

Client

Revised

Job No.

Date

OSMA MAILPER YGH RAILS $\leq 2\frac{3}{8}"$ ap.WT PER SECTION $\leq 350\#$

$$M_{\text{RAILS}} = 200\# \times \frac{42}{12} = 0.7^{1K}$$

$$M_n = 0.7 \times 1.7 = 1.2^{1K}$$

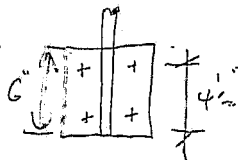
$$A_s \text{ REQ'D} = \frac{1.2}{4 \times 1.25} = 0.238 \text{ in}^2 \Rightarrow 6 \times 6 - W1.4 \times W1.4$$

$$\frac{0.238}{0.028} = 8.5'$$

\uparrow
 $\frac{1}{2}$ TOPPING SLAB

 \Rightarrow SAY O.K. CONS. ANALYSIS

END R:



$$\Rightarrow T_{\text{BOLTS}} = 0.2 \times \frac{42}{4} = 2.1^K$$

$$\Rightarrow T = \frac{2.1}{2} = 1.05^K/\text{BOLT}$$

INCREASE R WEIGHT TO $7\frac{1}{2}"$

$$\Rightarrow T_{\text{BOLT}} = 0.2 \times \frac{42}{(5.5 \times 2)} = 0.76^K/\text{BOLT}$$

$$\Rightarrow \text{SAY } \underline{3/8" \phi \text{ SS. BOLTS w/ } 2\frac{1}{2}" \text{ EMBED}} \\ T_{\text{ALLOW}} = 1.025^K \text{ (w/ SPEC. INSP.)}$$

SPACING = 5" MIN.

$$M_R = 2.5 \times 0.76^K = 1.9^K$$

$$\phi_b = \frac{1.9}{3 \times \frac{1}{6}} = 3.8^{100\%} \Rightarrow \text{O.K.}$$

kpff Consulting Engineers

Partnership

Project	OSHA Rail	By	CJT	Sheet No.
Location		Date		2
Client		Revised		Job No.
		Date		

Main Rail: TRX 12' SPACING

$$M = 0.2 \times \frac{12}{4} = 0.6^{1K}$$

$$+ 0.005 \times \frac{12^2}{8} = \frac{0.09^{1K}}{0.7^{1K}}$$

$$S_{req'd} > \frac{0.7 \times 12}{0.66 \times 35} = 0.35 \Rightarrow 1\frac{1}{2}'' \text{ SCH. 80}$$

$$S = 2.412$$

$$I = 0.39$$

$$\Delta = \frac{0.2 \times (12 \times 12)^3}{48 \times 29000 \times 0.39}$$

$$= 1.09''$$

$$\frac{D}{t} = \frac{1.9}{\frac{2}{27}} = 9.5 \quad \frac{3300}{1.9} = 91 \Rightarrow \text{O.K.}$$

For 6'-0" OVERHANG:

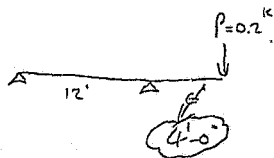
$$M = 6 \times 0.2 = 1.2^{1K}$$

$$+ 0.005 \times \frac{6^2}{2} = \frac{0.09^{1K}}{1.3^{1K}}$$

$$S_{req'd} > \frac{1.3 \times 12}{0.66 \times 35} = 0.66^{1K}$$

$$\Rightarrow 2'' \text{ SCH. 80} : S = 0.731$$

$$I = 0.868$$



$$\Delta = \frac{Pa^2}{3EI} (L+a)$$

$$= \frac{0.2 \times (6 \times 12)^2}{3 \times 29000 \times 0.868} (12+6)(12)$$

$$= 3'' \Rightarrow \text{Too much!}$$

4' OVERHANG:

$$\Delta = \frac{0.2 \times 48^2}{3 \times 29000 \times 0.868} (12+4)(12)$$

$$= 1.17'' \Rightarrow \text{SAY O.K.}$$

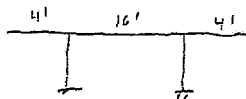
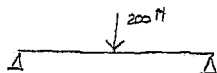


Consulting Engineers

Portland, Oregon

Project	By	Sheet No.
Location	Date	3
Client	Revised	Job No.
	Date	

CHECK HORIZONTAL RAIL FOR 41'-16'-41" SPACING



$$M = \frac{PL}{4} = \frac{0.2k(16')}{4} = 0.8k\text{-ft}$$

$$M = \frac{wL^2}{8} = \frac{0.005\text{ k}(16')^2}{8} = 0.16k\text{-ft}$$

$$= 0.96k\text{-ft}$$

$$S_{REQ'D} = \frac{M}{F_b} = \frac{0.96k\text{-ft}(12\text{ in/ft})}{0.66(36k\text{si})} = 0.486\text{ in}^3 \Rightarrow 2\frac{1}{2}\text{ SCH } 80$$

$$S = 0.73\text{ in}^3$$

$$\Delta = \frac{0.2(16' \times 12\text{ in/ft})^3}{48(29,000)(0.868)} = 1.17" < 3" \Rightarrow \text{OK}$$

$$I = 0.868\text{ in}^4$$

$$\frac{D}{t} = \frac{1.9"}{0.2"} = 9.5$$

$$\frac{3300}{F_y} = 91 > 9.5 \Rightarrow \text{COMPACT} \Rightarrow \text{OK}$$

H'-O' OVERHANG \rightarrow SEE PREVIOUS CALCS