

NEW US CONSULATE COMPOUND



TIJUANA, BAJA CALIFORNIA, MEXICO

GOVERNMENT

MULTI-BUILDING EFFICIENCY

The new US Consulate Compound includes a vast array of Reliable Controls equipment, used to allow for efficient operation of the buildings within the compound. This is one of two US Department of State diplomatic posts within one mile of the US-Mexico border.

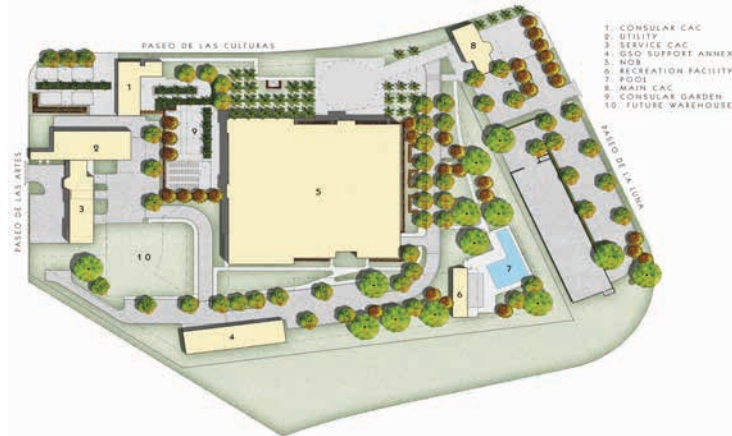
PROJECT DETAILS

Reliable Controls Authorized Dealer, BT Controls recently completed a new construction project featuring Reliable Controls products throughout a new, US Consulate Compound in Tijuana, Mexico. Situated on a 10-acre site, the multi-building complex provides a state-of-the-art, LEED® targeted workspace.

The networked hardware in this project includes a main network consisting of a wide selection of Reliable Controls equipment (see list on right), and the installed, third-party, mechanical equipment includes 10 air handling units and 3 chillers. BACnet integration involved the 3 chillers, as well as a third party MODBUS fuel system and 20 power meters. During the project, the water meter pulse count was a challenge, and as a result, BT Controls used the MACH-Stat Controller ND to resolve the issue.

As the hub of one of the busiest American consular districts in the world, the US Consulate General in Tijuana has historically been home to long lines of visa applicants for years; however, after 47 years in the same location, this new compound across town provides greater efficiency and tighter security and the long lines have vanished as a result. The building automation system allows the facility manager to monitor, control, and optimize the mechanical system by viewing systems efficiency and energy consumption, scheduling equipment runtimes, and curtailing systems when not required.

To learn more about projects using Reliable Controls® visit www.reliablecontrols.com/projects/overview



PROJECT TYPE:

New Construction

INSTALLATION TYPE:

Chiller, CO₂ Monitoring, Fan Coil Unit, Heatpump, HVAC, Power Monitoring, Smoke, VAV, Water Monitoring, Fuel Oil Monitoring

TOTAL AREA:

11,000 m² (118,403 ft²)

EQUIPMENT INSTALLED:

1 MACH-Global Smoke Control™, 2 MACH-ProCom™, 28 MACH2™, 14 MACH-ProZone™, 13 MACH-ProAir™, 192 MACH-AirT™, 11 MACH-Zone™, 203 SMART-Sensor with LCD™, 2 SPACE-Sensor Temperature with CO₂™, 1 SPACE-Sensor Temperature™, 2 MACH-Stat Controller™, 1 MACH-Stat Controller ND™

NETWORK:

EIA-485

INTEGRATION:

BACnet®, MODBUS

TOTAL SYSTEM POINTS:

> 1500 points

RELIABLE CONTROLS® DEALER:

BT Controls

