BOARD OF COMMISSIONERS

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COUNTY MANAGER
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HAYWOOD COUNTY BOARD OF COMMISSIONERS
AGENDA REQUEST

Must be presented to the County Manager's Office
no later than noon on Friday, 10 days before the meeting

DATE OF REQUEST: September 17, 2019

FROM: Stephanie Parkins

MEETING REQUEST DATE: October 7, 2019

REQUEST: Presentation from Eagleview to fly Oblique imagery county wide.

BACKGROUND AND PLAN: The last oblique imagery was flown in 2007. With a new flyover staff can determine changes to structures as well as changes to land characteristics and determine points of access in an emergency situation. This additional tool will aid the Revaluation Team, Land Records, GIS, Addressing, Law Enforcement, Economic Development, Emergency Services and other departments.

FINANCIAL: Total cost of the project as quoted $114,977. Cost can be divided with annual payments. First year payment is $38,325.59 of which $19,000 is budgeted with remaining $19,000 to come out of contingency.

SUPPORTING ATTACHMENT: YES ☒ NO ☐

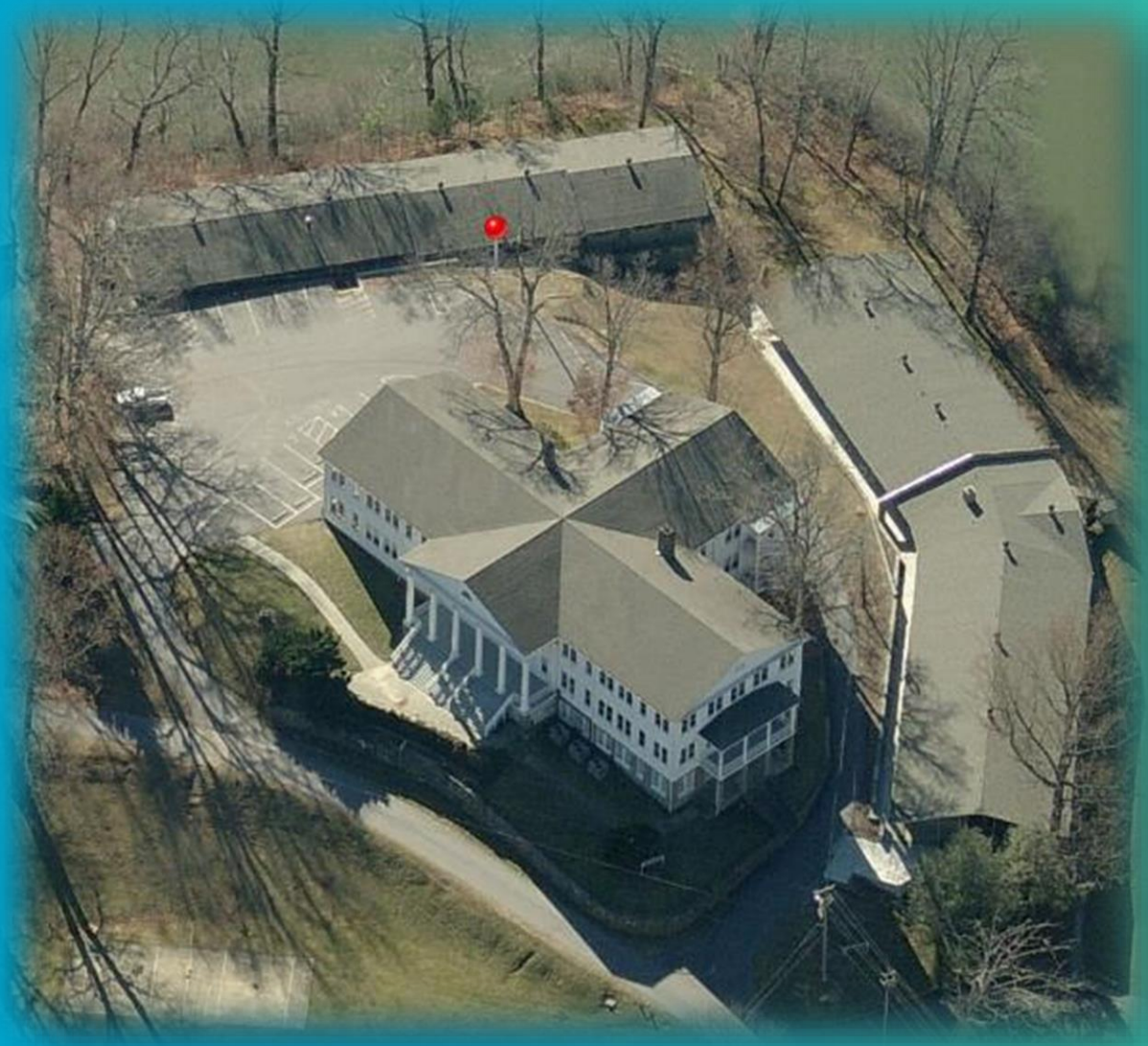
POWERPOINT PRESENTATION: YES ☒ NO ☐

PERSON MAKING PRESENTATION: Joe Wilson
TITLE: Direct Sales Manager, Eagleview
PHONE NUMBER: 704-649-2119
EMAIL: joe.wilson@eagleview.com

