

## Open Spatial's ACDC helps City of Greater Bendigo revolutionize capture of As-Constructed asset data



### CUSTOMER

**The City of Greater Bendigo** in Victoria is 150 kilometers (93 miles) northwest of Melbourne. Greater Bendigo covers almost 3,000 square kilometers and has a growing population of more than 110,000. As Victoria's third largest economy base, the city is a service and infrastructure center for the north central state. Bendigo is surrounded by regional, state and national parkland and is strategically planning for its long-term future with the input of residents.

### CHALLENGES

- Capturing accurate digital asset data at the source rather than manually extracting data from paper plans
- Automating the submission, validation and processing of As-Constructed data
- Ensuring data quality and consistency
- Reducing the time and resources required to create asset data

### INNOVATIONS/RESULTS

- ACDC portal runs on a cutting-edge platform allowing 24/7 online data validation and cloud-based convenience
- Automated checking of As-Constructed data against standards such as A-SPEC
- The ACDC portal automatically validates all As-Constructed submissions and provides instant feedback to engineers and consultants
- Only fully validated 'As-Constructed' data is allowed to pass through the portal to the city's asset department
- Drawing tools, templates and documents are readily available from the ACDC Portal
- Asset data is automatically transformed for loading into GIS and AMS systems

### SOLUTION



The City of Greater Bendigo is dramatically updating the way it receives information from construction documents by using Open Spatial's As-Constructed Design Certification (ACDC) software and As-Constructed Portal. ACDC revolutionized the city's design submittal process, transforming a time-consuming, paper-based process into an efficient automated system for managing and checking As-Constructed asset data such as roads, sidewalks, curbs and gutters.

**The self-service portal offers automated compliance checking and helped remove a bottleneck for us as several developers can be working on design submittals at the same time.**

"ACDC has improved our data quality and turn-around time, and there is no double handling of assets internally," said Paul Nicholson, GIS/Assets Coordinator for the City of Greater Bendigo. Using ACDC and the online portal enables the city to receive pre-checked asset information supplied by developers who have uploaded and validated drawings and data for compliance. The As-Constructed Portal service accommodates multiple users at once and is available 24/7.

## When you have 100-lot subdivisions and consider all the pipes, drainage pits and roads involved, the process of pre-validated submissions has huge benefits.

ACDC delivers efficient validation of design information stored in As-Constructed drawings and converts it to GIS and Asset Management Systems without recapturing the data. ACDC transforms data management by automatically checking data against organizational and industry standards such as A-SPEC. The process involves minimum disruption of current workflow while errors and inconsistencies are automatically flagged before plan submittal.

Zane Tronson, GIS Assets Officer, said ACDC is saving the city time as staff does not have to chase down developers to ensure they provide complete data. “The self-service portal offers automated

compliance checking and helped remove a bottleneck for us as several developers can be working on design submittals at the same time.”

The new process is beneficial to the rapidly growing City of Greater Bendigo as large subdivisions are underway and the city is working toward its vision to be the world’s most livable community. “When you have 100-lot subdivisions and consider all the pipes, drainage pits and roads involved, the process of pre-validated submissions has huge benefits,” said Nicholson. “All drop-down lists are built into ACDC tools, and it prevents errors such as accidentally typing in the wrong code.”

Tronson added that the ACDC portal offers a single point of contact for developers and allows the city the flexibility to customize various parts of the process for submittals. “We are able to prepopulate some fields according to the A-SPEC standard and it speeds things up for developers. It helps us internally and it helps developers.”

## Open Spatial Geospatial Suite

Open Spatial provides geospatial engineering solutions for managing spatial data from survey through design, construction and data management. Our technologies are based on risk averse ubiquitous platforms that bridge the gap between CAD, GIS, BIM and asset management applications. Utilizing open standards and engineering best practices, we deliver fit-for-purpose solutions with a focus on productivity improvements, definable return on investment and long-term savings.



Edit in AutoCAD Map, Civil 3D, store data in single database; Multi-users, off-the-shelf applications and data models



Web-based, geospatial portal and business intelligences integration platform



Automate the validation and loading of data from electronic submittals of as-builts directly into GIS and CMMS

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## Validate and Automate Electronic Design Submittals

With ACDC you can easily validate and transform design information stored in “As-Constructed” drawings to GIS and Enterprise Asset Management information without capturing the data.

ACDC manages submitted data, validates its quality against organizational and industry standards and transforms it into geospatial and asset management information which can be automatically loaded into GIS and CMMS/AMS systems with minimum disruption to current workflows.