

CSI THE SPECK

Knoxville Chapter

The Construction Specifications Institute

CSI KNOXVILLE CHAPTER MEETING TUESDAY, FEBRUARY 11TH

ODD FELLOWS CEMETERY

HELPING A COMMUNITY REDISCOVER ITS HERITAGE

Presented By: **Katherine Ambroziak**, Associate Professor, Associate Dean for Academic Affairs
and Research School of Architecture 865.974.3270 aambrozi@utk.edu

**1LU
AIA**



CALHOUN'S ON THE TENNESSEE RIVER

400 Neyland Drive
Knoxville, TN 37902
(865) 673-3355

Our Chapter meetings are generally
on the 2nd Tuesday of each month
and are at Calhoun's on the River in
one of the upstairs meeting rooms.



Lunch
Seminar

11:30 am
12:00 pm

\$0 CSI Members
\$0 First-Time Guest
\$20 Returning Guest/
Non-Members

Please RSVP to csiknox@gmail.com by 3:00 pm on Monday, February 10th

ORGANIZED SEPTEMBER 1958 - CHARTERED MAY 1959

THE KNOXVILLE CHAPTER MEETS ON THE SECOND TUESDAY OF EVERY MONTH. GUESTS ARE WELCOME!



**CSI KNOXVILLE IS A
MEMBER OF THE CSI
GULF STATES REGION**

THE SPECK Editor

Stacy Flick Colbaugh - Editor
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THE SPECK is published monthly by the Knoxville Chapter of the Construction Specifications Institute. Readers are encouraged to submit articles and images of the construction industry interest for our membership. All submittals should be sent via e-mail in a typical file format, such as .pdf, .docx, or .jpg. Please verify the accuracy of the information such as correct dates, spelling, and grammar. Deadlines are the 25th of each month.



KNOXVILLE CHAPTER: FEBRUARY 2020

52 PROFESSIONAL
1 EMERGING PROFESSIONAL
2 STUDENT
2 EMERITUS
2 RETIRED
59 TOTAL



CALENDAR OF EVENTS

FEBRUARY 2020

- 04** **CSI Board Meeting** - Tuesday, February 4th,
Lunch meeting from 12:00 pm - 1:00 pm
Location: Lewis Group Architects
6512 Deane Hill Drive, Knoxville, TN 37919
- 11** **CSI Chapter Meeting** - Tuesday, February 11th,
11:30 am at Calhoun's on the River "Odd Fellows
Cemetery, East Knoxville" Katherine Ambroziak
Associate Dean for Academic Affairs and
Research

MARCH 2020

- 03** **CSI Board Meeting** - Tuesday, March 3rd,
Lunch meeting from 12:00 pm - 1:00 pm
Location: Lewis Group Architects
6512 Deane Hill Drive, Knoxville, TN 37919
- 10** **THE EAST TENNESSEE CSI BUILDING PRODUCTS
SHOW 2020** - Tuesday, March 10th,
at The Foundry Knoxville, TN.

Seminar: Ann McGauran, TN State Architect,
Credit: 1 LU HSW

Please Register by 3:00 pm on Monday, March 9th.

SEMINAR REGISTRATION

EAST TENNESSEE BUILDING PRODUCTS SHOW

Tuesday
**MARCH
10**

**SAVE
THE
DATE!**



THE PRESIDENT'S MESSAGE

SAVE THE DATE: PRODUCT SHOW!

Mr. Geoffrey Cavalier, CSI,
Assoc. AIA, NCARB
CSI Knoxville Chapter President
cavaliergeoffrey@gmail.com



Next month, on March 10th, The CSI Knoxville Product Show will be at The Foundry. If you are interested in reserving a booth for this event, there may be just a few booths available! The product show is a great way for product reps to exhibit their company and products in front of Knoxville's contractors, architects and other designers. Of course, the invert is true that if you are someone who specifies, draws, installs, or constructs building products, this is a great opportunity to see what new products are out there and be able to ask questions in person.

This event also features TN State Architect, Ann McGauran, as the keynote speaker. This is an opportunity to hear what the state of Tennessee has planned concerning architecture and construction, as well as an opportunity to ask questions.

