



National Kaohsiung
CENTER FOR THE ARTS

WEI WU YING 衛武營

國家藝術文化中心

國家表演藝術中心 National Performing Arts Center

OPERA HOUSE

Technical Information

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Last updated : 2022/1/28

0 General Information

0-1 National Kaohsiung Center for the Arts (WEIWUYING)

CENTER FOR THE ARTS, ARTS FOR THE PEOPLE, National Kaohsiung Center for the Arts will become one of the important theatre complexes of the international art field. It includes four performance blocks, the 2,260-seat Opera House, the 2,000-seat Concert Hall, the 1,254-seat Play House and the 470-seat Recital Hall.

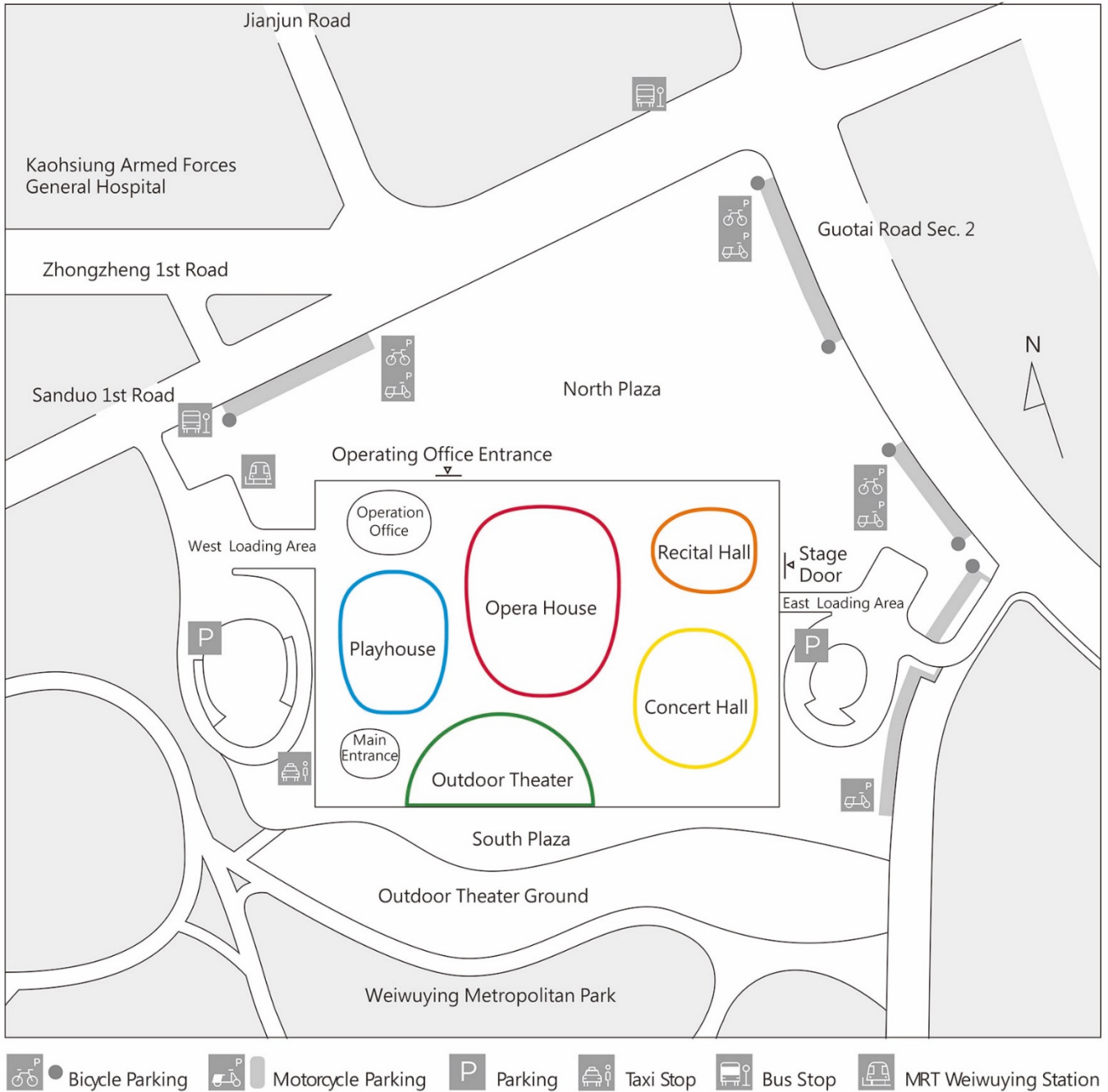


0-2 Opera House

The Opera House is a large-scale stage mainly used for operas, major drama productions, dances, and interdisciplinary performances. It is the largest such facility in Taiwan. The mechanical equipment of the stage is fully automated, whereas the seats are arranged in a horseshoe shape. The Opera House is the first opera house in Taiwan to have a mainframe computer aiding the operation.



0-3 Traffic Information



0-4 Contact Information

National Kaohsiung Center for the Arts (Weiwuying)

No.1, Sanduo 1st Rd., Fengshan Dist., Kaohsiung City 83075, Taiwan

+886 7-262-6666

service@npac-weiwuying.org

0-5 Stage door

Ground floor access is from the north and east side of building. Enter from Operating office entrance on Sanduo 1st Road or Stage Door on Guotai Road.

Basement Level 1 access is from Sanduo 1st Road entrance for Opera House and Playhouse ,Guotai Road entrance for Concert Hall and Recital Hall.

Working pass will be required for entry.

0-6 Auditorium / Seating

2021/05/13

Seating Capacity : 2236 seats

House Seats : 1887 seats (1F/ 542 seats 、2F/ 520 seats 、3F/ 484 seats 、4F/ 341 seats)

Wheelchairs Seats : 14 seats

Companion Seats : 14 seats

Orchestra Pit Seats : 110 seats (Row P1~P4)

Control Area Seats : 16 seats (Row L~M, NO.1~8)

Reserved Seats for Tech Table : 4 seats

Reserved Seats for FOH : 6 seats

Obstructed View Seats : 111 seats (Non-ticketing)

Partial View Seats : 74 seats (Tickets can be sold, and "Partial View" must be marked)

Reserved Seats

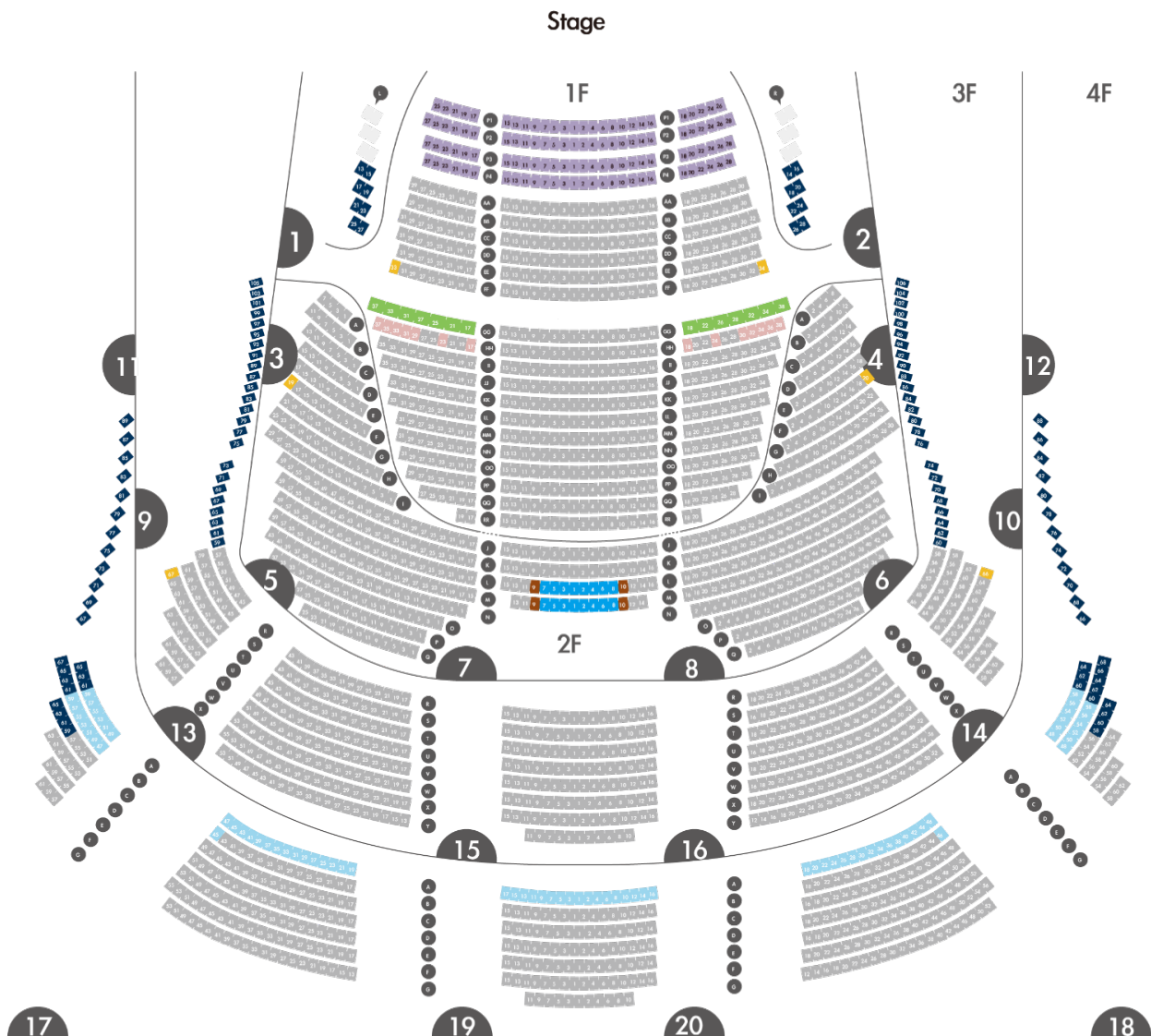


Figure 0.1- Opera House Seating plan

Opera House Set Up Equipment Recommended Seat

Set Up Equipment Seat	Reserved Seat	Notes
1st Floor RR row Seat 1、2	1st Floor QQ row Seat 1、2 1st Floor RR row Seat 3、4	For Photo Shooting & Video Shooting
1st Floor RR row Seat 19	1st Floor QQ row Seat 19、21、23、25、27	For Photo Shooting & Video Shooting
1st Floor RR row Seat 20	1st Floor QQ row Seat 20、22、24、26、28	For Photo Shooting & Video Shooting
1st Floor L、R Box Seat	Not selling seats	For Photo Shooting & Video Shooting
2nd Floor A row Seat 7	2nd Floor A row Seat 5 2nd Floor B row Seat 7、9、11	For Video Shooting
2nd Floor A row Seat 8	2nd Floor A row Seat 6 2nd Floor B row Seat 8、10、12	For Video Shooting
2nd Floor M row Seat 1、2	1st Floor L row Seat 1、2 1st Floor M row Seat 3、4	For Video Shooting
Set Up Control Area	Reserved Seat	Notes
2nd Floor L row Seat 1~8	2nd Floor L row Seat 9、10	
2nd Floor M row Seat 1~8	2nd Floor M row Seat 9、10	

