



THREE-DIMENSIONAL VISUAL DOCUMENTATION OF CONTINENTAL GRAIN COMPANY COMPLEX

HHM staff, in conjunction with Texas Tech University, prepared three-dimensional visual documentation of the historic Continental Grain Company complex in Brownwood, Texas, using a Cyrax 2500 laser-scanning device. The laser-scanning device was set up at various locations around the property to scan the grain elevator and auxiliary buildings. The global scans documented the general physical characteristics and inter-relationships of buildings and structures on the property. Detailed scans captured the infrastructure and mechanical systems of the elevator. The scans were registered together to produce a comprehensive, three-dimensional, measurable model of the grain complex. Historic American Engineering Record (HAER) drawings were generated using the laser-scanning data. The point cloud model was rotated to the appropriate views and drawn in AutoCAD to produce an accurate site plan, elevations, sections, details, axonometrics, and perspectives. Each of the different processes involved in the grain complex are illustrated in the drawings. HHM staff also conducted research at local and regional repositories. A history and description of the property were completed according to HAER standards.

The project was awarded the first annual HAER Founder's Award by the National Park Service in November 2004, in recognition of the outstanding set of HAER drawings produced by HHM, in conjunction with Texas Tech University.

KEY SERVICES

- ▶ HABS & NRHP Eligibility Studies
- ▶ MOA and PA Compliance
- ▶ GIS/AutoCAD
- ▶ HAER Documentation
- ▶ 3D Laser Scanning
- ▶ Architectural Photography
- ▶ Historical and Archival Research
- ▶ Historic Context
- ▶ NPS Recognition-Founder's Award

PROJECT

- ▶ Client: Texas Department of Transportation, Environmental Affairs Division
- ▶ Location: Brownwood, Texas
- ▶ Date: 2006
- ▶ Contract Type: T&M NTE
- ▶ Contract/Job Numbers: 572 XX SH001 WA 12