Phone (414) 527-0400

THE SAN	
FIRE	PLACE

FAX (414) 527-0598

11700 West Silver Spring Rd. Milwaukee, Wisconsin 53225

: Fox Point Building Jasp ΤO ATTN : SCOTT Miller

DATE: 3-29-06 FROM: WRYNE

This is page 1 of _____ pages.

COMMENTS : PLEASE Sue ENCLOSED Copies D NAT Ful Code & Dineet Vent 7.2.5 NEGC 7:5.1 Applus to Facture Built Chromings (Finskell According to Listing) 7.5-2. Applier to Non Fritary Built Chining's

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MAR-

NATIONAL FUEL GAS CODE

(c) Vent connectors serving equipment vented by natural draft shall not be connected into any portion of mechanical draft systems operating under positive pressure.

(d) Where a mechanical draft system is employed, provision shall be made to prevent the flow of gas to the main burners when the draft system is not performing so as to satisfy the operating requirements of the equipment for safe performance.

(c) The exit terminals of mechanical draft systems shall be not less than 7 ft (2.1 m) above grade where located adjacent to public walkways and shall be located as specified in 7.8(a). and (b).

(f) Mechanical draft systems shall be installed in accordance with the terms of their listing and the manufacturers' instructions.

7.3.5* Ventilating Hoods and Exhaust Systems.

(a) Venulating hoods and exhaust systems shall be permitted to be used to vent gas utilization equipment installed in commercial applications.

(b) Where automatically operated gas utilization equipment is vented through a ventilating hood or exhaust system equipped with a damper or with a power means of exhaust, provisions shall be made to allow the flow of gas to the main burners only when the damper is open to a position to properly vent the equipment and when the power means of exhaust is in operation.

7.3.6 Circulating Air Ducts and Plenums. No portion of a venting system shall extend into or pass through any circulating air duct or plenum.

7.4 Type of Venting System to Be Used.

74.1 The type of venting system to be used shall be in accordance with Table 7.4.1.

7.4.2 Plastic Piping. Approved plastic piping shall be permitted to be used for venting equipment listed for use with such venting materials.

7.4.3 Special Gas Vent. Special gas vent shall be listed and installed in accordance with the terms of the special gas vent listing and the manufacturers' instructions.

7.5 Masonry, Metal, and Factory-Built Chimneys-

7.5.1 Listing or Construction.

(a) Factory-built chimneys shall be installed in accordance with their listing and the manufacturers' instructions. Factorybuilt chimneys used to vent appliances that operate at positive vent pressure shall be listed for such application.

(b) Metal chimneys shall be built and installed in accordance with NFPA 212, Standard for Chimneys, Finglaces, Vents, and Solid Fuel-Burning Appliances, or local building codes.

(c) "Masonry chimneys shall be built and installed in accordance with NFPA 211, Stondard for Chimneys, Forplace, Units, and Solid Fud-Burning Appliances, or local building codes and lined with approved clay fluc liming, a listed chimney lining system, or other approved material that will resist corrosion, erosion, softening, or cracking from vent gases at temperatures up to 1800°F (982°C).

Exception: Masonry chimney flues serving listed gas appliances with draft hoods, Category I appliances, and other gas appliances listed for use with Type B vents shall be permitted to be lined with a chimney lining system specifically listed for use only with such appliances. The liner shall be installed in accordance with the tiner manufacturer's Table 7.4.1 Type of Venting System to Be Used

Gas Utilization Equipment	Type of Venting System
Listed Category I equipment	Type B gas vent (7.6)
Listed equipment equipped with draft bood	Chimney (7.5) Single-wall metal pipe (7.7)
Equipment listed for use with Type B gas vent	Listed chimney lining system for gas venting (7.5.1c).
	Special gas vent listed for this equipment (7.4.8)
Listed vented wall furnaces	Type B-W gas vent (7.6. 6.28)
Category I equipment	As specified or furnished by manufacturers of listed equipment (7.4.2, 7.4.5)
Category III equipment	As specified or furnished by manufacturers of listed equipment (7.4.2, 7.4.8)
Category IV equipment	As specified or furnished by manufacturers of listed equipment (7.4.2, 7.4.3)
Incinerators, indoors	Chimney (7.5)
Incinerators, outdoors	Single-wall metal pipe [7.7. 7.7.3(c)]
Equipment that can be con- verted to use of solid fuel	Chimney (7.5)
Unlisted combination gas- and oil-burning equipment	Chimney (7.5)
Listed combination gas- and oil-burning equipment	Type L vent (7.6) or chimney (7.5)
Combination gas and solid- fuel-burning equipment	Chimney (7.5)
Equipment listed for use with chimners only	Chimney (7.5)
Unlised equipment	Chimney (7.5)
Decorative appliance in vented fireplace	Chimney [6.6.2(2)]
Cashred wiles	Single-wall metal pipe (7.7. 6.26.3)
Directivent equipment	See 7.2.5
Equipment with integral vent	Sec 7.2.6
Equipment in commercial and industrial installations	Chimney, vendlaring bood, and exhaust system (7.3.5)

instructions and the terms of the listing. A permanent identifying label shall be attached at the point where the connection is to be made to the liner. The label shall read "This chimney liner is for appliances that burn gas only. Do not connect to solid or liquid fuel-burning appliances or incinerators."

