

Patriot's Pride

A North Carolina community rallies around Iraq war veteran to provide a home for their hero

By **Scottie Dayton**

On Nov. 15, 2005, U.S. Army Staff Sgt. Dale Beatty, 24, lost both legs when two anti-tank mines blew through the floor of the Humvee in which he was riding. The vehicle was pushed more than 80 feet up the road. President Bush personally awarded Beatty the Purple Heart for his injuries in Operation Iraqi Freedom.

While Beatty was overseas, financial concerns forced his wife, Belinda Summers, and their two preschool sons out of a rented house and into her parents' home. Beatty joined them in North Carolina as he worked to complete his rehab on two prosthetic legs.

Beatty's hometown, Statesville, extended overwhelming support on his return. His church, Monticello United Methodist, began collecting funds to help. Then the Iredell County Home Builders Association volunteered to

build a handicapped-accessible, three-bedroom home for the family. Beatty's father donated 1.67 acres of farmland for the 2,000-square-foot house.

Keith Loudermilt of Hughes Supply in Statesville contacted Ford Goudey at Infiltrator Systems Inc., who agreed to organize and oversee the onsite system installation and donate the chambers. Goudey asked customer Jim Lanier of Stanley Septic & Drain Service in Stanley, N.C., to install the system. Goudey then called North Carolina Septic Tank Association board members Gary Dellinger and Jimmy Shoaf, who pledged 100 percent cooperation.

"Everybody wanted to be part of the effort," says Lanier. "Donated building supplies, installation labor, and monetary contributions keep coming in to the church and Home Builders Association." Construction on the base-



Pictured (from left) are Ford Goudey from Infiltrator Systems, Jim Lanier from Stanley Septic & Drain Service, and U.S. Army Staff Sgt. Dale Beatty.

ment began in April. Lanier installed a conventional septic tank with leachfield in May. The community's goal is to complete the house by October.

Site conditions

Statesville is in west-central North Carolina, 43 miles north of Charlotte. The Beatty rural plot is on level terrain and has sandy clay loam Type III soil with a 0.30 gpd absorption rate. The maximum trench bottom is 36 inches below grade.

System components

The Iredell County Environmental Health Department designed and sized the system to handle 360 gpd. Its major components are:

- 1,000-gallon, two-compartment concrete septic tank with Polylok A300 HIP effluent filter at the outlet. (Donated by Dellinger Precast,

Denver, N.C., and Shoaf Precast Septic Tank Inc., Lexington, N.C.)

- Two Polylok distribution boxes donated by Shoaf Precast.
- Two EZ-Set risers (one per compartment) donated by EZ-Set, Lexington, N.C.
- 300 feet of Quick4 Standard drainfield chambers with eight MultiPort end caps donated by Infiltrator Systems Inc., Old Saybrook, Conn.

System operation

Sewage gravity feeds from the house through 60 feet of 4-inch PVC pipe to the septic tank. Liquid in the second compartment flows out the effluent filter to the first distribution box. Four-inch PVC piping on each side of the distribution box enters an end cap and feeds two 75-foot drainfield trenches. A third 4-inch pipe out

System Profile

Location:	Statesville, N.C.
Facility served:	Three-bedroom home.
Designer:	Iredell County Environmental Health Department, Statesville, N.C.
Installer:	Stanley Septic & Drain Service, Stanley, N.C.
Site conditions:	Sandy clay loam Type III soil with 0.30 gpd absorption rate.
Type of system:	Concrete septic tank; 300 feet of Quick4 Standard drainfield chambers from Infiltrator Systems Inc., Old Saybrook, Conn.
Hydraulic capacity:	360 gpd



After setting up the laser to shoot the grade from the home to the septic tank, they dug the trench using a John Deere backhoe and skid-steer and laid the PVC pipe. The backhoe operator then dug a seven-foot-deep hole for the septic tank, and Dellinger Precast arrived to set it. No bedding was required.

The crew then shot the outlet grade

At left, four 150-foot trenches of Quick4 Standard chambers were installed for the drainfield. Below, the septic tank is moved into position as Jim Lanier helps guide it into a seven-foot hole.



the end of the distribution box leads to a second distribution box that duplicates the first setup. The footprint of each drainfield is 75 by 105 feet. Effluent soaks directly into the soil for the final polish.

Installation

Two employees and Lanier installed the system in three hours. “We arrived early in the morning and had the site to ourselves,” he says. “It was a perfect situation. We didn’t have to fight vehicles. We were out in beautiful farmland, and everything went smoothly.”

of the tee and set the distribution boxes. The standard installation concluded with shooting the grades for the trenches, excavating them, and laying the chambers. Using the soil onsite, they shoveled it into the trenches and walked it in up to the side louvers. The chambers were then covered to grade and the area planted with grass seed.

Maintenance

Stanley Septic & Drain Service has an agreement to pump the tank every three years and service the effluent filter. “With the filters we have today

With the d-boxes, EZ-Set risers and 4-inch PVC installed, the pipe is checked to be sure it has the proper fall from the home.

and the good soil at that site, this system should last 40 to 50 years,” says Lanier. “We also don’t have to worry about root intrusion because there are no trees. As long as the homeowner doesn’t put in excessive water, the system should have a long life.” ■



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