This is probably CSI Knoxville's largest event. It is free and you don't have to be a member to attend. There will be free food and plenty of door prizes. I always enjoy the opportunity to bump into colleagues I haven't seen in a while and even meet new people. I hope to see you there!

Mr. Geoffrey Cavalier, CSI, Assoc.
AIA, NCARB
CSI Knoxville Chapter President
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CSI HIGHLIGHTS

Have you are considered participating in the upcoming CSI Product Show? It is coming up on March 10th at the Foundry in Downtown Knoxville.

As you are aware, this annual highly trafficked event is the only Building and Architectural Product show in our area that draws many members of the design and construction community in our area. This year keynote speaker for the event, is Tennessee State Architect, Ann McGauran, which she will be speaking prior to the Product Show at 3:30pm – 5:00pm.

Please see the link below for a Vendor Booth Application and floor plan layout of the space. You can mail a check or you can register and pay via credit card on the Knoxville-Chapter website <https://csiknoxville.org/exhibitors>.

I hope that you can attend as an exhibitor representing your company and even consider joining this professional organization. More details on the web site at <https://csiknoxville.org/>

If you are interested in participating or have any questions, please feel free to contact Josh Brock who is organizing the Product Show. He can be reached via email at joshua.brock@generalshale.com or by phone at (865) 388-1833.

As always it is going to be a fabulous event and we would appreciate your help in participating and spreading the word.

March 10, 2020

East Tennessee Building Products Show



PRESENTATION SUMMARY

KATHERINE AMBROZIAK ODD FELLOWS CEMETERY RECLAMATION INITIATIVE

Katherine Ambroziak's research examines how designers and users become conscious of their built and natural environment and what this may mean to the generation of healthy perceptions and memory. She focuses on spatial theory related to sensory response and body perception, ritual theory, and contemporary memorial theory.

A licensed architect in the State of Tennessee, she is active in community engagement as both an academic and civic pursuit. Since 2009, she has served as the primary designer and coordinator of the Odd Fellows Cemetery Rehabilitation Project, a conservation and reclamation initiative that aims to educate and support the communities of East Knoxville through the design and future implementation of a sustainable memorial landscape.

Learning objectives:

- To understand the goals of memorial landscape design;
- To explore a community-informed effort to restore/reclaim a neglected public space based on these goals;
- To explore both typical and out-of-the-box methods of community engagement;
- To gain an appreciation for "slow" progress.

A. Katherine Bambrick Ambroziak
Associate Professor and Associate Dean for Academic Affairs and Research
College of Architecture and Design
University of Tennessee Knoxville

Odd Fellows Cemetery Reclamation Initiative, Project Coordinator
Knoxville Re-Animation Coalition, Advisory Board

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CSI TECHNICAL

WHAT I LEARNED FROM CSI...

SAVE THE INTERNET! DATA CENTER FIRE SUPPRESSION SYSTEMS

MR GARY T. BERGERON, CSI
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CSI Knoxville Technical Chair
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Most of us use GPS mapping systems, cloud data storage, Siri, Google, or Alexa, but how many of us think about the computer data centers that make these systems possible? Busy making our life easier, these centers contain computers and storage devices worth millions of dollars. Clean agent fire suppression systems, or other fire prevention systems, protect the data centers from fire so repair or replacement of the computer systems is possible.

In the past, fire suppression systems used an ozone depleting gas called Halon 1301 which, in 1994, was discontinued and replaced by environmentally friendly



Clean agent gas cylinders
<https://www.indiamart.com/proddetail/halon-fire-extinguisher-15943312262.html>

clean agent gases. These new gases are non-conductive, non-corrosive, and leave no residue; which can prevent costly downtime in data centers. Some common gases are Inergen, ECARO FE-25, Fike's FM 200, and 3M's Novec 1230; however, many still refer to the new suppression systems as Halon.