7.5.2 Termination

(a) A chimney for residential-type or low-heat gas utilization equipment shall extend at least 3 ft (0.9 m) above the highest point where it passes through a roof of a building and at least 2 ft (0.6 m) higher than any portion of a building within a horizontal distance of 10 ft (3.0 m). [See Figure 7.5.2(a).]

Comm 23.14 Gas vents.

(1) GENERAL. All gas-fired equipment shall be provided with vent pipes conforming with s. Comm 23. 15 (2) (e), unless the manufacturer specifies other materials.

(2) DRYER VENTING. (a) Gas-fired clothes dryers shall be provided with metal venting that terminates outside the structure.

Note: s. Comm 22.08 (3) requires all dryer venting to terminate outside the structure.

(b) Where dryer vent piping is concealed, a rigid metal vent pipe conforming with s. Comm 23.15 (2) (c) shall be used.

Question: May plastic vent pipe or flex-vent be used for clothes dryers? Answer: Probably not. Comm 23.14 (2) requires gas-fired clothes dryers to be vented to the exterior with <u>metal vent pipe</u>. If the vent piping is concealed, then it shall be rigid metal. Most manufacturers of even electric clothes dryers also recommend metallic vents; however, some still allow plastic vents to be used. Due to various safety and fire hazards, the department recommends metal for all dryers that way if equipment is changed out later to a gas dryer it would still be compliant.

(3) VENTING SYSTEM LOCATION. (a) A venting system shall terminate at least 3 feet above any forced air inlet located within 10 feet horizontally. This provision does not apply to the combustion air intake of a direct-vent appliance.

(b) The venting system of other than a direct-vent appliance shall terminate at last 4 feet below, 4 feet horizontally from, or 1 foot above any door, window, or gravity air inlet into any building. The bottom of the vent shall be located at least 12 inches above grade.

(c) The vent terminal of a direct-vent appliance with an input of 10,000 Btu/h or less shall be located at least 6 inches from any air opening into a building.

(d) The vent terminal of a direct-vent appliance with an input over 10,000 Btu per hour but not over 50,000 Btu/h shall be located at least 9 inches from any air opening into a building.

(e) The vent terminal of a direct-vent appliance with an input over 50,000 Btu/h shall be located at least 12 inches from any air opening into a building.

(f) The bottom of the vent terminal and the air intake of a direct-vent appliance shall be located at least 12 inches above grade.

(g) The exit terminal of a mechanical draft system shall be not less than 7 feet above grade where located within 3 feet of a public walkway that is intended for use by the general public.

-2004-23-44-

23.14

VENTING OF EQUIPMENT N.F.P.A. 5

54-5)

on Devices. Means acceptable to the prisdiction shall be provided to prevent ater heater or any tank to which a circuthat incorporates a cold water inlet tube

Natural Gas (CNG) Vehicular Fuel Systion of compressed natural gas (CNG) fueltems shall conform with Standard for (Iom-CNG) Vehicular Fuel Systems, NFPA 52.

Venting of Equipment

s part recognizes that the choice of venting ethods of installation of venting systems are operating characteristics of the gas utilizaie operating characteristics of vented gas ni can be categorized with respect to (1) pressure within the venting system; and (2) quipment generates flue or vent gases that e venting system. See Section 1.7 for the ented appliance categories.

or Venting.

to Venting Systems. Except as permit-17.2.6, all gas utilization equipment shall uting systems.

Jot Required to Be Vented.

estic cooking units listed and marked for

ites and listed laundry stoves.

1 clothes dryers (see 6.4.4 for exhausting

sted booster-type (automatic instanta-, when designed and used solely for the quirements of a dishwashing machine, quipment is installed, with the draft hood red, if a draft hood is required, in a coming a mechanical exhaust system; where nner, the draft hood outlet shall not be cm) vertically and 6 in. (15 cm) horizonce other than the equipment.

(erators.

pliances.

rs listed for unvented use. (See 6.24.1 and

ed make-up air heaters.

oment listed for unvented use and not collars.

equipment of limited input such as laboas lights.

all of this equipment is installed so the ting exceeds 20 Btu per hr per cu ft which the equipment is installed is directly connected to another room or space by a doorway, archway, or other opening of comparable size that cannot be closed, the volume of such adjacent room or space shall be permitted to be included in the calculations.

7.2.3" Ventilating Hoods. Ventilating hoods and exhaust systems shall be permitted to be used to vent gas utilization equipment installed in commercial applications (see 7.3.5) and to vent industrial equipment, particularly where the process itself requires fume disposal. (See 5.1.6 and 5.1.8.)

7.2.4 Well-Ventilated Spaces. Where located in a large and well-ventilated space, industrial gas utilization equipment shall be permitted to be operated by discharging the flue gases directly into the space.

7.2.5 Direct-Vent Equipment. Listed direct-vent gas utilization equipment shall be considered properly vented where installed in accordance with the terms of its listing, the manufacturer's instructions, and 7.8(c).

7.2.6 Equipment with Integral Vents. Gas utilization equipment incorporating integral venting means shall be considered properly vented where installed in accordance with its listing, the manufacturer's instructions, and 7.8(a) and (b).

7.3 Design and Construction.

7.3.1 Minimum Safe Performance. A venting system shall be designed and constructed so as to develop a positive flow adequate to remove flue or vent gases to the outside atmosphere.

