

High Resolution Elevation QA Review Report

Project: Iowa CSC 03-10 Lidar 2010 Contract ID:

Liaison: Bob Lermen Partner(s): Contractor: Sanborn Map Co. Inc

Data Delivery Date: 02/10/2009, 08/0: Date Data Reviewed: 11/14/2009 - 11

Reviewer: Rusty Grout / Eric Jaramill Total Square Miles Reviewed: 2627.3 sq. mi

Elevation Type: LIDAR Format: xyz Grid Spacing: 1 meter Tile size: 1000 x 1000

Projection: UTM Zone: 15 Datum: NAD83 Units: Meters

Licensing: Public Domain Metadata: Project Level Acquisition Date: 04/07/2007 thru

Materials Received:

Bare earth ASCII .xyz files
Las point cloud .xyz files
Metadata
Shape files

Vertical Accuracy Test Performed: Yes Test Point Source: USGS RMSE: 0.237 meters

Vertical Accuracy Test Notes:

A vertical check was performed on Iowa CSC 03-10 bare earth data. See the Iowa Statewide Lidar Project Vertical Accuracy Report sent with the final .img data.

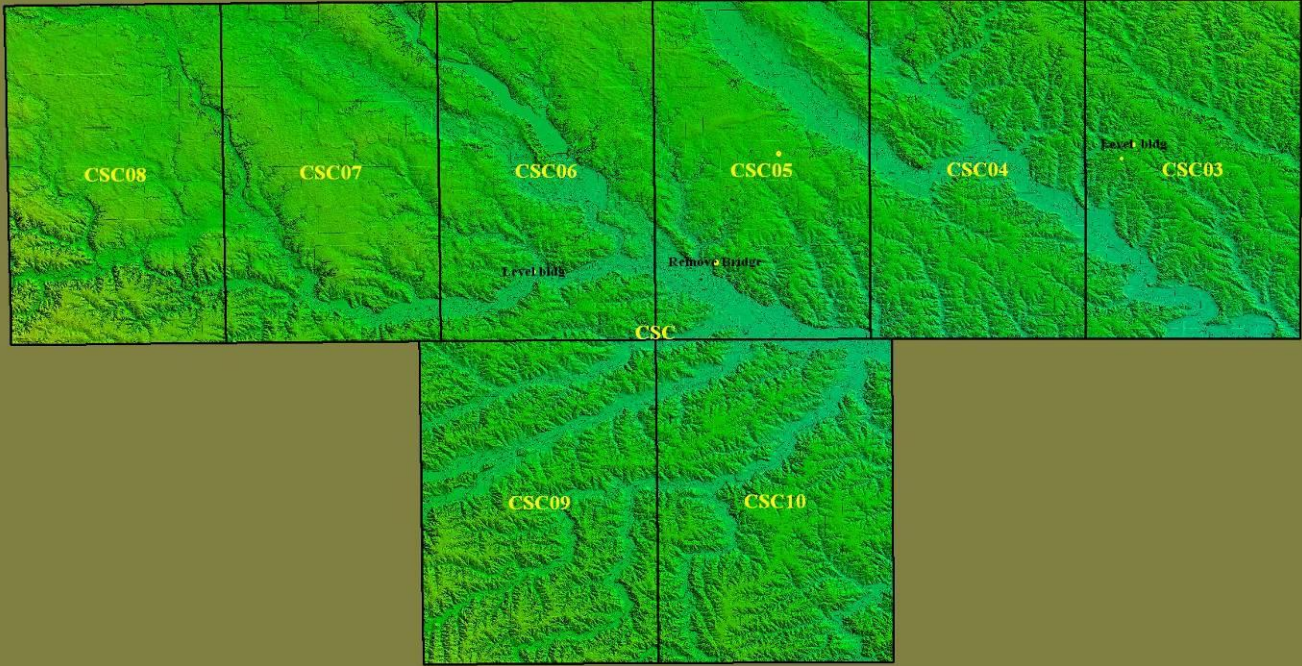
QA Review Summary:

All of Iowa CSC 03-10 one meter Lidar data was reviewed. This data was brought into Global Mapper as .xyz point files. Las point files were created from the .xyz files then gridded to 1 meter data for QA/QC. Errors found throughout this project and fixed in Global Mapper are bridges not taken out, buildings not taken out, missing data, (errors found throughout this project and not fixed are road offsets and flooding, see example below) . This 1 meter data has been regridded to 1 meter .img files. This data is accepted and will be sent to archive.

