



MABCD CONSTRUCTION INDUSTRY NEWSLETTER

Issue 47—April 2025 <https://www.sedgwickcounty.org/mabcd/mabcd-newsletter/> Chris Nordick - Editor

Get all of your latest MABCD news each month right here with the MABCD newsletter

Administration -

APRIL 3RD, 2025 BEGINNING AT 4:00 PM

**HANSEN AND PROJECT DOX (EPLANS) WILL BE UNDERGOING
MAINTENANCE AND WILL BE UNAVAILABLE UNTIL**

8:00 AM ON APRIL 4TH

All functions will be unavailable during this time.

If you have questions, please contact MABCD at 316-660-1840 or
MABCD@sedgwick.gov.

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Special points of interest

- Hansen Maintenance.
- Sheathing required for roofs.
- Alternative Energy Interconnection.
- Group A2L, A2, A3 and B1 High-probability equipment.
- NWWTF.
- Protection from cross-contamination.
- Hazard Tool—Design Loads.
- Luminous Egress Path markings.
- Advisory Board calendar.

Building Division

Sheathing Requirements for Roofs

R905.2.1

Asphalt shingles shall be fastened to wood structural panels or solid lumber sheathing

The IRC, Section R905.2.1 states, “The installation of asphalt shingles shall be fastened to solidly sheathed decks.”

The intent of this section is to ensure all fasteners placed through the shingle penetrate into a solid surface in order to securely hold the shingle in place during windy periods. There is no way to verify that the fasteners did not go into the spaced gap between the spaced boards over the rafters.

When inspecting the finished roofing installations from the attic space, the one-by boards are often splintered at the edges, broken at existing knots, or the fasteners were placed within the gapped areas between the boards.

This is the basis that MABCD requires solid sheathing installed over the top of the existing spaced sheathing. Many manufacturers require this also in their manufacturer’s installation instructions as well.



Electrical Division -

Please visit our website for more information: [Electrical, Elevator, & Alarm Division](#)

New Options for Alternative Energy Interconnection

For the April edition of the MABCD Newsletter, we will discuss :

Meter Socket Adaptors have now been approved by Evergy and MABCD for use in Sedgwick County. Meter Socket Adaptors simplify the connections of alternative energy and provide a less expensive option for connecting Solar, EV chargers and Generators to the utility grid.

These meter socket adaptors shall be installed by an MABCD licensed electrical contractor, and shall be permitted and inspected for proper type and size for the installation.



Mechanical Division -

Please visit our website for more information: [Mechanical Division](#)

High-Probability Equipment using Group A2L, A2, A3 and B1 Refrigerants

2024 IMC Code Text:

1101.2.1 Group A2L, A2, A3 and B1 high-probability equipment. High-probability equipment using Group A2L, A2, A3 and B1 refrigerant shall comply with UL 484, UL/CSA 60335-2-40 or UL/CSA 60335-2-89.

Change Significance: Refrigerants are classified in accordance with ASHRAE 34. Each refrigerant is classified based on safety classifications for toxicity and flammability.

The toxicity classification is either A (lower toxicity) or B (Higher toxicity). With respect to flammability, a total of four classifications exist.

Class 1 refrigerants do not propagate a flame when tested, Class 2 refrigerants and Class 3 refrigerants have a higher flammability. The Class 2 refrigerants have a sub-classification “2L” which consist of the lower flammability refrigerants that are difficult to ignite. Examples of A2L refrigerants include R-1234yf, R-1234ze(E), R42, R-452B, R-454A and R-454B.

The introduction of the new provisions for the intermediate flammable A2L refrigerants is provided due to the expected increase in the use of A2L refrigerants as a substitute for hydrofluorocarbon (HFC) refrigerants, which are greenhouse gases that are being phased out.