7.3.2 Equipment Draft Requirements. A venting system shall satisfy the draft requirements of the equipment in accordance with the manufacturer's instructions.

7.3.3 Design and Construction. Gas utilization equipment required to be vented shall be connected to a venting system designed and constructed in accordance with the provisions of Sections 7.4 through 7.15.

7.3.4 Mechanical Draft Systems.

(a) Gas utilization equipment requiring venting shall be permitted to be vented by means of mechanical draft systems of either forced or induced draft design.

Exception: Incinerators.

(b) Forced draft systems and all portions of induced draft systems under positive pressure during operation shall be designed and installed so as to prevent leakage of flue or vent gases into a building.

(c) Vent connectors serving equipment vented by natural draft shall not be connected into any portion of mechanical draft systems operating under positive pressure.

(d) Where a mechanical draft system is employed, provision shall be made to prevent the flow of gas to the main burners when the draft system is not performing so as to satisfy the operating requirements of the equipment for safe performance.

(e) The exit terminals of mechanical draft systems shall be

IAR-28-2006 16:09	THE FIRE PLACE LTD		414 527 0598	P.05
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Residential appliances		an listed	9 inches	
listed for use with	not permitted	<u>as nated</u>	18 inches	as liv
Peridential incinerators	not permitted	g listed	as listed	1.5 1.1
Listed gas-fired toilets	not. permitted	35 /15(1)	9 inches	as lis
Unlisted residential appli- ances with draft bood	not permitted	6 inches		ar b
Residential and low-heat		n inches	18 inches	
equipment other than those abuve	nut permitted	not permitted	36 inches	148 D
Medium-heat equipment	not permittett		www. to which case the listed	deatances shall app

7.8* Venting System Location.

(a) A venting system shall terminate at least 3 ft (0.9 m) above any forced air inlet located within 10 ft (8.1 m).

Exception No. 1: This provision shall not apply to the combustion. oir intake of a direct-vent appliance.

Exception No. 2: This provision shall not apply to the separation) of the circulating air inlet and flue gas discharge of listed outdoor oppliances.

(b) The venting system of other than a direct-vent appliance shall terminate at least 4 ft (1.2 m) below, 4 ft (1.2 m) horizontally from, or 1 ft (30 cm) above any door, window. or gravity air inlet into any building. The bottom of the vent terminal shall be located at least 12 in. (30 cm) above grade.

(c) The vent terminal of a direct-vent appliance with an input of 10,000 Btu per hr (3 kW) or less shall be located at least 6 in. (150 min) from any air opening into a building. and such an appliance with an input over 10,000 Btu per hr (3 kW) but not over 50,000 Bto per hr (14.7 kW) shall be installed with a 9-in. (23-cm) vent termination clearance and an appliance with an input over 50,000 Btu per hr (14.7 kW) shall be at least a 12-in. (30-cm) vent termination clearance. The bottom of the vent terminal and the air intake shall be located at least 12 in. (30 cm) above grade.

(d) Uninsulated single-wall metal pipe shall not be used outdoors in cold climates for venting gas utilization equipment.

(e) Through-the-wall vents for Category II and Category IV appliances and noncategorized condensing appliances shall not terminate over public walkways or over an area where condensate or vapor could create a nuisance or hazand or could be detrimental to the operation of regulators, relief valves, or other equipment. Where local experience

N.F.P.A. 54

indicates that condensate is a problem with Careg Category III appliances, this provision shall also a

7.9 Condensation Drain.

(a) Provision shall be made to collect and dispe densate from venting systems serving Category II gory IV gas utilization equipment and noncatego densing appliances in accordance with 7.8(e).

(b) Where local experience indicates that conder problem, provision shall be made to drain off and condensate from venting systems serving Category gory III gas utilization equipment in accordance wi

7.10 Vent Connectors for Category I Gas 1 Equipment.

7.10.1 Where Required. A vent connector shall connect gas utilization equipment to a gas vent. single-wall metal pipe, except where the gas vent, t single-wall metal pipe is directly connected to the

7.10.2 Materials.

(a) A vent connector shall be made of nonc corrosion-resistant material capable of withstand gas temperature produced by the gas utilization and of sufficient thickness to withstand physical

(b) Vent connectors for residential-type app)

comply with the following:

1. Appliances Installed in Allies. Vent cor listed gas appliances having draft hoods and listed for use with Type B gas vents that are insta shall he of Type B or Type I. vent material.

1996 Edition

Phone (414) 527-()4(1()

PAX (414)527-0598 11700 West Silver Spring Rd. Milwaukee, Wisconsin 53225 : Fox Bint Building Fraspee. то DATE: 3-29-06 : SCOTT Miller ATTN FROM: WRYNE This is page 1 of pages. COMMENTS : PLEASE Notice the Copy of Vent Termin. From the state of 2 proges from MFG Friskl MMUAL (Ruberts Res) Thanks

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P. O. Box 7970 Madison, Wisconsin 53707 (608) 266-1018 TDD #: (608) 264-8777 Jim Doyle, Governor Mary P. Burke, Secretary

MEMORANDUM

DATE: March 28, 2006

- TO: Dennis Glavin Fireplace, LTD
- FROM: Duane Hubeler UDC Consultant (608) 266-1390

SUBJECT: DIRECT VENT FIREPLACE VENT TERMINATION

You asked me to comment on the application of the "2 feet in 10 feet rule" for vent termination. Section Comm 23.11 (2) requires the 2-in-10 rule for all masonry chimneys and as a default in cases where vent termination is not specified in the listing. That same section requires vent termination in accordance with the product listing. Most direct vent appliances have listings that allow lesser clearances than the 2-in-10 rule.