Haywood County, NC
Pictometry Imagery

October 7, 2019

Joe Wilson, District Manager - North Carolina / South Carolina



About Eagleview

98%

coverage in the U.S.
in terms of population

135

planes at
our disposal

130

domestic & international
patents granted

673

Eagleview
employees

1,800+

jurisdictions flown
in North America

2,362

terabytes of
imagery storage

3,750

terabytes of
data storage

25,000

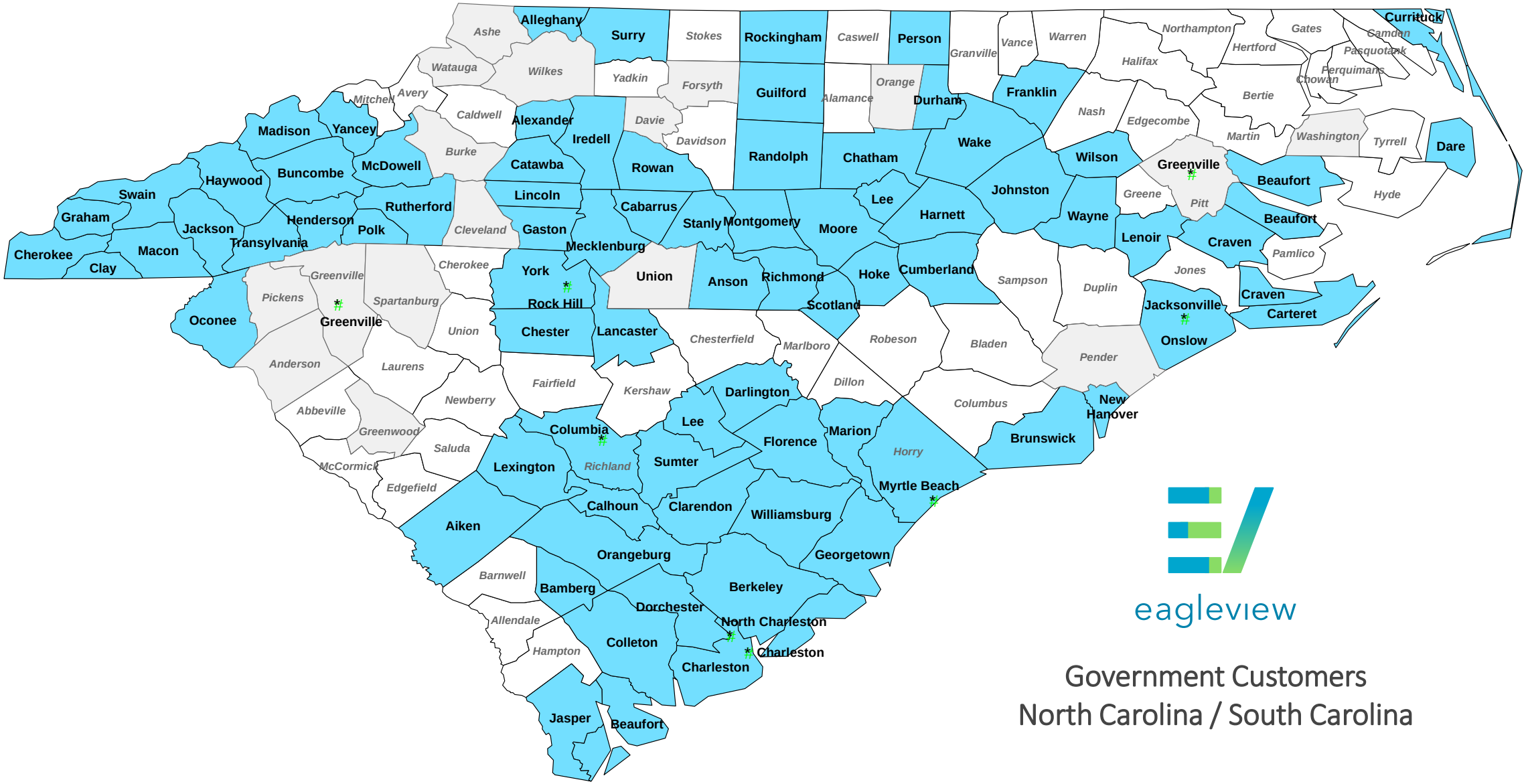
reports delivered
per 24-hour period

34,500

hours spent
flying per year

350 Million

images in our
image library



eagleview

Government Customers
North Carolina / South Carolina

What is Pictometry Imagery? Aerial imagery captured by a plane; Provides views from all 5 directions (Top, North, South, East, West)

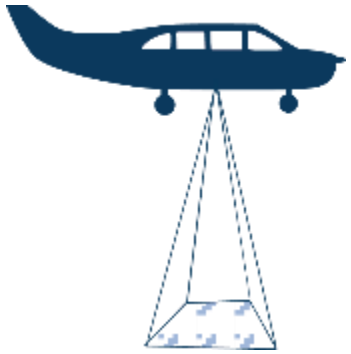
How's it done?

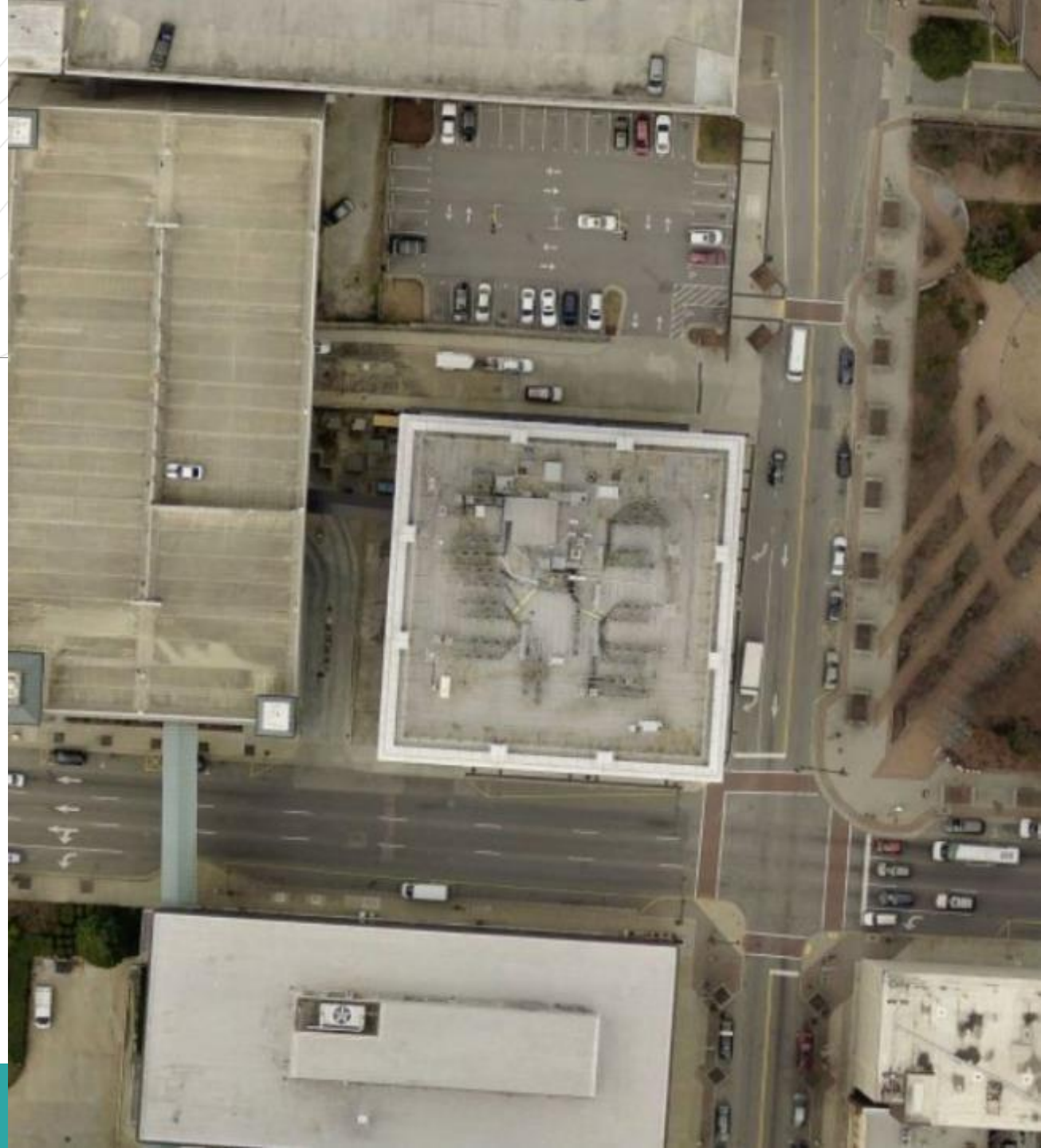
- Patented 5 camera system; invented, manufactured and maintained by our EagleView Rochester, NY office.