0-7 Plan

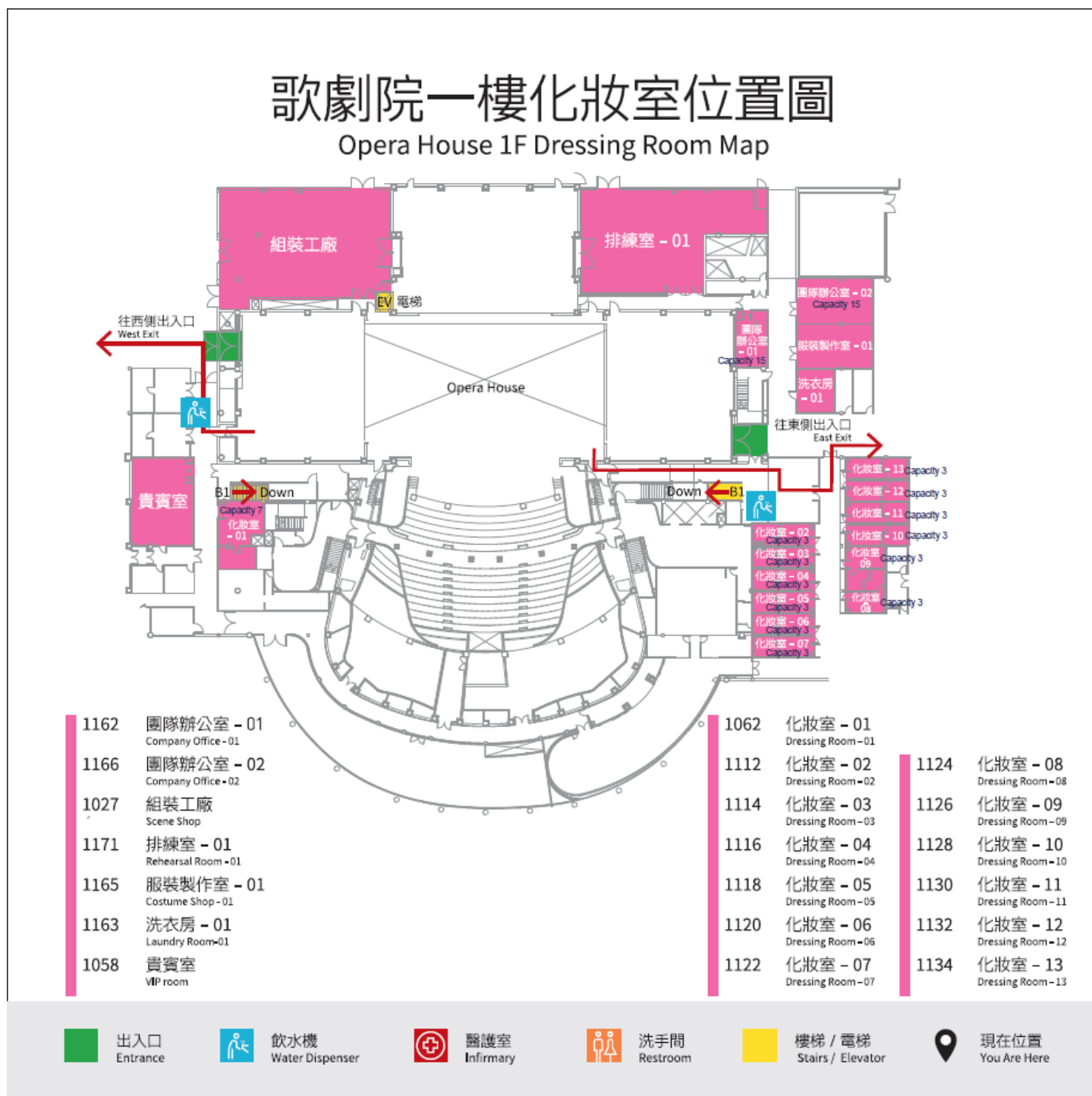


Figure 0.2- Opera House Plan

歌劇院地下一樓化妝室位置圖

Opera House B1F Dressing Room Map

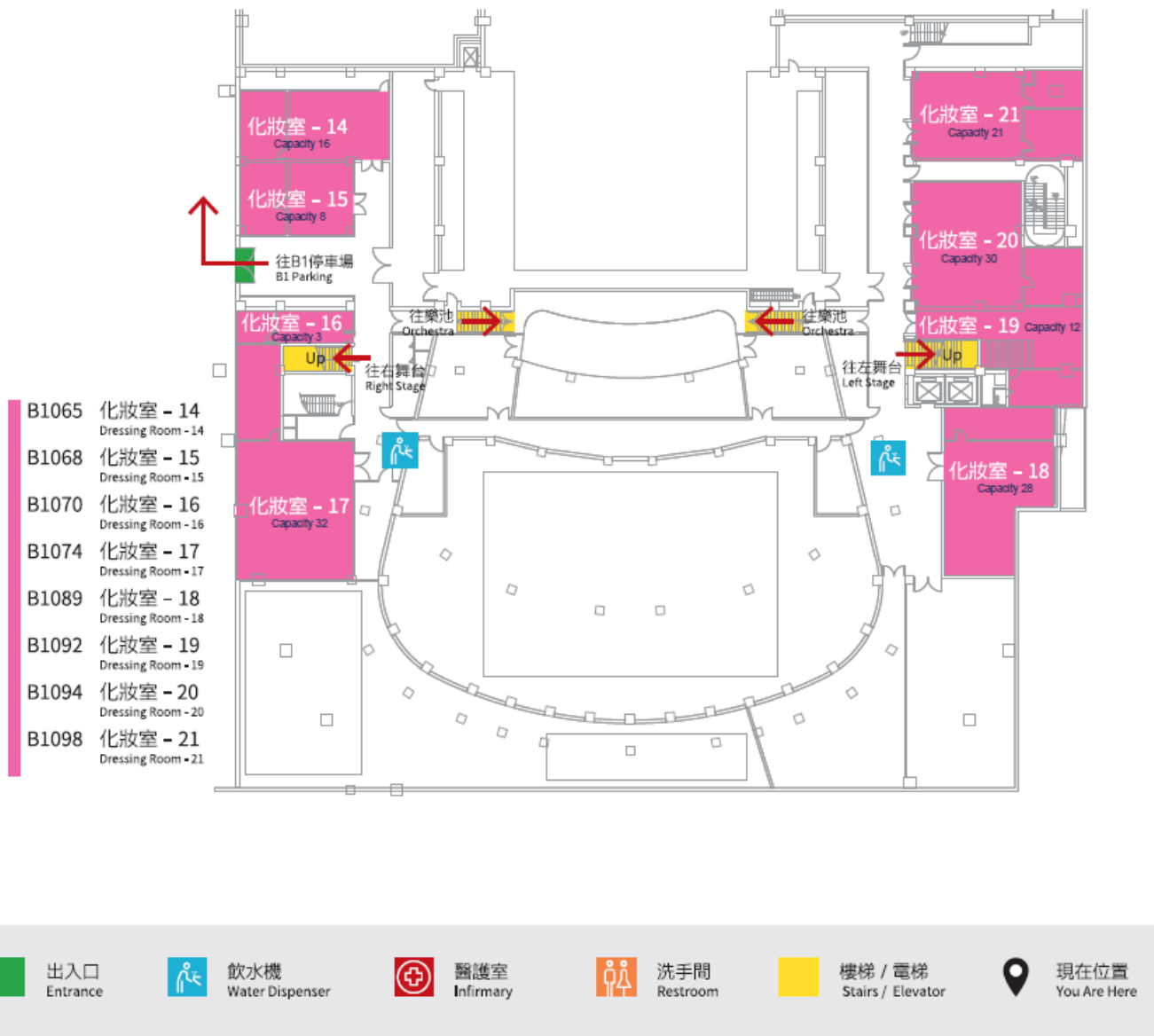


Figure 0.3- Opera House B1 Plan

0-8 Section

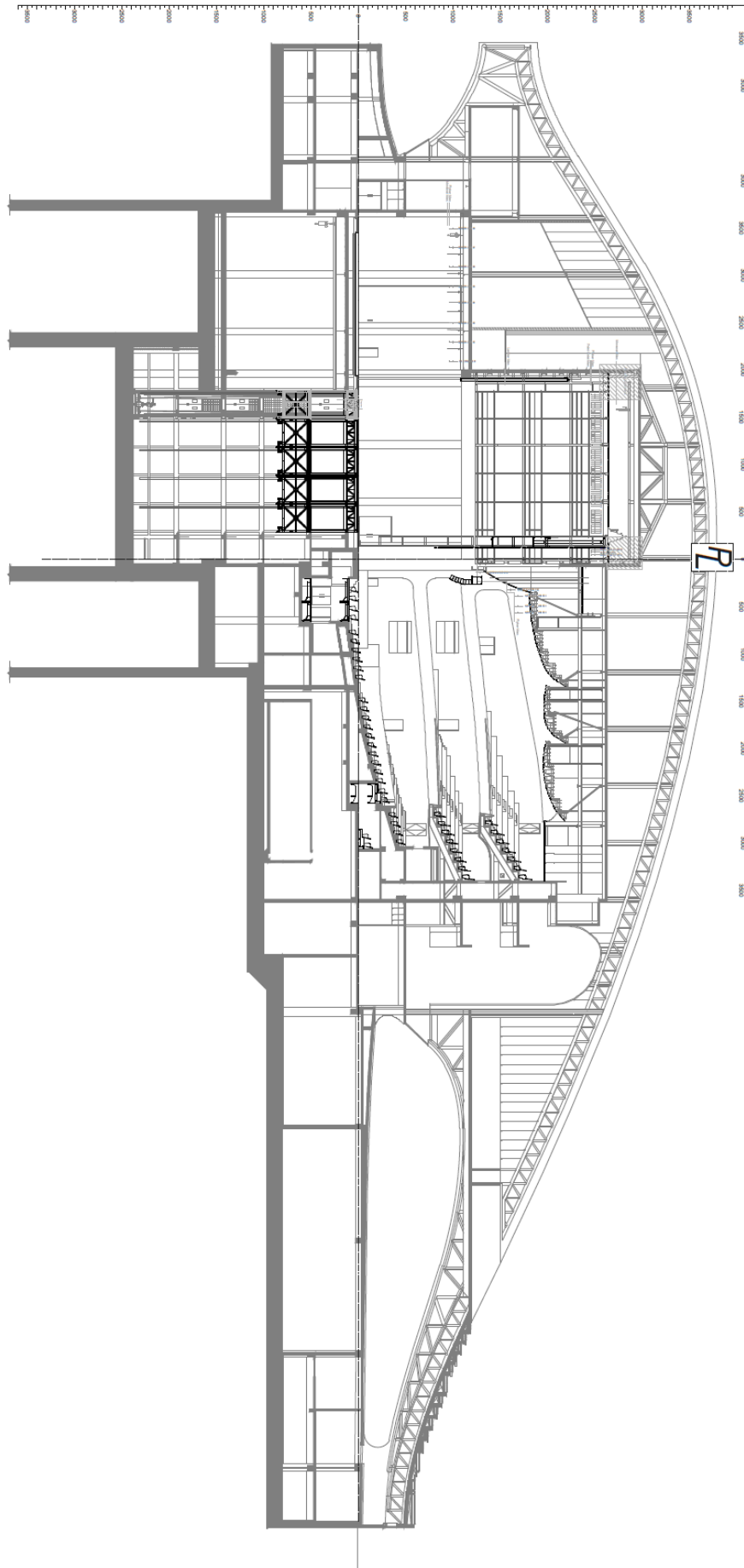


Figure 0.4 Opera House Section

1 Stage

1-1 Stage

1-1-1 Floor

Black painted composite wood stage floor, the production scenery can secure to the deck by screws but no nails in part of stage area. Please contact the technical service for more detail.

1-1-2 False proscenium

The False proscenium consists of movable tormentor and liftable light bridge.

Building Proscenium size: 20m (width) x 12.6m (height)

Movable tormentor opening: 12m to 20m

