

Project Location: Blairsburg, Iowa

Project Overview: Grain bin corrosion.

- Evaluate the corrosion located inside a 90' diameter, 80' high at the eave steel grain storage bin.
- Determine the cause or cause of the corrosion.
- Determine when the corrosion should have been evident.

Project Services:

- Interviewed key people regarding standard operation and maintenance of bin, and the construction of the bin. Noted that the contractor was new at bin installation and used a high impact wrench when installing bolts.
- Performed site visit and thoroughly documented the interior and exterior of the bin.
- Observed bin bolts and noted rust was more prevalent in lower two-thirds of bin. Also noted on the exterior that seal washers were missing or severely damaged.
- Concluded that missing and damaged seal washers were allowing water to enter, which led to rust development on the interior. Water seepage started the first year.

Photos:



Bin with rusted interior.



Rust near the base of interior.



Rust at bolt locations.



Severe rusting near some stiffeners.



Damaged seal washers at vertical seams



Damaged seal washers at horizontal seams.