

Together We Can

Business Plan



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Introduction

Imagine a plant that grows 1 ft per week... and 20 feet tall in just one growing season... a plant whose per acre biomass yield is 3 to 4 times that of trees, enough biomass for 50 acres to feed a bio-mass power plant for a year... a plant that sequesters 8 times more CO₂ per acre than evergreen trees... a plant that stores water like a camel and does not need to be irrigated, enabling it to grow on poor rural farms, even in arid climates...a plant that has a high protein content (up to 34%) whose leaves can be eaten in as little as 10 days after planting, and can provide 80 servings per plant per growing season...a plant whose stalk can be used for firewood, one acre producing enough firewood to sustain 4 families for a year... a plant whose seed can be ground into delicious nutrient rich gluten-free flour, ½ pound of flour being enough to make 20 to 30 pan-sized breakfast pancakes ... a plant that yields 200 seeds per specimen in poor soil conditions, and over 11,000 seeds per specimen when farmed optimally... a plant that can have 2 growing seasons per year...a plant that provides 4 separate harvests per growing season: 1) leaves & stems, 2) bast fibers, 3) inner core, 4) seeds... each with multiple commercial uses...imagine the development of a rural middle class that produces their own food, housing, and electricity, thanks to this plant.

The name of this “super” plant is **kenaf**, but not just any variety of kenaf. This particular variety is called Whitten Kenaf. It was developed by the Mississippi Agricultural and Forestry Experiment Station and released for general use in 2005. This variety is in the public domain and has already been introduced into Haiti... in 2009 just 30 lbs of kenaf seed kept a village of 2,000 people from starving. Because of its hearty nature, kenaf can be used to turn “unproductive” land into highly productive land, using minimal resources and if necessary, hand tools only. This plant is a grossly underutilized asset and is key for the poorest of the poor to unlock the bounty that the earth wants to provide.

Vision Statement

Together we can end poverty by removing the feeling of hopelessness and replacing it with hope and direction - achieved by training - where the "poor" become productive and self-sufficient.

Mission Statement

Together we can enable families to lift themselves out of poverty by teaching them a curriculum of farming technology to grow kenaf, which would supply food, agricultural based products and jobs, and teach how to build sustainable communities globally.

Executive Summary

Funding Request

“Together We Can” is a Panamanian Foundation seeking 3 phases of \$50 million in funding per phase (for a total of \$150 million) for a multi-stage humanitarian project aimed at solving world hunger, poverty, and global warming. Each stage can properly be viewed as a separate project. When funding is requested for any stage, that request will have its own business plan. This funding request is for Stage 1 only. Each stage by itself will have a significant impact on world hunger, poverty, and global warming.

Stage 1 lays the foundation, and the 3 Phases of Stage 1 consist of our entry into different groups of countries. Our target countries primarily come from the list of the 22 developing nations designated by the UN as being in a protracted food crisis ([link](#)). Stage 1 encompasses the Kenaf Stove and growing kenaf as a smart solution to hunger, deforestation, soil improvement and sustainable farming. Our \$50 million funding request for Stage 1 Phase 1 is just to get the ball rolling. Due to global need to solve global warming, deforestation, and create sustainable farming communities, we expect the demand for our Kenaf Stoves, technology, and kenaf farming equipment to be overwhelming. We therefore project an eventual need for creating a micro-loan fund in excess of \$10 billion dollars, or creating a revolving loan program that can reach a comparable footprint, functioning as a Kenaf Stove Perpetual Fund.

Stage 2 centers around de-urbanization by establishing a thriving village economy using kenaf related technologies and products. These include commercial rabbit farming, tilapia production, vegetable production, electricity generation, paper or textile production, and housing construction, using kenaf as the feed material. With electricity generation comes access to the internet, online education, and online entrepreneurship. Electricity is key to wealth creation. Kenaf as feed for bio-mass power plants is key to electricity generation, by a rural village.

Stage 2 builds upon the foundation laid down by Stage 1, will have a similar multi-phase rollout, and will be much larger in funding requirements. As the village economies of our target countries improve, the people should be able to afford to make a smallish mortgage payment. These long term mortgages are so that people can afford to build their own self-sustaining “environmental house.” The shell of these houses is not pre-fabricated and then shipped, but rather is built on-site by the families themselves, under the guidance of a Building Team, using molds, cement powder, and locally grown kenaf. This creates cost efficiency by bringing the factory to the job site. There is no warehousing, no theft, and labor costs are minimized because you do it yourself. However, reinforcing steel and other components would have to be imported. Even so, the amount of wealth created could be in the trillions of dollars, since there is a staggering 500 million housing deficit right now. Our Environmental House methods provide the strongest house at a fraction of the cost, just \$5 per square foot, or \$5,000 to \$10,000 per house. Furthermore, each Environmental House requires $\frac{1}{2}$ acre of kenaf, which equals another 5 tons of CO₂ permanently removed from the atmosphere, per house!

Stage 3 focuses on urban re-development, using kenaf, recycled wood, and recycled concrete to build sturdy, inexpensive, hurricane proof and earthquake proof roads, multi-unit dwellings, and commercial buildings.

A comprehensive funding commitment is not required at this time. We are willing to accept \$50 million in funding for just the 1st phase of Stage 1, if necessary. Ideally, we would like to be approved for 3 installments of \$50 million to fund the 3 phases of Stage 1, for a total of \$150 million.

Brief Overview

Mankind is composed of families. If you help families, you help mankind. We have developed a curriculum that trains poor rural families how to become self-sufficient and even generate an economic surplus. Our curriculum includes growing kenaf, which would supply food, agricultural based products and jobs, and sequester CO₂. We teach how to build sustainable communities globally.

Rural families currently loose their youth to the lure of a better life in the industrialized cities, only to find squalor and no jobs. What would happen if the rural farmers were making a cash crop as well as growing food and producing building supplies that can change the way impoverished communities are living now? This would help to stabilize entire countries and alleviate stress on governments through the positive, productive programs that this project offers.

Hunger and poverty as we know it can be solved by introducing kenaf as a human and animal feed. Kenaf is a fast growing plant that grows up to 20 feet tall. It is in the hibiscus family and is currently grown mainly for its fiber to make burlap, paper and cloth. However, when the plant is less than 4 feet tall it is correct to think of kenaf as a vegetable. It has extremely high protein content – up to 34%. Enviro-inventor Bill Loftus has researched using kenaf as a chicken and rabbit feed and as a human consumption food – used in salads made from the leaves or boiling it to make greens.

Our goal is to empower non-profits and NGOs with this technology, since they share a similar philosophy where we need to “teach a man to fish.” Creating jobs that are easily taught is at the heart of Mr. Loftus’ inventing spirit. Each of his inventions is designed for developing nations that use hand tools only, or minimal machinery and infrastructure. Poverty has many complexities as to why it exists but the key to solving it is to get people working - at least let’s teach a man to be self-sufficient. We believe that poverty is really just an idea that an individual holds in place because he is unemployed. Hunger is something that results from poor soil conditions. Solve poor soil, and you have the opportunity now to solve hunger. Find a way to make people self- sufficient through their labor, and you have solved poverty.

Our first step is to establish a non-profit training center in Florida to train trainers from the target nations. Here we will train these trainers on every aspect of growing and harvesting kenaf and

its related products. By creating a world wide training center that is designed to train educators on kenaf technologies, we will be empowering these educators to take back to their homeland a technology to teach self-sufficiency to their fellow countrymen. In essence we will train the trainers on how to eliminate poverty and substandard living conditions. We then give them the tools to act on their training and implement the solutions. Our list of target nations consists mainly of the 22 nations identified by the UN as being in protracted chronic hunger.

We have identified 27 acres near Ocala, FL as the ideal location for the world wide training center. It will be designed to look and feel like a rural village. This "village", coupled with the finances for a management team, would introduce the kenaf benefits curriculum to NGOs and Ministers of Agriculture, Education and Housing in developing countries for worldwide exposure. A carefully chosen team of agronomists, engineers and architects, as well as environmental farmers who have been in contact for years, would join forces and create Kenaf Tech Training Center, which would showcase kenaf agricultural products and farming best practices for maximum yield. During the 1st year, we will be reaching out to diplomats and NGOs in our target countries and will be fully operational well before our second year. Our agricultural technologies will be free, available to anyone and published on the Internet.

By growing kenaf we create a variety of opportunities:

1. Kenaf, with its high protein content (up to 34%), is an excellent first choice for introduction to countries with special emphasis on countries facing pervasive chronic starvation. Kenaf can be eaten in as little as 10 days after planting. Kenaf stalks can be used for firewood - efficient for countries that must deforest because the "poor" need firewood. There are better ways of cooking – kenaf stalks, etc., than by burning firewood. Even so, 1.6 billion people wake up with the daily problem of finding the day's firewood for the evening meal.
2. This high yielding crop can be eaten raw or cooked. Feed kenaf pellets to rabbits and chickens to create a self-sustaining eco-community. The animal feed can also be sold for income.
3. Other benefits involve our global warming problem. Kenaf sequesters two tons of CO₂ for every dry ton of kenaf. An average of about ten tons of CO₂ gets removed from the atmosphere per acre of kenaf. The real key is not the kenaf, per se, but the bio-char. When this kenaf is used for cooking fuel, converted into bio-char, and mixed in with the soil, it has the double impact of permanently sequestering large amount of CO₂ and improving soil quality, so as to dramatically increase the crop yields and the income that results from sale of the excess produce.
4. Kenaf has many other uses: paper, fibers for clothing, reinforcing plastics and ethanol. There is an existing global market for kenaf for these uses. This can be another source of income for the growers. When inviting investment into the community for building commercial factories, two factors for attracting investment capital will have already been created:
 1. An established group of farmers who know how to grow kenaf.
 2. A stable environment with an educated work force that can be hired.

The process: When kenaf is grown and harvested correctly you get several yields. The first 2 or 3 cuttings are for animal feed or human consumption. As it grows up to 20 feet tall, the leaves

are continuously harvested as animal feed for chickens and rabbits. When it is fully grown, the farmer gets to sell the kenaf stalk for firewood or sell the fibers on the global market. When used for firewood, the bio-char created by our Kenaf Stove can be molded into charcoal briquettes and sold for income. Any excess bio-char can be used to improve soil conditions and sequester CO₂. Their real key is the bio-char, because bio-char as a fertilizer has been known to double plant growth.

Our initial efforts have been aimed at Haiti, while the research has been ongoing in Florida. We have been testing out the ideas, seeing how the people like the taste of it. We have strong relationships with well established NGOs in Haiti and have trained hundreds of people on growing kenaf. We have also introduced the Kenaf Stove to a very strong NGO and we are currently finalizing duties, responsibilities and strategies. This has all been accomplished just with personal savings and loans from friends and family.

We can measure the success of our project through many statistics: Number of downloads of educational materials, graduates, tons of CO₂ removed, acres of kenaf grown, chickens and rabbits produced, and the quantity of income generated by kenaf products.

The world wide training center and the Kenaf Stove are the beginning point. “Local” training centers in target countries and large scale kenaf production will also be established. As the world evolves into a green economy, kenaf will play a major role in transforming economies globally.

Our goal is to eradicate hunger and poverty. The tools are education, human ingenuity, and empowering the poor to provide for themselves. Kenaf is part of nature’s contribution towards this end. Kenaf can be used to generate multiple sources of food and multiple sources of income by even the poorest of the poor.

Management Synopsis

Together We Can is led by Rob Thompson, who has a Wharton MBA and 10 yrs experience in non-traditional investments, and Bill Loftus, an enviro-inventor who began working with kenaf back in 1995. The bios of the full management team can be found at the end of the business plan. With practically no money, our kenaf curriculum has been introduced into Haiti over the past 3 years and we have already trained 800 people there. Thus far all of their farming has been done using hand tools only. We have completed proof of concept and have completed our pilot model in Haiti. The concepts and technologies are ready to be scaled globally.

Our goal is to help each target nation reach a critical mass, a tipping point, and then let word of mouth and local organizations take it from there. As opposed to creating barriers to entry for our new technology, we actually encourage people to copy our ideas and implement them on their own, in a form of viral entrepreneurship. Our goal is rapid adoption of these new technologies. Once we prime the pump, the benefits will keep on flowing.

Strategic Rollout

Stage 1: Create a strong base to support global expansion

1. Phase 1

- a. Build a Worldwide Training Center in Florida
- b. Begin operations in each target nation
 - i. Methods
 - 1. Start with 26,000 SF pre-designed school + kenaf power plant
 - 2. Kenaf Stove & starter seed
 - 3. Provide customized farming equipment
 - 4. Begin soil improvement using bio-char
 - 5. Improve sanitation & fertilizer efforts using bio-char
 - c. Country #1: Haiti
 - d. Country #2: Ethiopia
 - e. Country #3: South Africa
 - f. Country #4: Mexico
 - g. Country #5: USA

2. Phase 2

- a. Country #6: India
- b. Country #7: Ivory Coast
- c. Country #8: Uganda
- d. Country #9: Zimbabwe
- e. Country #10: Guinea
- f. Country #11: Eritrea
- g. Country #12: Chad
- h. Country #13: Congo
- i. Country #14: Sudan
- j. Country #15: Kenya

3. Phase 3

- a. Country #16: Angola
- b. Country #17: Burundi
- c. Country #18: Central African Republic
- d. Country #19: Sierra Leone
- e. Country #20: North Korea
- f. Country #21: Iraq
- g. Country #22: Tajikistan
- h. Country #23: Afghanistan
- i. Country #24: Liberia
- j. Country #25: Somalia

Stage 2: (De-urbanization) Build up rural middle class villages, taking unemployment out of the cities and have them move back to self-sustaining rural villages.

