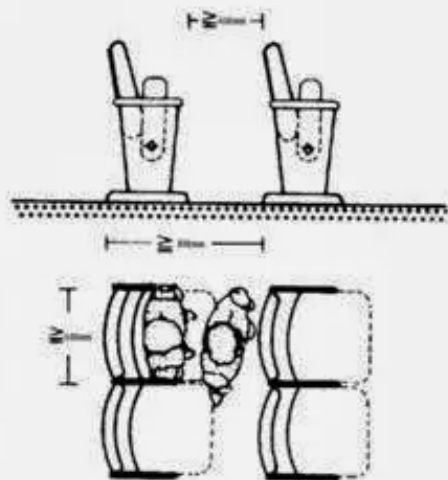
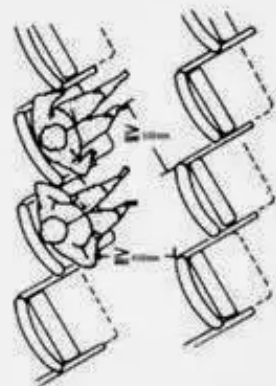


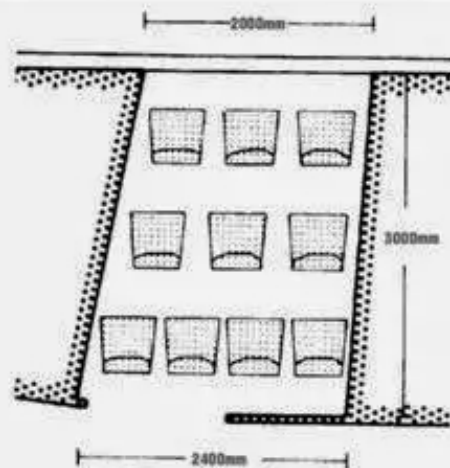
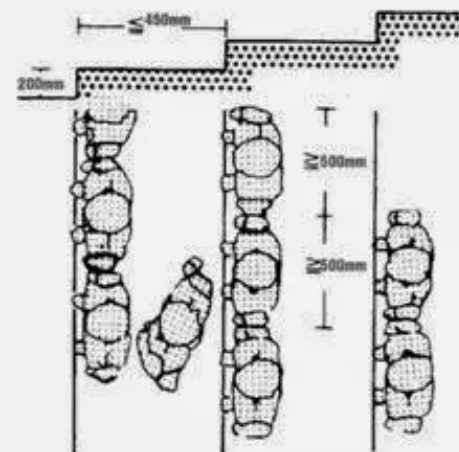
BASIC CRITERIA OF AUDITORIUM

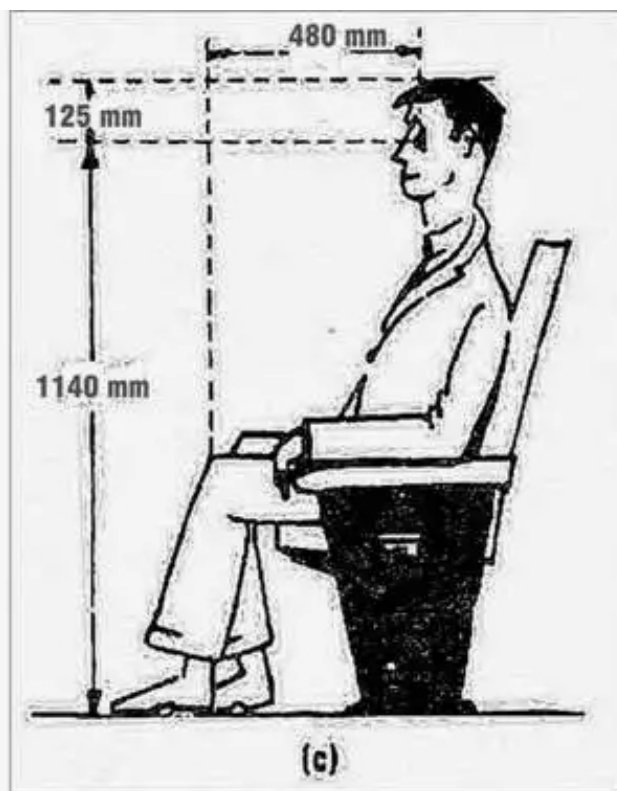
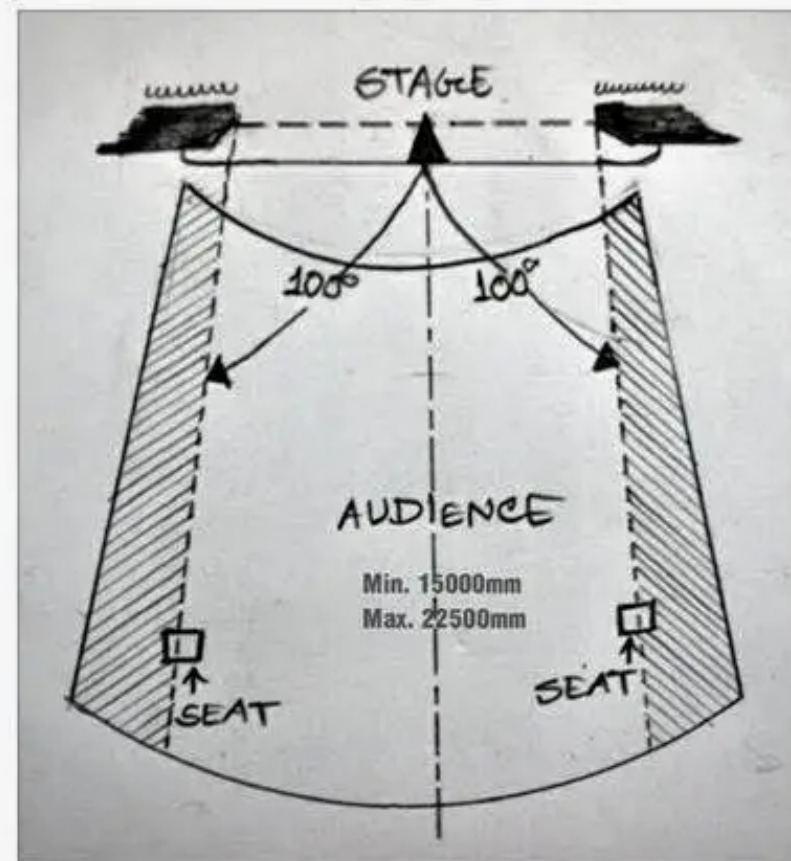


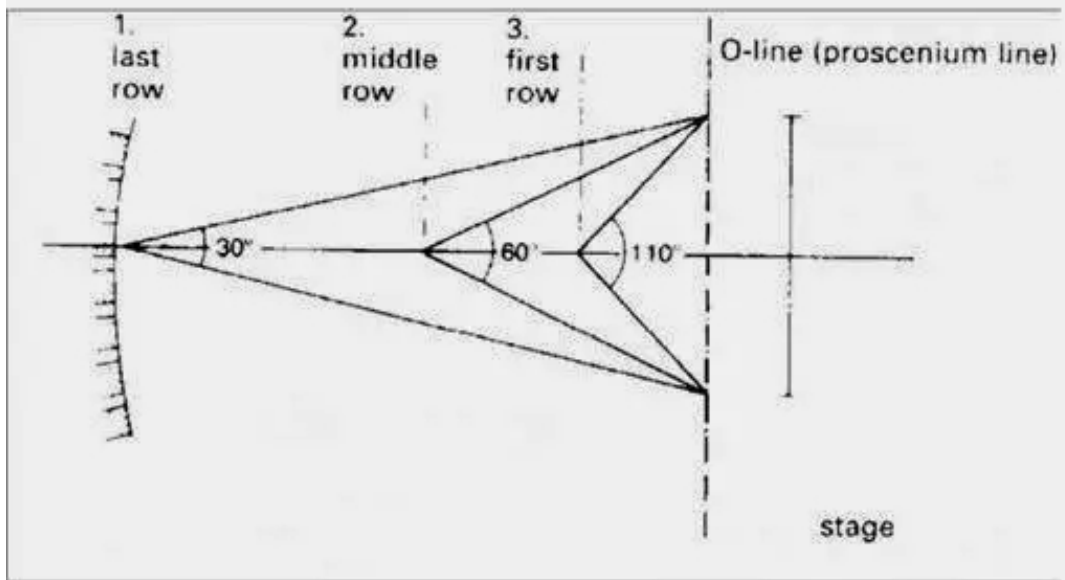
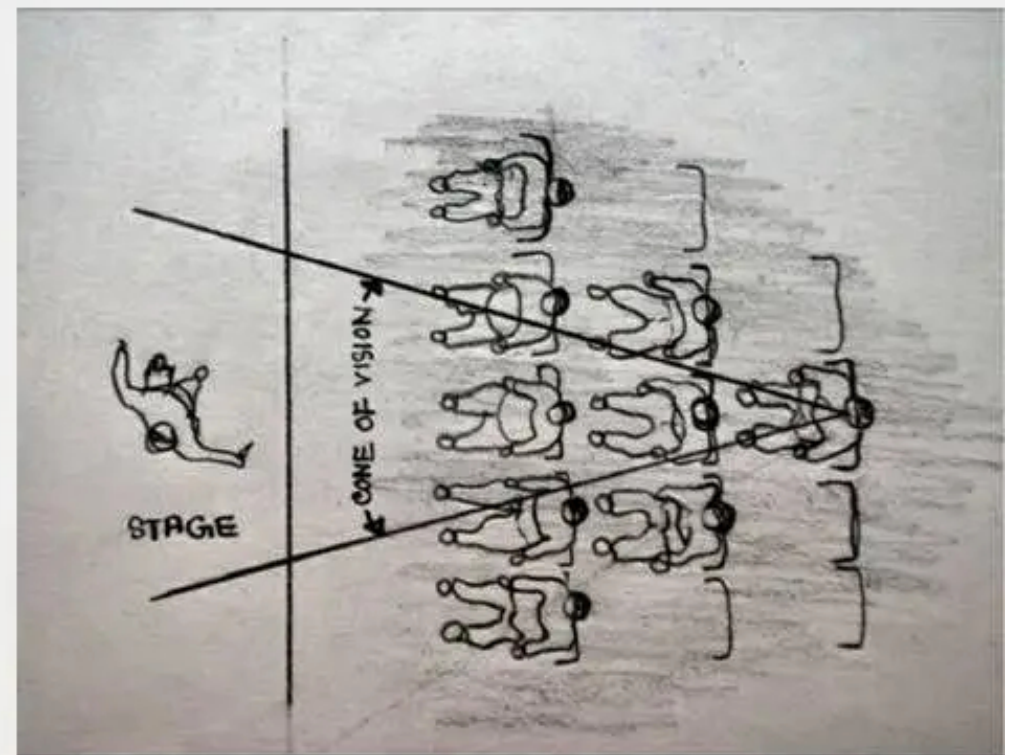
- ① All seats apart from boxes must have fixed, self-operating folding seats with the above minimum dimensions

