tread layout with bricks laid on edge

straight corner

mitered corner

laid on edge

laid flat

3-5/8" brick

1-1/2" thick paver

5-7/8" riser with 3/8" mortar joints
6-1/8" riser with 1/2" mortar joints

laid on edge

laid flat

3-5/8" brick

2-1/4" thick paver

6-5/8" riser with 3/8" mortar joints
6-7/8" riser with 1/2" mortar joints

Figure 14-10 Brick steps using flat pavers and bricks on edge. (*From Beall,* Masonry and Concrete for Residential Construction, *McGraw-Hill Complete Construction Series, 2001.*)
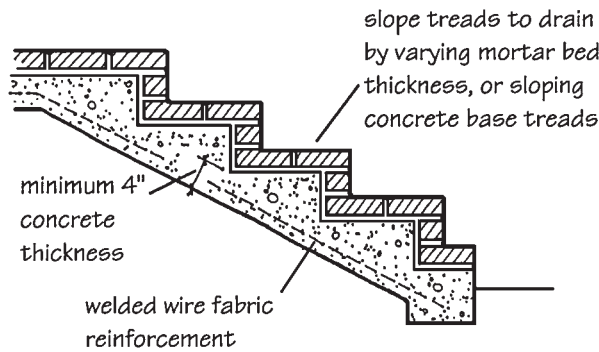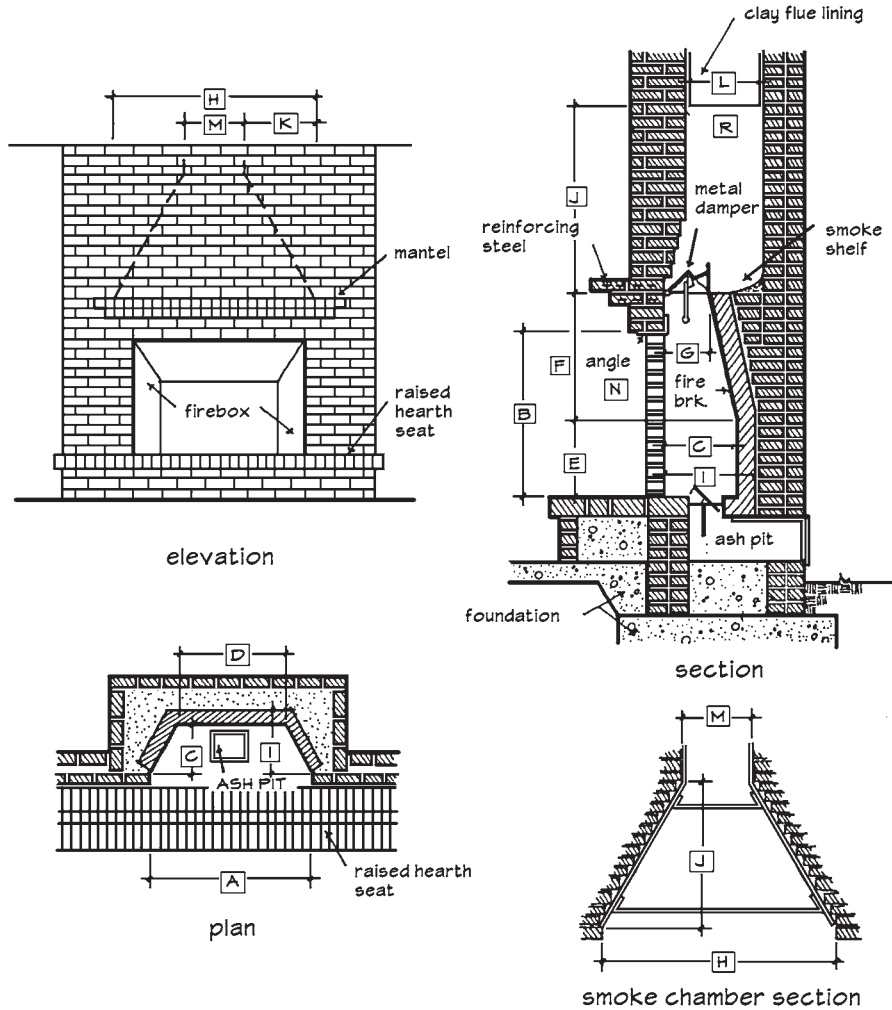

slope treads to drain by varying mortar bed thickness, or sloping concrete base treads

minimum 4" concrete thickness

welded wire fabric reinforcement

Figure 14-11 Brick steps laid on concrete base. (*From Beall,* Masonry and Concrete for Residential Construction, *McGraw-Hill Complete Construction Series, 2001.*)

Finished Fireplace Opening (in.)							Rough Brick Work and Flue Sizes (in.)							Steel Angle§
A	B	C	D	E	F	G	H	I	J	K	L	M	R†	N
24	24	16	11	14	18	8-3/4	32	20	19	10	8	12	8	A-36
26	24	16	13	14	18	8-3/4	34	20	21	11	8	12	8	A-36
28	24	16	15	14	18	8-3/4	36	20	21	12	8	12	10	A-36
30	29	16	17	14	23	8-3/4	38	20	24	13	12	12	10	A-36
32	29	16	19	14	23	8-3/4	40	20	24	14	12	12	10	A-42
36	29	16	23	14	23	8-3/4	44	20	27	16	12	12	12	A-42
40	29	16	27	14	23	8-3/4	48	20	29	16	12	16	12	A-48
42	32	16	29	14	26	8-3/4	50	20	32	17	16	16	12	A-48
48	32	18	33	14	26	8-3/4	56	20	37	20	16	16	15	B-54
54	37	20	37	16	29	13	68	24	45	26	16	16	15	B-60
60	37	22	42	16	29	13	72	27	45	26	16	20	15	B-66
60	40	22	42	16	31	13	72	27	45	26	16	20	18	B-66
72	40	22	54	16	31	13	84	27	56	32	20	20	18	C-84
84	40	24	64	20	28	13	96	29	61	36	20	24	20	C-96
96	40	24	76	20	28	13	108	29	75	42	20	24	22	C-108

§   Angle Sizes: A = 3 x 3 x 3/16, B = 3-1/2 x 3 x 1/4, C = 5 x 3-1/2 x 5/16.
†   Round flues.

Figure 14-12   BIA fireplace details and dimensions. (*From Harry C. Plummer,* Brick and Tile Engineering.)