



Situating a Community Center for the Elderly in Alachua County

Team Four

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Main Goal

To achieve three parcels with...

A high concentration of elderly residents

Access via bus routes, roads and bicycle trails

Healthcare facilities nearby

Schools and libraries

Groceries and other amenities

Background

Alachua is diverse

The elderly are part of what make Alachua diverse

A community center that provides for the elderly would give them a better quality of life

The location of such a project is an important aspect that will determine its usefulness and possibly success or failure

Scope

Our project Focuses on residents of Alachua County that are 65+

Using ArcGIS the three best potential sites must be located

This must be done while considering both those who will be using the facility, the site of the facility, and its situation

There are both positive and negative attributes to consider in making this decision

Objectives

Places that are not suitable or could not be built on

- Environmentally protected areas
- Areas zoned specifically for residential use
- Areas that were too far away from areas with high concentrations of 65 or older residents
- Areas away from major roads
- Areas away from treatment facilities
- Areas too close to undesirable wastes or facilities

Objectives (cont.)

Places that are suitable

- Undeveloped lots that are ready to be built on
- Locations near major roads
- Locations near Natural amenities
- Locations that are close to bus routes

Objectives (cont.)

Beneficial services close to bus routes

- Libraries
- Schools
- Hospitals
- Grocery Stores
- Retail Stores

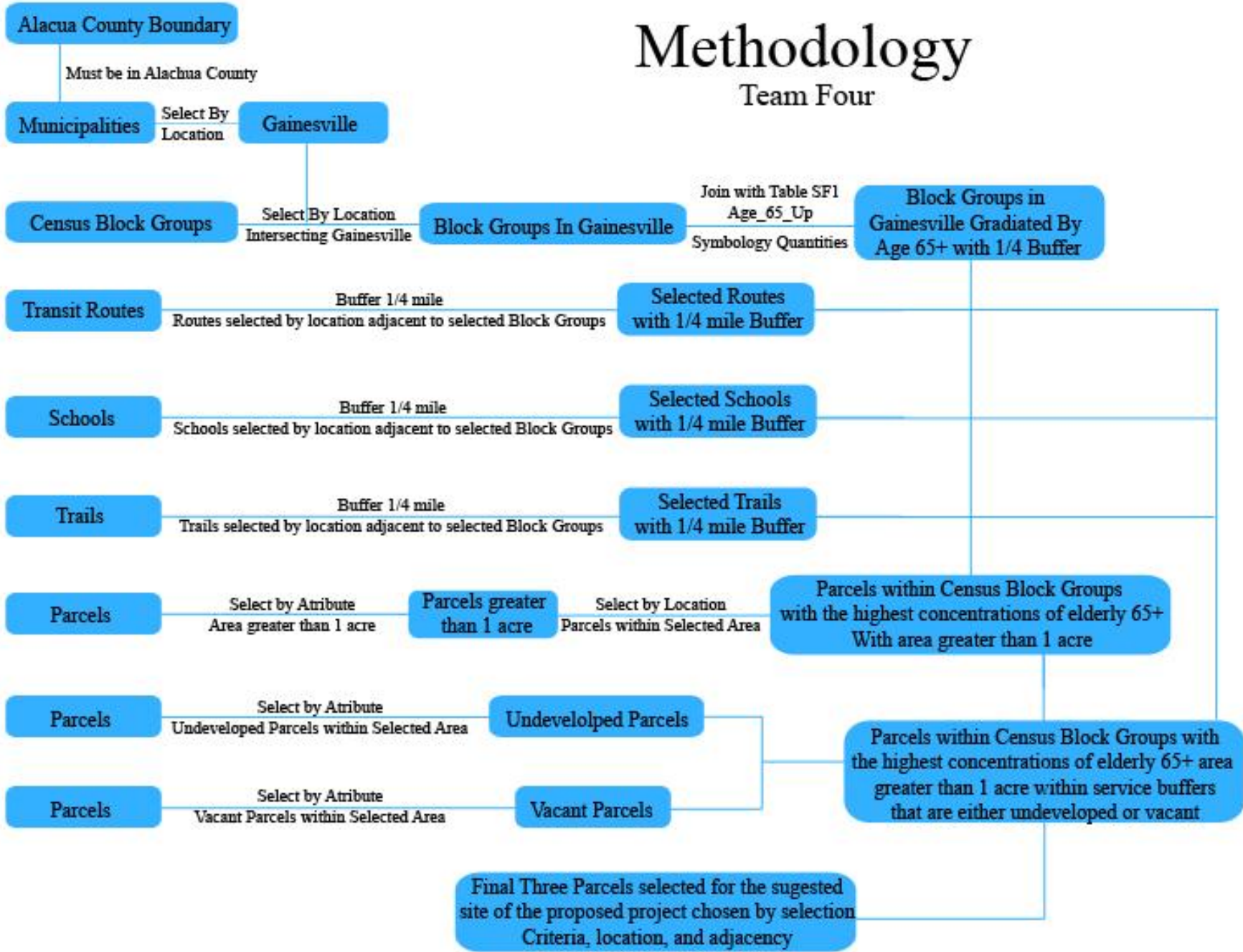
Methodology

Group 4 wanted to provide the elderly with a community location that was convenient for their unique needs and interests



Methodology

Team Four



Methodology (cont.)

Census Groups

- A community center for the elderly should be located in the center of elderly communities
- Use sybology to determine the most dense population of citizens 65 and over
- Experiment with different intervals of display to find best results
- Select densest areas

Methodology (cont.)

Services

- A Community center for the active senior
- Nature Trail buffered at a quarter mile
- Bus Routes buffered at a quarter mile
- Schools buffered at a quarter mile
- Located near healthcare facilities, grocery stores, libraries

Methodology (cont.)

Parcels

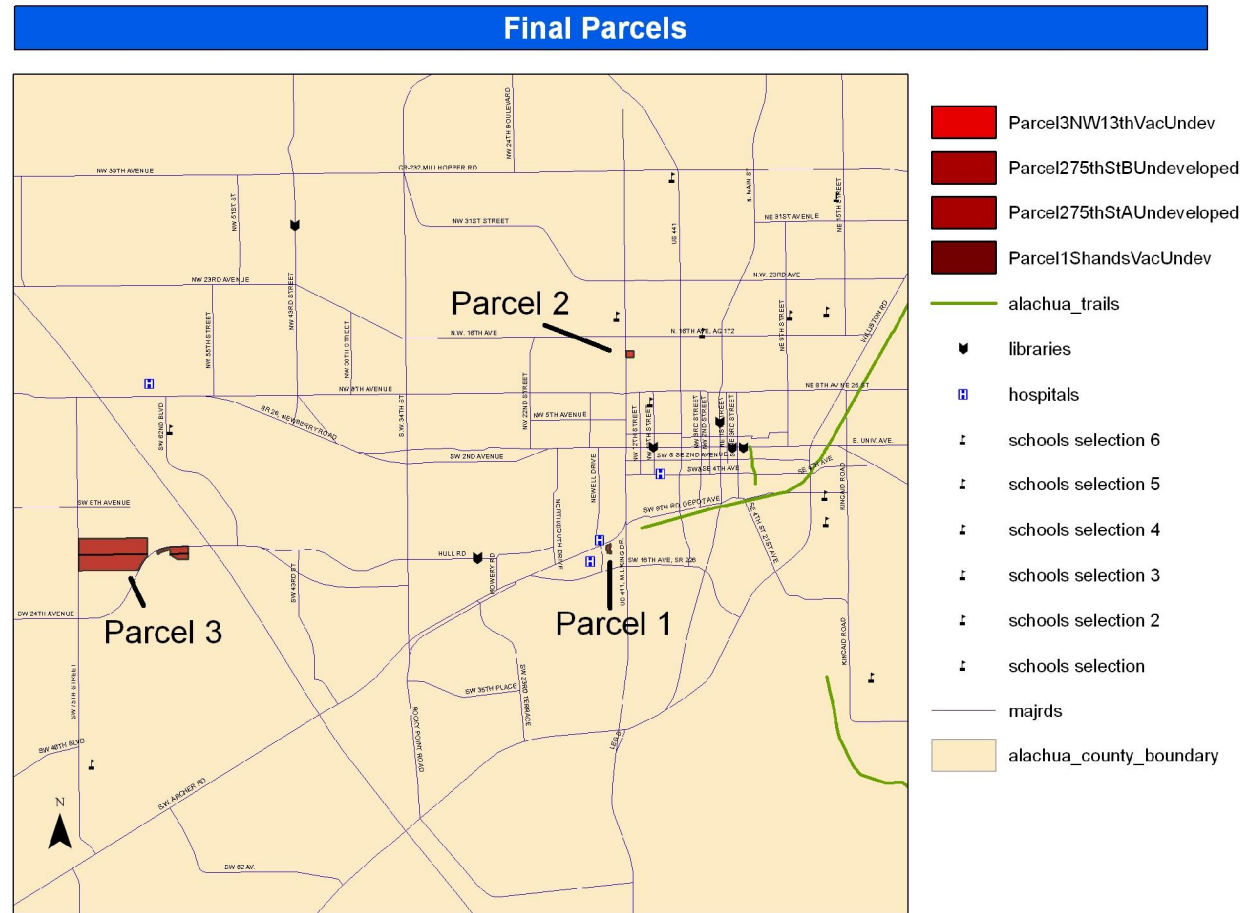
- Locate parcels that are within Gainesville
- Parcels that are on major roads
- Parcels that are within Census Blocks that have the highest percentage of People 65+
- Select parcels that are vacant
- Select parcels that are undeveloped
- This gave us a manageable target group

