

Chapter 5 Community Facilities & Services

Community facilities are public infrastructure, property, structures, and spaces that are owned, maintained and operated for the benefit of the public. Existing community facilities in Ludowici are shown on Map 3. This element provides an overview of the community facilities in Ludowici and identifies policies on the development and maintenance of community facilities and services for the next 20 years.

5.1 Inventory

Ludowici's Transportation Network

The City is responsible for the maintenance of 8.24 miles of paved and 3.24 miles of unpaved roads and approximately 4.5 miles of sidewalks. The State is responsible for maintenance of 2.89 miles of paved roads within the city limits. The Georgia Department of Transportation (GDOT) provides the following classification of roadways in Ludowici (See Table 31).

**Table 31
Transportation Level of Service**

Type of Road System	Function	Speed Limit (mph)
Rural Principal arterial: Stable Flow 0 Miles	a. Intercommunity connections b. Collects traffic from collector routes Access to property along main transportation routes	35-65
Rural Minor arterial: Stable Flow 0 Miles	a. Collects traffic from collector routes b. Access to property along main transportation routes c. Routes traffic to principal arterials	35-55
Rural Major Collector: mixture of stable flow and stop and go 0 Miles	a. Provides direct access to arterials b. Facilitates intra-Long county travel c. Allows access to local transportation routes	35-55
Rural Minor collector: mixture of stable flow and stop and go 0 Miles	a. Provides direct access to arterials b. Facilitates intra-Long county travel c. Allows access to local transportation routes	25-55
Rural Local: mixture of stable flow and stop and go 22.96 Miles	a. Collects traffic from residential areas b. Provides access from neighborhoods to collectors c. Provides direct access to arterials d. Facilitate intra-city travel e. Allows access to local transportation routes	25-55

Source: GDOT, Office of Transportation Data, Lane Miles by Route and Road System

The major state routes in Ludowici are:

- ③ SR 23/84 connects Ludowici to Jesup, Georgia to the west and Hinesville, Georgia to the east.
- ③ SR 38 links Ludowici to Glenville, Georgia
- ③ SR 57 links Ludowici to Darien, Georgia

Traffic counts conducted in July 2001 show the following average annual daily traffic (AADT):

- ③ SR 23/84 – Between Roberson and Main, Ludowici, 11,450
- ③ SR 23/84 – Between Wiregrass Trail and Thornton Drive, Ludowici, 4,900
- ③ SR 57 – Between Cypress Street and Caesar Drive, Ludowici, 5,250
- ③ CR 113 – Between Cypress Street and Hendrix Street, Ludowici, 2,330

Railway Systems

CSX railroad operates a east-west line parallel to US 84 thru the southern portion of the city.

Air Transportation Systems

The City of Ludowici does not have an airport. Wright Army Airfield will allow civilian general aviation use beginning in September 2006.

Public Transportation Systems

Long County has operated a rural public transportation system as part of GDOT's rural 5311 program for approximately 15 years. This rural public transportation system operates in conjunction with the Department of Human Resources (DHR) coordinated transportation program for the provision of transportation for eligible DHR consumers. These two programs work collaboratively to provide one seamless transportation system for the citizens of Long County and Ludowici.

Water Supply and Treatment¹

The city has two municipal wells. The main tank has a storage capacity of 100,000 gal and is 30 years old. An additional 250,000 gal tank built in 2005 is provided at the Correctional Facility.

Average consumption is 340,000 gallons per day, with service to 669 customers (605 residential and 64 commercial). System is permitted for withdrawal of 740,000 gallons per day. Water is treated with chlorine and fluorides at both well sites. The two wells are tied together. The system is in fair condition.

Sewerage System and Wastewater Treatment

Sewerage and wastewater are handled by a municipal waste water treatment facility in Ludowici. The City of Ludowici system currently serves 531 customers (472 residential and 59 commercial). The City of Ludowici sewage and wastewater treatment facility has been permitted for an average daily discharge of 240,000 gallons. The current average daily discharge rate is about 160,000 gallons.