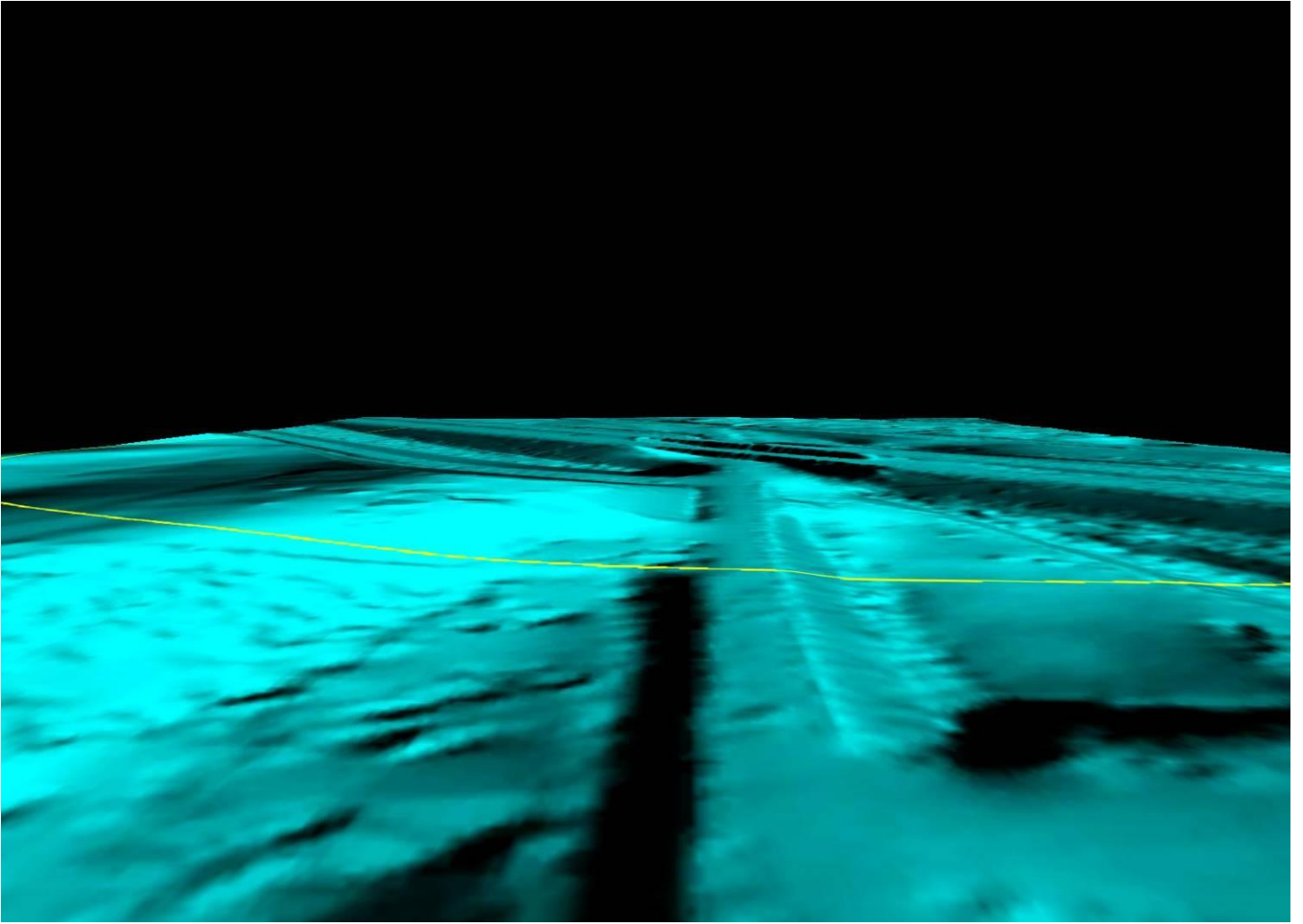
See error JPEG examples and documents attached below.

Conclusions: 1. 89% of artifacts removed
2. 90% of vegetation removed
3. 95% of buildings removed

