



Designing The Hacienda Enclave

Established on 25 to 250 acres

Written by Tam Worth
c/o Christian Shepherd Ministry
139 West Lisbon Parkway
Deland, Florida 32720
harbourghost@protonmail.ch

Introduction

The basis for the Hacienda Enclave plan detailed in this paper is distilled from the Bio-Preserve proposal I wrote years ago called Embrión Divinicum. That master blueprint is set out on 4,300 acres though first conceived for only 80-acres nearly 50 years ago when communes were in vogue. Then it was a Micro-Farm with an infrastructure supporting a broadly planted natural farming concern. It expanded over the course of my life to become an Ecologically Responsible, Self-Contained, -Supporting & -Sustaining Agribusiness Model of grand proportions. The management commitment was aware of the added benefits delivered by a vibrant biological environment. Featuring a 2,600-acre Ultra-Modern Hardwood Timber Plantation, the embedded biological aspects create a Bio-Diverse Resource Habitat that is serviced by a Botanical Arboretum and Nursery. Even while we now redesign the Preserve onto a micro footprint, the habitat is still sheltered by the umbrella overstory encompassing this resource-rich Garden.

Beyond the central Hacienda with its courtyard, the surrounding grounds will hold numerous valuable resources, so be prepared to add these to your vision as you read.

I redesigning this project model nothing will be spared to insure Self-sufficiency, Sustainability, Security and Privacy. The central welcoming facility of the Hacienda Enclave is its headquarters for business and guests. It sports a fountain courtyard with a large arching and securable entrance that is part of a walled perimeter and with surrounding buildings and biological concerns.

The size and number of the buildings are a function of the plan's needs. When the business is entertaining guests or meetings, holding consultations or formal seminars, the Hacienda will utilize various accommodations surrounding the courtyard nested within a tropical Garden paradise.

Various technologies will be employed for their resources such as on site hydro driven power, lease space profit centers and infrastructure to support expansion. Among these are timber plantings, fruit and flower orchards, hydroponics and aquaponics, numerous private dwellings, health and healing facilities and much more.



Hacienda Enclave

The Redesigned Bio-Preserve
A Micro-Farm on 10 to 100 hectares

[1ac = 2.47ha]

Introduction

The need to combine business concerns with a private estate comes together because we are aging. That means one is less inclined to frequently head off into the big city for business matters. You may set up offices there but you live here on your private Hacienda. The internet supports this transition and the idea now is to complete the transition by providing security for the more vulnerable years of your life.

An Ancient Layout for Ultimate Security

The plan of my liking is the ancient walled Egyptian estate where the enclosure is more encompassing and contains many essential survival needs within the enclave. Outside the

walls on surrounding lands are less protected crops, other resources, needed structures and activity facilities. The inside can be protected 24/7; The outside not so much.

Throughout history across the ancient landscape this model was used because it was needed and it worked. Castles derived their designs from it. Times have changed but the need for a 'moat' of protection has now come back into vogue. Let's learn from the past and be prepared today. A walled perimeter suggests a solution to menacing conditions that we want to be prepared for.

Plus, modern electronics gives permission to an overall design function that was not possible a few decades ago. Effectively we can have extended range WI-FI, infrared cameras and drones with cameras, remotely controlled gates and doors, switches for irrigation and animal feeding, lighting to recognize movement throughout the grounds, hydroponics buildings that operate nearly attention free, structures that can easily move screens into place to keep birds away when fruiting is in season, automated lighting and coverings that protect plants from heavy rain storms, intense sun and drought, etc.

Where to Hacienda

Purpose, use and intent can be determined and the acreage generally fixed for the process of a formal search. That leads to a careful discovery of where suitable land might exist, its availability and the generally expected cost range. If we were to find an existing estate containing some elements we seek we would not need to build everything from scratch.

A Few Essentials

1. A municipality that leaves one alone or better still supports the project
2. Rich soil with existing vegetative conditions to continue to build healthy soil
3. Clean running water - ideally a spring or two and a steady stream within the site
4. Frequent rain
5. Unpolluted air - away from thoughtless polluters and cities
6. Refreshingly tepid to tropical daytime temperatures with cool nights
7. The ability to grow and purchase 'real' food needed for optimal health
8. Kind motivated people in the community who want to work with us
9. A family-based culture where people care for each other and with happy children
10. Varied elevations in terrain within the project site
11. Improved roadways around the area for ease of access
12. High-speed internet access for modern connectivity and online business needs
13. Pleasant sounds and abundant natural surroundings and wild animal life
14. Men and women cognizant of their place in and their responsibility as stewards of the 'environment' where they live
15. A reliable power grid to build the early phases if not for continued use
16. Accessible building materials and a labor force

Details of the Model

The Micro-Farm Hacienda is suitable for 10 to 100ha. This scaled back model is loosely inspired by the old Spanish Hacienda from western movies. That was where vine-covered stucco walls surrounded a complex of buildings on three sides of a courtyard with a dusty fountain or well in the middle, with an arched entrance for gun-toting compadres on horseback to ride in - think of 'Silverado' or 'The Alamo'. They tie up their horses on the hitching rails in front of the overhanging porches at the cantina and close the entrance gate made of 2 heavy double doors before the banditos come calling.

You know the Hacienda. The layout works and for good reason. It satisfies all the needs of those who live and work in a lawless setting. It is secure and it faces in on itself fostering a feeling of community, easy communication and immediate association. To get someone's attention across the way you just shout. Oh, but we now have cell phones.

