

Quality Resource Management

For Property Managers, Homeowners Associations,
Building Service Companies, and Mobile Home
Properties.

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Draft

What comes to mind when you read the words: "**Quality Resource Management**"?

Initially, you'll probably respond and say: It depends on what the discussion is focused on. Let's unpack the words 1) Quality 2) Resource 3) Management - then we can also drill down and come to a basic understanding that:

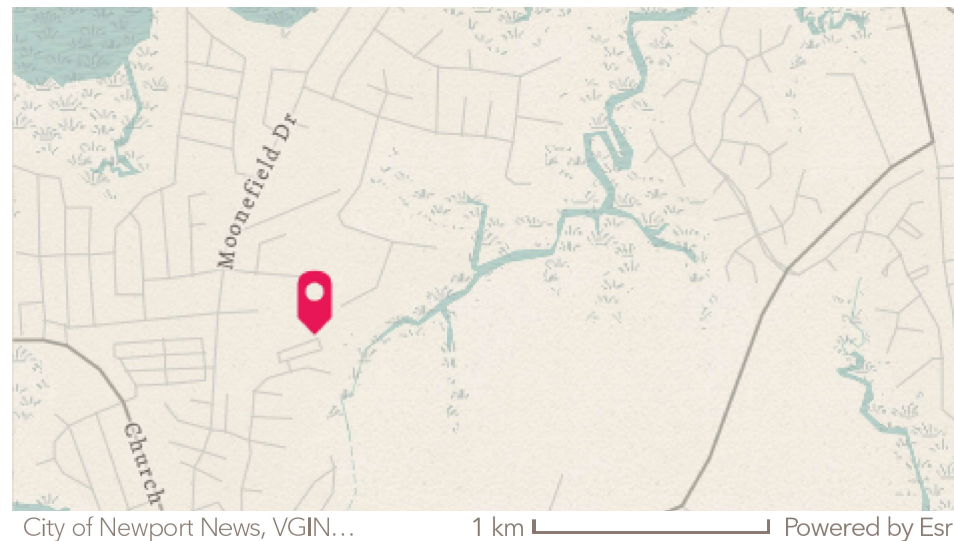
1) "Quality" refers to an essential feature or inherent character.

2) "Resource" refers to the ability to deal with a difficult or troublesome situation effectively; (resourcefulness) or something

that is available for use & that can be used for support or help .

3) "Management", broadly speaking refers to the act, manner, or practice of managing; handling, supervision, or control.

Let's attach these definitions to a physical property. A physical property with a street address. A physical property that has all kinds of "INFRASTRUCTURE". Things like, buildings , Lights, Sprinklers, Drainage, Hydrants, and Utilities.



Lakeview Cove Home Owners Association, Smithfield, Virginia

Let's take a look at one particular property in Smithfield, Virginia. The property is Lakeview Cove. This is a very nice community tucked away in a peaceful area which enjoys a touch of ruralness, and yet has easy reach to all the conveniences of the surrounding community. By all measures, Lakeview Cove consists of

Infrastructure not unlike most condominium communities and properties across America.

On the property are an assortment of utilities such as Electrical, Lighting, Water, Buildings, Sewer, etc. Let's pause for a moment and ask a couple of questions to those who are involved with the stewardship of such a property. How do we know what resources are within the property? How do we know how many resources are within the property? Ponder those questions for a moment and consider the progression of the following pictures and images.



Lakeview Cove Image (Courtesy Google Earth)



Lakeview Cove / UAS Imagery Capture May 2021 (Courtesy Air Aspects/GTMR)

We can see how good quality imagery alone (as shown here) helps us see this property in a perspective that allows for better analysis. For now, let's just say there is better Pixelation.

It is important to note that this is NOT just an ordinary image capture. It is not just a picture. This image has been Georeferenced. One of the major benefits that GTMR provides to their customers is to include quality geodetic control. This means that the imagery, and any illustrated features will have qualified real world coordinates. This has always been important in engineering works, and is becoming increasingly important for any geospatial data collection activities. An example of this could be the

importance of "811 - Call before you Dig" service, etc. Trust us; it is an important part of any geospatial product.



Ground Control Points (GCP's) for UAS / Imagery Operations

Now, let's add more information to see how this affects our intake of information. Let's examine some of the INFRASTRUCTURE (Utilities, etc.) and see if we are beginning to bring this property to life! We are also giving this property a real foundation for all future data collection.



