March 4, 2025

Jim McNamara
Southern Oregon University
1250 Siskiyou Blvd
Ashland, OR 97520

Re: SOU Center for the Visual Arts – Existing Roof Capacity for PV Panels

Dear Jim:

We have completed the structural evaluation of the existing roofs of the Art and Commons buildings to support PV panels. The evaluation included the existing steel roof trusses, framing members, structural roof decking, and the connection of the existing standing seam decking to metal roof decking. We understand the PV panels will be Silfab Solar's SIL-520 XM Bifacial panels weighing 2.3 psf and will be attached to the existing standing seam decking using aluminum rails and an S-5 Clamp system.

The evaluation was based on the requirements of the 2022 Oregon Structural Specialty Code (based on 2021 IBC). Our analysis relied on existing structural drawings, site photos, and field measurement of screw spacing provided by SOU.

Our findings confirm that the existing roofs of the Art and Commons buildings are capable of supporting above outlined PV system provided the minimum S-5 clamp spacing be as noted on attached site plan. The indicated minimum clamp spacing is required due to limited screw connections of the existing standing seam to the structural roof decking. The increased clamp layout will help spread the load more uniformly to the existing screws.

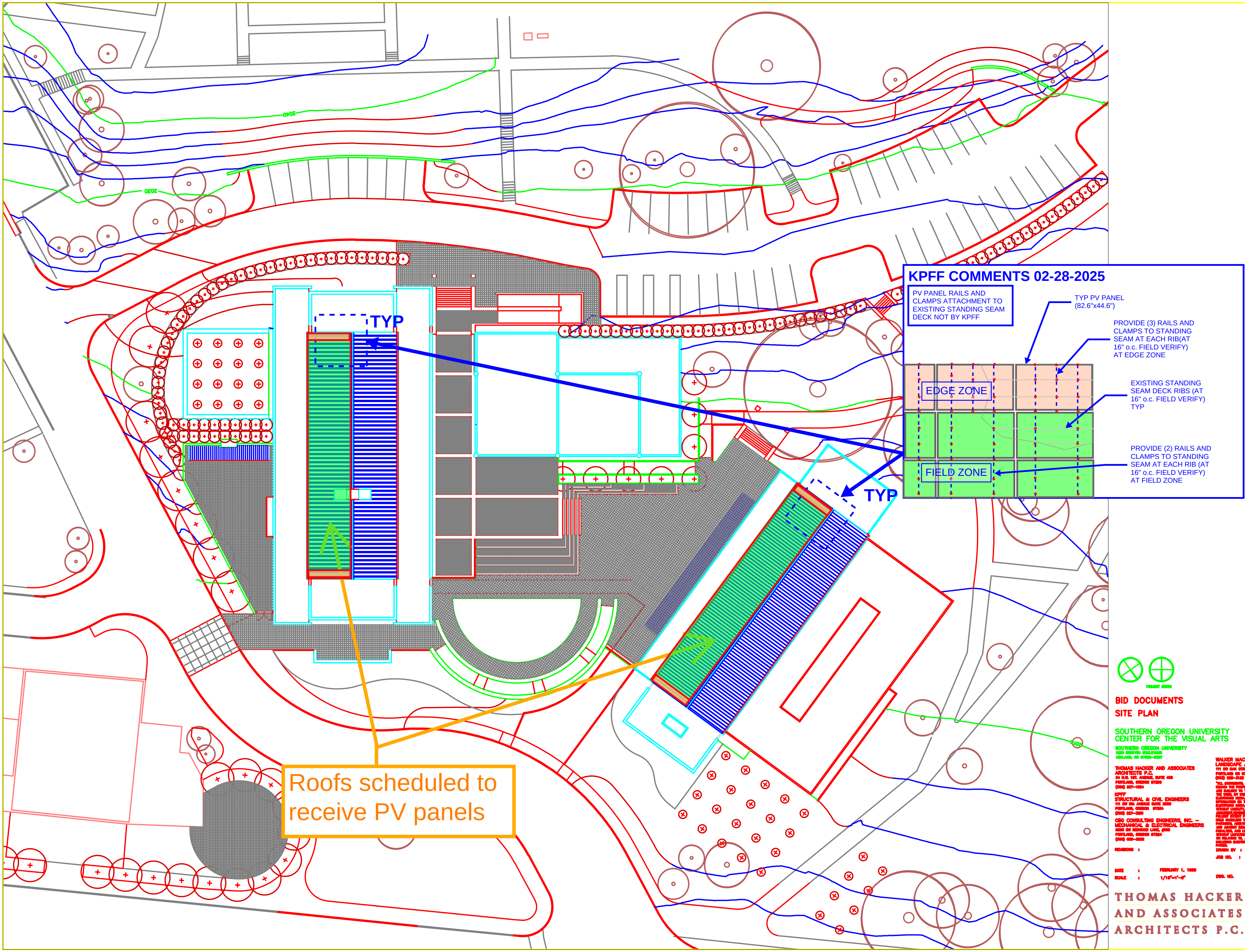
Engineering of the PV panels, rails, and clamps is by others.

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

Sincerely,

Chris Tung, PE, SE LEED AP
Associate

Project No. 10022500087



PROJECT NORTH

BID DOCUMENTS

SITE PLAN

SOUTHERN OREGON UNIVERSITY
CENTER FOR THE VISUAL ARTS

SOUTHERN OREGON UNIVERSITY

THOMAS HACKER AND ASSOCIATES ARCHITECTS P.C.

KPFF
STRUCTURAL & CIVIL ENGINEERS

CBG CONSULTING ENGINEERS, INC. – MECHANICAL & ELECTRICAL ENGINEERS

WALKER MACY
LANDSCAPE ARCHITECTS

REVISIONS :

DRAWN BY : XXX

DATE :

SCALE : 1/16"=1'-0"

DWG. NO. A1.1

THOMAS HACKER
AND ASSOCIATES
ARCHITECTS P.C.