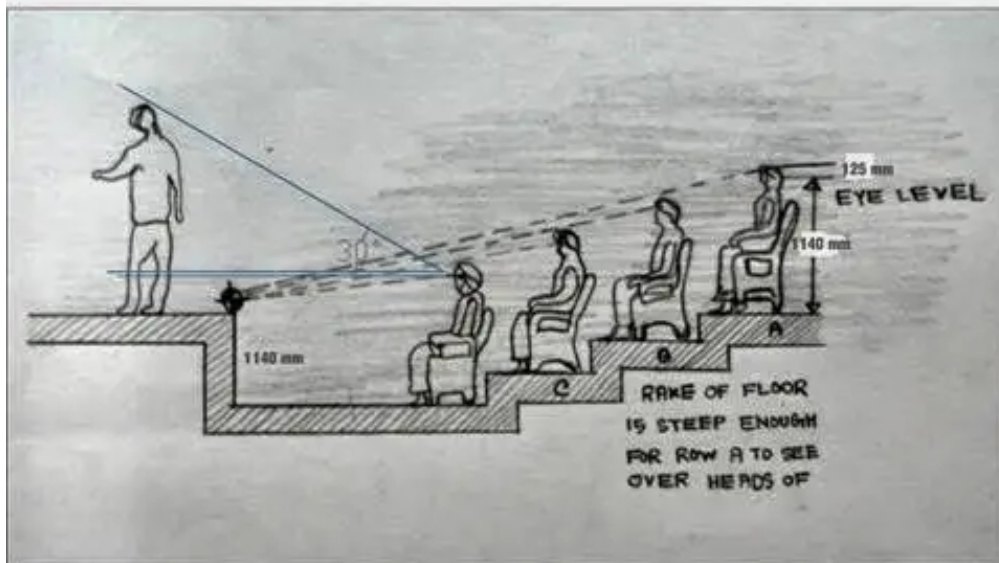
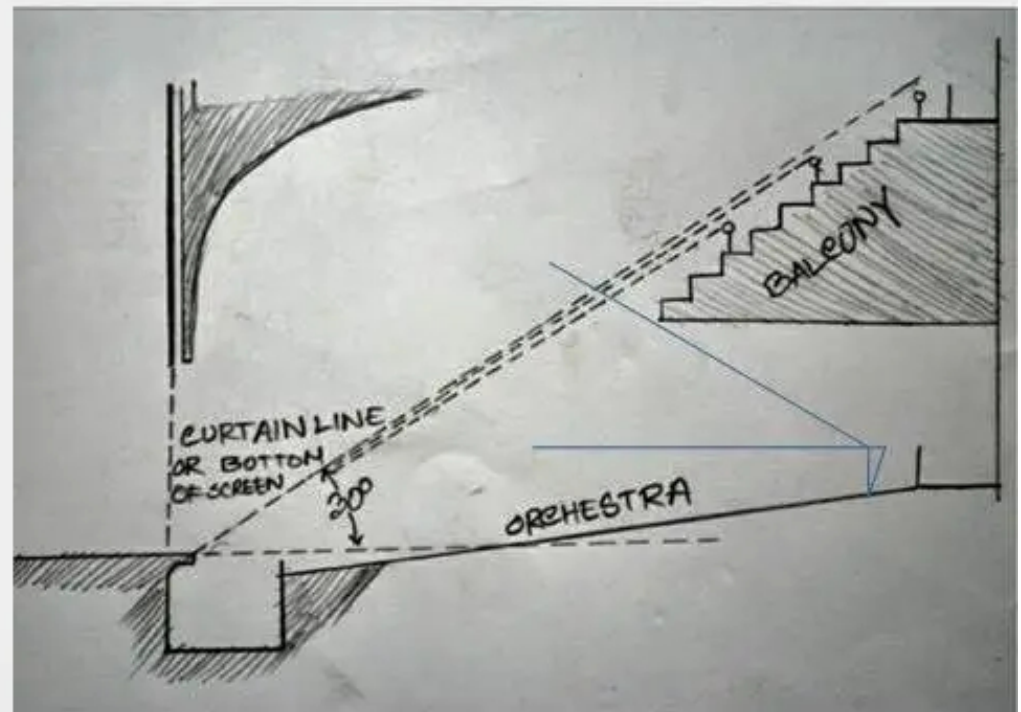


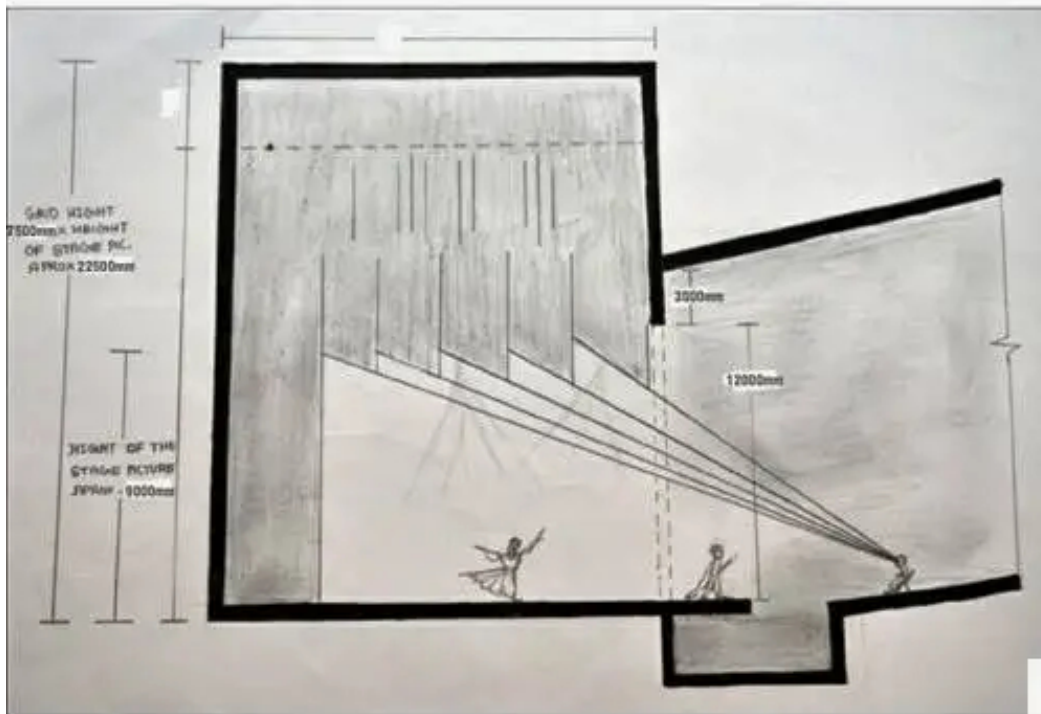
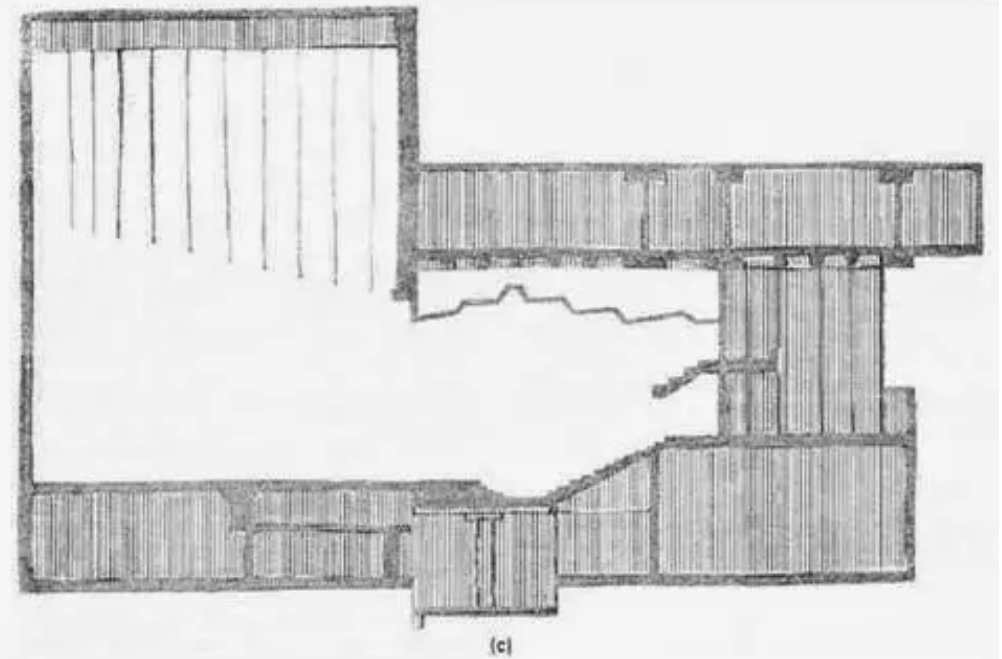
- ② Offset folding seats provide elbow space











EXAMPLE A: Given auditorium area = 87'-0" x 56'-5" or 4900 + sq. ft., how many 20" seats, 36" back-to-back?

$$\begin{array}{rcl}
 1. \text{ Rows: In Table I, 36" col., at } & & \\
 87'-0" \text{ depth, No. rows} & = & 29 \\
 \text{less cross-overs (1 row at front,} & & \\
 \text{4 at rear)} & = & \underline{-5}
 \end{array}$$

$$\text{Rows available for seats} = \underline{24}$$

$$\begin{array}{rcl}
 2. \text{ Aisles: Table II, increase in aisle} & & \\
 \text{width per row} = 0.75"; 0.75 \times 24 = & & \\
 \text{Total increase} & = & 1'-6" \\
 \text{Min. aisle} & = & 3'-0" \\
 \text{Max. aisle} & = & \underline{4'-6"}
 \end{array}$$

$$\begin{array}{rcl}
 3. \text{ Seating Scheme: Select tentative} & & \\
 \text{scheme; 2 aisles, 2 dead-end} & & \\
 \text{seat banks, 1 center bank. From} & & \\
 \text{typical code, dead-end rows may} & & \\
 \text{be 7 seats long, center rows 14} & & \\
 \text{seats. In Table IV 14—20" seats} & = & 23'-7" \\
 \text{7—20" seats} & = & 11'-11" \\
 \text{7—20" seats} & = & 11'-11"
 \end{array}$$

$$\begin{array}{rcl}
 \text{From (2) above, 2 aisles} & = & \underline{9'-0"} \\
 \text{Total width} & = & 56'-5" \\
 \text{Seats per row} & = & 28
 \end{array}$$

$$\begin{array}{rcl}
 4. \text{ Total No. of Seats: (Table III)} & & \\
 \text{or } 28 \times 24 = & \{ & 672 \\
 & \} & \text{seats}
 \end{array}$$

RULE of THUMB for SEATING AREA:

Allow 7½ sq. ft per Seat, including Aisles and Cross-overs.

