



Gustavus Adolphus College Nobel Hall Addition and Renovation St. Peter, Minnesota

The project will include space for an auditorium, large and small classrooms, science labs, a greenhouse, an experimental theatre and faculty office space. The use of cast in place concrete moment frames for the lateral system allowed for the elimination of diagonal bracing or shear walls creating a highly flexible floor plan.

The 93,000 sf addition will wrap around a 100,000 sf existing concrete frame and connect to two other existing buildings. A cast in place concrete frame was selected for the new construction as the most economical way to deal with vibration mitigation in the science labs and to match the existing floor framing depth. The new construction is isolated from the existing system by expansion joints and is designed laterally independent. The lateral system consists of moment frames maximizing the flexibility of the floor plans due to the lack of need for diagonal bracing or shear walls.

There are several long span conditions in the project. This includes framing over the auditorium and the experimental theatre as well as the connector bridge to nearby Olin Hall.

The building envelope consists of stone and curtain wall. A series of cladding backup design criteria elevations are included with the structural drawings to provide the architect and all affected bidders with the necessary information to understand the structural deflections to be accommodated and the assume attachment points for the structural design.

Owner: Gustavus Adolphus College

Architect: Hastings and Chivetta Architects, St. Louis, MO

Building Construction Cost: \$49,000,000

Square Footage: 193,000 total

