ILHR 82

#### ILHR 82

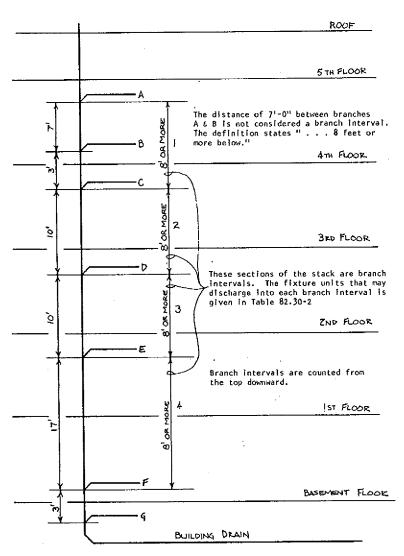
#### APPENDIX

The material contained in this appendix is for clarification purposes only. The notes, illustrations, etc., are numbered to correspond to the number of the rule as it appears in the text of the code.

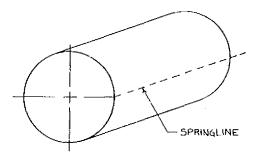
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A Delivery of the Control of the Con

A-82.11 (29) Branch intervals.



A-82.11 (140) Springline of pipe.



On a round pipe the springline is along the horizontal centerline.

A-82.20 and A-82.21 FORMS. The following forms (DILMR SBD-6154, 6677, 6099, 6690, 6212, 6479, 6192, 6114, 6155, and 7278) are used by the department in administration of this administrative code. Copies of these forms are available from the Division of Safety and Buildings, Plumbing Bureau, P.O. Box 7969, Madison, Wisconsin 53707.

## INDUSTRY, LABOR AND HUMAN RELATIONS $$_{\rm 1LHR~82}$$

A-82,20-82.21 FORMS. The following forms are referred to in ss. ILHR 82,20 and 82,21. Copies of the forms are available from the Bureau of Plumbing, P.O. Box 7969, Madison, Wisconsin 53707.

### WISCONSIN ADMINISTRATIVE CODE

ILHR 82



## **GENERAL PLUMBING**

PLAN APPROVAL APPLICATION

STATE OF WISCONSIN OILER DIVISION OF SAFETY & BUILDINGS BUREAU OF PLUMBING 201 E. Washington Avenue, Rm. MI P.O. Box 7059, Madagon, MI 53707 508 266-3659

A SERVICE DEPOSIT VALUE OF THE PARTY OF THE	1		
1. PROJECT INFORMATION (type or print clearly)	Date Submitted.		
Name of Submitting Party (Plans returned to same)	Project Name		
Street & No.	Project Location - Street & N	o. or Legal Description	
Oty State Zp	Ctv 7	County	
	V:Fage ☐ OF	1	
Telephore No. (Include area code)	Town 3 Designer (Plumbing)	Telephone No	L finclude area ecid
2. PLANS FOR  ① New Building ② Addition ① Permotel	Owners Name Street & No.	Telephone No	o, linciude area code
☐ Revision to plumbing plan No			
Ze. Fee For Rinisions - \$20.00	. A 12 1	Svete	Zφ
3. THIS APPLICATION IS FOR:	W UTATIONS	4. FEE	FOR OFFICE
Check Appropriate Box(es) (50 RK)	age For Remodeling Fees)	SUBVITTED	USE ONLY
28. Sanitary Building Sower, Drain, Wriste & Vice of Sanitary	n. Sewer Diatteters	0.00 - 4s	
36. Sandary Building Sever Only	s, Sawer Diameters	000 = 45	
3c. Building Water Distribution Septem	tar Service Diameters Inches x \$2	0 00 × 4c	l
3d.   B siding Water Service Only	rer Service DiametersInches x \$1	0 00 + 41	
3e. I Building Storm Sewer and Dramage System Sum of Sto	voi Siwer DiametersInches v. \$	4 00 = 4c	]
31. Private Interceptor Main Sewar Sum of Lar	gest Diameters Inches a S		
39. Trivate Wigter Valm		= 49	ļ <del></del>
3. Partion for Veniorce transit to submitted on form # DILHR	\$80,6690) \$10	000 = 4	i
3). D Reduced Pressure Zone Principle			
Type Back Row Preventer		- 41	ļ
31. Turf Sprinkler System			ļ
31. U Mots te Home Parks	i \$155 00   76 - 69 \$ tes 5210 00 tes 5270 00   Oyer 125 5/tes 5335 00	• 4t	[
31 - 123 Sr 3m. Manufactured Homes, Each Model Number of			
2 11 12 14 14 14 15 15 15 15 15 15 15 15 15 15 15 15 15	SUBTO	- 47	
31. Prior by Pian Reven (Walk-Thru) Enter Same	Amount as Rubrossi		
	TOTAL		
5. ENCLOSURES    Tended   Under upgrate cover, phase and the force.   Two   Trace according and   Dios according to the amount of the amount o	Cet'ors Write	n by	
6. REOUCED FRESSURE ZONE TYPE BACKFLO. PREVENTER DA	1TA		
indicate Value Side, Manufacturer, Model No. and Location to Build a	ng (Room No., etc.) for each value.		
1	1		
			. —
2			

Note: Fees pursuant to Wo. Adm. Code, Chapter Ind. 69 may be subject to change annually Effective July 1, 1934

Use Additional Sheat If Nieder DILHR 580 6154 (R. 3:84)

## INDUSTRY, LABOR AND HUMAN RELATIONS 167

#### 7. PLAN SUBMITTAL SHALL INCLUDE THE FOLLOWING IN ACCORD WITH CODE SECTION ILHER 82.25.

- A. One complete set of plans and specifications with one additional copy of plumbing drawings.
- B. Plans shall include:
  - 1. Plot plan showing sewer and water.
  - Floor plan showing building drain, water distribution mains and all fixtures and equipment to be installed.
  - Riser diagrams of waste, vent and water distribution, with pipe sizes and fixture unit loads shown.
- Complete water calculations in accord with s. ILHR 82.13(4)(s).
- 5. Remodeling or additions shall include existing loads.
- Plens including common conneiship plumbing systems must be accompanied by form #DILHR-S8D-7066.

#### 8. EXAMINATION FEES FOR ADDITIONS AND REMODELLING.

When new or relocated features or both are connected to the existing piping inside a building the fee shall be determined in accordance with the following procedures:

- A. "Sanitary Building Sewer, Drain, Waste and Vent."
  - Total all of the drainage fixture units that are being added or relocated.
  - Refer to s. ILHB 82 03(3) Table 2, Wal. Art. Cost and determine the horizontal drain size that the police quired if all new or relocated fixtures especially through one pipe.
- Note: Disregard the asteriak limitation regarding 6 or 8 fisture unit pipe size. This pipe size is used for determining the fee only and does not recessarily mean this pipe size is used in actual design or installation.
- 3. Determine fee based on Table 59,23-1 1.

#### B. 'Building Water Distribution System'

- Total all of the water supply fixture units that are being added or inforated, using x ILHR 82:13 Table 13, Wis, Adm. Code, and connect to gallons per minute (GPM) in accordance with 5, ILHR 82:13 Table 14, Wis Adm. Code.
- The fees shall be determined in accordance with the GPM demand of the new or relocated fixtures as specified in Table 69,23.2.

Table 69.23-2

GPM																											FEE
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77			,		٠,											,				١.	 					5	\$40,00
119						,	,						,	-					·		 		_				\$50,00
170																					 		4			5	\$60.00
293												,									 						\$0.00

#### C. 'Building Storm Sever and Drainage System.'

- Total all of the roof area that the new or relocated roof
  drains sense. For added on relocated offer water drains
  inside the building receiving continuous or semicontinuous discharge into the building storm drain,
  each gallon per minute (GPM) of dosharge shall be
  computed as 20 square feet of roof area.
- Refer to s. ILHR 82.32 Table 11, Wall Adm. Code, the column for "4" pitch, and determine the horizontal drain size that would be required if all new or relocated fixtures discharged through one pipe. Use this pipe size for determining the fee.
- 3. Determine the fee based on Table 69.23-1 5.

