

Control Technologies, Incorporated

ADVANCED BRIDGE CONTROL SYSTEM



Control Technologies, Inc.
developed an
Advanced Bridge Control System
for the Chesapeake Bay Bridge
for the
Maryland Transportation Authority.

The Chesapeake Bay Bridge is officially called the William Preston Lane, Jr., Memorial Bridge. Popularly called the "Bay Bridge", this facility near Annapolis crosses the Chesapeake Bay as part of US-50/US-301. The bridge's dual spans provide a direct connection between Maryland's Eastern Shore recreational and ocean regions and the metropolitan areas of Baltimore, Annapolis, and Washington, D.C. The bridge also forms part of an alternative route from the Delaware Memorial Bridge to the nation's capital.

CTI's OnTIME system provided both the hardware and software to replace and upgrade the existing bridge control system. The system is based on CTI's OnTIME System operating on Windows and ORACLE. The system is client server based and provides the latest in picto-graphics, real time reporting and event processing required to reverse lanes, close lanes, provide Contra Flow

and respond to incidents on both spans of the bridge.

With a shore-to-shore length of 4.3 miles, the bridges are among the world's longest and most scenic over-water structures. The two-lane original span was built in 1952. The parallel structure opened in 1973 and has three lanes for westbound travelers. The original span then became a two-lane roadway for eastbound traffic. All lanes are reversible. Generally, three lanes are thrown in the direction of peak traffic.

The *OnTIME* System provides the MDTA with the baseline hardware and software to support future ITS technologies. CTI has an annual maintenance contract to support the system and is currently upgrading the lane control firmware to the



new ATC controller architecture and the implementation of an IP based protocol.

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