¹ Public Water and Sewage Supervisor

The wastewater comes into the pre-treatment area of the oxidation pond and then to the secondary treatment area. The water is then discharged to the holding pond. The system has two discharge points 1) Land Application System and 2) a stream leading to Jones Creek. The Land Application System (spray fields) consists of approximately 35 acres. The system will allow for future development.

Solid Waste

City of Ludowici has submitted a Solid Waste Management Plan that complies with the Comprehensive Solid Waste Management Act and the rules for Solid Waste Management. Ludowici operates a municipal inert landfill. The estimated life of this landfill is 10 years. Long County also operates two service centers that collect white goods and metal for recycling. 951 tons of metal were collected in a two-year period-2003-2004.

The City provides weekly curbside service once weekly and collects household garage and yard debris as needed. Customers are charged \$14.00 monthly for collection of waste. Commercial customers are charged by container size monthly.

Household garbage is disposed at Broadhurst Environmental Landfill located in Wayne County, Georgia. Yard debris is taken to Ludowici Inert Landfill. There are 472 residential customers and 59 commercial customers. Over 7,700 tons of solid waste were taken to Broadhurst Environmental Landfill in 2003, and about 8,600 tons in 2004.

Table 32
Long County and Ludowici Projected MSW Short Tons 1995-2004

Category	2003	2004
Total Projected Population	11,171	11,460
Pounds Per Person	3.81	4.13
Annual Short Ton Per Person	0.70	0.75
Annual County Short Ton Total	7,773	8,628

The City of Ludowici does not operate a recycling center. Long County does operate collection centers for recyclables. All city residents have access to this facility.

Public Safety

The City of Ludowici employs 1 police chief and 5 certified patrol officers. The Ludowici Police Department provides a full range of services such as patrol, traffic, criminal investigations and accident investigations. Each officer works a twelve-hour shift. Level of service is one officer for every 1500 citizens. A fleet of six fully equipped patrol cars is maintained.

The city operates municipal court for disposal of traffic citations and ordinance violations.

The city works with schools and other agencies to provide educational materials to students, along with safety equipment (bike helmets, stickers, etc.). No animal control is in effect.

Georgia State Patrol

A Georgia State Patrol post is located 15 miles north of Ludowici on US 84 in Hinesville. The State Police patrol I-95, US 84, and state highways.

Fire Protection (Countywide)

The volunteer fire department (ISO Class 5) operates five stations:

- a. Station One – one Class A 1200 GPM, 1000 Gal Tank, 1995 E-1 and one Light Rescue 1976 Chevy
- b. Station Two – one Class A 750 GPM, 750 Gal. Tank, 1967 Maxin Ford and one 5000 Gal. Tanker, 1982 GMC
- c. Station Three – one Class A 1970 Ford, 750 GPM, 750 Gal. Tank
- d. Station Four – one Class A 1972 Ford, 750 GPM, 750 Gal. and one 1800 Gal 1978 GMC Tanker Truck
- e. Station Five – one Class A 1000 GPM, 1000 Gal 1978 International Tanker

Long County Emergency Management Agency (EMA)

Long County EMA operates on a strictly volunteer basis, with a director and an assistant director, who also serves the Red Cross. Long County's EMA is preparing their LEOP and has already completed their Georgia Homeland Security Plan. Emergency medical services are managed by Long County EMA.

Court System

The Long County State Court and the City of Ludowici Municipal Court are both located in the courthouse building on SR 57/US 25.

Hospitals and Other Public Health Facilities

Neither Long County nor Ludowici has a hospital. Individuals requiring hospitalization go to hospitals in neighboring Chatham, Glynn, Liberty and Wayne counties.

