

Agenda

Presented by Sidney May

Project Design Criteria

Design speed Traffic volume
Additional considerations

Designing Roadways

Selecting design parameters and constraints
Reviewing design guides and standards
Interstates, freeways and other four-lane highways
Arterials, collectors and locals
Urban and rural
Temporary traffic control

Design Process

Preliminary survey Schematic design
Determining right-of-way

Environmental Studies

Project planning Public involvement
Environmental controls, commitments and documents

Designing Typical Sections

Pavement Shoulders
Ditches Medians
Plan and profiles
Subsurface conditions and investigations

Horizontal and Vertical Alignment

Sight distance Horizontal alignment
Vertical alignment

Cross Sections and Earthwork

Balanced earthwork Suitable and unsuitable material

Intersections

Signalized vs. un-signalized Signal warrants
Turning movements

Hydraulic Design Considerations

Drainage calculations Designing drainage structures

Pedestrian and Bicycle Facilities

Trails, sidewalks and cross-walks
Complete streets
ADA compliance

Roadway Design

Birmingham, AL - Thursday, November 21, 2019



HalfMoon Education Inc.
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Altoona, WI 54720-0278

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Learning Objectives

You'll be able to:

Discuss roadway design criteria, including design speed and traffic volume.

Review design guides and standards for four-lane highways, arterials, collectors and locals.

Consider environmental studies and public input.

Discuss design considerations for pavement, medians, shoulders and ditches.

Explore horizontal and vertical alignment.

Add pedestrian and bicycle facilities to streets and highways.



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Discuss design criteria, including design speed and traffic volume

Review design guides and standards

Explore the design process, including preliminary surveys, right-of-way determination and schematic design

Learn about the design of pavement, medians, shoulders, ditches and intersections

Understand drainage calculations and examine the design of drainage structures

Continuing Education Credits

Professionals Engineers

7.0 PDHs

Contractors

Non-Credit Continuing Ed.



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Faculty

Sidney May, P.E.

Mrs. May is a licensed civil engineer with over 10 years of experience. Led by passion, she has secured traditional jobs and gained knowledge and experience in both the public and private sectors. Mrs. May has built her career within various aspects of transportation including roadway design, temporary traffic control design, geotechnical design and review, environmental planning and compliance, and pavement and drainage design.

Mrs. May began her career as a co-op student analyzing lidar data and assisting in conducting aerial surveys. Upon receipt of her B.S. degree in Civil Engineering from the University of Alabama, she went on to pursue a career in transportation where she has led subsurface investigations and pavement rehabilitation studies for recommendations on various pavement failure types such as full depth reclamation, lime stabilization, soil-cement stabilization, historic preservation and restoration in flexible, rigid, and masonry materials. She has been intricately involved in project scope recommendations and media press releases while working in construction stormwater. Mrs. May continued her career in environmental planning and compliance ensuring that all construction projects, both state and federal, adhered to the latest environmental laws and regulations. Consequently, she has cultivated relationships with state and federal agencies such as ADEM (Alabama Department of Environmental Management), USACE (US Army Corps of Engineers), SHPO/AHC (State Historic Preservation Office/Alabama Historic Commission), and US Fish and Wildlife. She has led training seminars on the importance of temporary traffic control and she believes that successfully-managed projects all start and end with competence, confidence, and communication amongst all individuals involved in project management and completion.

Mrs. May is currently an active member of ASCE (American Society of Civil Engineers) where she holds a branch leadership position. She is also working to help establish a coalition for the Alabama Dam Safety Program. Mrs. May is also active in her community, serving as an advisory board member to local engineering academies and mentoring local high school students, motivating them to pursue careers in engineering.

Seminar Information

Birmingham Marriott

3590 Grandview Pkwy.
Birmingham, AL 35243
(205) 968-3775

Registration
8:00 - 8:30 am
Morning Session
8:30 am - 12:15 pm
Lunch (on your own)
12:15 - 1:15 pm
Afternoon Session
1:15 - 5:00 pm

Tuition

\$289 for individual registration
\$269 for three or more registrations.

Each registration includes a complimentary continental breakfast and printed seminar manual.

Receive a reduced tuition rate of \$101 by registering to be our on-site coordinator for the day. For availability and job description, please visit www.halfmoonseminars.org.

How to Register

- Visit us online at www.halfmoonseminars.org
- Mail-in or fax the attached form to 715-835-6066
- Call customer service at 715-835-5900

Cancellations: Cancel at least 48 hours before the start of the seminar, and receive a full tuition refund, minus a \$39 service charge for each registrant. Cancellations within 48 hours will receive a credit toward another seminar or the self-study package. You may also send another person to take your place.

