

Providing Solutions for Customer's Unique Challenges

Drawbridge Control Panels



At Simplex, we pride ourselves on being leaders of innovation and are confident in our ability to meet the most complex needs of our customers. **In one such instance, we were contacted by a company contracted to work for a major U.S. city.** They were preparing for a worldwide government forum and needed to install 40 cameras along drawbridges to ensure their security, which would be powered and controlled by our panels. The enclosures required a NEMA 3R rating to protect against rain, snow, and ice, but also

SUCCESS STORY

needed to be vented with fans to safeguard against heat in the summer. Due to the fact that these bridges would rise and fall, this posed a unique challenge in that the enclosures would not maintain vertical positioning. We designed a custom enclosure featuring a sloped top so that rain would run off. A fan and exhaust were incorporated as well, and the bottom of the enclosure included several small holes for draining. **To accommodate the “up” position, we created shrouds to prevent rain from entering through the exhaust or fan, as well as a door eave to prevent rain from pocketing at the top of the door.** To ensure the panel would withstand the movement of the bridge and the constant vibrations caused by trains and cars, we created custom brackets to secure the internal components in place. The final challenge was the inconspicuous nature of this device; These cameras and their control panels were not meant to be seen. In order to take up the smallest amount of space possible, we mounted components onto subpanels attached to the back, sides, top, and bottom of the enclosure. **We even matched the outside color of the enclosure to the color of the bridge using paint specs provided by the city.** When all was said and done, the customer was blown away by our ability to innovate a design that accommodated every requirement of their unique project.



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