Traditional Ortho Imagery vs. Pictometry

What type of structure is this? How tall?

Traditional Ortho Image





More than Imagery…

OBLIQUE IMAGERY

eagleview

West facing Oblique
© 2009 Pictometry

How many county departments are authorized users?

Key government applications

Agencies and departments within a county can access high-resolution imagery and integrate it into existing workflows.

PUBLIC SAFETY

PROPERTY APPRAISAL & ASSESSMENT

PUBLIC WORKS & UTILITIES

GIS DEPARTMENTS

PLANNING & ZONING

FIRE DEPARTMENTS

EMERGENCY MANAGEMENT

SURVEYOR

Key Government Applications

PROPERTY APPRAISAL & ASSESSMENT

- Remote inspection saves times and money
- View property details to assess accurate value and determine tax rates
- Direct integration with CAMA for improved workflow
- Rely on imagery when processing appeals

Key Government Applications

- Imagery integrates into 911 CAD software to verify cell phone locations
- Situational awareness, planning, location intelligence & training exercises
- Imagery can be used in court

Key Government Applications

•Various agencies and departments within a county can access high-resolution imagery and integrate it into existing workflows.

PUBLIC WORKS & UTILITIES

- Pre-planning before onsite work (manholes, drainage, valves)
- Determine runoff patterns with oblique imagery
- Sign inventory
- Road and paint conditions
- Impervious surface calculation

GIS DEPARTMENTS

- Imagery layered on GIS data aids in planning
- Georeferenced ortho and oblique imagery provides accuracy
- Planimetric data layers
- Address verification

Key Government Applications

•Various agencies and departments within a county can access high-resolution imagery and integrate it into existing workflows.

- Code enforcement
- Imagery can determine how a parcel will be used and if permits are granted

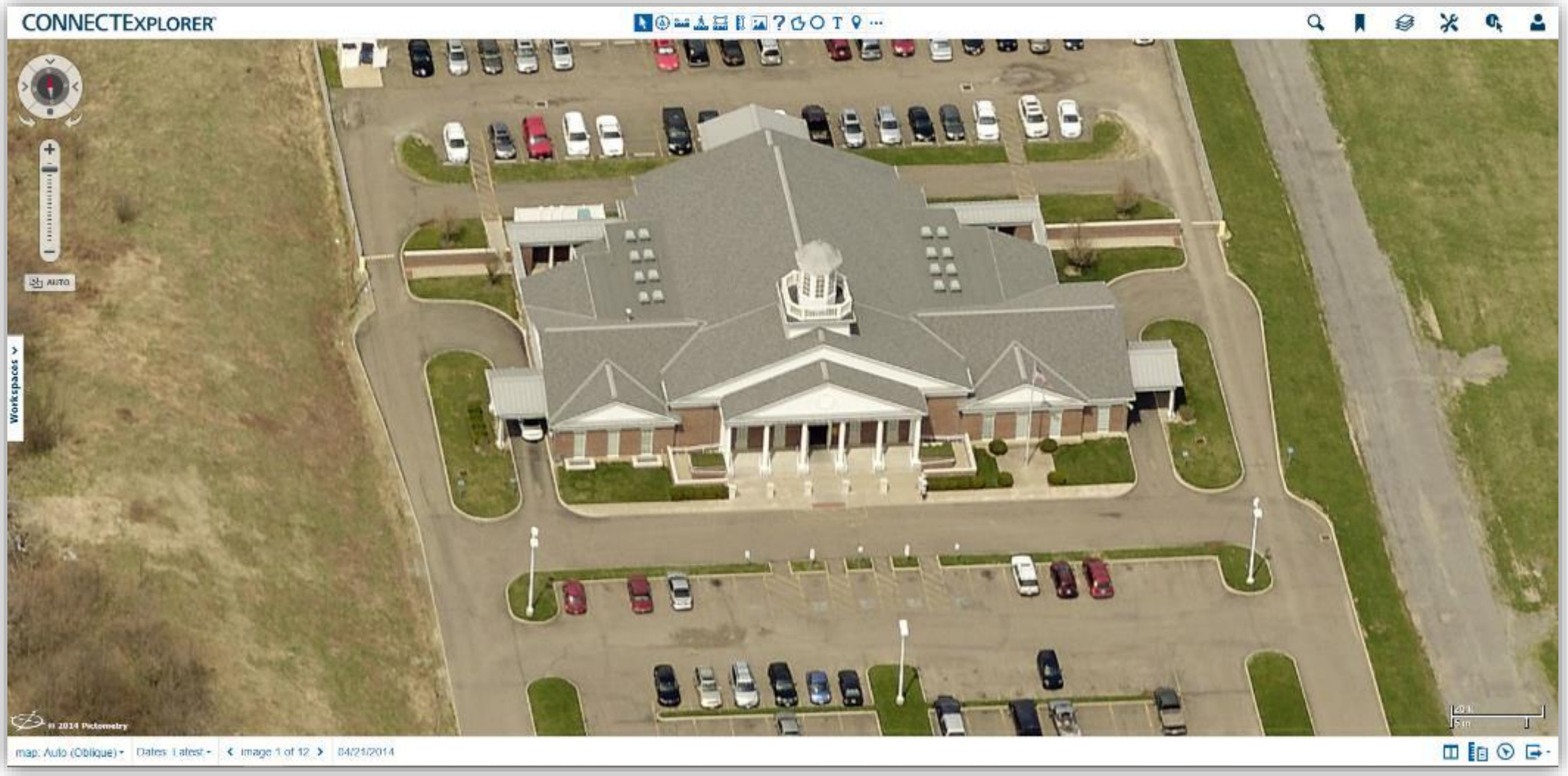
- Wildfire control using wide-area imagery
- Planning and emergency drills

