

MASTERCARD

SOLAR CANOPY RECONSTRUCTION

PROJECT DETAILS

O'Fallon, Missouri

Project Value: \$1,236,000

Completion: December 2020

- Two 25' steel canopies
- 1,000 solar panels
- Parking lot reconstruction



Mastercard Inc. is a global financial services corporation with its Global Operations Headquarters based in O'Fallon, Missouri. CAC has served as Mastercard's construction partner for the past decade, completing hundreds of projects of a wide range of complexity and value.

Mastercard established a company goal to reach net zero emissions by 2050. A key element of this plan involves solar canopies on the campus, which cover surface parking and provide vital energy sources for operational systems. This significant project involved the demolition and reconstruction of two, 25-foot high steel canopy structures, each with 500 solar panels. The CAC team removed all solar panels, demolished the existing canopies while salvaging critical pieces, built new steel structures and reinstalled the panels at completion.



The canopies were upgraded with a structural drainage system, since no gutters existed previously. Adjacent sections of parking areas were modified to allow for water run-off. A final commissioning of the solar electrical system provided confidence of effective operational requirements and installation.

Mastercard spokeswoman, Julia Marsh, said the solar panels installed in 2020 have generated 1,600 megawatt hours, equivalent to removing 247 vehicles from the road for one year or providing 206 homes with annual electricity use.

