

Meeting Minutes: 2024 UPC ad hoc Rulemaking Committee of the Plumbing Board

Date: August 7, 2024
Time: 9:00 a.m.
Minutes by: Lyndy Logan
Location: DLI, 443 Lafayette Rd. No., St. Paul, MN 55155

Committee Members

1. Karl Abrahamson (Committee Secretary)
2. Richard Becker
3. Justin Parizek
4. Mike Westemeier (DLI CO's Designee)

Committee Members Absent

None

DLI Staff & Visitors

Adam Case (Board Counsel, DLI)
Allison Eastham (DLI)
Lyndy Logan (DLI)
Brad Jensen (DLI)
Steve Neubel (DLI)
Lew Anderson (City of Minneapolis) – WebEx
Tad Asay (Schier Products) – WebEx
Steve Fernlund (City of St. Paul)

DLI Staff & Visitors continued...

Julie Hagstrom (HGA) – WebEx
Jeff Hill (MNWQA)
Rick Jacobs (Local 34)
Mike Johnson (J-Berd Mech)
Jason Kruger (Kruger Consulting) – WebEx
Gonzalo Lagos (Schier Products) – WebEx
Adam Luthin – WebEx
Stephanie Menning (MUCA) – WebEx
Pete Moreau (Adspipe) – WebEx
David Nickelson (Uponor) – WebEx
Bradley Peters (Rochester Comm. Dev.) – WebEx
Jim Peterson (MN PHCC)
Jarrett Purdue – WebEx
Jennifer Schaff (County Materials) – WebEx
Gary Thaden (MMCA) – WebEx
Eric Thompson (Schier Products) – WebEx
Katy Thompson (Stantec) – WebEx
Scott Thompson (My Plumbing Training)

1. **Call to Order**

- A. The meeting was called to order by Board Chair Becker at 9:03 a.m. Committee Secretary Abrahamson took roll call, and a quorum was declared with 4 of 4 Committee members present in person.
- B. Announcements/Introductions by Board Chair Becker
 - Everyone present in person and remotely are able to hear all discussions.
 - All votes will be taken by roll call if any member is attending remotely.
 - All handouts discussed and WebEx instructions are posted on the Committee's website.

2. **Approval of meeting agenda**

A motion was made by Westemeier, seconded by Abrahamson, to approve the agenda as presented. The vote was unanimous with 4 votes in favor; the motion carried.

3. **Approval of previous meeting minutes**

A motion was made by Westemeier, seconded by Abrahamson, to approve the June 25, 2024, minutes as presented. The vote was unanimous with 4 votes in favor; the motion carried.

4. Regular Business

No expense reports.

5. Special Business

A. [Review/discuss RFA's submitted](#), if applicable

- a. [RFA PB0161](#) – Karl Abrahamson (Chapter 3) – Revised rec'd 6/18/2024
 - **June 18, 2024: Abrahamson re-submitted his RFA – will review at a later date**
 - Feb. 7, 2024: Abrahamson pulled RFA – will research and re-submit
- b. [RFA PB0163](#) – Scott Thompson (Section 420.4) – Rec'd 1/31/2024
 - March 6, 2024: The Committee unanimously agreed to leave as amended in the 2020 MN Plumbing Code.
- c. [RFA PB0164](#) – Lew Anderson (Section 205.0, 407.3, Table 702.1, 704.3) – Rec'd 2/1/2024
 - June 5, 2024 – reviewed with Chapter 7: Lew Anderson, City of Minneapolis, summarized his RFA – see Committee's recommendations shown below
 - Committee accepted as presented:
 - Under section 205.0 in the definitions, add an entry for "Commercial Hand Wash Sink" – with a suggested definition of: "A sink in a commercial kitchen or food service area which is primarily used for hand washing."
 - Committee accepted as presented with the following revisions:
 - Table 701.2 - In Table 702.1, under sinks, add a new line item entry for "Commercial hand wash" directly below the existing entry for "Commercial pot or scullery" - assign to "Commercial hand wash" a minimum size trap and trap arm of 1-1/2", ~~assign footnote 2 for a 2" drain~~, assign 1.0 ~~2.0~~ DFU under both the columns of Public and Assembly.
 - Committee accepted as presented:
 - Under Section 407.3, revise the first paragraph to read: 407.3 Limitation of Hot Water Temperature for Public Lavatories and Hand Wash Sinks. Hot water delivered from public-use lavatories and commercial hand wash sinks shall be limited to a maximum temperature of 110 degrees Fahrenheit (43 degrees Celsius). The maximum temperature shall be regulated by one of the following means:
 - Section 704.3: The committee did not accept the recommended language and instead agreed to leave 704.3 as amended in the 2020 MN Plumbing Code.
- d. [RFA PB0165](#) – Lew Anderson (Section 311.1) – Rec'd 2/5/2024
 - **April 30, 2024: Review at a later date and include building code experts in the discussion**
 - **Proposed language for section 311.1, revise second paragraph to read:** Every building shall have its own independent water and sewer ~~connection~~ services except that a group of buildings may be connected to