- Disaster preparedness, mitigation, response, and recovery planning

- Determines property boundaries

Access

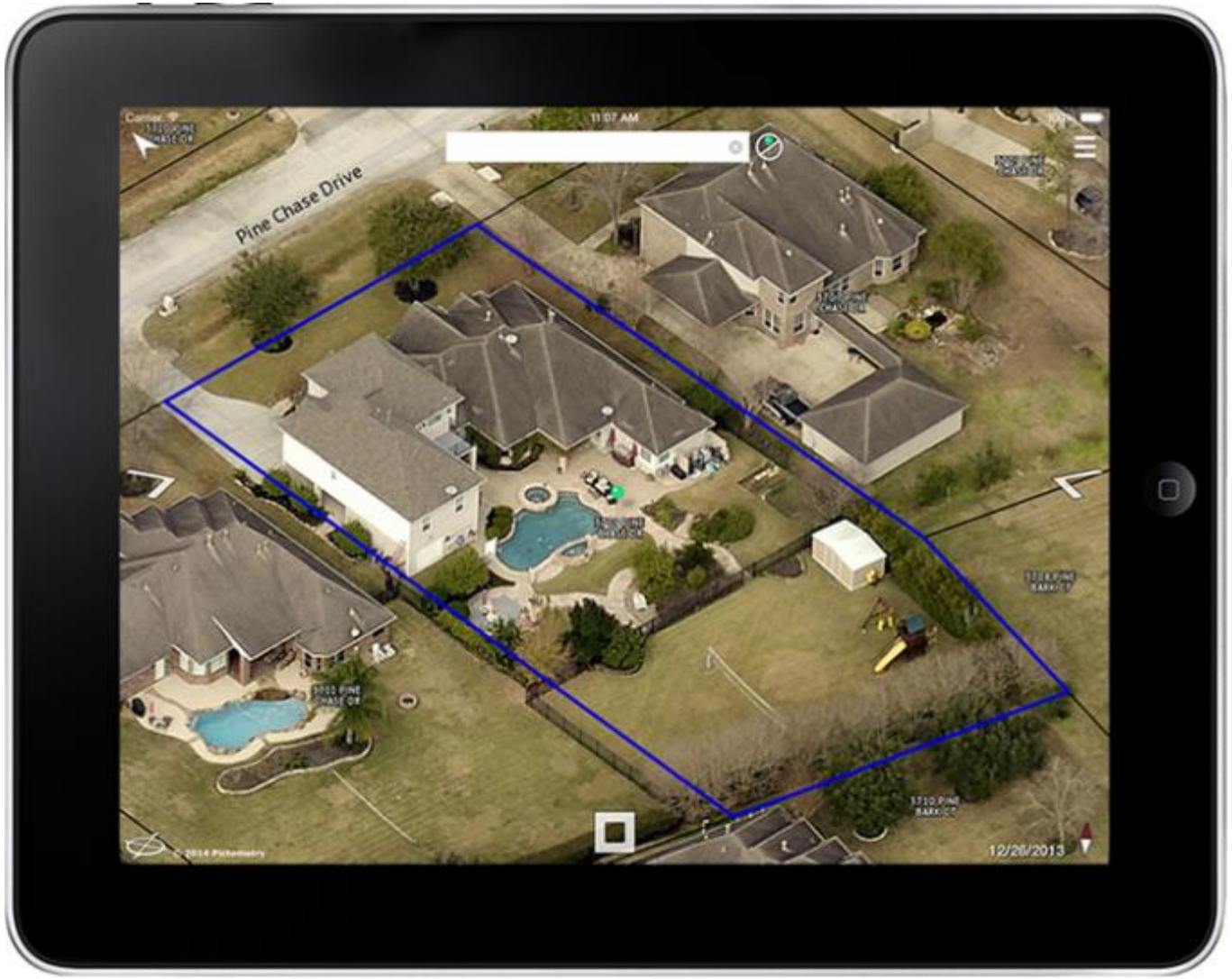
CONNECTExplorer



Overlay GIS Data

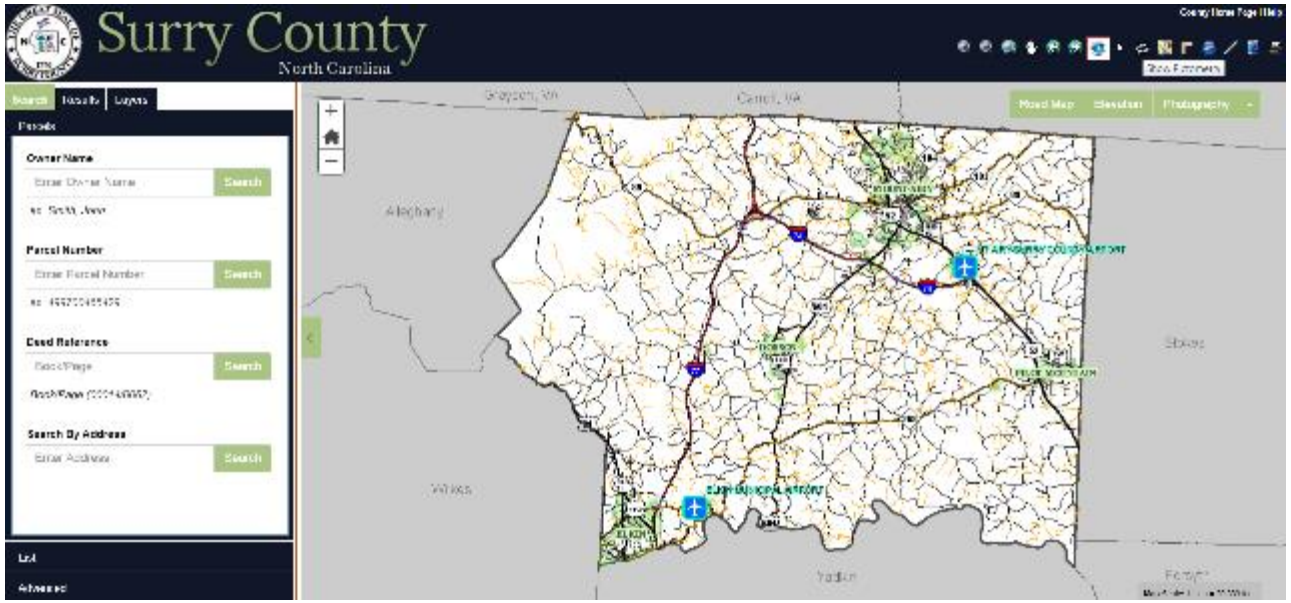
Mobile Apps

3709 Pine Chase Drive...
Pine Chase Drive
Area: 3759 Square Feet
Add Point
Measure
