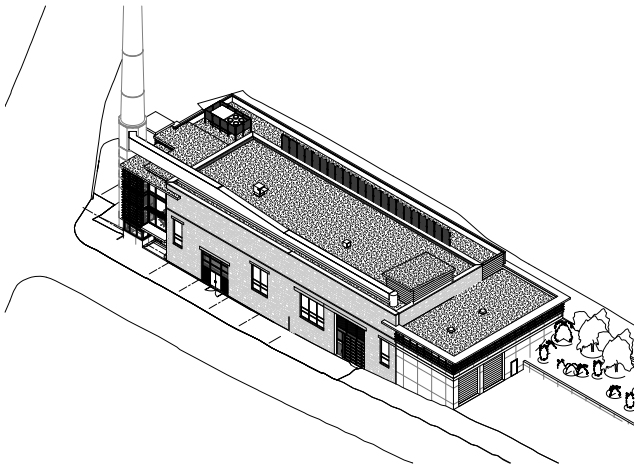


CENTRAL PLANT BIO-FUEL CONVERSION

BLOOMSBURG UNIVERSITY

Bloomsburg, Pennsylvania

The conversion of a State University's campus central heating plant from coal to a more sustainable/renewable "wood chip" fuel source is a complex endeavor - a significant capital investment - and something worth celebrating. The design team leading this transformation developed an engaging and visually stimulating concept for the 2,000 square foot addition and 3,000 square feet of interior space being renovated. The \$12 million project (currently under construction) is intended to meet campus wide "green" sustainable goals and reduce annual operational costs.



The Architect's design capitalized on this project opportunity - and provides for an educational experience within the Central Plant Bio-fuel facility to students, parents, faculty, staff and visitors - to see firsthand the campus commitment to environmental stewardship. To that end, the architectural design (safely) weaves a new "visitor's catwalk" above the Boiler Room floor with information panels describing the "wood chip" fuel utilization process as the boilers and maze of piping are viewed "up close and personal". Daylight harvesting, green roofs and the use of local and reused materials throughout new and renovated areas will contribute to a pervasive sense of environmental responsibility - for the project - and for the University.

New wood and glass additions to the existing stone building including an exterior (fsc certified) wood canopy at the main entrance will bring a new materiality reinforcing the transformation from the coal/electric heat generating process to the sustainable wood byproduct system. The new main entry and support areas - including the new stairs, elevator, offices, meeting room, break room for employees, and new (accessible) restrooms - will also incorporate sustainable materials and methods - will vastly improve the working conditions for University employees - and also provide spaces for visitors on the plant tours. The glass and concrete addition on the east end of the building will provide the necessary space for larger trucks to offload and store the biofuel materials (the wood chips).

This design transforms an aging coal plant into a modern biofuel facility in a visibly interactive approach which coincides with Bloomsburg University's desire for sustainability and energy efficiency. Infrastructure support and utility buildings - such as campus central plant structures, rarely receive much architectural design attention - and are typically "utilitarian" (as the name suggests). For this project, the Architect's intention was clear - "to acknowledge and express the university's commitment to environmental responsibility" with a thoughtfully planned, elegantly detailed design - that also provides for an engaging experience for all who work there or visit.