This is sufficiently accurate for preliminary planning.

Table I - Depth Dimensions (Ft.-In.) for Various Spacings

No. Rows	Overall Depth for Seat Spacing (Back-to-back) of:										
	32"	33"	34"	35"	36"	37"	38"	39"	40"	41"	42"
1	2-8	2-9	2-10	2-11	3-0	3- 1	3- 2	3-3	3-4	3- 5	3-6
2	5-4	5-6	5- 8	5-10	6-0	6- 2	6- 4	6-6	6-8	6-10	7-0
3	8-0	8-3	8- 6	8- 9	9-0	9- 3	9- 6	9-9	10-0	10- 3	10-6
4	10-8	11-0	11- 4	11- 8	12-0	12- 4	12- 8	13-0	13-4	13- 8	14-0
5	13-4	13-9	14- 2	14- 7	15-0	15- 5	15-10	16-3	16-8	17- 1	17-6
6	16-0	16-6	17- 0	17- 6	18-0	18- 6	19- 0	19-6	20-0	20- 6	21-0
7	18-8	19-3	19-10	20- 5	21-0	21- 7	22- 2	22-9	23-4	23-11	24-6
8	21-4	22-0	22- 8	23- 4	24-0	24- 8	25- 4	26-0	26-8	27- 4	28-0
9	24-0	24-9	25- 6	26- 3	27-0	27- 9	28- 6	29-3	30-0	30- 9	31-6
10	26-8	27-6	28- 4	29- 2	30-0	30-10	31- 8	32-6	33-4	34- 2	35-0
11	29-4	30-3	31- 2	32- 1	33-0	33-11	34-10	35-9	36-8	37- 7	38-6
12	32-0	33-0	34- 0	35- 0	36-0	37- 0	38- 0	39-0	40-0	41- 0	42-0
13	34-8	35-9	36-10	37-11	39-0	40- 1	41- 2	42-3	43-4	44- 5	45-6

Table II - Aisle Width Increase (in inches) Per Row of Length

Table III - Seating Capacities, 1-32 Rows

Seat Spacing Back-to-Back	Fire Underwriters Code: 3'-0" plus 1/4" per 1'-0"	N.Y. City Code: 3'-0" plus 1 1/2" per 5'-0"	No. of Rows	7 Seats	14 Seats	28 Seats	No. of Rows	7 Seats	14 Seats	28 Seats
32"	0.67	0.80	1	7	14	28	17	119	238	476
33"	0.69	0.83	2	14	28	56	18	126	252	504
34"	0.71	0.86	3	21	42	84	19	133	266	532
35"	0.73	0.88	4	28	56	112	20	140	280	560
36"	0.75	0.90	5	35	70	140	21	147	294	588
37"	0.77	0.93	6	42	84	168	22	154	308	616
38"	0.79	0.95	7	49	98	196	23	161	322	644
39"	0.81	0.98	8	56	112	224	24	168	336	672
40"	0.83	1.00	9	63	126	252	25	175	350	700
41"	0.85	1.03	10	70	140	280	26	182	364	728
42"	0.88	1.05	11	77	154	308	27	189	378	756
			12	84	168	336	28	196	392	784
			13	91	182	364	29	203	406	812
Proper factor x no. of rows = total increase in inches, Add to 3'-0" minimum aisle width			14	98	196	392	30	210	420	840
			15	105	210	420	31	217	434	868
			16	112	224	448	32	224	448	896

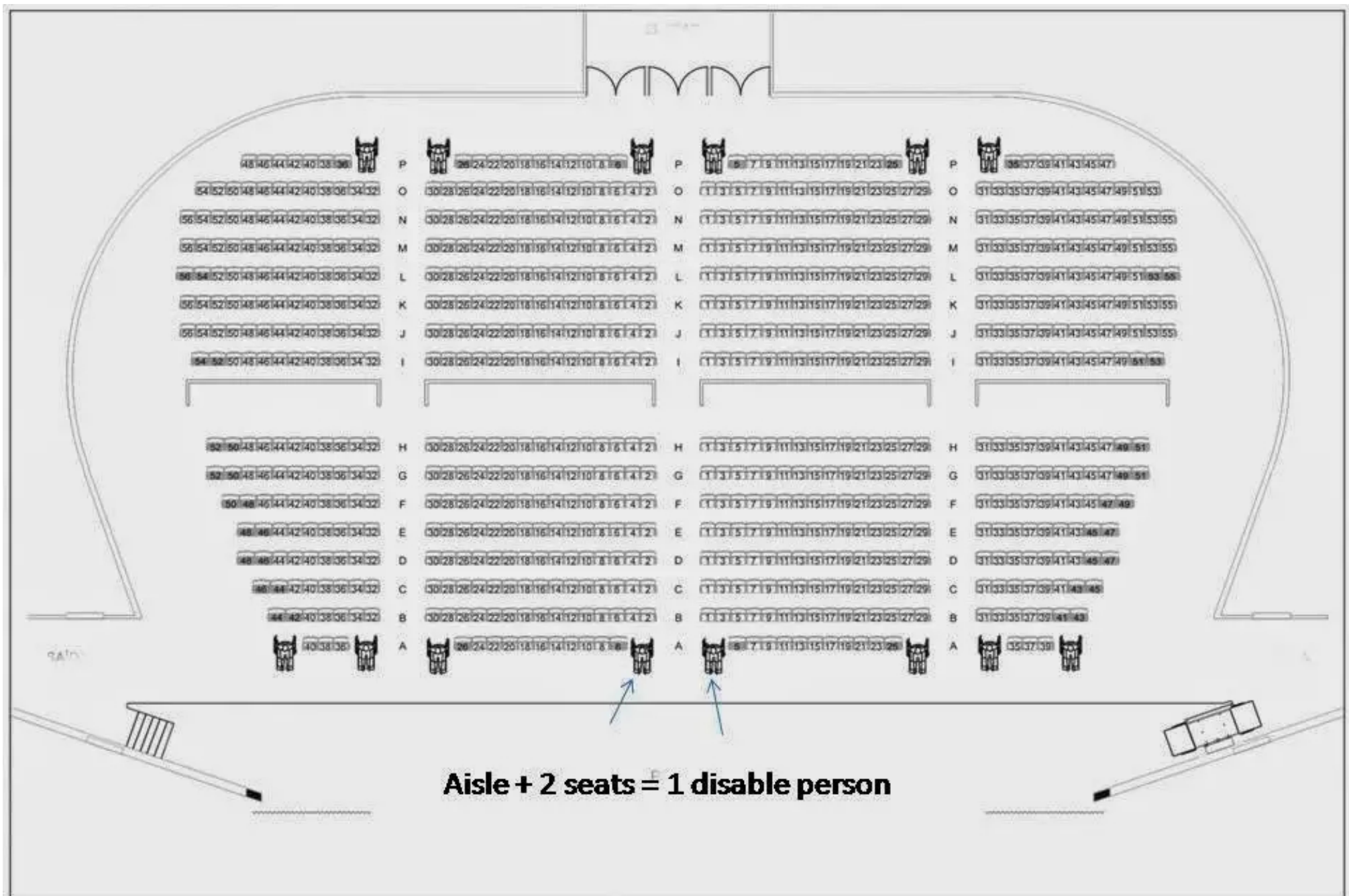
Table IV - Numbers of Seats (Stock Sizes) for Any Row Length

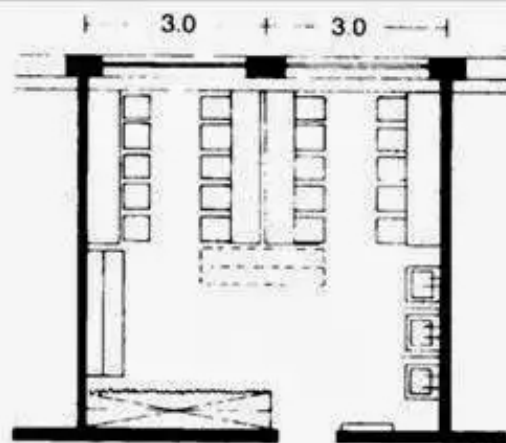
Row Length Ft.-In.	19"	20"	21"	22"	Row Length Ft.-In.	19"	20"	21"	22"	Row Length Ft.-In.	19"	20"	21"	22"	Row Length Ft.-In.	19"	20"	21"	22"	
5-0	60	3			11-5	137	6	1		16-4	195	7	3	5	4	21-3	255	8	5	12
5-1	61	2	1		11-6	138	5	2		16-5	197	6	4	4	5	21-4	256	7	6	11
5-2	62	1	2		11-7	139	4	3		16-6	198	5	5	3	6	21-5	257	6	7	10
5-3	63		3		11-8	140	3	4		16-7	199	4	6	2	7	21-6	258	5	8	9
5-4	64		2	1	11-9	141	2	5		16-8	200	3	7	1	8	21-7	259	4	9	8
5-5	65		1	2	11-10	142	1	6		16-9	201	2	8		9	21-8	260	3	10	7
5-6	66			3	11-11	143		7		16-10	202	1	9			21-9	261	2	11	6
5-7	67			2	12-0	144		6	1	16-11	203		10			21-10	262	1	12	5
5-8	68			1	12-1	145		5	2	17-0	204		9	1		21-11	263		13	4
5-9	69				12-2	146		4	3	17-1	205		8	2		22-0	264		12	3
6-0	70	4			12-3	147		3	4	17-2	206		7	3		22-1	265		11	2
6-1	71	3	1		12-4	148		2	5	17-3	207		6	4		22-2	266		10	1
6-2	72	2	2		12-5	149		1	6	17-4	208		5	5		22-3	267		9	0
6-3	73	1	3		12-6	150			7	17-5	209		4	6		22-4	268		8	0
6-4	74		4		12-7	151			6	17-6	210		3	7		22-5	269	14	7	0
6-5	75		3	1	12-8	152			5	17-7	211		2	8		22-6	270	13	6	0
6-6	76		2	2	12-9	153			4	17-8	212	11	1	9		22-7	271	12	5	0
6-7	77		1	3	12-10	154			3	17-9	213	10	1	10		22-8	272	11	4	0
6-8	78			4	12-11	155	8		2	17-10	214	9	2	9	1	22-9	273	10	3	0
6-9	79			3	13-0	156	7	1	1	17-11	215	8	3	8	2	22-10	274	9	2	0
6-10	80			2	13-1	157	6	2		18-0	216	7	4	7	3	22-11	275	8	1	0
6-11	81			1	13-2	158	5	3		18-1	217	6	5	6	4	23-0	276	7	0	0
7-0	82				13-3	159	4	4		18-2	218	5	6	5	5	23-1	277	6	0	0
7-1	83	5			13-4	160	3	5		18-3	219	4	7	4	6	23-2	278	5	0	0
7-2	84	4	1		13-5	161	2	6		18-4	220	3	8	3	7	23-3	279	4	0	0
7-3	85	3	2		13-6	162	1	7		18-5	221	2	9	2	8	23-4	280	3	0	0
7-4	86	2	3		13-7	163		8		18-6	222	1	10	1	9	23-5	281	2	0	0
7-5	87	1	4		13-8	164		7	1	18-7	223		11		10	23-6	282	1	0	0
7-6	88		5		13-9	165		6	2	18-8	224		10	1		23-7	283		0	0
7-7	89		4	1	13-10	166		5	3	18-9	225		9	2		23-8	284		0	0
7-8	90		3	2	13-11	167		4	4	18-10	226		8	3		23-9	285		0	0
7-9	91		2	3	14-0	168		3	5	18-11	227		7	4		23-10	286		0	0
7-10	92		1	4	14-1	169		2	6	19-0	228		6	5		23-11	287		0	0
7-11	93			5	14-2	170		1	7	19-1	229		5	6		24-0	288		0	0
8-0	94			4	14-3	171			8	19-2	230		4	7		24-1	289		0	0
8-1	95			3	14-4	172			7	19-3	231	12	3	8		24-2	290		0	0
8-2	96			2	14-5	173			6	19-4	232	11	2	9		24-3	291		0	0
8-3	97			1	14-6	174	9		5	19-5	233	10	1	10		24-4	292		0	0
8-4	98				14-7	175	8	1	4	19-6	234	9	3	11		24-5	293		0	0
8-5	99	6			14-8	176	7	2	3	19-7	235	8	4	10	1	24-6	294		0	0
8-6	100	5	1		14-9	177	6	3	2	19-8	236	7	5	9	2	24-7	295		0	0
8-7	101	4	2		14-10	178	5	4	1	19-9	237	6	6	8	3	24-8	296		0	0
8-8	102	3	3		14-11	179	4	5		19-10	238	5	7	7	4	24-9	297		0	0
8-9	103	2	4		15-0	180	3	6		19-11	239	4	8	6	5	24-10	298		0	0
8-10	104	1	5		15-1	181	2	7		20-0	240	3	9	5	6	24-11	299		0	0
8-11	105		6		15-2	182	1	8		20-1	241	2	10	4	7	25-0	300		0	0
9-0	106		5	1	15-3	183		9		20-2	242	1	11	3	8	25-1	301		0	0
9-1	107		4	2	15-4	184		8	1	20-3	243		12	2	9	25-2	302		0	0
9-2	108		3	3	15-5	185		7	2	20-4	244		11	1	10	25-3	303		0	0
9-3	109		2	4	15-6	186		6	3	20-5	245		10	2	11	25-4	304		0	0
9-4	110		1	5	15-7	187		5	4	20-6	246		9	3		25-5	305		0	0
9-5	111			6	15-8	188		4	5	20-7	247		8	4		25-6	306		0	0
9-6	112			5	15-9	189		3	6	20-8	248		7	5		25-7	307		0	0
9-7	113			4	15-10	190		2	7	20-9	249		6	6		25-8	308		0	0
9-8	114			3	15-11	191		1	8	20-10	250	13	5	7		25-9	309		0	0
9-9	115			2	16-0	192			9	20-11	251	12	4	8		25-10	310		0	0
9-10	116			1	16-1	193	10		8	21-0	252	11	3	9		25-11	311		0	0
9-11	117				16-2	194	9	1	7	21-1	253	10	2	10						
10-0	118				16-3	195	8	2	6	21-2	254	9	1	11						