VERTICAL TERMINATION SYSTEMS (ROOF)

Figure 17, and Figures 27 through 31 on pages 13 and 14 and their associated Vertical Vent Tables illustrate the various vertical venting configurations that are possible for use with these appliances. Secure Vent pipe applications are shown in these figures; Secure Flex pipe may also be used. A Vertical Vent Table summarizes each system's minimum and maximum vertical and horizontal length values that can be used to design and install the vent components in a variety of applications,

Both these vertical vent systems terminate through the roof. The minimum vent height above the roof and/or adjacent walls is specified in ANSI Z223.1-(latest edition) (In Canada, the current CAN-1 B149 installation code) by major building codes. Always consult your local codes for specific requirements. A general guide to follow is the Gas Vent Rule (refer to Figure 4 on page 5).

Vertical (Straight) installation

Determine the number of straight vent sections required. 4 1/3' (114 mm), 10 1/2" (267 mm), 22 1/2" (572 mm), 34 1/2" (876 mm) and 46 1/2" (1181 mm) net section lengths are available. Plan the vent lengths so that a joint does not occur at the Intersection of ceiling or roof joists. Refer to the Vent Section Length Chart.



Figure 17

		VENT SECTION LENGTH CHART														
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NOTE: DIAGRAMS & ILLUSTRATIONS NOT TO SCALE

VENT TERMINATION CLEARANCES

These instructions should be used as a guideline and do not supersede local codes in any way. Install vent according to local codes, these instructions, the current National Fuel Gas Code (ANSI-2223.1) in the USA or the current standards of CAN/CGA-B149.1 and -B149.2 In Canada.

Vertical Vent Termination Clearances

Terminate single vent caps relative to building components according to *Figure 4.*



Terminate multiple vent terminations according to the installation codes listed at the top of this page.

Horizontal Vent Termination Clearances

The horizontal vent termination must have a minimum of 3° (76 mm) clearance to any overnead combustible projection of 2 ½' (64 mm) or less. See *Figure 5.* For projections exceeding 2 ½' (64 mm), see *Figure 5.* For additional vent location restrictions refer to *Figure 8 on page 6.*

TYPICAL INSTALLATION SEQUENCE

The typical sequence of installation follows, however, each installation is unique resulting in variations to those described.

See the page numbers references in the following steps for detailed procedures.

- Step 1. (page 5) Construct the appliance framing. Position the appliance within the framing and secure with nailing brackets.
 Step 2. (page 5) Route gas supply line to
- appliance location.



Step 3. (page 9) Install the vent system and exterior termination.

- Step 4. (page 21) Field Wirlng
- B. Millivolt Appliances Install the operating control switch (not factory provided) and bring in electrical service line for forced air circulating blower (optional equipment).
- b. Electronic Appliances Field wire and install operating control switch.
- Step 5. (page 21) Install blower kit (optional equipment).
- Step 6. (page 22) Make connection to gas supply.
- Step 7. (page 22) Install the logs, decorative volcanic stone and glowing embers.
- Step 8. (page 22) Checkout appliance operation.
- Step 9. (page 22) Install glass door frame assembly.
- Step 10. (page 23) Adjust burner to ensure proper flame appearance.

Step 11. (page 23) Install the hoods.

DETAILED INSTALLATION STEPS

The appliance is shipped with all gas controls and components installed and pre-wired. Remove the shipping carton, exposing the front glass door. Remove the top panel. Remove the cardboard from underneath the pressure relief plates. Press in simultaneously the lett and right side of the bottom hinged panel, to release it. Lower the bottom hinged panel. Open the two latches (located under the firebox floor) securing the glass door. Remove the door by tilting it outward at the bottom and lifting it up. Set the door aside protecting it from inadvertent damage. See Figure 55 on page 23.

NOTE: DIAGRAMS & ILLUSTRATIONS NOT TO SCALE.

Slep 1. FRAMING

Frame these appliances as illustrated in *Figure* 9 on page 7, unless the appliance is to be installed in a corner. See *Figure 10 on page 7* or *Figure 11 on page 8* for corner framing installations. All framing details must allow for a minimum clearance to combustible framing members as shown in *Table 2*.

If the appliance is to be elevated above floor level, a solid continuous platform must be constructed.

Headers may be in direct contact with the appliance top spacers but must not be supported by them or notched to fit around them. All construction above the appliance must be self supporting. DO NOT use the appliance for structural support.

The fireplace should be secured to the side framing members using the unit's nailing flanges - one top and bottom on each side of the fireplace front. See *Figure 6*. Use 8d nails or their equivalent.



Figure 6

Step 2. ROUTING GAS LINE

Routea ½ (13 mm) gas line along the inside of the right side framing as shown in *Figure* 7. Gas lines must be routed, constructed and made of materials that are in strict accordance with local codes and regulations. All appliances are factory-equipped with a flexible gas line connector and ½ inch shutoff valve. (See step 6 on page 21).







