

Featured Project

Abbey of New Clairvaux

Vina, California

ArcSine Engineering provided master planning and site-wide power distribution for a campus of eight existing buildings and nine planned buildings, totaling 55,000 square feet. Renovation designs utilized Cistercian architecture and original stones from a 12th Century Spanish Cistercian monastery, purchased and dismantled by William Randolph Hearst in the 1930's, and ultimately given to the Abbey of New Clairvaux in 1992. The design also included decorative lighting intended to subtly enhance the period architecture, including fiber optic fountain lighting.

**Power Distribution
Lighting
Utility Coordination
Construction Services**

ArcSine Engineering's work included the following:

- Field investigation of the existing power distribution system and lighting.
- Coordination with Abbey staff and architect to establish design criteria.
- Development of multi-phased construction and cutover sequencing.
- Demolition drawings for power distribution, data, telephone, and lighting.
- Contract drawings for power distribution, data, telephone, and lighting design.
- Design of standby generator system and automatic transfer scheme to provide facility-wide backup power.
- Phase 1 construction engineering services including: answering bidders' questions, preconstruction meeting, submittal reviews, construction observation, and a final walk-through to develop a Contractor's punchlist.
- The facility was occupied and had to maintain its current operating schedule. Detailed coordination, design phasing, and demolition work had to be coordinated throughout the design and construction process to maintain business operations. All project objectives were met.