End Allowances: Normal 3" allowance to accommodate 2 end standards per row is included above. For balconies with steps in aisles allow 2" additional.

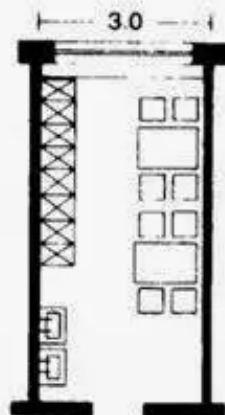
Seat Sizes: Common sizes shown. Seats are also available 18", 23" & 24" wide. 18" size not recommended. Limit use of 19" seats to ends of rows for comfort.

Choice of Seats: Note that for longer rows two choices of seat sizes are available. Example: Row length = 14'-9"; six 19" seats and three 20" may be used; or, two 21" and six 22". Dotted lines separate choices. Dimensions not fitted by stock sizes are omitted.

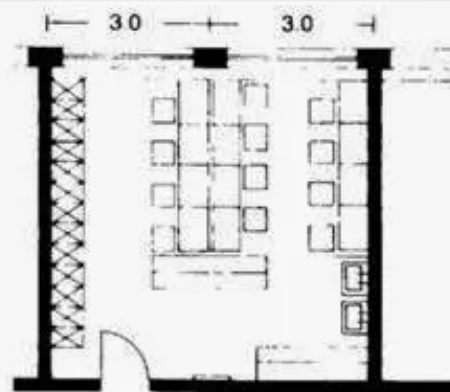




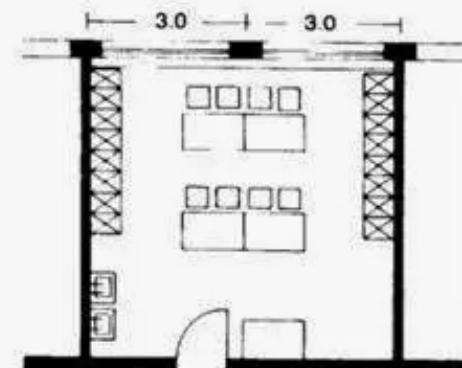
⑥ Changing room for extra choir and/or minor players; min. 1.65 m²/person



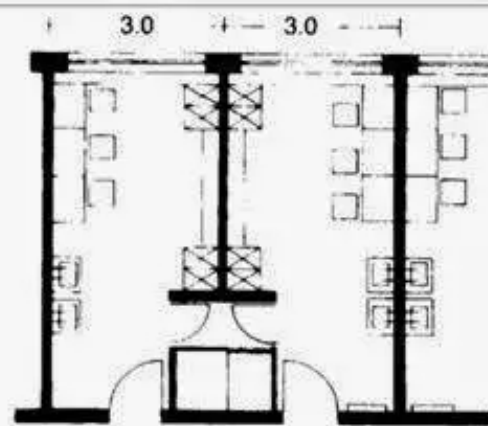
⑦ Changing and rest room for technical personnel



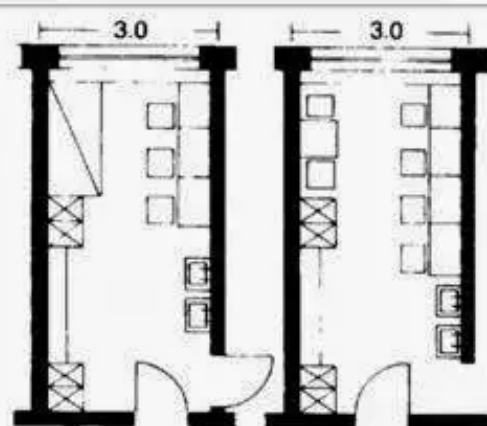
④ Choir changing room; min. 2.75 m²/person



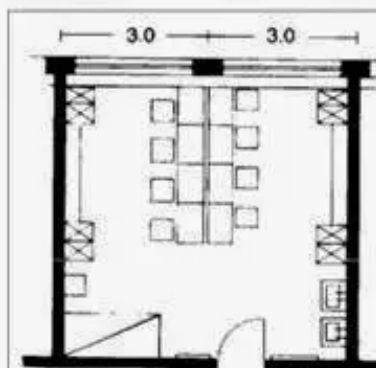
⑤ Changing and tuning room (green room) for members of the orchestra; min. 2 m²/person



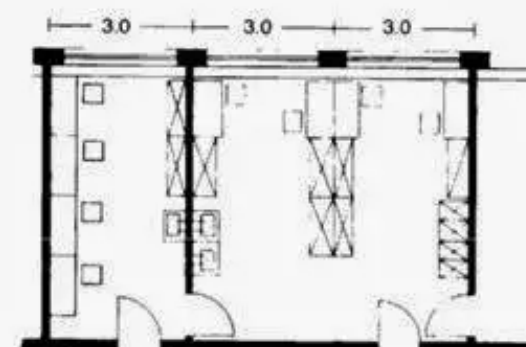
② Soloists' changing rooms;
min. 3.8–5 m²/person



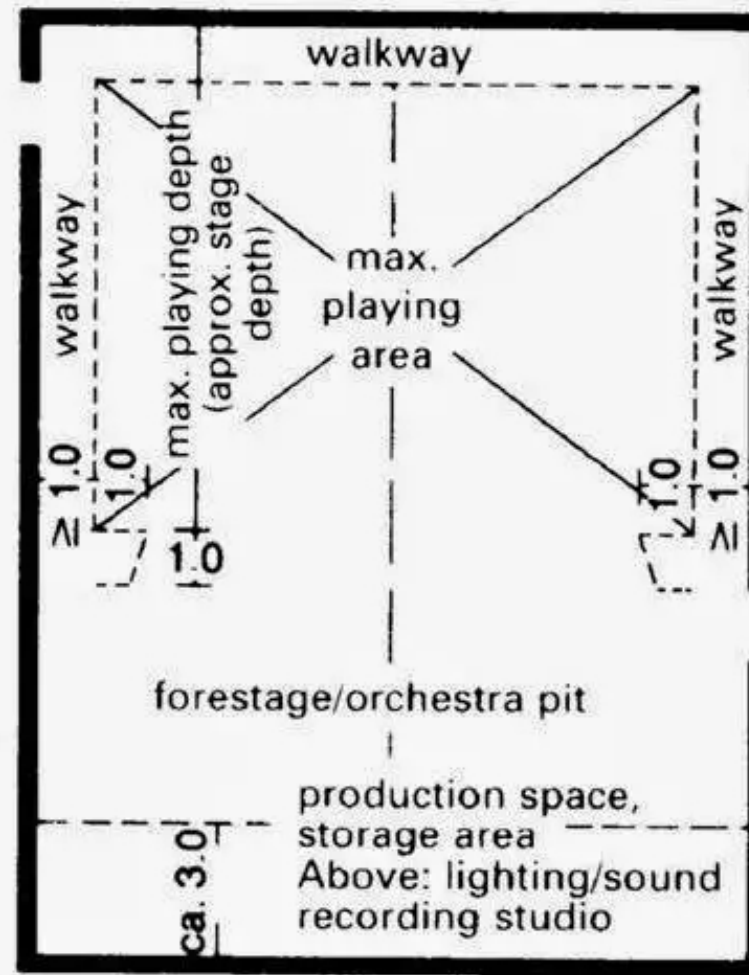
③ Soloists' changing rooms;
min. 5 m²/person



