

## PART

## Infrastructure Analysis

- **Overview:**

Infrastructural services at the site are minimal.

- **Transportation:** According to ARCHIVE Research:

Presently at the site, it is easiest to get around by car. A sports vehicle with 4-wheel drive is preferable although many locals will take motociclettes to and from town.



Picture of the road to Bois L'Etat - at a point of inundation.



Route St. Marc vers Grand Fond

- **Access Points:** According to FEBS and ARCHIVE Research:

Presently access is by way of a single lane dirt and gravel road which needs to be graded to transport construction materials. The entrance to Bois L'Etat is located on the Northwest corner and is accessed from Route St. Marc vers Grand Fond.

In general it is important to have well identified access points so that construction materials can be transported to and from the site. It is also important in the future for residents to be able to travel to and from town for integration with the St. Marc community and for accessing supplies. Better transport allows for easier access to health care and reduced air pollution. In Morocco and Tanzania, improved rural roads are associated with substantial increase in health care access. 11.5% of Africans report the unavailability or high cost of transport is the major barrier to obtaining health care. 73% of Jamaican women report mobility is a problem in accessing pre-natal care.

- **Supplies:**

General supplies may include: food, fuel for cooking (charcoal, wood), hygienic supplies (toilet paper, sanitizer, soap, etc), matches, medical supplies, water, and clothing items.

None of these supplies are accessible from the site, apart from food items grown locally, and will need to be retrieved from the St. Marc commune. This will be accessed by way of car or preferably a bus system that can be implemented after residency.

- **Data Communication:** According to FEBS:

Currently there is no telephone service at the site. People in general use cell phones to communicate, however in some spots of HSM (Haute de St. Marc) there is no signal to receive cell calls.

There is currently no access for electricity in Haute-de-St. Marc, therefore no TV or computers are able to be used at the site. There are however a few radio stations available in the area. And since radios run

## ARCHITECTURAL & CONSTRUCTION RESEARCH | LOCAL CONSTRUCTION

- Data Communication:** According to FEBS:  
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- Sanitation:** According to FEBS:  
 There are at this time no sanitation services accessible to the property. Some nearby houses have composting latrines. However, there is no such thing as a trash removal system going to Bois L'Etat. Therefore, residents of HSM (Haute de St. Marc) use composting as a means for disposing of garbage. Non-compostable materials such as plastic bottles are either reused by the family or left out in the open.
- Kitchen Fuel:** According to FEBS:  
 Homes with ovens and stoves use propane gas, yet few families have them. Even with these modern appliances, cooking over an open fire with charcoal is still the preferred cooking method. As a result St Marc's produces a significant amount of charcoal locally. It is more widely used than wood, which is obtained in more rural areas.

According to Wikipedia:

Charcoal briquettes are widely used for outdoor grilling and barbeques in backyards in many non-industrialized nations. Using charcoal potentially is a serious health problem when used indoors since carbon monoxide (CO) is a combustion product. It also contributes to outside air pollution.

- Electricity:** According to FEBS:  
 The site does not presently have electricity. It is suggested solar panels will be needed for electricity as the site is far from the main grid for the city.
- Plumbing:** According to FEBS:  
 The closest potable water source to the site is a river that is 1.5 km east. This is where the locals retrieve water. The site does not presently have potable water. Potable water access would require digging a well. It is estimated that 52 gallons of water is used per person per day.
- Context:**  
 There is a small school house about .5 km to the east of Bois L'Etat. There is also a church immediately across the street from Bois L'Etat. Many locals frequent church daily for prayer. A fish reservoir is available about .5 km east of Bois L'Etat as well. Bois L'Etat is located near many small farming dwellings where farmers mainly produce bananas, corn, manioc, and rice.



School house .5 km east of Bois L'Etat



Fish Reservoir, .5 km east of Bois L'Etat