1. Build Environmental Houses using kenaf core
2. Use seeds from Stage I to plant exponentially more acreage and engage in reforestation
3. Use Stage 1's kenaf crops to create animal feed for commercial rabbit production and commercial tilapia production in rural villages
4. Begin village based bio-mass electricity production

Stage 3 : Urban Re-development

1. Use the recycled cement from all the fallen buildings in Port Au Prince Haiti to re-develop the city using stronger buildings with earth-quake resistant foundations.
2. Build earth quake resistant roads using kenaf cement
3. Build kenaf environmental houses that produce their own electricity and gas
4. Build multi-family units using kenaf environmental house concepts

Use of Funds

\$50 million	Phase 1
50 million	Phase 2
<u>50 million</u>	Phase 3
<u>\$150 million</u>	Total

The \$50 million for Phase 1 of Stage 1 will be used as follows:

\$22 million	Build Kenaf Tech Worldwide Training Center
3 million	Buy the intellectual property rights to the Kenaf Stove & farming equipment
5 million	Build National Training Center in Haiti and begin Kenaf Stove operations
5 million	Build National Training Center in Ethiopia and begin Kenaf Stove operations
5 million	Build National Training Center in South Africa and begin Kenaf Stove operations
5 million	Build National Training Center in Mexico and begin Kenaf Stove operations
<u>5 million</u>	Go to poorest cities in USA & turn vacant lots into “Backyard Farms” and community gardens
\$50 million	Total

Phase 2 and Phase 3 of Stage 1 each consist solely of \$5 million per country for 10 countries, for a total of \$50 million each.

The \$5 million per target nation will be used as follows:

\$ 1,000,000	Build 26,000 SF National Training Center + Power plant
\$ 800,000	20 sets of custom designed kenaf farming equipment costing \$40k per set
\$ 700,000	Kenaf seed for distribution with the Kenaf Stoves
<u>\$ 2,500,000</u>	Kenaf Stove materials and distribution for 105,000 stoves
\$ 5,000,000	Total

Introducing Whitten Kenaf

Kenaf is in the Hibiscus family, is cousin to Cotton and Okra, and is currently grown mainly in China and India for its high strength fibers. Nobody has focused on kenaf for food because the leaves did not taste good. However, a unique strand known as Whitten Kenaf was developed by the Mississippi Agricultural and Forestry Experiment Station and released for general use in 2005. These leaves taste quite good, a sort of lemony, Cajun taste. This variety of kenaf has wide cotton shaped leaves, can be used for food, has been grown for food in Haiti for 3 years where they love the taste and have developed their own recipes. The leaves, seeds, stalk and core are all separate harvests. The result is multiple uses and benefits ([video](#)).

1. **Fast Growth:** The kenaf plant is one of the fastest growing plants in the world, much faster than local weeds, so it requires minimal soil preparation and is easy to plant and maintain. Because the soil does not have to be tilled, maximum microorganism density is maintained and chemical fertilizers are not needed ([video](#)). Kenaf is an extremely efficient plant that uses minimal resources, with exceptional output. Kenaf plants grow up to 20 feet tall. One acre can produce as much as 20 tons of biomass in 6 months.
2. **Low Water Usage:** The stalk and roots have the ability to store water like a camel, so the plant performs extremely well, even in arid/drought conditions where most other plants fail. When planted before rainy season, no follow-up watering is needed. This absolves the need for expensive irrigation and water rights issues.
3. **Leaves Feed Humans:** Whitten Kenaf leaves are delicious and high in protein, up to 34%. It is regularly eaten in Haiti in soups, salads, boiled like spinach or added to rice. Kenaf can be eaten within 10 days of planting, when just 18 inches tall, and the leaves and stems can be continually harvested from that point forward. Each planted seed has the potential of creating 80 servings of edible food. Therefore, it can be used as a high protein starvation aversion crop. In fact, 2,000 people in Mirebalais, Haiti used kenaf to keep from starving in 2009 (see **Appendix B**). In Haiti, several kenaf leaf recipes have been developed.
4. **Seeds Feed Humans:** Kenaf seeds are rich in polyunsaturated fats, for a healthy diet, and can be ground into wonderful gluten-free flour for baking. In Mirebalais, Haiti they use kenaf flour for several recipes. $\frac{1}{2}$ pound of kenaf flour can make 20 to 30 pan sized breakfast pancakes.
5. **Money Crop:** Kenaf seeds are sold by the pound, which consists of about 20,000 seeds. 1 pound of kenaf seed currently costs \$4.00 USD. In poor soil conditions, 1 kenaf plant produces about 200 seeds. 10 acres of poor soil can grow 10,000 lbs of kenaf seed per growing season, representing \$40,000 USD of income. Florida research farmer Harry Long, in cooperation Mr. Loftus, came up with an organic formula where they yielded 11,382 seeds per plant !! It takes about 1 year from planting time before local farmers

can harvest and sell the seeds as a money crop. They can sell the stalks as firewood at that time, too.

6. **Animal Feed:** Leaves can be dried and turned into different sized pellets as high protein feed for rabbits, fish, chickens, and goats. Rabbit meat is really wonderful for you, being lower in fats and cholesterol and higher in protein than beef. Commercial grade rabbit farming and fish farming (tilapia) can be sustained with kenaf pellets. (The US currently imports \$750M of tilapia per year from China.) A “backyard farming” method is also being perfected for small scale production of rabbits, fish, chickens, and goats, on small plots of land using home grown kenaf pellets, virtually eliminating feed costs. This provides meat, fish, poultry, eggs, and dairy products for family consumption and for sale/export. This could be a self sustaining source of food and income for the poorest of the poor. They can make \$25 per week growing and picking their own kenaf for animal feed, starting within 2 months of planting the seed. This doesn’t even take into consideration the income they can receive from selling their livestock.
7. **Cooking Fuel:** The kenaf stalk has a heat value comparable to burning pine. A low cost, safe, smokeless Kenaf Stove has been designed for high efficiency cooking and bio-char (a form of charcoal) production. The Kenaf Stove burns kenaf or wood in an oxygen deprived environment, resulting in a much cleaner, no smoke fire where the fuel lasts MUCH longer. 4 families can have a year’s supply of fuel from a football field size of planted kenaf. When the air supply to the stove is shut off, bio-char is created. Making bio-char from kenaf and putting it into the soil as a soil amendment replenishes the soil and functions as a fertilizer and a soil stabilizer. This recapturing of waste lands can halt deforestation and desertification as people use kenaf instead of collecting wood for cooking. Any bio-char not used as fertilizer can be molded into charcoal briquettes. The Kenaf Stove can also use grass, waste paper, etc. to make bio-char which is then made into charcoal briquettes. Families can then sell the charcoal for income.



Kenaf Stove in cooking mode

8. **Carbon Sequestration:** One acre of kenaf can sequester 8 times as much carbon as an acre of evergreen trees. One acre of kenaf absorbs approximately 10 to 20 tons of CO₂ during photosynthesis. When used as cooking fuel on the Kenaf Stove, an additional 5 tons of bio-char is made. When put into the earth, this bio-char permanently stores the carbon in a beneficial way, in the ground. Kenaf is carbon negative, when you put the bio-char into the soil. If we can change from coal to kenaf for making power, we can

sequester enough CO₂ per year to completely solve the anthropogenic effect on climate change, impacting global warming ([link](#)).

9. **Electricity Generation:** Inventor C. Morrison has developed a biomass power plant that can use kenaf biomass to create a hydrogen/carbon-monoxide gas called syngas. These gasses are sufficient to run an electrical generator. One power plant can service an entire rural village. The biomass yield for an acre of kenaf is 3 to 4 times higher than for trees. 50 acres of kenaf can fuel 1 power plant, perpetually. This system is self-contained and poses no air quality, water quality, soil degradation, odor, or noise issues. There are no unique construction or installation requirements. It is as simple to operate as any household appliance and is small enough to fit on a trailer (see picture) or be mounted in a small building. The electricity not used by the rural village can be sold to the electrical power grid as an additional source of income. Imagine a constant supply of electricity being supplied to urban centers by rural villages, this in nations plagued by regular brownouts and blackouts. The only by-product from gasification is a sellable bio-char ash that can be used as a soil amendment for growers.



10. **Fertilizer:** An inexpensive organic fertilizer that can be made locally, using bio-char, is being developed. Bio-char acts as a home for microbial activity. This can be used to enhance soil quality even in the poorest of soils, without using dangerous and expensive chemical fertilizers ([link](#)). Bio-char as a fertilizer has been known to double plant growth. This will increase the yields and profitability per square meter of the kenaf plants and other fruits and vegetables grown in subsequent years. This will lead to a virtuous cycle of increasing economic prosperity from year to year, using land resources currently viewed as “unproductive.”

11. **Sanitation:** Kenaf bio-char can even be used in treating human bodily waste to convert the nitrogen into productive forms, turning a waste product into a resource. This would improve sanitary conditions and would have been useful during the recent Cholera outbreak in Haiti. 5 gallon buckets can be used as toilets and when combined with bio-char, within 6 months the poo and urine can be safely used as fertilizer. If 2 billion people were to use these toilets, then 2 billion pounds of fertilizer would be generated every day. Over time we could even recapture the deserts.

12. **Textiles:** The bast (thin outer bark) of the kenaf plant is a high strength fiber used to make burlap bags, plastics, industrial and commercial fabrics, cordage, rope and twine.
13. **Paper:** Kenaf paper has superior fiber content compared to wood-based paper products, and it takes far less time to grow kenaf compared to trees.
14. **Building Materials:** The fibrous outer core of plant stems can be used to make composites, polymers, binders, biodegradable plastic, injection molded panels, engineered wood panels, substitute for carbon, glass, other mineral fibers, fibrous reinforcement of plaster, cement, and wall boards.
15. **Construction:** The Styrofoam-like inner core of the kenaf plant can be used for animal bedding, kitty litter, municipal wastewater treatment, and for oil spill cleanup on land or at sea. In conjunction with recycled wood and recycled concrete, the kenaf core can also be used to make a light weight yet very strong cement block that has great insulation properties and is virtually fireproof. These blocks can be used to build single family homes and multi-story buildings, without using power tools. A self-sustaining environmental home has been designed using kenaf and other technologies, at a cost between \$5,000 and \$10,000 (depending on conditions, sewage and electrical requirements and sizes) per house. These homes will provide for clean water, housing, electricity, and sanitation. Intended as a developing nation starter home, construction is so simple that kids can assemble a house in 1 day ([video](#)), and a family can easily add-on additional rooms and rent them out as a source of extra income. This makes it possible for single mothers to become financially independent without having to work outside the home. The societal implications of this are staggering.
16. **De-urbanization:** This is a side effect from effectively leveraging kenaf as a way to provide food, shelter, and a living wage, in a rural setting. People living in the city slums can move back to their rural origins and actually provide for themselves, sustainably.

Stage 1

Laying the Foundation: The Kenaf Stove, Bio-Char, & Customized Farming Equipment

Hunger and deforestation go hand in hand. It is a vicious cycle where the poor tear down the forests, day by day, in search of firewood or through the purchase of locally produced wood-based charcoal. The side effect is increasingly poorer soil conditions. This vicious cycle ends in eventual desertification. If you take a look at Haiti from a satellite, you will notice that the land already looks brown and barren, compared to the lush greenness of neighboring Dominican Republic ([link](#)). Our Stage I consists of transforming this vicious cycle into a virtuous cycle, by introducing the Kenaf Stove and kenaf seeds to target nations. The key to reversing global warming and deforestation is actually quite simple... STOP USING TREES FOR FIREWOOD (2 billion people)... grow kenaf for firewood and making bio-char instead. The problems of the 22 nations that are facing starvation and are also depleting their natural resources are solved by introducing kenaf for firewood and food and the inexpensive Kenaf Stove. It is designed to burn kenaf without any smoke and also burns grass, cardboard, and twigs. This stove has a different design because it turns what would normally be useless ash into useful bio-char, which can be molded into charcoal briquettes or used as fertilizer to improve soil quality.

The stove is the beginning point upon which the other measures are built. The stove creates bio-char. Bio-char leads to better soils, which leads to doubling the yield and producing more food. In addition, within 1 year, kenaf growers can sell the leaves as animal feed, sell stalks for firewood, and sell the seeds. The stove and the seed will be the key not only to self-sustaining food production, but to sustainable economic prosperity as well.

The stove can burn any organic material without heavy smoke. 2 million deaths a year are attributed to cooking with firewood. In the beginning, before the kenaf is harvested (4 to 6 months) anything organic can be used in the stove – even grass or cardboard can be made into charcoal briquettes. Making charcoal from kenaf and agricultural waste, and not from trees, will be a new home based industry that just might slow down global warming. Think of charcoal as comparable to how we have become accustomed to electricity. The developing country people need charcoal to cook so they can eat.