Long County has no dentist or physicians practicing within its jurisdictional borders. Excellent health care exists within 15 minutes of Ludowici

Long County Health Department

Personal health care is offered through cancer screening, mammograms, stroke and heart prevention programs, including low cost medications, immunizations, prevention education, family planning services, pregnancy testing, individual nutritional assessment and counseling, WIC for formula, milk and other foods for children is provided. Population based services are provided including regulation of septic tanks and sewage disposal, food service inspections, rabies control, swimming pool inspections and childhood lead poisoning prevention. Testing and treatment is provided for TB, HIV and STDs. Three school nurses are provided in the Long

County schools to educate students and promote healthy life choices including teen pregnancy prevention and reduction of childhood obesity.

Long County Department of Family and Children Services provides public assistance including food stamps, Medicaid, childcare services, energy assistance and child protective services such as foster care, adult and child protective services.

The Visiting Nurses Association provides home health care for shut-ins.

Recreation

Long County is responsible for all recreational activities and facilities. Recreational opportunities include beaches and rivers in coastal Georgia.

Government Facilities

Municipal facilities include:

- ③ City Hall is located at 47 N. Main Street. The facility houses the Mayor's Office, administrative staff, and the meeting room for the Mayor and City Council.
- ③ The public works shop is located on GA 301. The workshop includes office space for the public works superintendent.
- ③ The equipment shop is located behind the public works shop

Education Facilities

Three public schools and one private school are located in Long County:

- ③ Smiley Elementary School 649 students
- ③ Walker Middle School 615 students
- ③ Long County High School 914 students
- ③ Faith Baptist Christian Academy 161 students

Library

Long County public library has been at its current location for approximately 13 years. Currently the library has 12 computers available for public usage. The library has an average 400 patrons per month. Patron usage is higher during the summer months, with a large number of children participating in the summer reading program. The City of Ludowici pays all utility bills for the library. The library is currently considering an addition for the purpose of housing historical artifacts. This room would be approximately 400 sq. ft.

5.2 Assessment

Transportation Network

There are currently 574 tagged vehicles in Ludowici, which is about one vehicle per household. Within the next twenty-year planning period, that number will increase to 627. The projected

increase in population and vehicles is not expected to adversely affect the transportation system.

The current level of service (LOS) for Ludowici is adequate and is expected to meet future needs based on projections. The minimum LOS for Ludowici is C. The Georgia Department of Transportation (GDOT) classifies the transportation system in Ludowici as rural. The majority of traffic is concentrated on US 84.

Individuals living within the city limits have an excellent transportation system. The City of Ludowici has 3.24 miles of unpaved roads and 8.24 miles of paved roads.

The city encourages developers to make maximum use of the available infrastructure by use of cluster and infill development. Currently, the city has no tools to manage growth. The city does recognize the fact that tools to control growth are needed.

It will cost \$350,000 to pave the unimproved roads in the City of Ludowici. Currently, all paved segments and geographic sections have a LOS of C or better. The city will not allow the LOS for paved transportation systems to drop below "C" on city maintained roadways.

To prevent degradation of the LOS, the city requires a traffic impact study on projects that have the potential to degrade the "C" LOS.

Where the capacity exists to serve the proposed development as shown by comparing existing and proposed levels of service, the project should be found in compliance with the transportation level of service.

If the project is found to degrade the LOS, Ludowici will work with the developer to resolve the matter in the most sensible manner.

Currently the roadway system is the most effective and efficient mode of travel to and from locations. The transportation system allows quick access to intra-Long County points of travel and quick access to inter-community travel throughout the county and adjoining counties. No special measures are needed other than what has been covered to insure an LOS of "C" or better.

A study is underway by CGRDC that is looking at a regional system of coordinated human resources transportation and rural public transportation in the 10-county coastal region. The study, which is being funded by GDOT and DHR, may lead to a coordinated regional system that would increase efficiencies and provide users more options for inter-county trips. Depending on the outcome of the study, Long County may have the option of participating in a regional program for coordinated and rural transit.

