Building Floor Levels and Verticality Surveys: Data capture and presentation

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FIG Working Week 2016

CHRISTCHURCH, NEW ZEALAND 2–6 MAY 2016
New Work Demands:

• Building assessment surveys
  – Vertical condition
  – Floor levels
• Minimal prior experience
• Data accuracy, quantity, timeliness
Floor Level Surveys – Data Capture Considerations:

- Accuracy requirements
- Equipment choice
- Appropriate personnel
- Selection of floor level measurement locations
- Floor coverings
Floor Level Surveys – Data Presentation:

- Floor level positions
- Referenced to floor plan layout
- Contours
- False origin datum
- Colours
- Additional analyses
Verticality Surveys – Data Capture Considerations:

- Structure assumptions
- Site limitations
- Equipment selection
- Expectations of end-users
- Processing methods and data-useability
Verticality Surveys

- Data Presentation:
  - Difficult to present
  - Single vector
  - Elevation Views:
    - Colour-coded
    - Combined with plan view

Section E
Scales (A1): Hz.: 1:1; Vt.: 1:100
Scales (A3): Hz.: 1:2; Vt.: 1:200
Datum: 16.00

Section F
Scales (A1): Hz.: 1:1; Vt.: 1:100
Scales (A3): Hz.: 1:2; Vt.: 1:200
Datum: 16.00

Section J
Scales (A1): Hz.: 1:1; Vt.: 1:100
Scales (A3): Hz.: 1:2; Vt.: 1:200
Datum: 16.00

Section K
Scales (A1): Hz.: 1:1; Vt.: 1:100
Scales (A3): Hz.: 1:2; Vt.: 1:200
Datum: 16.00

Section L
Scales (A1): Hz.: 1:1; Vt.: 1:100
Scales (A3): Hz.: 1:2; Vt.: 1:200
Datum: 16.00

Section M
Scales (A1): Hz.: 1:1; Vt.: 1:100
Scales (A3): Hz.: 1:2; Vt.: 1:200
Datum: 16.00

Refer to sheet A5 for typical plan.
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Recovery from disaster

Platinum Partners:

Diamond Partner

Trimble
esri