How to Use These Tables

1. Calculate total and live load on the beam or header in pounds per lineal foot (plf).

£

- 2. Select appropriate SPAN (center-to-center of bearing).
- 3. Scan horizontally to find the proper width and a depth that exceeds actual total and live loads.
- 4. Review bearing lengths to ensure adequacy.

Floor—100% (PLF)

					13/4" Widt	h					31/2"	Width		
Span	Condition	51/2"	71/4"	91/4"	91/2"	111/4"	117/8"	14"	51/2"	71/4"	91/4"	9 1/2"	111/4"	117/8"
	Total Load	432	762	1027	1062	1324	1424	1794	864	1525	2055	2125	2648	2848
6'	Live Load L/360	290	626]		580	1253				
	Min. End/Int. Bearing (in.)	1.5/3.5	1.7/4.3	2.3/5.9	2.4/6.1	3/7.6	3.2/8.2	4.1/10.3	1.5/3.5	1.7/4.3	2.3/5.9	2.4/6.1	3.0/7.6	3.2/8.2
	Total Load	146	325	695	731	915	978	1207	292	651	1391	1462	1830	1957
8'	Live Load L/360	126	280	555	597		-		253	561	1110	1195		
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	2.1/5.3	2.2/5.6	2.8/7.0	3.0/7.5	3.7/9.3	1.5/3.5	1.5/3.5	2.1/5.3	2.2/5.6	2.8/7.0	3.0/7.5
	Total Load	73	166	491	517	709	784	968	146	332	983	1034	1418	1570
9'-6"	Live Load L/360			344	370	592	687			í I	688	741	1185	1374
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.8/4.5	1.9/4.7	2.6/5.5	2.9/7.2	3.5/8.8	1.5/3.5	1.5/3.5	1.8/4.5	1.9/4.7	2.6/6.5	2.9/7.2
	Total Load	, 59	135	441	466	539	707	908	118	270	883	932	5279	1415
10'	Live Load L/360	•		297	321	514	. 597	1		ļ. ·	595	642	1029	1125
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.7/4.2	1.3/4.5	2.4/6.2	2.7/6.8	3.5/8.7	1.5/3.5	1.5/3.5	1.7/4.2	1.8/4.5	2.4/5.2	2.7/6.8
	Total Load		64	250	281	442	489	566	54	128	521	563	385	979
12'	Live Load L/360			176	190	309	360	569			353	381	518	720
	Min. End/Int. Bearing (in.)		1.5/3.5	1.5/3.5	1.5/3.5	2/5.1	2.2/5.7	3.1/7.7	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	2.0/5.1	2.2/5.7
	Total Load			164	178	293	342	487		. ó6	329	j 357	556	685
14'	Live Load L/360			113	122	199	232	370			226	244	3° 8	465
	Min. End/Int. Bearing (in.)			1.5/3.5	1.5/3.5	1.6/4.0	1.8/4.7	2.6/5.6	1	1.5/3.5	1.5/3.5	1.5/3.5	1.6/4.0	1.3,4.7
	Total Load			100	108	130	211	342			200	217	360	422
16'-6"	Live Load L/360			69	. 75	123	145	232	•		139	151	247	290
1	Min. End/Int. Bearing (in.)			1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	2.2/5.5			1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5
	Total Load	1		70	76	127	149	244			140	152	254	299
18'-6"	Live Load L/360		· ·	50	54	S8	103	167	·		99	108.	177	207
	Min. End/Int: Searing (in.)			1.5/3.5	1.5/3.5	1.5/3.5	1.573.5	1.8/4.4		1	1.5/3.5	1.5/3.5	1.5/3.5	1 5/3.5
} -	Totai Load	1		54	59	100	113	193	İ		109	119	200	236
20'	Live Load L/360			59	42	70	S2	133			79	\$5	(41).	:65
1	Min. End/Int. Bearing (in.)			1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.9		1	1.5/3.5	1.3/3.5	1.5/3.5	1.5/3.5
	Total Load	· .				56	66	110		1	<u> </u>	65	112	133
24'	Live Load L/360					41	-18	78	· ·	1	46	50	32	96
	Min. End/Int. Bearing (in.)			· ·		1.5/3.5	1.5/3.5	1.5/3.5		i	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5
	Total Load	1			:	ł	1	67	1	:			67	j 80
28	Live Lond L/360		1					49		ĺ			52	61
	Min, End/int, Bearing (in.)		1			1	ł	1.5/3.5		ł	1	ļ	1.5/3.5	1.5/3.5

General Notes

• Table is based on:

- Uniform loads (beam weight considered) and the more restrictive of simple or continuous span.
- Deflection criteria of L/240 total load and L/360 live load.
- For deflection limits of L/240 and L/480, multiply live load values by 1.5 and 0.75, respectively. The resulting load shall not exceed the total load shown.

Also see General Assumptions on page 3.



