



Client

Metra

Reference

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**Metra
Blue Island Equipment Repair Shop
Roof and Mechanical Systems**

Delta Engineering Group, LLC, was responsible for facility retrofit that included new mechanical systems and ***structural modifications to this facility to accommodate increased roof loadings due to new roof-mounted mechanical equipment.***

Delta's mechanical engineers were responsible for designing a new fume extraction system from diesel engines and a welding system flexible enough to cover the entire repair shop floor and provide maximum head clearance. This involved engineering design services for adding new HVAC system for the shop office and welding fume exhaust system including furnishing of fume hoods, exhaust fans and power supply to these systems, and preparation of specifications, quantity, and cost estimates.

Delta structural engineers designed and provided roof penetration and additional structural supports for a new fume exhaust system placed on the roof, modified the existing steel frame mount for the new air-handling unit, and designed structural hangers for the fume extraction ductwork.