ASHRAE 34

Increased flame propagation ↑	Higher Flammability	A3	B3
	Flammable	A2	B2
	Lower Flammability	A2L	B2L
	No Flame Propagation	A1	B1
		Lower Toxicity	Higher Toxicity
		Increased toxicity →	

Plumbing Division -

Please visit our website for more information: [Plumbing Division](#)

Northwest Wichita Water Treatment Facility

The Northwest Wichita Water Treatment Facility, NWWTF, is now being commissioned for operation. Visible proof of the commitment to safe, clean drinking water for our community for the next generation of citizens. You can visit the NWWTF web page by clicking on this link.

<https://wichitawaterworks.com/about/>



This project represents an investment of \$500 million to provide potable water to Wichita and the many communities that potable water is supplied to through this treatment plant.

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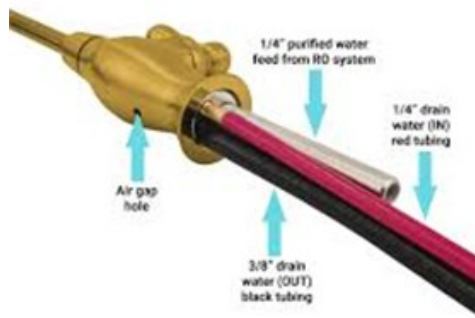
Plumbing Division—continued

Please visit our website for more information: [Plumbing Division](#)

Protection from Cross Connections

The potable water supply must be protected from cross connections that may allow the contamination of this precious resource. One of the ways that potable water can be subjected to cross connection is the installation of a reverse osmosis unit that does not have an air gap faucet provided. A code compliant RO faucet has 3 tubing connections. Those are;

1. The purified RO drinking water to faucet
2. The RO filter cartridge backwash to the air gap
3. The backwash disposal tubing extended to the fixture drain tailpiece



The air gap faucet meets the code requirements to prevent the potential cross connection of a direct connection between the RO system and the drainage system. The non-air gap single tube faucet does not meet the code requirements and is considered an unlawful connection. All that money and effort to provide clean water just to be cross connected right there under the sink. SMH (shaking my head).

The Appeals Board for Plumbers and Gas Fitters is about to finish reviewing and amending the 2024 Uniform Plumbing Code and Article 3 of the Unified Building and Trade Code (UBTC) for the adoption by the Wichita City Council and Sedgwick County Commission. They meet the last Wednesday of the month at 9am at the MABCD offices 271 W. 3rd St. N. the next meeting is scheduled for April 30, 2025. Please contact me if you would like to be on the email list for meeting notices and ZOOM meeting information or have an agenda item you would like to discuss with the Plumbing Board or an article for the newsletter.

