AEC SOLUTIONS

DIGITAL SURFACE/TERRAIN MODELS FOR MACHINE CONTROL

Juniper Unmanned, Inc. provides advanced solutions for managing and preparing site data required for machine control projects and earthwork quantity takeoffs of any size. Our goal is for our client’s projects to run efficiently, saving time, money, and resources with fewer employees in the field. Combining the most advanced remote sensing technologies with 3D digital surface/terrain models (DSM/DTM) gives our clients the ability to analyze potential design issues before construction begins.

Machine Control data prep for jobsite insights on any project.

- Curb & gutter, sidewalk alignment files
- Break lines for ROW, flowline, center-line, curbing and swales
- Drainage and slope contouring
- Over-lot and excavation models
- Basement excavation models
- Access road “as-builts”
- Landfills, highways, utilities, subdivisions, wetland creation and rehabilitation, and commercial site developments
- Roadway corridor, finish and sub-grade models

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BENEFITS OF INTEGRATION OF UAS IN MACHINE CONTROL

- Rapid and as-needed deployment
- High-resolution 3D models
- Valuable construction data
- Increased machine productivity
- Reduced re-work
- Lower engineering/survey costs
- Streamlined workflows and staging
- Material cost savings
- Compatible with all major machine control system manufacturers

Contact Juniper today to discover how we can support your projects, efficiently and cost effectively!