one or more sewer manholes on the premises that are constructed to standards set by the Authority Having Jurisdiction. Water and sewer piping shall not be routed below or through one townhouse unit to serve another townhouse unit.

- e. [RFA PB0166](#) – Lowry Engineering (Chapter 11) – Rec'd 3/1/2024
 - **Aug. 7, 2024: Will review at the September or October meeting**
 - f. [RFA PB0167](#) – Kyle Dimler (Section 310.5) – Rec'd 3/6/2024
 - **Aug. 7, 2024: Will review at the September or October meeting**
 - g. [RFA PB0168](#) – Jeffrey Hill (Section 611.0) – Chapter 6 – Revised rec'd 8/6/2024
 - **Aug. 6, 2024: Hill re-submitted his RFA with additional language as requested – Will review at the October or November meeting**
 - April 30, 2024: Hill summarized his proposed language, on pages 10 & 11. The Committee asked Hill to revise the language (including sizing criteria) and re-submit his RFA.
 - h. [RFA PB0169](#) – Daniel Currence (Table 702.3, Table 1102.4) – Rec'd 4/17/2024
 - **Aug. 7, 2024: Will review at the September or October meeting**
 - i. [RFA PB0170](#) – Eric Thompson (Chapter 10, Section 1014.2) – Rec'd 5/16/2024
 - **Will review at the October or November meeting**
 - j. [RFA PB0171](#) – Jim Peterson (Chapter 4) – Rec'd 6/25/2024
 - **Review at a later date**
 - k. [RFA PB0173](#) – Scott Thompson (Chapter 6, Section 609.10) – Rec'd 6.27.2024
 - August 7, 2024 – **will review at the October or November meeting**
 - l. [RFA PB0174](#) – Minnesota Concrete Pipe Association (Chapter 11) – Rec'd 8.5.2024 (added after the August 7th meeting concluded)
 - August 7, 2024 – **Review with Chapter 11**
 - m. [RFA PB0175](#) – City of Minneapolis (Chapter 6, Section 603.5.14) – Rec'd 7.31.2024
 - August 7, 2024 – **will review at the October or November meeting**
- B. Continue review/discussion beginning with chapter 9, section 901.0, of the 2024 Uniform Plumbing Code (UPC), and any tangential sections, and as time permits, chapter 10, review of previously tabled items, and discuss possible rulemaking recommendations to the Plumbing Board.

Chapter 9

901.0 General

- 901.1 – keep as shown in the 2024 UPC
- 901.2 – keep as shown in the 2024 UPC

- 901.3 – keep as shown in the 2024 UPC

902.0 Vents Not Required

- 902.1 – keep as shown in the 2024 UPC
- 902.2 – leave as amended in the 2020 MN Plumbing Code unless an RFA is submitted by the MN Dept. of Health

903.0 Materials

- 903.1 – Leave as amended in the 2020 MN Plumbing Code
- 903.2 – keep as shown in the 2024 UPC
- 903.2.1 – keep as shown in the 2024 UPC
- 903.2.2 – keep as shown in the 2024 UPC
- 903.2.3 – keep as shown in the 2024 UPC