### WISCONSIN ADMINISTRATIVE CODE

ILHR 82

Detach And Return Upper Portion Of This Form With Any Return Correspondence	STATE OF WISCONSIN DILHR DIVISION OF SAFETY B BUILDINGS BURSAU OF PLUMBING 201 E. WASHINGTON AVE. RIA 141 P.O. BOX 7698 MAGISON, WI 53707 608-206-3315
DATE:	PHOJECT:
	2LAN1D. #
	CH HERE
PROJECT NAME	PLANID.#
This is to soknowledge receipt of your plans and specifications for the	abore-indicated project.
Prefirmmery review indicates the required fee is \$  Underpayment. Please submit additional fee.  Plan accepted for review.  No fee has been remitted. Plans submitted with no fees will be held in abeyance.	Fee received is \$  Dorarpsygent. Refund forthcoming.  Plant Rush returned.  Addition Valurmation required. SEE BELOW.
	IV. Reduced Pressure Zone - Type Sackflow Presentor
11. Building Sewers - Building Drains - Drain Waste & Vent  □ Proof plan showing building sewer.  □ Floor plan showing building drain.  □ Statustics shown on rivers or isometric diagrams.  □ Pitch.  □ Elevation of sever with terrain elevations.  □ Sewer access focation.  □ Ventring.  □ Traps.  □ Materials and specifications.  □ Sewer access and specifications.  □ Detail of the waste.  □ Detail of the waste.  □ Grease interceptor and sink compartment sizes.	certified tester.  V. Private Interceptor Main Sewer (sanitary and/or storm)  [Materia's and specifications.  [Flow salvalations.  [Elevation of saver and manhote flow lines.  [Finish grade contours or profile of system.  VI. Sewage Grinder Pumps  [Manufacturer and/or model number of pump and/or basin.  [Elevation of building drain and main sener.  [Location of grinder pump.  [Relative location to any nearby water line.  [Cross section of sump showing pump(s).
III. Water Supply, Distribution and Service	VII.Pre-Fabricated Units  [Model number or specific name of unit and/or play tree.  [Manufacturer's catalog of waste and water pipe and fittings with waste fitting sadd inted.  [Detailed waste and water piping diagrams identifying every fitting with its amountations.]

## INDUSTRY, LABOR AND HUMAN RELATIONS $$_{\rm ILHR~82}$$ . 169

DILHR	PLAN APPROVAL  General Plumbing Plans Private Sewage Plans	Safety and Buildings Division Bureau of Jambing PO Box 7969 Mallion, W1 51707 Telephone, 1608/266-3815
		Office USE ONLY Plan Mentification No Gations for Day
	•	PRIORITY PLAN RIVIEW ONLY Plan Review
	n.E	5 Pedition For Modification 5
Project Name	M Project Loca	tion - Street No. or Legal Description
1 City :: V/Age	tion of SAMPARTIES	Crastly
based on Chapter 145. Wiscocsin St is corangent upon complained will city, village, township or county she plans with the department's appro- made.  The FOR GENERAL PLUMBIN	ators and the West osin Administrative Croke The cony at public and shown on the plans. All terms the like addanced prior to constitution. The lectured plan all stamps at the construction see. The installer sheal G PLANS:	one with applicable code requirements. This approval in plans are stamped "conditions" y approved. This approva- cate model must be contexted. As permits required by the ander responsible for this maid bear about the process to readly the appropriate inspector when impactives can be readly the appropriate inspector when impactives can be the oral commissional before the expression date, new plan-
approval must be obtained  THE FOR PRIVATE SEWAGE P	LANS:	permit is obtained at will expire the day the initial santar
Comments.		:
8 <sub>y</sub> r.		

| DPS | Local Pl | Romber | Ottar

If Questions Contact → Plans Approved By:

CO 11 OWS 12 County 12 CAV-SAWAR 11 Owner Date Approved

HAR & Rev. Sen Section Limbters Need Analysis Novel Department of Agrands.

## WISCONSIN ADMINISTRATIVE CODE

ILHR 82

Polition for Modification of an Administrative Rule	WISCONSIN DEPARTMENT OF INDUSTRY, LABOR AND HUMAN RELATI	ons	OFFICE USE ONLY Pelicion No.
PLOMBING FRES	DIVISION OF SAFETY & BUILDINGS		ENo.
····	P.O. BOX 7969, MADISON, WI 53707		1D-No.
		***************************************	
Name of Owner		_	
	Building Oppupation on Use	X4E	t, Acchitect or Engineering Firm oz er Planiste
Соправ	Teaant Name, (fan)		
Street & No.	Bulding Location, Street & No.	Stree	t & No.
City State & Zop	Cm County	City	State & Zip
Figur	Flan Numbers (If Known)	Fibon	
WISCONSIN ADDRUGED AND THE	F DELVC RETURNED		
WISCONSIN ADMINISTRATIVE RUL	E BEING PETHHONED		
1. Rufe of the t	Visconin Administrative code cannot be entirely		a uue ta use tallo Aing (e2500);
	e rule, the same A alternative is proposed as a		
2. In lied of compaying exactly, with in safety or health:	e rule, the Mail alternative is proposed as a r		of providing an equivalent degree of
3. Supporting arguments (If necessary,	use back side of fram to provide a detailed draw	ingl:	
	<b></b>		
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DILHR 58D 6690 (R. 03 83)

# INDUSTRY, LABOR AND HUMAN RELATIONS ILHR 82

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## WISCONSIN ADMINISTRATIVE CODE

ILHR 82

DATE:	SAFETY & BUILDINGS	DIVISION
	Bureau of Plum 201 East Washi P.O. Box 7969 Madison, Wiscon	ngton Avenue
	Plan Identification No.	
Re:	<del></del>	
	<u>. · · · · · · · · · · · · · · · · · · ·</u>	
Plans and specifications have identification number. Prelihave not been sealed or stams. ILHR 83.08 (2) (a), Wisconstanting the plans	beeg interved and assigned the above princh eview of these plans indicate to a second with section ILHR 82.20 or in Administrative Code.  It this time, please have the party ore	
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OILHR SBD-6212 (R.11/83)

# INDUSTRY, LABOR AND HUMAN RELATIONS 11LHR 82

### WATER CALCULATION WORKSHEET

Information Needed for Water Service Sizing
1) Demand of building in G.P.M.
<ol> <li>Low pressure at main in street (or at external pressure tank).</li> </ol>
3] Difference in elevation. Main to meter (or external pressure tank to building control valve).
4) Size of water meter (if applicable),
5)Oeveloped length from main to meter (or external pressure tank to building control valve).
Your First Goal is to Find the Available Pressure After the Water Noter (or at building control valve). To obtain this, you must
Find pressure loss due to friction in water service.  Example: Demand of the building is 20 (3.M. and we want to use type "K"  copper for the water service. We think "service is necessary. Look at "K" copper table and follow 20 3.M horizontally to the 1" line.  Look straight down to find pressure loss per 100' which is approximately 17 p.s.i. On this building and service is 120' long. The formula for finding the pressure loss thru service is:  17
$100 = 120$ divide, $17 \times 120 \div 100 = 20$ p.s.i. loss due to friction.
2) Find pressure loss due to elevation, main to meter (or external pressure tank to building control valve) multiply difference in elevation by .434.  3) Find pressure loss due to meter. (from manufacturer, ANWA, or Water Distribution Manual).  4) Subtract the loss due to friction (Step 1), loss due to elevation (Step 2), and loss due to meter (Step 3) from the low street pressure (or low pressure at external pressure tank). This gives you available pressure after the water meter (or at the building control valve).
Information Needed for Water Distribution Sizing
Using the following formula, find permissible uniform pressure loss for friction (p.s.i./100' of pipe) $A = \frac{B - (C + D + E) \times 100}{F}$ WHERE:  A Permissible uniform pressure loss for friction. (p.s.i./100' of pipe).
8. Available pressure after water meter (at the building control valve or low pressure at internal pressure tank).
CPressure needed at controlling fixture.
D Difference in elevation between water meter (building control valve or internal pressure tank) and controlling fixture in feet x .434.
E Pressure loss due to heater (3 p.s.i.), softener, etc.
F Total length between water mater (building control valve or internal pressure tank) and controlling fixture in feet x 1.5.
With permissible uniform pressure loss, go to applicable table for distribution sizing.
DILHR-SBD-6479 (R. 11/83)

# WISCONSIN ADMINISTRATIVE CODE 11.HR 82

PLB-1 IN	SPECTION REPORT		Labo	artment of Industry, or & Human Relations & Buildings Division Bureau of Plumbing
Name of Premises			Date	Plan I.D. No.
Street	City		County	Sanitary Permit #
Master Plumber & Firm N	lame Addre	÷\$ \$		
Journeyman Plumber	Addre	ss		
Owner	Addre	:55		
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Discussed with		Signature	<del></del>	
( )See Attached.				
DILHR-SBD-6192 (9.11/82)	'Stona	lure of Dist. Pluat	100 Sun 10-511	e Waste Specialist



Bureau of Plumbing 201 East Washington Avenue P.O. Box 7969 Madison, WI 53707

#### ATTENTION

#### NUTICE OF INSTALLATION

The enclosed plans for the reduced pressure zone principle type backflow preventer(s) have been approved by the department. Before the unit is installed, this form must be completed by the plumber making the installation. Return completed form to the Bureau of Plumbing, P.O. Box 7969, Madison, Wisconsin 53707. FAILURE TO DO SO CANCELS THE APPROVAL FOR INSTALLATION.