Project File Inventory

census_block_groups.shp	To view the demographic data the way that it was originally collected
sf1.shp	To allow us to narrow down the age data
ala_empl_infousa.shp	To locate specific forms of healthcare viewed as very influential to parcel selection
alachua_county_boundary.shp	Because the parcels had to be in Alachua County
alachua_trails.shp	Trails are a desirable amenity
brownfield.shp	To eliminate parcels located near from these areas
ecological_inventory.shp	To eliminate parcels that were located in these areas
fema9601.shp	To eliminate parcels that were in the flood plane if possible
hazardous_waste.shp	To eliminate parcels near these areas
hospitals.shp	Viewed as a service that is very influential to site selection
majrds.shp	Parcels located on major roads or highways
municipalities.shp	To find parcels that are located in Gainesville
parcels.shp	Because we are specifically looking for parcels
schools.shp	For lifelong learning as well as volunteer opportunities with children
sewage_treatment.shp	To eliminate parcels that were located adjacent to these areas/facilities
superfund.shp	To eliminate parcels that were located in these areas
transit_routes.shp	To find parcels on transit routes
urban_services.shp	To find parcels that had urban services provided such as libraries and others
wetlands.shp	To eliminate parcels in these areas

Results and Discussion

ArcGIS obtained many parcels, but through the criteria that was applied, only three were selected.



Parcel 1

Parcel with vacant building that can be used as inventory for new community center

