



# CASE STUDY:

## As-Built Survey - Mackay Sugar Shed

### OVERVIEW

AAM was commissioned by Pierce Engineering (in collaboration with JK Kelly) to provide a 3D “as-built” survey of the inside of a sugar shed in Mackay, Queensland. The shed roof needed to be repaired and it was suspected that other Mackay sugar buildings might also have been affected.



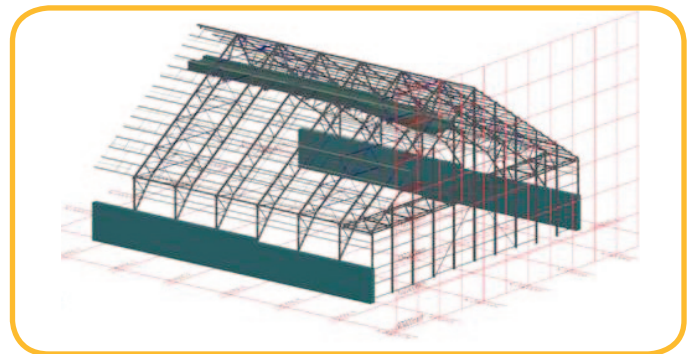
Part of sugar shed roof structure

### SITUATION

The client needed to get accurate survey drawings of their roof in order to facilitate the re-design and repair. They suspected damage and deformations in the structural steel and other parts of the shed roof. Swift action was needed.

### ACTION

In May 2012 AAM undertook a fast 3D “as-built” survey that needed to be comprehensive. There was no room for error. We discovered the shed roof was losing integrity and needed to be replaced/repared. Our “existing condition survey” was essential to the next steps in the repair and replacement process.



Isometric view of the modeled sugar shed (with grid overlay)

### RESULT

AAM’s value proposition is centered on fast, accurate and reliable deployment and turn-around of all our projects. Amongst many attributes, this is what we are known for. For this specific project we deployed two experienced surveyors. Induction took place on day 1 in the morning. Scanning was completed by 4:00pm that same day.

Our mapping team successfully delivered the entire project within 5 days after that. Using this “existing condition” survey, designers were able to create new steel components to fit in with the remaining steelwork on the shed roof.