Lighting bridge elevation: +0.05m to +11.2m

Apron to PL: 1.2m

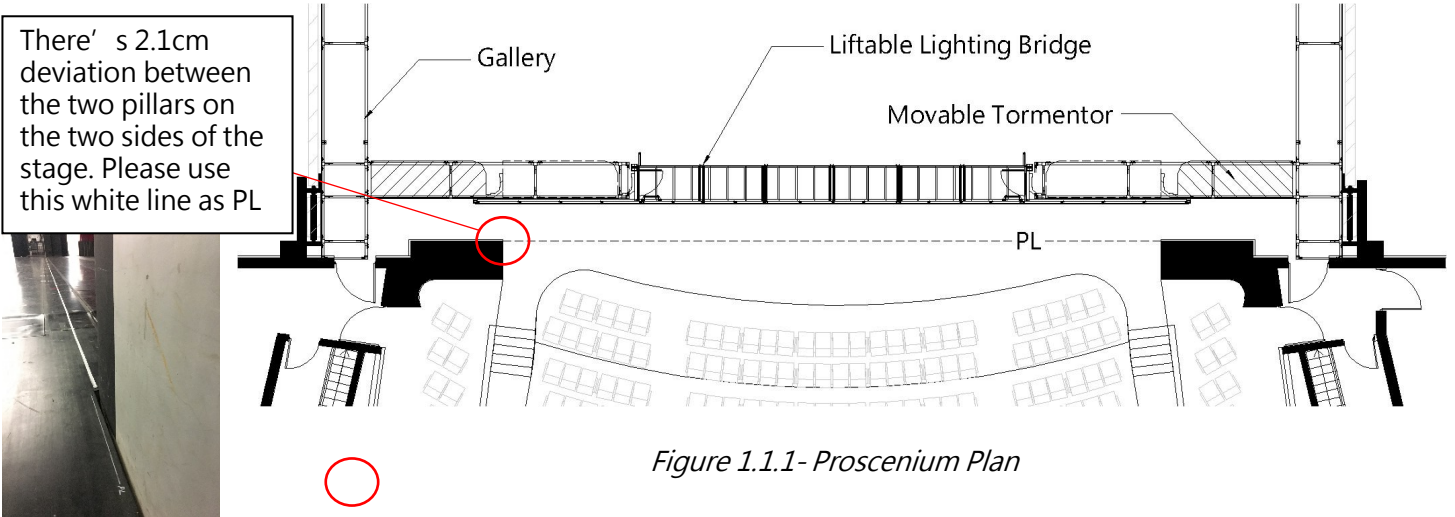


Figure 1.1.1- Proscenium Plan

1-1-3 Stage Dimensions

Main stage: 31.9m (width) x 19.2m (depth) x 25.8 (height) (From stage floor to underside of grid)

Rear stage: 24m (width) x 16.5m (depth) x 11m (height)

Side stage: 17.1m (width) x 19.2m (depth) x 10.7 (height)

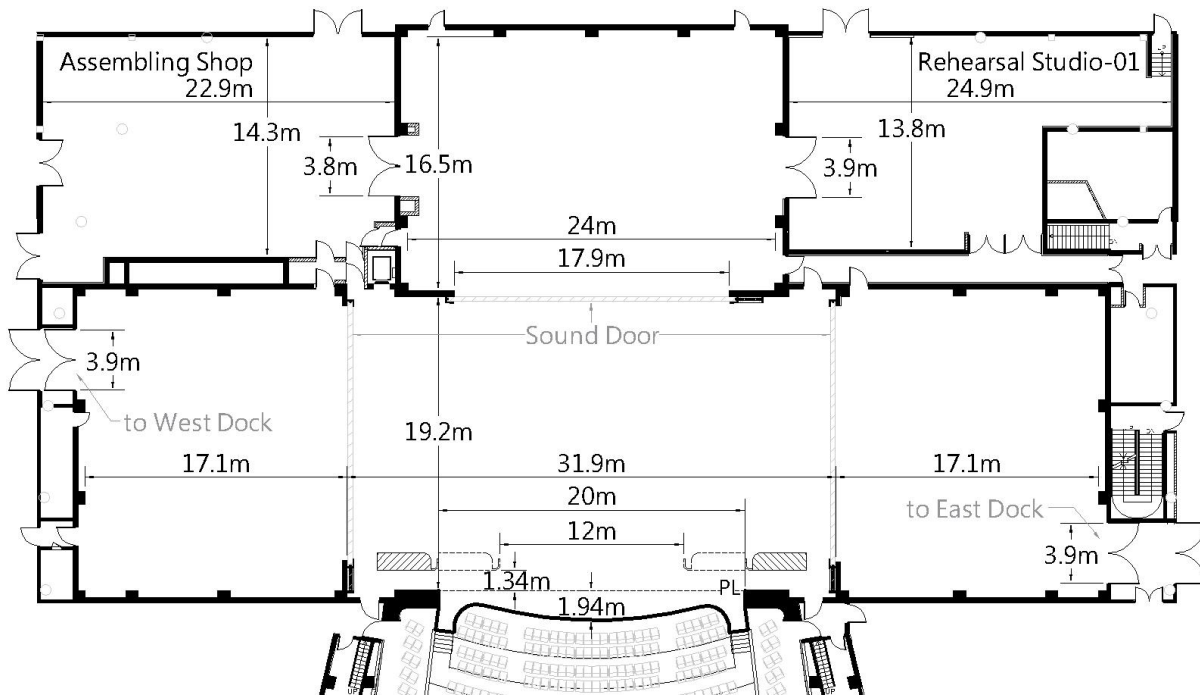


Figure 1.1.2- Stage Plan

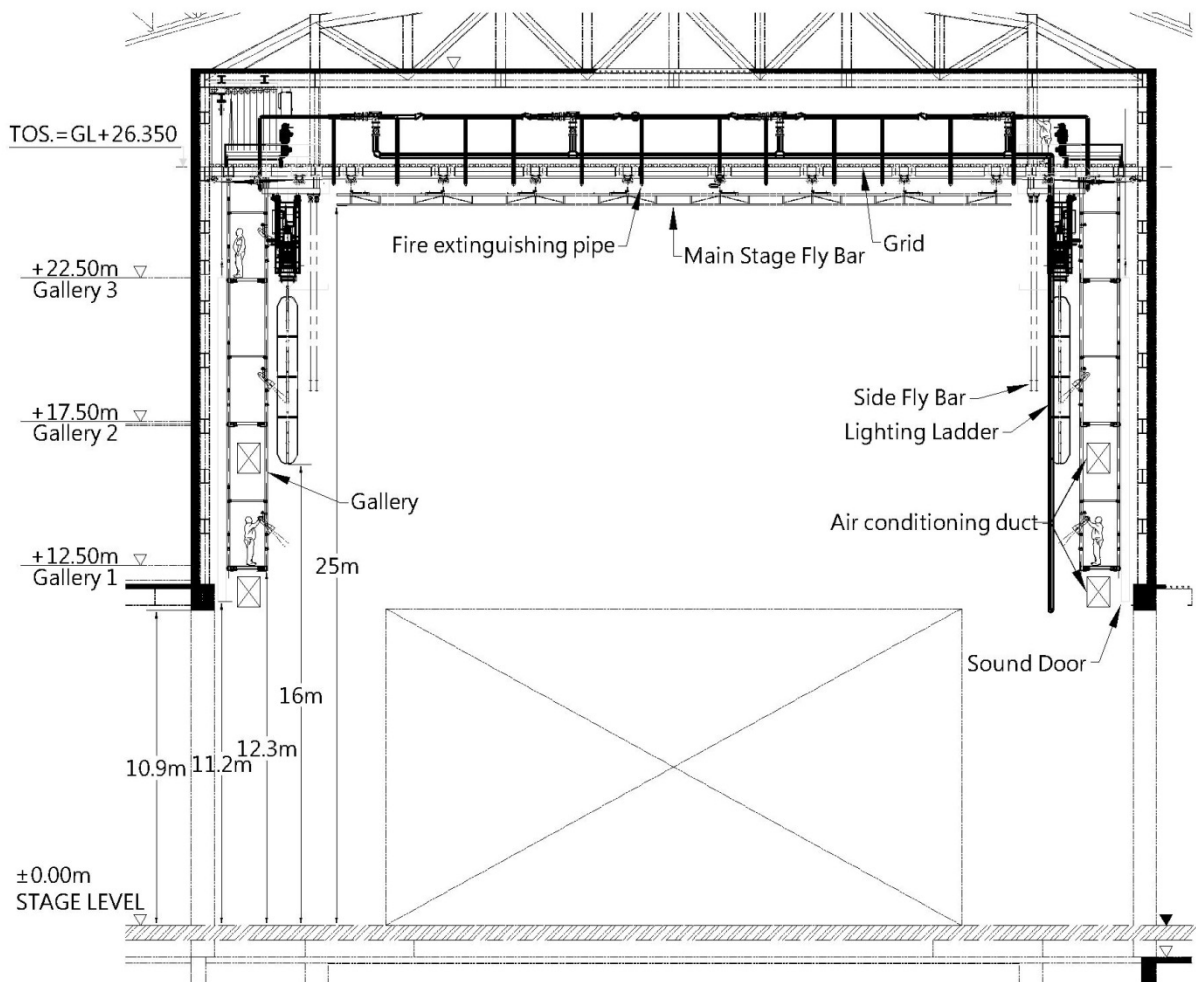


Figure 1.1.3-Stage Elevation

1-1-4 Sound Door

There are three stage sound door between main stage, side stage and rear stage, which can be adjusted according to the performance requirements.