E AND ADDOCCC AT ADA.		INSTALLATION:
E WUN WONKE22 OF SKAA	ECT:	11
XE SIZE	SERTAL NUMBER	LOCATION IN BUILDING
VE 215E	SERTAL HORSER	COCKETON THE BUTCHING
	SERIAL NUMBER	<del>}</del>
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E AND ADDRESS OF INST	TALLER:	

## WISCONSIN ADMINISTRATIVE CODE 11.HR 82

(Reduced Pressure Zone Principle Type Backflow Preventers)
FILL OUT THIS FORM COMPLETELY

#### DEPARTMENT OF INDUSTRY, LABOR AND HUMAN RELATIONS Division of Safety and Buildings Bureau of Plumbing

CE	EVIDENCE OF L DIFFERENTIAL YALVE	EAKAGE RELIEF		_ COUNTY	
CE OPERATION KAGE	EVIDENCE OF L DIFFERENTIAL YALVE	EAKAGE		WEEKLY	(Zip)
OPERATION KAGE	EVIDENCE OF L DIFFERENTIAL VALVE	EAKAGE REL 1EF		WEEKLY	INSPECTION
OPERATION KAGE	EVIDENCE OF L DIFFERENTIAL VALVE	EAKAGE RELIEF		WEEKLY	INSPECTION LOG
OPERATION KAGE	DIFFERENTIAL VALVE YES	RELIEF	E	WEEKLY	INSPECTION LOG
OPERATION KAGE					
	45	W.	INSPECTION DATE REPAIRED BY	ву	
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FILL OUT THIS FORM COMPLETELY AND RETURN TO: DEPARTMENT OF INDUSTRY, LARDY AND MUMAN RELATIONS DIVISION OF SAFETY AND BUILDINGS, BURFAU OF FLUMBING P.O. BOX 7969, MADISOV, WI 53707

ANUFACT	URER	MODEL	S	3178	SERIAL V	MBER		
	PROJECT				COUNTY			
DDRESS	(street, city, zip)							
OCATION	OF DEVICE IN BUILD	ING						
	CHECK VALVE #1		CHECK VALVE #2	LE	DIFFERENTIAL PRESSURE RELIEF VALVE		COM	MENTS
NNUAL TEST	1. LEAKED 2. CLOSED TIGHT		t, LDKAM Z <b>S</b> LISED TLOHE		OPENED AT REDMICEO PRESSURE DID NOT OPEN			
R E P A I R S	74NED . ACED: ULSC SPRIM GUIDE PIN RETAINER HINGE PIN SEAT DIAPPRAGM OTHER, DESCRIBE		CLEANED REPLACED: DISC SPRIMS GUIDE PIN RETAINER HINGE PIN SEAT DIAPSRACM OTHER, DESCRI	RE	CLEANED REPLACED: DISC: USPER LOWER SPAING DIAPHRACM: LARGE: UPPER LOWER SMAILL SFAT: UPPER LOWER SMALL SFAT: UPPER LOWER SMACER: LOWER OTHER, DESCRIPE			
PINAL TEST	CLOSED TIGHT	0	CLOSED TIGHT		OPENED AT REDUCED PRESSU			
THE ABO	OVE REPORT IS CERTIF	ED TO	BE TRUE, CERIEF	ICATION	ı			
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#### WISCONSIN ADMINISTRATIVE CODE

ILHR 82

A-82.20 (2) AGENT MUNICIPALITIES. The department has designated to the following municipalities, the authority to review and approve plumbing plans and specifications for those plumbing installations to be located within the municipality's boundary limits and which require approval under s. ILHR 82.20 (1) (b).

Kenosha Muskego Beloit Madison Oconomowoe Eau Claire Manitowoc Oshkosh Green Bay Mequon Racine Greenfield Milwaukee Two Rivers

A-82.20 (4) The following is a list of Designated Management Agencies and the counties they serve.

#### DESIGNATED MANAGEMENT AGENCY:

Harlan P. Kiesow, Clearing House Review Coordinator

East Central Wisconsin Regional Planning Commission

140 Main Street Menasha, WI 54952 (414) 729-1100

William N. Lane William N. Lane Director, Environmental Resources Planning Dane County Regional Planning Commission Room 523, City County Building Madison, WI 53709 (608) 266-4417

Patrick M. Valle, Senior Planner Brown County Planning Commission Room 608, City Hall 100 North Jefferson Street Green Bay, WI 54301 (414) 497-3633

Kurt W. Bauer, Executive Director Southeastern Wisconsin Regional Planning Commission

916 North East Avenue P.O. Box 769 Waukesha, WI 53187-1607 (414) 547-6721 Brown

Dane

Washington, Ozaukee Waukesha, Milwaukee Walworth, Racine, Kenosha

AFFECTED COMMUNITIES

COUNTIES SERVED

Menominiee, Shawano,

Waupaca, Outagamie,

Waushara, Marquette Green Lake, Winnebago, Calument, Fond du Lac

The following is a list of Sewer Service Area Plans approved by the Department of Natural Resources. For each Sewer Service Area Plan the approved Planning Agency and affected communities are shown.

#### CONTACTS - SEWER SERVICE AREA PLANS

#### Eau Claire - Chippewa Falls

Kevin Jones, Director West Central Wisconsin Regional Planning Commission 124 1,2 Graham Avenue Eau Claire, WI 54701 (715) 836-2918

City of Eau Claire City of Altoona City of Chippewa Falls Town of Hallie Town of Seymour Town of Union Town of Washington

#### Hudson

Richard Thompson, County Planner St. Croix County Planning Office Courthouse Hudson, WI 54016 (715) 386-5581

Register, February, 1985, No. 350

City of Hudson Town of Hudson Town of St. Joseph Village of North Hudson Town of Troy

## INDUSTRY, LABOR AND HUMAN RELATIONS

#### Stevens Point

Bill Burke or Chuck Kell Portage County Planning Department County - City Building 1516 Church Street Stevens Point, WI 54481 (715) 346-1334 City of Stevens Point Village of Whiting Village of Plover Village of Park Ridge Town of Hull Town of Plover Town of Linwood

#### Wausau

Joseph Pribanich Marathon County Regional Planning Commission Courthouse Forest Street Wausau, WI 54401 (715) 847-5227 City of Wausau Village of Rothschild City of Schofield Town of Weston Town of Stettin Town of Rib Mountain Town of Kronenwetter

#### Wisconsin Rapids

Gary Popelka Office of County Planning Wood County Courthouse 400 Market Street Wisconsin Rapids, WI 54494 (715) 421-8466 City of Wisconsin Rapids Vilage of Biron Town of Grand Rapids Town of Rudolph Town of Sigel Town of Seneca Town of Grant

A-82.20 (8) FEES. The following reprint of s. Ind 69.23 (1) may be used to determine the amount of fee required for general plumbing plan review by the department.

Ind 69.23 Plumbing and private sewage systems. (1) PLUMBING PLAN EXAMINATION FEES. (a) Applicability. Plan examination fees for preliminary or complete plans shall accompany the plans and specifications when submitted. If the department determines upon review of the plans that inadequate fees were provided, the necessary additional fee shall be provided prior to departmental approval.

(b) Examination fees. The plan examination fee shall be determined in accordance with Table 69.23-1.

#### Table 69.23-1

Type of Review	Fee
1. Sanitary drain and vent system	S 20,00 per inch diameter of each bldg. sewer
2. Sanitary building sewer only, no d	rain and vent
3. Building water distribution system	1
Building water service only, no wa distribution system	ater
5. Building storm and clear water dr	ain system
<ol> <li>Sanitary private interceptor main determined on the largest diamete of each interceptor main sewer</li> </ol>	sewers,
7. Private water main	\$ 35.00
8. Controlled roof drainage system, of include building storm sewer	loes not\$ 30.00
backflow preventer	ype\$ 35.00
10. Turf sprinkler system	\$ 30.00

#### 180

#### WISCONSIN ADMINISTRATIVE CODE

#### ILHR 82

11.	Mobile home parks; 1-25 sites	\$155.00
	26-50 sites	
	51-125 sites	
	Over 125 sites	\$335.00
12.	Manufactured homes, each model	\$250.00

- (c) Examination fees for additions and remodelling. When new or relocated fixtures or both are connected to the existing plping inside a building the fee shall be determined in accordance with the following procedures;
- Sanitary building sewer, drain, waste and vent. a. Total all of the drainage fixture units that are being added or relocated.
- b. Refer to s. ILHR 82.30 Table 82.30-2, and determine the horizontal drain size that would be required if all new or relocated fixtures discharged through one pipe.

Note: Disregard Note c limitation regarding water closets. This pipe size is used for determining the fee only and does not necessarily mean this pipe size is used in actual design or installation.

- c. Determine fee based on Table 69.23-1 1.
- 2. Building water distribution system. a. Total all of the water supply fixture units that are being added or relocated, using s. ILHR 82.40 Table 13, and convert to gallons per minute (GPM) in accordance with s. ILHR 82.40 Table 14.
- b. The fees shall be determined in accordance with GPM demand of the new or relocated fixtures as specified in Table 69.23-2.