Done


Pine Chase Drive
12/20/2013

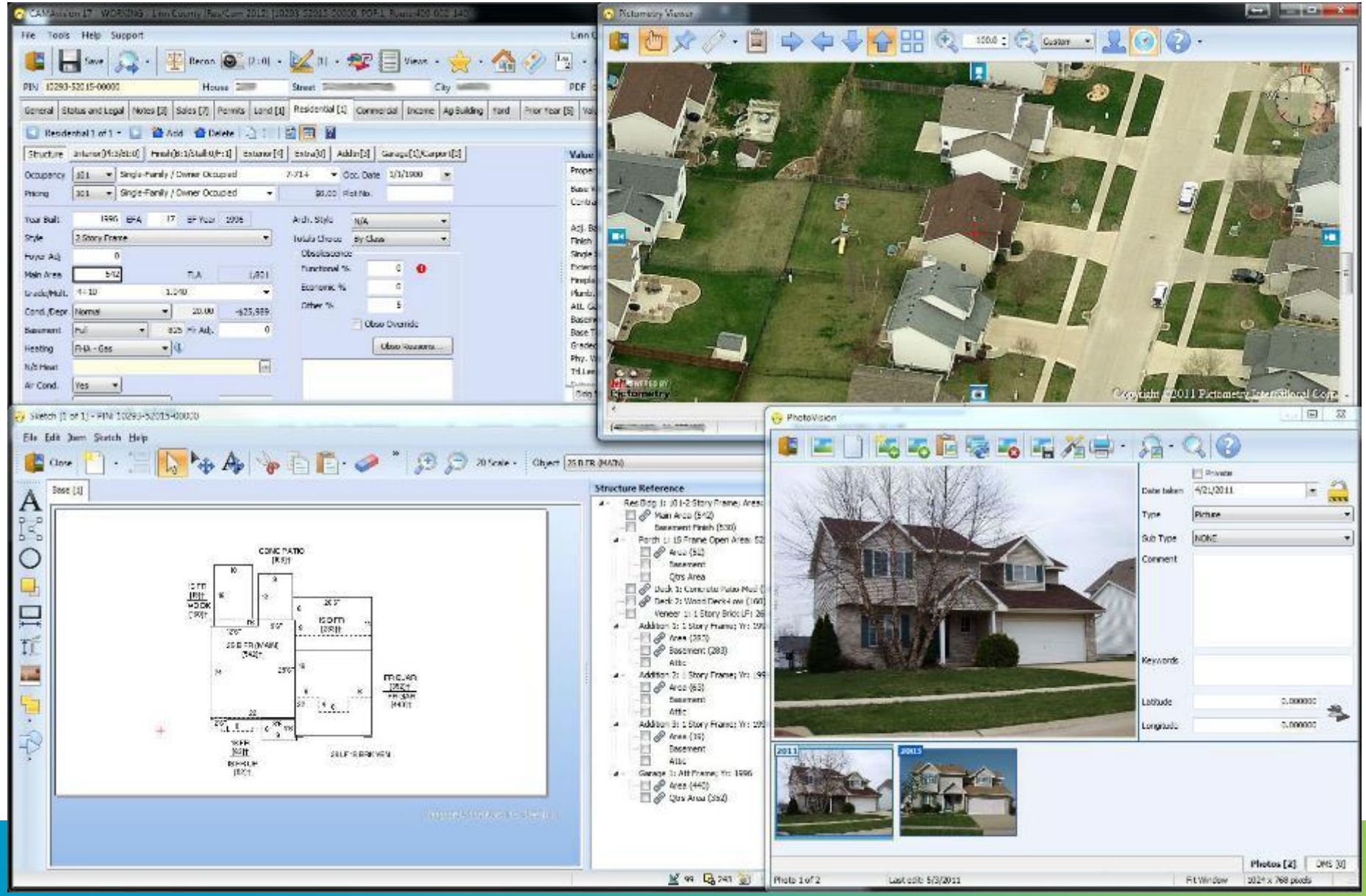
Integrations

- CAMA – Computer-Aided Mass Appraisal
- GIS – Geographic Information Systems
- CAD – Computed-Aided Dispatch
- Public Access



CAMA Integration / Desktop Review

(Tyler, Patriot, Bi-Tek, Farragut, Harris, Thompson Reuters, etc…)