The kenaf concrete is a fire resistant, insulating concrete. It lowers the cost of the stove and makes it much less expensive than other stoves. It increases cooking efficiency as the heat gets entirely directed upwards to the pot whereas other stoves made from steel radiantly waste heat from the sides of the stove. In addition, the Kenaf Stove is made from kenaf concrete, which is insulated concrete, making it safer because the outside of the stove does not get hot. There are other differences that make the Kenaf Stove more functional to the user. This stove has legs so cooking is accomplished without squatting like most of the other stoves.



Kenaf Stove w/ tabletop, displaying bio-char on L and molded charcoal briquettes on R. Sticks and cooking pot are used to cut- off air flow and induce bio-char production.

combines with the flammable gasses. We compare it to burning the same wood twice. When the family's meal is finished cooking, the air supply to the stove is shut off by shoving sticks into the air intake holes and placing a cooking pot on top, as seen in the picture above. This method then creates bio-char from whatever is left in the fuel chamber.

1 lb of kenaf seed can grow enough stalks to keep a Kenaf Stove fueled for an entire year, depending on the soil quality and how closely you space the plants. This amount of seed can be planted and harvested by hand. As the plant grows, the family can regularly be pulling off the leaves and stems for human food and for creating animal feed. The animal feed can be used to run a back-yard farm, using synergistic rabbit farming and tilapia farming techniques. Animal feed is the main expense for farmers. A continually growing storage of animal feed will be the real wealth of the farmer, as he can envision 1,000 lbs of feed = feed for so many animals. The backyard farm will be discussed in more detail later.

Our goal is to not to dis-empower people by giving them a hand-out, but rather to empower them by giving them a hand-up. This hand-up will consist of a Kenaf Stove and kenaf seed. They only need 1 year's worth of seed because the next year they can harvest their own seed. The total cost for the stove and seed will be \$36, spread out into 12 monthly payments of \$3 per month. They will be able to pay back this loan, because in most developing countries, the monthly costs of charcoal are approximately 30% to 40% of their income, about \$0.60 cents a day in Haiti. By using the Kenaf Stove, instead of buying charcoal, they can use the bio-char to mold charcoal briquettes that they can then sell to their neighbors as a source of income. The

A lightweight kenaf concrete tabletop attaches to the stove making food preparation and eating practical. NGOs are taught to instruct villagers how to build roofs over the stove and table area using local materials. This structure allows for cooking in the rain and allows for cooking fuel to be dried. The heat from the stove dries the kenaf. There are no sparks from this stove.

When kenaf is burnt in an oxygen deprived environment, you get a much cleaner fire. Also, the fuel burns rather slowly when you use the kenaf stove, so the fuel lasts MUCH longer. Even so, the fire is hot enough for the gasses in the wood to get released and the resultant flame is very clean with no smoke.

The stove is designed into two chambers. One chamber is to hold the fuel and the other chamber contains regular air that

monthly payments received will be re-used to build more stoves, creating a revolving fund for limitless stove production and distribution within each country.

These stoves will be manufactured in local villages, in a basic “hand tools only” factory. This will create jobs and pay a living wage. The people we empower to run each factory will also collect the monthly payments and will also transport the locally made charcoal to the cities for sale.

For individuals with 5 acres or more, planting will be done using custom designed kenaf farming equipment. The package of farm equipment consists of converted riding lawnmowers that function as mini-tractors with chopper/grinder, pellet maker, and tiller/planter attachments. The planter doesn't just plant kenaf, but will plant anything. All of these multi-use attachments are run by the mini-tractor and make the machinery useful year round, not just during planting or harvest season. This package of mobile farm equipment has been custom designed to produce \$100,000 worth of equipment functionality at a cost of just \$25,000. Plus, it is simple enough that it can be repaired locally. The package of farm equipment is small enough to fit in the bed of a 4 wheel drive truck that can carry the equipment across unpaved road systems. This is intended to avoid the problems associated with transporting and maintaining conventional 1st world tractors and machinery. The custom designed kenaf farm equipment costs \$25,000 per package, plus \$15,000 if we need to provide the truck, for a total of \$40,000 per package. The truck can also be used to transport seed, stalk, bast fibers, and bio-char to the urban centers for sale. There will be no licensing required for the Kenaf Stove, because of its simple design and our desire for local entrepreneurs to create their own jobs by manufacturing and selling it. The farming equipment technology, however, will be licensed, in order to maintain quality control and safety standards. Royalties from the farm equipment will be paid to Kenaf Tech Training Center.

If we plant before and during the rainy season, then the total planting time is about 8 weeks. The customized farming equipment can plant 10 acres per day, for a total of around 500 acres per machine. Village based co-operative farms will be formed where the farmers own the business and their own land. The farmer co-ops will be formed by collective regional NGOs to receive the farm equipment with the truck and tractor on a lease basis. The regional NGOs in Haiti will be recruited, organized and administered by The Green Foundation, which is strong in administrative skills. In exchange for giving the starter seed to the co-op, the Kenaf Prosperity International branch in each nation will receive lease payments in the form of 50% of the seeds produced.

The reason why repayment is in the form of seeds is because there is currently a limit on the number of Whitten Kenaf seeds available worldwide. Even though Whitten Kenaf seed is public domain, currently only Kenaf Seed USA grows Whitten Kenaf for seed, and there are only 80,000 lbs of Whitten Kenaf seed available worldwide. However, Haiti has the ideal latitudinal location and daylight hours for growing Whitten Kenaf seed, which can then be distributed worldwide, making the growth rate exponential. Whitten Kenaf will be used for food production. Other strains of kenaf can be used for reforestation.

The regional co-ops will handle everything related to the equipment, scheduling, getting farmers to participate, and we would have a monthly fuel and maintenance budget that could be accessed by the NGOs. We will lease the farm equipment to the co-ops.

In the beginning, due to existing poor soil conditions, the kenaf plants will only produce between 200 and 500 seeds per plant. The starter plants will provide human food, animal feed, cooking fuel, bio-char, sewage treatment, and fertilizer. As the soil conditions and farming methods improve, productivity will grow closer to 11,000 seeds per plant. With these higher levels of production, the Stage 2 commercial rabbit and tilapia production, environmental housing, and electricity production can occur at rural villages. This will take the unemployed out of the cities and put them back in their rural communities, with means of producing income as a new breed of middle class. Poverty comes from people not having hope. Our goal is to harness people's ability to see a better future and give them the tools to achieve it, thus giving them hope.

Franklin D. Roosevelt is quoted as saying, "A nation that destroys its soils destroys itself." We believe that the opposite is also true. Therefore, Stage 1 sets the foundation by helping the nations currently in protracted food crises fix their own soil problems. Instead of trying to alleviate suffering by giving people what they need, our approach is to train people and create home-based agricultural jobs where people can create a self-sustaining living, where through their own efforts they are making it. Anything that man causes, man can fix. Haiti's problems can be solved by Haitians. The same goes for the rest of the developing nations.

Although we could be looked at as another "teach a man to fish" type group, we are really a "teach people how to make the fishing poles" type group. This requires training and our initial introduction to a country is to train the trainers. We strategically seek out NGOs and non-profits to train the NGOs trainers.

Laying the Foundation: Kenaf Tech Training Center

Our first step is to establish a non-profit training center in Florida to train representatives from the target nations. The training center teaches how to build a self-sustaining village economy. Here we will train teachers on every aspect of growing and harvesting kenaf and its related technologies. We will do our own kenaf planting and harvesting, backyard farming, rabbit raising, fish farming, and electricity generation, just like the rural villages will do in the target nations. By creating a world wide training center that is designed to train educators on kenaf technologies, we will be empowering these educators to take back to their homeland a technology to teach self-sufficiency to their fellow countrymen. In essence, we will train the trainers on how to eliminate poverty and substandard living conditions. We then give them the tools to act on their training and implement the solutions.

At the training center, the agricultural courses will include: Kenaf growing, Kenaf Stove manufacturing, Bio-char fertilizing, Sanitation, Cooking with kenaf, Making animal feed, Farm equipment rebuild and repair, Fish farming, Chicken coop building, Chicken raising, Rabbit raising, and FDA standards for operating a butchering processing facility. These courses will be taught to country and regional representatives, and to the general public who wish to attend the

training center. In addition to teaching the courses, we will be raising the breeding stock of rabbit and tilapia that will be used to initiate backyard farming in other countries on a massive scale.

The Training Center will also contain an R&D center. Initial projects include finishing the testing of the farm equipment, verifying the growth rates of kenaf-fed chickens and rabbits, and devising ways to rapidly improve soil conditions. A side by side test with conventionally fed chickens and rabbits will be compared to those raised on kenaf. We need to verify the amount of kenaf that needs to be grown to feed the chickens and rabbits.

The world wide training center will be located at Seely's Ark's processing plant on 27 acres in Ocala, Florida. It will be designed to look like a village. This "Village", coupled with the finances for a management team, would introduce the kenaf benefits curriculum to Ministers of Agriculture, Education and Housing in developing countries for worldwide exposure.

A carefully chosen team of agronomists, engineers and architects, as well as environmental farmers who have been in contact for years, will be brought together to create the Kenaf Tech Training Center, which will showcase kenaf agricultural products and farming best practices for maximum yield. During the 1st year, we will be outreach to diplomats worldwide and will be fully operational before our second year. Our agricultural technologies will be free, available to anyone and published on the Internet.

On the 27 acres are three football field sized retention ponds that were originally installed decades ago to handle the water waste from cleaning and butchering thousands of chickens and livestock. These ponds will not be utilized for waste water, but will be the future home of fish ponds. Tilapia is a vegetarian fish that could be raised on kenaf. Rabbit cages will be built on bridges over the ponds. Research will be conducted regarding feeding kenaf pellets and rabbit droppings to tilapia in commercial fish production.

During Stage 2, the training center will be used to teach Building Teams how to guide people in constructing Environmental Houses. Our system removes 5 tons of CO₂ per house built, due to the unique carbon sequestering properties of the kenaf plant, giving it the capacity to slow down global warming. With 500 MILLION homes needed in the world today we predict the only problem with delivering that many homes is having a competent work force to deliver them. Imagine 500 million homes being built by the very families that will live in them, and sequestering 5 tons of CO₂ per house!! Hence the need is for the Kenaf Tech Training Center to train people on how to build, on a massive scale. The importance of harnessing the power of kenaf is self evident for its importance in helping solve a problem that affects every person – climate change. Whatever the motivation for issuing housing contracts, we believe that potentially trillions of dollars will be spent and our system should get a great share of that – especially when our system creates jobs and eliminates hunger and global warming simultaneously. The Environmental House curriculum will be covered in more detail in the business plan for Stage 2.

Considering that many participants coming to the Training Center will be from United States organizations, it is appropriate to establish one price schedule for the Training Center's "trainers

in training" who are our guests from impoverished developing nations, and another price schedule for members of the general public who wish to become students.

Assuming that the facility is approved for student housing and assuming that we have a capacity of 200 participants and 40 staff living on campus, we can establish our beginning projections based on a 50% guest enrollment and 50% by the general public. It is the goal of this plan to have our guest's room and board at the Training Center be subsidized by the fees paid by the general public students.

Keeping in mind that Training Center's guests are educators from developing nations who are being trained to set up a duplicate training center in their country, their stay will be longer. They will first learn the new technologies, and then learn how to deliver the curriculum.

It is recommended that the Training Center bring in guests and general public students who can help build the buildings, to defray construction costs and to begin training. There are two houses on the property that can accommodate 10 to 20 students. These houses need renovation.

Participant housing consists of a shared room. Room size is predicted to be 12' x 24' with a shared bathroom. The weekly cost of housing per individual is \$100. This is reasonable when considering the daily rates of hotels and other housing options.

We use a ratio of seven participants to one staff. Hence, a 200-participant facility requires a staff of 30. In addition we estimate that 10 administrative staff will be needed to register new participants, give tours, promote to the general public, assist with grants, etc.

Staff accommodations are in houses of various sizes, to accommodate their families. Room and board is free to staff and considered part of their salary.

The school will contract with local farmers to supply the majority of food for the Training Center. It is predicted that the school will raise its own chickens, eggs and rabbits, as this is part of the curriculum. An additional 500 acres of farmland will be purchased to grow kenaf to supply the feed for the chickens and rabbits, as well as build up our Whitten Kenaf seed stock. It is predicted that Training Center participants will learn how to butcher livestock and prepare meals, as well as cook for the entire school and staff. This is to offset costs and to establish efficiency for when the Training Center guests return to their homeland and establish the local schools for training trainers locally.

We are predicting that all aspects of food preparation and kitchen staff work will be done by Training Center participants. Maintenance of the property, feeding our animals and farming will be done by both general public students and Training Center guests.

Weaknesses: the property requires rezoning; plus an innovative sewage and animal and solid waste treatment plant is presented. The innovative sewage treatment plant also generates electricity – these parts to the system have strong engineering to support its use.