Table 69,23-2

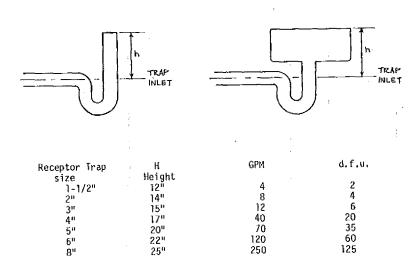
GPM	FEE	-
6	S10.00	
12	\$15.00	
21	\$20.00	
31	\$25.00	
46	\$30.00	
77	\$40.00	
119	\$50.00	
170	S60.00	
298		

- 3. Building storm sewer and drainage system. a. Total all of the roof area that the new or relocated roof drains serve. For added or relocated clear water drains inside the building receiving continuous or semi-continuous discharge into the building storm drain, each gallon per minute (GPM) of discharge shall be computed as 26 square feet of roof area.
- b. Refer to s. ILHR 82.36 Table 82.36-1, the column for  $\aleph''$  pitch, and determine the horizontal drain size that would be required if all new or relocated fixtures discharged through one pipe. Use this pipe size for determining the fee.
  - c. Determine the fee based on Table 69.23-1 5.
- (d) Priority plan review. An appointment may be made with the department to facilitate the examination of plans in less than the normal processing time. The plans shall comply with the provisions of s. ILHR 82.20. Delivery of the plans for priority plan review shall be made in person. The fee for this type of plan examination shall be determined at twice the normal rate.
- (e) Reproduction fee. If the correct number of plans or specifications have not been submitted, a minimum reproduction fee of \$7.00 per set shall be charged except that reproductions exceeding \$7.00 per set shall be charged actual costs. Reproduction fees shall be charged to the party submitting the plans.
- (f) Plan approval additional copies. Approval for sets of plans in excess of 3 sets shall be provided upon receipt of a fee of \$10.00 plus \$3.50 per plan sheet.
- (g) Revisions. The fee for revisions to previously examined plans shall be \$20.00 per plan. This fee applies when plans are revised for reasons other than those that were requested by the department.
- (h) Projects without approval. The fees specified in pars. (b) to (g) shall be doubled for those projects for which the installation of plumbing has started without department approval.

A-82.30 (4) The following tables lists the maximum GPM which can be expected to readily flow through a given size trap where the receptor has a height as indicated.

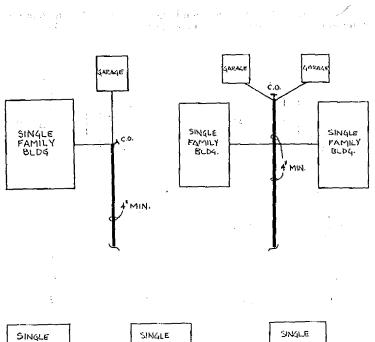
Also listed is a maximum drainage fixture unit load which a given size receptor trap may be expected to adequately receive.

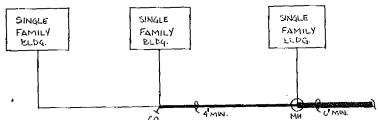
Note: The department recommends an individual 4-inch diameter minimum trap and drain pipe for a commercial type dishwasher.



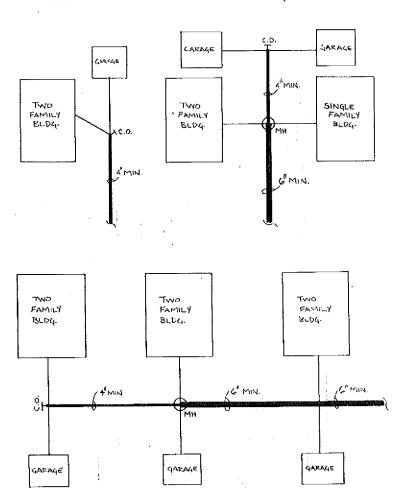
ILHR 82

A-82,30 (4) (d) Minimum size of private interceptor main sewers.

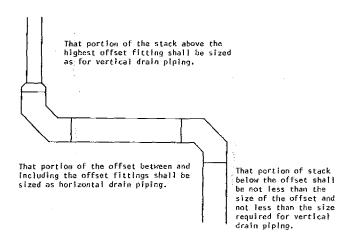


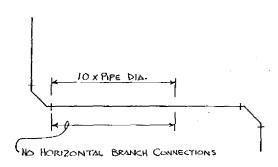


A-82.30 (4) (d) Minimum size of private interceptor main severs.

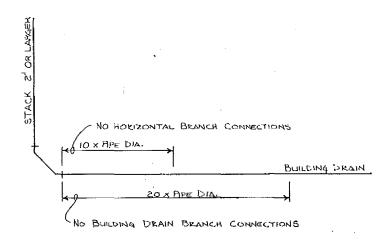


A-82,30 (6) (b) Offsets in vertical drains.

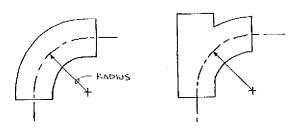




A-82.30 (7) Horizontal branch drain connection at base of a stack.

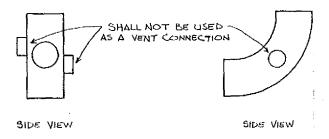


A-82.30 (8) Measuring radius of a fitting.

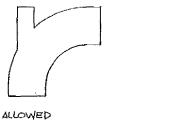


ILHR 82

A-82.30 (9) Drain fittings and connections.



SIDE INLETS



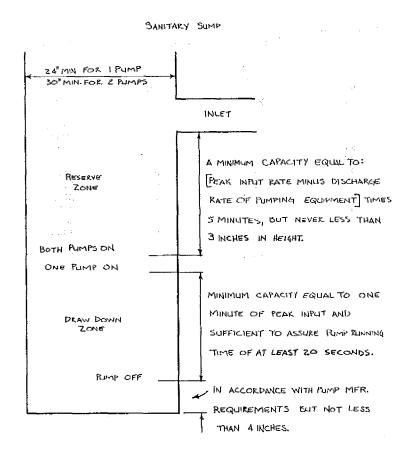
(SIDE VIEW)



NOT ALLOWED (TOP VIEW OR SIDE VIEW)

HEEL INCETS

A-82.30 (10) (a) Determining required capacity of sanitary sump.

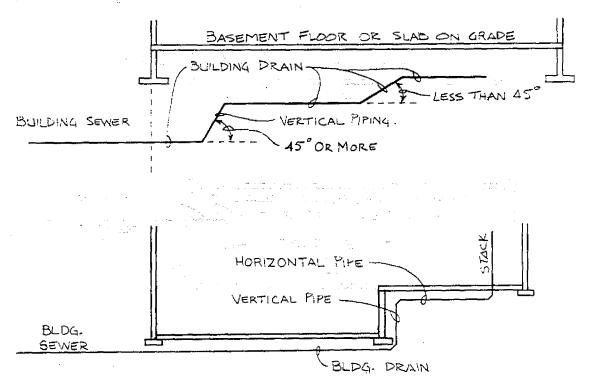


ILHR 82

A-82.30 (10) (a)

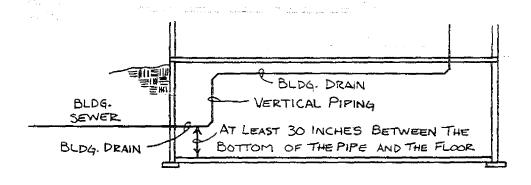
# Capacity of Sumps (in gallons)

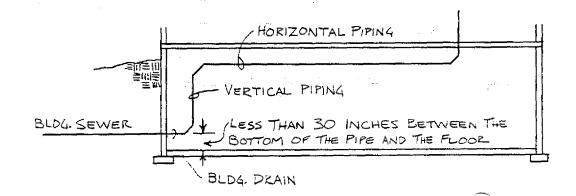
Diameter of		Diameter of	
sump in inches	Volume in gal/ft	sump in inches	Volume in gal/ft
24	23.5	41	68.6
25	25.5	. 42	72.1
26	27.6	43	75.5
27	29.7	44	79.1
$\frac{5}{28}$	32.0	$\frac{1}{45}$	82.7
29	34.3	46	86.5
30	36.8	47	90.2
30 31			
	39.2	48	94.0
32	41.8	54	119.0
33	44.5	60	147.0
34	47.2	66	178.0
35	50.0	72	211.5
36	52.8	78	248.4
37	55.9	84	288.1
38 .	59.0	90	330.8
39	62.1	96	376.3
40	65.3	108	477.3
20	00.0	100	X1 110



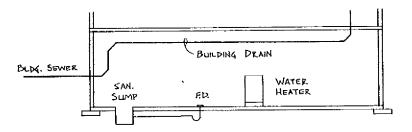
190

A-82.30 (11) (a) Building drains serving dwelling units.

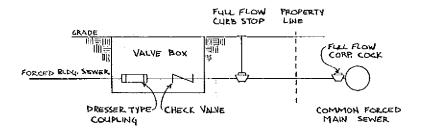




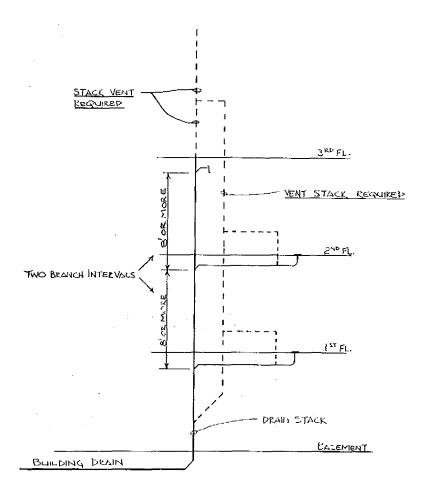
A-82.30 (11) (a) Floor drain required.



