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3028/4

GT-003604

Hoffman Construction Company of Oregon

Letter of Transmittal

First Presbyterian Church

Date: 5/4/2005

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DOCUMENT SERVICES

Client: First Presbyterian Church
Project Name: First Presbyterian Church Parking Garage
Project No.: 2550004
Location: Portland, OR

T = Transmittal Only
X = Entire Package

Job Site Address:
Hoffman Construction
1200 S.W. Alder
Portland, OR 97205

HCC / IA / PW

—	Jim Dill, HCCo	—	First Presbyterian - Harold	—	Total # of Pages 4
—	Dan Gorie, HCCo	—	Hennebery Eddy -David Webb	—	Ming Surveyors
X	File Copy	—	KPFF - Julie Hays	—	Testing
T	Routing/Posting	—	Perron Arch - Jim Perron	—	KPFF - Mark Reuland - 274-4681
—		—	Glumac	—	
—		—	GEOCON - Wes Spang	—	

SUBCONTRACTOR / VENDORS

F=Field O=Office

F	O		F	O		F	O	
		Malcolm Drilling - Don Kingsbury			Roofing			Tri Met - John Whipple
		Coffman Excavation - Jake Asmus			Decking			City Water - Don Pierman
		Apex - Ron Stocker			Framing/Sheetrock			City Sidewalks - Dana Dister
		Nuprecon - Bryan DiLoreto			Doors and Frames			Urban Forestry - Frank Krawczyk
		Dynalectric - Sean Cox			Elevators			NW Natural - Phillip Toth
		Whitaker Ellis - Bill Ellis			Fire Extinguishers/Specialites			Pacific Power - John Moudy
		Temp Control - Dave Mayer			Bike Racks/Specialties			City Signal and Lights - Lisa Elbert
		Star Masonry - Kelly Nelson			Fire Sprinkler			City Sanitary - Patty Oliver
		Handrail			Steel		X	City of Portland - Andy Peterson
		Striping			Interior Tech - Ron Holden			BDS - Document Services
		Garnette 1- (480) 899 5367						attn: Rich Eisenhauer

QTY	DATE	DESCRIPTION
	05/04/05	Mr. Peterson
		Attached is Geocons Response to a verbal request from Mike Walkiewicz. A checksheet
		was not issued so I do not have one to return. Please see attached. If you have any
		questions please contact me at 503-720-1353.
		Thanks

Please Note:
If you believe the attached document(s) results in an increase or decrease in your contract amount or schedule, you are required to notify Jim Dill, at HCCo in writing within 7 calendar days of the date of this transmittal. Your notification may be submitted by mail to the HCC jobsite or by fax. Any request for charge must include a detailed cost breakdown. Silence on this matter will result in a "no-cost" modification to your contract.

☐ For Approval	☐ No Exceptions Noted	☐ Submit Items Noted
☐ For pricing	☐ Make Corrections Noted	☐ For Construction
☐ For Coordination	☐ Revise and Resubmit	☒ For Your Use
☐ For review and comments	☐ Price prior to proceeding	☐ Other:

Comments:

Signed:

Rodney Myrick, HCCo Project Engineer
503-720-1353
Fax: 503-221-0559
Email: rodney-myrick@hoffmancorp.com

04-040238-EXC-1-00

Geocon Northwest
8283 SW Cirrus Drive
Beaverton, OR 97008
Phone No (503) 626-9889
Fax No. (503) 626-8611

Fax Transmittal

TO: Julie Hays/Rodney Myrick
COMPANY: kpff/Hoffman
FAX NUMBER: 503-227-7980/503-221-0559
NO. OF PAGES: 3 (including this page) DATE: 5/3/05

Please find attached the letter for First Presbyterian Church regarding the load capacity of footings and piles.

Let me know if you have any questions.

Sincerely,

Wesley Spang

Wesley Spang, Ph.D., P.E.
Principal Engineer

04-040238-EXC01-CO

GEOCON
NORTHWEST, INC.
GEOTECHNICAL CONSULTANTS

May 3, 2005
Project P1064-05-02

Ms. Julie Hays
KPFF Consulting Engineers
111 S.W. Fifth Avenue, Suite 2500
Portland, Oregon 97204-3628

Subject: FIRST PRESBYTERIAN CHURCH PARKING GARAGE
PORTLAND, OREGON
CONSULTATION

Dear Ms. Hays:

Per your request, this letter has been prepared to discuss the load-settlement relationship of the continuous footings and the pile foundations for the subject project. Perimeter wall loads have been designed to be supported by continuous wall footings and vertical piles that will be used as soldier piles for excavation support and permanent axial load bearing piles.

Both the continuous wall footings and the vertical piles will develop load resistance as a function of movement (settlement). At working loads (i.e. factor of safety of 2 to 3 for bearing capacity) a significant portion of the pile's vertical load resistance will be carried in skin friction. Maximum pile skin friction load transfer is typically developed at movements of approximately 1 to 2 percent of the pile diameter. The soldier pile diameter at First Presbyterian Church will be 18 to 24 inches; this will result in movements of approximately 0.25 inches to 0.5 inches being required to mobilize skin friction load resistance. The remainder of the pile load will be developed by end bearing resistance in the underlying dense gravel at nominal additional movement.

The continuous footings for the project will have widths of 2 to 2.5 feet. Our previous analysis of the footing bearing pressure-settlement relationship indicated that the continuous footings will develop the allowable bearing pressure, 6800 psf to 7400 psf, at settlements of approximately 0.5 inches. This movement is of the same magnitude as the settlement needed to develop the vertical pile load resistance.

It is understood that the structural detailing of the shoring/permanent wall will include headed studs welded the entire length of the pile. This will provide attachment of the pile to the wall. The rigidity of the wall system will provide load transfer to both the continuous footings and the piles. The approximate same degree of settlement is required to mobilize the load resistance of the continuous footings and piles. Therefore, the continuous footings and piles may be designed to support structural loads concurrently.

Please contact the undersigned if you have any questions regarding this letter.

Sincerely,
Geocon Northwest, Inc.

Wesley Spang, Ph.D., P.E.
Principal Engineer

cc: Mr. Rodney Myrick, Hoffman Construction