1-1-5 Rehearsal studio -01

There is a separate rehearsal studio connected to the rear stage area.

Size : 24.9 m (width) x 13.8 m (depth) x 10.4 m (height)

Door size(to rear stage) : 4 m (width) x 3.4 m (height)

1-2 Elevation Platform

1-2-1 Orchestra Pit Elevation Platform

Amount: 2 rows, arc shape platform

OP1, 18.6m (width) x 2.49m (depth), 43.2 m²

OP2, 18.6m (width) x 1.98m (depth), 37.5m²

Elevation: -5m to ±0m (stage surface)

Capacity

Dead load : 750kg/ m²

Live load : 500kg/ m²

Speed : 6m/min

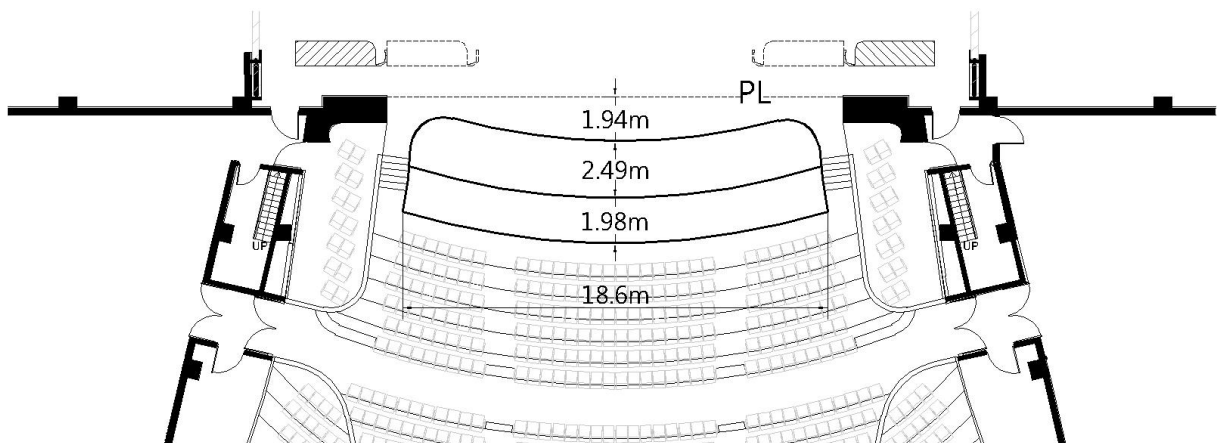


Figure 1.2.1.1- Orchestra Pit Elevation Platform location plan

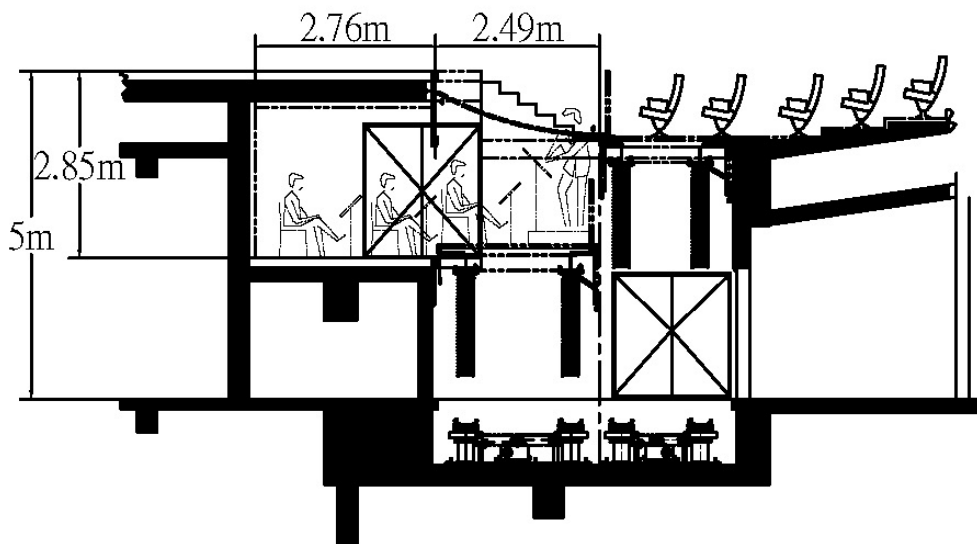


Figure 1.2.1.2- Orchestra Pit Section

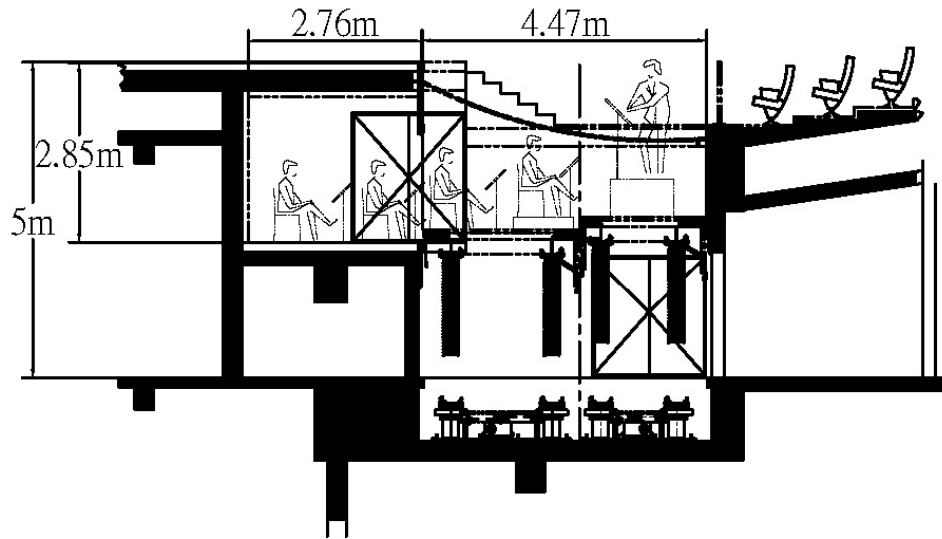


Figure 1.2.1.3- Orchestra Pit Section

1-2-2 Auditorium Control Area Elevation Platform

16 Seats, No.1~8, Row QQ ~RR

For large equipment, please enter the platform from B1 floor.

