

Great things are happening...people:

Berrien County Fair Winners

Allison and Matthew Mitchell recently exhibited their swine at the Berrien County Youth Fair. Both won "A" ribbons for Showmanship. Allison's swine won 6th place in the medium weight class and Matthew's swine won 8th place in the heavy weight class. Proud dad, Dave Mitchell is Manager of Resident Project Representatives at WAI.



It's Official!!



Alan Smaka received his Professional Engineering License. He graduated with Honors from Purdue University with degrees in Civil Engineering and Land Surveying. At Purdue he was a member of Phi Beta Kappa, President - Lambda Sigma Land Surveying Honor Society, and was recognized by Civil Engineering News as Purdue's "Star Civil Engineering Student" 2003. He

has worked at WAI as an intern and as an employee since 1997. Congratulations!

Great things are happening...projects:

WAI was selected by Cambria, Hillsdale and Reading Townships in Hillsdale County from ten local and national engineering firms to complete a feasibility study for providing municipal water and sewer services to the Townships and in particular the developed areas surrounding several chains of lakes. Our unique experience and qualifications with lake areas, record of completing projects in a timely manner and commitment to providing practical solutions that are cost effective to construct gave us the winning edge.



AEP selected WAI to do their surveying work in Southwestern Michigan.



Eatza Pizza, Muncie, IN – This is a first in a new franchise outlet for CEPT Franchise Company who also operates Del Taco, Popeye's, and Wings Etc. WAI did the architecture, engineering and interior design work.



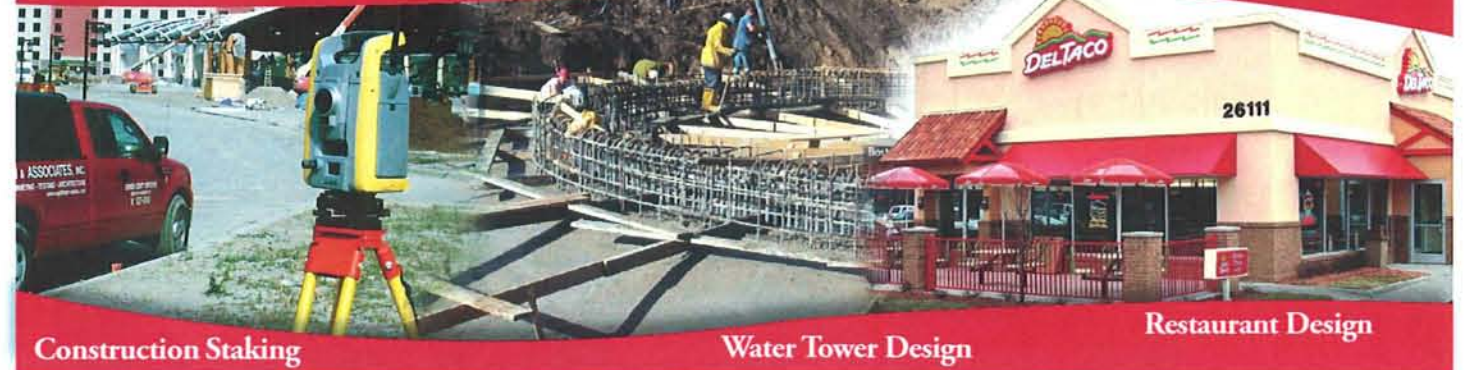
2303 Pipestone Road, Benton Harbor, MI 49022

WAI WIGHTMAN & ASSOCIATES, INC. ENGINEERING • SURVEYING • ARCHITECTURE

WAI THE WIGHTMAN WAY

Fall 2007

Practical Solutions Based On Common Sense.



Construction Staking

Water Tower Design

Restaurant Design

Helping you to see the FUTURE

Have you ever wished you could see your project before it is built? Or wish you could evaluate color or façade changes during construction. Now you can. With WAI in-house computerized 3-D modeling and illustration you can have more timely input for project decisions by being able to see options before you move ahead.

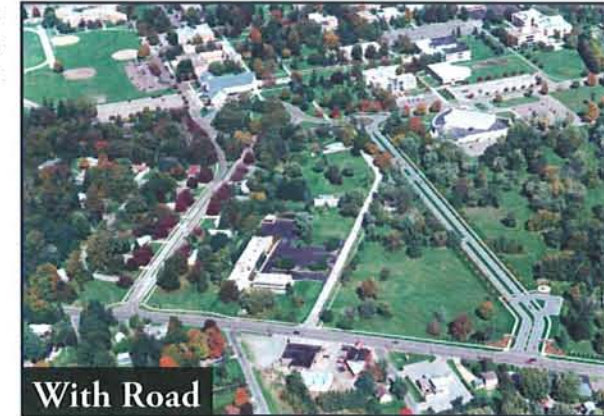
Before and after images more or less are the "Big Picture" view of what a project will be like and what impact it will have on the surrounding area. This type of imaging works well with public projects such as new road development or changes to intersections. In the case of Andrews University, WAI was able to illustrate the impact of a new road in a developed area, giving officials the ability to see how the road would seamlessly intersect with an existing roadway.

Aerial perspectives offer you the opportunity to see your new building as it will appear on an existing site so that you can rotate the structure to take advantage of ground, infrastructure or weather factors. This also works well if you are planning a building addition by allowing you to see different configurations so you can choose the right one for your site.

Blueprint elevations sometimes are not enough to spark the imagination of what the building or renovation of an existing building will be like. 3-D models can bring the concept to life where you can see interior,



Before



With Road

exterior and landscape options before final plans are developed.

