

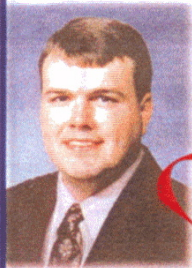


"El Castillo" main pyramid at Toltec Chichen Itza. 900-1200AD Yucatan, Mexico

Engineering Solutions



Published by Tony Huff and Associates



Tony Huff, PE

A WORD FROM Tony

I have been very blessed with opportunity to serve clients with a wide variety of services ranging from traditional design of buildings, bridges and site

developments to some very interesting forensic investigations.

When I am out marketing my services, one of the most common questions that I field is, "What do Engineers do??" When I began the mission of starting my engineering practice, I had to answer the same question, "What do I do..... and Why do I do it??" In answering, I developed a Mission Statement:

"We exist to help people, business, and industry solve problems with engineering solutions."

I am dedicating this newsletter to help answer this basic question and to help my engineering practice to fulfill this mission. I hope to communicate with clients and prospective clients about our growing engineering practice and issues that affect our community. We will go behind the scenes of projects of interest and inform our readers of activities and opportunities on the horizon.

I hope you have a great day.

Behind the Scenes

Structural design is one of the basic services that engineers provide. From the Egyptian Pyramids of 5000BC to today's complicated structures, engineers combine available materials with design technology to turn ideas into reality.

Bob Robert's Auto Sales

When Bob Roberts needed a building to prep and shelter vehicles for his new business, THA provided structural engineering services to design and detail construction plans for his 54' x 32' 3-bay detail shop.

Code Requirements

The structure is designed to meet the requirements of the Kentucky Building Code. The safety and sturdiness of the building is important to Bob for the protection of his property, but is also important to neighboring properties.

Materials

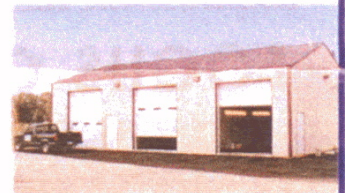
Bob chose a timber building because of the efficiency and versatility of the structure which has several advantages:

1) construction of readily available materials, 2) can be in the dry in a matter of days, 3) maxi-

mum flexibility in finishing the structure's interior.

Design Considerations

The key to designing the timber building is to size the columns and other structural members to resist bending and shear in wind and live load conditions. The foundation is designed to prevent lateral movement and column settlement and to prevent the wind from "picking-up" the relatively light structure.



Bob Roberts Auto Sales Owensboro, Kentucky

PRST STD
US POSTAGE PAID
OWENSBORO, KY
42301
Permit # 120

Tony Huff & Associates
Suite 60, 2200 Airport Road
Owensboro, KY 42301



On the HORIZON

Dedication of Natcher Bridge.....August 2

Announcing:

Tony Huff & Associates has attained pre-qualification to perform In-Depth Structure Inspection services for the Kentucky Transportation Cabinet. THA is also pre-qualified with the KYTC in the areas of: •Environmental Impact Statement Writing •Socio-Economic Analysis •Rural Roadway Design •Urban Roadway Design

Next Issue:

FOCUS on "Forensic" Engineering



Natcher Bridge under construction.
Spring 2001 Photos by: T. Huff

Engineering Solutions

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If your group or organization is interested in having THA make a presentation, please call us at 270-686-8525.

FOCUS On... The Professional Engineer

An associate once said, "from the time you wake in the morning to the time you go to bed at night, everything you do and everything around you involves some discipline of engineering". If you stop and think about it, engineers are "Problem Solvers" and they generally do such a good job, that they often go unnoticed.

Here are a few definitions and points of clarification from the notebook of Tony Huff:

Engineer - 1. One who applies

the principals of math and science to solve problems and improve the quality of life.

2. One who acts as a catalyst in taking ideas into reality.

Professional Engineer - One who, by ABET accredited education, documented training, and examination is deemed worthy to engage in the practice of engineering. This is signified by licensure granted by the state board of registration. The title Professional Engineer (or PE) is then given to the engineer in

similar fashion as MD is given to the doctor.

Code of Ethics - The professional engineer is bound by a Code of Ethics that requires the engineer to act in a manner that protects the safety, health and welfare of the public and to practice engineering in an objective and truthful manner.

Professional engineers are "Professional Problem Solvers," who help to make our world a better place to live.