Laying the Foundation: National Training Centers

One of the first items of business, when opening up a new country, is beginning construction of a local training center in that country. These National Training Centers will usually be associated with orphanages (as seen in **Appendix D**), for several reasons.

In many countries, the well established orphanages have sufficient acreage available to grow enough kenaf to fuel their own bio-mass power plant. By having the national training centers located in an orphanage, we will be training the older youth to be the leaders of tomorrow, while giving them immediate jobs and putting them at the forefront of the changes that will be impacting their countries over the next several years. The older youth will have jobs making stove parts for distribution to the local stove factories, and will be becoming trained as the Environmental House Building Teams for Stage 2. Aside from the land associated with the national training centers, no other land acquisitions will be necessary in the target nations, as the Together We Can Foundation, with its associated entities, will engage primarily in training and educating, not in direct farming. The partnering NGOs will train the local farmers who already own the land and will do the actual growing.

Educational Ramifications

As an ancillary yet crucial benefit to our model, because the National Training Centers will have a regular supply of electricity, we can get a satellite feed and some desktop computers up and running in these training centers. These will serve for business purposes and also as a way to plug them into the online video homeschooling curriculum already available in the USA. The virtual education can go from K-12, plus a select few undergraduate and graduate degrees. English language training will become part of their curriculum. Imagine an orphan in rural Haiti or Ethiopia getting a Masters Degree from a US university, without ever leaving his home town! As a regular supply of electricity becomes more widespread in local villages, so can the access to a 1st world education. This will be part of Stage 2. Here is a brief overview...

The secondary education will not come from some degree mill like DeVry or University of Phoenix, but from a legitimate accredited non-profit online university like Western Governors University, whose graduate degrees include nursing, healthcare management, IT, and MBAs ([link](#)). This will speed up the economic development of these target nations. English language training will be part of the K-12 curriculum at these schools, so that they can participate in these US based online education programs.

The local schools can also implement the experiential learning curriculum developed by Tim Draper, of Draper Fisher Jurveston (DFJ) fame ([link](#)). His BizWorld curriculum is designed to teach kids in grades 3 through 8 entrepreneurship, via making and selling friendship bracelets. His BizWiz curriculum teaches kids in grades 5 through 8 how the world of finance and investment works. His BizMovie teaches kids in grades 3 through 8 how to make online animated movies and actually sell tickets to their movies. Lastly, the online school can be used by the older kids for online entrepreneurship, using carefully designed internet marketing video tutorial courses developed by Mr. Thompson. If someone in the USA makes \$2,000 a month from internet marketing, it is no big deal, but if that person were located in Haiti or Ethiopia, that

would be a game changer. The best part is, the internet is non-geography specific. In addition, there are numerous open source software programs like OpenOffice and CamStudio that make the cost of doing business over the internet minimal. Plus, since established business schools are not teaching internet marketing to the next generation of business leaders, these youth in developing nations will have a decisive competitive advantage over their 1st world counterparts. These virtual schools can even be set up in the rural villages described in Stage 2.

Preventative Health Care Ramifications

Kenaf can be used to address preventative healthcare in the aspects of 1) reducing smoke inhalation from cooking fires, 2) innovative ways to use bio-char to improve sanitary conditions, and 3) nutrition.

In developing countries, one of the main causes of health problems is the inhalation of the smoke from the cooking fires. 2 million deaths a year are attributed to cooking with firewood. The Kenaf Stove is designed to be smokeless, therefore addressing the cause of this health issue, as opposed to addressing only the symptoms.

Another major cause of health problems in developing countries is lack of sanitation. The bio-char from the Kenaf Stove is the key to solving this problem. The droppings of all land animals go back into the earth as fertilizer, but humans pump their waste out into the ocean. Bio-char has the benefit of removing the foul odor from human waste. However, there is evidence that the bio-char can do much more and actually convert human waste into high powered fertilizer for use on land.

When Bio-char is used in compost toilets we predict a far reaching renaissance of agriculture. The tests for Bio-char Plus are ongoing and laboratory reports for fertilizer will be forthcoming. This toilet system is rather basic, but when 6 inches of bio-char is placed in a compost toilet bucket, the bio-char absorbs all the nutrients and there is no smell. This high Nitrogen fertilizer is vital to crop production. Another 5 gallon bucket with a seat is used for pooping. Here a scoop of bio-char is placed on top of the bowel movement. It takes much longer for the fertilizer to be made with poop as compared to urine. Urine takes about 2 weeks before it is safe to put in the field. Poop fertilizer with bio-char takes 6 months. Having a 5 gallon bucket with a toilet lid and handy bio-char is much better than the current practice of dumping human waste into the street gutters that line the road, as many developing nations continue to do. With this simple solution in place, the Cholera outbreak in Haiti could be contained very quickly.

A third major cause of health problems in developing nations is poor nutrition. When you are chronically hungry, the body cannot get the nutrients required to grow properly, let alone maintain a healthy immune system. Kenaf seed can be ground into flour by hand, using a simple manual grinding stone. The result is wonderful nutrient rich gluten-free flour that can be used for cooking and baking. You can make 20 to 30 pan sized pancakes with just ½ pound kenaf flour. The best part is that kenaf seed flour has so much nutrients in it that it helps the body feel full because it is satiated. As a result, the need to consume extra empty calories is lessened, resulting in weight loss. Incidentally, nutritionists are currently using this knowledge to develop a Kenaf Protein Bar as a way to fight malnourishment and obesity.

The Backyard Farm

The Backyard Farm system will be utilized at the Kenaf Tech Training Center, but will not be introduced into target nations until Stage 2. The technology behind our Backyard Farm concept is not new, as evidenced by the very successful Aquaponics System designed for use in 1st world nations ([link](#)). What is unique, however, is that our new Backyard Farm system is designed to work without electricity and to be constructed at developing nation costs, with an even greater volume of food output.

The Backyard Farm produces rabbit, tilapia, vegetables (grown on water – hydroponically) and two varieties of Algae - Spirulina and Duckweed.

Spirulina is a blue-green algae dubbed the “food of the future” because of its amazing ability to synthesize high-quality concentrated food. Spirulina is 65% to 71% complete protein, with all amino acids in perfect balance. In comparison, beef is only 22% protein. Spirulina also provides high concentrations of many other nutrients - amino acids, chelated minerals, pigmentations, rhamnose sugars (complex natural plant sugars), trace elements, enzymes - that are in easily assimilable forms. Spirulina is one of the cleanest, most naturally sterile foods found in nature and is regularly sold in Health Food stores. Duckweed, on the other hand, is the green stuff you see growing on ponds. The tilapia eat the duckweed.

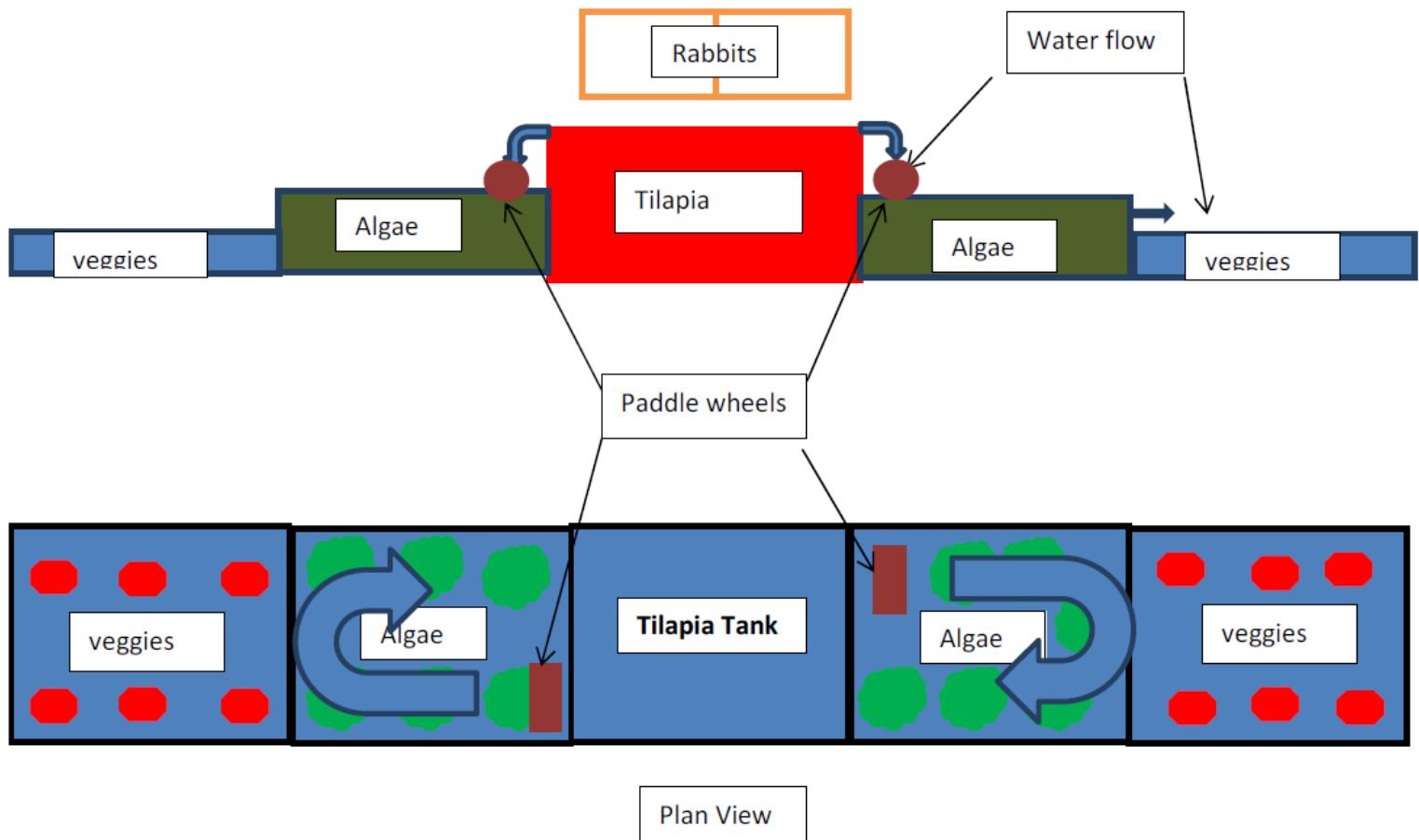
The farm works like this:

1. You feed the rabbits the kenaf pellets. The rabbit droppings fall into the tilapia tank. The droppings are nutrients that fertilize the water and create microbes that also feed the tilapia.
2. The tilapia poop is rich in nutrients that are also organic fertilizers, and this nutrient rich water goes downhill through a pipe to an “Algae Pond”. This pond is lower than the Tilapia Pond so the water flows freely from the Tilapia Pond to the Algae Pond. As the water comes out of the pipe from the Tilapia Pond it falls and is focused onto a water wheel with paddles. The paddles stir the water without power. This continual stirring motion circulates the water and it exposes the algae to sunlight so the algae will grow optimally. The algae we recommend is Spirulina. It is a very good human food and makes a superior fish food. The duckweed that grows is used only for fish food, to feed the tilapia.
3. The next pond is lower in elevation and has plants floating on a polystyrene raft. There are holes in the raft and special plant holders that keep the plants positioned on the raft, while exposing the roots to the water. This is a hydroponic garden. The result is a nutrient rich, highly productive organic vegetable garden.