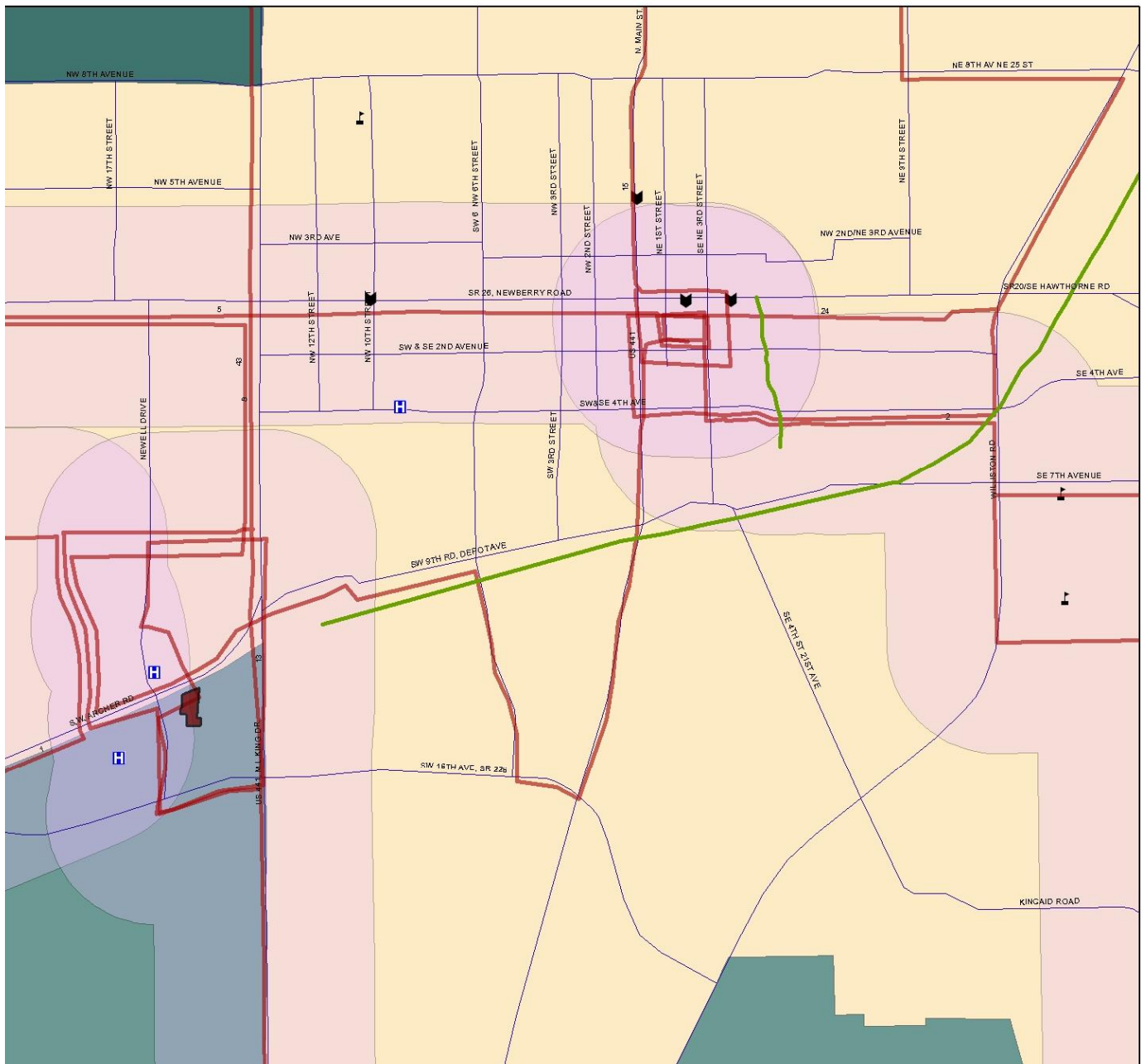
Location: 720 SW 2nd Ave

Owner: Southeastern Healthcare Foundation, inc.

Size: 1.8 acres

Category: Vacant Commercial

Parcel 1



- Parcel1ShandsVacUndev
- hospitals
- alachua_trails
- Route2
- Route13
- Route8
- Route1
- Route5
- Route75
- Route43
- Route24
- Route15
- libraries
- schools selection 6
- schools selection 5
- schools selection 4
- schools selection 3
- schools selection 2
- schools selection
- majrds
- transit_routes_Buffer5
- transit_routes_Buffer4
- transit_routes_Buffer3
- transit_routes_Buffer2
- transit_routes_Buffer1

census_blockgroups in gainesville

SF1.AGE_65_UP

- 85 - 91
- 92 - 103
- 104 - 144
- 145 - 210

Parcel 1 Discussion

We chose this parcel as our first choice because of its central location. The property lies at the junction of many bus routes (one of which goes to the career resource center), is located just south of the University of Florida campus, and is seconds from Shands Teaching Hospital and the Veteran's Administration Hospital. Also, the existing inventory on the site makes for lower development costs.



Parcel 2

Parcel with vacant building that can be used as inventory for new community center