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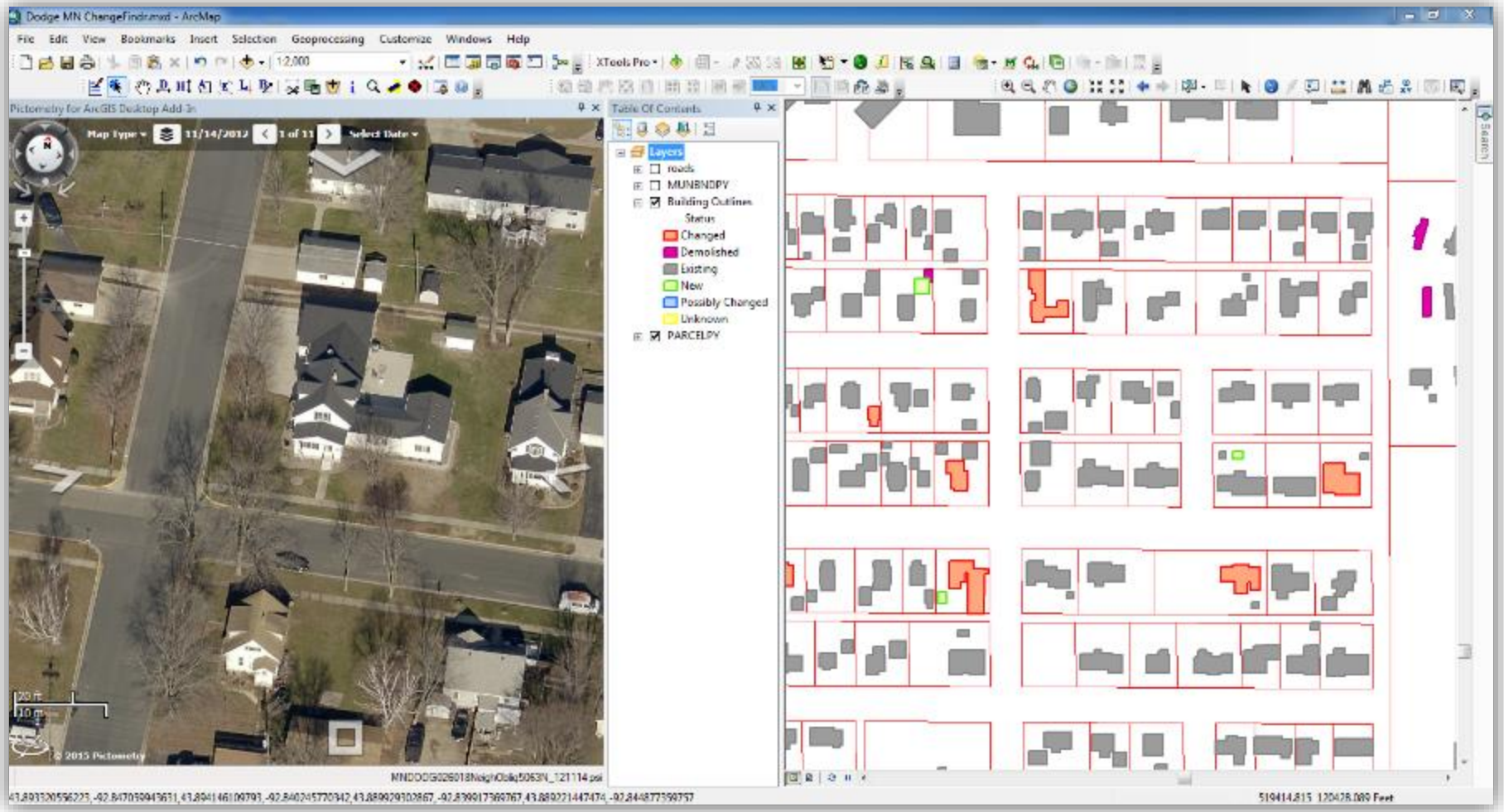
Local Integration into 911 CAD Software

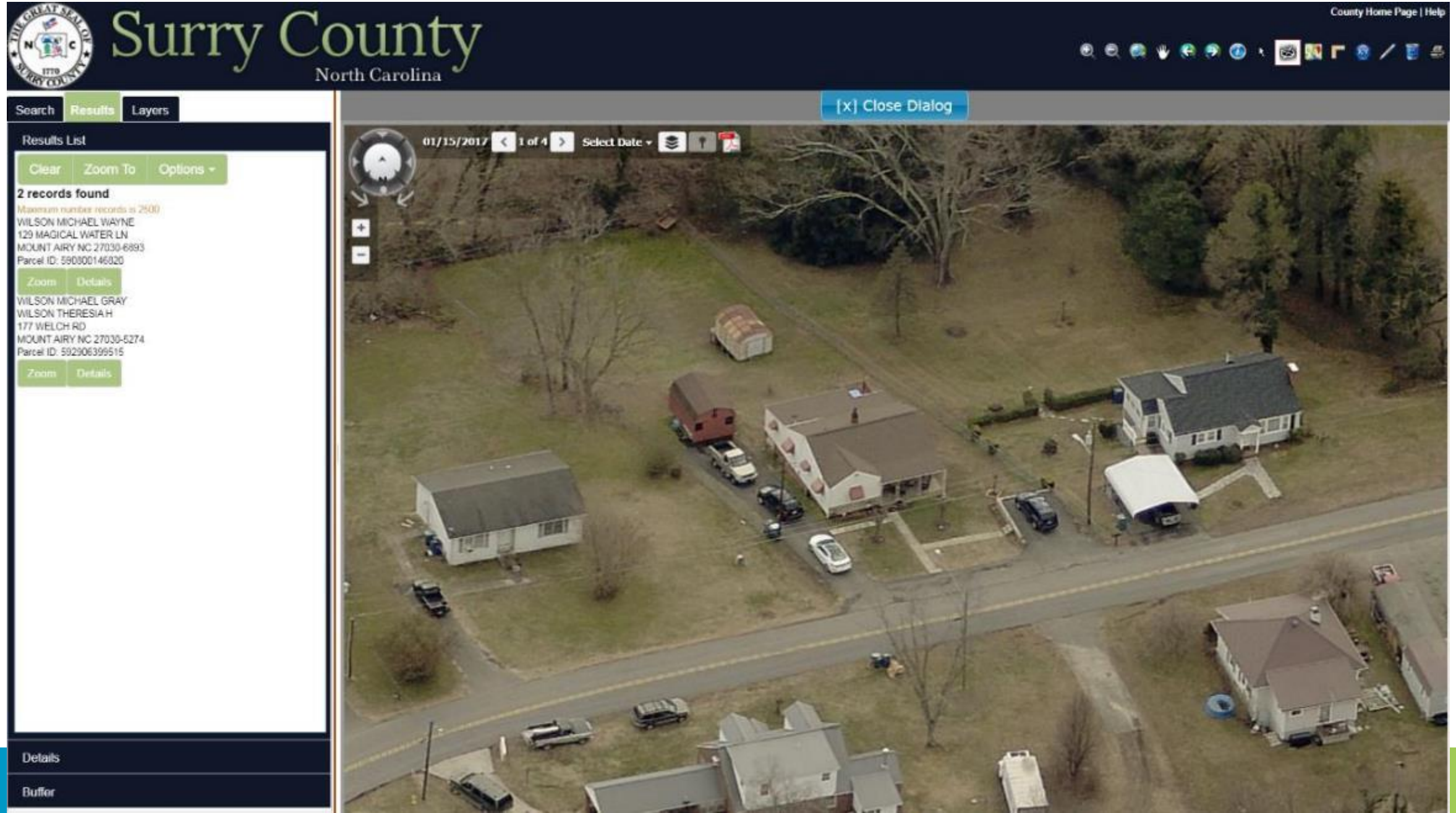
- Helps Locate Callers
- Verify Addresses
- An “eye in the sky,” conveying pertinent information to those on the scene