Stumped on what color or façade you would like?

3-D modeling can depict what different materials and colors will look like during the day and at night. When you plan to use multiple color combinations, this will help to get the right grouping before purchasing any paint. This modeling is also helpful in

selecting light fixtures and the quantity of fixtures needed.

If natural light is important, the Sun Study gives you multiple views showing shadows and light intensity during different times of the day and for different times of the year.

WAI computerized 3-D modeling and illustrations have helped clients save money, make decisions earlier in the process, and be more confident with the outcome of their project.



Day and Night Views

Brownfields to Signature Golf Course

Since 2004 WAI has been providing surveying services for the soon to be developed, 18-hole Jack Nicklaus Signature golf course in the Harbor Shores Development. WAI had originally established a Survey Control Network for the overall project and most recently staked routing of the golf holes for the 110 acre course developed by the Nicklaus Design Group. Sections of the golf course will be over the former Benton Harbor Malleable Industries sites on Paw Paw Avenue and Graham Avenue and will redevelop these long neglected parcels.

Jack Nicklaus recently walked the course to give his approval for construction to begin. The course is expected to be under construction soon and to be playable by summer 2009. WAI Professional Surveyors and survey crews have spent countless hours providing professional services for the land

acquisition, golf course and overall general development of the project.

As a key component in the Harbor Shores Development, the course will help spur the overall project which will include a \$500 million mixed-use development to be completed over the next 20 years. The development is planned to include the Midwest's first Nicklaus Signature Golf Academy, residential development, marinas, an indoor water park, two hotels and a convention center, and various small retail shops.

The Harbor Shores Development located in the City of Benton Harbor, Benton Township and the City of St. Joseph, Michigan is being developed by the non profit group Harbor Shores Community Redevelopment. ■



Future site of the Club House taken from the first tee.



View of the 17th hole.

Inter-Municipal Utility Service Agreements

"How to make it happen!"



Matt Davis recently spoke at the Michigan Rural Water Association Manager Conference regarding successful techniques to gaining mutual support when working with multiple governmental entities. WAI has helped to establish many different types of agreements for townships, cities, lake communities, and villages. The key advantages of inter-municipal agreements include

cost effectiveness, reliability, overcoming geographic constraints, and over all improvement of water quality/treatment quality.

The common pitfalls include leveraging relationship for other political issues, adopting unsubstantiated factored rates, different goals and objectives of communities, changes in communities over time, and cost sharing of common improvements.

When dealing with inter-municipal agreements, it is equally important to:

- Treat all customers equally
- Have common ownership
- Keep politics out of the decisions
- Increase number of customers to reduce the cost per customer

Always ask "Is this in the best interest of ALL customers?" ■

How Safe Are Our Bridges?

This summer's horrifying bridge collapse made our nation stop and take notice of how important our roadway system is and how the components should not be taken for granted. Bridges are put to the test daily with higher levels of traffic than designers may have anticipated and continuous exposure to weather. Regular inspection is an important tool used to identify



Suzannah Klug, Bridge Inspector

and track the condition of our bridges. Per Federal Law under the National Bridge Inspection System (NBIS) all public roadway bridges greater than 20 ft in length are to be inspected at least once every 24 months.

Bridges also are required to have load rating evaluations performed to determine their safe carrying capacity. When this capacity is found to be less than state requirements then the structure must be posted with load restrictions. Part of the inspection process is determining if new load ratings are required due to observed deterioration of the structure.

WAI performs bridge inspections in accordance with NBIS and the State of Michigan Department of Transportation Standards. In addition to the required inspections and load rating evaluations for public bridges we also perform these services for private owners and on pedestrian bridges. ■

Utility Rate Comparison...

Where do you stand?

We recently emailed or sent letters requesting water and sewer rates for an average residential user in our local communities. This comparison asked for monthly rates based on a household with ¾ meter, using 6000 gallons per month. While this criteria may not be average, we needed to set a base for this comparison. We hope that publishing this information once a year will be interesting and useful.

Thank you to those who so kindly and quickly provided your information. If there are corrections please forward this information to us so that throughout the year we can keep this information current. ■



Location	Water	Sewer
Townships		
Baroda Township	\$25.00	\$13.00
Benton Charter Township	\$25.18	\$19.59
Coloma Township	—	\$15.50
Hagar Township	\$26.54	—
Lake Township	\$ 7.80	\$13.00
Lincoln Township	\$14.84	\$16.00
New Buffalo Township	\$34.10	\$28.00
Niles Township	\$10.30	\$19.00
Oronoko Township	\$14.09	\$43.78
Royalton Township	\$14.84	\$16.00
St. Joseph Charter Township	\$14.84	\$16.00
St. Joseph Twp from B. H.	\$21.28	\$23.05
Watervliet Township	\$30.50	\$35.97
Cities		
Benton Harbor	\$14.53	\$17.91
Bridgman	\$17.40	\$52.43
Buchanan	\$16.80	\$29.28
New Buffalo	\$24.50	\$41.36
Niles	\$24.82	\$21.16
St. Joseph	\$12.90	\$16.00
Watervliet	\$30.50	\$35.97
Villages		
Baroda	\$25.00	\$13.00
Berrien Springs	\$25.65	\$63.66
Shoreham	\$14.84	\$16.00
Stevensville	\$14.84	\$16.00

The above information was provided by the municipalities. In some cases WAI used base rate information to determine the above amounts.



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