Jason.little@sedgwick.gov

Plans Examiners-

ASCE Hazard Tool—Design Loads

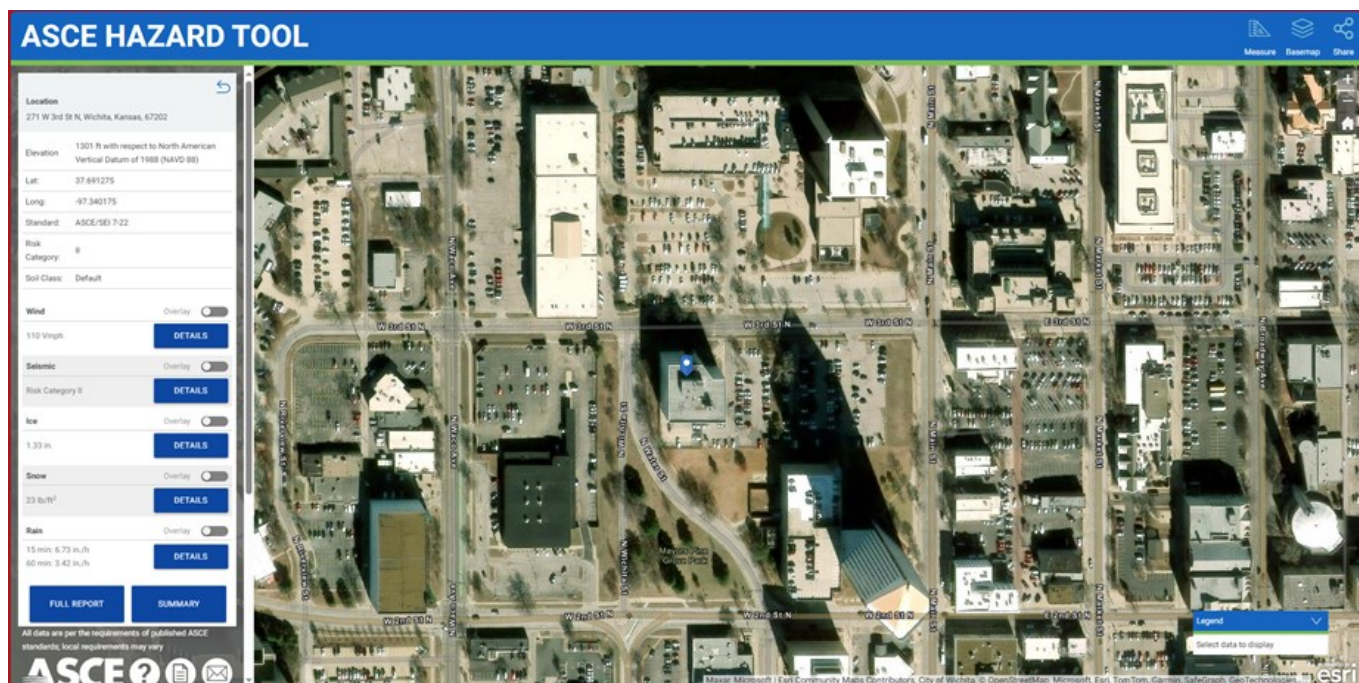
On January 1 of this year, the 2024 Edition of the International Building Code came into effect.

The structural design loads used for any new building or addition from January 1 of this year will need to meet the requirements in Chapter 16 of the 2024 Edition of the International Building Code except the Metropolitan Area Building and Construction Department does not allow the structural engineer to use Tributary Area Live Load Reduction on the Roof Live Load.

The Roof Live Load for a new building or addition must be a minimum of 20 psf with no reduction.

The plan reviewers will be verifying the design loads used on a new building or addition by using the ASCE Hazard Tool.

The link to it is the following: <https://ascehazardtool.org>. For example using the ASCE Hazard Tool, Risk Category II, and the address of the Ronald Regan Building. The following design loads would be required by the Metropolitan Area Building and Construction Department:



Wichita Fire Department -

IFC Chapter 10—Means of Egress

SECTION 1025 LUMINOUS EGRESS PATH MARKINGS

1025.5 Illumination. Where *photoluminescent* exit path markings are installed, they shall be provided with not less than 1 foot-candle (11 lux) of illumination for not less than 60 minutes prior to periods when the building is occupied and continuously during the building occupancy.

It is extremely important businesses check emergency lighting and exit signs monthly to assure they are always functioning properly.

In emergency situations if power fails, emergency lighting and exit signs allow people to find the proper exits and exit the structure quickly.



MABCD Advisory Boards - Calendar

- [Board of Building Code Standards and Appeals \(BCSA\)](#)
- [Board of Electrical Appeals \(BEA\)](#)
- [Board of Appeals of Refrigeration, Air Conditioning, Warm Air Heating, and Boiler](#)
- [Board of Appeals of Plumbers and Gas Fitters](#)

April 2025

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	2	3 <i>MABCD Mechanical Board Meeting</i>	4	5
6	7 <i>MABCD BCSA Board Meeting</i>	8 <i>MABCD BEA Board Meeting</i>	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30 <i>MABCD Plumbing Board Meeting</i>			