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Tight Budget Drives Use of Factory-Built Treatment Facility for Redkey, Indiana Plant Expansion

For an innovative solution the project consultant called on EFI to design an integrated, factory-built water treatment plant, doing so on a limited budget. The design uses a stand-alone aerator-filter-detention system along side an EFI modular building containing the face piping for the aerator-filter-detention system along with the high service pumps and pump controls and a second compartment for the chemical feed equipment. An emergency engine-generator set is skid mounted.



- The building was built with an open end to attach to the existing facility.
- The aluminum skid supports the building, piping and pumping equipment and the emergency generator; skid size is 38' x 11' with a 32' x 11' x 9' high building.
- The building uses steel framing and is built to IBC standards so to meet state and local code requirements.
- The chemical feed room has built-in spill containment.

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- The aerator-filter-detention system piping comes into the building for valve operation.

- High service pumps draw suction from the detention tank and pump finished water through the chemical feed room for chemical injection and out into the system.

- Pump controls, filter and well controls (all not shown) operate the system based on elevated tank level. Filter backwash is manual.

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- The aerator-filter-detention tower is shown behind the building.

- The EFI building is shown attached to the existing building.

- The building arrived on site with all mechanical, electrical and plumbing systems factory installed for ease of connection.

- Plant capacity is 320 GPM.



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