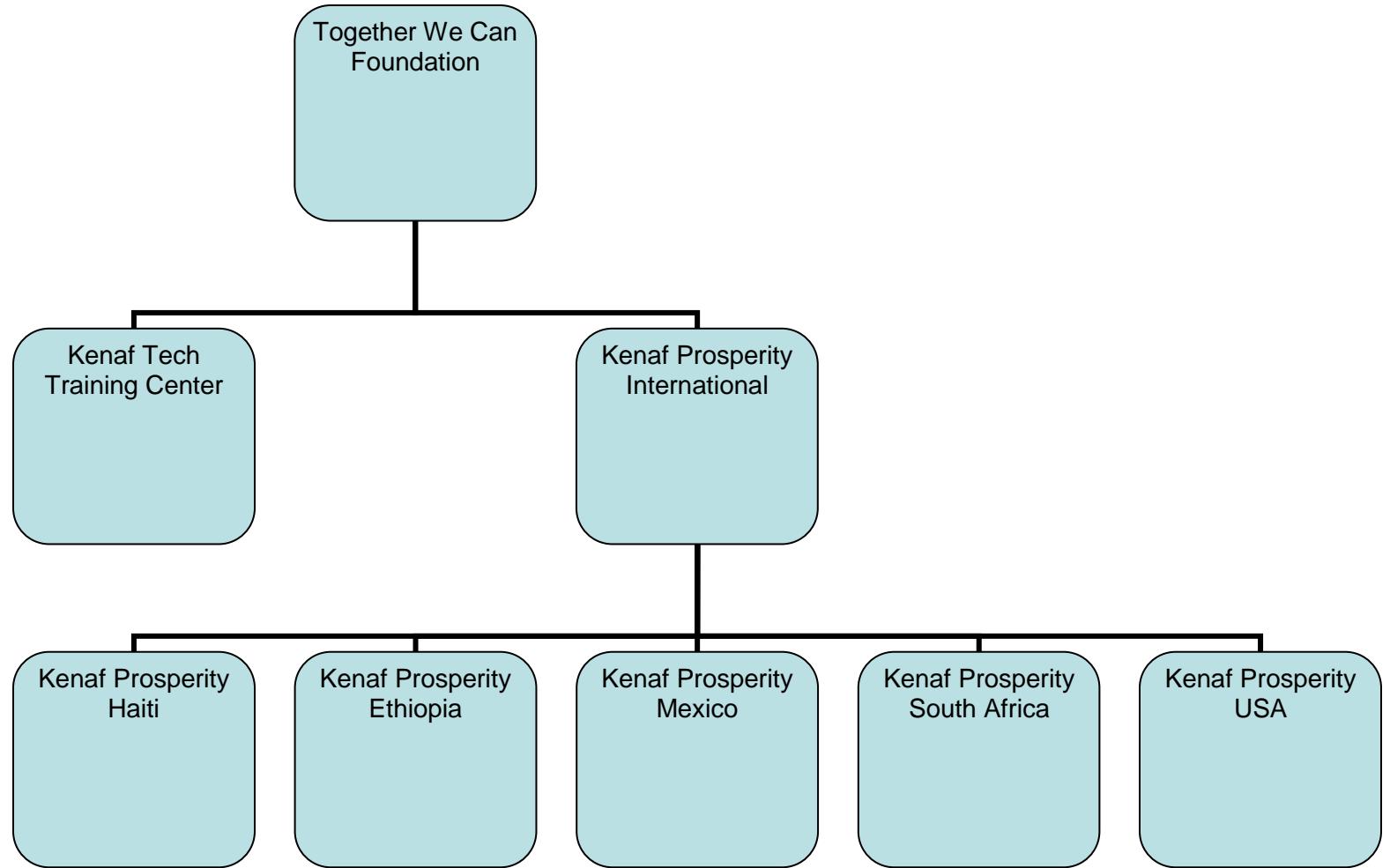
The system is powered by a static bicycle using compressed air to store energy and aerate the water, as opposed to using expensive solar panels. All that is needed is a couple of minutes of riding the “exercise bicycle” per day.

A sketch of the Backyard Farm is on the next page.

A sketch of the Backyard Farm



Organizational Chart



Management Team

Executive Bios

Rob Thompson (Managing Director of Together We Can Foundation) has a MBA from the Wharton School, majoring in Strategy and Development of Fast Growth Enterprises, with a concentration in Capital Allocation Decision Making. He also has a Masters Degree from the Lauder Institute of Management and International Studies, at the University of Pennsylvania, and is a member of American Mensa. His career includes 10 years of experience in private equity, oil and gas exploration, and commercial real estate investing. Mr. Thompson currently heads a Mastermind Group of people committed to dedicating their time, talents, and resources to spearheading humanitarian projects and philanthropic endeavors.

Bill Loftus (Managing Director of Together We Can Foundation and Headmaster of Kenaf Tech Training Center) is an environmental inventor. His career as a building contractor led him to design a building system that uses select plant materials with recycled material (or not) as a substitute aggregate for gravel and sand in making concrete. His first experience with kenaf dates back to 1995. He has been growing kenaf in Florida for 4 years now and has substantially finished his research and farming equipment inventions. You will see all throughout Mr. Loftus' creations where the teachings of Frank Lloyd Wright are embraced - form follows function and are one. Mr. Loftus will begin as Headmaster of Kenaf Tech Training Center and will turn the reigns over once operations are stabilized.

Kevin Thomas (CEO of Kenaf Prosperity International) recently retired as the Chairman and President of the Clayton County Democratic Party in Georgia. He is both well connected and very proficient at managing large projects with thousands of employees and volunteers.

Celina Pearson (COO of Kenaf Prosperity International) headed the Legal Center for Debt Resolution from 2001 to 2004, guiding the expansion of the company from 3 employees to 40 employees. Her management expertise allowed her to steer the company's explosive growth by devising specific training regimens for each new staff member. This allowed them to come up to speed quickly, supporting and meeting the rapidly expanding needs of each section of the company. Ms Pearson's forte is her understanding of the importance of training in doing any job, and the importance of knowing the basics of language, reading, simple arithmetic and mathematics to leading a successful life. She is able to manage large and small groups with her keen ability to analyze and maximize strengths and minimize weaknesses, to obtain an ideal scene as envisioned by its leadership.

Jean Paul Sanfacon (National Director- Haiti) is a French-Canadian builder who had a construction business in Quebec for 20 years, and is currently a building contractor in Iowa, having built 45 houses in the last 10 years. Mr. Sanfacon went to Haiti in January 2010 with a volunteer group and has since spent 5 months there. When he learned about Mr. Loftus' building system and stove, he saw right away that it was the perfect solution for Haiti, because of the low

cost and efficiency. Mr. Sanfacon will be at the forefront of getting the first Kenaf Stove manufacturing plants operational and best practices established, as well as laying the foundation for Environmental House construction that is part of Stage 2.

Dr. Carolle Jean-Murat, M.D., (School Director- Haiti) founded Health Through Communications Foundation in 1993 and Angels for Haiti Projects in 1999. She ran a successful medical practice in San Diego, California from 1982 to 2005. She is the founder of the *Dr. Carolle Wellness & Retreat Center for Women of San Diego*. In 1999, she teamed up with Dr. Charles Rene, another Haitian-born obstetrician and gynecologist, to provide educational programs in Haiti. Dr. Rene has been going to La Vallee de Jacmel in the south-eastern region of Haiti three times a year since 1986 with a team of educators and health-care providers to provide free medical care and educational programs. Dr. Carolle already has the land for the training center... she personally bought a mountain top and flattened it to make the soccer field.

Genet Kefetew (National Director- Ethiopia) is the Founder of Ethiopian Natural Fiber, has over 1,000 acres of fertile green land in Ethiopia, and wants to establish widespread kenaf production in Ethiopia for local use and export.

Chris Davis (National Director- South Africa) is the President of Quantum-ionics, Inc., an OEM company specializing in the creation, development and marketing of viable eco-technologies for industry. He has over thirty years of experience in business, marketing, advertising and international trade. He is active in the import and export of commodities and has deep contacts established in South Africa.

Dr. Hector M. Guevara (National Director- Mexico) has devoted 30 years to R&D in the field of renewable energy systems. Dr. Guevara has founded companies that have designed or produced many of the most notable solar, wind, and hydroelectric systems deployed throughout the world today. Dr. Guevara has received from the State University of New York's Department of Economic Development the highly regarded "Entrepreneur of The Year Award" and a citation from the American Society of Mechanical Engineers for his work in photovoltaic and renewable energy sources. Since installing the thermal solar system in the White House in 1979, Dr. Guevara has continued designing, developing, and deploying renewable energy systems throughout the world. Dr. Guevara holds a BBA, MBA, and a Ph.D. in Mechanical Engineering.

Rebecca Field, Ph.D. (Regional Director- USA) is an agent for global social transformation. Ms. Field founded an international educational non-profit corporation and was able to help Tibetan refugees in India and people in former Iron Curtain countries through health, environmental, and business education, aimed at enabling them to determine their own way in a new society. With the participation of her colleagues in Russia, Rebecca also offered classes to help young people learn how to avoid sex slavery. Through her non-profit she reached 50,000 people and empowered them to change their lives for the better. Now retired, she champions methods of societal metamorphosis, like growing and using kenaf and developing kenaf farms, especially for application in the United States.

Elsie Taylor (Regional Director- USA) has been a RN, FNP, PA-C, esthetician Primary Health care provider 18 years. Ms. Taylor started a clinic in Public Housing facilities in St Paul, MN.

She trained in Metabolic Typing Herbal Remedies and she reversed chronic diseases in patients with lifestyle changes and supplements. She worked as Medical Research Coordinator for a program treating children with obesity and other chronic illnesses related to obesity. Ms. Taylor would spearhead the Backyard Farming efforts in the United States and would also introduce Kenaf Protein Bars as an effective adjunct in weight loss support in USA.

David Ramsey (Construction Director at Kenaf Tech Training Center) Professional Engineer, Class A General Contractor, Professional Land Surveyor. As the Project Engineer concerned with land development, his duties consists of contacts with clients, land planning, construction cost estimates, boundary surveys, topographic surveys, income projections, feasibility reports, road drainage, sewer and water plants, sewage treatment plants, water wells and plants, water treatment plants, survey of all items during construction. Mr. Ramsey is intimately involved in planning the training center and the village community. He will also help set up the national training centers for Stage 2 and will do ground work for rolling out Environmental Houses to rural villages in Stage 2. Mr. Ramsey is passionate about finding innovative ways to set up new infrastructure and technologies in developing countries.

Sioxx Hart (Senior Administrator at Kenaf Tech Training Center) worked previously with Mr. Loftus and was excellent at organizing curriculum, executive duties, and human resources.

Beth & David Seely (Head Instructors at Kenaf Tech Training Center) are owners of Seely's Ark, the largest rabbit producer in the Southeastern United States. With over 20 years of experience, they have mastered every detail of commercial rabbit production. They have never had a callback, maintaining extremely high standards and professionalism. They are creating course materials for the world wide training center, including rabbit raising and FDA standards for operating a butchering processing facility.

Dick Kearly (Instructor at Kenaf Tech Training Center) is a commercial greenhouse grower in Hawthorne, FL. Mr. Kearly does millions of dollars of business per year. Mr. Kearly's specialty is in getting plants to grow faster and bigger.

Dr. Peter J. Rubec (Instructor of Commercial Fish Farming) is the Director of Research at Morning Star Fishermen, a non-profit in Dade City, FL that promotes aquaponics in third world countries to fight world hunger.

Jim Harris (Instructor of Farm Equipment Mechanics) is the owner of Harris Tractor in Ocala, FL. He will train out of country beginners to become master mechanics, with relation to the customized farm equipment.

Harry Long (Instructor of Kenaf Growing) is the farm researcher who worked with Mr. Loftus to develop the farming methods that yielded 11,382 seeds per plant.

Advisory Board

Dr. Eugene Columbus Mississippi State Agriculture Researcher, chief researcher for kenaf for biomass.

Dave Schneider Technical researcher with a degree in electronics and 6,000 hours of Industrial Process Controls hands on experience. Mr. Schneider has also done extensive work with Jatropha, a plant whose seeds make diesel fuel. Dave has worked closely with Mr. Loftus in his Kenaf research for many years.

Timote Georges Haitian Agronomist with 200 local farmers that have 5 to 10 acres each

Dr. Adiel Tel-Oren Nutritionist and Kenaf researcher in Israel

Keith Bradbury Heating & air conditioning engineer in Florida

Dr. Rick Harlow Veterinarian

Ben Scheffries Engineer

Strategic Partners

CODEHA, led by Godfroy “Gody” Boursiquot, has been impactful in Haiti for over 20 years. They have over 2,000 people in their group and they already have the vision. They are already teaching backyard farming for rabbits and tilapia, and they have an additional emphasis on stopping deforestation. They have their own land. They are already on board with using kenaf as their main solution. They are already growing a crop of Whitten Kenaf for seed generation.

GRODYSIH (Groupe Dynamique pour la Survie d’Haiti), led by Claude Reginald Jean, is a federation of organizations all around Haiti. Mr. Jean will be the on the ground manager setting up the local manufacturing plants for the Kenaf Stoves in Haiti, and will oversee the collection of the monthly payments. He estimates his organization has the capacity to manufacture and sell 1 million stoves in Haiti over the next 5 years.

The Green Foundation is a Haitian based NGO with strong administrative abilities. They will recruit and train other NGOs in Haiti regarding best practices in kenaf cultivation and regarding Kenaf Stove manufacturing.

Father Mark runs Free The Kids, a 700 child orphanage in Haiti that gives academic and vocational education to 2,500 children and daily meals to 3,500 children. He has 50 acres available for kenaf production on his 100+ acre facility surrounding their Hope Village residence ([link](#)). His organization would be involved with manufacturing parts for the Kenaf Stove, giving the older children jobs. Due to the quality of their vocational training, they would later be trained to be Building Teams for Stage 2.

Hope Ministries, Dabouze Antoine, has dug 50,000 water wells in Haiti since 2005. They planted 30 lbs of kenaf seeds in May 2009. This kept the village of 2,000 in Mirebalais from starving by harvesting the kenaf leaves.

Technical Specifications

The Kenaf Stove

Cement powder, kenaf that is ground up like sand and gravel and used as an aggregate to be mixed with cement powder and water to make kenaf concrete, steel for stove parts, plastic pipes for legs, steel reinforcing rods.

The Training Center

The training center design looks just like the national training center design described in **Appendix D**. The difference is that the world wide training center will be built to 1st world engineering standards, the most expensive of which is the sewerage system.

The systems necessary to handle the waste have several points that Engineer David Ramsey is still reviewing. Although Mr. Ramsey is very familiar with civil engineering and designing conventional sewerage treatment facilities, the inventor, Bill Loftus, has specified the components that fit well with his vision.

