

Flood Design Frequency Selection Chart

Design Frequency - Years					Drainage Structures
Rural Class			Urban Class		
STH/CTH (1) T1,T2,T3,T4,T5,T6	STH/CTH (2) T7	STH (3)	Urban Streets 1, 2, 3, 4, 5,	Urban Expressways & Freeways 1, 2, 3	
See FDM 13-10-1 , discussion of Major Drainage Structures					Bridges & Box Culverts
50	50	50	50	50	Underpass Storm Sewers
25	50	50	50	50	Main or Primary Channels
25	25	50	50	50	Cross Drain Pipe Culverts
25	25	25	25	25	Side Drain Pipe Culverts
25	25	25	25	25	Side Ditches and Channels
X	X	25	X	25	Median Ditches and Channels
X	X	X	10 (4) Check 25 Yr.	25	Urban Gutters, Inlets and Storm Sewers

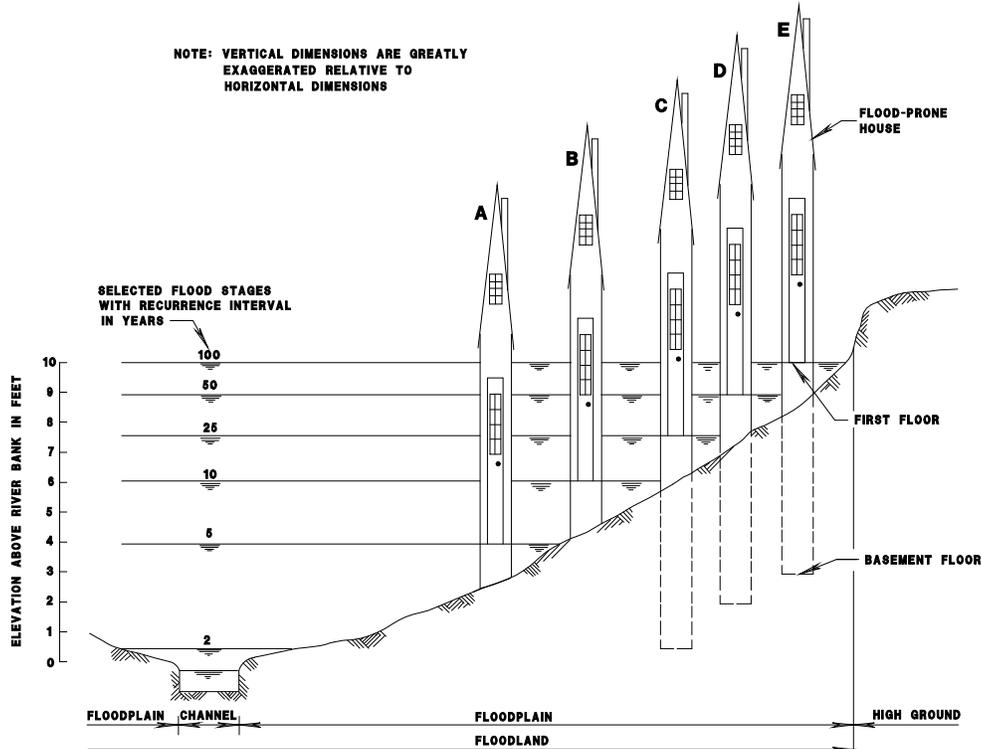
- (1) All state trunk highways with design ADT under 1500 and all county trunk highways with design ADT under 4000.
- (2) All state trunk highways with design ADT of 1500-7000 and all county trunk highways with design ADT over 4000.
- (3) All state trunk highways with design ADT of over 7000.
- (4) See [FDM 13-25-20](#)

PROBABILITY OF FLOOD OCCURRENCE

Percent Chance of Equaling or Exceeding such a Flood at Least Once in This Many Years					Recurrence Interval (Years)
100 Years	50 Years	25 Years	10 Years	Any 1 Year	
--	99	93	65	10	10
98	87	64	34	4	25
87	64	40	18	2	50
64	40	22	10	1	100

PROBABILITY OF FLOOD DAMAGE BEFORE PAYMENT OF 25 YEAR MORTGAGE

CHANNEL, FLOODPLAIN, AND FLOOD-PRONE HOUSES



RISK OF FLOODLAND OCCUPANCY

Identification	House	Percent Probability of First Floor or More Damage in Any Year	Percent Probability of First Floor or More Damage Before 25-Year Mortgage is Paid
	Position in Floodplain—First Floor Coincident With:		
A	5-Year Recurrence Interval Flood Stage	20.0	99.6
B	10-Year Recurrence Interval Flood Stage	10.0	92.8
C	25-Year Recurrence Interval Flood Stage	4.0	64.0
D	50-Year Recurrence Interval Flood Stage	2.0	40.0
E	100-Year Recurrence Interval Flood Stage	1.0	22.2

Source: SEWRPC.