⑧ Changing room for ballet
group; min. 4 m²/person



⑨ Make up and work room
for mask makers



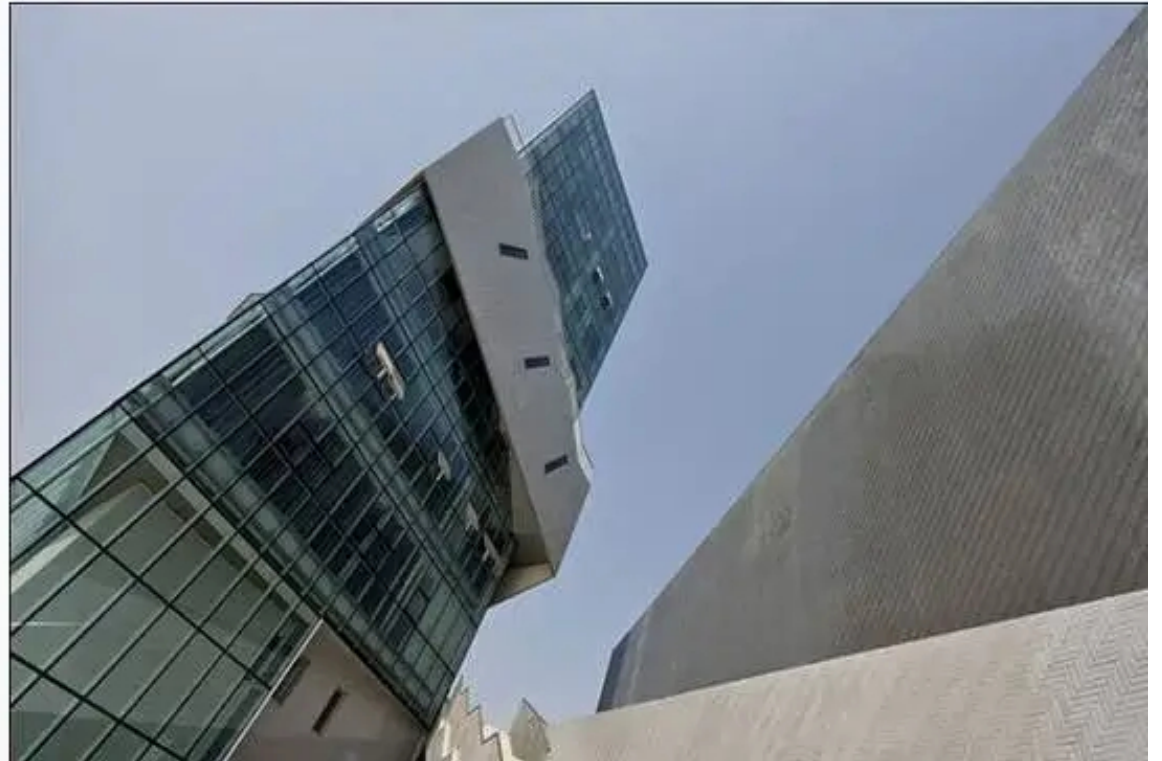
1

Typical large rehearsal stage (plan view)

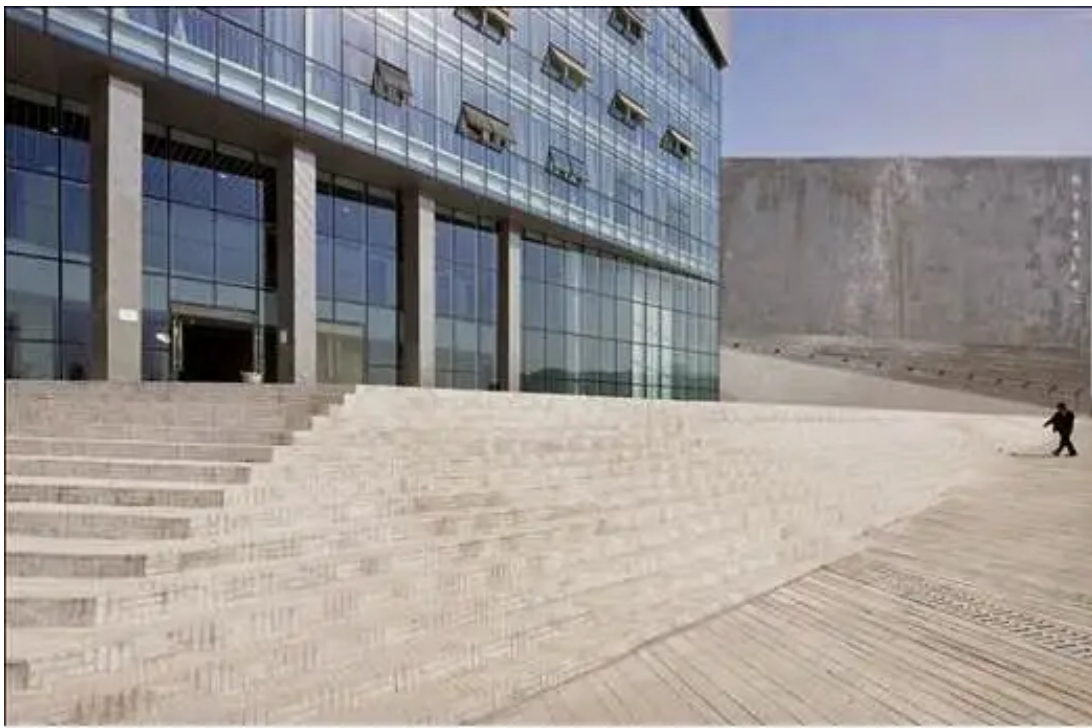
Nanjing Performing Art Centre

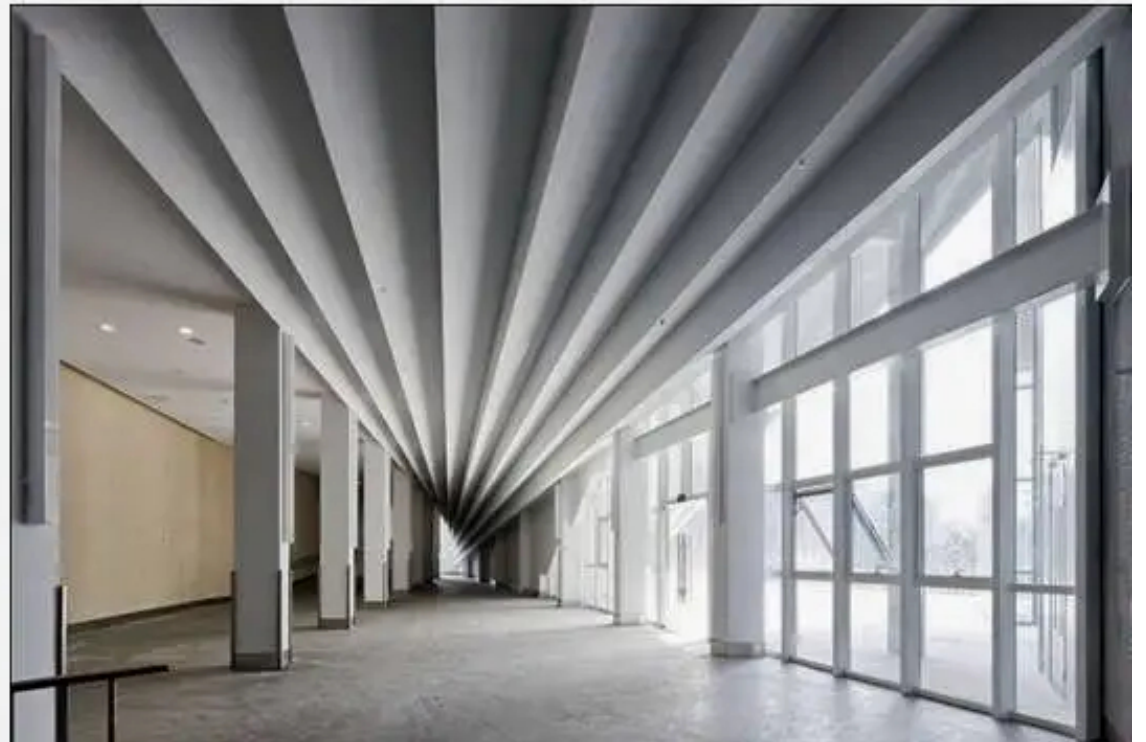
Architectes: Preston Scott Cohen
Inc. , Chinese Architect of record.

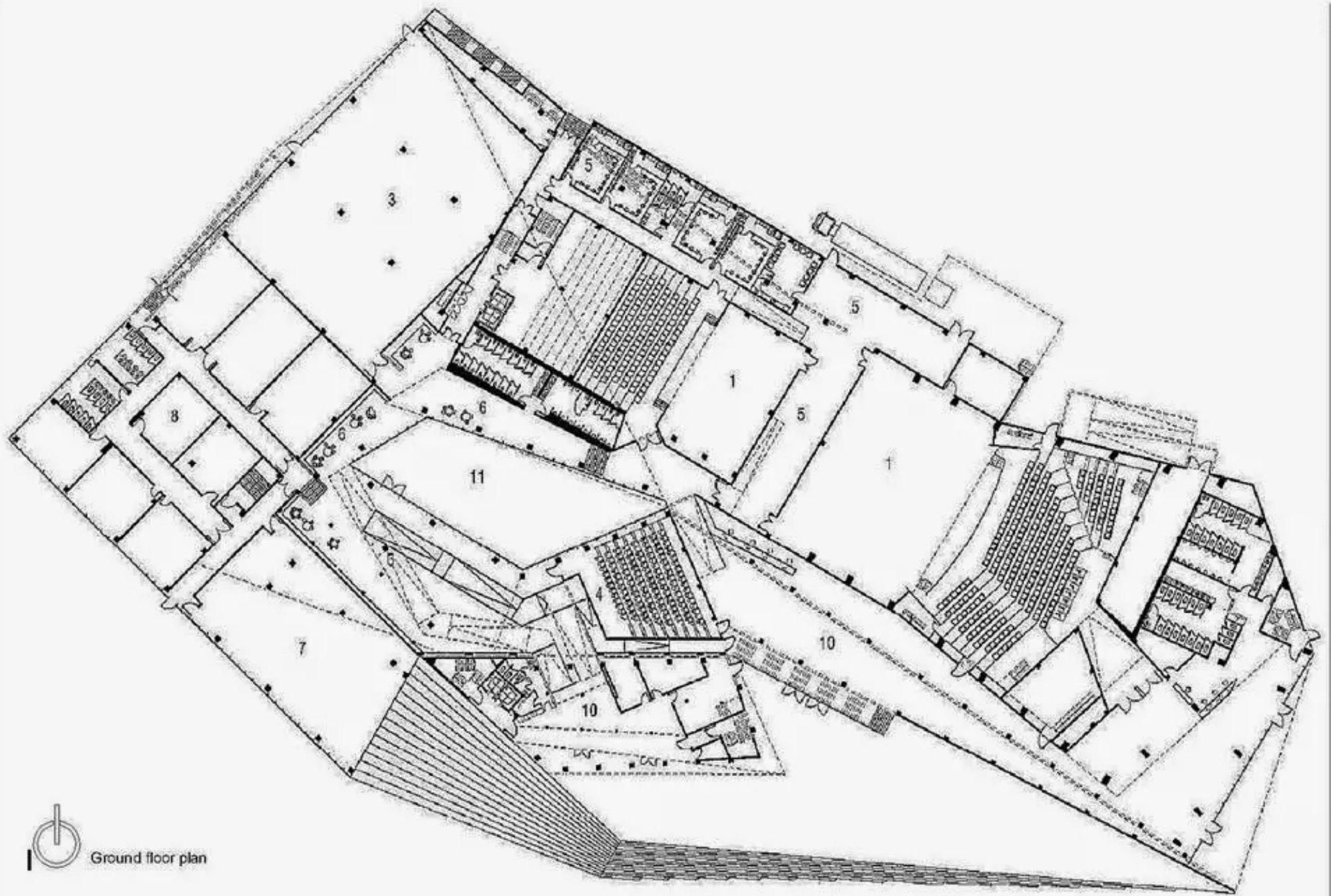
Location: Nanjing, China.