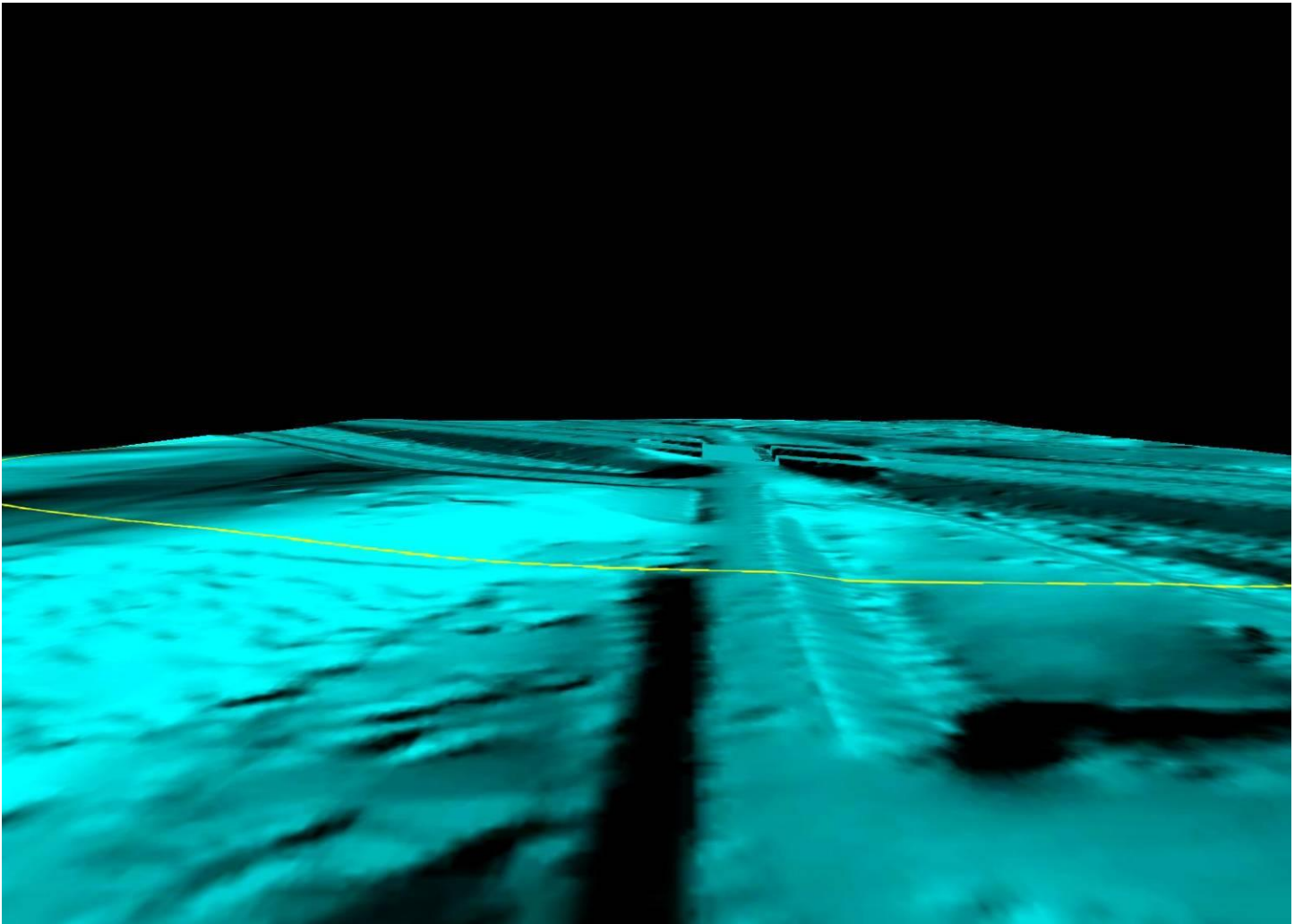
Iowa CSC 03-10



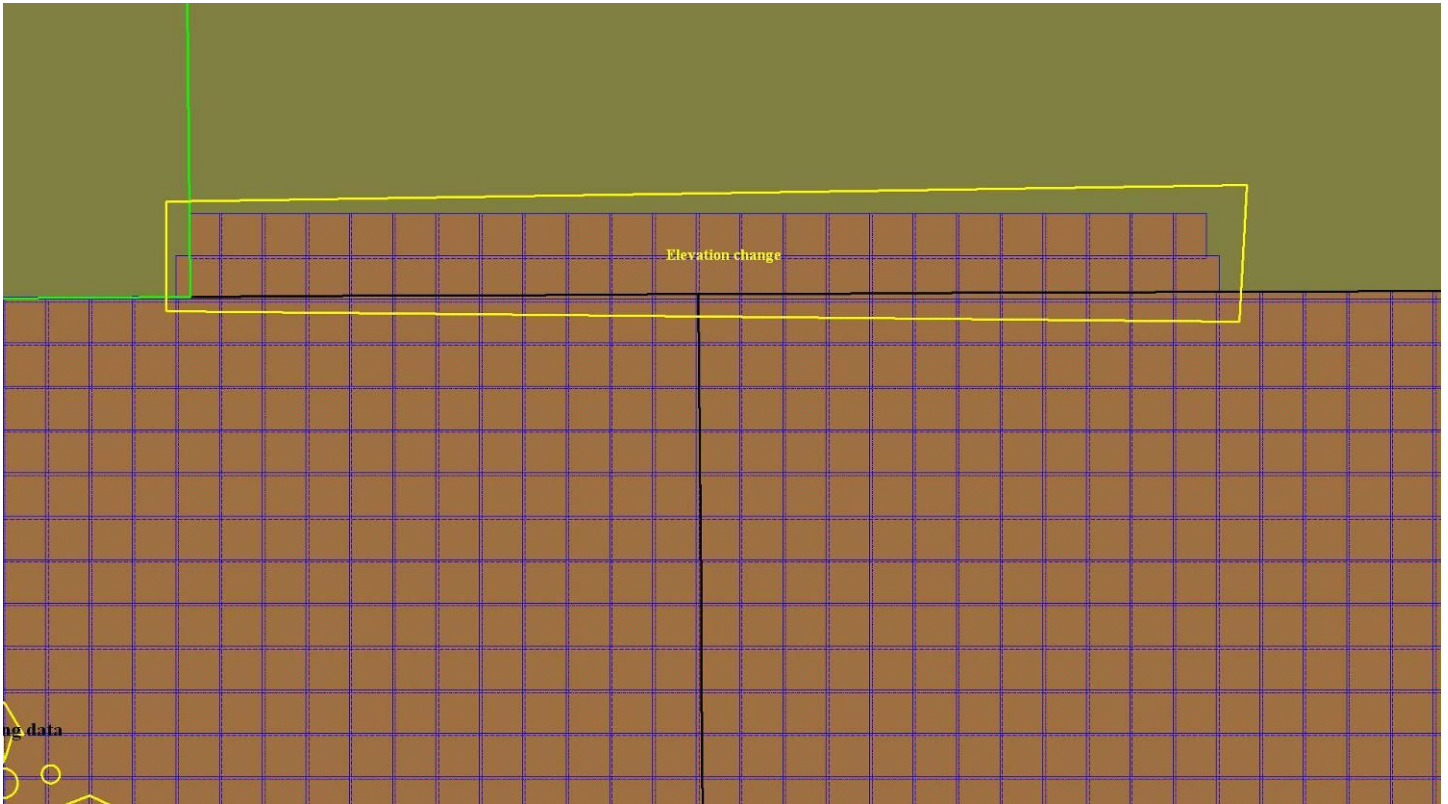