904.0 Size of Vents

- 904.1 – keep as shown in the 2024 UPC
- 904.2 – keep as shown in the 2024 UPC

905.0 Vent Pipe Grades and Connections

- 905.1 – keep as shown in the 2024 UPC
- 905.2 – keep as shown in the 2024 UPC
- 905.3 – leave as amended in the 2020 MN Plumbing Code
- 905.4 – keep as shown in the 2024 UPC
- 905.5 – keep as shown in the 2024 UPC
- 905.6 – keep as shown in the 2024 UPC

906.0 Vent Termination

- 906.1 – leave as amended in the 2020 MN Plumbing Code
- 906.2 – keep as shown in the 2024 UPC
- 906.3 – leave as amended in the 2020 MN Plumbing Code
- 906.4 – keep as shown in the 2024 UPC
- 906.5 – keep as shown in the 2024 UPC
- 906.6 – keep as shown in the 2024 UPC
- 906.7 – leave as amended in the 2020 MN Plumbing Code

907.0 Vent Stacks and Relief Vents

- 907.1 – keep as shown in the 2024 UPC
- 907.2 – keep as shown in the 2024 UPC

908.0 Wet Venting

- 908.1 – keep as shown in the 2024 UPC
- 908.1.1 – keep as shown in the 2024 UPC
- 908.1.2 – keep as shown in the 2024 UPC
- 908.2 – keep as shown in the 2024 UPC
- 908.2.1 – keep as shown in the 2024 UPC

- 908.2.2 – keep as shown in the 2024 UPC
- 908.2.3 – keep as shown in the 2024 UPC
- 908.2.4 – keep as shown in the 2024 UPC
- 908.2.5 – keep as shown in the 2024 UPC

909.0 Special Venting for Island Fixtures

- 909.1 – keep as shown in the 2024 UPC with the addition of MDH 132 (O)(3) Island Fixture Venting diagram – **table until an RFA is received from DLI looking at how to incorporate language to include the illustration of MDH 132 (O)(3) Island Venting diagram – see Attachment A.**
 - The proposed language below was discussed but not approved/finalized.
 909.1 General. Traps for island sinks and similar equipment shall be roughed in above the floor and shall be permitted to be vented by extending the vent as high as possible, but not less than the drainboard height and then returning it downward and connecting it to the horizontal sink drain ~~immediately~~ downstream from the vertical fixture drain. The return vent shall be connected to the horizontal drain through an approved drainage wye branch fitting and shall, in addition, be provided with a foot vent taken off the vertical fixture vent by means of an approved drainage fitting wye branch ~~immediately~~ below the floor and extending to the nearest partition and then through the roof to the open air, or shall be permitted to be connected to other vents at a point not less than 6 inches (152 mm) above the flood-level rim of the fixtures served. Drainage fittings shall be used on the vent below the floor level, and a slope of not less than 1/4 inch per foot (20.8 mm/m) back to the drain shall be maintained. The return bend used under the drainboard shall be a one-piece fitting or an assembly of a 45 degree (0.79 rad), a 90 degree (1.57 rad), and a 45 degree (0.79 rad) elbow in the order named. Pipe sizing shall be as elsewhere required in this code. The island sink drain, upstream of the returned vent, shall serve no other fixtures. An accessible cleanout shall be installed in the vertical portion of the foot vent.

910.0 Combination Waste and Vent Systems

- 910.1 – keep as shown in the 2024 UPC
- 910.2 – keep as shown in the 2024 UPC
- 910.3 – keep as shown in the 2024 UPC
- 910.4 – keep as shown in the 2024 UPC
- 910.5 – keep as shown in the 2024 UPC
- 910.6 – keep as shown in the 2024 UPC
- 910.7 – keep as shown in the 2024 UPC

911.0 Circuit Venting

- 911.1 – keep as shown in the 2024 UPC
- 911.2 – keep as shown in the 2024 UPC
- 911.2.1 – keep as shown in the 2024 UPC
- 911.3 – keep as shown in the 2024 UPC
- 911.3.1 – keep as shown in the 2024 UPC