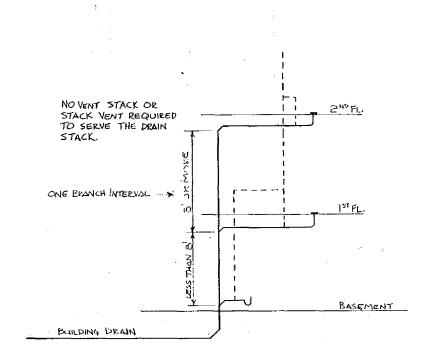
A-82,30 (11) (e) Connection to pressurized public sewer.



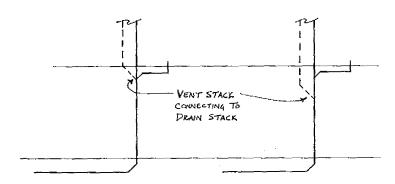
A-82.31 (4) (a) Where a vent stack and stack vent are required.

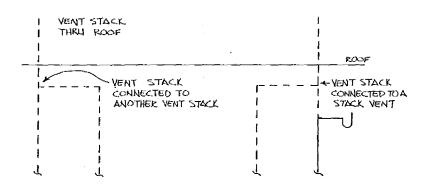


A-82.31 (4) (a) Where a vent stack and stack vent are not required.

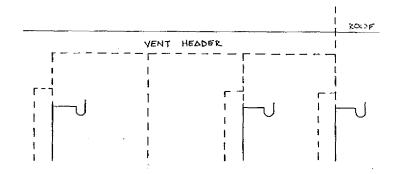


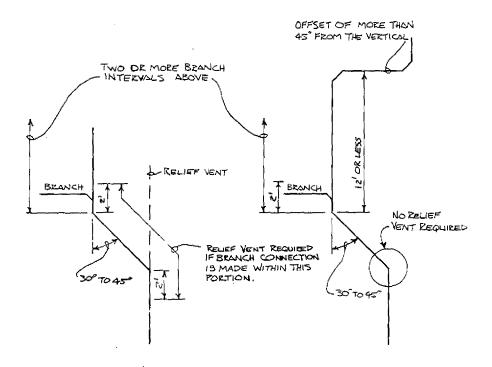
A-82.31 (4) (b) Installation of vent stack and stack vent.



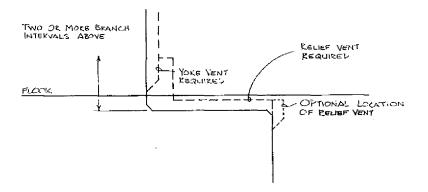


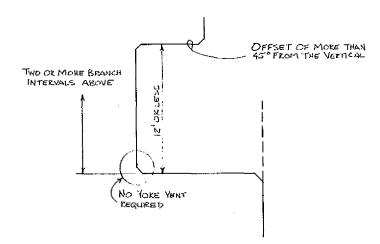
A-82.31 (4) (b) Installation of vent stack and stack vent.





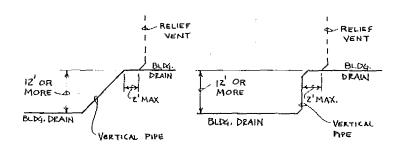
A-82.31 (5) (b) Relief and yoke vents for offsets of more than 45 degrees.

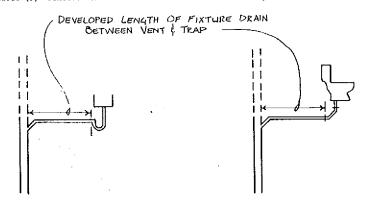




H.HR 82

A-82,31 (7) Relief vents for building drains.





WRERE TRAP IS NOT AN INTEGRAL PART OF THE FIXTURE

WHERE TRAP IS AN INTEGRAL PART OF THE FIXTURE



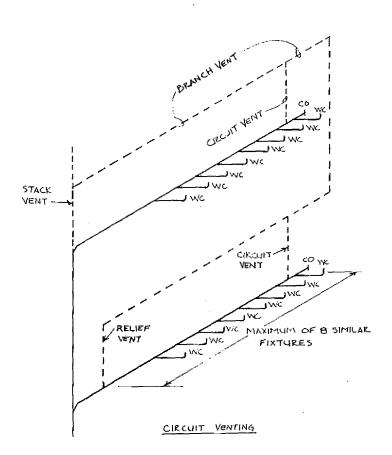
VENT CONNECTING TO HORIZONTAL DRAIN PIPING

VENT CONNECTING TO VERTICAL DEAIN PIPING BY MEANS OF A BY MEANS OF A SANITARY TEE FITTING

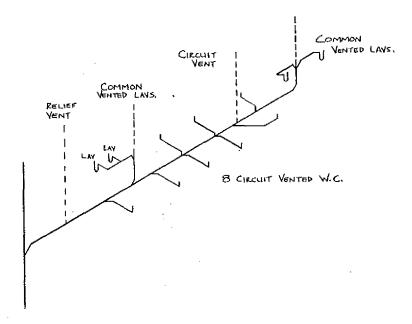
Register, February, 1985, No. 350

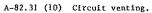
WYE PATTERN FITTING

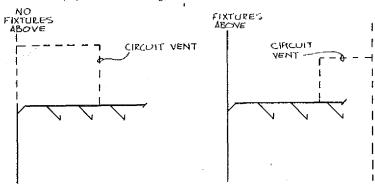
A-82.31 (10) Circuit venting.



A-82.31 (10) Circuit venting.

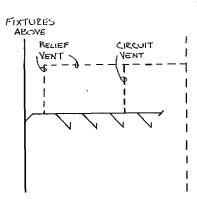






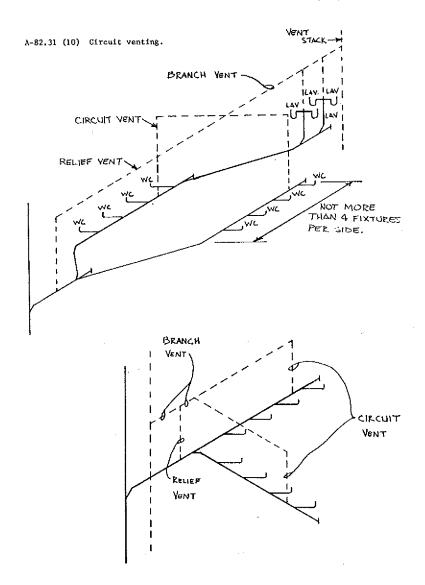
### CIRCUIT VENTING 3 FIXTURES

# NO FIXTURES ABOVE LIRCUIT VENTS



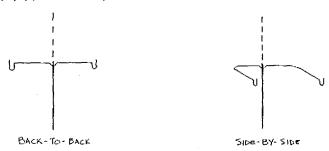
CIRCUIT VENTING 4 OR MORE FIXTURES

### INDUSTRY, LABOR AND HUMAN RELATIONS $_{\rm ILHR\,82}$



Register, February, 1985, No. 350

A-82.31 (11) (a) Common vents, vertical drains.

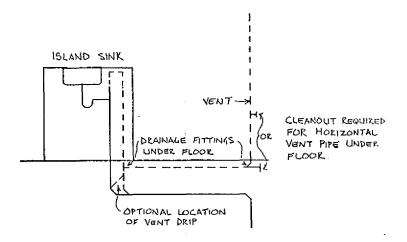


COMMON VENT SERVING ANY TWO FIXTURES

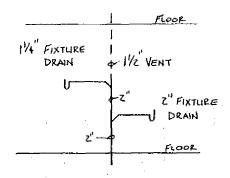
A-82,31 (11) (b) Common vents, horizontal drains.

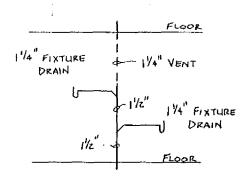
COMMON VENTS SERVING TWO EQUATORIES OR TWO COMPARTMENTS OF ONE KITCHEN SINK

A-82.31 (12) Island fixture venting.



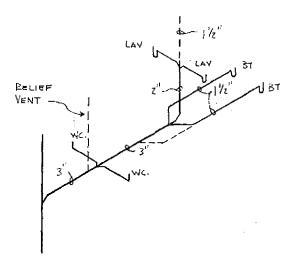
 $\Lambda$ -82.31 (13) (a) Vertical wet vents.



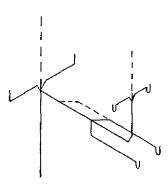


VERTICAL WET VENT

A-82.31 (13) (b) Horizontal wet vents.



### HORIZONTAL WET VENTS

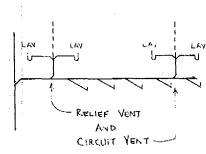


BACK TO-BACK TOP FLOOR

A-82.31 (13) (c) Wet venting - floor outlet fixtures.