Iowa CSC bridge not removed



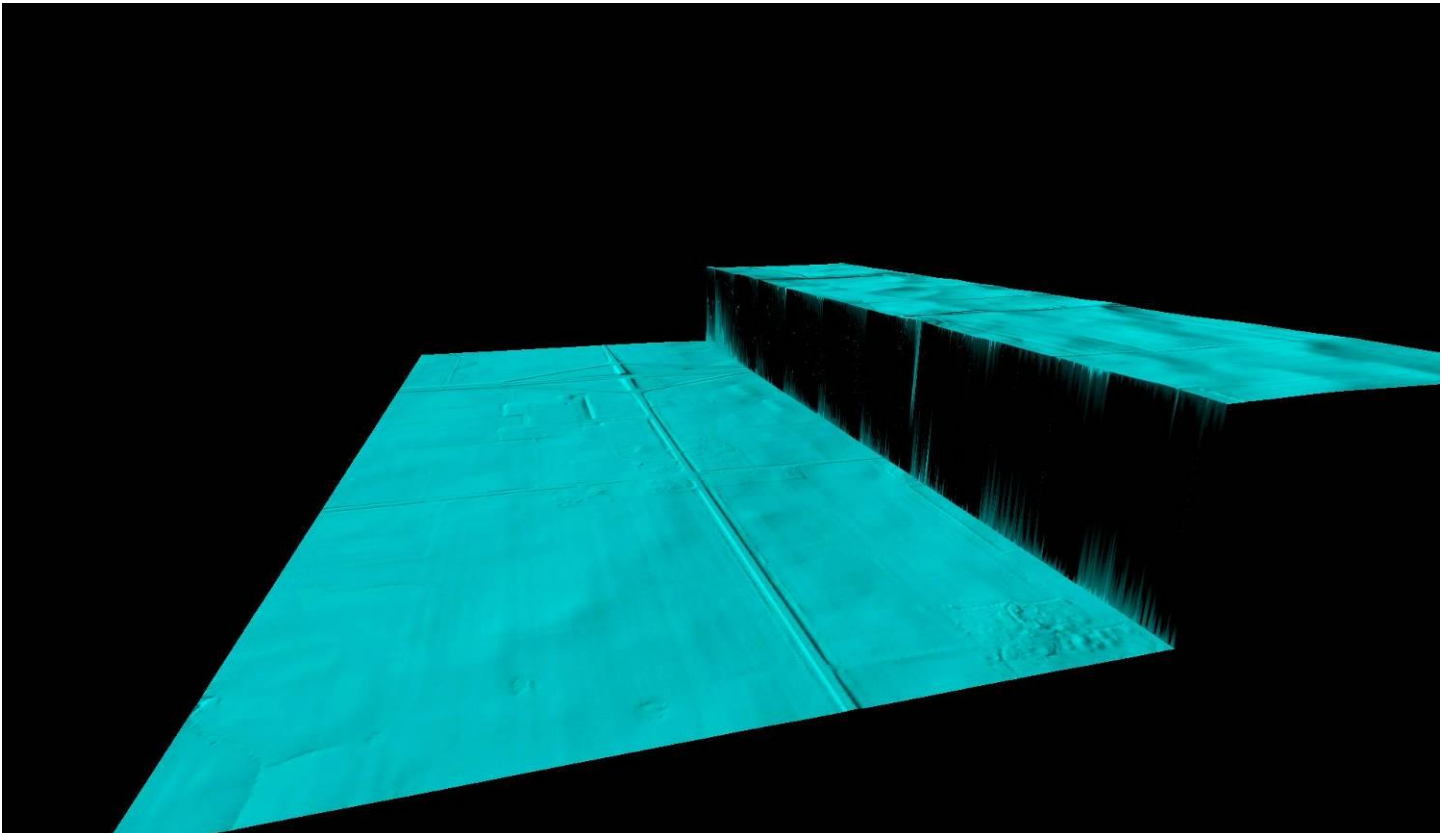
Iowa CSC bridge not removed (Fixed)