Water Supply and Treatment

Ludowici has a public water system. In 2005, 531 customers consumed on average 340,000 gallons per day.

The city encourages and supports clustering and infill development. Annexations of property may only occur when the provision of public water and wastewater services are feasible. According to the SDS, the county must approve all public infrastructure extensions into the county.

The City of Ludowici has the capacity to pump 350,000 gallons per day, but is permitted to pump 740,000. Based on a projected 20 year population of 1633, the usage will increase to 354,000 gallons per day assuming that the current industrial makeup doesn't change. The City of Ludowici's public water system will be operating at or near capacity in 2009. The city will not be able to meet future needs if the ability to pump water is not addressed in the near future. Ludowici is utilizing only 46 percent of its permitted capacity. An impact statement must accompany each new development to determine the impact on infrastructure and an impact fee ordinance should be established to assist the city in developing and maintaining their infrastructure.

Currently, a few citizens in the city do not have access to public water. According to the Public Works Superintendent, the city is continuing to develop its infrastructure so that all citizens will have access to public water.

The level of service for public water supply is adequate based on population projections and the current niche industries. The current industrial types are likely to continue throughout the next twenty-year planning period. The City of Ludowici must be cautious and plan accordingly with the availability of water.

Sewerage System and Wastewater Treatment

The City of Ludowici's municipal wastewater facility serves 531 customers. Of the total customers, 471 reside within the city limits, one resides in the county and the remaining 59 are commercial customers.

The minimum densities to make public sewage and wastewater treatment facilities feasible are normally higher than what is needed to justify a public water system. Densities of 2,500 to 5,000 persons per square mile are normally required; that is, average lot-size of no more than ½ acre, and gross densities of a least two dwelling units per acre. At densities of fewer that a thousand persons per square mile, public sewage is rarely justified. Of course, public sewage treatment may be justified at lower densities to prevent a health hazard.

The average lot size in the City of Ludowici is 1.30 acres. The LOS for the City of Ludowici is 500 people per square mile. The LOS is a minimum. The City of Ludowici encourages clustering and infill development. Annexations only occur where it is feasible to provide public sewage and wastewater services. According to the SDS, the City of Ludowici cannot extend sewage and wastewater treatment services into the county without permission.

The City of Ludowici sewage and wastewater treatment facility has been permitted for an average daily discharge of 240,000 gallons. The current daily discharge rate is 160,000 gallons.

Based on a projected 20-year projected population of 1633 and if the current industrial makeup does not change, Ludowici will be able to meet all future needs.

As mentioned above the LOS for the city is adequate. Based on population projections and the current niche industries, assuming that the current industrial types are likely to continue throughout the next twenty-year planning period, the City of Ludowici can meet its future needs.

Solid Waste

The City of Ludowici disposes of MSW at the Broadhurst Environmental Landfill, located in Wayne County, Georgia. The useful life of the landfill site is an estimated 30 years. An inert landfill is available for disposal of debris that can deteriorate over a period of years on Hill Street within the city limits of Ludowici. The useful life of the inert landfill is estimated at 10 years.

Available to the public is a service center that recycles white and metal goods. The City of Ludowici uses a private contractor to collect and dispose of MSW. The service is funded by a user fee included on the property tax bill and collected annually.

Public Safety

Ludowici currently has a LOS of 1 Patrol Officer per 1500 citizens. The city is served by at least one patrol officer 24 hrs a day. A supervisor is always present during peak hours to supervise the Patrol Officers and lend assistance if needed. The City of Ludowici has 1 Chief and 1 Investigator and 4 Patrol Officers and two reserve officers.

The Georgia State Patrol (GSP) and the Georgia Bureau of Investigation assists Ludowici's law enforcement officers. The GSP patrols state highways, investigates accidents on state highways and assists local law enforcement with emergencies.