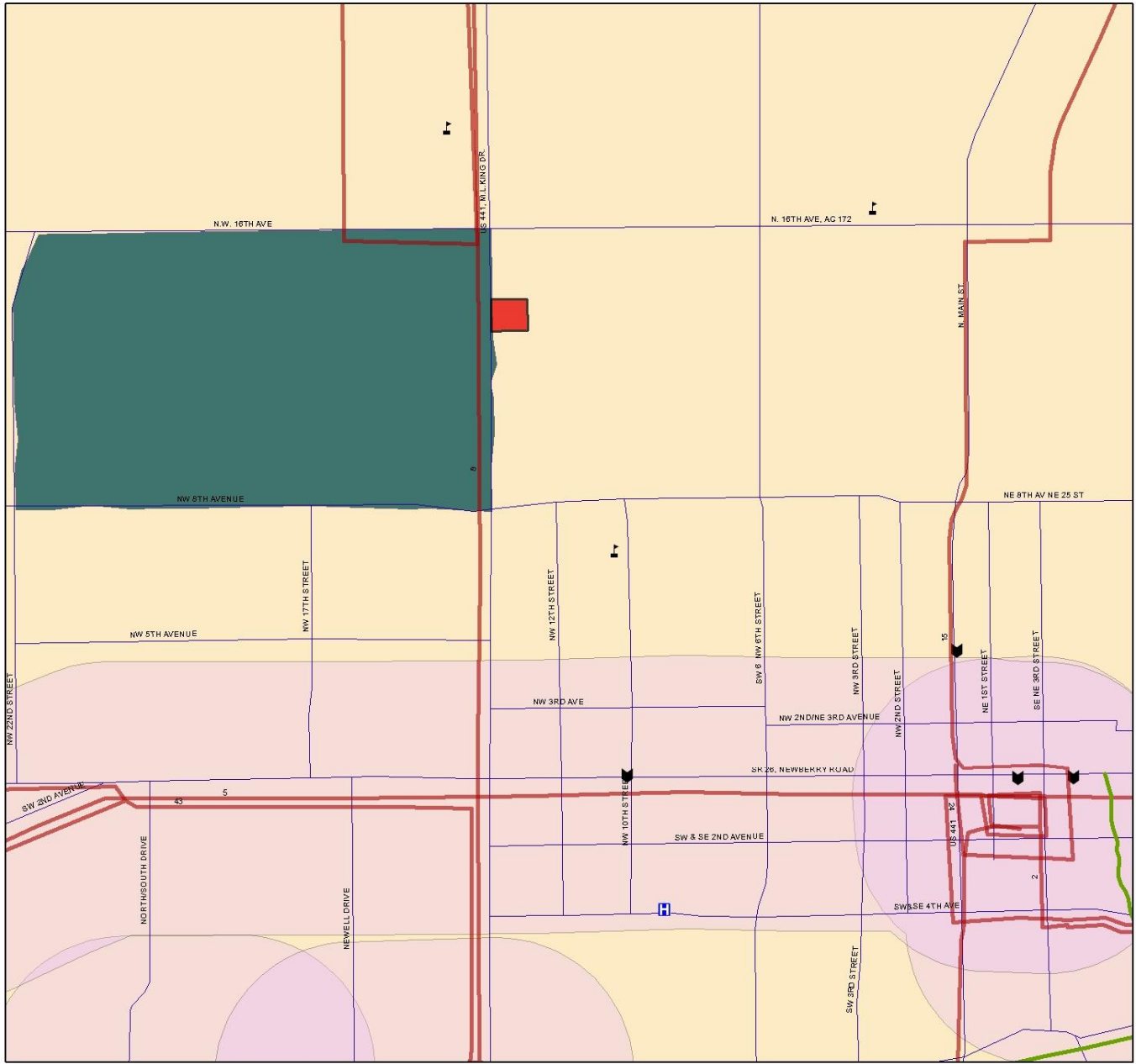
Location: 1221 NW 13th Street

Owner: Civitan Regional Blood Ctr, Inc.

Size: 2.54 acres

Category: Vacant Commercial

Parcel 2



- Parcel3NW13thVacUndev
- hospitals
- alachua_trails
- Route2
- Route13
- Route8
- Route1
- Route5
- Route75
- Route43
- Route24
- Route15
- libraries
- schools selection 6
- schools selection 5
- schools selection 4
- schools selection 3
- schools selection 2
- schools selection
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- transit_routes_Buffer1

census_blockgroups in gainesville

SF1.AGE_65_UP

- 85 - 91
- 92 - 103
- 104 - 144
- 145 - 248

Parcel 2 Discussion

This parcel is located next to a census blockgroup with one of the densest populations of elderly (65+) in Gainesville. The parcel is minutes away from downtown via the transit route that it sits on, and other destinations are only a few minutes further. The existing structure on the property allows for lower construction costs if this parcel is to be used.



Parcel 3

Large Undeveloped Parcel with the greatest potential for freedom of development. This parcel can be used to create large parks and developed to gain revenue for supporting its primary use.