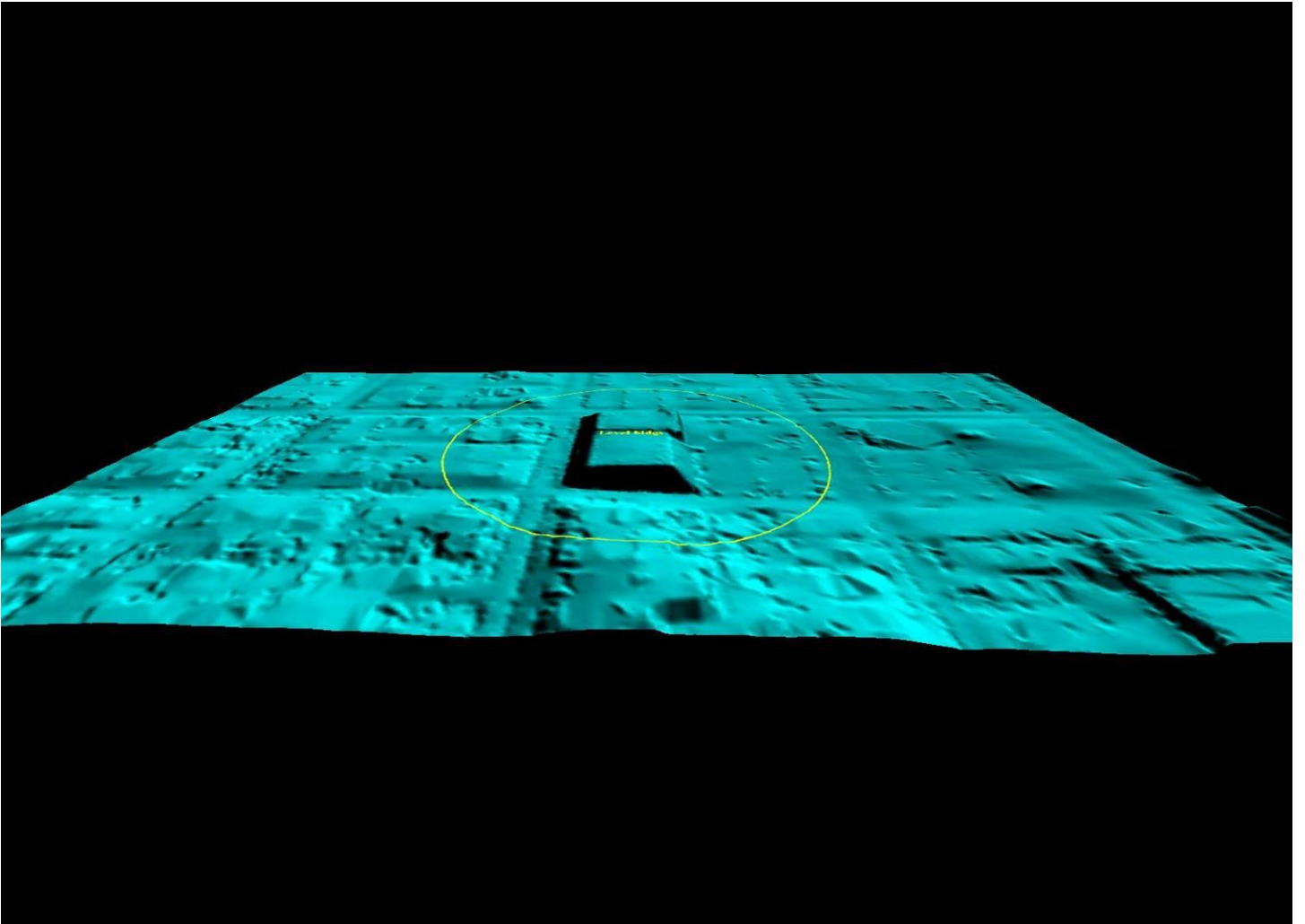
Iowa CSC elevation change at tile edge



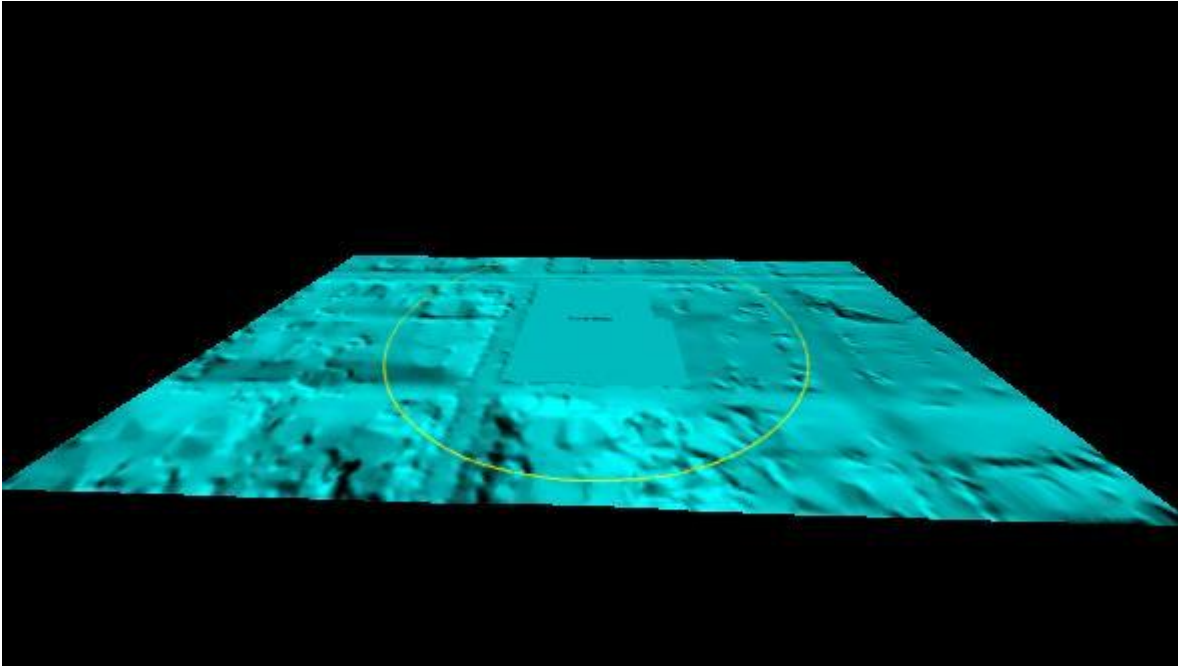
Iowa CSC elevation change at tile edge (fixed with overlap from top tile)