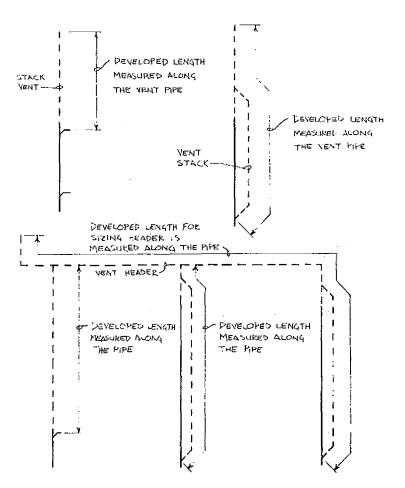
# INDIVIDUAL VENT FOR FLOOR CUTLET FIXTURE SERVING AS A WET VENT

## COMMON VENT FOR FLOOR OUTLET FIXTURES SERVING AS A WET VENT

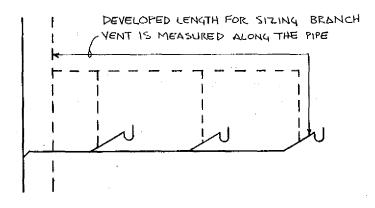


SERVING AS A WET VENT

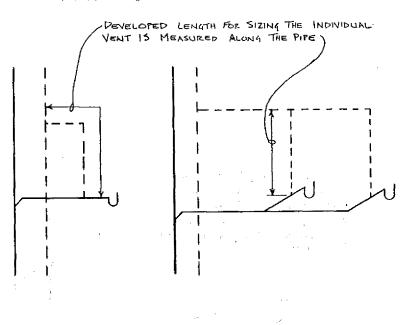
A-82.31 (14) (a) and (b) Sizing vent stacks and stack vents.



A-82.31 (14) (c) Sizing branch vents.

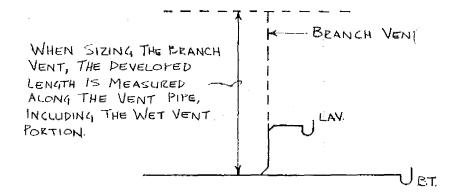


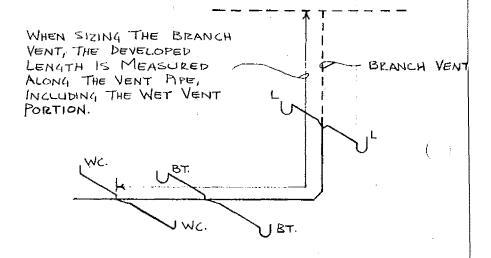
A-82.31 (14) (d) Sizing individual vents.



### 212 WISCONSIN ADMINISTRATIVE CODE

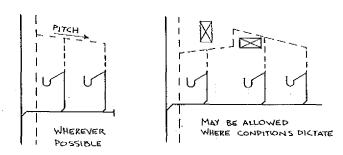
A-82.31 (14) (c) Sizing branch vents serving a wet vent.



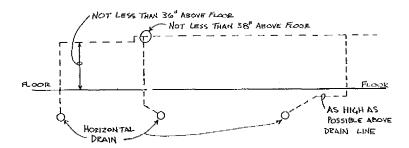


Register, February, 1985, No. 350

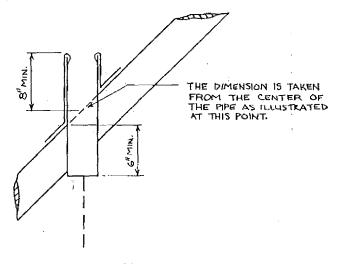
A-82.31 (I5) (a) Vent grades and connections.,

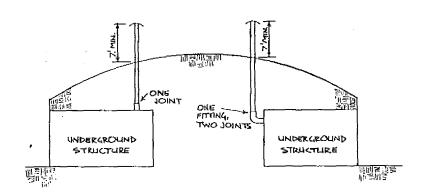


A-82.31 (15) (b) Vent grades and connections,



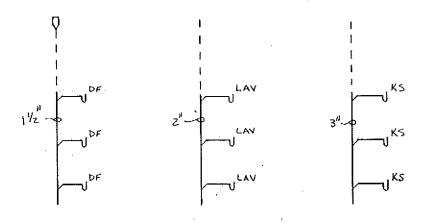
A-82.3) (16) Vent terminals,





VENT TERMINALS FOR UNDERGROUND STRUCTURES

A-82.31 (17) (a) Combination drain and vent stacks.



SIZE AS BRANCH

VENT SERVING

KS AND LT

JKS

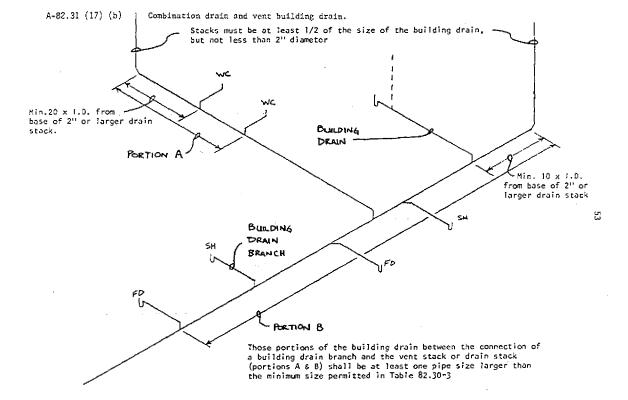
2"

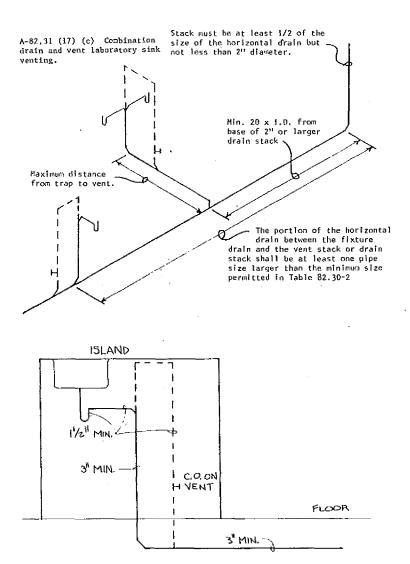
JLT

4"

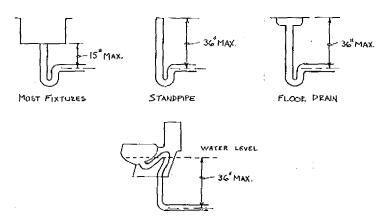
4"

JLT

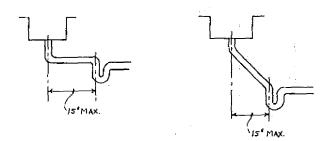




A-82.32 (4) (b) Installation of traps.

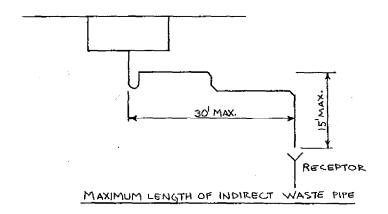


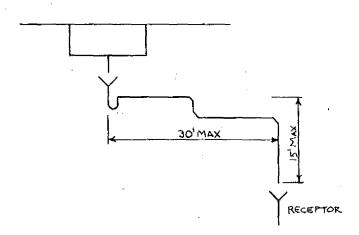
VERTICAL DISTANCE BETWEEN FIXTURE DRAIN OUTLET AND TRAP



HORIZONTAL DISTANCE BETWEEN FIXTURE DRAIN OUTLET AND TRAP

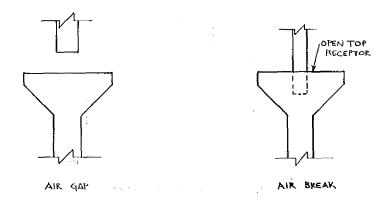
A-82,33 (6) Indirect and local waste piping.

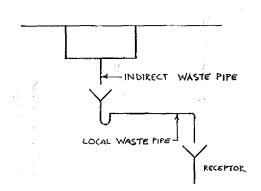


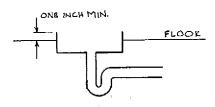


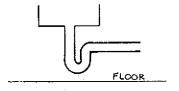
MAXIMUM LENGTH OF LOCAL WASTE PIPE

A-82.33 (7) Air-gaps and air-breaks.



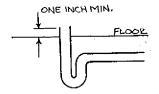


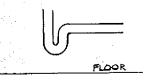




WASTE SINK IN FLOOR

WASTE SINK ABOVE FLOOR

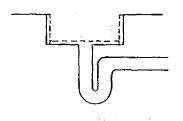


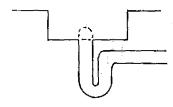


STANDPIPE IN FLOOR

STANDPIPE ABOVE FLOOR

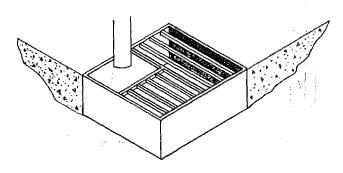
A-82.33 (8) (b) Floor sinks.





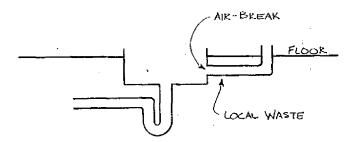
FLOOR SINK WITH BASKET

FLOOR SINK WITH DOME STRAINER

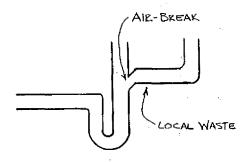


FLOOR SINK WITH GRATE OPENING FOR AIR GAP

A-82.33 (8) (c) Local waste piping.



