

# 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
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### Intersections

Signalized vs. un-signalized	Signal warrants
Turning movements	

### Hydraulic Design Considerations

Drainage calculations	Designing drainage structures
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### Pedestrian and Bicycle Facilities

Trails, sidewalks and cross-walks	
Complete streets	ADA compliance

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## Roadway Design

Live, Interactive Webinar - Monday, May 22, 2023



HalfMoon Education Inc.  
PO Box 278  
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.



## HalfMoon Education Live Webinars

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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

#### Professional Engineers

7.0 PDHs

#### Certified Planners

CM | 7

#### Landscape Architects

7.0 HSW CE Hours

7.0 LA CES HSW PDHs



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# Faculty

**Sidney May** is a multi-state licensed professional civil engineer with over 15 years of work experience in transportation design and construction, civil site design, and environmental planning and compliance. She is the president and principal engineer of her own woman-owned small business (WOSB) Engineering Firm. Sidney attended the University of Alabama and holds a B.S. degree in Civil Engineering. Her areas of expertise include public works processes for local, state, and federal projects; designing and managing capital improvements projects; developing project scope documents; creating project estimates and budgets; preparing design drawings; developing specifications for bidding purposes; and managing projects during construction. Sidney develops course curriculums and instructs PDH seminars and professional engineering exam review courses. She volunteers with local engineering academies and S.T.E.A.M. programs and serves as a professional mentor for Civil Engineering students at the University of Alabama. Sidney recently served as the Birmingham Branch Director of the American Society of Civil Engineers (ASCE) and is on the National Policy Committee for Professional Licensure.

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Morning Session 8:30 am - 12:30 pm CDT	Afternoon Session 1:15 - 5:00 pm CDT

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# Additional Learning

**NPDES Stormwater Management Program 2023**  
- Thurs, April 20, 2023 | 9:00 am - 4:00 pm CDT

**International Green Construction Code (IgCC) 2021**  
- Tues, April 25, 2023 | 11:30 am - 2:45 pm CDT  
- Wed, April 26, 2023 | 11:30 am - 3:15 pm CDT

**Stormwater Basins and Underground Systems**  
- Fri, April 28, 2023 | 8:30 am - 4:00 pm CDT

**Innovative Private Onsite Wastewater Treatment Systems**  
- Mon, May 1, 2023 | 9:00 am - 5:00 pm CDT

**2021 International Building Code: Special Inspections and Construction Safeguards**  
- Wed, May 3, 2023 | 12:00 - 4:30 pm CDT

**Construction Contract Workshop**  
- Mon, May 8, 2023 | 11:00 am - 2:45 pm CDT  
- Tues, May 9, 2023 | 11:00 am - 2:45 pm CDT

**Drones in Construction**  
- Mon, May 8, 2023 | 9:30 am - 4:50 pm CDT

**Engineering Ethics and Consequences**  
- Mon, May 8, 2023 | 1:00 - 2:00 pm CDT

**How to Identify Soil Types**  
- Tues, May 9, 2023 | 10:00 am - 12:00 pm CDT

**Current Issues in Interior Design**  
- Wed, May 10, 2023 | 9:00 am - 4:00 pm CDT

**International Building Code 2021**  
- Wed, May 10, 2023 | 8:30 am - 4:30 pm CDT

**Introduction to HEC-HMS Modeling**  
- Thurs, May 11, 2023 | 9:00 am - 4:30 pm CDT

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Attendance will be monitored, and attendance certificates will be available after the webinar for those who attend the entire course and score a minimum 80% on the quiz that follows the course (multiple attempts allowed).

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7.0 HSW PDHs (LA CES)

# Registration

**Roadway Design**  
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