Lakeview Cove Imagry showing various property Features

Now we can see many of the Features that exist on the Lakeview Cove property, but we still need some context to help us understand this better. So, let's add more information, and do so in a method that assists us while viewing the information. Let's add a Legend, North Arrow, Scale, and Index Map to help identify the Features.



Lakeview Cove Map Book Example with Symbology and Legend



Lakeview Cove Utility Pictures

Below is the entire property of Lakeview Cove shown in the Map Book Format. The Map Book can be printed in hard copy format for use by managers, board members, and other personnel as a common operating picture for discussions about the property. The benefit of the Map Book is that it can be produced at a "digestable"

scale so it can be viewed for most practical applications. In the case of Lakeview Cove there are 10 sheets in total. GTMR can also provide large scale hard copy maps of the property (think Wall Map), and provide a digital cloud based version that can be seen on any large screen format for zoom in/out capability. This is an increasingly popular product for meetings, and / or convenient viewing at your facility or office.

Lakeview Cove Home Owners Association Smithfield, Virginia

- Drainage Markers
- Drainage Photo
- Drainage Storm Drain
- Electric Meter
- Electric Panel Other
- Electric Panel
- Electric Pole
- Electric Vault/Enclosure
- Gas Meter
- Gas Other Point
- Sanitary Sewer Manhole
- Sanitary Sewer Other Point
- Sanitary Sewer Pump Station
- Sanitary Sewer Valve
- Sanitary Vault/Enclosure
- Water Hydrant
- Water Valve



0 25 50 100 150 Feet Page: A1

Lakeview Cove Home Owners Association Smithfield, Virginia

- Drainage Markers
- Drainage Photo
- Drainage Storm Drain
- Electric Meter
- Electric Panel Other
- Electric Panel
- Electric Pole
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- Water Hydrant
- Water Valve



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Lakeview Cove Home Owners Association Smithfield, Virginia

- Drainage Markers
- Drainage Photo
- Drainage Storm Drain
- Electric Meter
- Electric Panel Other
- Electric Panel
- Electric Pole
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- Sanitary Sewer Other Point
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- Water Hydrant
- Water Valve



0 25 50 100 150 Feet Page: A3

Lakeview Cove Home Owners Association Smithfield, Virginia

- Drainage Markers
- Drainage Photo
- Drainage Storm Drain
- Electric Meter
- Electric Panel Other
- Electric Panel
- Electric Pole
- Electric Vault/Enclosure
- Gas Meter
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- Water Valve



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Lakeview Cove
Home Owners Association
Smithfield, Virginia



Lakeview Cove
Home Owners Association
Smithfield, Virginia



Lakeview Cove
Home Owners Association
Smithfield, Virginia



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Page B5

Lakeview Cove
Home Owners Association
Smithfield, Virginia



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Page B6

Lakeview Cove
Home Owners Association
Smithfield, Virginia



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Page C2

Lakeview Cove
Home Owners Association
Smithfield, Virginia



0 25 50 Feet

Page C3

Complete Map Book for Lakeview Cove, Smithfield, VA.

As you can see, there are many options available to view data about this property. The Feature rich information shown on the maps can be easily brought into the database, which allows another level of functionality for the end user. Property managers can obtain a count of the property Features at the push of a button. There are many additional fields (Attribution) that can be included with each Feature. For example: Number of Sprinklers, type of Sprinkler, condition of Sprinklers, cost of Sprinklers, problem Sprinklers, etc. GTMR would like to assist with setting up a quality management tool that allows for efficient property management and communications.

The Lakeview Cove product shown is the BASIC Package. Within the BASIC Package are the following: Quality Aerial Imagery of the Property. Geospatially correct Feature and Imagery information. Basic Feature/Asset Layer. Map Book Product. Data Files of Features/Assets. *Setup for digital VIEWING of products for office / meeting use. Final Documentation, in a Report Format.

(* GTMR encourages Large Format screen setup (for VIEWING) in the office and/or meeting place to really take advantage of the product features).

Higher attribution comes at additional costs, as these are technically speaking, labor intensive products. Please ask about our additional products which can assist in management of the property. GTMR encourages the BASIC Package to begin with, allowing the users to get comfortable with the system, then incorporating additional

information as the user see's the need. Below is a Brochures that gives more detail about how GTMR can assist property managers to take advantage of our products.