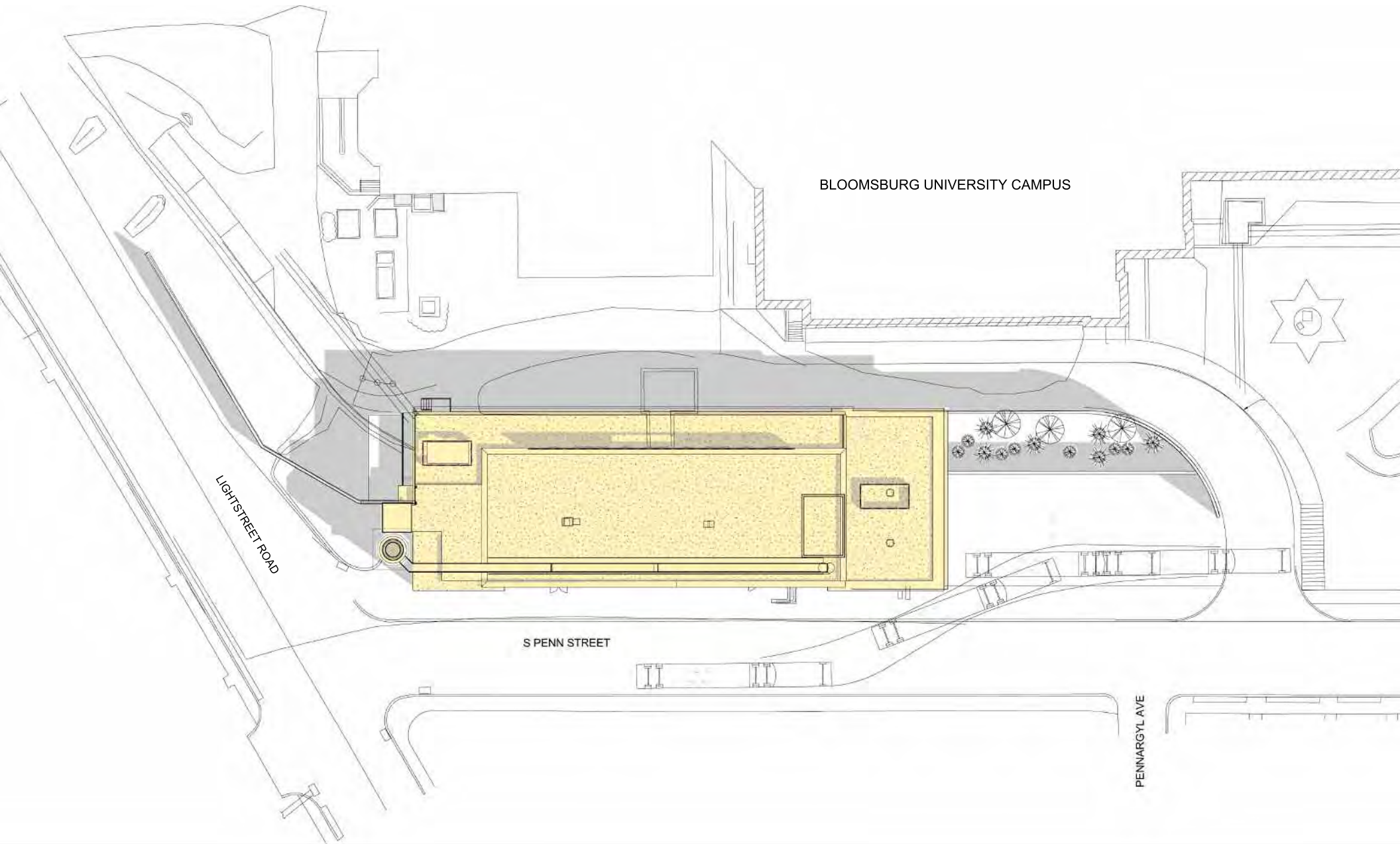


New Exterior Design & Existing Campus Central Plant





Interior Views of Existing Campus Central Plant



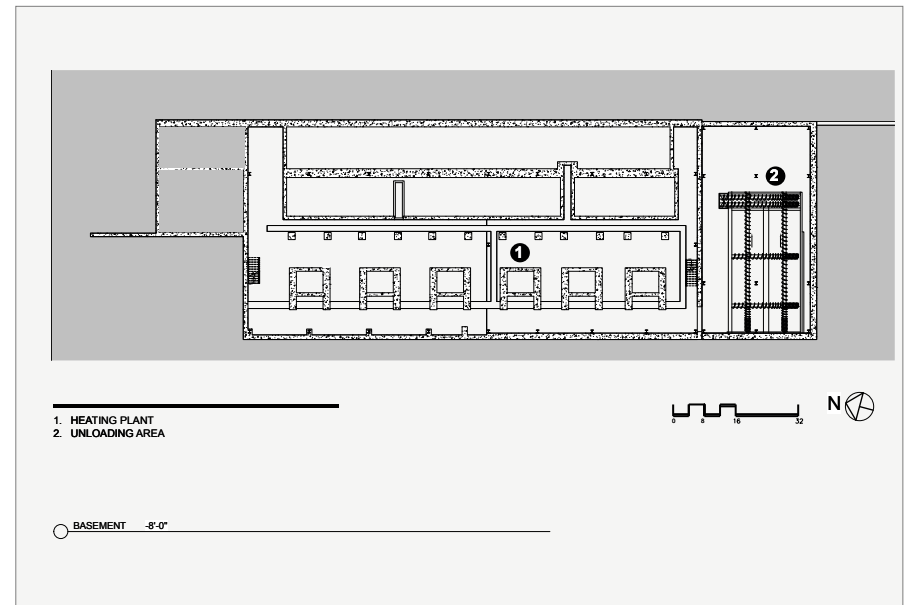
