

Encounter Innovation

GRS-IBS SHOWCASE

Showcase Date: July 12, 2016

The Black Hills National Forest and Crook County, WY are replacing 4 bridges over Sand Creek south of Beulah, WY using the accelerated bridge construction.

Geosynthetic Reinforced Soil abutments and pre-fabricated superstructures will be used to construct the bridges in days rather than months. The Federal Highway Administration (FHWA) invites you to participate in this Showcase event which will show you why these structures should be included your inventory.

LOCATION

Start the day at the Classroom Session:
Spearfish Recreation & Aquatics Center
(The Waterpark)
122 Recreation Lane
Spearfish, SD 57783

WHO SHOULD ATTEND

This Showcase is geared for owners and practitioners including local, tribal, state, and federal employees, academia, consultants, contractors, suppliers and manufacturers.

Please preregister by June 27, 2016 at the Wyoming Technical Transfer Center website:
www.uwyo.edu/wyt2/workshops/

Reserve your Showcase attendance, sack lunch, and a seat on the bus for a price of \$30.

Continuing Education Credits from the Wyoming Technical Transfer Center are available upon request at registration.

Need a question answered? Send an e-mail to:
FLHInnovation@dot.gov



U.S. Department
of Transportation
Federal Highway
Administration



WHAT IS GRS-IBS?

GRS: An engineered fill of closely spaced alternating layers of compacted granular fill material and fabric sheets of geosynthetic reinforcement.

IBS: A fast, cost-effective method of bridge support that blends the roadway into the superstructure using GRS technology. This creates a simple, joint-less interface between the bridge and the roadway alleviating the "bump at the bridge" problem caused by uneven settlement between the bridge and the approaching roadway.



ADVANTAGES

GRS-IBS offers unique advantages, particularly in the construction of small bridges.

- ◆ Construction costs are typically **25 to 60** percent lower than conventional construction methods.
- ◆ GRS IBS bridges are **easy to build** with common equipment and materials, so projects can be completed more quickly.
- ◆ They are also **easy to maintain** because they contain fewer parts: IBS is typically built without many of the elements common to a conventional bridge abutment.
- ◆ **Flexible design** that's easily modified in the field for unforeseen site conditions including unfavorable weather conditions.



AGENDA

8:30 am: Sign-in and Seating

9:00 am: GRS-IBS Classroom Session

- How simple is it to design
- Where to use it in your inventory
- What you need to know about construction

11:30 am Get on bus with a sack lunch, travel to Job Site (25 min)

3:00 pm: Buses leave Job Site to return to The Waterpark



You **MUST** bring your safety shoes, hard hat, & safety vest to visit the construction site.