

HalfMoon Education Live Continuing Education Webinars

Texas Pavement Design, Construction and Maintenance

Online - Thursday, September 15, 2022 | 8:30 am - 4:00 pm CDT

Credits: Professional Engineers: 6.5 PDHs Architects: 6.5 HSW CE Hours

AIA: 6.5 LU | HSW Landscape Architects: 6.5 HSW CE Hours LA CES: 6.5 HSW PDHs

International Code Council: .65 CEUs (Sitework)

Texas Stormwater Management 2022

Online - Thursday, September 29, 2022 | 8:30 am - 5:00 pm CDT

Credits: Professional Engineers: 7.0 PDHs Architects: 7.0 HSW CE Hours

AIA: 7.0 LU | HSW Landscape Architects: 7.0 HSW CE Hours LA CES: 7.0 HSW PDH

Floodplain Managers: 7.0 ASFPD CECs International Code Council: .7 CEUs (Sitework)

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Principles of Pavement Design

Goals of pavement design

- Smooth, stable surface and longevity

Terminology and basic components

- Pavement section
- Asphalt and concrete components
- Loading

Consulting guidelines and standards

Collecting data necessary for design

Economics and lifecycle analysis

Pavement distresses

Private Roadway Pavement Design (Flexible and Rigid)

Soil support and subsurface preparation

Mixture content and pavement thickness

- Flexible pavement
- Rigid pavement

Commercial Site Pavement Design (Flexible and Rigid)

Flexible pavement

Rigid pavement - joint design

Maintenance and Rehabilitation

Goals

Reclamation and recycling

Preparing and overlaying existing pavements

Preservation techniques

Rehabilitation practices

Sustainability of Pavements

Pervious pavements

Designing specific elements

Design of parking lots and driveways

Design of shared-use pavements

Design of sidewalks, paths and walkways

Presented by Tyler Speakmon, Ph.D.

Senior paving engineer and senior infrastructure engineer at CEMEX

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Texas Stormwater Management 2022

Thursday, September 29, 2022 | 8:30 am - 5:00 pm CDT

Understanding Stormwater Permit Requirements

and Procedures

Background and development of national and state regulations and permit requirements:

- Federal Clean Water Act and Texas stormwater rules

Activities exempt from construction general stormwater permit requirements

Complying with NPDES and Texas Commission

on Environmental Quality (TCEQ) requirements

- Notice of intent requirements
- What the permit covers and does not cover
- Application process
- General requirements and standard conditions
- Implementing, monitoring and assessing stormwater pollution prevention plans (SWPPPs)

Understanding and Applying the Science of Stormwater

Hydrology, soil science and drainage

Identifying consequences of storm events

Stormwater modeling

Runoff reduction, routing and storage

Infiltration and percolation

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Choosing Appropriate Stormwater Best Management Practices

(BMPs)

Stormwater management planning

Sizing criteria

Green infrastructure practices

- Preservation of natural features and conservation design
- Reducing impervious cover

Green management techniques

- Conservation of natural areas
- Detention/retention ponds
- Riparian buffers and filter strips
- Vegetated swales
- Disconnected runoff
- Stream daylighting
- Rain gardens
- Green roofs
- Stormwater planters
- Rain barrels/cisterns
- Pervious pavement

Developing Stormwater Pollution Prevention Plans (SWPPP)

Including required elements

Assessing building sites

Choosing best management practices (BMPs)

Planning for required inspection, maintenance and recordkeeping

Obtaining plan certification

Implementing SWPPPs

Developing Plans for Inspection, Monitoring,

Maintenance and Recordkeeping

Understanding the science and terminology of stormwater management and monitoring

Implementing monitoring plans

Reviewing stormwater BMP case studies

Presented by Brad Flack, CPESC, CESSWI, QCIS

President & CEO of Integrity Stormwater