Continuing Education Credit Information

This seminar is open the public and offers 7.0 PDHs to professional engineers in all states. Educators and courses are not subject to preapproval in Alabama.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida, Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24GP00000700), North Carolina, and North Dakota. HalfMoon Education is deemed an approved continuing education sponsor for New York engineers.

This program offers a non-credit continuing education opportunity to Alabama construction contractors. It has not been submitted to any state contractor licensing entity for course approval.

Attendance will be monitored, and attendance certificates will be available after the seminar for most individuals who complete the entire event. Attendance certificates not available at the seminar will be mailed to participants within fifteen business days.

Can't Attend? Order the Manual and Audio from the Live Seminar as a Self-Study Package!

Audio recordings of this seminar are available for purchase starting at \$269. See registration panel for more information and please refer to specific state licensing rules or certification requirements to determine if this learning method is eligible for continuing education credit.

Additional Learning

Webinar Series

National Electrical Code

- **National Electrical Code, Part I**
Tues., October 22, 2019, 11:00 AM - 3:30 PM CDT
- **National Electrical Code, Part II**
Wed., October 23, 2019, 11:00 AM - 3:30 PM CDT
- **National Electrical Code, Part III**
Thurs., October 24, 2019, 11:00 AM - 3:30 PM CDT

Slope Stability and Landslide Prevention

- **Slope Movement and Mechanisms**
Thurs., October 24, 2019, 11:00 AM - 1:00 PM CDT
- **Slope Stabilization Methods**
Thurs., October 24, 2019, 1:30 - 3:00 PM CDT
- **Landslide Hazard and Risk Assessment**
Fri., October 25, 2019, 11:00 AM - 12:00 PM CDT
- **Slope Stabilization and Landslide Mitigation**
Fri., October 25, 2019, 12:30 - 2:30 PM CDT

HEC-RAS Webinar Series

- **Hydraulic Principles and Applications**
Tues., October 29, 2019, 11:00 AM - 1:00 PM CDT
- **Working with the HEC-RAS User Interface**
Tues., October 29, 2019, 1:30 - 3:00 PM CDT
- **Water Surface Profiling**
Thurs., October 31, 2019, 11:00 AM - 1:00 PM CDT
- **Steady Flow Surface Profile Demonstrations**
Thurs., October 31, 2019, 1:30 - 3:30 PM CDT

Tree Preservation

- **Concrete and Pavement Design Principles**
Wed., October 30, 2019, 11:00 AM - 12:00 PM CDT
- **Exterior Concrete Pavement Design**
Wed., October 30, 2019, 12:30 - 3:15 PM CDT
- **Interior Concrete Slabs-on-Ground Design**
Thurs., October 31, 2019, 11:00 AM - 1:00 PM CDT
- **Concrete and Pavement Maintenance and Sustainability**
Thurs., October 31, 2019, 1:30 - 3:00 PM CDT

Distributed Batteries for Solar PV Systems

- **Distributed Batteries for Solar PV Systems, Part I**
Wed., November 6, 2019, 11:00 AM - 2:15 PM CST
- **Distributed Batteries for Solar PV Systems, Part II**
Thurs., November 7, 2019, 11:00 AM - 2:15 PM CST

Complying with ADA Standards for Accessible Design

- **Complying with State & Federal Accessibility Requirements**
Thurs., November 7, 2019, 11:00 AM - 1:30 PM CST
- **Applying the 2010 & A117.1 Accessibility Standards**
Fri., November 8, 2019, 11:00 AM - 1:30 PM CST

For more information visit:
www.halfmoonseminars.org/webinars/

Registration

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How to Register	Registrant Information
Online: www.halfmoonseminars.org	Name: _____ Company/Firm: _____ Address: _____ City: _____ State: _____ Zip _____ Occupation: _____ Email: _____ Phone: _____
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Mail: HalfMoon Education Inc., PO Box 278, Altoona, WI 54720-0278	
Complete the entire form. Attach duplicates if necessary.	
Email address is required for credit card receipt, program changes, and notification of upcoming seminars and products. Your email will not be sold or transferred. () I need special accommodations. Please contact me.	

Tuition

- () **I will be attending the live seminar.** Single Registrant - **\$289.00**. Three or more registrants from the same company registering at the same time - **\$269.00** each.
- () **I am not attending.** Please send me the self-study package:
- ☐ Downloadable MP3 Audio/PDF Manual for **\$269.00**.
☐ CD/Manual Package for **\$289.00**. ☐ USB/Manual Package **\$289.00**.
(Please allow four weeks from seminar date for delivery)

Checks: Make payable to HalfMoon Education Inc.

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