Understanding the sewerage system and electric power plant

It is important to improve these systems, as adequate bathroom facilities do not exist for 2.6 BILLION people. As Mr. Loftus says, “It starts somewhere,” so here are the parts to the system in layman’s terms:

We are using not so high-tech definitions:

Grey water is shower and sink wastewater and everything that is not black water.

Black water is pee and poop.

Butchering waste we are calling guts.

The toilet – This is a kenaf concrete toilet designed by Mr. Loftus. This toilet is the same one designed for a developing country starter house. It is different than conventional toilets because it requires 1 pint of water to flush for poop, $\frac{1}{2}$ pt for pee. The small amount of water to flush is needed because to make methane, the bacteria need a certain solid to liquid ratio in the black water and guts. Methane is made from bacteria where they don’t need oxygen to live and flourish. These bacteria are anaerobic bacteria. Think of it like they eat the black water and guts and they poop methane. Methane is a similar gas to propane that we use for our barbecues.

The black water tank- When you flush the toilet, the black water goes into a storage tank located in the 4 ft. crawl space beneath the first floor (typical of all Mr. Loftus’s houses). A special

trailer with a tank is made to collect the black water; it is pulled by a tractor. This job will also be in a developing country. The black water is pumped out to the methane digester. The storage tank is made from EPDM rubber (this is the rubber that is used to make inner tubes).

The grey water tank- This is also located under the first floor. It stores students' shower and sink water. It should be noted that we will specify soaps and tooth paste that can only be used as some are harder to break down than others. The major function of the grey water tank is to function as a settling pond where the solids, like hair, or toothpaste, etc., are allowed to settle. At intervals, the gray water tank is completely emptied and the "scum" is removed and brought to the methane generator.

Electro coagulation machinery - The grey water is gravity exited to the water processing machinery where electricity is used. This is a patented device that basically kills bacteria, makes microscopic solids gather onto one another – coagulate – with the end result we have water that is clean enough to be used for irrigation or to supply a fish pond. Many industrial companies, like Tyson Foods, use this method to clean up their water. Chris and Rand Davis, principals of Quantum- Ionics, represent the technology and are part of our team.

Methane Digester- This device is a modular system where a certain amount of solid waste goes into a container sized box. Most of the processes are proprietary and cannot be disclosed. It turns the waste into methane gas and this gas is used to run a generator that creates electricity.

Basically the task at hand is to coordinate the above technology into a form that will allow a building permit. It will take some effort on the parts of the different engineers involved; a substantial part of this project is the plan review process.

Rainwater - Underneath the ground floor of all homes and student housing is a cistern. Basically, we get 4 feet of rain in Florida per year. When we build a house, road or other building, we block the rainwater from going back into the soil to replenish the groundwater. By capturing the rainwater we can reuse it for irrigation. Mr. Loftus would additionally like to use this water to flush the toilets. Although at first glance flushing toilets with rainwater is a practical use of rainwater, there are several hoops that prohibit non-potable water from being used in the home. The basic concern is that this system could be mistakenly used as source supply water for the home. This is not allowed as there could be germs in the rainwater and the potential for sickness from drinking rainwater is possible.

However, in countries where there is a severe shortage of drinking water, we at least have stored most of the homes water usage and a filtration system can then be incorporated. The storage tanks are also the EPDM rubber.

Financial Projections

I. Worldwide Training Center

\$2,000,000	Land and business acquisition from Beth and Dave Seely or alternate
250,000	Plans, Engineering, Permits and fees
3,000,000	Training Center Building
9,000,000	Sewage treatment plant
1,300,000	Solar system, methane digester and water treatment
4,250,000	500 acres for production
200,000	Bio-mass generator
<u>2,000,000</u>	Student, staff housing renovations, general improvements
\$22,000,000	Total

Annual Expenses

\$100,000	Combined Insurances – Vehicles, Medical, Liability, Workman’s Comp
40,000	Legal, Accounting, Bookkeeping
175,000	Promotion and Marketing (includes airfare for guests from developing nations)
100,000	Student materials - Construction supplies
50,000	Office supplies, phone, fax, misc.
<u>\$910,000</u>	Staff salaries for 40 staff
\$1,375,000	Total Expenses

Annual Income (excluding food sales of excess production)

\$500,000	General Public - \$100 per week x 50 weeks x 100 students (Housing)
<u>875,000</u>	General Public - \$175 per week x 50 weeks x 100 students (Tuition)
\$1,375,000	Total Income

Note 1: The training center is designed to house and accommodate up to 400 people at a time. However, in our financial projections, our conservative income assumptions are based on 200 participants, with only 100 of them being paying students from the general public.

Note 2: There are ongoing discussions with John Deere to mass manufacture the farm equipment packages. The royalties from the farm equipment will be assigned to Kenaf Tech Training Center. These royalties are not included in these financial projections, but could potentially be millions of dollars annually (see Appendix C).

II. Kenaf Stove

Materials

\$2.00	Cement Powder (BULK rate @ \$.05 /lb.)
2.00	Kenaf material
3.00	Steel stove parts (includes labor, insurance, rents, overhead)
1.00	Plastic pipes to make the legs for the stove
2.00	Steel reinforcing rods.
<u>3.00</u>	Shipping
\$13.00	Sub Total

Labor (local)

\$2.00	Labor -Piece work - This is probably high... we'll let the NGO decide
2.00	Factory Management
4.00	Sales commission to distributor
2.00	Administrative expenses
<u>1.00</u>	Training expenses
\$11.00	Sub Total

Fuel

\$12.00	Kenaf Seed
---------	------------

\$36.00 Total

Appendix A

(Email from NGO in Port-au-Prince, Haiti)

From: Claude Reginald JEAN
Sent: Tuesday, November 16, 2010 9:59 AM
To: Bill Loftus
Subject: Proposal Port-au- Prince, November 16th, 2010

Dear Mr. Loftus,

As you know I was one of your first pioneers with growing kenaf here in Port au Prince Haiti. I believe our first crop was done in 2007. We enjoyed the taste of the leaves and we and the orphanage use kenaf for some meals. The kids liked the taste and we mixed it with rice.

Re the stove. I think the stove will be very popular. Haiti needs to get charcoal from any source other than from trees. I support your vision and it is a practical one. I personally have access to 20 hectares of land in a little town called Cazale about an hour north of Port au Prince.

I would like very much to be your on the ground manager setting up the manufacturing Facilities and finding good partners for your investors. A job is a valued thing in Haiti and I believe I can bring you a solid group of entrepreneurs who can be trusted to collect the monthly payments from the people who need the financing for the stoves. I agree that it would be comfortable to repay \$2.00 a month for even the poorest of Haitians because they are spending much more than that already for charcoal.

I would estimate that we could easily sell and manufacture 1 million stoves over the next 5 years.

I have been involved with many NGO's (NPO) in Haiti and GRODYSH (Groupe Dynamique pour la Survie d'Haiti), my personal NGO is very active as a federation of Organizations all around Haiti. Together we can plant Haiti in kenaf and never need to use another tree for firewood again.

I look forward to coming on staff with you.

Sincerely Reggie

Claude Reginald JEAN

General Coordinator GRODYSH

General Director TFOH & IHLRH

Haiti: 2, Impasse Jean, route SOS, Santo 19,

Croix des Bouquets, P-au-P, Haiti. HT-6310

Cel. (509) 25 19 50 05 / 37 36 42 42 / 34 19 60 94

USA. 1185 Sonerset Circle South, Dunedin, Florida. 34698

Cel. (727) 466 7705

Appendix B

(Letter from Hope Ministries, in Mirebalais, Haiti)

February 12, 2010

Dear Mr. Loftus:

I first off would like to thank you and your staff for assisting us with training on growing our first kenaf crop in Haiti. I'm writing this letter to share with you on how the 30lbs of kenaf seeds I received back in May of 2009, helped the people of Haiti to grow better nutritional food for themselves and their families. It was a success. The people grew and harvested Whitten kenaf through their own hard work and efforts. The training worked well and we are looking forward to the next training on your mobile farm equipment where we could efficiently plant several villages quickly and potentially eliminate hunger in these villages.

The seeds were distributed and planted throughout several villages in Haiti. Please let me explain, the first planting was in Mirebalais, where the population is 280,000 where I was born. While in Mirebalais, I gathered 25 villagers that were relying on the government's unpredictable subsidized food system. Kenaf was valuable because when there was no food available the people could eat kenaf. This in just 3 weeks! The leaves were continuously harvested each week thereafter. When we showed Tibe a member of our church he organized villagers and even went on the radio station and told many people about kenaf and trained them with your video and gave out seeds. I know of a little village of 2000 people that kenaf fed in part and kept many people from hunger. The local people have come up with several recipes now and loved the taste. They use it in baking and making a legume soup.

We would like to participate in your program where the basic problem of having plenty of land but no farm equipment and seeds results in poor yields is addressed. We would oversee the use and care and maintenance of the mobile farm equipment package and make this equipment available to anyone who has land. I think we could easily use 5 mobile farm equipment packages. On the ground Tibe would organize fair use of the equipment and distribution of the seeds. He has shown remarkable ability in this regards and is a trustworthy person whom I would highly recommend. There is not a problem with harvesting the leaves and later the seeds as there are many capable to do that. We understand that the success of this would be a stepping stone to introducing kenaf and other plants as a chicken feed as well.

Do to the fact that the seed reproduces on its own the villagers now have some seeds to replenish their food supply but with your estimated 5000 lbs of additional seeds we could plant 500 acres. We would have enough kenaf leaves then to feed thousands regularly. We would never need seeds again.

We would be more than interested in a non profit venture to create a coalition of farmers where we would jointly own a flour mill here in Haiti. When you are successful in finding markets for Haitian flour and seeds in the US we will have achieved a miracle as now the people could be employed as well as fed. We will work closely with the coalition in establishing this mill.

Since 2005 I have assisted in the digging of 50,000 water wells that serve 1,000 people each. My goal within two years is to have 50,000 additional water wells throughout the country of Haiti.

Mr. Loftus, I know along with more water wells and with more of the kenaf seeds that were developed by Dr. Baldwin and his staff at the Mississippi State University we can be closer to achieving self-sufficiency.

Sincerely yours,

Dabouze Antoine

Appendix C

(Letter of Intent - Assignment of Intellectual Property DRAFT)

Whereas William Loftus has personally, at his own expense, successfully completed a workable cooking stove that makes bio-char;

Whereas the countries of the world that rely on tree-based fuel for cooking will benefit from using this stove;

Whereas the Together We Can Foundation is desirous of funding the technical training on manufacturing the stove and providing the agricultural training on growing the fuel;

It is my intent to grant all rights to the Kenaf Stove to Together We Can Foundation and to remain as a consultant for 5 years.

Whereas William Loftus has researched and developed customized farm equipment, with specific application to the small rural farmer, the rights to this equipment are assigned to the forming Florida Non Profit - Kenaf Tech Training Center, upon successful funding provided by Together We Can Foundation.

In addition, a sum of three million US dollars (\$3,000,000 USD), will be made payable to William Loftus from Together We Can Foundation, which would be inclusive of the intellectual property rights for the Kenaf Stove and customized farm equipment, both presently available farm equipment currently being developed and all future farm equipment and improvements as relating to planting, processing, and harvesting all parts of the kenaf plant.

It is the intent that the Kenaf Tech Training Center utilizes this assignment of intellectual property, which may have patent potential, as a means of providing additional funding for the salaries of staff, operations and expansion of the Kenaf Tech Training Center.

The decisions as to how to best benefit the Kenaf Tech Training Center from the sale, manufacturing licenses income, royalty income, lease income and any other sources of income for the farm equipment school will be made solely by the Board of Directors of the Kenaf Tech Training Center.

It is the intent that the income from the sale of the stoves be mutually beneficial to the manufacturer and the orphanages/training centers.

It is predicted that the technology of manufacturing the stove will be copied, duplicated, and replicated. That is the intent of Together We Can Foundation to allow, with out restriction, any person or any company to manufacture and sell the stove with out royalty payments.

In consideration for the assignment of the Kenaf Stove technology to the Together We Can Foundation, William Loftus will be remitted a sum of one dollar (\$1 USD).

Appendix D
(Design for Kenaf Tech Training Center and National Training Centers)

A Safe, Self-Contained, Self Sustaining Environment...