Size: 4.2m (width) x 1.9m (depth), 8 m²

Elevation: -0.012m (B1) to 2.52m

Capacity

Dead load : 500kg/ m²

Live load : 250kg/ m²

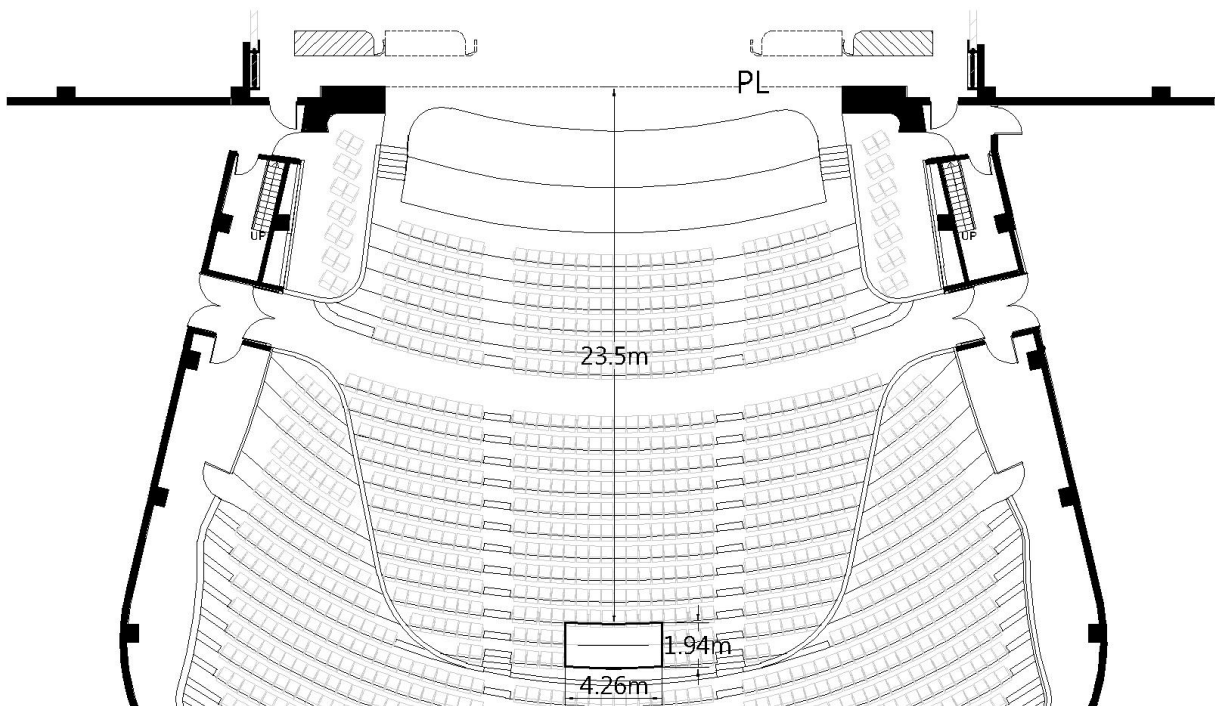


Figure 1.2.2.1- Auditorium Control Area Elevation Platform location plan

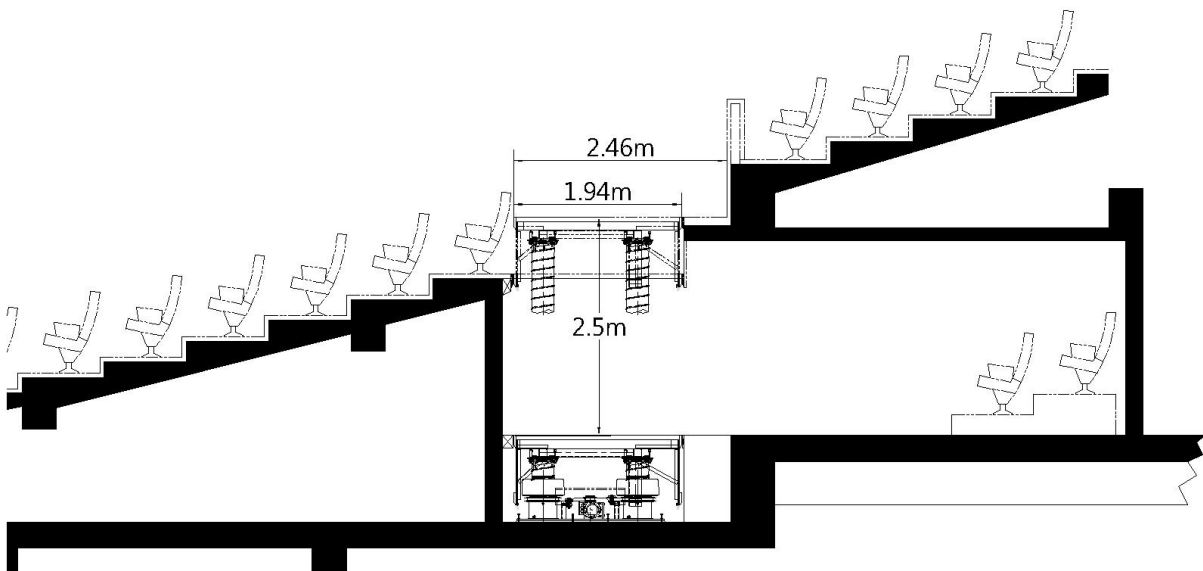


Figure 1.2.2.2- Auditorium Control Area Elevation Platform location plan

1-3 Fly

1-3-1 Controller

Wagner Biro CAT190 x 2, CAT192 x 2, CAT120R x 2

1-3-2 Main Stage Fly bars

24m (length), 4.8cm (diameter), +0.5cm to 24.55m, 74sets

Safe load

0.5 m/s² : 750kg

1.0 m/s² : 500kg

2.0 m/s² : 350kg

1-3-3 House Curtain

guillotine, 27m (length)

Distance to PL: 0.6m

Safe load

0.5 m/s² : 750kg

1.0 m/s² : 500kg

2.0 m/s² : 350kg

1-3-4 Side Fly Bar (2 on both side)

14.8m (length), 4.8cm (diameter), +0.05m to 24.6m, 4 sets

Distance to CL: 12.4m / 12.6m

Safe load

0.5 m/s² : 750kg

1.0 m/s² : 500kg

2.0 m/s² : 350kg

1-3-5 Stage Front Fly Bar

27m (length), 4.8cm (diameter), +0.05m to 24.6m, 2 sets

Distance to PL: 0.25m / 0.95m

Safe load

0.5 m/s² : 750kg

1.0 m/s² : 500kg

2.0 m/s² : 350kg

1-3-6 Rear Stage Fly Bar (load 500kg)

21m (length), 4.8cm (diameter), +0.5m to 9.6m, 8 sets

Lifting speed : 1.2 m/s

Distance to PL: 21.05m / 23.05m / 25.05m / 27.05m / 29.05m / 31.05m / 33.05m / 35.05m

Safe load

1.2 M/ S² : 500 kg

1-3-7 Auditorium Fly Bar

20m (length), 4.8cm (diameter), 5 sets

AFB01 +0.05m to 12.5m

AFB02 +0.0m to 15.7m

AFB03 +0.05m to 16.5m

AFB04 +0.05m to 16.5m

AFB05 +0.05m to 16.5m

Distance to PL: -1.40m / -3.15m / -3.95m / -4.75m / -5.55m

Safe load

0.5 M/ S² : 1,000 kg

2.0 M/ S² : 350 kg

1-3-8 Lighting Ladder (6 on both side stage)

Size : 6.2m (height) x 0.69m (width) x 0.72m(depth)

Distance to CL: 13.4m

Safe load

0.5 M/S2 : 750 kg

1.0 M/S2 : 500 kg

2.0 M/S2 : 350 kg

1-3-9 Light Bridge under bar (load 1000 kg)

11.5 m (length), 4.8cm (diameter), 1 set +1.05m to 12.2 m

Capacity : 95kg/ m

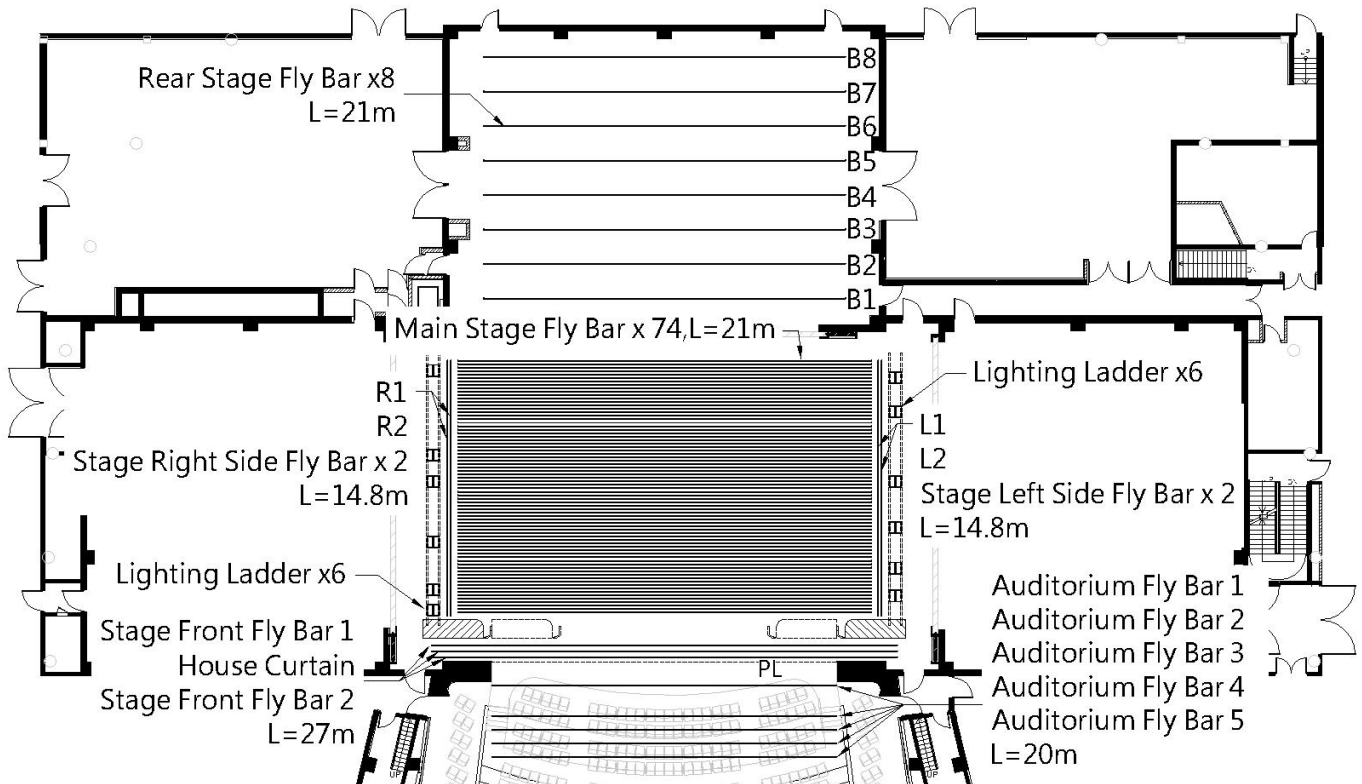


Figure 1.3.1- Rigging Plan

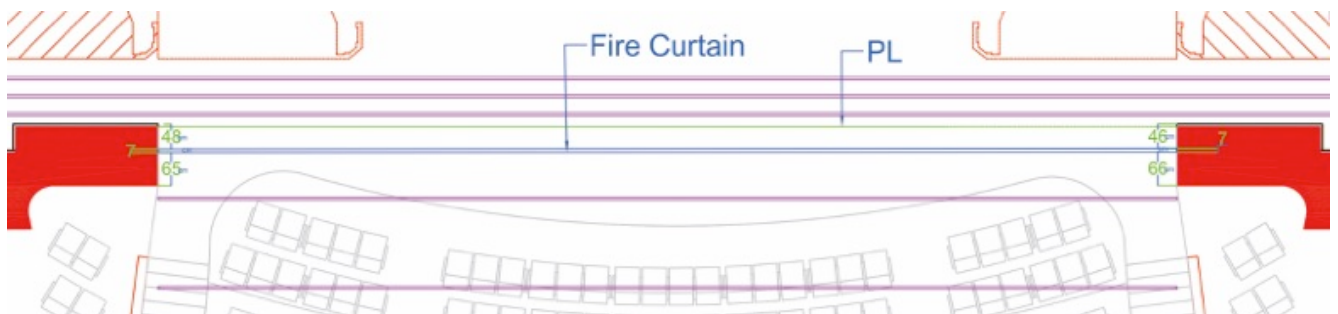


Figure 1.3.2- Fire Curtain

※ Area underneath the fire curtain must stay clear to allow the curtain to fall into position. Without advanced permission, to set any scenic pieces in this area is strictly prohibited. Only when permitted by the house, the units that could be removed rapidly or damaged can be on the deck. If there is circuit that must go through the area, we accept flat tapping down the cables, and unplugging the instruments before leaving.

1-4 Hoisting

1-4-1 Point Hoist (load 250kg)

8 sets, winch line length 31.2m, lifting speed: 0 to 1.8m/s

Operation range: available for using on grid area. Boundless except for Fly Bars operation space.