GEOGRAPHIC TIME MANAGEMENT RESOURCE SURVEYS

The goal of GTMR is to assist Property Managers, Homeowner Associations, Building Service Companies, and Mobile Home properties by focusing on geographic resources.



GTMR SERVICES:

- Developing smart property management options
- Facilitating property management
- Adding value to property related decisions
- Comprehensive Top-Down View of Geographic Assets
- Saving Time and Money related to property services

Contact us:

See us on the web: www.gtmsurveys.com
Email: gtmsurveys@gmail.com
Call: (858) 430-6179

GTMR FLOW OF WORK:

- Prepare cartographic control on the property (We are Licensed and Certified)
- Provide UAS services to fly/capture Imagery (We are Licensed and Certified)
- Produce quality mapping product of the property (We are Licensed and Certified)
- Final Deliverable consists of Hardcopy and digital products for continued use.
- GTMR Surveys helps maintain the resources.
- GTMR provides solutions. Need to know the condition of roofing? Need to assess Thermal loss? (In summer or winter). Need to see problem areas at a glance? Need to assist maintenance personnel with location specific information? (before they arrive on the worksite or after an emergency). Need an accurate count of features on the property? i.e. How many Hydrants? Their Location? Their Condition? How many Utilities? For Water? For Electric? For Drainage? For Lighting?
- These are just a few of the questions that we help answer about the property.
- Again, **INFRASTRUCTURE** is key. Take control of assets on the property.



LEVERAGE OUR EXPERIENCE TO ASSIST MANAGEMENT OF ASSETS.



WHY DO YOU NEED GTMR SERVICES?

We all know that when it comes to properties, that INFRASTRUCTURE is key! Mother Nature is not kind to any man-made infrastructure resources. Get a jump on identifying problem areas of a property.

- Obtain a holistic view to determine the extents of any potential problems.
- Understand what kinds of resources will have to be deployed, whether it be financial, time, personnel, and/or materials.

GTMR CAN ALSO HELP WITH:

- Developing smart Options; asset counts, number of features, etc.
- Making use of our imagery products and mapping products.
- Developing plans with clarity.
- Quickly bringing personnel up to speed on the spot, or in the office.
- Creating a common operating picture.

GTMR PHILOSOPHY

We aspire to be a partner on the team and to bring geographic clarity regarding property assets, and resources. Our concept is simple; collect data about geographic resources located on the property, show the resources on a mapping platform, and combine those resources with additional information to leverage decisions and options.

- We build a customized mapping product (based on the individual property) so that organizations can manage the facility more effectively.
- Property managers and personnel will be able access and view the geospatial information graphically on hard-copy paper maps, or digitally.
- This gives convenience at meetings, at a workstation, or in the field. Any Place, Any Time, Any Where.

GTMR PRODUCTS ARE POWERFUL AND AFFORDABLE:

- Quality Imagery
- Quality Geospatial Data
- Quality Mapping & Map Book
- GTMR is Licensed and Certified for the work we perform.
- Final Documentation
- Ongoing Support

LEARN MORE ABOUT OUR PRODUCTS AND SERVICES

Contact us:
See us on the web: www.gtmsurveys.com
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Beyond the BASIC Package is an additional product which includes CAPTURED LINE WORK. This is a term that GTMR shares with

a business affiliate to designate a specific, higher level product. Here is an example below which shows the CAPTURED LINE WORK at the Lakeview Cove property. There are many additional products that property proprietors will find very useful. To understand all the benefits of this product will require a sidebar session so that additional time can be used for presentation, questions, and answers. Some of the Captured Line Work Features depicted are Building Footprints, Balconies, Contours (Elevations), Parking Spaces, Hardscapes, Walkways, Tree Driplines (Canopies), etc. This type of information can be of great value to property managers.



CAPTURED LINE WORK Product showing building footprints, contours, etc.

Geographic Time Management Resource Company has partnered with several other companies to develop this product. The response has been positive and we want to continue to develop and offer this service to property managers. The reports that we provide will cover the important Features of the property and GTMR would appreciate the opportunity to partner with Property Managers, Homeowner Associations, Building Service Companies, and Mobile Home Parks to better serve the communities.

Costs are based upon a number of factors, but primarily on the size of the property, and complexity of the property in question. We can provide a quote upon request for any property. Please give us a call to see if we can partner to assist in property management.

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