Clean agent gases work by saturating the room, breaking the chemical reaction fire needs, and extinguishing the fire. The saturation level required to extinguish a fire



Computer Data Centers
<https://videohive.net/item/servers-racks-walkthrough-in-modern-data-center-cloud-computing-datacenter-room/23431227>



Clean Agent Gas Discharge

<http://keystonecsa.com/Blog/DataCenter/6/Preventing-accidental-clean-agent-discharge-within-a-data-center>

requires a sealed room to prevent escape of the fire suppression gas. All network cables, electrical conduit, HVAC ductwork, and other room penetrations are sealed airtight with caulk, duct dampers, or other approved methods. Entry doors into the facility are also equipped with door gaskets to contain the clean agent gas. After all the penetrations and doors are sealed, a blower door test is performed to verify the air-tightness of the room. If the data center room is large enough, a one- or two-way vent, specifically designed for the gas, will be installed to alleviate the pressure generated by the gas discharge. Damage of walls or the room may result if an improperly designed vent is installed.

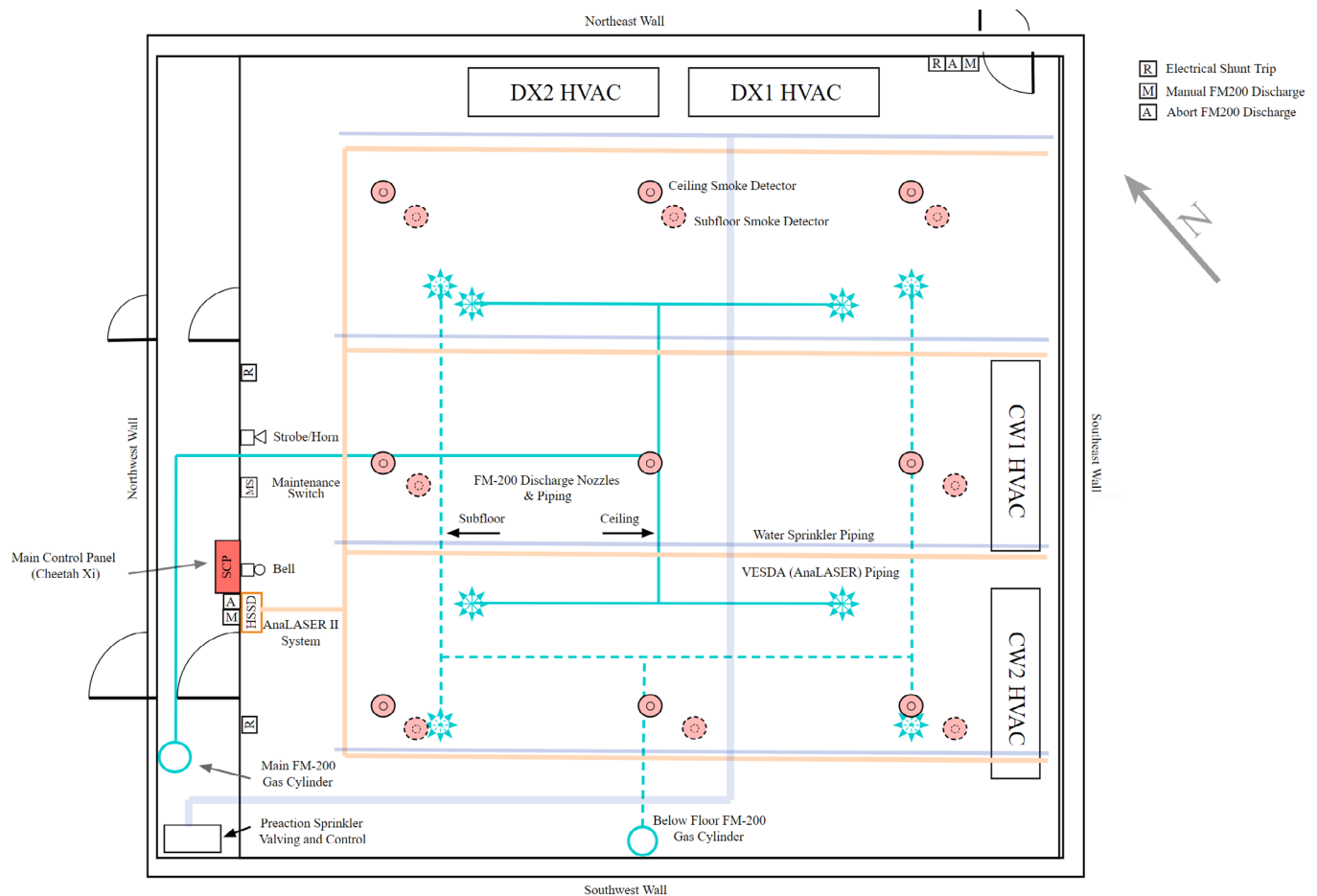


Improperly Vented Room

<http://keystonecsa.com/Blog/DataCenter/15/Room-Pressurization-The-Other-Component-of-a-Data-Centers-Clean-Agent-Fire-Protection-System>



Clean agent manual release and abort switch
<http://www.aoc.nrao.edu/widar/subsystems/fire/>



Data Center Schematic Diagram
<http://www.aoc.nrao.edu/widar/subsystems/fire/>

The volume of the computer room dictates the size of the gas cylinders and/or the required distribution piping. Small data rooms can be protected by a 50 lb. gas cylinder, in a corner, with one nozzle. Larger and more complicated data centers require several 300 lb. or 500 lb. gas cylinders. This distribution piping system includes multiple nozzles in the room and below the raised access floor. Refilling multiple gas cylinders can