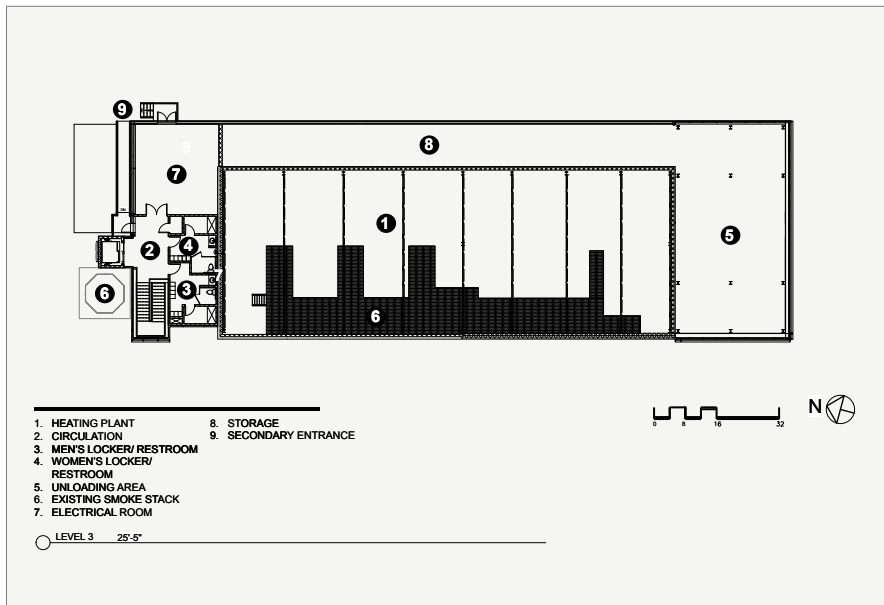
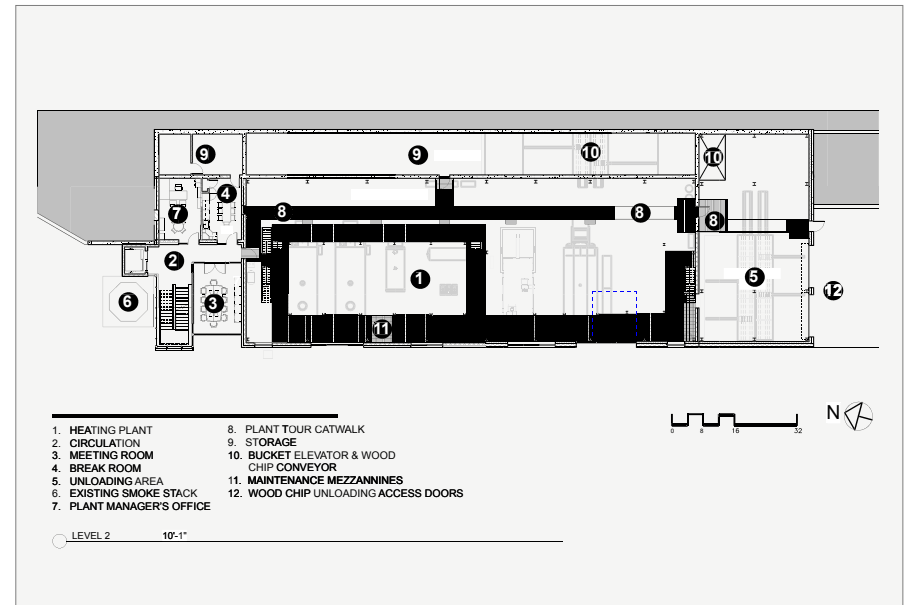
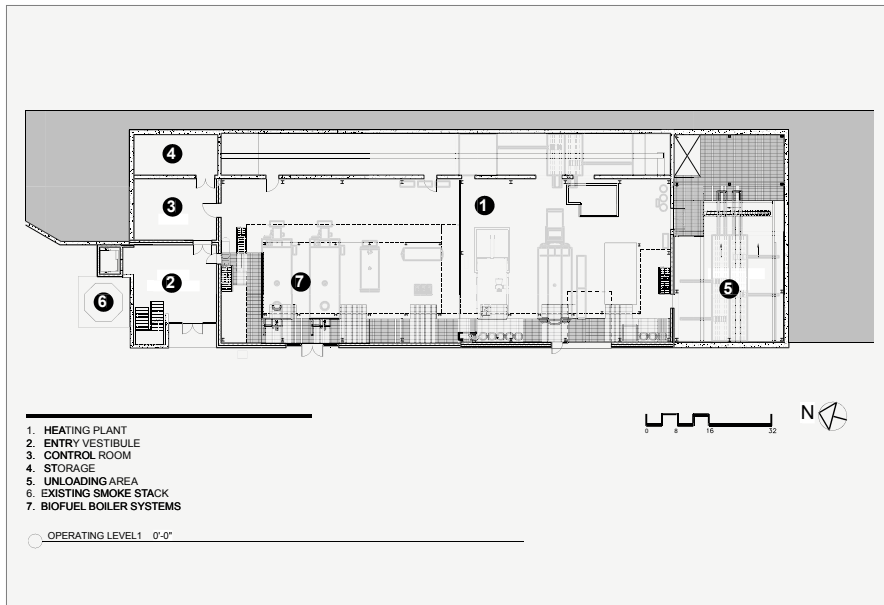
BLOOMSBURG UNIVERSITY CAMPUS