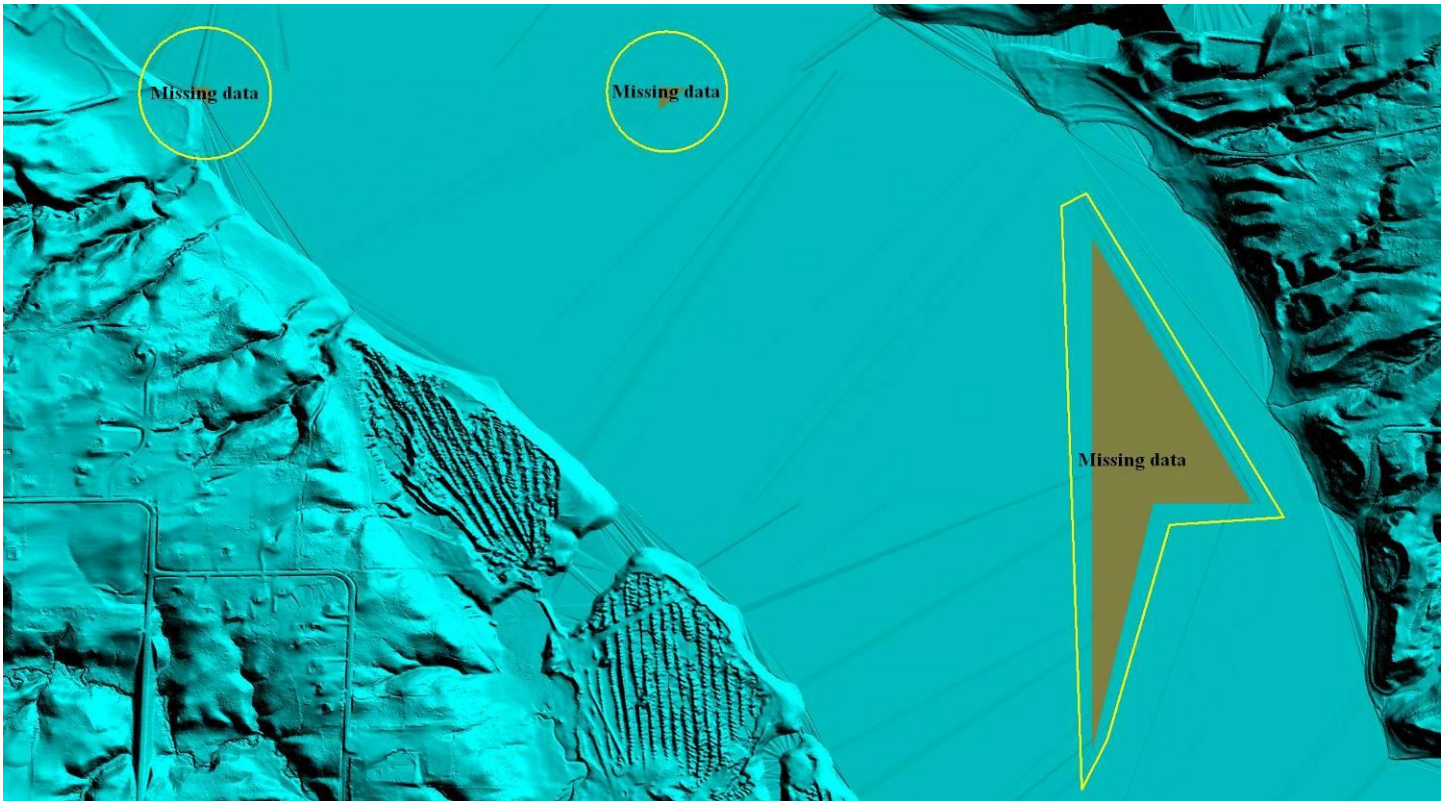
Iowa CSC level bldg