PICTOMETRY FOR ARCGIS DESKTOP / ARCPRO

View your oblique library from within Esri software

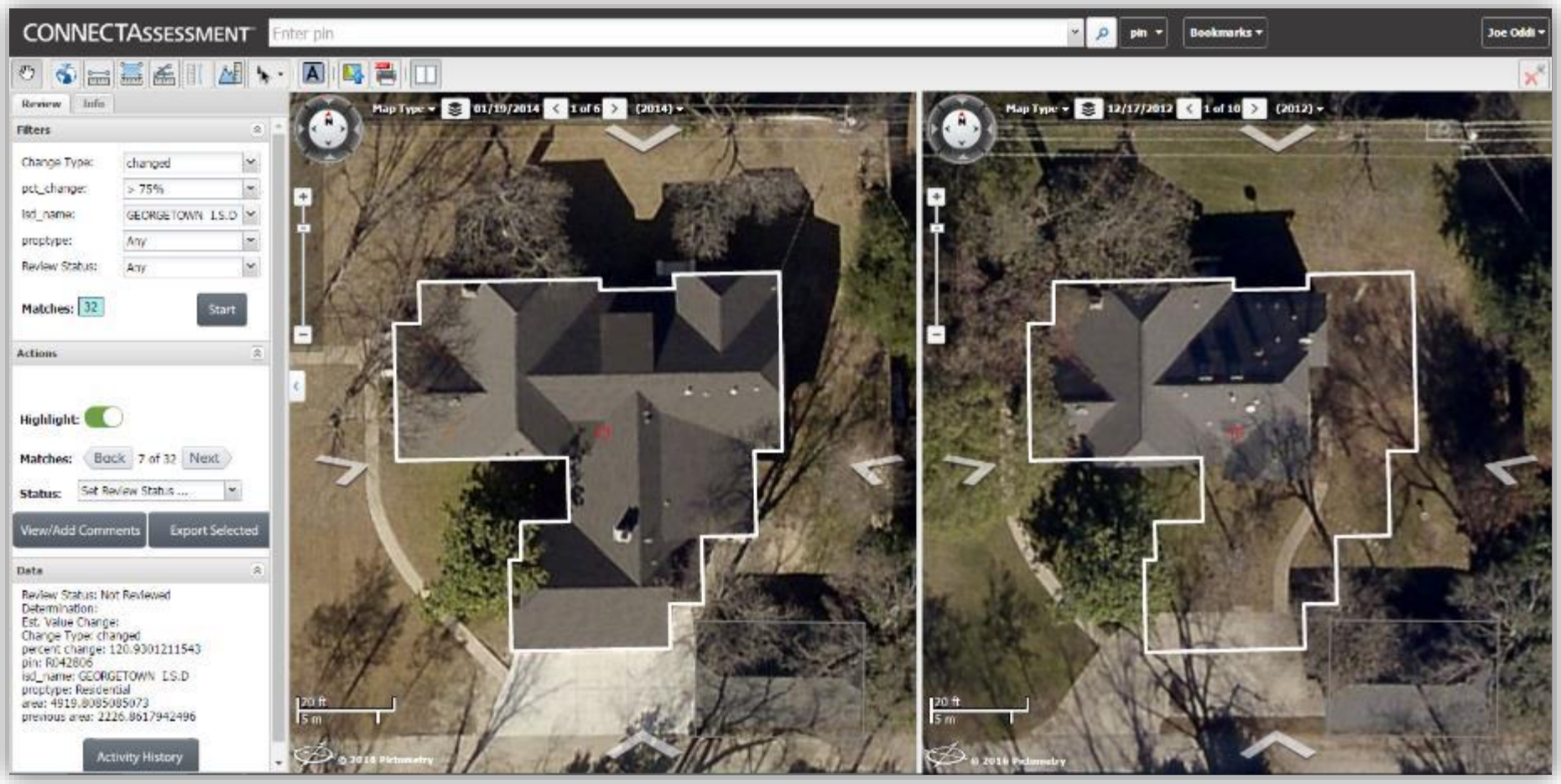


Public Access



Pictometry ChangeFinder

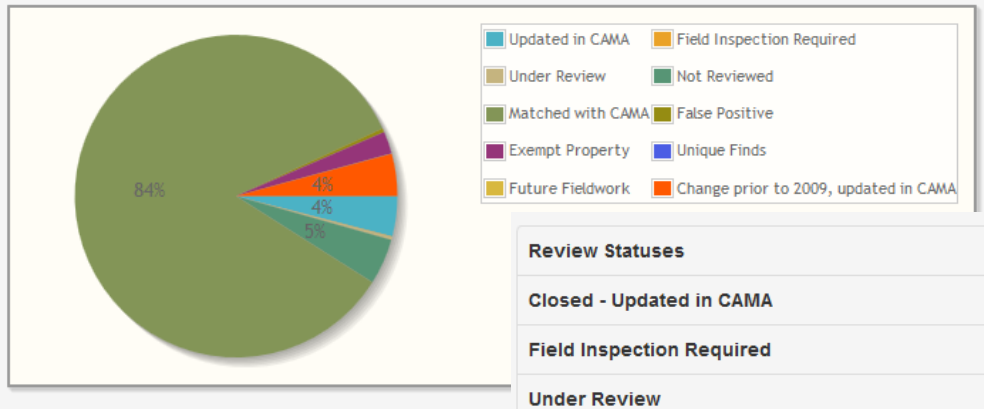
Full Change Detection Solution



W Washington St
E Washington St
W Hilton St
E Hilton St
W Marion St
E Marion St
South St
W South St
E South St
W Randolph St
E Randolph St
W Adams St
E Adams St
W Pine St
E Pine St
W Miller St
E Miller St
Cherry Ave
William Ave
Franklin Ave
Marengo Ave
Short Ave
Clinton Ave
Court Ave
Eastern Ave
Jefferson Ave
M Ave
Western Ave
Bear Creek Dr
Roberts Ave
V66
212
Legend
existing
new
changed
demolished
unknown