LIGHTSTREET ROAD

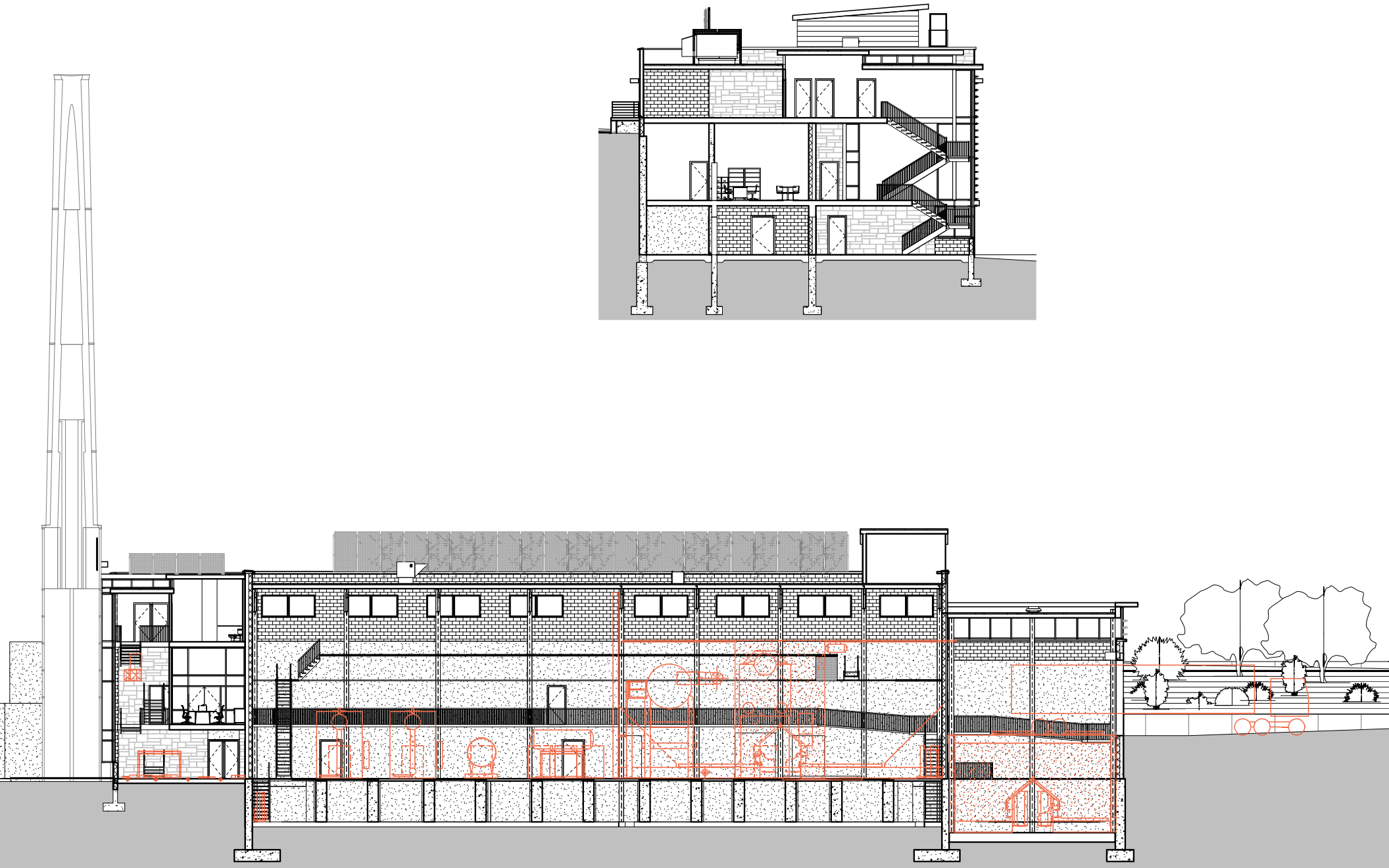
S PENN STREET

PENNARGYL AVE

Site Plan



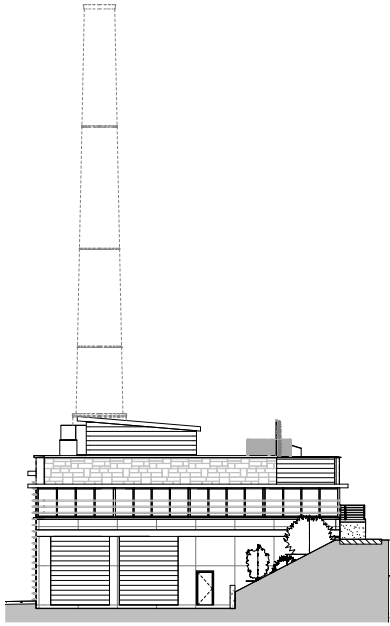
Floor Plans