[31/z"	Width		1 .			÷	51/4"	Width				
Span	Condition	14"	16"	-18"	20"	51/2"	71/4"	91/4"	9 1/2"	111/4"	117/8"	14"	16"	18"	20"
. •	Total Load	3589				1297	2287	3083	3188	3972	4273	5384			
: 6'	Live Load L/360			İ		870	1879								
	Min. End/Int. Bearing (in.)	4.1/10.3				1.5/3.5	1.7/4.3	2.3/5.9	2.4/6.1	3.0/7.6	3.2/8.2	4.1/10.3			
	Total Load	2414	2885			438	976	2086	2193	2745	2935	3621	4328		
8'	Live Load L/360					380	842	1666	1792						
	Min. End/Int. Bearing (in.)	3.7/9.3	4.4/11.1			1.5/3.5	1.5/3.5	2.1/5.3	2.2/5.6	2.8/7.0	3.0/7.5	3.7/9.3	4.4/11.1		
	Total Load (1937	2294		1	219	.498	1475	1551	2128	2354	2905	3441	:	
9'-6"	Live Load L/360			1				1032	1112	1778	2061				
	Min. End/Int. Bearing (in.)	3.5/8.8	4.2/10.5		ł	1.5/3.5	1.5/3.5	1.8/4.5	1.9/4.7	2.6/6.5	2.9/7.2	3.5/8.8	4.2/10.5		
-	Total Load	1817	2147			177	405	1325	1398	1919	2123	2725	3221		
: 10 ⁷	Live Load L/360					ĺ		893	963	1544	1792				
-	Min. End/Int. Bearing (in.)	3.5/8.7	4.1/10.3			1.5/3.5	1.5/3.5	1.7/4.2	1.8/4.5	2.4/6.2	2.7/6.8	3.5/8.7	4.1/10.3	[· ·	
	Total Load	1333	1709			82	193	781	844	1327	1469	2000	2563		
12'	Live Load L/360	1138	1635					530	572	927	1080	1707	2453		
	Min. End/Int. Bearing (in.)	3.1/7.7	3.9/9.9			1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	2.0/5.1	2.2/5.7	3.1/7.7	3.9/9.9		
	Total Load	975	1253	1563			100	494	535	879	1028	1463	1880	2345	
14'	Live Load L/360	741	1075	1483				339	366	597	697	1112	1613	2225	
	Min. End/Int. Bearing (in.)	2.6/6.6	3.4/8.5	4.2/10.6			1.5/3.5	1.5/3.5	1.5/3.5	1.6/4.0	1.8/4.7	2.6/6.6	3.4/8.5	4.2/10.6	
1	Total Load	684	897	1120	1365			300	326	540	634	1026	1346	1680	2048
16'-6"	Live Load L/360	465	680	945	1263			209	227	371	435	698	1020	1418	1895
	Min. End/Int. Bearing (in.)	2.2/5.5	2.9/7.2	3.6/8.9	4.4/10.9			1.5/3.5	1.5/3.5	1.5/3.5	i.5/3.5	2.2/5.5	2.9/7.2	3.6/8.9	4.4/10.9
	Total Load	488	710	887	: 1082			210	228	382	449	733	1066	1331	1623
18'-6"	Live Load L/360	335	491	686	922			149	162	266	311	502	737	1030	1383
	Min. End/Int. Bearing (in.)	1.8/4.4	2.6/6.4	3.2/8.0	3.9/9.7			1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.8/4.4	2.6/6.4	3.2/8.0	3.9/9.7
	Total Load	387	574	756	922			164	178	300	354	580	861	1135	1384
20'	Live Load L/360	267	393	550	741			119	128	212	248	401	590	826	1112
	Min. End/Int. Bearing (in.)	1.5/3.9	2.3/5.7	3.0/7.5	3.6/9.0			1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.9	2.3/5.7	3.0/7.5	3.6/9.0
	Total Load	221	332	471	634			90	98	168	200	332	498	707	951
24'	Live Load L/360	157	232	326	4 42			69	75	123	145	235	348	490	663
·.	Min. End/Int. Bearing (in.)	1.5/3.5	1.6/4.1	2.3/5.8	3.0/7.5			1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.6/4.1	2.3/5.8	3.0/7.5
	Total Load	135	205	295	405			51	56	100	120	203	308	442	607
28'	Live Load L/360	99	148	208	283			43	47	78	92	149	222	313	425
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.7/4.4	2.3/5.7			1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.7/4.4	2.3/5.7

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Length	100%	115%	125%	100%	115%	125%	100%	115%	125%	100%	115%	125%	100%	115%	125%	100%	115%	125%
5"	10,598	11,202	11,551	15,897	16,804	17,326	21,196	22,405	23,101	33,300	36,685	38,743						
7'	8,740	9,143	9,375	13,111	13,715	14,063	17,481	18,287	18,751	30,016	32,551	34,041						
8'	7,270	7,553	7,716	10,905	11,330	11,574	14,539	15,106	15,432	26,655	28,499	29,565	35,540	37,998	39,420			
9'	6,115	6,323	6,441	9,173	9,484	9,662	12,231	12,645	12,883	23,484	24,845	25,631	31,312	33,127	34,175			
10'	5,203	5,359	5,449	7,805	8,039	8,173	10,407	10,718	10,897	20,667	21,703	22,300	27,556	28,937	29,733			
12.	3,885	3,979	4,033	5,827	5,969	6,050	7,770	7,959	8,067	16,166	16,810	17,180	21,555	22,413	22,907			
- 14'	3,003	3,064	3,099	4,504	4,596	4,649	6,005	6,129	6,199	12,893	13,320	13,566	17,190	17.760	18,088	34,168	35,796	36,736
16.				·						10,483	10,781	10,952	13,977	14,375	14,603	28,498	29,648	30,312
18'						1				8,673	8.390	9,013	11,565	11.853	12,018	24,027	24,371	25,356
20'										7,286	7,447	7,540	9,715	9,930	10,053	20,481	21,118	21,484
22'				;												17,638	18,131	18,413
24'									:							15,333	15,722	15,944

General Notes

• Table is based on:

- Solid, one-piece column members used in dry-service conditions.