be expensive. Most suppression systems require many heat detectors and/or smoke detectors to report a fire before the gas discharges. There is usually a short time delay, of 5 to 10 seconds, before the gas discharges so personnel can exit the area. Some data center fire suppression systems are equipped with an abort switch to prevent accidental discharge.

The photos and schematic diagram below illustrate noteworthy features of a data center fire suppression system. If you need further information, please come to the next local CSI chapter meeting to discuss this and other building systems.

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March 10, 2020

East Tennessee Building Products Show

3:30pm - 7:00pm

**Foundry on The Fair Site
747 World's Fair Park Dr
Knoxville TN 37902**

**Bring your friends, learn what's
new with our keynote speaker,
eat, drink,
and have a one on one with
amazing product reps!**

Everyone in the Design and Construction Industry is invited to this free event!



Keynote Speaker

Ann McGauran

Tennessee State Architect



Ann is an Architect with over 25 years of architectural, project management and real estate operations experience, primarily with large multi-facility institutions. Ann has served in a variety of real estate roles for the State of TN since 2013 and was unanimously appointed as State Architect by the Tennessee State Building Commission (SBC) in 2017. As the chief staff officer of the

SBC, Ann provides real estate expertise on capital projects and transactions affecting the States ~90 million sq. ft. and ~900, 000 acre portfolio. Ann graduated from Auburn University with a Bachelor of Architecture and received a Master's in Healthcare Management from Owen School of Business at Vanderbilt University. Ann is NCARB certified and earned her initial architectural licensure from Florida and is currently licensed in Tennessee.

Ann, her husband Mick and their two sons Sean and Liam, live in Nashville.