The judiciary system is adequate for Ludowici.

According to the SDS, fire protection is the responsibility of Long County. The equipment available to the fire fighters is up-to-date and in good working order. A LOS has not been established for Long County.

Volunteers staff Long County's Emergency Management Agency and Red Cross. The level of protection given to the citizens of Ludowici is adequate. Ludowici is rural and resources are limited. Ludowici will continue to upgrade its public safety elements as resources allow.

Hospitals and Other Public Health Facilities

Hospitals in Liberty and Wayne counties are within a 30-minute drive of Ludowici.

Coastal Manor Nursing Home is the only long-term care and rehabilitation facility in Long County. No dentist or physicians are located in the City of Ludowici because of its close proximity to Hinesville and Jesup.

Taxpayers fund the Long County Health Department. Many personal health care programs exist that benefit the citizens of Long County. Many of these programs are population based.

Emergency Medical Services are managed by Long County and are adequate.

The Long County Senior Citizens Center provides services for the elderly population of both Long County and Ludowici. The center provides educational and instructional classes and delivers meals daily through the Home Delivered Meal program and serves meals at the center to the elderly. From July 2004 through February 2005, the center has served 7,921 meals. The

senior center has served 3,986 meals in house and delivered 3,935 meals. It is projected that the center will serve 11,881 total meals in 2005.

Currently, health care is adequate. As the population gets older and the demand for health services increase, it may be economically feasible for a medical group to establish a satellite office in the city.

Federal, state and local governments fund the majority of health care in the City of Ludowici. Public services are community based, and delivered in the least restrictive environment possible. Clients are able to find culturally competent medical care in neighboring cities and counties.

Long County public health care providers distribute educational materials and instructions on preventative measures. The public health care unit in the city is stable. The majority of health care in the city is publicly funded.

The quality of public health care is sustainable and progressive. Private health care systems are not available in Ludowici. The public health care facility's rigid structure allows for better coordination and integration because of the availability of information. Public health care providers in Long County transcend the organizational barriers and cooperate among themselves. The Long County Public Health system delivers services in a cost effective manner.

Ludowici is a rural community with adequate medical services. The level of service provided by the medical community is adequate taking into account that Ludowici is near Hinesville and Jesup.

Ludowici will continue to grow at a slow and steady pace. If demand for health care services can not be met by public institutions, then for-profit health care providers will fill the gap of health care needs not given by public health care providers. The fact that Ludowici is near regional medical centers means that quality health care will always be available to meet the needs of its citizens. The city and its health care providers will continue to ensure that services are provided in the most effective and efficient manner, thus, making quality health available.

Recreation

According to the SDS, Long County is responsible for providing recreation facilities and equipment for all citizens in Long County. The City of Ludowici has no recreational facilities.

For more information on Long County's Recreational Department, refer to the Long County Comprehensive Plan.

General Government Facilities

All government services provided by City of Ludowici including City Hall and the Courthouse are within walking distance from the outermost areas of their urban boundaries. To make effective and efficient use of its resources the City of Ludowici has adopted the idea of one-stop service centers as standard organizational procedure.

The current government facilities meet the needs of citizens. The services are also projected to meet future needs.

Educational Facilities

According to the SDS, Long County is responsible for providing education services and facilities. The City of Ludowici provides no educational services.

For more information on Long County's Education System, refer to the Long County Comprehensive Plan.

Libraries

According to the SDS, Long County and the City of Ludowici support the Long County Library. The library is located in Ludowici. The Planning and Evaluation Committee for the Georgia Public Library System has established standards called Georgia Public Library Standards (GPLS). The GPLS are essential tools for library evaluation and measurement. The GPLS ensures that the public library serves the local community.

The GPLS standards assess the performance and effectiveness of a library and assist in establishing service improvement goals. The Long County Library System has used this document as a guide for setting its own goals and standards and as a means of evaluation and measuring services. The methodologies used in the GPLS have been adapted for use in the Long County Library System.