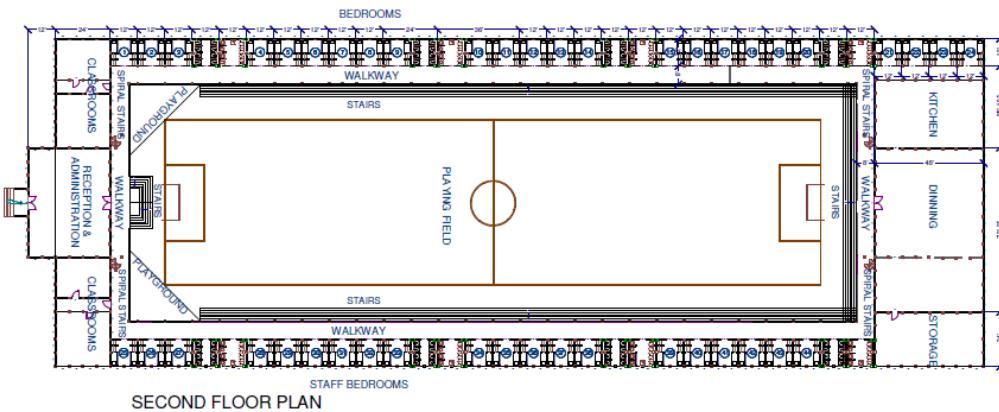


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<i>for Children!</i>	

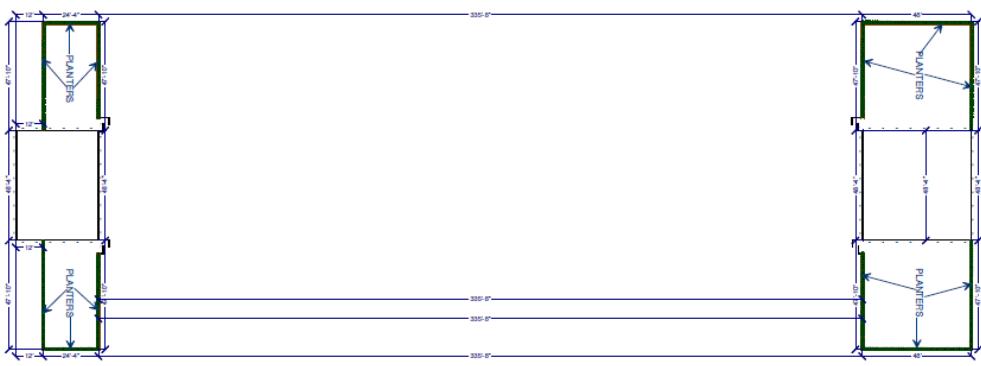
FIRST FLOOR PLAN

1" = 50' SCALE

FIRST FLOOR PLAN



SECOND FLOOR PLAN



2

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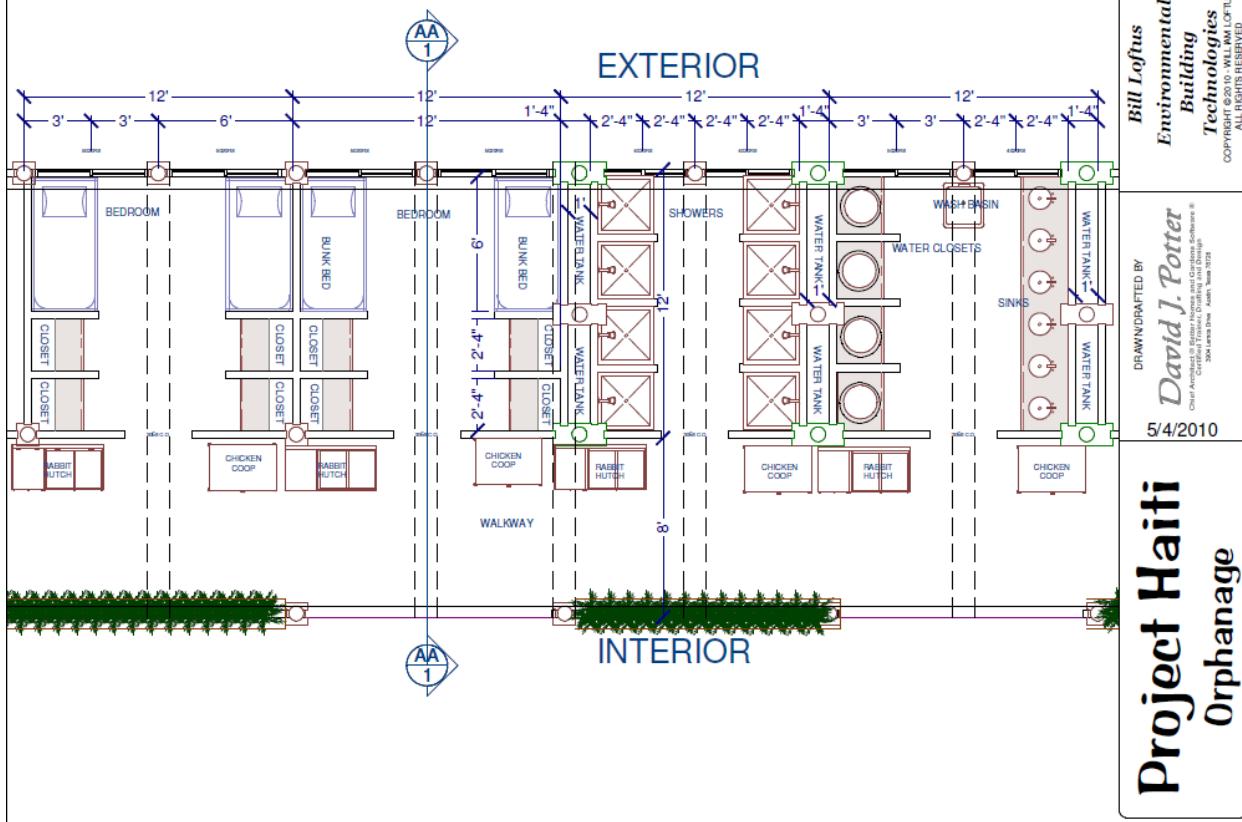
DRAWN/DRAFTED BY
David J. Potter
Client: Architect Bill Loftus and Grafton Software
Contractor: Prime Drafting and Design
2007-2010, Port-au-Prince, Haiti, West Africa

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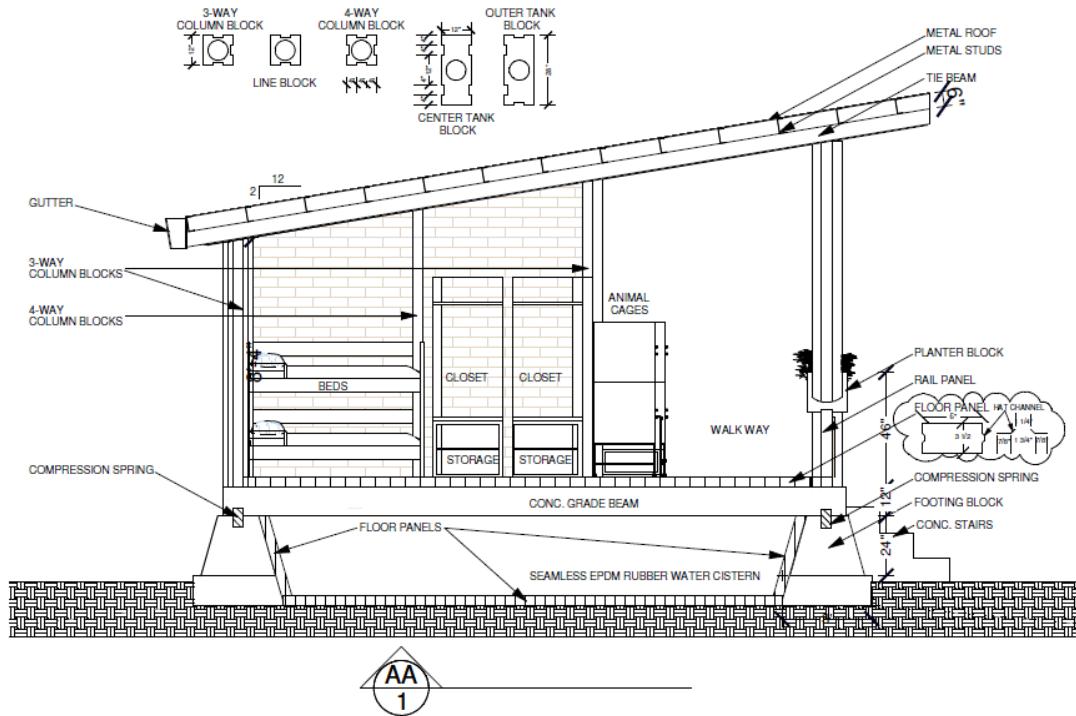
ROOMS LAYOUT PLAN

3/16" = 1' SCALE



BEDROOM CROSS SECTION

1/4" = 1' SCALE

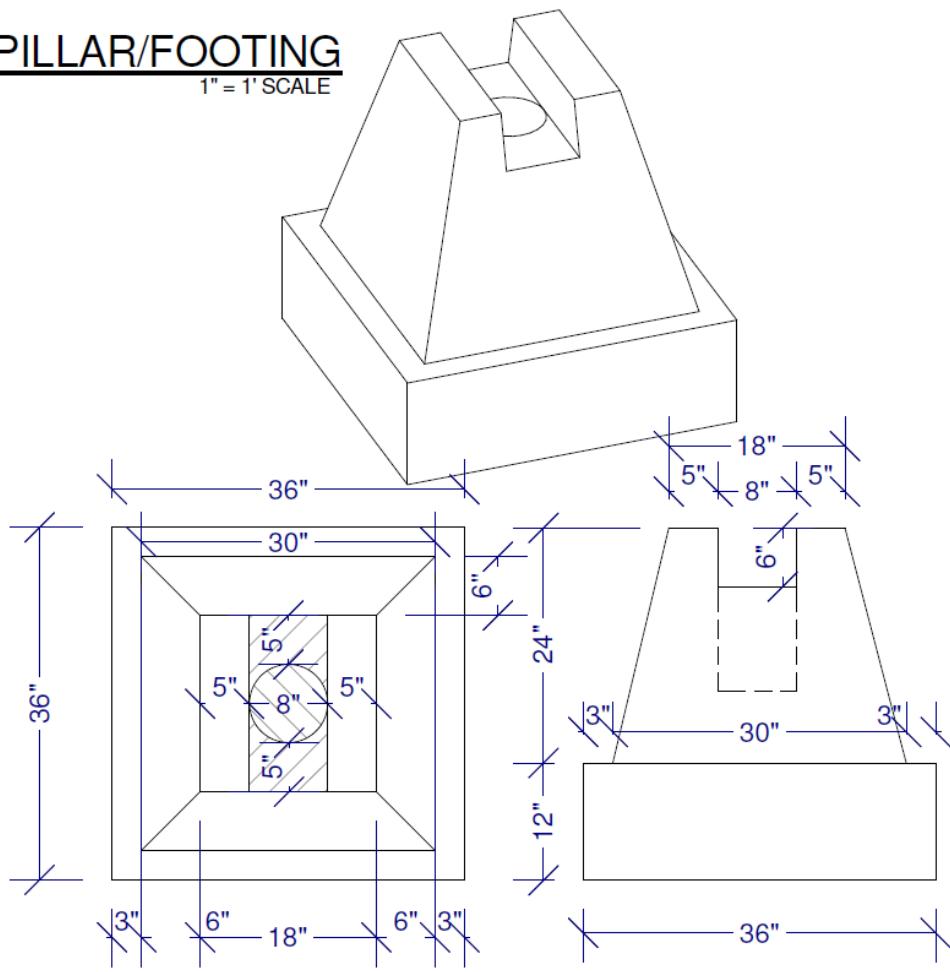


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PILLAR/FOOTING

1" = 1' SCALE



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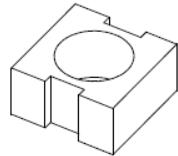
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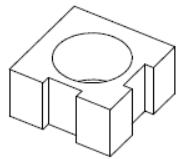
TWO-WAY BLOCK-A

1" = 1' SCALE



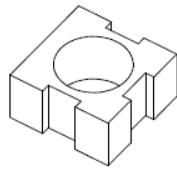
TWO-WAY BLOCK-B

1" = 1' SCALE

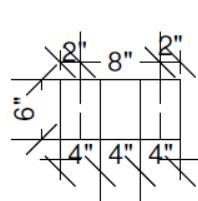


THREE-WAY BLOCK

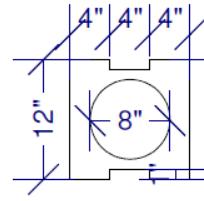
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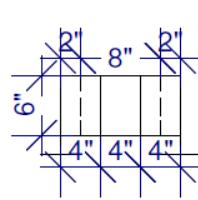
ELEVATION



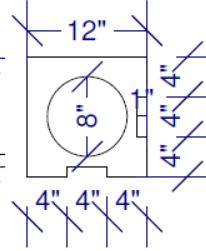
TOP VIEW



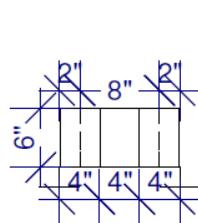
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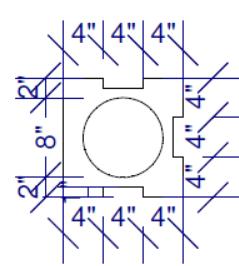
TOP VIEW



ELEVATION



TOP VIEW



6

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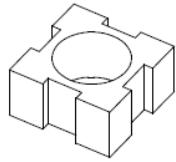
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Owner Architect of Environmental Building Technologies Inc.
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512-444-3200

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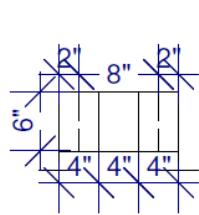
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FOUR-WAY BLOCK

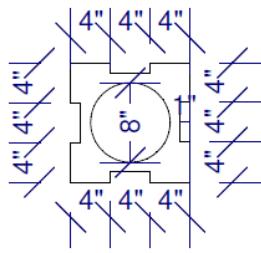
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ELEVATION

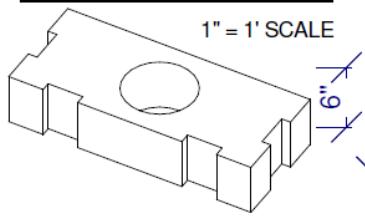


TOP VIEW

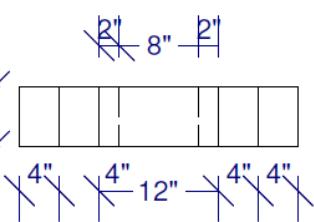


TANK BLOCK-A

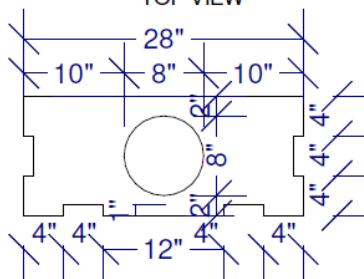
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ELEVATION

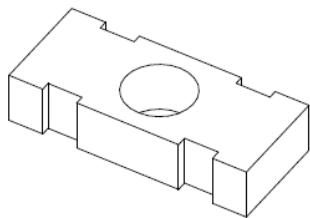


TOP VIEW



TANK BLOCK-B

1" = 1' SCALE



A diagram of a rectangular room. The top edge is labeled "20\" and the right edge is labeled "20\". The left edge has a bracket with "6" and an angle symbol. The bottom edge has two brackets: one spanning the first four columns with "4\"", and another spanning the last three columns with "12\"". The middle vertical lines divide the room into five equal-width columns.

