

Penguin Point and Legends of the Wild

Akron Zoo, Akron, Ohio



Mechanical Systems

- Temperature controls for temperature and humidity
- Controls for lighting system in animal cages
- HVAC systems for exhibits, keeper spaces and offices
- Packaged air-cooled chiller
- Outside air ventilation
- Rapid flow sand filtration
- Sand filtration for recirculated water
- UV/bromine disinfection system for pools
- Nelson drinkers and water licks
- Gas-fired domestic water heaters
- Continuously tempered water for each exhibit's specific requirements
- Animal hot and cold rocks
- Fully sprinkled fire protection system
- Ducted ventilation and exhaust system
- Exterior automatic wash-down system
- Fogging system and watering system using reverse osmosis water and provides misting for humidity levels and to promote healthy plants
- Plumbing and piping systems
- Sanitary and storm sewer systems
- Waste and vent systems



Major Program Spaces

- Penguin Point (viewing areas aboveground and under water)
- Legends of the Wild (including Madagascar Market, lemurs, snakes and flamingo exhibits)
- Pere David Deer exhibit
- Tamarin exhibit
- Ruin Yard (including llama and condors)
- Meso American exhibit (a multispecies exhibit, including cranes, snow leopards, Himalayan tahr, jaguar, capybara, bats and insects)
- 70 foot waterfall and 50,000-gallon main pond

Penguin Point houses Humboldt penguins, an endangered warm weather species from South America. Design features include filtration and disinfection systems for multispecies exhibits as well as fogging and misting systems to provide correct humidification and to promote plant health.

Conservation Canyon is a multispecies exhibit featuring the highest waterfall in Ohio, ponds and animal holding buildings.

Alvine Aquatics provided the mechanical and electrical systems design for the third and fourth phases of this five-phase project on a 2.25-acre site at the Akron Zoo. These phases were completed in 2005.

Electrical Systems

- Emergency generator and distribution for animal life support and critical systems.
- Pool lighting
- Exhibit lighting
- Theme interior and exterior lighting
- Waterfall lighting
- Indoor plant lighting
- Interior and exterior power