- 911.3.2 – keep as shown in the 2024 UPC
- 911.4 – keep as shown in the 2024 UPC
- 911.4.1 – keep as shown in the 2024 UPC
- 911.4.1.1 – keep as shown in the 2024 UPC
- 911.4.1.2 – keep as shown in the 2024 UPC
- 911.5 – keep as shown in the 2024 UPC

912.0 Engineered Vent System

- 912.1 – keep as shown in the 2024 UPC
- 912.2 – keep as shown in the 2024 UPC

Chapter 10

1001.0 General

- 1001.1 – keep as shown in the 2024 UPC
- 1001.2 – keep as shown in the 2024 UPC

1002.0 Traps Protected by Vent Pipes

- 1002.1 – keep as shown in the 2024 UPC
- 1002.2 – leave as amended in the 2020 MN Plumbing Code
- Table 1002.2 – keep as shown in the 2024 UPC
- 1002.3 – keep as shown in the 2024 UPC
- 1002.4 – keep as shown in the 2024 UPC

1003.0 Traps – Described

- 1003.1 – keep as shown in the 2024 UPC
- 1003.2 – keep as shown in the 2024 UPC
- 1003.3 – keep as shown in the 2024 UPC

1004.0 Traps

- 1004.1 – keep as shown in the 2024 UPC
- 1004.2 – keep as shown in the 2024 UPC

1005.0 Trap Seals

- 1005.1 – keep as shown in the 2024 UPC

1006.0 Floor Drain Traps

- 1006.1 – leave as amended in the 2020 MN Plumbing Code

1007.0 Trap Seal Protection

- 1007.1 – delete in its entirety
- 1007.2 – keep as shown in the 2024 UPC with the following added language:
 - **1007.2 Trap Seal Primers.** Potable water supply trap seal primer valves shall comply with ASSE 1018. Drainage or electronic design type trap seal primer devices shall comply with ASSE 1044 or IAPMO PS 76. Trap seal primers shall be accessible for maintenance.

1008.0 Building Traps

- 1008.1 – leave as amended in the 2020 MN Plumbing Code

1009.0 Interceptors (Clarifiers) and Separators

- 1009.1 – keep as shown in the 2024 UPC
- Table 1009.1 – keep as shown in the 2024 UPC
- 1009.2 – leave as amended in the 2020 MN Plumbing Code
- 1009.3 – keep as shown in the 2024 UPC
- 1009.4 – leave as amended in the 2020 MN Plumbing Code
- 1009.5 – keep as shown in the 2024 UPC
- 1009.6 – keep as shown in the 2024 UPC
- 1009.7 – keep as shown in the 2024 UPC

1010.0 Slaughterhouses, Packing Establishments, etc.

- 1010.1 – leave as amended in the 2020 MN Plumbing Code

1011.0 Minimum Requirements for Auto Wash Racks

- 1011.1 – keep as shown in the 2024 UPC

1012.0 Commercial and Industrial Laundries

- 1012.1 – keep as shown in the 2024 UPC

1013.0 Bottling Establishments

- 1013.1 – keep as shown in the 2024 UPC

1014.0 Grease Interceptors

- 1014.1 – leave as amended in the 2020 MN Plumbing Code with the addition of ANSI/CAN/IAPMO Z1001 as follows:
 - 1014.1 General. Where it is determined by the Authority Having Jurisdiction that waste pretreatment is required, an approved type of grease interceptor(s) complies with ASME A112.14.3, ASME A112.14.4, CSA B481, PDI G-101, ANSI/CAN/IAPMO Z1001, or PDI G-102, and sized in accordance with Section 1014.2.1 or Section 1014.3.6, shall be installed in accordance with the manufacturer’s installation instructions to receive the drainage from fixtures or equipment that produce grease-laden waste located in areas of establishments where food is prepared, or other establishments where grease is introduced into the drainage or sewage system in quantities that can effect line stoppage or hinder sewage treatment or private sewage disposal systems. A combination of hydromechanical, gravity grease interceptors and engineered systems shall be allowed to meet this code and other applicable requirements of the Authority Having Jurisdiction where space or existing physical constraints of existing buildings necessitate such installations. A grease interceptor shall not be required for individual dwelling units or private living quarters. Water closets, urinals, and other plumbing fixtures conveying human waste shall not drain into or through the grease interceptor.