- Bracing in both directions at column ends,

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(i) For 12" depth. For at	hers	m	ultiply by [12]0.111

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NOTICE OF MEETING VILLAGE OF FOX POINT PLAN COMMISSION

1.

SCHWEMER HALL MUNICIPAL BUILDING 7200 N. SANTA MONICA BLVD. TUESDAY DECEMBER 3, 1991 4:30 P.M.

AGENDA

- I. Approval of Minutes of November 5, 1991 Plan Commission Meeting
- II. Proposed Land Division: Bergen Drive/Fox Croft Drive Lane
- III. Proposed Change of Use: Dunwood School, 217 W. Dunwood Road
- IV. Any such other business that may properly come before the Commission

A joint meeting of the Fox Point Plan Commission/Building Board was held in Schwemer Hall, 7200 N. Santa Monica Blvd. on Thursday, November 5, 1991 at 4:00 p.m. Those present included:

> <u>BUILDING BOARD</u> Del Wilson Mike West

PLAN COMMISSION Jerome D. Hardt Richard W. Cutler Harold Wolfe Kareth Servis Vincent Martin Noreen R. Cook, Village Manager Mike Lynett, Village Engineer

Also present was Village Attorney Carl W. Backus; Deputy Clerk Constance K. McHugh; and Building Inspector Scott Miller.

Notice of the meeting was mailed to the Fox Point-Bayside-River Hills Herald and to all others as required by State open meeting laws and posted on the official bulletin boards.

MINUTES OF SEPTEMBER 19, 1991 MEETING

On motion of Engineer Lynett, seconded by Mr. Martin, and unanimously carried, the Plan Commission approved the minutes of the September 19, 1991 meeting as presented.

CONDITIONAL USE PERMIT: MANUFACTURING SYSTEMS, INC. 8705 N. PORT WASHINGTON ROAD, BROWN PORT SHOPPING CENTER

JO Ann Kraniger, vice president of Manufacturing Systems Inc., was present for this discussion.

This is a request for a software and development company to be located in the Brown Port Shopping Center. The proposed hours of operation are Monday through Friday, 7:30 a.m. - 7:30 p.m.

On motion of Mr. Cutler, seconded by Mr. Martin, and unanimously carried, the Plan Commission recommended Village Board approval of a conditional use permit for Manufacturing Systems, Inc., 8705 N. Port Washington Road.

CONDITIONAL USE PERMIT: CHRISTMAS TREE LOT, BROWN PORT SHOPPING CENTER PARKING LOT

Veronica Ceszynski, special events coordinator for the Brown Port Shopping Center, was present representing Jeff's Landscaping and Trees.

This is a request for a Christmas tree lot to be located in the parking lot of the Brown Port Shopping Center near the former Kentucky Fried Chicken Building. The lot will be similar to the

1

one located in the parking lot two years ago and will be operated by Jeff's Landscaping and Trees. The proposed hours of operation are Monday through Friday 9:30 a.m. - 10:30 p.m., starting November 29, 1991.

On motion of Mr. Wolfe, seconded by Ms. Servis, and unanimously carried, the Plan Commission recommended Village Board approval of a conditional use permit for a Christmas Tree Lot to be located in the parking lot of the Brown Port Shopping Center, subject to the trees being placed not further east than the southerly projection of the east wall of the former chicken building and subject to the bathrooms being closed off in the building.

CONDITIONAL USE PERMIT: WHIZ KIDS COMPUTER CENTERS OF WISCONSIN, 8711 N. PORT WASHINGTON ROAD, BROWN PORT SHOPPING CENTER

This is a request for a computer skill center for children to be located in the Brown Port Shopping Center. There will be no retail sales from the premises, rather it will be a learning center where children 3 years to 12 years can go to learn how to use computers. The proposed hours of operation are Monday through Saturday, 10:00 a.m. - 6:00 p.m.

On motion of Mr. Cutler, seconded by Engineer Lynett, and unanimously carried, the Plan Commission recommended Village Board approval of a conditional use permit for Whiz Kid Computers, 8711 N. Port Washington Road.

CONDITIONAL USE PERMIT: RUSSIAN RESTAURANT, 6916 N. SANTA MONICA BLVD., FOX POINT SHOPPING CENTER

On motion of Mr. Cutler, seconded by Mr. Wolfe, and unanimously carried, the Plan Commission laid this matter over due to a lack of information.

CONDITIONAL USE PERMIT: THE RED FOX DESIGN CENTER, 8679 N . PORT WASHINGTON ROAD, BROWN PORT SHOPPING CENTER

Linda Thomas was present for this discussion.

This is a request for a furniture and home accessory store to be located in the Brown Port Shopping Center. The store is presently located in Mequon and will be relocating to Fox Point. The proposed hours of operation are Monday through Saturday, 10:00a.m. - 5:00 p.m.