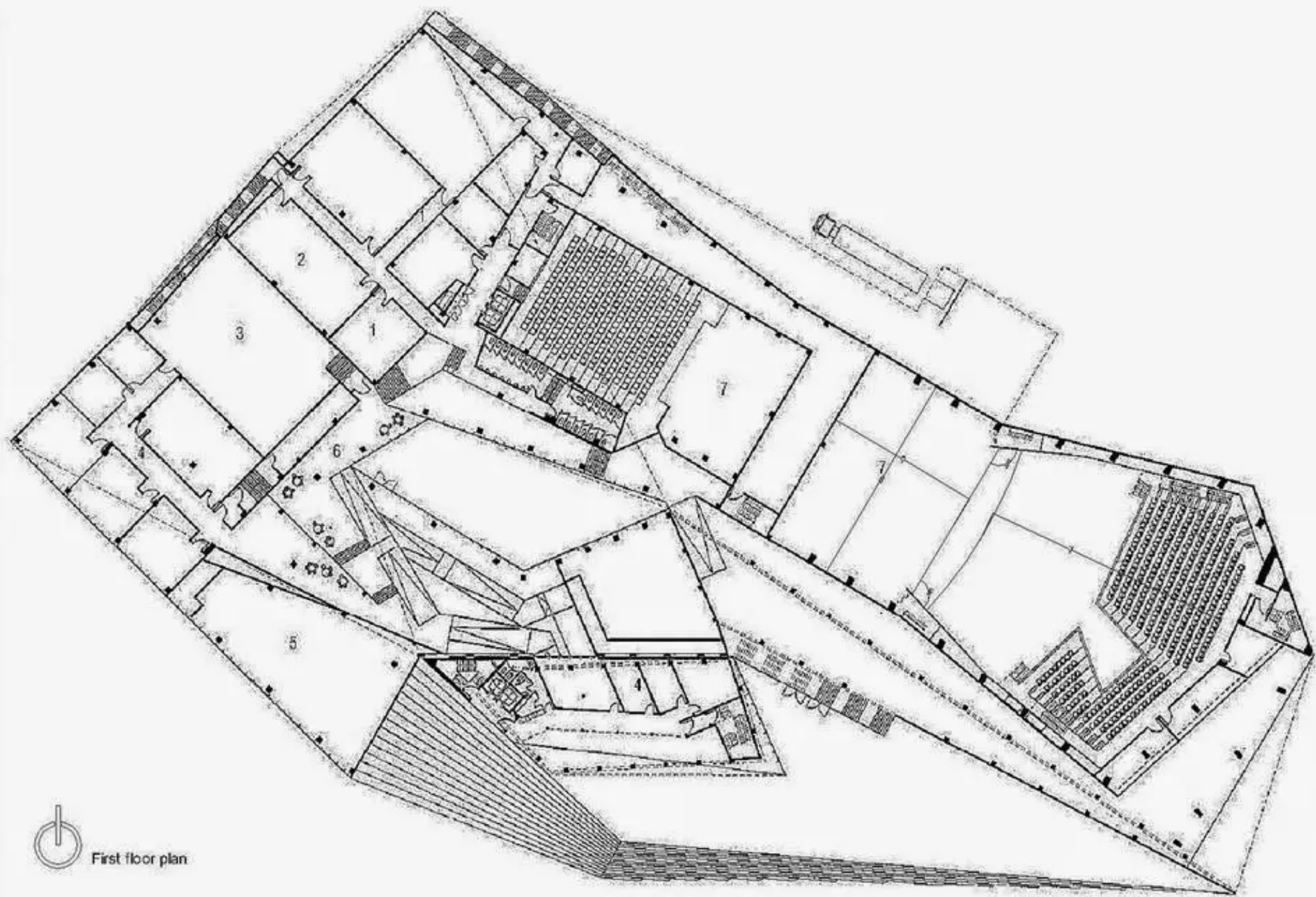




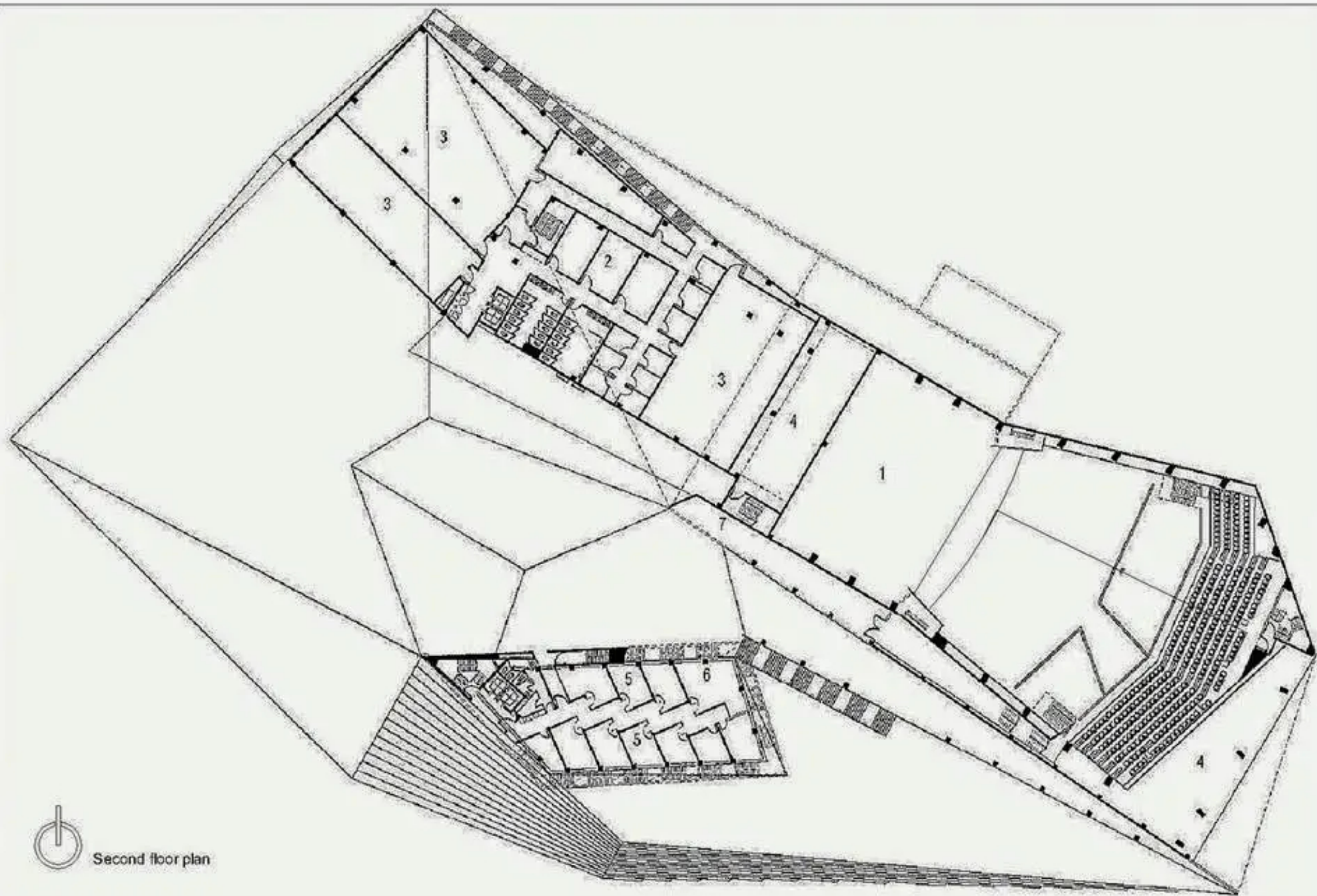


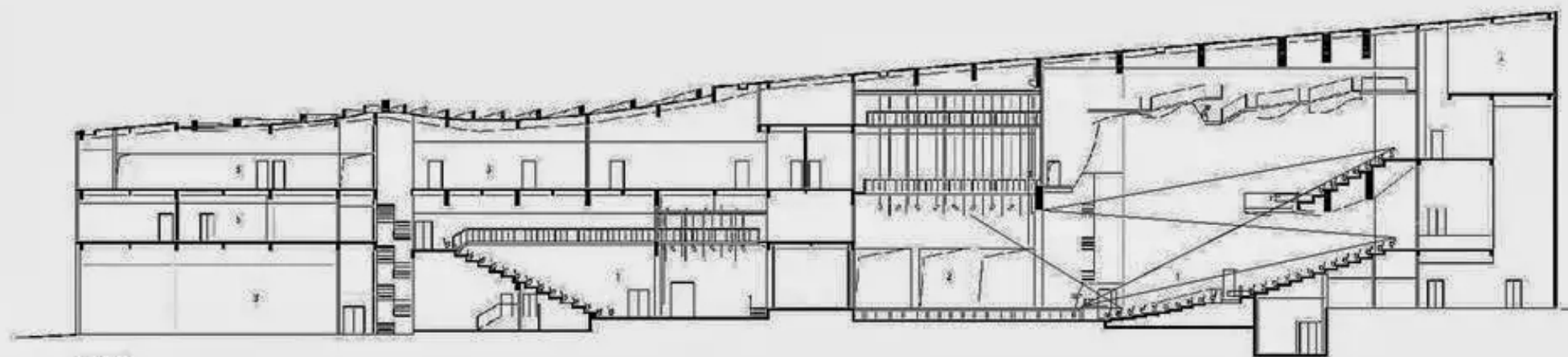






First floor plan





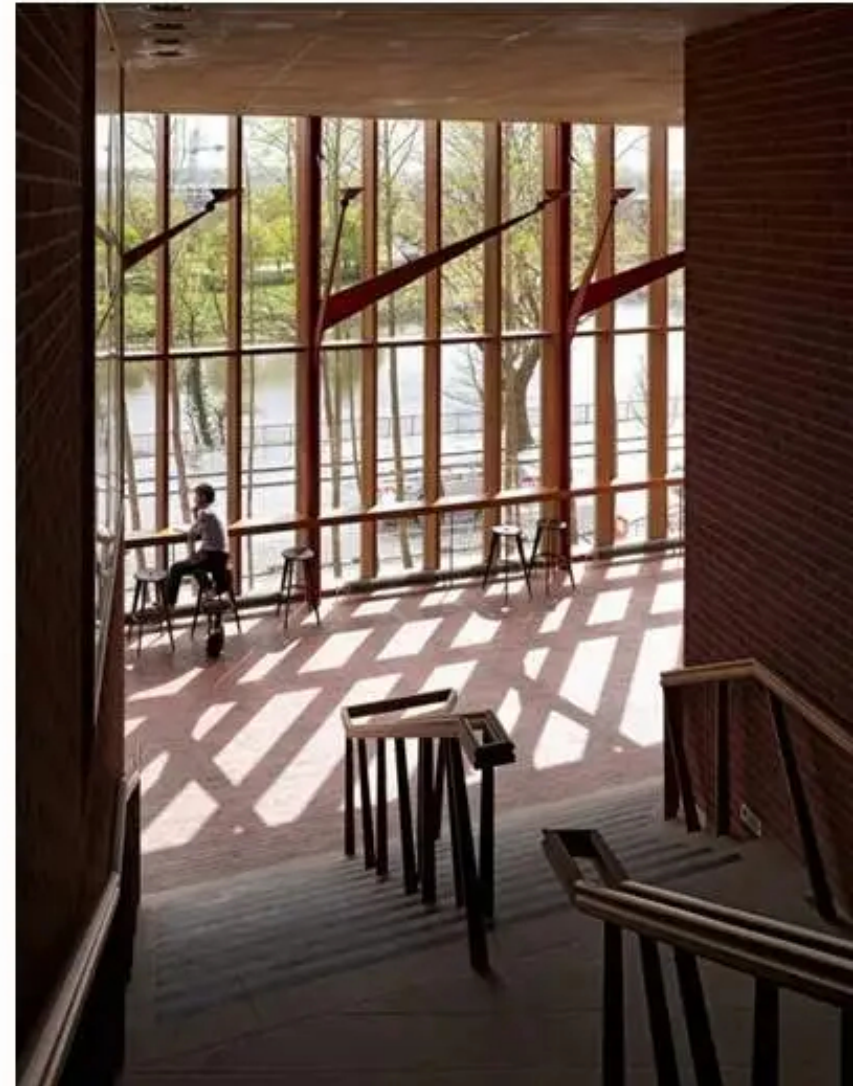