- 1014.1.1 – keep as shown in the 2024 UPC
- 1014.1.2 – keep as shown in the 2024 UPC
- 1014.1.3 – keep as shown in the 2024 UPC
- 1014.2 – **table and discuss at a later date**
- 1014.2.1 – **table and discuss at a later date**
- Table 1014.2.1 – **table and discuss at a later date**
- 1014.2.2 – keep as shown in the 2024 UPC
- 1014.3 – keep as shown in the 2024 UPC
- 1014.3.1 – keep as shown in the 2024 UPC
- 1014.3.2 – keep as shown in the 2024 UPC
- 1014.3.2.1 – keep as shown in the 2024 UPC
- 1014.3.2.2 – keep as shown in the 2024 UPC
- 1014.3.3 – keep as shown in the 2024 UPC
- 1014.3.4 – **table and discuss at a later date, DLI will submit an RFA**
- 1014.3.4.1 – keep as shown in the 2024 UPC
- 1014.3.4.2 – keep as shown in the 2024 UPC
- 1014.3.4.3 – keep as shown in the 2024 UPC
- 1014.3.5 – keep as shown in the 2024 UPC
- 1014.3.6 – keep as shown in the 2024 UPC
- Table 1014.3.6 – keep as shown in the 2024 UPC
- 1014.3.7 – leave as amended in the 2020 MN Plumbing Code

1015.0 FOG (Fats, Oils, and Greases) Disposal System

- 1015.1 – keep as shown in the 2024 UPC
- 1015.2 – keep as shown in the 2024 UPC
- 1015.3 – keep as shown in the 2024 UPC
- 1015.4 – keep as shown in the 2024 UPC

1016.0 Sand Interceptors

- 1016.1 – keep as shown in the 2024 UPC
- 1016.2 – keep as shown in the 2024 UPC
- 1016.3 – keep as shown in the 2024 UPC
- 1016.4 – leave as amended in the 2020 MN Plumbing Code

1017.0 Oil and Flammable Liquid Interceptors

- 1017.1 – **table and review at a later date, Justin Parizek will submit an RFA**
- 1017.2 – **table and review at a later date, Richard Becker will submit an RFA**
- 1017.2.1 – leave as amended in the 2020 MN Plumbing Code
- 1017.3 – **table and review at a later date, Justin Parizek will submit an RFA**
- 1014.4 – **table and review at a later date, Justin Parizek will submit an RFA**

At the next meeting, the Committee will continue the review/discussion beginning with chapter 11, section 1101.0, of the 2024 Uniform Plumbing Code (UPC), and any tangential sections, **and as time permits, review of RFAs 166, 167, and 169**; and discuss possible rulemaking recommendations to the Plumbing Board.

6. **Announcements**

The following Committee meetings have been scheduled and notices will be sent to the Plumbing Board's interested parties distribution list one week prior. Meetings will be in person at DLI with WebEx and phone options. Meetings begin at 9 a.m. and are expected to last 2-3 hours.

- September 4, 2024, Minnesota Room
- October 3, 2024, Minnesota Room
- November 6, 2024, Minnesota Room
- December 4, 2024, Minnesota Room
- January 2, 2025, Minnesota Room

7. **Adjournment**

A motion was made by Abrahamson, seconded by Parizek, to adjourn the meeting at 11:29 a.m. The vote was unanimous with 4 votes in favor of the motion; the motion passed.

