



MABCD CONSTRUCTION INDUSTRY NEWSLETTER

Issue 21– February 2023

<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-

In order to support our joint effort in public safety, and to facilitate the quick processing of Temporary Certificates of Occupancy (TCOs), please be sure you are using the most current form for TCO's. Because previous versions of the TCO forms do not contain all the necessary information, from a safety perspective, to allow an informed decision for granting a TCO, they can no longer be accepted.

Please fill out the front page in its entirety before posting the TCO form on the job for the inspectors to sign.

Once all Trade Inspectors have verified the TCO for their respective sections, the Building Inspector will verify the building section.

The form must be submitted for the Director's or Assistant Director's approval, and posted on the job site before it is a valid TCO.

Although we try to have the TCO's approved as quickly as possible, and usually the same day, please be aware that we have three business days to return the approved form or deny the TCO.

The TCO is not granted until the approved TCO form has been returned to you for posting.

Inside this issue

- [Administration](#).....1
- [Building Division](#)2
- [Elevator Division](#)4
- [Mechanical Division](#)5
- [Plumbing Division](#) 6
- [MABCD Advisory Boards](#)..... 7
- [Directors Desk](#).....8

Special points of interest

- T C of O Form and process.
- Truss Design Requirements.
- State-Wide Elevator Code Adoption.
- Vented Floor Furnaces.
- Approved Plastic Materials.
- Advisory Board calendar.
- News from the Directors Desk.

MABCD Application for Temporary Certificate of Occupancy

MABCD Building Inspector Signature (last to sign off) _____ Verified by _____ Date: _____

TCO Approval _____ DATE: _____

MABCD Form #68 rev 10/8/21

NOT VALID UNTIL APPROVED AND POSTED ON JOB SITE

MABCD FORM #68 rev 10/8/21

Building Division-

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

Truss Design Drawing Requirements at Framing Inspections


The following codes and guidelines for truss design drawings when using engineered trusses are in effect currently:
[IRC R802.10.1] Truss Design Drawings

Truss design drawings, prepared in conformance to Section R802.1.7.1, shall be provided to the *building official* and *approved* prior to installation.

Truss design drawings shall include, at a minimum, the information specified below. Truss design drawings shall be provided with the shipment of trusses delivered to the jobsite.

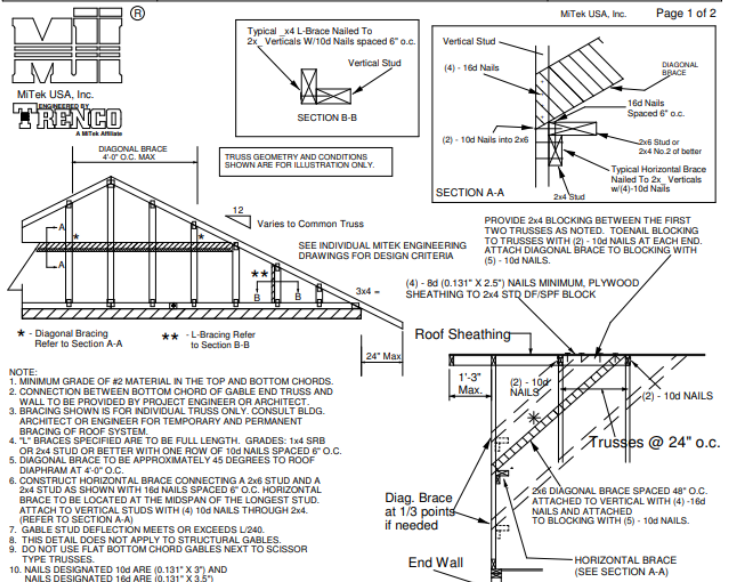
1. Slope or depth, span and spacing.
2. Location of all joints.
3. Required bearing widths.
4. Design loads as applicable.
5. Top chord live load (as determined from Section R301.6).
6. Top chord dead load.
7. Bottom chord live load.
8. Bottom chord dead load.
9. Concentrated loads and their points of application.
10. Controlling wind and earthquake loads.
11. Adjustments to lumber and joint connector design values for conditions of use.
12. Each reaction force and direction.
13. Joint connector type and description (e.g., size, thickness or gage) and the dimensioned location of each joint connector except where symmetrically located relative to the joint interface.
14. Lumber size, species and *grade for each member*.
15. Connection requirements for:
16. Truss to girder-truss.
17. Truss ply to ply.
18. Field splices.
19. Calculated deflection ratio and/or maximum description for live and total load.
20. Maximum axial compression forces in the truss members to enable the building designer to design the size, connections and anchorage of the permanent continuous lateral bracing. Forces shall be shown on the truss design drawing or on supplemental documents.
21. Required permanent truss member bracing location.

