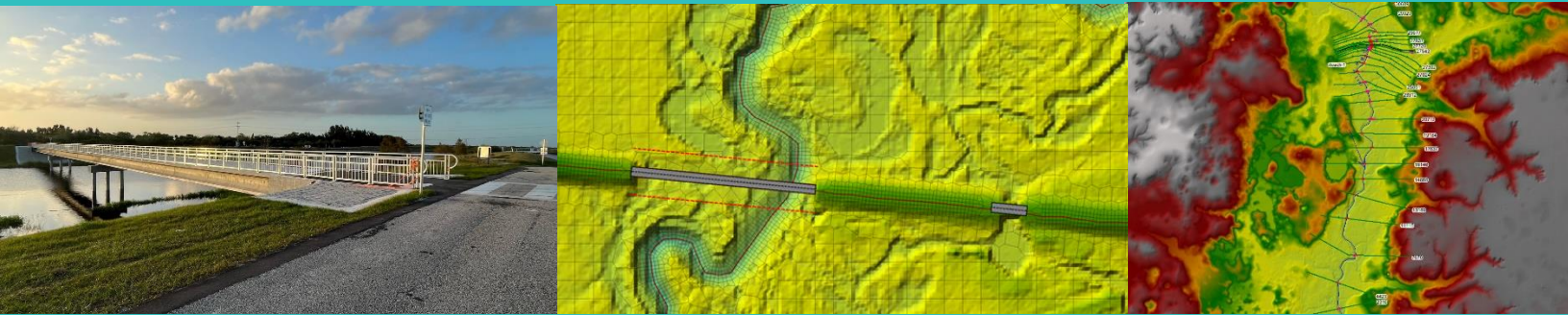




Practice Area

BRIDGE HYDRAULICS

THE KNOWLEDGE YOU NEED, THE INTEGRITY YOU TRUST™



SERVICES

- Hydrologic and Hydraulic Analyses for Bridge Projects
- Design Peak Flow Evaluation 1D or 2D Hydraulic Models Experience
- FDOT Scour Analysis Procedures Utilization
- Wildlife Crossing Expertise
- Environmentally Conscious Designs

IMPLEMENTATION

- CR 278 over Chipola River
- SR 87A New Connector Bridge over Blackwater River and SR 87A New Connector from SR 10 (US 90) to CR 191 (Munson Highway)
- SR 50 Bridge Replacement over Econlockhatchee River

And more!



Lori Stanfill, P.E. is a seasoned Chief Engineer specialized in water resources and stormwater management particularly within the realm of hydrology and hydraulics. She brings a wide variety of engineering experience spanning over 22 years. Her main area of expertise is Bridge Hydraulics, and she has prepared numerous Bridge Hydraulics Reports across Florida, being Engineer of Record on a multitude, and many of which included drainage design and permitting. She is also well versed in the preparation of FEMA No-Rise Certifications, and also has expertise in bridge scour protection and remediation for susceptible bridge locations. Lstanfill@balmoralgroup.us



Luis Cruz-Miranda, MSCE, P.E. is highly resourceful and dedicated Chief Engineer specialized in water resources and stormwater systems. Luis has a Master Degree in hydrology/hydraulics with a specialty in flash flooding. He has over 28 years of experience in Bridge Hydraulics, and his experience also includes floodplain and floodway evaluations (FEMA No-Rise Certifications), and scour analysis. Luis works with a variety of software applications including HEC-RAS (1D and 2D), HEC-HMS, HEC-SSP, SWMM, CatchmentSIM and ArcMap.



Andrea Valencia, Ph.D., E.I. is a highly dedicated engineer intern supporting Lori with bridge hydraulic analysis using HEC-RAS software. She also assists with bridge drainage layout and analysis utilizing ORD software. GIS capabilities in ArcMap include drainage infrastructure digitization and watershed hydronetwork development.

TBG DIFFERENCE

- TBG has prepared over 55 Bridge Hydraulic Reports and are recognized experts within Florida