



Eagle Scout Project

By: Thomas Tavar

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Introduction

My name is Thomas Tavar, I have lived in Newtown Connecticut my whole life at 23 Old Farm Hill Road. My family has lived here for the past 17 years. I live with my parents Tom and Penny Tavar, my sister Alexia and my brother Athan. I was a cub scout at St. Rose for five years, and I have been a boy scout at the Newtown Congregational Church for the past four years. I am a candidate for the rank of Eagle Scout this year, and I am here today to ask this committee to approve the construction of my Eagle Scout project on the Fairfield Hills campus.

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My Purpose Statement

My purpose for doing this project is to give back to the Newtown Community in general, but also to serve as an example to all other Newtown youth who may want to help our community in a meaningful way.

This project not only provides the public with Fairfield Hills information and free solar powered charging ports; but it also shows how my generation cares about community service and the environmental impact.

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Why Fairfield Hills?

I think that Fairfield Hills is the best location for my project because of its wide open spaces. The intersection between the EOC driveway and the old and new Glander baseball fields is a perfect spot for this project.

I have also plan on presenting this project to the Newtown Forest Association and to the Audubon Society; Bent of The River in Southbury. But, I would prefer Fairfield Hills for the project because its location and high foot traffic will have the biggest public impact and the most public use.

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Project Detail

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Structural Foundation

The structural foundation for the kiosk will consist of...

- Two support columns made of stacked (16" x 8" x 8") concrete cinder blocks. Sitting on an (18" x 10" x 6") concrete footings placed 36" below the surface.
- Each column will be covered with a Red Clay Brick facade from the surface slab to the roof ridge.
- The concrete surface slab will be at ground level and measure about 9' 8" x 9' 8" x 4" (thick)
- The slab will also be reinforced with a wire mesh.

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Roofing Details

- The roof rafters, the fascia, and the roof ridge will be constructed of 2"x4" pressure treated lumber. All of the 2"x4" fascias will be covered with 1" x 6" Azek PVC trim board.
- The roof sheathing will be two sheets of pressure treated plywood. The plywood will be screwed onto the rafters with galvanized screws.
- We will cover the sheathing with roofing paper and then install a Timberline 3-Tab roofing shingles over the paper.

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Solar Panel

- We have selected the Canadian Solar Diamond panel which generates 260W of power at 17% efficiency, and has a lifespan of 25-30 years.
- The solar cells are sandwiched between two glass panels which do not require a metal frame and does not need to be grounded.
- This 260W panel is capable of fully charging a Goal Zero Yeti 400 Lithium powered solar generator within 4-6 hours.

Note: You can easily daisy chain two panels to produce double the power and thereby cutting the generator charging time in half.

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Solar Generator

- We propose the use of a Goal Zero Yeti 400 solar generator. This new generator uses a replaceable Lithium Ion battery that has a lifespan of 7-10 years and only weighs 42lbs.
- This new product by Goal Zero is much better than other lead acid battery generators in the market which are heavier and do not have a replaceable power supply.
- The Yeti 400 generates 428 Watt hrs, which is more powerful than all other generators in its class. This amount of power is sufficient to provide a full charge to over 20 devices simultaneously, multiple times per day, from a single full charge.

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Public USB Charging Ports

- We selected the Hubbell 4-Port USB charging outlets. The Hubbell 4-Port USB outlets are heavy duty industrial strength USB outlets that are used in Universities and Hospitals. Each of their stainless steel USB ports is rated for 10,000+ insertions.
- We plan to install a total of four 1-gang outdoor receptacles using the Hubbell 4-Port USB outlets. We will install two sets of outlets on each side of the lower cross beam section for a total of 16 USB ports available for public use.

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Commercial Park Bench

- As per the existing FHA Campus design specifications; we will install one 6 ft commercial park bench made by Barco Products on one side of the kiosk under the roof. We will secure and bolt the bench directly on to the kiosk concrete slab.
- The 6' Cassidy Arched Back Onyx Bench is made of heavy duty powder coated stainless steel. Part# (CJ) 02CL1371-BK.
- The bench frame includes holes for surface mount with stainless steel bolts into the concrete surface slab.

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Full Color Display boards

- The information displays boards we propose are made of aluminum composite sign panel boards. Each side of the Kiosk will display one large board measuring (24" x 36" x 1/8") and four smaller boards.
- The aluminum sheets are attached to stainless steel pipes using galvanized metal brackets and bolts.
- The display images are to be printed on full color 3M non-fading vinyl adhesive sheets (same as highway billboard signs).
- FHA will decide what information and campus map images it would like to display on the boards.

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Responsibilities and Expectations

As an Eagle Scout candidate I am responsible for making sure that the project is completed as outlined in my project plan. I alone am responsible for managing the staff and selecting my key adult supervisors (Mr. Adams, Mr. Carpenter, and my dad, Tom Tavar).

The committee is the beneficiary of the project and is required to review and approve all aspects of the project plan. I will provide the committee with an instructional guide that helps you navigate the process.

If the committee approves the project, it is requested that one committee representative be appointed as the project coordinator.

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Conclusion

- I want to assure you that the project will be constructed with the highest quality materials and workmanship.
- We estimate the construction timeline to be 2 or 3 weekends (Sat/Sun) of work.
- We are prepared to put the shovel in the ground as early as June/July of this year.
- I want to thank all of you for your time and look forward to your reply.

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Q&A

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