A technical diagram of a rectangular concrete foundation. The overall width is 28 inches, and the overall height is 8 inches. The foundation features a central circular opening with a diameter of 8 inches. On the left side, there are two vertical columns, each 4 inches wide and 12 inches high. The right side has a single vertical column 4 inches wide and 12 inches high. A horizontal beam connects the top of the left columns to the top of the right column. Reinforcement bars are shown as diagonal lines. On the left, there are four vertical bars (two 4" x 2" and two 4" x 4") and a horizontal bar 2" from the top. On the right, there are four vertical bars (one 2" x 2", one 4" x 4", and two 4" x 4") and a horizontal bar 2" from the bottom. A horizontal bar 8" from the bottom is also present on the right.

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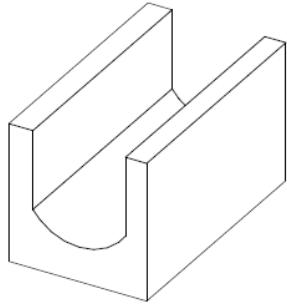
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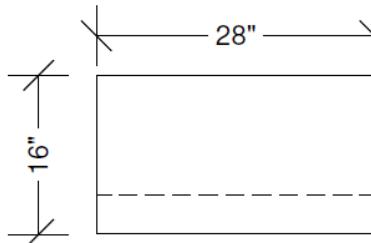
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PLANTER BLOCK

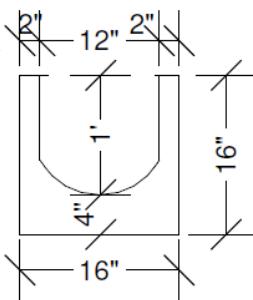
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ELEVATION

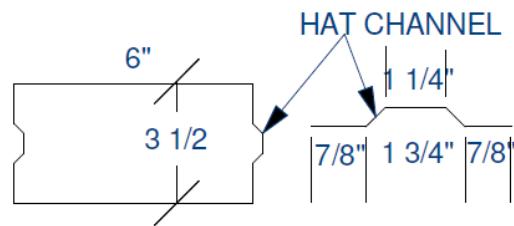
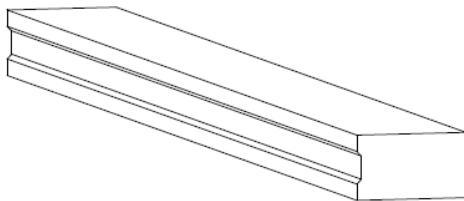


SIDE ELEVATION



FLOOR PANEL

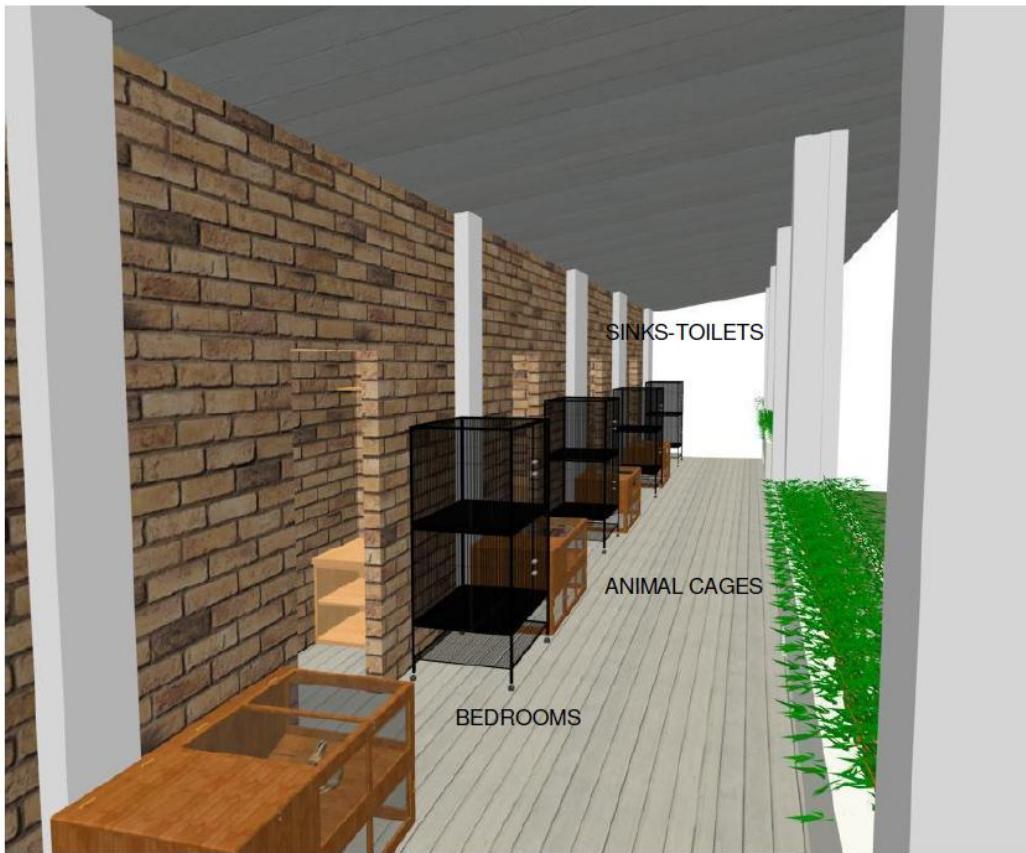
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CONCEPTUAL VIEW

NO SCALE



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CONCEPTUAL VIEW

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TOILETS

SINKS

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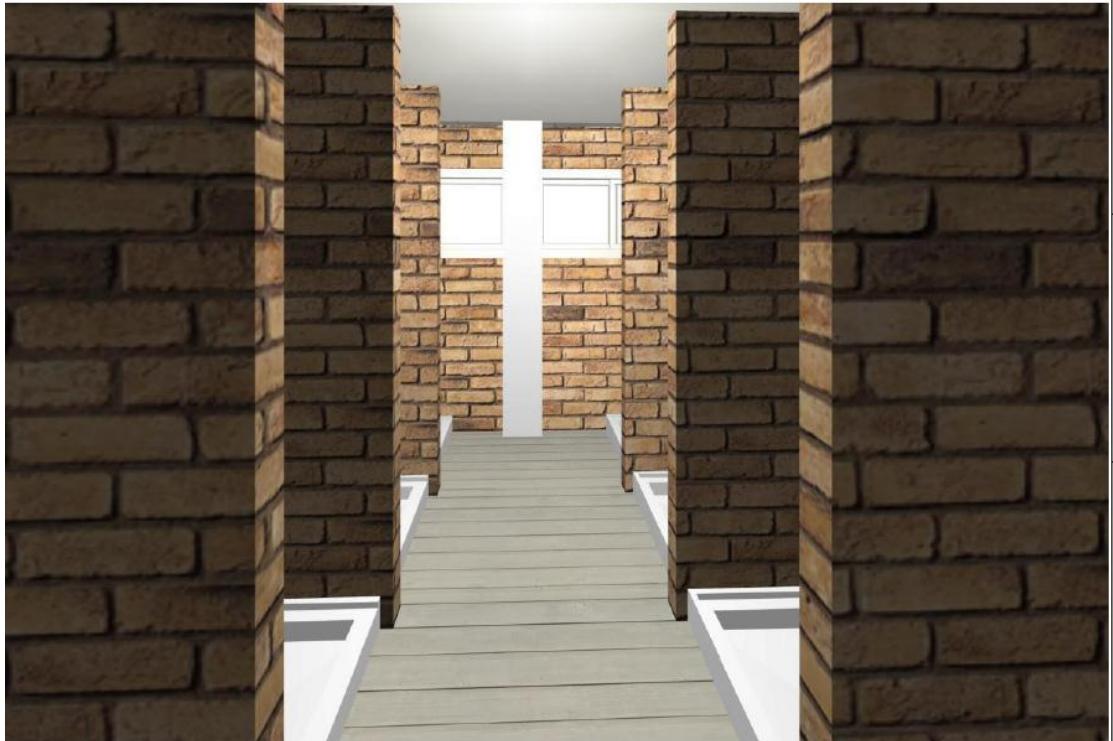
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CONCEPTUAL VIEW

NO SCALE



SHOWERS

11

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CONCEPTUAL VIEW

NO SCALE



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NO SCALE



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CONCEPTUAL VIEW

NO SCALE



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5/4/2010

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NO SCALE



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NO SCALE



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CONCEPTUAL VIEW

NO SCALE

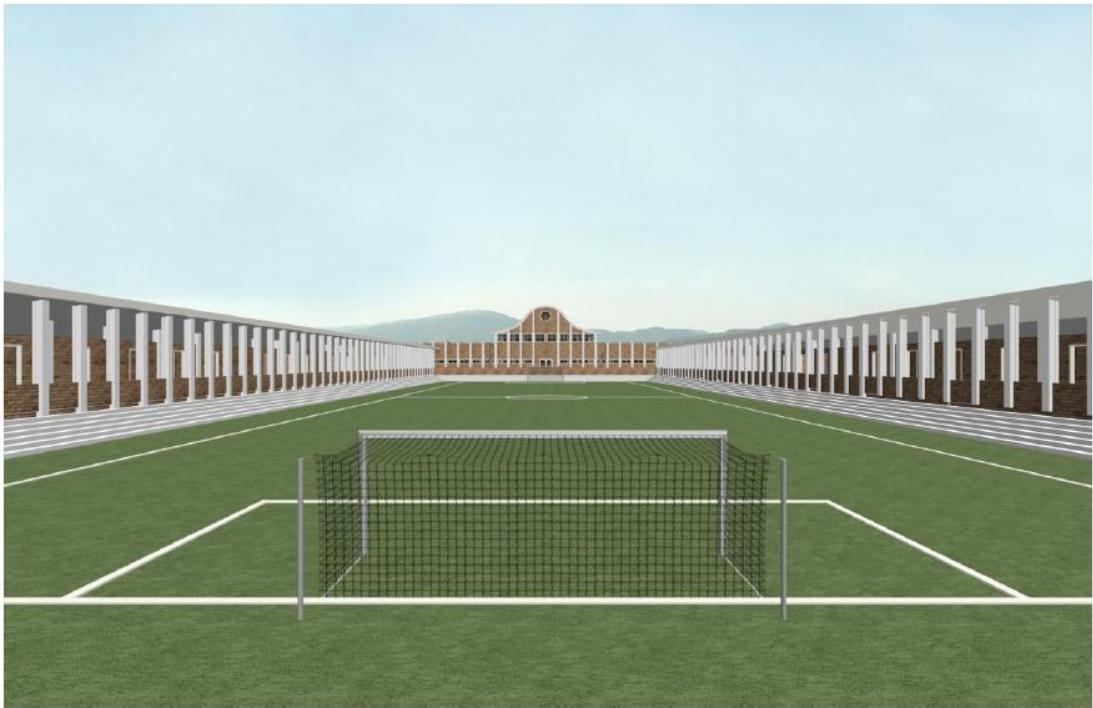


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CONCEPTUAL VIEW

NO SCALE

VIEW FROM REAR TOWARDS THE ADMINISTRATION BUILDING



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DRAWN/DRAFTED BY David J. Potter	Client: Architectural Services and Guidance, Section 8 Contractor: Fentress Architects, Drawing and Design 204 Avenue A New Orleans, LA 70112	
5/4/2010		

**Project Haiti
Orphanage**

CONCEPTUAL VIEW

NO SCALE

PLANTER BLOCKS NOT SHOWN IN THIS VIEW



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**Project Haiti
Orphanage**