1-4-2 Chain Hoist with Trolley (load 1000kg, fixed speed: 9.6m/min)

Grid: 10 sets, operation length 30m (Boundless except for Fly Bars operation space)

Side stage: 8 sets, operation length 12m

Rear stage: 14 sets, operation length 10m

1-4-3 Chain Hoist for House Speakers (load 1000kg, fixed speed: 9.6m/min)

Speakers on both sides of the auditorium are fixed in the suspended hall

4 sets, operation length 30m, lifting speed: 9.6m/min

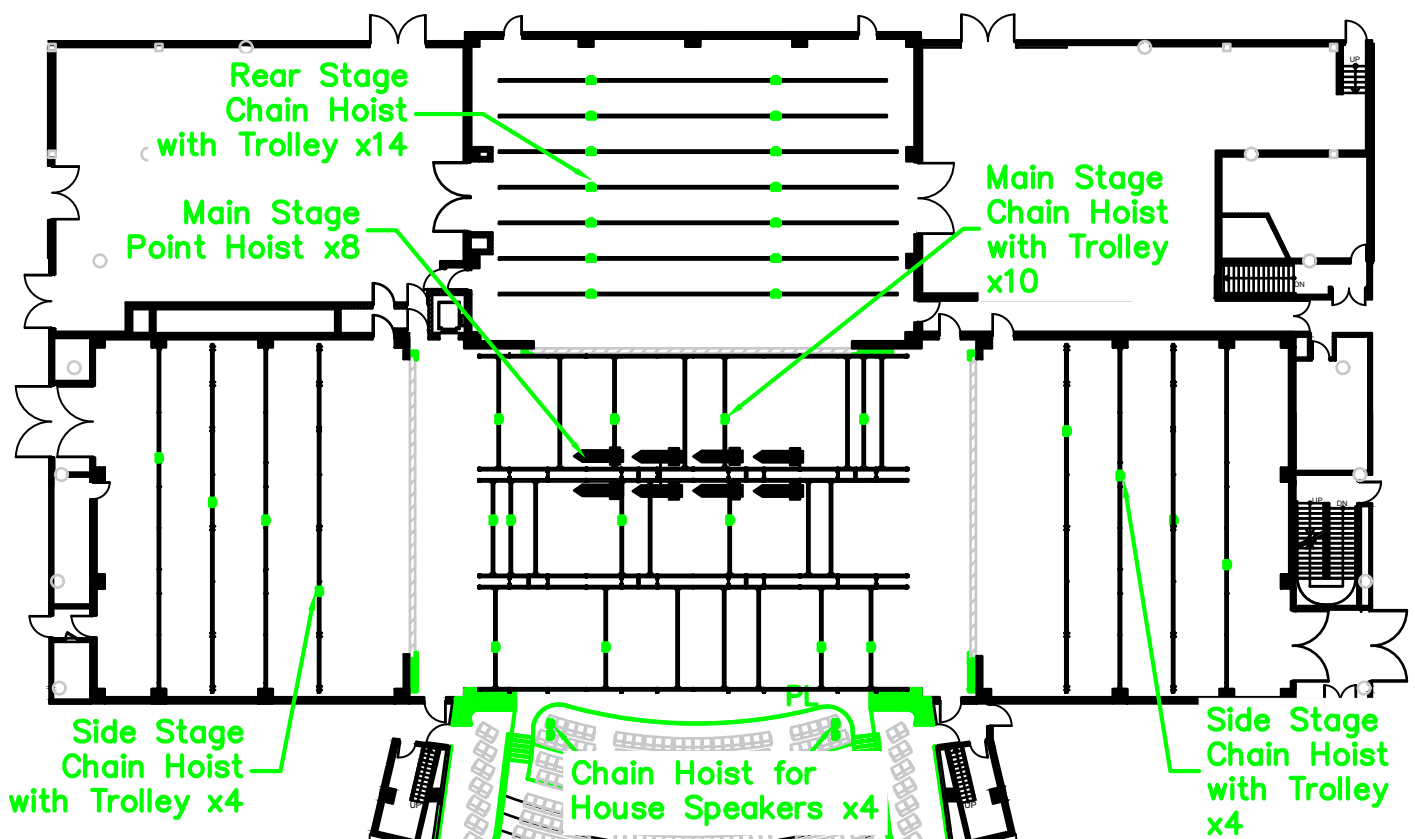


Figure 1.4.1- Hoisting plan

1-5 Curtain and Others

Item Number	Product Name	Quantity	Notes (Unit: Meter)	Paid Item
01	House Curtain	1 pair	13 x 12.9 ShowTex –Paris CS(Black)	
02	Border	6	4.5 × 24 ShowTex –Bellini	
03	Border	3	3 × 24 ShowTex –Bellini	
04	Leg	22	12 × 4.5 ShowTex –Bellini	
05	Leg	12	12 × 3 ShowTex –Bellini	
06	Tab	10	12.3 × 3 ShowTex –Bellini	
07	Cyclorama (Rear Projection Screen) Grey	1	11.5 × 24 ShowTex – Retro Screen Grey plus.	* The first piece is rent-free. The second piece will be charged. Please refer to the rate tables of National Kaohsiung Center for the Arts.
08	Cyclorama (Rear Projection Screen) Black	1	10.5 × 22 ShowTex – Retro Screen Black.	
09	Black Scrim 6pt	1	10.5 x 24 ShowTex - Sharks Tooth Scrim 6 point.	*
10	Black Scrim 8pt	1	10.5 x 24 ShowTex - Sharks Tooth Scrim 8 point.	*
11	White Scrim 6pt	1	10.5 x 24 ShowTex - Sharks Tooth Scrim 6 point.	*
12	Cotton Cyclorama	1	11.5 × 24 ShowTex –Cyclo 270	
13	Black Backdrop	1	12 × 22 ShowTex –Bellini	
		2	12 × 12 ShowTex –Bellini	
14	Wooden Floor 2m*1m	152pc	1. Shared with Playhouse. 2. Area (installation area adjustable) 20m x 16m, built-up, portable with latch, wooden plywood with high density mitigation block, 3.7 cm (depth),point load 1000kg, average shock-absorbing ability 65 %.	
15	Wooden Floor 1m*1m	16pc		
16	Black Dance Floor For Wooden Floor only	8 rolls	1.20m (length) x 2m (width) x 2mm (depth). 2.Shared with Playhouse	
17	Black and Gray Dance Floor	18 rolls	1. 20m (length) x 2m (width) x 1.7mm (depth). 2. Shared with Playhouse.	
18	Black and Gray Dance Floor	18 rolls	1.22m (length) x 0.95m (width) x 1.8mm (depth) 2.Standard equipment	
19	Hydraulic Lift Platform	1	1.1.8M(length) x 0.9M (width) · Elevation : 1M-1.5M 2. Shared with Playhouse	*

Items with * mark are paid items. Please refer to the rate tables of National Kaohsiung Center for the Arts.

1-6 Fly Bar List

Bar Number	Distance to PL	Content	Length (cm)	Bar Number	Distance to PL	Content	Length (cm)
FLYBARS_AUDITORIUM / High Limitation : AFB01-12.5m 、 AFB02-15.7m 、 AFB03~5-16.5m Low Limitation : 1.25m							
AFB05	-565		2000				
AFB04	-495		2000				
AFB03	-390		2000				
AFB02	-325		2000				
AFB01	-145		2000				
PL							
GAUZE_BARS							
GB02	45		2700				
HC	60	HOUSE_CURTAIN Guillotine	2700 (1300 h x 1290w *2)				
GB01	95		2700				
FLYBARS_STAGE. / High Limitation : 24.6m Low Limitation : 1.25m							
FB01	275		2400	FB38	1015		2400
FB02	295		2400	FB39	1035		2400
FB03	315		2400	FB40	1055		2400
FB04	335		2400	FB41	1075		2400
FB05	355		2400	FB42	1095		2400
FB06	375		2400	FB43	1115		2400
FB07	395		2400	FB44	1135		2400
FB08	415		2400	FB45	1155		2400
FB09	435		2400	FB46	1175		2400
FB10	455		2400	FB47	1195		2400
FB11	475		2400	FB48	1215		2400
FB12	495		2400	FB49	1235		2400
FB13	515		2400	FB50	1255		2400
FB14	535		2400	FB51	1275		2400
FB15	555		2400	FB52	1295		2400
FB16	575		2400	FB53	1315		2400
FB17	595		2400	FB54	1335		2400
FB18	615		2400	FB55	1355		2400
FB19	635		2400	FB56	1375		2400
FB20	655		2400	FB57	1395		2400
FB21	675		2400	FB58	1415		2400
FB22	695		2400	FB59	1435		2400
FB23	715		2400	FB60	1455		2400
FB24	735		2400	FB61	1475		2400
FB25	755		2400	FB62	1495		2400
FB26	775		2400	FB63	1515		2400
FB27	795		2400	FB64	1535		2400
FB28	815		2400	FB65	1555		2400

FB29	835		2400	FB66	1575		2400
FB30	855		2400	FB67	1595		2400
FB31	875		2400	FB68	1615		2400
FB32	895		2400	FB69	1635		2400
FB33	915		2400	FB70	1655		2400
FB34	935		2400	FB71	1675		2400
FB35	955		2400	FB72	1695		2400
FB36	975		2400	FB73	1715		2400
FB37	995		2400	FB74	1735		2400
FLYBARS_SIDE / High Limitation : 24.6m Low Limitation : 1.25m							
SFB01	1240		1480	SFB03	1240		1480
SFB02	1260		1480	SFB04	1260		1480
FLYBARS_REAR / High Limitation : 12m Low Limitation : 1.25m							
FBR01	2090		2100	FBR05	2875		2100
FBR02	2290		2100	FBR06	3090		2100
FBR03	2490		2100	FBR07	3290		2100
FBR04	2710		2100	FBR08	3490		2100

2 Lighting

2-1 Lighting instrument

Important : All lighting data is on network system.