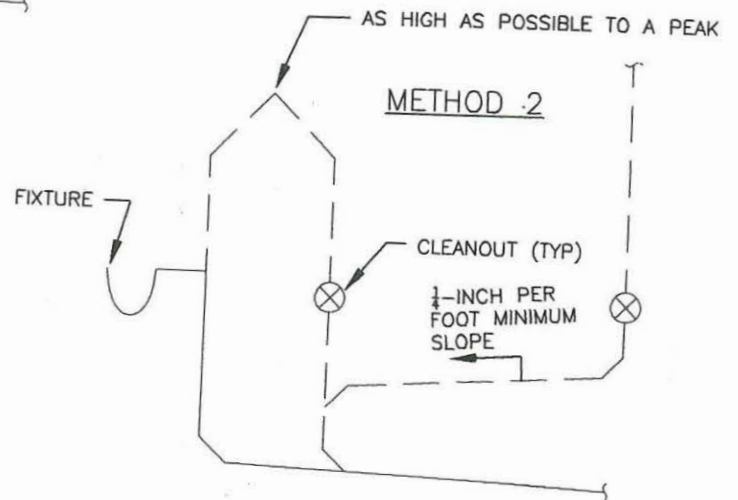
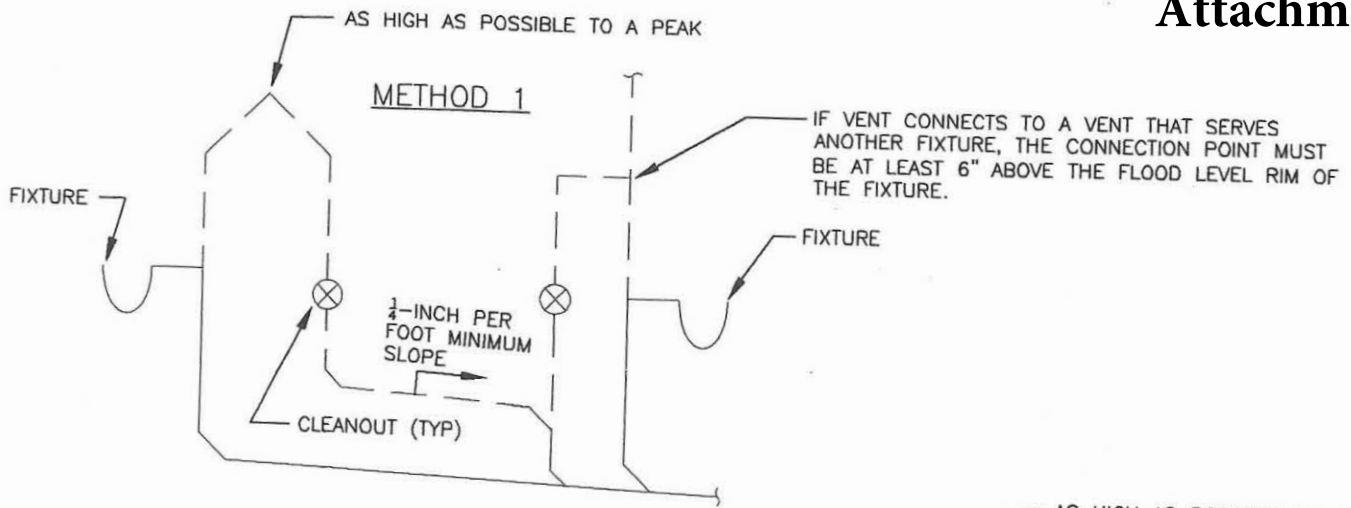
Respectfully submitted,