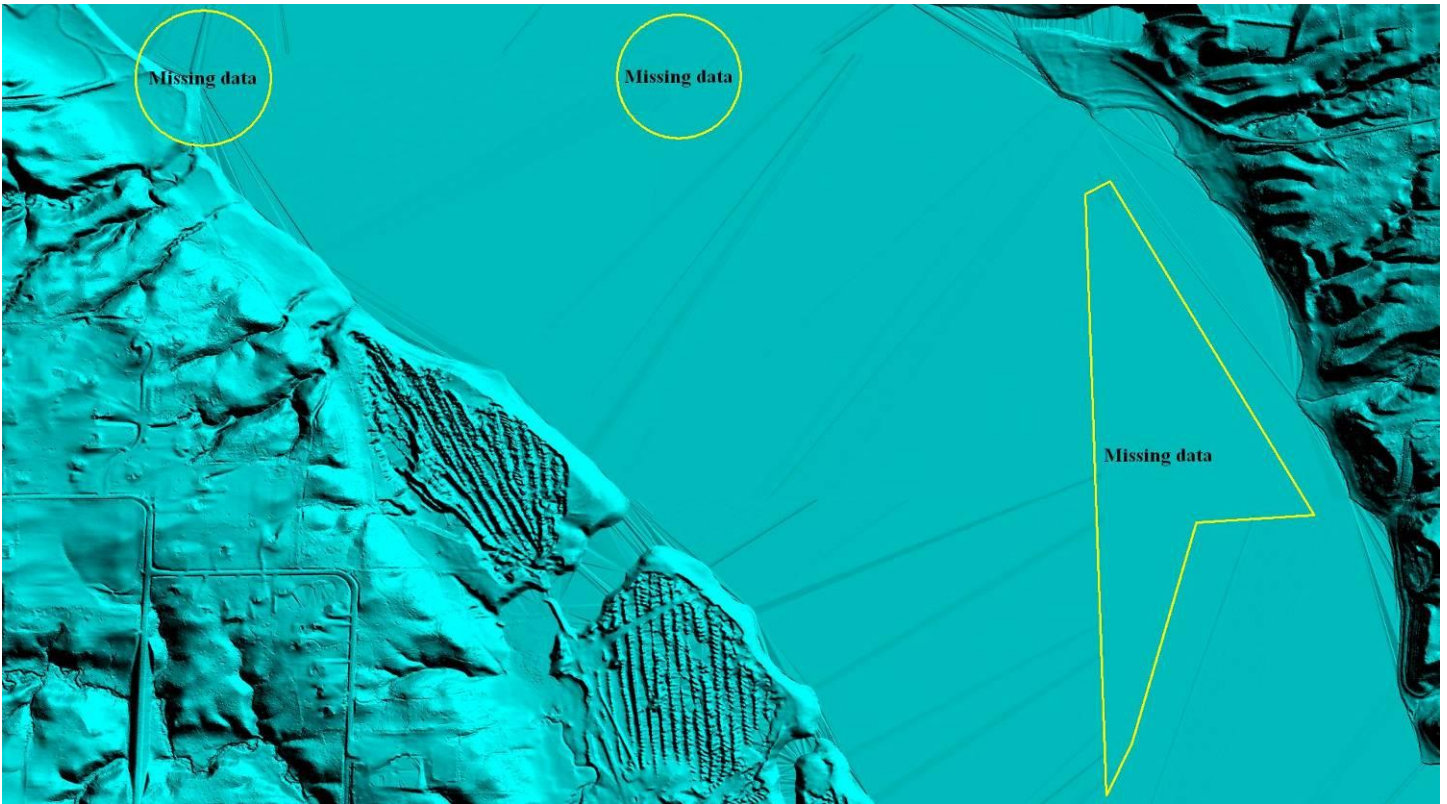
Iowa CSC level bldg (Fixed)