- 1 AND THEATRE
- 2 STAGE
- 3 MEETING ROOM - ALL
- 4 HALL
- 5 CORRIDOR

Lyric Theatre

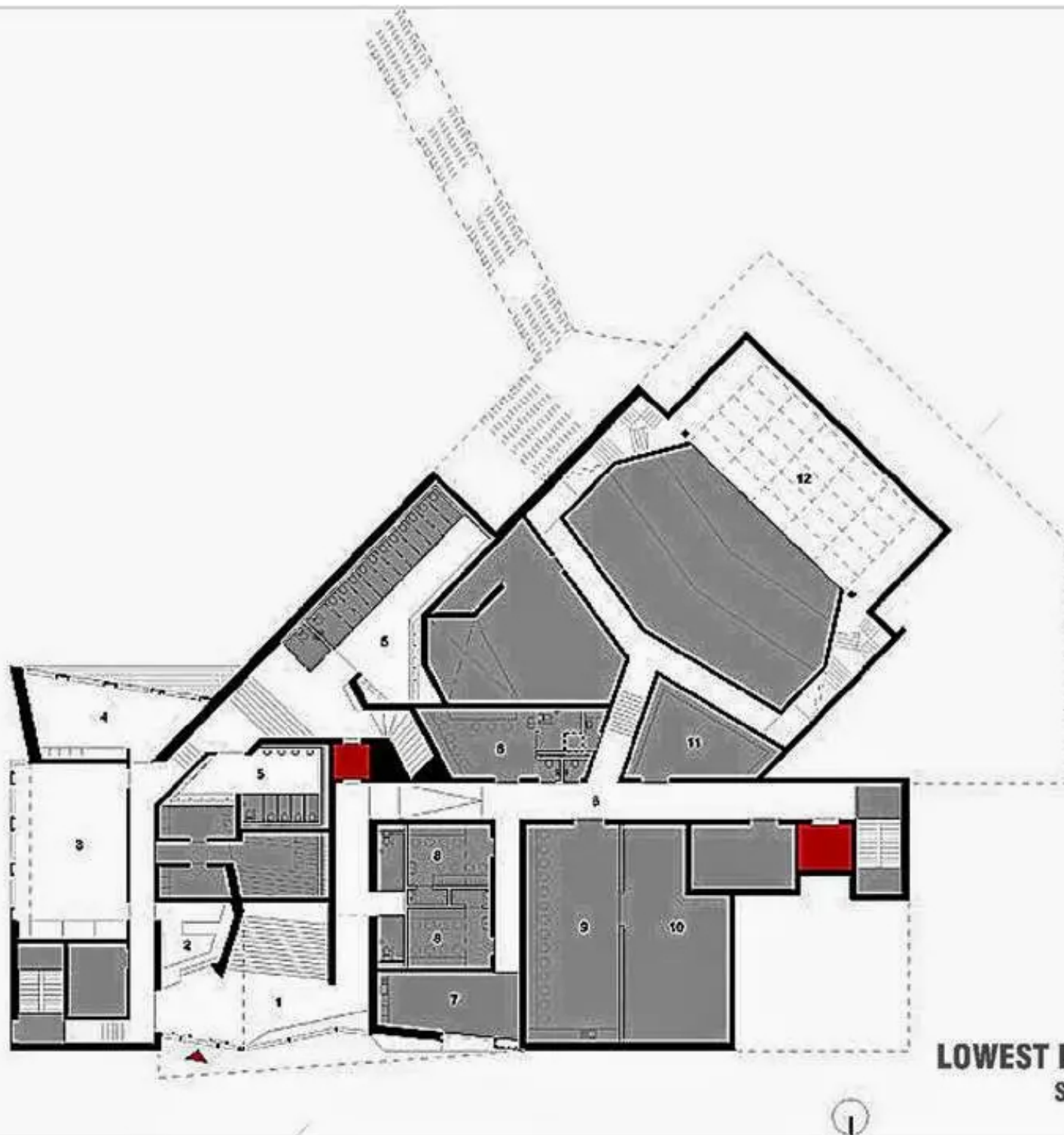
O'Donnell + Tuomey

Location: Ireland.