March 10, 2020

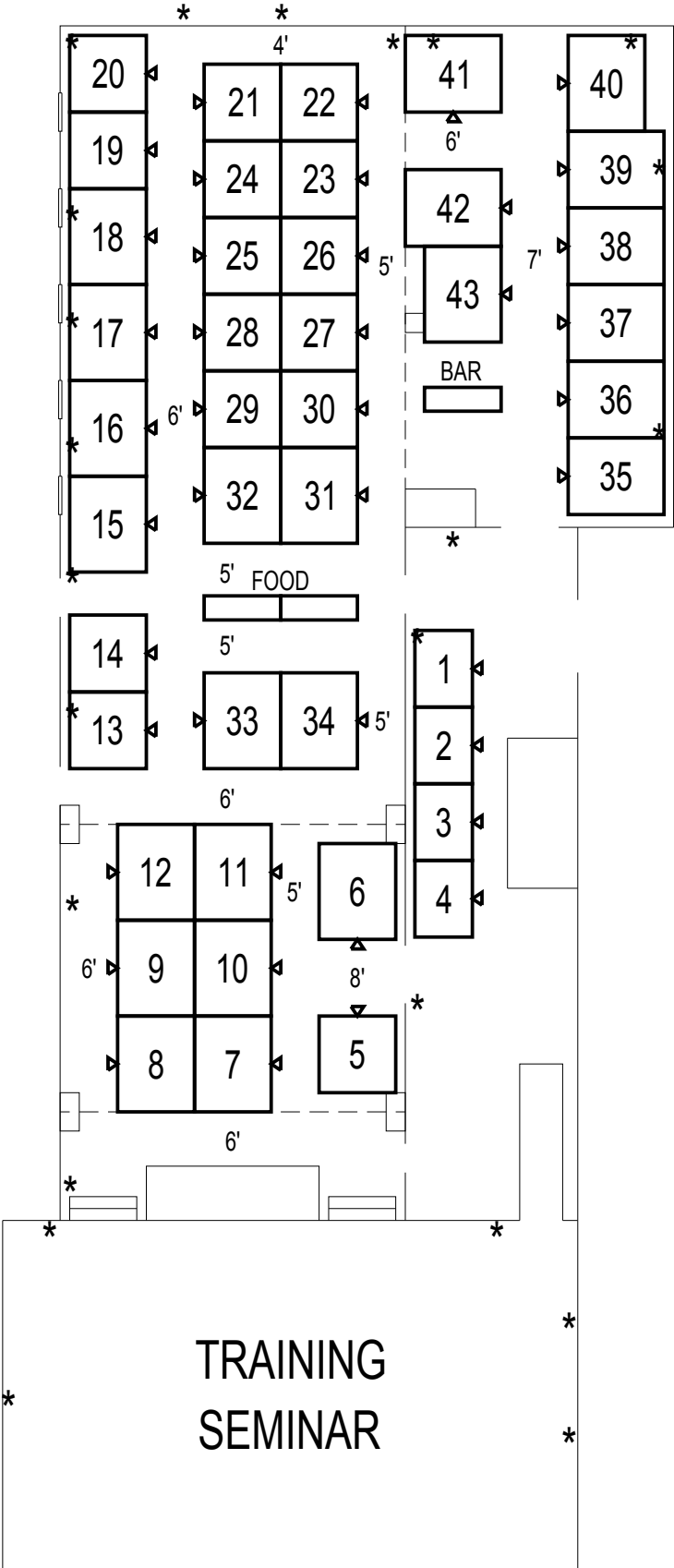
East Tennessee Building Products Show

Check in:	3:00 - 3:30 pm
Keynote Speaker:	3:30 - 5:00 pm
Exhibits	5:00 - 7:00 pm
Hors D'oeuvres	5:00 - 7:00 pm
Hosted Beer & Wine Bar	5:00 - 6:30 pm

<https://csiknoxville.org/>



2020 ETN BUILDING PRODUCTS SHOW



43 TOTAL BOOTHS

(19) 8'x8' BOOTHS / (24) 8'x10' BOOTHS

A GUIDE TO CONSTRUCTION CONTRACTS & EXECUTION METHODS

By Ms. Susan Davis, RA, CSI, CDT, PMP
babydavis111603@aol.com

At CONSTRUCT 2019, Antonio Fratangelo and Jake Ortega of JA Cost Engineers and Advisors gave a presentaion on contracts and execution methods.

This is a summary as understood by Susan Davis.

Construction execution methods can be:

Lump sum

Cost plus / GMP

Unit pricing

T&M

Earned value

Cooperative design (DB, IPD)

Each has its own merit and are appropriate for different types of work.



Methods can be blended in the same contract. Such as a lump sum contract with cost plus change orders. Be sure to define to what degree these terms apply. For instance, if you have a T&M contract, are you going to require subcontractors to submit actual cost or will you allow a lump sum bid from subs?

Lump sum, unit price, and earned value are reimbursed based on amount of complete work. The pay application is not tied to the amount the contractor has actually spent.

Cost plus and time and material are different. In cost plus, there is actual cost for materials, labor, general conditions, and a multiplier for overhead and profit. T&M establishes a rate that includes general conditions and overhead and profit.