LOCAL WASTE LEADING TO A WASTE SINK, FLOOR SINK OR FLOOR DRAIN



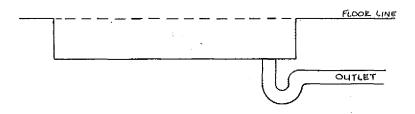
LOCAL WASTE LEADING TO A STANDPIPE

A-82.33 (8) (c) Local waste piping serving water heater relief valves.

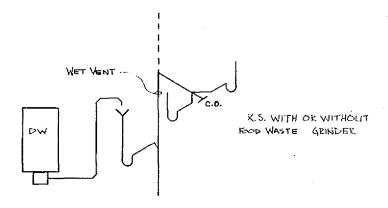
LOCAL WASTE PIPES SERVING WATER HEATER RELIEF VALVES.

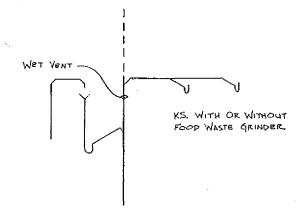
A-82.33 (9) (c) Commercial gravity discharge-type clothes washers.

### TRENCH TYPE LAUNDRY RECEPTOR

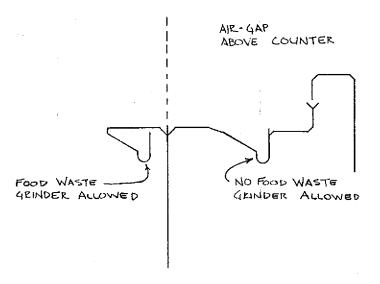


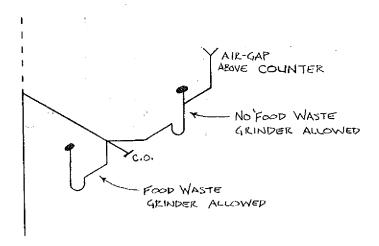
A-82,33 (9) (d) Residential-type dishwashers.





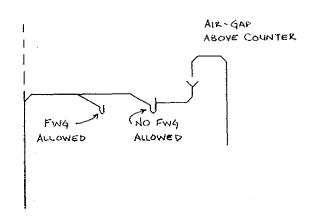
DICTOVASHER DISCHARGING TO A STANDPIPE BELOW THE COUNTER TOP

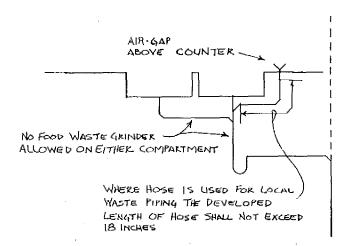




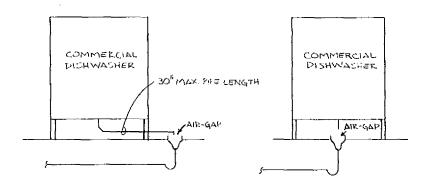
Register, February, 1985, No. 350

A-82.33 (9) (d) Residential-type dishwashers.

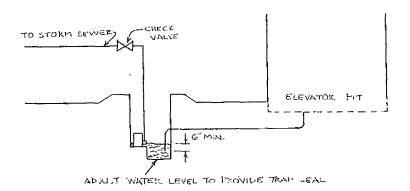




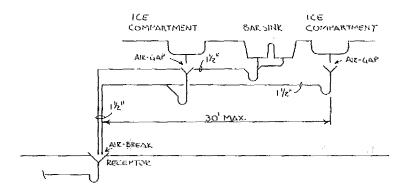
A-82,33 (9) (d) Commercial dishwashers.



A-82.33 (9) (f) Elevator pit subsoil and floor drains.

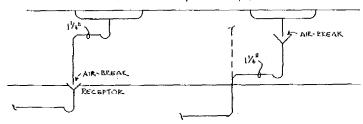


A-82,33 (9) (g) 1. Bar and soda fountal a sinks.

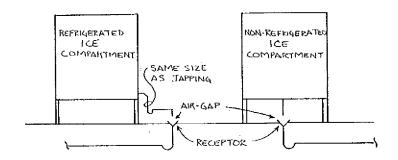


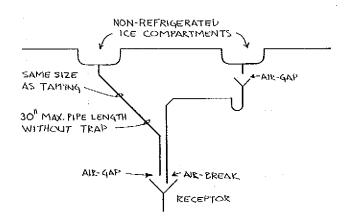
A-82.33 (9) (g) 2.

SODA DISPENSER , BEER TAP, GLASS FILLER, ETC.



A-82.33 (9) (g) 3. Novelty boxes, ice compartments and ice cream dipper wells.

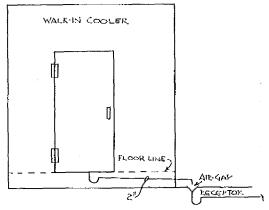


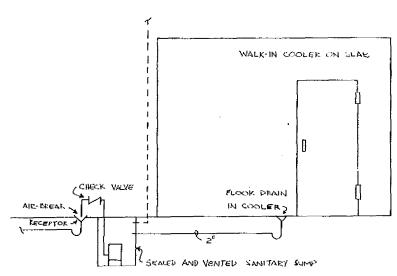


### 232

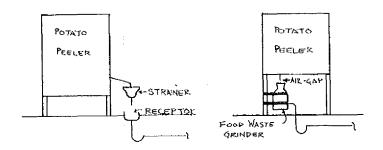
ILHR 82

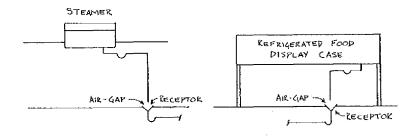
A-S2.33 (9) (g) 4. Refrigerated food storage rooms, compartments, and display





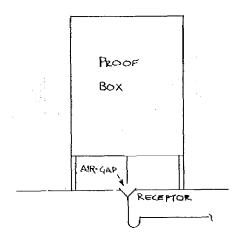
A-82,33 (9) (g) 5. Miscellaneous food handling equipment.



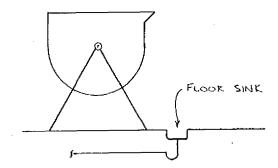


**1LHR 82** 

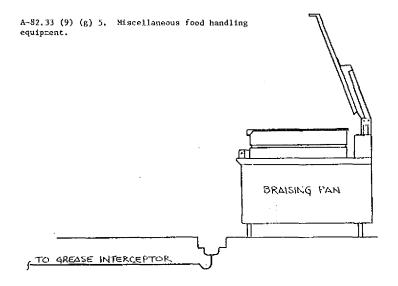
A-82.33 (9) (g) 5. Miscellaneous food handling equipment.

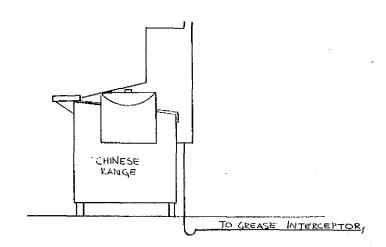


TILTING MIXER

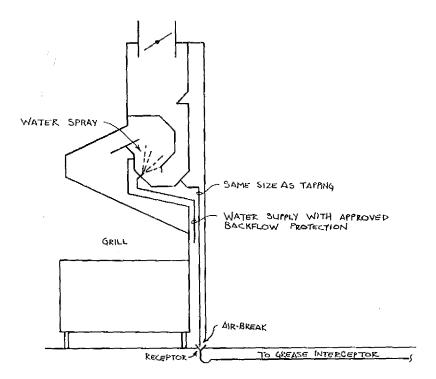








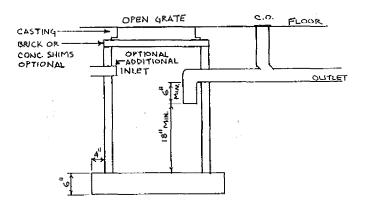
A-82.33 (9) (g) 5. Miscellaneous food handling equipment.