APRIL 12, 2019
Standard Gable End Detail
MII-GE100-001



MITek USA, Inc.
MII
Manufacturing Innovations
 A MITEK GROUP

MITek USA, Inc. Page 1 of 2



TRUSS GEOMETRY AND CONDITIONS SHOWN ARE FOR ILLUSTRATION ONLY.

SEE INDIVIDUAL MITEK ENGINEERING DRAWINGS FOR DESIGN CRITERIA

* Diagonal Bracing Refer to Section A-A ** L-Bracing Refer to Section B-B

NOTE:

1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.
2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.
4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH. GRADES: 1x4 SRB OR 2x4 STUD OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C.
5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF DIAPHRAM AT 4" O.C.
6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 STUD AND A 2x4 STUD AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSAN OF THE LONGEST STUD. ATTACH TO VERTICAL STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)
7. GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.
8. THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
9. DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.
10. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

* Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of web with 10d nails 8" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length.

Minimum Stud Size Species and Grade	Stud Spacing	Without L-Brace				2 DIAGONAL BRACES AT 1/3 POINTS
		1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS	
2x4 DF/SPF StdStud	12" O.C.	4-9-12	5-6-7	7-10-0	9-7-7	14-5-3
2x4 DF/SPF StdStud	16" O.C.	4-4-7	4-9-8	6-9-6	8-8-14	13-1-5
2x4 DF/SPF StdStud	24" O.C.	3-9-10	3-11-0	5-6-7	7-7-4	11-4-14

MAX MEAN ROOF HEIGHT = 30 FEET
 CATEGORY II BUILDING
 EXPOSURE B or C
 ASCE 7-98, ASCE 7-02, ASCE 7-05 100 MPH
 ASCE 7-10, ASCE 7-16 125 MPH
 DURATION OF LOAD INCREASE = 1.60

STUD DESIGN IS BASED ON COMPONENTS AND GLADDING.
 CONNECTION OF BRACING IS BASED ON MWFRS.

Building Division-

Please visit our website for more information

[Building Division](#)

Truss Design Drawing Requirements at Framing Inspections - Continued

The MABCD UBTC further states the following in regards to required construction documents to be provided at the time of appropriate inspections:

Article 1, Sec. 2 (a) - Re-inspections.

Re-inspections. A re-inspection fee may be assessed for each inspection or re-inspection when any portion of the work for which the inspection is called for is not complete or when corrections called for are not made. This section is not to be interpreted to require fees the first time a job is rejected for failure to comply with this code. However, fees may be assessed for inspections called before the job is ready for such inspections.

Re-inspection fees may be assessed when the inspection record card is not posted or otherwise available on the work site, the required construction documents are not readily available to the inspector or for failing to provide access at the time, when the inspection was requested. In order to obtain a re-inspection, the applicant shall pay a fee of \$50.00 and request re-inspection of the job. When re-inspection fees have been assessed, no additional inspection of the job will be performed until the required fees have been paid.

Elevator Division-

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

UPDATE

Elevator Contractors, Mechanics:

With the KSFM adoption of a statewide elevator program, I need to clarify a few items.

Within MABCD Jurisdiction: Sedgwick County (MABCD) is exempt from the rules and regulations adopted by the State of Kansas.

Elevator Contractors, are required to be licensed with MABCD separate from the State requirements for licensure.

Elevator Mechanics, are required to be certified with MABCD separate from the State requirements for certification.

No third party inspections will be allowed on conveyances within MABCD Jurisdiction.

ALL conveyances within MABCD Jurisdiction shall be permitted and Inspected by MABCD.

State Certification and Licensure does not certify mechanics , or license contractors in MABCD Jurisdiction.



Mechanical (HVAC) Division-

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

UBTC Section 5.4.040 - Location.

Code Fact:

Per local amendment it is allowed to replace a floor furnace in its same location as long as it has the same or less B.T.U. rating with prior approval.

UBTC's, Article V SECTION 5.4.040. – LOCATION. Section M1408.3 of the International Residential Code is amended to read as follows:

Vented Floor Furnaces. Location of floor furnaces shall conform to the following requirements:

- 1) Floor registers of floor furnaces shall be installed not less than six (6) inches (152 mm) from a wall.
- 2) Wall registers of floor furnaces shall be installed not less than six (6) inches (152 mm) from the adjoining wall at inside corners.
- 3) The furnace register shall be located not less than twelve (12) inches (305 mm) from doors in any position, draperies or similar combustible objects.
- 4) The furnace register shall be located at least five (5) feet (1524 mm) below any projecting combustible materials.
- 5) The floor furnace burner assembly shall not project into an occupied under-floor area.
- 6) The floor furnace shall not be installed in concrete floor construction built on grade.
- 7) The floor furnace shall not be installed where a door can swing within twelve (12) inches (305 mm) of the grille opening.
- 8) Replacement of floor furnaces with the same or lesser B.T.U. rating may be installed in the same location with prior approval by the building official."