On motion of Mr. Cutler, seconded by Mr. Wolfe, and unanimously carried, the Plan Commission recommended Village Board approval of a conditional use permit for the Red Fox Design Center, 8679 N. Port Washington Road.

2

CONTINUED DISCUSSION OF THE MINUTES OF THE SEPTEMBER 19, 1991 MEETING

On motion of Mr. Wolfe, seconded by Mr. Martin, and unanimously carried, the Plan Commission reopened discussion of the minutes of the September 19, 1991 meeting.

Mr. Wolfe suggested that the first full paragraph on page 2 be changed to read "Engineer Lynett stated the Village had retained Chris Luz of Howard, Needles, Tammen, and Bergendoff (HNTB)".

On motion of Mr Wolfe, seconded by Ms. Cook, and unanimously carried, the Plan Commission approved the minutes of the September 19, 1991 meeting as amended.

CONTINUED DISCUSSION OF THE RUSSIAN RESTAURANT

Faina Kushnir, owner, arrived at the meeting at 4:40 p.m. to discuss this request.

Mr. Cutler made a motion to reopen the discussion of the Russian restaurant that was tabled previously. The motion was seconded by Mr. Martin. The motion carried.

Mr. Kushnir said this will be a Russian style restaurant with a maximum of eight tables, a deli case, and carry out food. Preparation of food will take place on the premises. The proposed hours of operation are 9:00 a.m. - 8:00 p.m., Monday through Sunday.

Mr. Kushnir said the State building inspector inspected the premises and had no objections to the proposal.

On motion of Mr. Wolfe, seconded by Mr. Cutler, and unanimously carried, the Plan Commission recommended Village Board approval of a conditional use permit for the Russian restaurant subject to inspection of the premises by the Village Building Inspector and a report from him to the Village Manager by November 12, 1991 indicating the Village Code is complied with.

PROPOSED CHANGES AT STORMONTH SCHOOL

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Members of the Building Board attended the meeting at this time.

Peter Schuyler, representing BHS Architects, and Matt Gibson and George Haynes, representing the Fox Point-Bayside School District, were present to discuss the proposed changes at Stormonth School.

Ms. Servis said because of her involvement in the project she would not discuss or vote on the matter.

Mr. Schuyler said the intention is to move the functions at Dunwood School to the Stormonth School. To accommodate the relocation and the anticipated growth in the number of students, additions and changes are required to Stormonth School.

Regarding parking and buses, Mr. Schuyler said the vehicle entrance to the site on East Mall Road will be closed and a new entrance and exit on Lombardy Road will be constructed. Additional parking will also be added in the rear of the building. A new turnaround will be located in the front of building for autos, not buses. The existing parking lot in the front of the building will remain as is. A total of 113 parking spaces will be provided as required by the Village Code. Mr. Schuyler said this number includes the counting of one sparking stall off school property that is located on Village property. There will be considerably more parking at Stormonth School than presently exists at Dunwood School.

Other changes include new lighting that will shine downward, relocation of the screened trash enclosure to the area west of the building, fencing to separate the children from the parking lot, and a new entrance to the front of the building.

Mr. Schuyler also presented a landscape plan. The intent is to leave much of the existing landscaping intact and to ad some additional evergreens to screen the parking.

Mr. Schuyler also presented the plans for the additions to the building, the floor plans, and the exterior elevations.

President Hardt said the charge of the Plan Commission is to study the application and hold a meeting jointly with Building After such study and joint meeting, the Plan Commission Board. shall make its report to the Village Board advising the Village Board whether or not the Plan Commission considers that the following standards are met: 1) the proposal is appropriate in the location proposed; 2) the proposal is compatible to the neighborhood; 3) the proposal is not detrimental to the property values of surrounding property; and 4) the proposal is in keeping with the residential character and quality of the Village. The Plan Commission and Building Board shall act separately and action by the Plan Commission or Village Board shall not control or affect action by the Building Board.

Mr. Cutler made a motion to recommend Village Board'approval of the proposed changes at Stormonth School as presented. The motion was seconded by Mr. Wolfe.

Engineer Lynett made several comments. First, he said the number of parking spaces located on the school property is one less than required by the Village Code. The Plan Commission must make a determination if the space located on Village property can be

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included in the actual number. He said he reviewed the proposed lighting and feels it will not be offensive. He has not reviewed the screen of the parking and feels the forester is more qualified to do this. Finally, Engineer Lynett said he reviewed the loading and unloading of buses with the Captain of Public Safety and does not see a problem with the proposed set up.

Mr. Wolfe suggested that a stop sign be located at the exit of the driveway for the buses for safety purposes.

Mr. Schuyler said one more parking space ton be added in the rear parking lot.

Mr. Cutler amended the motion to recommend approval contingent upon one more parking space being added on school property and approval of the landscape plan by the Village Forester and Engineer. The amendment was accepted by Mr. Wolfe. With Mr. Wolfe, Mr. Martin, Mr. Cutler, Manager Cook, Engineer Lynett, and President Hardt voting aye and Ms. Servis abstaining, the motion carried.

Mr. Gibson said a committee has been appointed to study options on the use of Dunwood School. The first meeting will take place on November 6, 1991.

Mr. Wolfe would like the record to show his association with the project is with the disposal of Dunwood School only.

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The Plan Commission adjourned at 5:30 p.m.

Respectfully Submitted,

Constance C. inchag

Constance K. McHugh Deputy Clerk