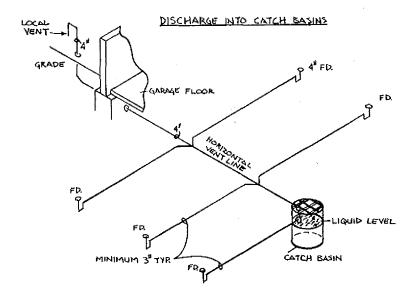


EXHAUST HOOD WASHER

A-82.34 (4) (a)

# GARAGE CATCH BASIN





# WISCONSIN ADMINISTRATIVE CODE

II.HR 82

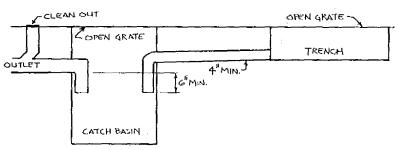
A-82.34 (4) (a)

Capacity of Catch Basins (in cubic feet)

Diameter of Catch Basin	Volume in cubic feet per foot of depth	Diameter of Catch Basin	Volume in cubic feet per foot of depth
36	7.1	45	11.1
37	7.5	46	11.6
38	7.9	47	12.1
39	8.3	48	12.6
40	8.7	54	15.9
41	9.2	60	19.7
42	9.7	66	23.8
43	10.1	72	28.3
44	10.6	- 84	38.6

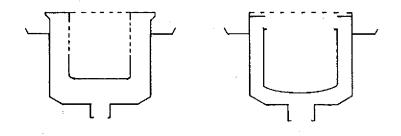
A-82.34 (4) (a)

# TRENCH DRAINS



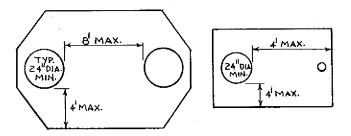
A-82,34 (4) (b)

### TYPICAL FLOOR DRAIN WITH SOLID BOTTOM SEDIMENT BASKET



A-82.34 (5) (b)

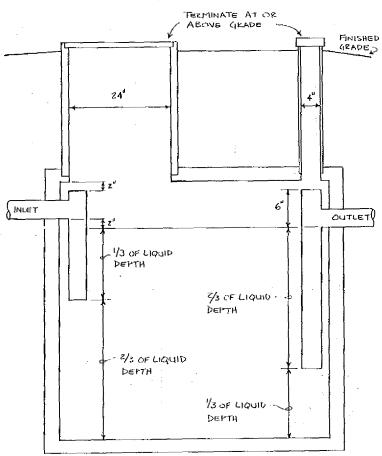
### GREASE INTERCEPTOR MANHOLE LOCATION



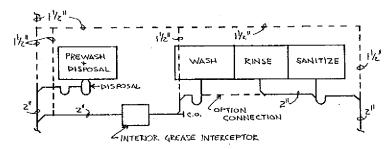
ILHR 82

A-82.34 (5) (b)

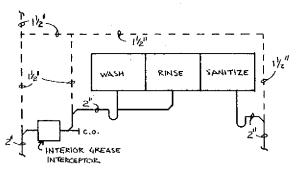
GREASE INTERCEPTOR EXTERIOR



PREWASH AND 3 COMPARTMENT SCHUERY SINK



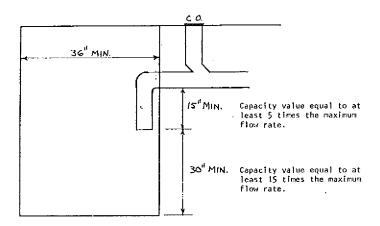
PREWASH + DISPOSAL + 3 COMPARTMENT SCULLERY SINK



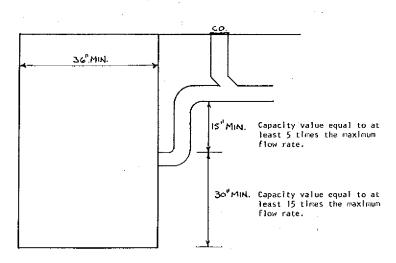
3 COMPARTMENT SCULLERY SINK

# 242 WISCONSIN ADMINISTRATIVE CODE $_{\text{ILHR } 82}$

A-82.34 (6) Automatic car washes.



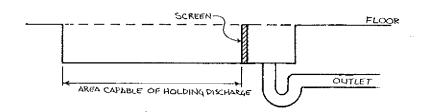
CAL WASH INTERCEPTOR WITH CAST IRON INVERT INSIDE OF BASIN



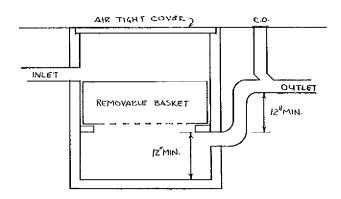
CAR WASH INTERCEPTOR WITH INVERT OUTSIDE OF BASIN

A-82.34 (7) Commercial laundries.

#### TRENCH TYPE LAUNDRY INTERCEPTOR

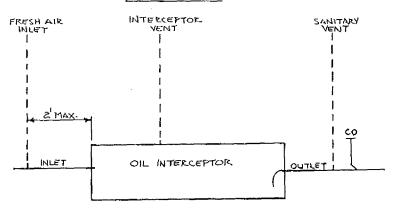


#### N-LINE LAUNDRY INTERCEPTOR



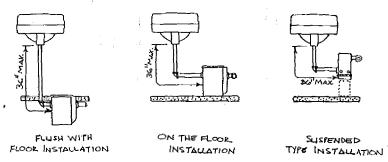
A-82.34 (8)

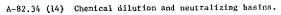
# OIL INTERCEPTOR

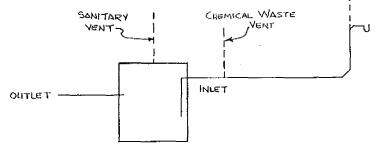


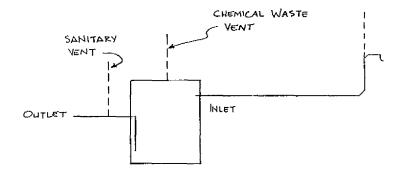
A-82.34 (13)

## PLASTER AND HEAVY SOLIDS TRAP









A-82,35 (3)

CLEANDUTS SERVING HORIZONTAL

DRAINS WITHIN OR UNDER A BUILDING

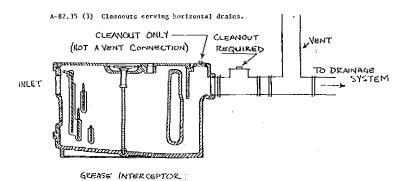
CLEANOUT NOT REQUIRED
IN THIS STACK

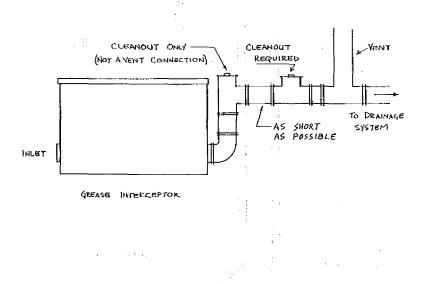
CO

FLOOR

DEVELOPED LENGTH OF HORIZONTAL DRAIN
PIPING BETWEEN CLEANOUTS SHALL NOT

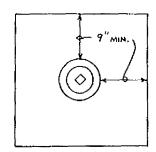
EXCEED 75 FEET

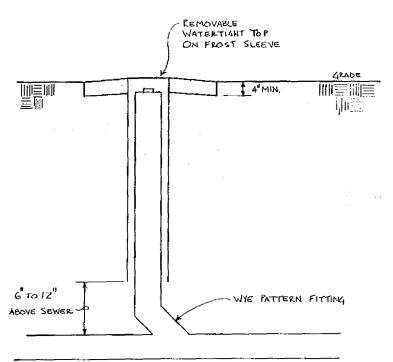


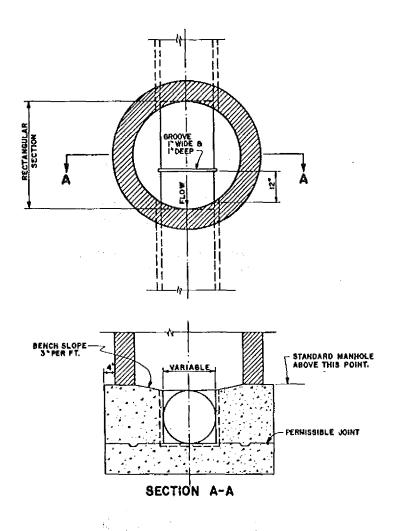


# 248 $^{+}$ WISCONSIN ADMINISTRATIVE CODE $^{-}$ ILHR 82

A-82.34 (5) (a) Cleanout extension to grade.

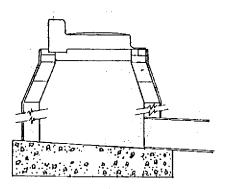




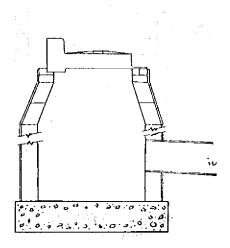


DETAIL OF SAMPLING MANHOLE

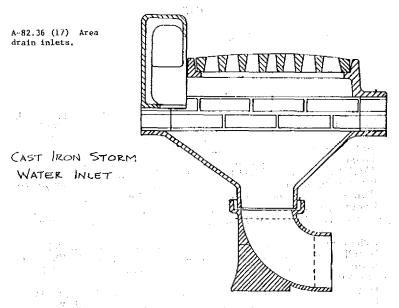
A-82.36 (17) Area drain inlets.



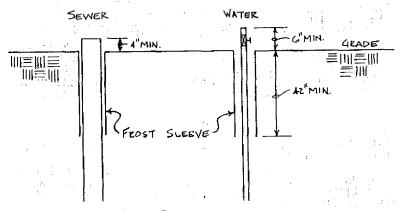
STANDARD STORM WATER INLET (MASONRY)



STANDARD STORM WATER
CATCH BASIN (MASONRY)



A-82,51 (3) Mobile home sites and parks.



MOBILE HOME BUILDING SEWER AND WATER SERVICE TERMINATIONS