Plumbing Division-

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

2021 UPC - Section 604.10 - Plastic Materials

Section 604.10 of the 2021 Uniform Plumbing Code;

“Approved plastic materials shall be permitted to be used in building supply piping, provided that where metal building supply piping is used for electrical grounding purposes, replacement piping, therefore, shall be of like materials.

Exception: Where a grounding system acceptable to the Authority Having Jurisdiction is installed, inspected, and approved, the metallic pipe shall be permitted to be replaced with nonmetallic pipe.

Plumbing contractors should identify the method of grounding before submitting a bid or proposal to the customer for a water service replacement. Code compliant grounding must be in place before the building water supply is replaced with nonmetallic materials.

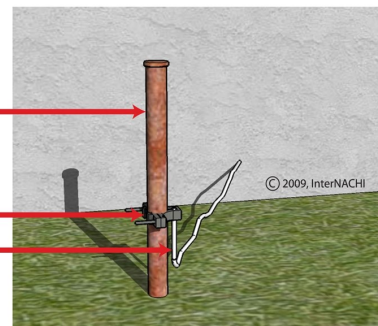
If the old metallic water service piping remains in the earth it may continue to serve as the grounding electrode so long as the continuity is preserved. The metallic piping used as the grounding electrode must extend at least 10 feet into the earth, maintain the original electrical connection and not be affected by the installation of the plastic piping.

Grounding Rod

Grounding Rod

Ground Rod Clamp

Ground Wire

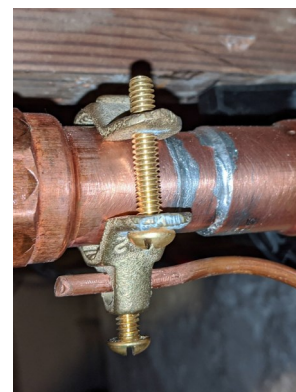


This is a life safety concern. If a new grounding rod is needed it must be installed before the new plastic water service piping is installed. The installation of grounding means must be done by a licensed electrical contractor with the appropriate permit and inspection of the grounding system.



Please include the location of the electrical ground on all water service installation permit applications and inspection requests in the comments section.

Due to new federal regulations to help protect the public water supply all water purveyors must document the materials used for water supply piping. Please include the type of piping used on all water service permit applications and inspection requests in the comments section.



Do you have a suggestion for a topic in the monthly newsletter? Please send me your ideas for issues or items that you would like to see in the monthly newsletter.

Jason.little@Sedgwick.gov

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](#)

FEBRUARY 2023

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1	2 MABCD MECHANICAL BOARD MEETING	3	4
5	6 MABCD BCSA MEETING	7	8	9	10	11
12	13	14 MABCD ELECTRICAL BOARD MEETING	15	16	17	18
19	20	21	22 MABCD PLUMBING BOARD MEETING	23	24	25
26	27	28				

Directors Desk -



[Chris W. Labrum](#)

Director

271 W. 3rd St. N.
Suite 101 Wichita, KS 67202

p: 316.660.1840

f: 316.660.1810

I'm happy to report that end-of-year closeout actions revealed that 2022 was an even better year for our local industry than I realized at the time of our last newsletter. As I stated then, we remain very proud of the cooperative effort we share with our local industry partners, and will do all we can to continue this success through 2023. On that note, I've recently heard that some understand MABCD is partially closed to customer visits and/or still under some form of COVID-related restrictions. Let me assure you that MABCD is open for business and welcomes your visit!

Having said that, it is also true that we are handling the majority of our permitting and licensing transactions via scheduled appointments. The value of appointment scheduling is something we considered prior to COVID. Once we found ourselves in the midst of the pandemic, it was a tool that allowed us to reopen our doors sooner than we otherwise would have been able to. However, like several other agencies found with similar adjustments, this proves a very effective method of providing the best possible customer service. So, while this "change" does take some getting used to, we feel it an overall improvement to our processes. It minimizes wait times, allows our technicians to be prepared for your visit, and helps to ensure customers are prepared with all needed documentation. It also has the benefit of maintaining an added level of physical security and health safety for both the public and employees.

For routine transactions that require minimum time (ex: picking up paper permits/job cards, dropping of payment/checks, receiving a notarized signature, etc.), we still encourage customers to "walk-in" during normal business hours where you'll be assisted by the receptionist or next available technician. For those who "drop by" the Reagan Building seeking assistance with the more complex transactions, the receptionist and/or next available technician will assist you. This may include providing instructions on required documentation for your desired action and setting an appointment for a return visit.

Appointments can be made through our website link <https://mabcd.timetap.com/#/>. Also as a reminder, there's very little MABCD-related business that can't be done completely online through the MABCD Portal.

