

## Tackle challenging projects with fast and accurate remote data capture.

### Problem

Whether it is a straightforward roadway mapping project or 1,000 miles of roadway or hazardous terrain, collecting field data can be time-consuming, labor intensive, unsafe, error prone and costly. What if you could get fast and accurate data, using the tools most suited for your project?

### Solution

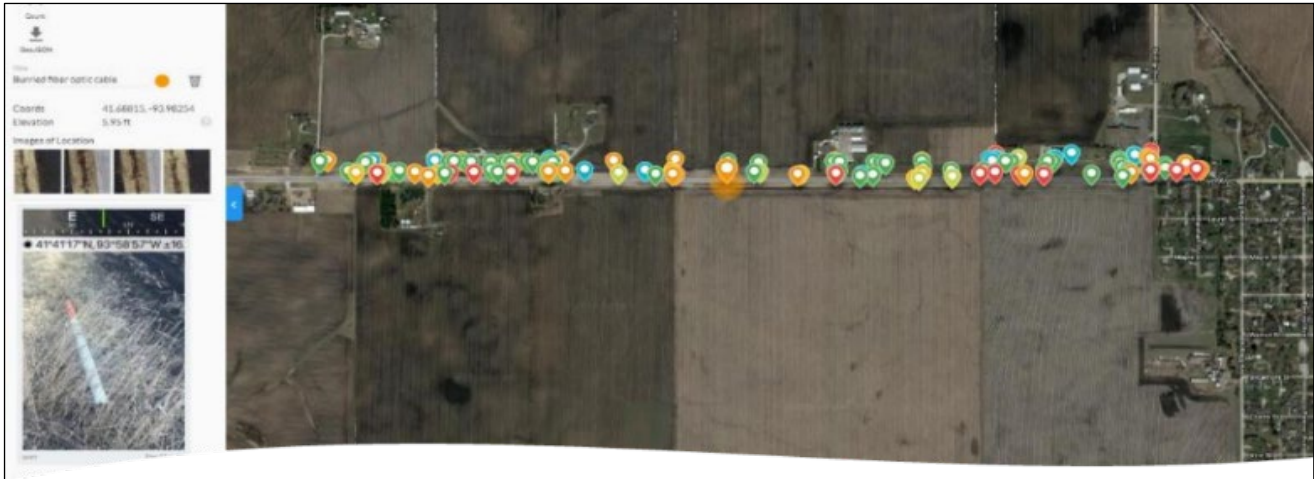
Congruex data capture services works with you to determine the best options to quickly and accurately capture the data from the field, then streamlines the flow of data direct from the field into existing

systems. You spend less time gathering data and more time driving the business. Congruex utilizes LiDAR for mobile mapping and drone technology to deliver an industry-leading solution for designing tomorrow's networks.

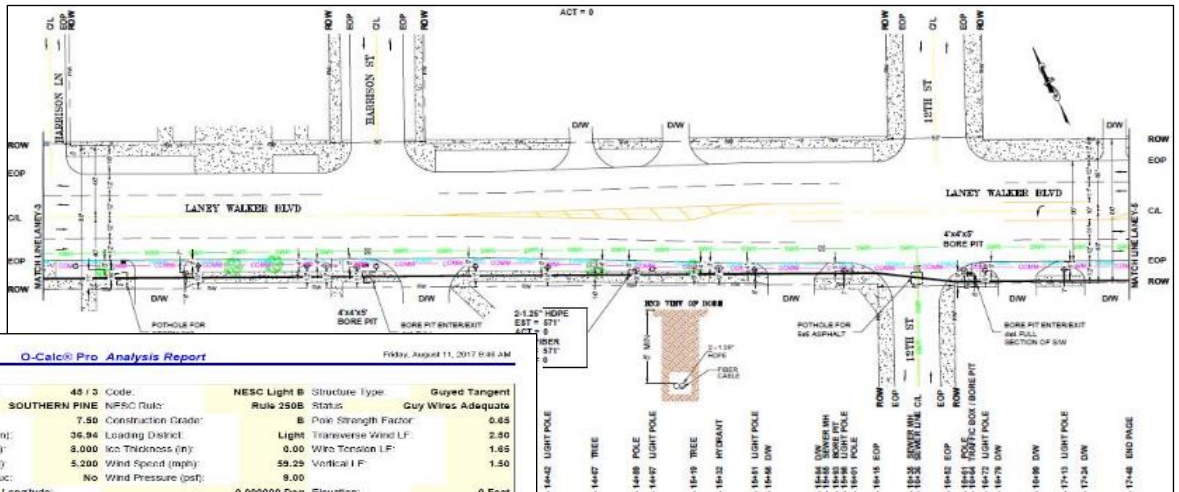
### Applications:

- Asset management
- Mass deployments
- Disaster recovery
- Site mapping
- Aerial/ underground construction
- Pole loading analysis
- Roadway mapping
- Hazard detection

### From collection to design



### Scaled drawings- permits/layouts



**Pole ID: ABC-6.rpt** **O-Calc® Pro Analysis Report** Friday, August 11, 2017 6:46 AM

Pole Num:	ABC-6	Pole Length / Class:	45 / 3	Code:	NESC Light B	Structure Type:	Guyed Tangent
Aux Data 1:	Unset	Species:	SOUTHERN PINE	NESC Rule:	Rule 250B	Status:	Guy Wires Adequate
Aux Data 2:	Unset	Setting Depth (ft):	7.50	Construction Grade:	B	Pole Strength Factor:	0.65
Aux Data 3:	Unset	GL Circumference (in):	36.96	Loading District:	Light	Transverse Wind LF:	2.50
Aux Data 4:	Unset	GL Fiber Stress (psi):	3.000	Ice Thickness (in):	0.00	Wire Tension L/F:	1.65
Aux Data 5:	Unset	Allowable Stress (psi):	5.200	Wind Speed (mph):	59.29	Vertical L/F:	1.50
Aux Data 6:	Unset	Fiber Stress H. Reduc.:	No	Wind Pressure (psi):	9.00	Elevation:	0 Feet
Latitude:	0.000000 Deg	Longitude:	0.000000 Deg				

Pole Capacity Utilization (%)	Height (ft)	Wind Angle (deg)
Maximum	44.7	0.0
Groundline	44.7	90.0
Vertical	1.4	0.0

Pole Moments (ft-lb)	Load Angle (deg)	Wind Angle (deg)
Max Cap. III	30.448	88.2
Groundline	30.448	88.2
GL Allowable	69.174	

Guy System Component Summary				Load From Worst Wind Angle on Pole		Individual Maximum Load	
Description	Lead Length (ft)	Lead Angle (deg)	Height (ft)	Nominal Capacity (%)	Wind Angle (deg)	Max Load Capacity (%)	Wind Angle (deg)
Expanding - 12" 8 - Way - Self Class 5 10M (Span/Head)	157.0	180.0	30.0	1.8	90.0	3.3	0.0
<b>System Capacity Summary:</b>				<b>Adequate</b>		<b>Adequate</b>	

User: COLD Jesus COLD-JP OCP 5.02    \*Installs Load Factors    Page 1 of 1    †Worst Wind Per Guy Wire    ‡Wind At 90°

### Pole loading analysis

For more information visit us at [congruex.com](http://congruex.com) or call (720) 510-8326.