Karl Abrahamson

Karl Abrahamson
Committee Secretary

Green meeting practices

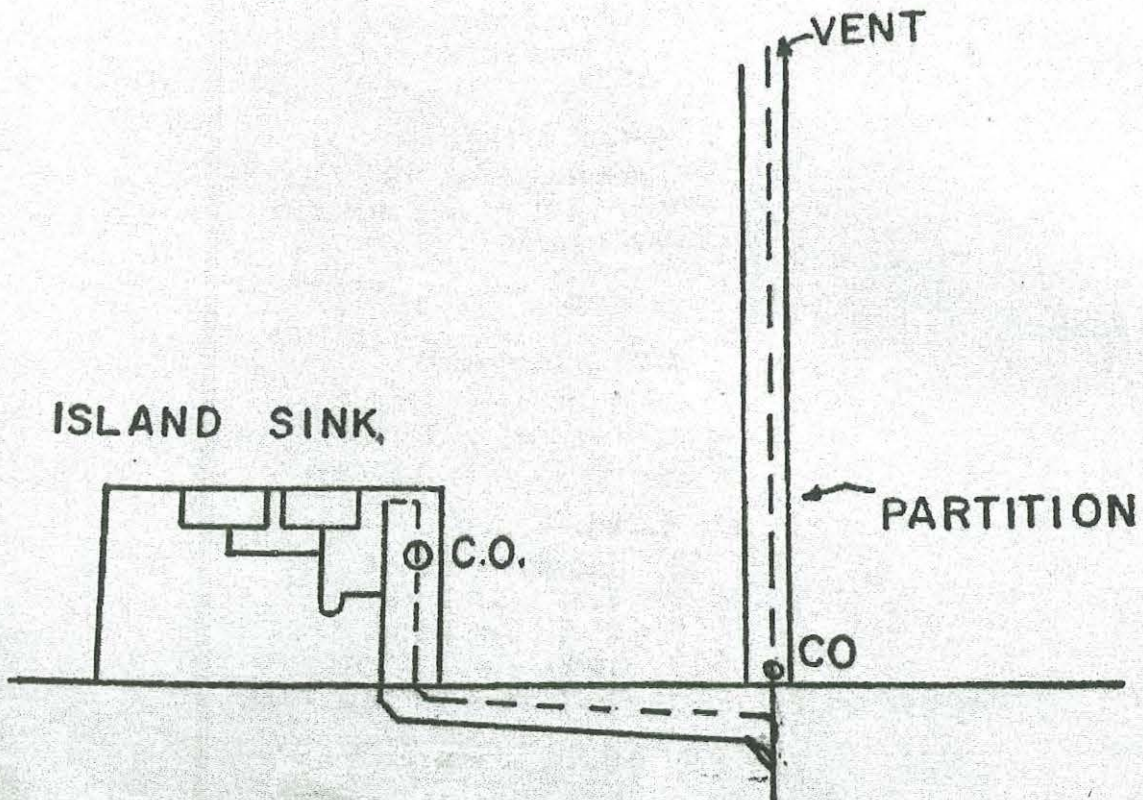
The State of Minnesota is committed to minimizing in-person environmental impacts by following green meeting practices. DLI is minimizing the environmental impact of its events by following green meeting practices. DLI encourages you to use electronic copies of handouts or to print them on 100% post-consumer processed chlorine-free paper, double-sided.



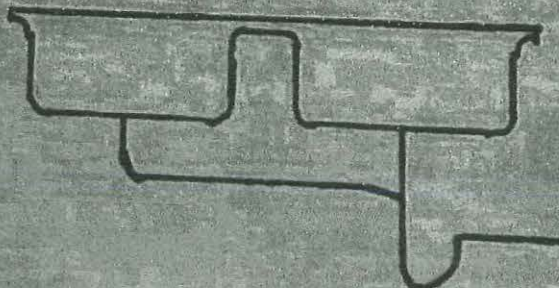
EITHER METHOD MAY BE USED. ISLAND VENTING MUST COMPLY WITH MINNESOTA RULES, PART 4715.2655.

