



Behavioral Health Institute – New Forensic Unit



ABOUT THIS PROJECT:

Market Segment:
General Construction

Architect:
Studio Southwest Architects

Products Used:
Xypex Admix C-500

Location:
Las Vegas, New Mexico, USA

Owner:
State of New Mexico

Concrete Producer:
BTU Block and Concrete

The State of New Mexico is developing a new Forensic Unit at the New Mexico Behavioral Health Institute in Las Vegas, New Mexico, to replace aging infrastructure and expand statewide capacity for forensic mental health and competency restoration services. The approximately 115,000 square foot facility is designed to provide a modern, secure treatment environment while supporting long-term operational efficiency and enhanced safety.

The project includes extensive below grade construction requiring durable concrete protection against groundwater infiltration. Given the critical nature of the facility and long service life expectations, the design team selected an integrated waterproofing solution to enhance concrete durability and reduce future maintenance needs.

Approximately 1,100 cubic yards of concrete incorporating Xypex Admix C-500 were placed for below grade structures. Added at the time of batching, the crystalline admixture reacts with moisture and unhydrated cementitious materials to form insoluble crystals that reduce permeability and limit water ingress throughout the concrete section.

The use of Xypex Admix C-500 provided permanent, through section waterproofing protection without reliance on surface applied membranes. This approach supports long term durability, minimizes lifecycle maintenance requirements, and contributes to reliable performance of critical healthcare infrastructure.