Item	Position	Model	Specifications	Quantity	Frame Size	Note	Paid Item	
Lighting Console	Control Booth	GrandMA 2 Light		1				
	Auditorium			1				
Dimmer System		State Automation Solution	220V 3kW/Circuit	1008ch				
			220V 5kW/ Circuit	48ch				
Ellipsoidal Reflector Spotlight	Catwalk 1	Selecon SPX 5°	220V/800W	16	24.5x24.5cm			
		Strand Leko Lite 10°		20	30.5x30.5cm			
	Catwalk 2	Selecon SPX 5°		16	24.5x24.5cm			
		Strand Leko Lite 10°		20	30.5x30.5cm			
	Catwalk 3	Selecon SPX 5°		8	24.5x24.5cm			
		Strand Leko Lite 10°		20	30.5x30.5cm			
	2F Lighting Box (SL/SR)	Selecon SPX 15°-35°	220V/800W	12/12	15.8x15.8cm			
	3F Lighting Box (SL/SR)	Selecon SPX 14°	220V/800W	12/12				
	Storage		Strand Leko Lite 10°	220V/800W	10	30.5x30.5cm		
			Selecon SPX 14°		15	15.8x15.8cm		
			Selecon SPX 19°		80			
			Selecon SPX 26°		70			
			Selecon SPX 36°		50			
			Selecon SPX 15°-35°		5			
ETC Source Four 50°	220V/750W	20	15.9x15.9cm					
Side Tower	Selecon SPX 26°+15°-35°	220V/800W	1+1	15.8x15.8cm	10 Sets			
2KW Fresnel Spotlight 8"	Storage	Selecon Arena Theatre 8" Fresnel 7°-60°	220V/2kW	80	24.5x24.5cm			
Parabolic Aluminized Reflector Spotlight		PAR 64-Kupo PL-64LB	220V/1kW	96	25.4x25.4cm	Lamp : W x16 · M x32 · N x32 · VN x16		
CYC Light		Selecon Aurora 4-Cell Linear CYC	220V/1kW	12	30.5x31.5cm			
Ground Row		Selecon Aurora 3-Cell Linear GroundRow		12				
Long Throw Follow Spot		Catwalk 3	Lycian M2 Model 2060 2.5	220V/2.5kW	3			
Strip Light	Storage	Selecon PL TR2 RGB 18 Striplights	110-220V/ 2.5A-1.3A 280W	12		If Strip manual needed, please contact TC Team.	*	
HMI Fresnel Spotlight 12"		ARRI D40 HMI Fresnel	220V/4kW	6		No Douser	*	
Fog Machine		Antari F-5D	220V/3.6A 810W	4			*	
Haze Machine		Antari HZ-500	220V/2A 500W	4			*	
Effect Fan		Antari AF-4	220V/0.48A 115W	8			*	

*Items with * mark are paid items. Please refer to the rate tables of National Kaohsiung Center for the Arts.*

2-2 Accessories

Item	Specifications	Size	Quantity
Barn Door	2kW Fresnel		40
Iris	For Selecon Ellipsoidal Reflector Spotlight		80
Gobo Holder	For Selecon Ellipsoidal Reflector Spotlight	B Size	100
	For ETC Source Four Ellipsoidal Reflector spotlight	A Size	20
Power Distribution Box	8CIR CEE Form Female Plug 		60
Multi-Cable	16pin Multi-Cable Harting Connector	5m	20
		10m	15
		15m	10
Ex-Cable	CEE16A	1.5m	60
		2m	55
		3m	80
		5m	70
		10m	50
		15m	50
20m	20		
Y-Cord	CEE16A Parallel Cord		90
Adapter Cable	CEE 16A(M) To Stage-Pin(F)		50
MA2 2 Port Node			8
Boom Base	Boom Base & Pipe	Boom Base : 45cm(W)x60cm(L) Pipe:300cm	12
Portable Side Light Tower		74cm(W)x74cm(L)x280cm(H)	16

