CASE STUDY: MATTHEWS BRIDGE EMERGENCY REPLACEMENT

In September 2013, the Matthews Bridge in Jacksonville, Florida was struck by a United States Naval ship being towed to the North Florida shipyard. The geometry and stability of the bridge was compromised, requiring immediate replacement of a severed chord. The Florida Department of Transportation and RS&H team were able to complete the design and deliver the construction bid package within 76 hours of the impact. Working non-stop, the design and construction team repaired the bridge 12 days ahead of schedule, while overcoming numerous obstacles and including several innovations and unique solutions.

Jack R. Haynes, P.E.
Vice President Transportation/Infrastructure, RS&H
Will Watts, Jr., P.E.
Senior Project Manager, Transportation, Atkins

INNOVATIVE TECHNOLOGIES: CHANGING INFRASTRUCTURE

Communicate the ideas of engineering large-scale preliminary designs in the context of the built environment with this foundational session, which provides comprehensive experience with the features and benefits of both InfraWorks 360 and Civil 3D. Throughout the session, explore how to create 3D models and contract drawings for surveys, subdivisions, roads, site work, earthwork, hydrology and utility projects.

Kenneth Driscoi, Civil Application Engineer, Applied Software

STATE FUNDED TRANSPORTATION PROJECTS: HOW GEPA AFFECTS DESIGN CONSIDERATION

Funding from the passage of House Bill 170 in 2015 has released multiple major highway projects from the reins of NEPA, allowing them to finally move forward. Free from NEPA roadblocks, such as logical termini and Section 4(f), these state-funded projects will help address congestion and mobility issues throughout Georgia. In addition, the GEPA process allows greater flexibility in project design. Since impact thresholds can vary greatly between NEPA and GEPA, it is important to re-consider design decisions in areas adjacent to environmental resources. This session provides information and examples on how the GEPA process allows for more flexibility in the design of transportation facilities.

Erin Murphy, Managing Director, VHB
Patrick Smeeton, Senior Project Manager/Associate, VHB
BREAKOUT SESSION B  |  10:15 - 11:45 AM

CASE STUDY: CONSTRUCTION MITIGATION STRATEGIES

Major transportation construction projects are necessary to ensure the long-term mobility of a community. Unfortunately, construction efforts tend to negatively impact mobility in the short-term with increased traffic congestion. Many communities have started to use transportation demand management strategies to alleviate some of these issues and minimize delays.

Perimeter Community Improvement Districts (Perimeter CIDs) developed one such transportation demand management plan to help construction mitigation for the I-285/GA 400 Interchange Improvement project.

In this session, they share strategies for:
• Leveraging public-private partnerships to move projects along cost efficiently.
• Traffic congestion mitigation with large-scale construction projects, including how to measure the impact of subsidies, telework consulting and personalized travel plans.
• Measuring the impact of financial incentives and expanded commute options.

Yvonne Williams, President and CEO, Perimeter Community Improvement Districts

POWER THROUGH MICROGRIDS AND USGBC’S PEER PROGRAM

Microgrids can deliver enhanced reliability, energy and cost-efficiency, as well as environmental benefits. Reliability is critical as demands for power dependability continue to increase and consumers look for ways to strengthen their power infrastructure against the effect of natural disasters. This session covers how power generation and consumption is becoming decentralized and forming microgrids, along with key drivers and types of microgrids that are deployed at universities, commercial industrial campuses, military bases, municipalities and data centers.

In addition, learn more on the latest offering from the U.S. Green Building Council (USGBC) – PEER, which is modeled after the LEED program for buildings – and a comprehensive understanding of how to define, assess and specify sustainable power to buildings.

Christopher Evanich, Application Director of Microgrids, S&C Electric Company

STATE AND FEDERAL WATERS UPDATE

Explore the current Federal and state rules regulating streams, wetlands and stream buffers, as well as the permitting process involved with each, to help you better navigate projects.

This session provides:
• An update on the status of the changes to the Federal Clean Water Act and the implementation of the rule.
• Examples of jurisdictional and non-jurisdictional waters and the implications on the development community.
• An update on state regulations pertaining to state waters and required buffers, including recent court rulings and legislation affecting buffer requirements on state waters.
• A summary of the permitting process and requirements for both the Federal and state programs.

David Huetter, Director of Ecological Services, United Consulting
BREAKOUT SESSION C | 12:00 - 1:30 PM

CASE STUDY: ENCORE BRIDGE PROJECT
The Encore Parkway Bridge replacement and corridor improvement project in Atlanta, Georgia is a great example of multiple entities partnering to achieve a desired goal – and an end product which, once complete, will be a game-changer for the North Fulton community. Presenters will share the history of the project – beginning with the LCI study and subsequent recommendations – through the challenges the team overcame, including financial roadblocks, timing issues and design concerns, to keep the project on-schedule and now nearing completion.

Ann Hanlon
Executive Director, North Fulton Community Improvement District

Pete Sewczwicz, P.E.
Director of Public Works, City of Alpharetta

OWNERSHIP TRANSITION IN AN ENGINEERING FIRM
Do you know the pros and cons of your transition alternatives? How do you see your business in five to 10 years? Every business owner needs to know their ownership transition alternatives. Learn key takeaways and best practices for a strategic approach, including:

• Questions to ask yourself and your management team.
• Internal and external transition options.
• Market trends – to know the right time to sell from a valuation standpoint.

Michael McGinley, Director, Prairie Capital Advisors, Inc.

THE ORLANDO BELTWAY: A GEOTECHNICAL PERSPECTIVE
The design and construction of the Orlando Beltway 30 years ago was challenging. Design teams faced karst geology, construction over deep peat (more than 100-foot deep), relic sinkholes and other geotechnical challenges. As a lead engineer for many Beltway sections, Goehring uses historical information from personal files to share his perspective on design and construction of this major toll road project.

Bob Goehring, President, ECS

QUESTIONS? Contact Jennifer Head
Jennifer.Head@acecga.org | (404) 665-3539