The Long County Library System is unique because it is a two-tier system serving local residents. The Three Rivers Regional Library System supports the Long County Library System. The Three Rivers Book Mobile reaches the outermost areas of Long County. All citizens of Long County have access to reading materials. Long County and Three River Library System meets current needs and will meet the future needs of the citizens of Long County.

5.3 Goals and Implementation

Goal 1

Ensure the delivery of cost effective services that will match the future needs of the residents, businesses and industries of Ludowici.

Objective 1.1

Ensure that the development of infrastructure systems supports desired growth patterns

Policy 1.1.1

The city council will restrict development that is not supported by infrastructure

Policy 1.1.2

The city council will encourage cluster and infill development.

Policy 1.1.3

Impact statements will be required for subdivisions, new commercial and industrial developments to determine impact on infrastructure.

Policy 1.1.4

Annually review and inventory government services and facilities.

Objective 1.2

Encourage and support efforts to plan and coordinate the development of infrastructure and public facilities within the city and county.

Policy 1.2.1

Develop and support a joint planning commission with Long County.

Policy 1.2.2

Support and develop a joint review process to ensure compatibility, cooperation and the implementation of joint strategies.

Objective 1.3

Continue to support the Long County Public Library and ensure appropriate, cost effective facilities for arts and cultural activities as Ludowici continues to grow.

Policy 1.3.1

Increase the public funding of library facilities when possible to reflect increasing demands for services.

Policy 1.3.2

Establish a cultural arts committee to organize and promote local artisans, coordinate with the local media and explore fund raising alternatives.

Objective 1.4

Ensure excellence in public safety, public works and health services as Ludowici continues to grow.

Policy 1.4.1

Develop a joint public service training facility for the training of volunteer fire fighters, police, and EMS and support the cross training of public safety officers.

Policy 1.4.2

Develop a joint hazardous materials public safety team.

Policy 1.4.3

Develop a joint public education program that focuses on the benefits and services of the public safety departments.

Policy 1.4.4

Continue to upgrade all emergency services equipment when possible.

Policy 1.4.5

Address and prepare the community for 911.

Policy 1.4.6

Purchase, repair or replace equipment and property as required.

Policy 1.4.7

Maintain or construct new facilities to improve or meet current LOS.

Policy 1.4.8

Encourage Long County and the City of Ludowici to jointly develop public safety facilities.

Objective 1.5

Work with Long County in providing adequate cost effective parks and recreation areas for all citizens of Ludowici and Long County. Use the natural environment and existing resources to the maximum extent.

Policy 1.5.1

Study the possibility of developing a Subdivision Ordinance to allow the development of High Density Subdivisions that would require recreation space.

Policy 1.5.2

Assist Long County when possible to ensure that special needs groups (elderly, children, physically impaired, etc.) have available to them those amenities, services and a safe environment that will provide the maximum quality of life possible.

Goal 2

A safe, convenient and efficient motorized and non-motorized transportation system should be available for all residents of Ludowici.

Objective 2.1

Provide for safe and efficient transportation systems that support desired growth patterns.

Policy 2.1.1

Encourage developers to connect roadways where appropriate.

Policy 2.1.2

Encourage developers to provide sidewalks and bicycle facilities and connect to existing facilities.

Policy 2.1.3

Maintain the current Level of Service for transportation routes.

Policy 2.1.4

Develop and enforce standards for the construction and maintenance of transportation systems and drainage systems.

Policy 2.1.5

Continue to support drainage projects and paving of unpaved roads as funding is available.

Policy 2.1.6

Support rural public transportation systems.

Goal 3

Provide for an efficient, economical and environmentally sound solid waste disposal system.

Objective 3.1

Support and encourage the development of strategies to manage waste.

Policy 3.1.1

Develop a Joint Solid Comprehensive Solid Waste Management Plan.

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