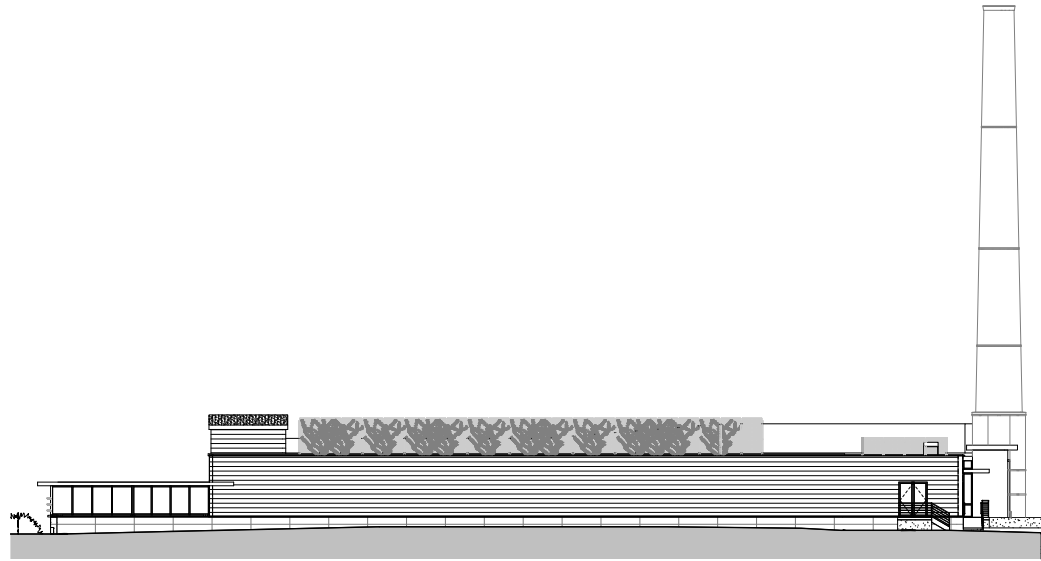
Building Cross Sections



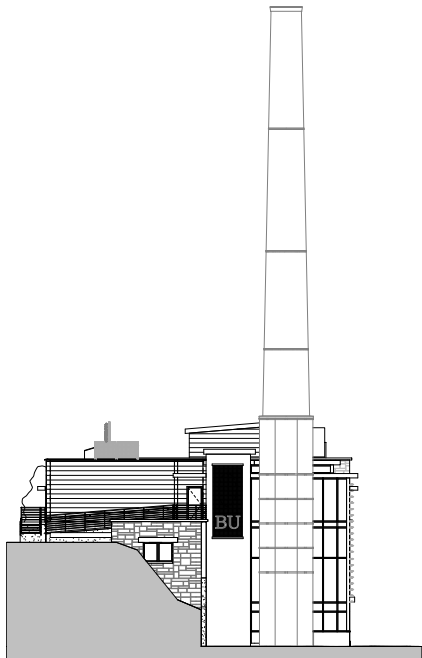
Visitors Platform (above) & Bio-Fuel Off-Loading (below)