ChangeFinder - Track Results

Overall Project Summary



Review Statuses	unknown	demolished	changed	existing	new	Total
Closed - Updated in CAMA	6	178	342	192	248	**966**
Field Inspection Required	0	0	0	11	0	**11**
Under Review	0	3	8	42	21	**74**
Not Reviewed	0	0	0	1,100	1	**1,101**
Closed - Matched with CAMA	65	1,530	668	16,625	1,282	**20,170**
Closed - False Positive	21	7	45	2	16	**91**
Exempt Property	6	35	21	440	34	**536**
Unique Finds	0	0	3	0	1	**4**
Future Fieldwork	0	0	0	4	0	**4**
Closed - Change prior to 2009, updated in CAMA	0	0	12	1,000	4	**1,016**
Total	**98**	**1,753**	**1,099**	**19,416**	**1,607**	**23,973**
Est. Value Change	**$5,730.00**	**$-221,930.00**	**$1,143,005.00**	**$1,669,508.00**	**$1,125,810.00**	**$3,722,123.00**

Download as CSV

Total Reviewed	22,872
Total Closed	22,243
Percent of Work Reviewed (Excl. Existing)	99.98%

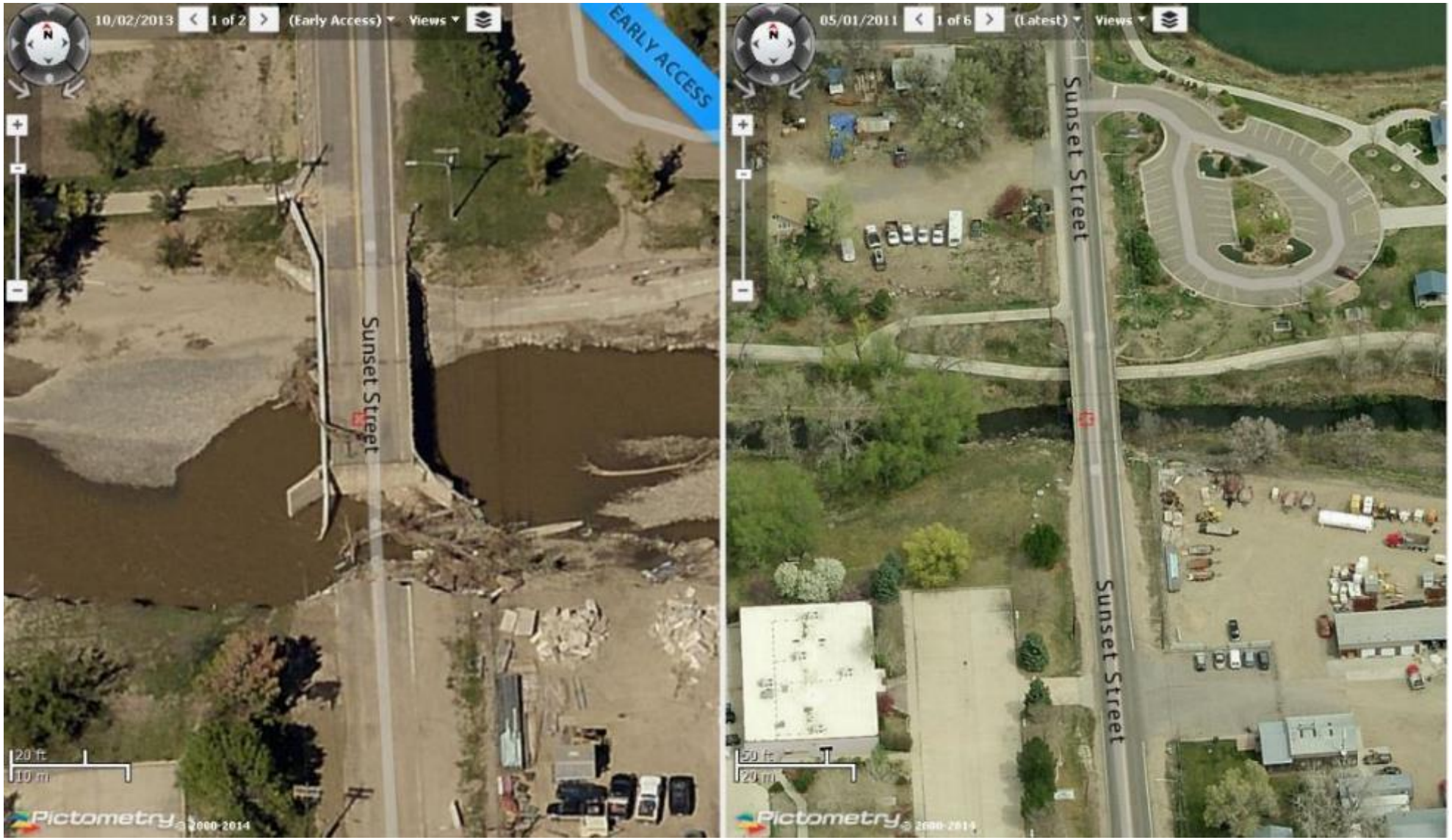
Pictometry ChangeFinder Results – Guilford County, NC

- Net discovered value: $50,458,169
- $344,687 revenue to be realized per year at the current tax rate.
- Recouped investment in 1.3 years

Pictometry SketchCheck

- Verify accuracy of your CAMA sketches from your desk
- Sketches are categorized by degree of consistency
  - Match
  - Minor Mismatch
  - Major Mismatch

Disaster Response – Damage Assessment



Training & Support

- Completely covered within your contract!
  - No “limit” to training or support hours available
- Dedicated Technical Trainer
- On-site Training
- Virtual Training
  - Attend a custom sessions from your desk
  - Attend monthly generic sessions
  - Recording available
- Self-paced
  - Brand New Training Website
  - Documentation
  - Videos
- Custom documents
- RTM Outreach

Questions?