Cost plus/T&M with a GMP has evolved as a way to even out risk between owner and contractor. Cost plus or T&M without a max favors the contractor. Lump sum favors the owner. GMP puts both parties at risk.

Integrated project delivery (IPD) is emerging as a trend to manage risk cooperatively. The designer, construction manager (CM), subs, and owner set aside part of the budget or fee which is split at the end of the project.

CM language in contracts is really similar to the legal definition of fiduciary responsibility. This means they must put the owner's well being ahead of their own. This can cause internal conflict when the CM is actually a general contractor.

4: Deciding on the Right Execution Method

		Owner Risk		Contractor Risk
Cost Plus or T&M without Cap	Engineering and design services, repair, maintenance, or overhaul, emergency situations	High	Low	
Cost Plus or T&M with a Cap or GMP	Less defined scope and drawings	Medium	Medium	
Lump Sum	Well defined scope and drawings	Low	High	

*Unit Pricing is for Projects with repetitive units that can be easily measured

Even though we usually start a contract from a template (AIA, Consensus Docs, etc), be aware that they are templates. They require you to edit them to fit your project. Some areas that you may want to pay special attention to:

- Order of precedence
- Work breakdown structure
- Changes (units predefined)
- Reporting
- Trending and forecasting
- Allowable general conditions
- Calculation of multipliers
- Self performed work

A handy addition can be a matrix that shows if items are overhead, general conditions, or project cost. Also include examples of how multipliers are calculated mathematically.

Understand what errors and omissions really are. Errors require rework. Omissions are essential parts that were left out.

Some areas where you may find conflicts:

- Division 01
- Exceptions and clarifications
- Value engineering

Our aim in CSI is always to be clear, correct, complete, and concise.

*Ms. Susan Davis, RA, CSI,
CDT, PMP
CSI Knoxville Chair: Bylaws
and Operating Guide*



MEMBER SPOTLIGHT

CSI MEMBER WHITNEY KAUL JOINS TENNESSEE LIGHTING SALES

Whitney Kaul, CSI, IIDA, LEED
GA, Joins Tennessee Lighting
Sales



Knoxville CSI member Whitney Kaul has joined Tennessee Lighting Sales as their Outside Specification Sales Representative for the Knoxville office. Whitney acquired her associates degree in Civil Engineering and bachelor degree in Interior Design from East Tennessee State University in 2008 through their joint program with Pellissippi State. After working the past few years in interior design practice, she earned her Tennessee registration in Interior Design.

When asked what scope of projects that Tennessee Lighting Sales supports, she replied, "I am involved in a variety of projects from residential, education, healthcare, hospitality, industrial and roadway. I support architects, interior designers and electrical engineers by helping them with whatever lighting needs that they have with their projects. We can help with any projects that has lights."

Whitney has been a member of CSI since 2015. She explained how CSI has impacted her in the design and construction profession. "CSI has been a big asset to me in the profession. I have found a family within the building community that supports each other. CSI Knoxville is a group of people that I can go to for advice on a particular project and also for overall professional advice. The Knoxville chapter is a very welcoming group of people who always want to see you and the chapter succeed. They truly care about each other."

Whitney has been a tremendous asset to our chapter. She currently serves as treasurer and manages to keep us financially sound.

You can meet Whitney and see what Tennessee Light Sales has to offer at the East Tennessee Building Products Show 2020 on March 10 at the Foundry on the World's Fair site.



HINDSIGHT

PHOTOS FROM JANUARY CHAPTER MEETING

Photos by Stacy Colbaugh, CSI, CDT, AIA



CSI GULF STATES REGION LEADERS – 2019-2020

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Mr. Williams Whitt, CSI
Mr. Brent Williams, CSI, CDT



Membership has its benefits

Your CSI member benefits include generous discounts on CSI standards and formats such as ***MasterFormat 2016 Update***, as well as discounts on numerous resources to assist you in the preparation of specifications, as well as other construction documents.

Not a CSI Member? Join Today!
Go to www.csiknoxville.org

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