East Elevation



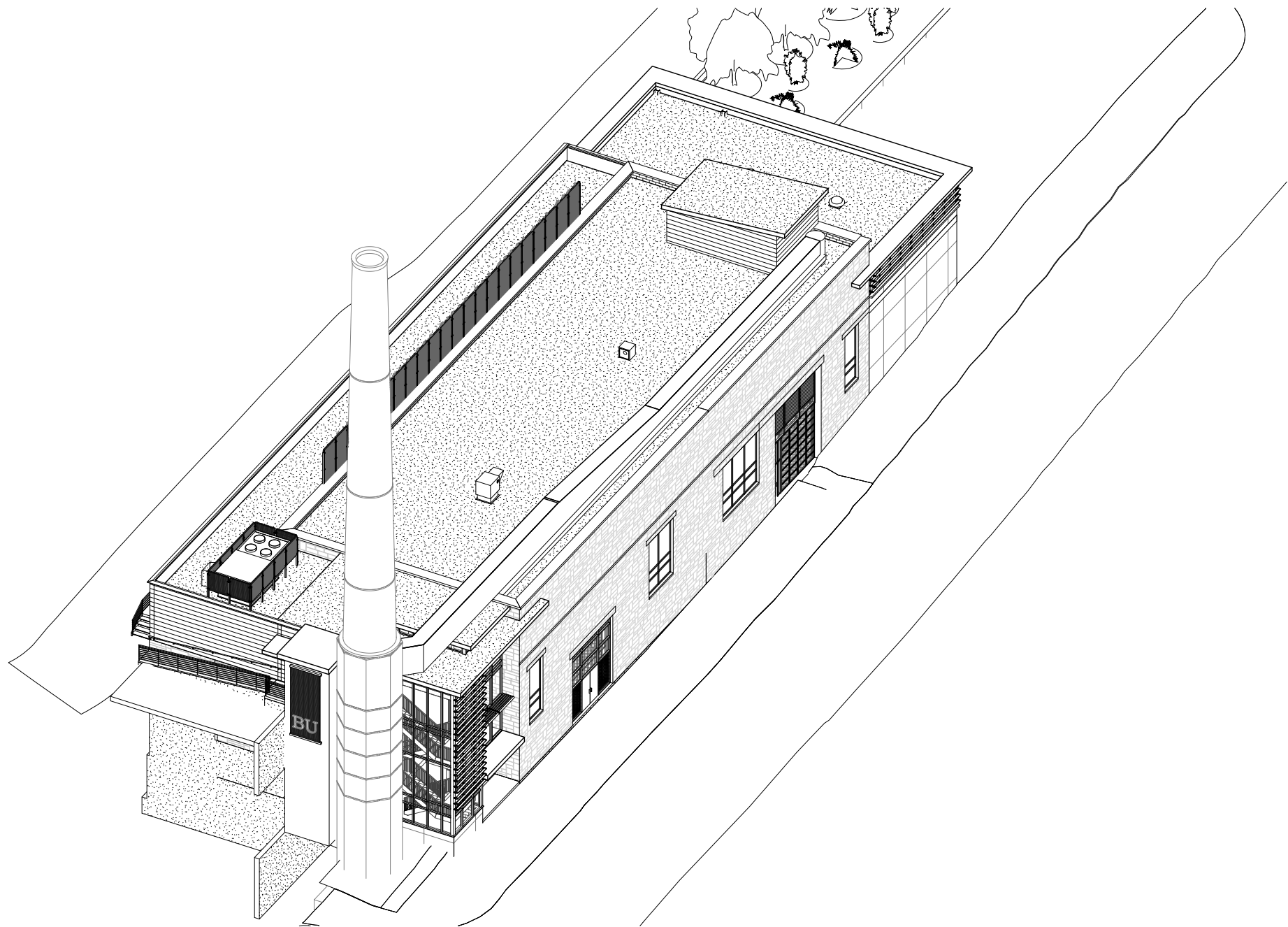
North Elevation



West Elevation



South Elevation



Axonometric Looking East



Entrance Perspective