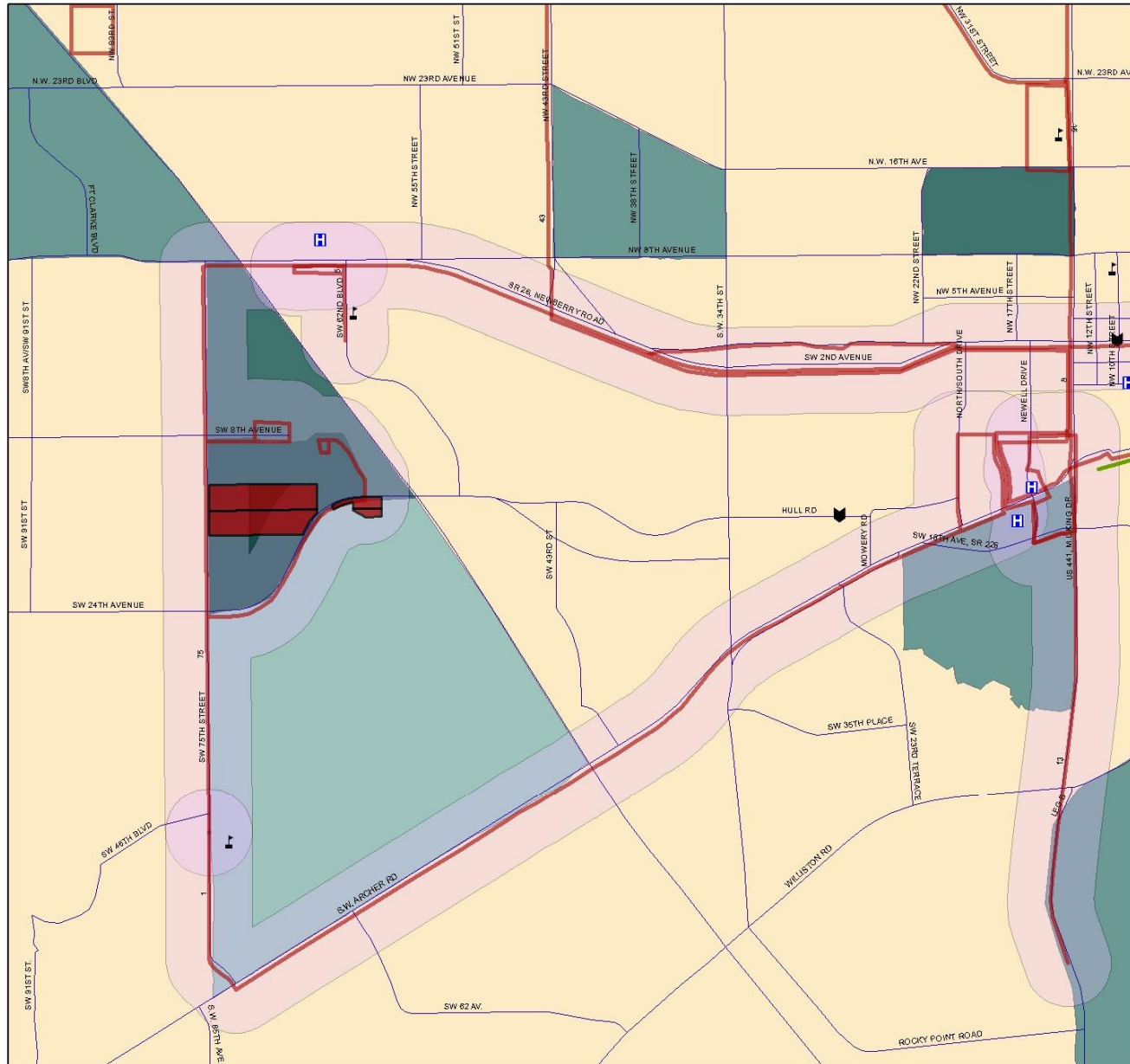
Location: 3501 S Main St.

Owner: James D. Henderson Trustee

Size: 106.5 acres

Category: Agricultural

Parcel 3



- Parcel275thStBUndeveloped
- Parcel275thStAUndeveloped
- hospitals
- alachua_trails
- Route2
- Route13
- Route8
- Route1
- Route5
- Route75
- Route43
- Route24
- Route15
- libraries
- schools selection 6
- schools selection 5
- schools selection 4
- schools selection 3
- schools selection 2
- schools selection
- majrds
- transit_routes_Buffer5
- transit_routes_Buffer4
- transit_routes_Buffer3
- transit_routes_Buffer2
- transit_routes_Buffer1

census_blockgroups in gainesville

SF1.AGE_65_UP

- 85 - 91
- 92 - 103
- 104 - 144
- 145 - 248
- 249 - 363

Parcel 3 Discussion

This parcel is located in the census blockgroup with the most elderly per capita in Gainesville. It is located west of I-75 and is further away from downtown than the previous two parcels. However, the biggest advantage to this location is its size. With over 100 acres, this site contains plenty of space for development. Not only could a community center be built, but also other amenities along with it. Instead of looking for a parcel with the greatest number of amenities near it, this location has the opportunity of development while still meeting the initial criteria. The ample land creates a possibility for development and profit, possibly helping to fund the community center.



Conclusion

Our Group developed selection criteria for three prospective future sites of a community center for the elderly. Three quality parcels were garnered using the techniques and criteria specified throughout this project. This exercise gave us an opportunity to use tools and techniques in ArcGIS to find suitable locations and offered a glimpse into how progress is made in the modern community.