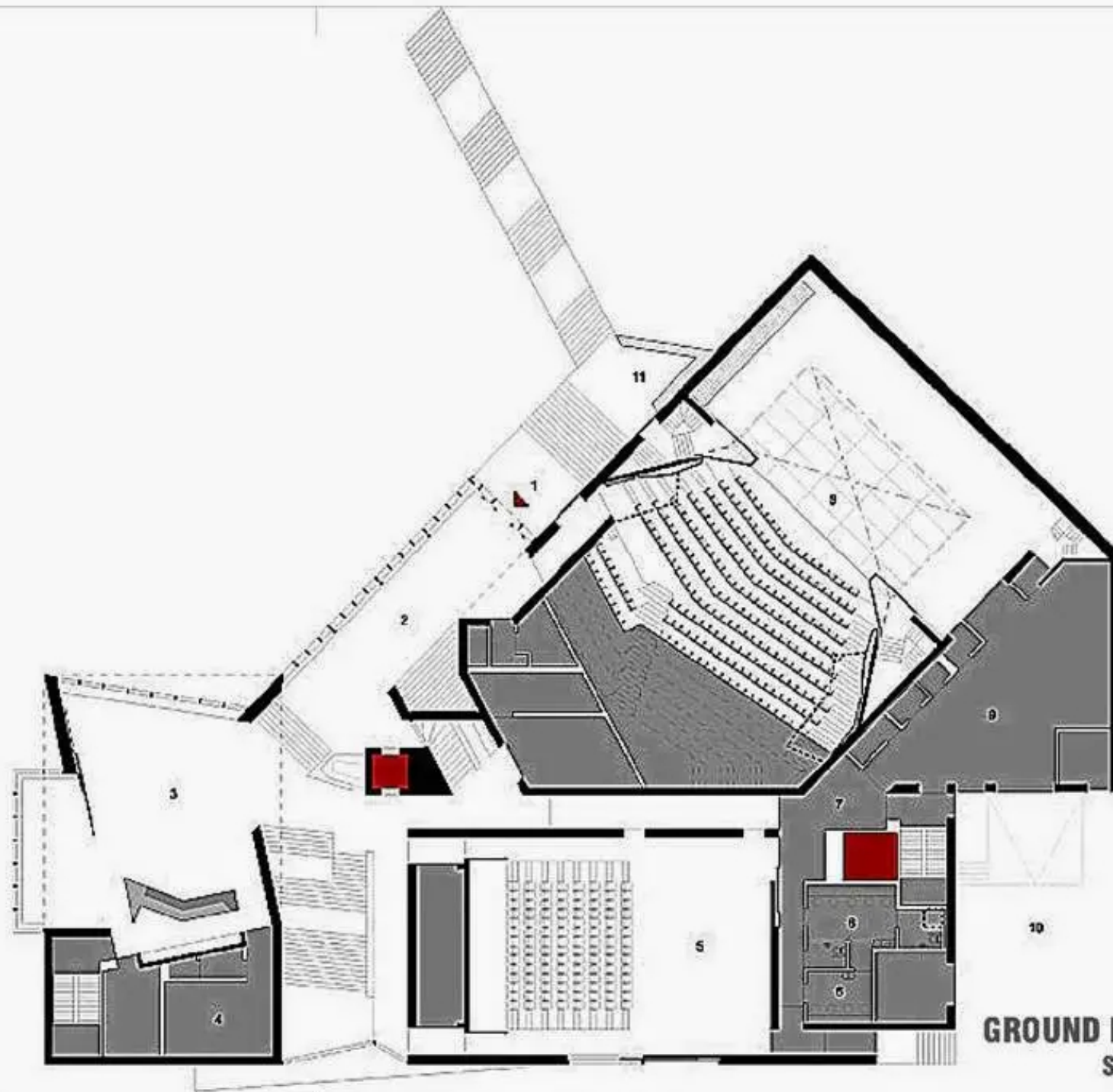




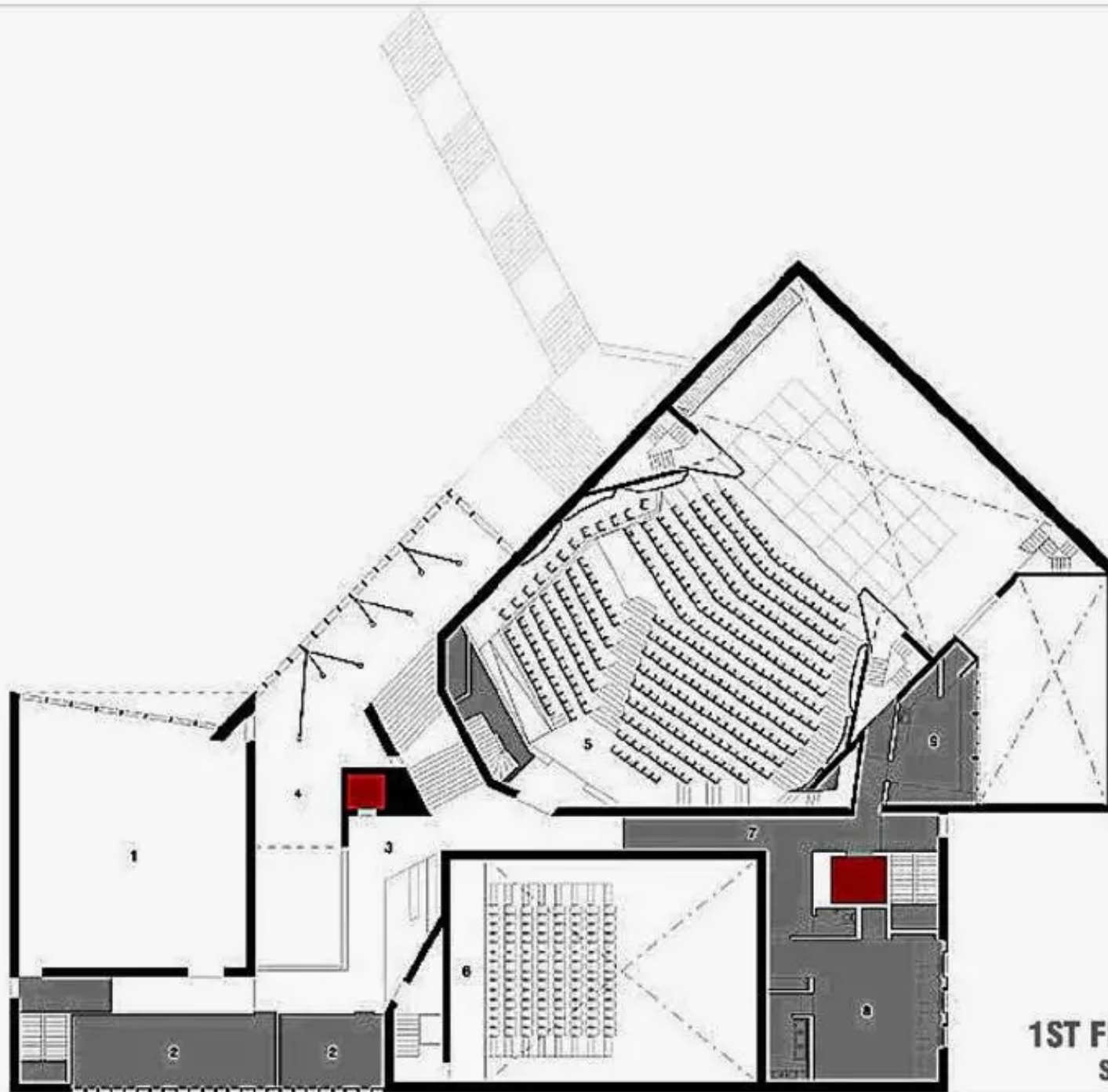




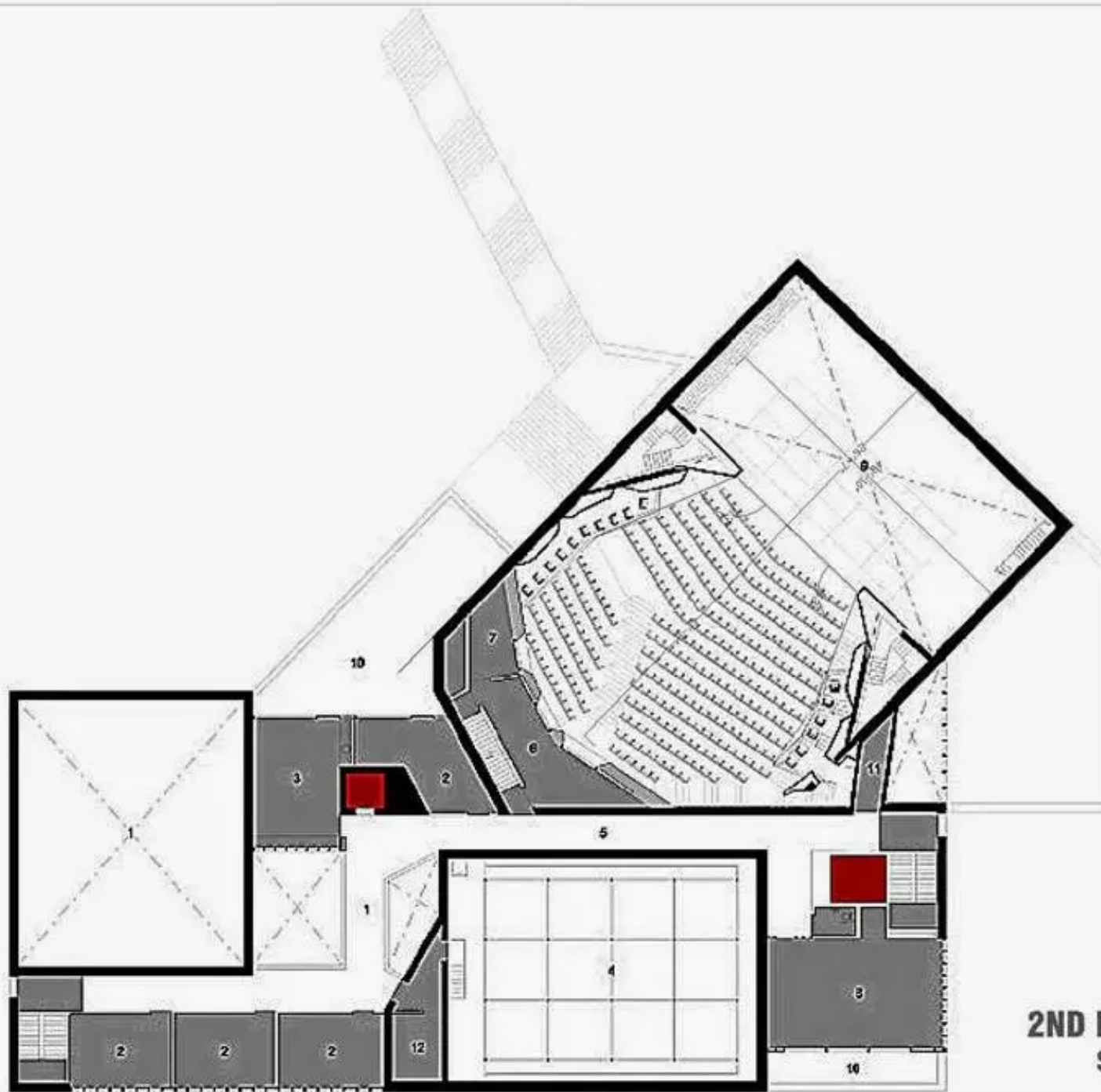
LOWEST LEVEL PLAN
SCALE : 1: 200



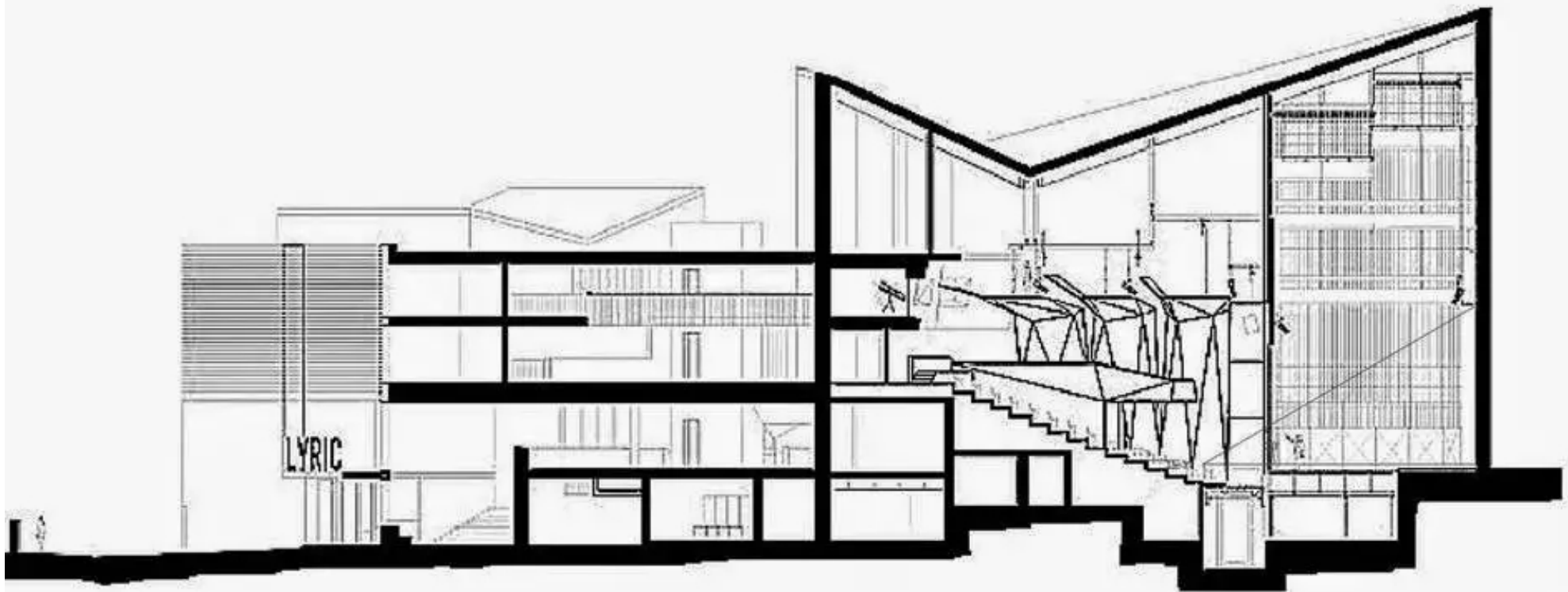
GROUND FLOOR PLAN
SCALE : 1: 200



1ST FLOOR PLAN
SCALE : 1: 200



2ND FLOOR PLAN
SCALE : 1: 200



SECTION BB
SCALE : 1: 200