Centered in the courtyard can be a large two-tier fountain pool to water horses, entertain the dogs and children and toss coins in for good luck. We don't ride in on horses any more so there are no hitching posts, but there are some railings and porches on all three sides under the overhanging second stories of the buildings. These extend in toward the courtyard to create generous shading that shelter all from the blistering sun and torrential rains. It is the tropics after all.

The courtyard can be paved for our modern transportation needs. One of the buildings can have rooftop living on the second story. Be creative. Be imaginative.

This small enclave model can accommodate a flexible family of users - some permanent and some temporary. The 3 two-story structures in a crescent layout can provide all the space needed to run a business with living quarters, guest rooms, a Wi-Fi office and a washroom for visitors and families who want to tarry for a while or those who run the Hacienda. Built on 10 acres to 100 or more, it is scalable to provide for a variety of needs.

The Buildings and Their Uses

In the early phase, first several of the small outlying guest homes can be built to house the core managers and owners who will oversee the construction. Once the utilities are buried and the bases of the service roads constructed the Hacienda construction can begin. As the central complex is enclosed and the interior of the primary house is ready, the owner can move into these quarters. The roads are paved as construction continues until the center complex is complete. This then houses permanent workers and visiting engineers along with the management team as the construction continues outside the main complex.

The first three building in the Hacienda come near to touching at their corners to the rear but allow walkways for thru-passage - breezeways - from the interior to the grounds out back. This horseshoe of buildings has rooms on the ground floor for specific uses with rooms on the second floor (if there is a second floor) mostly for living quarters.

Standing just inside the entry to the courtyard looking 'inward' you see the 2-tiered fountain surrounded by three buildings - one left, one beyond the fountain and one right. They are each equivalent to a 6-bedroom home.

Defining Top Priorities

Let's look at the requirements raised by urgency upon which this project must be built. I anticipate the increase of uncertain global and local conditions and my ideas respond with reinforcing planks hammered into the structure of the Hacienda plan.

1. Comprehensive Security
2. Unassailable Power on Site
3. Uninterruptible Water Supply
4. Reliable Internet Connectivity

Security is the primary requirement. The question is, can the Hacienda be secured at a reasonable cost to protect from the possible intrusion of the locals after a regional disaster event or a cataclysmic meltdown of global proportions~? The answer is, yes, but only if we have our own power, control our own water and have a reliable internet connection. We can't control the latter, but we can the former two elements.

One goal is internal security for the project site 24/7/365. The land outside the walled enclave can be protected little at night and better during the daylight hours. Security needs increase at night and I recommend a 16 channel DVR infrared camera system along with a canine sentinel corp. We now have drones for aerial surveillance around the grounds day and night. We may not need this to be fully functional at the time of construction.

I suggest the perimeter enclave walls be appointed with gates and gateways to allow for full unfettered access throughout. Again, we may not need these to be fitted with gates at the time of construction, but they need to be built and then stored at the ready so installation can be done quickly when urgency arrives. As a time of uncertainty as real danger emerges, this readiness goes to survivability and you will sleep better knowing it is standing by.

The fences and walls can be made from various materials such as concrete block, wood, metal and natural plants forming hedges and organic barriers. These and many other forms of innocent appearing shielding can arrest the ingress of the unwanted. They will not be used in ways to draw attention or affront the sensibilities of the community but appear esthetic while remaining strategic.

Water Management

A careful overall water management plan serves the Micro-Farm's many needs through careful and balanced distribution. This brings to bear many factors including the collection and storage of rainfall. To start, rain water is gathered all-round the Hacienda from the gutters that ring the roof eaves; diverted into large cisterns for irrigation and other needs of the compound. This reduces the demand on and backs up the potable water resources.

Recycling

Around the world, recycling is poorly embraced because of a lack of true stewardship. Our land and oceans are being choked with garbage. This is wholly unnecessary. Recycling is highly valuable including nearly all food and plant material which is composted for use on the grounds. We must commit to a 100% recycling wherever possible, including most waste

and life byproducts. This translates into a full blown composting enterprise that can generate another cash flow. Because of our year-round food production capacity, all compostable materials will be identified and used for different projects each resulting in unique products. A more comprehensive discussion of this includes the rabbit-redworm synergy which I developed as the 3X-Gold Standard Compost and Empire Builder Soil. This exceptional business can be investigated at a more appropriate time.

Health

You can control what you eat, if you understand addictions and have great discipline. You can also grow some or much of your food organically if the opportunity is afforded. The Hacienda intends to do just that. And to insure our health a healing center can be outfitted with the most advanced technologies from around the globe to treat our conditions organically and naturally to the extent possible - on site.

Final Summary

The physical infrastructure protects you and those who live there as it serves the business concerns. It is thoughtfully intended to accommodate future expansion plans.

The grounds of this intimate Hacienda Enclave are potently adorned by planting rich natural foods, flowers, timber and various living plants we would want in a Garden. We then simply manage and harvest them while living within this secure biological habitat. Here things of value will be produced and in turn they will shield us from the outside insults of the eye of Sauron.

This peaceful Garden will provide work, a sentient place to live and jobs for those who tend to its needs and the means to sustain it. The commitment is to family as the fundamental unit of sustainability. Those who manage the enclave will oversee the production of many valuable resources that will support self-sufficiency.

This translates into sustainability of the enclave, supports a healthy environment and promotes the wellbeing of the businesses and families outside the enclave that become interdependent.

Also, our own true health will be derived from the diverse relationships created. The ultimate result can be a harmonious interdependent setting where the Laws that govern all life will prevail and find favor in the hearts of those who associate with us in the Hacienda.