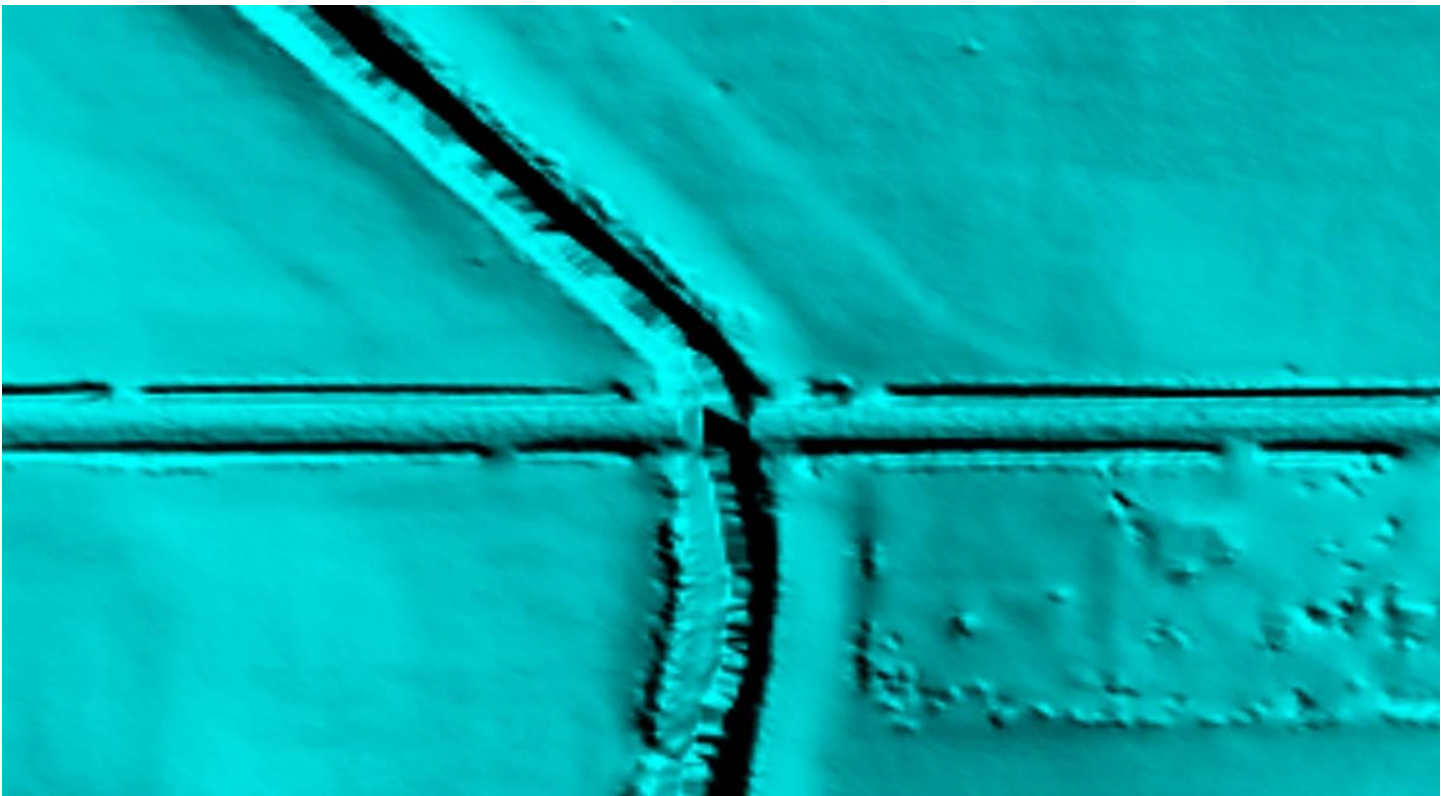
Iowa CSC missing data



Iowa CSC missing data (Fixed)



Iowa CSC road offset (Not fixed)



Iowa CSC flooding (Not fixed)