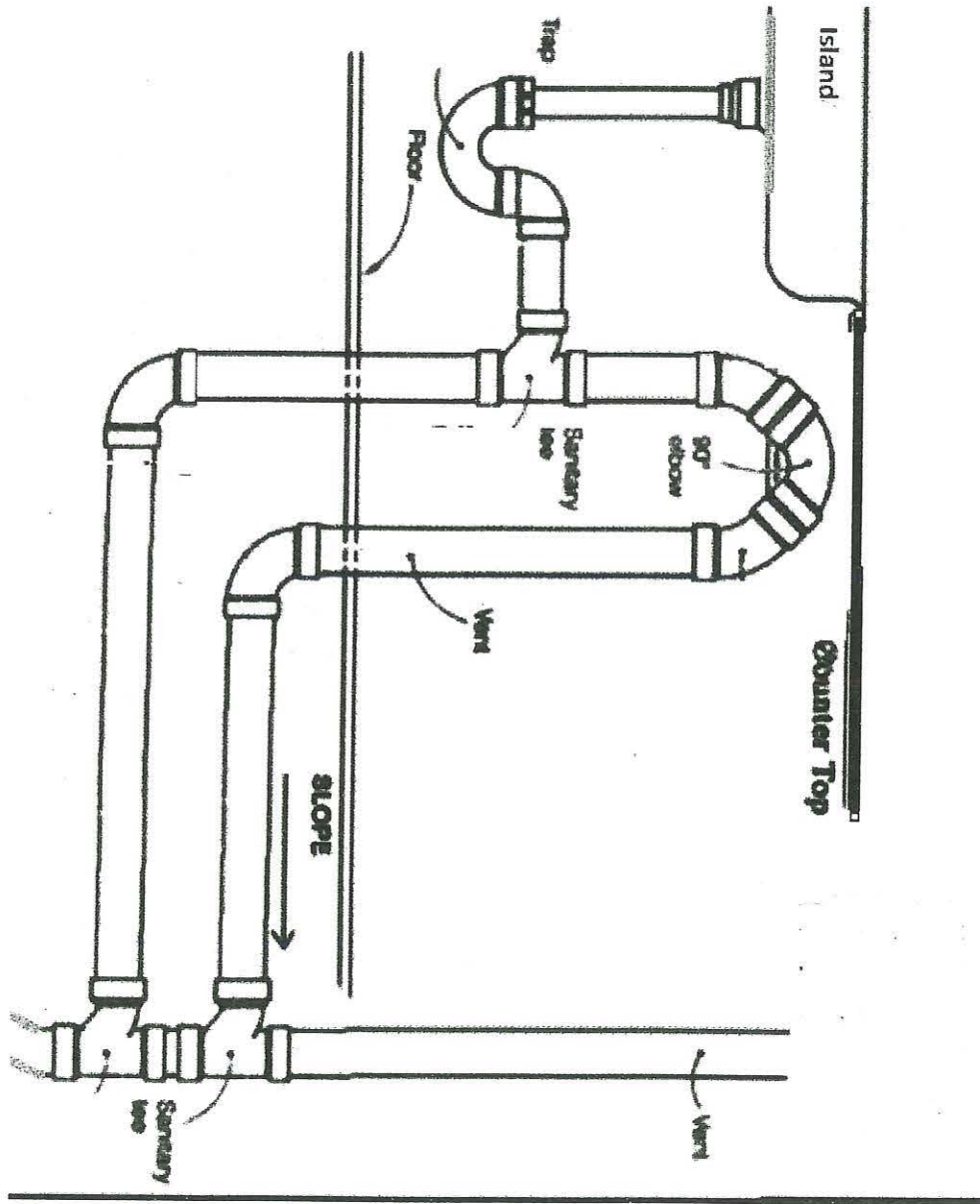


MHD 132 (0)(3)
ISLAND FIXTURE VENTING



MHD 121 DEFINITIONS
CONTINUOUS WASTE





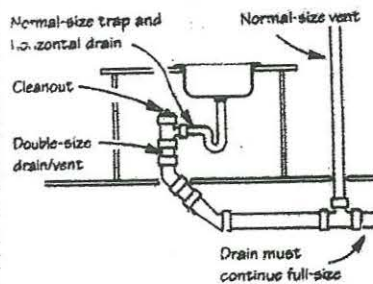


Figure 3. A double-sized single-fixture wet vent provides enough makeup air to allow the drain to flow freely.

INSTALLATION IN THE VERTICAL PORTION OF THE DRAIN VENT.

909.2 Combination Waste and Vent for Island Sinks. A combination waste and vent system for island sinks shall be permitted. The waste pipe shall be a minimum 3 inches (80 mm) in diameter undiminished in size from the kitchen sink trap connection. The trap shall connect to a 3x3x1½-inch sanitary tee with a 3-inch cap on top of the tee. An accessible 3-inch cleanout shall be provided at the base of the kitchen cabinet. The vent shall be a minimum 1½ inches (40 mm) in diameter and connect to the horizontal waste pipe no greater than 15 feet (4.6 m) from the trap connection. The trap shall be sized in accordance with Section 1003.3.