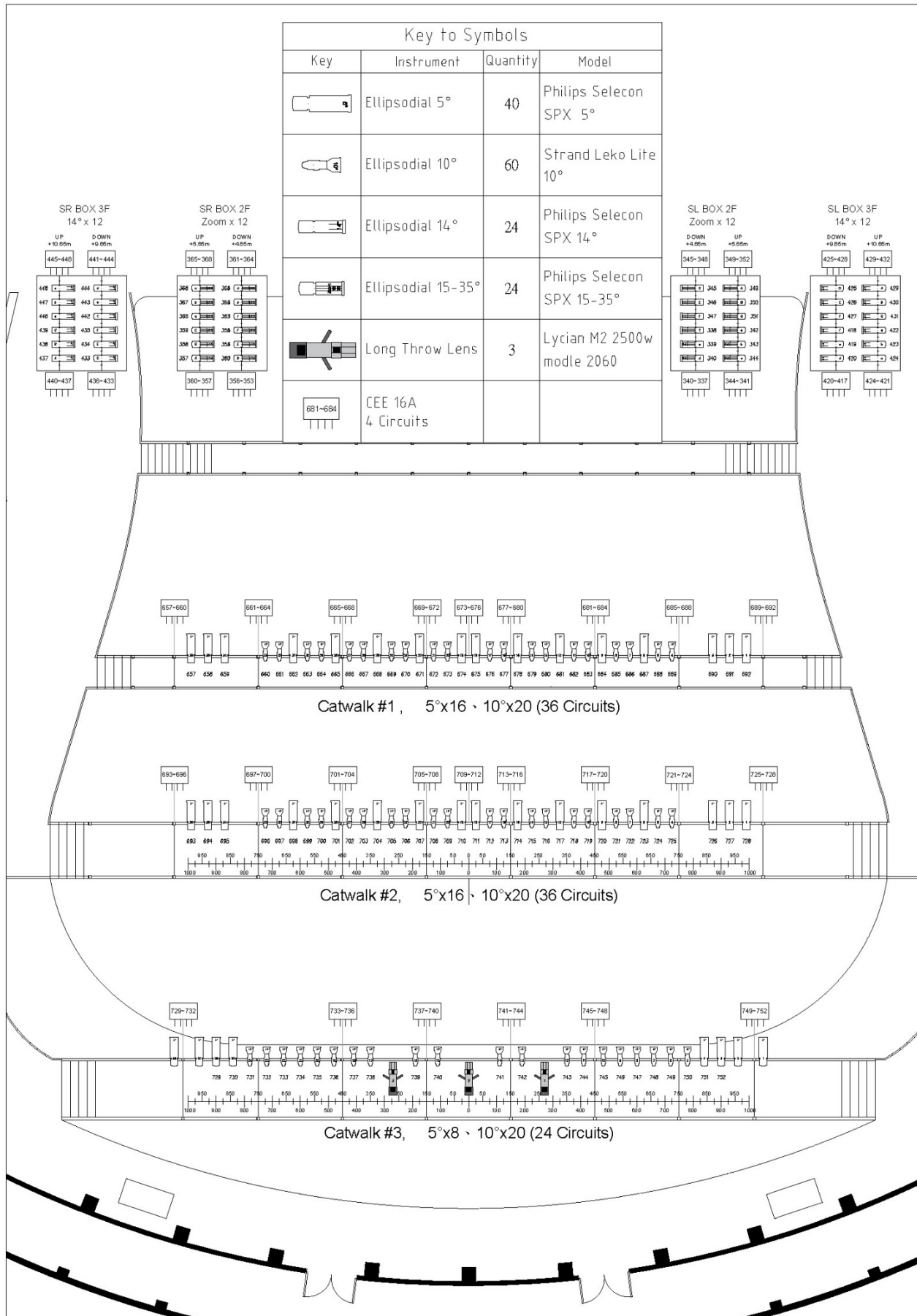


Figure 2.1-FOH Lighting Plot

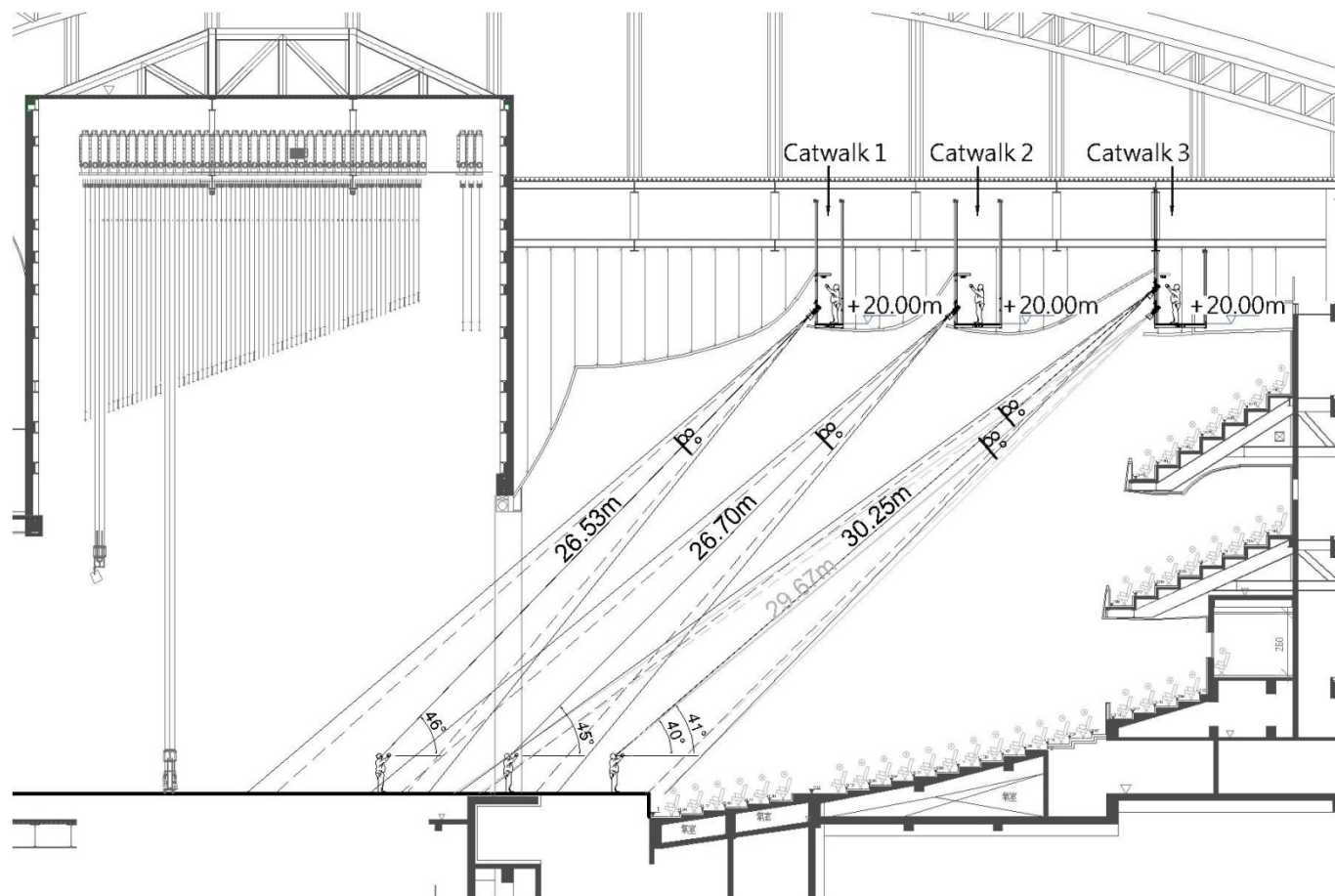


Figure 2.2- Lighting Section

2-3 Lighting Circuit

2-3-1 Stage area

Area and Position	Dimmer Circuit No.	Load	Network Circuit No.
Down Stage/L	017 ~ 024	3kW	LN09 ~ 14
	025 ~ 032		
Down Stage/R	033 ~ 040	3kW	LN15 ~ 20
	041 ~ 048		
Floor/L (Distance to CL 850cm)	049 ~ 056	3kW	LN21 ~ 22
	065 ~ 072		LN25 ~ 26
	081 ~ 088		LN29 ~ 30
	097 ~ 104		LN33 ~ 34
	113 ~ 120		LN37 ~ 38
Floor/R (Distance to CL 850cm)	057 ~ 064	3kW	LN23 ~ 24
	073 ~ 080		LN27 ~ 28
	089 ~ 096		LN31 ~ 32
	105 ~ 112		LN35 ~ 36
	121 ~ 128		LN39 ~ 40
Stage Lift 1	129 ~ 136	3kW	LN41 ~ 42
Stage Lift 2	137 ~ 144	3kW	LN43 ~ 44
Stage Lift 3	145 ~ 152	3kW	LN45 ~ 46
Stage Lift 4	153 ~ 160	3kW	LN47 ~ 48
Stage Lift 5	161 ~ 168	3kW	LN49 ~ 50
Rear Stage/L	169 ~ 176	3kW	LN51 ~ 52
	177 ~ 184		
	201 ~ 208		LN55 ~ 56
	209 ~ 216		
Rear Stage/R	185 ~ 192	3kW	LN53 ~ 54
	193 ~ 200		
	217 ~ 224		LN57 ~ 58
	225 ~ 232		
Above Rear Stage Cable Reel	233 ~ 240	3kW	LN61 ~ 62
	241 ~ 248		LN63 ~ 64
	249 ~ 256		LN65 ~ 66
	257 ~ 264		LN67 ~ 68
	265 ~ 272		LN69 ~ 70
	273 ~ 280		LN71 ~ 72
	281 ~ 288		LN73 ~ 74
	289 ~ 296		LN75 ~ 76
Adjustable Proscenium Stage/L	297 ~ 300	3kW	
	301 ~ 304		LN77 ~ 78
	305 ~ 308		
	309 ~ 312		
Adjustable Proscenium Stage/R	313 ~ 316	3kW	
	317 ~ 320		LN79 ~ 80
	321 ~ 324		
	325 ~ 328		
Rear Stage Backwall	329 ~ 332	3kW	
	333 ~ 336		
Up Lighting Bridge	369 ~ 372	3kW	
	373 ~ 376		
	377 ~ 380		
	381 ~ 384		
	385 ~ 388		LN101 ~ 104
Down Lighting Bridge	389 ~ 392	3kW	
	393 ~ 396		
	397 ~ 400		
	401 ~ 404		LN105 ~ 106
	405 ~ 408		
	409 ~ 412		LN107 ~ 108

	413 ~ 416		
3 Floor- Gallery S.L.	473 ~ 476	3kW	LN117 ~ 118
	477 ~ 480		
	481 ~ 484		
	485 ~ 488		
3 Floor- Gallery S.R.	489 ~ 492	3kW	LN119 ~ 120
	493 ~ 496		
	497 ~ 500		
	501 ~ 504		
3 Floor- Gallery Rear Stage	505 ~ 508	3kW	LN121 ~ 122
	509 ~ 512		
4 Floor- Gallery S.L.	513 ~ 516	3kW	LN127 ~ 128
	517 ~ 520		
4 Floor- Gallery S.R.	521 ~ 524	3kW	LN129 ~ 130
	525 ~ 528		
4 Floor- Gallery Rear Stage	529 ~ 532	3kW	LN131 ~ 132
	533 ~ 536		
Stage/L Ladder1	561 ~ 568	3kW	LN139 ~ 140
Stage/L Ladder2	569 ~ 576	3kW	LN141 ~ 142
Stage/L Ladder3	577 ~ 584	3kW	LN143~ 144
Stage/L Ladder4	585 ~ 592	3kW	LN145~ 146
Stage/L Ladder5	593 ~ 600	3kW	LN147~ 148
Stage/L Ladder6	601 ~ 608	3kW	LN149~ 150
Stage/R Ladder1	633 ~ 640	3kW	LN151~ 152
Stage/R Ladder2	641 ~ 648	3kW	LN153~ 154
Stage/R Ladder3	649 ~ 656	3kW	LN155~ 156
Stage/R Ladder4	609 ~ 616	3kW	LN157~ 158
Stage/R Ladder5	617 ~ 624	3kW	LN159~ 160
Stage/R Ladder6	625 ~ 632	3kW	LN161~ 162
Cyclorama	753 ~ 760	3kW	LN179~ 180
	761 ~ 768		
	769 ~ 776		
Stage Grid Area	777 ~ 784	3kW	LN181~ 182
	785 ~ 792		
	793 ~ 800		LN183~ 184
	801 ~ 808		
	809 ~ 816		LN185~ 186
	817 ~ 824		
	825 ~ 832		LN187~ 188
	833 ~ 840		
	841 ~ 848		LN189~ 190
	849 ~ 856		
	857 ~ 864		LN191~ 192
	865 ~ 872		
	873 ~ 880		LN193~ 194
	881 ~ 888		
	889 ~ 896		LN195~ 196
	897 ~ 904		
	905 ~ 912		LN197~ 198
	913 ~ 920		
	921 ~ 928		LN199~ 200
	929 ~ 936		
937 ~ 944	LN201~ 202		
945 ~ 952			
953 ~ 960	LN203~ 204		
961 ~ 968			
Auditorium Fly Bar1	969 ~ 976	3kW	LN205~ 206
Auditorium Fly Bar2	977 ~ 984	3kW	LN207~ 208
Auditorium Fly Bar3	985 ~ 992	3kW	LN209~ 210
Auditorium Fly Bar4	993 ~ 1000	3kW	LN211~ 212

Auditorium Fly Bar5	1001 ~ 1008	3kW	LN213~ 214
Down Stage/L	1011 ~ 1014	5kW	
Down Stage/R	1017 ~ 1020	5kW	
Rear Stage/L	1023 ~ 1026	5kW	
	1035 ~ 1038	5kW	
Rear Stage/R	1029 ~ 1032	5kW	
	1041 ~ 1044	5kW	
Rear Stage Backwall	1045 ~ 1050	5kW	LN59~ 60
Down Lighting Bridge	1051 ~ 1056	5kW	
3 Floor- Gallery S.L	1009 ~ 1010	5kW	
	1021 ~ 1022	5kW	
	1033 ~ 1034	5kW	
3 Floor- Gallery S.R	1015 ~ 1016	5kW	
	1027 ~ 1028	5kW	
	1039 ~ 1040	5kW	

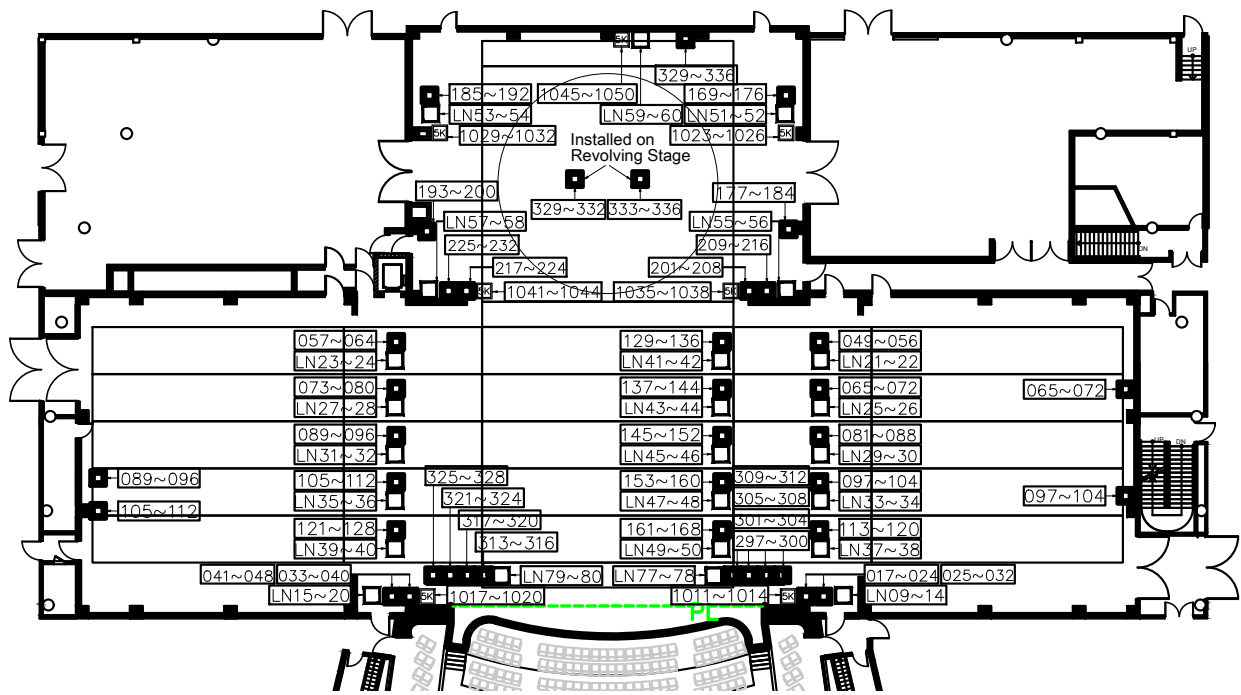
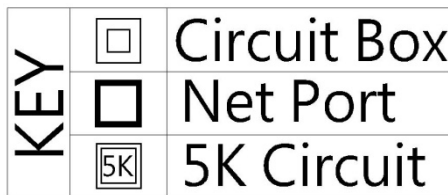


Figure 2.3.1.1- First Floor Lighting Circuit Layout

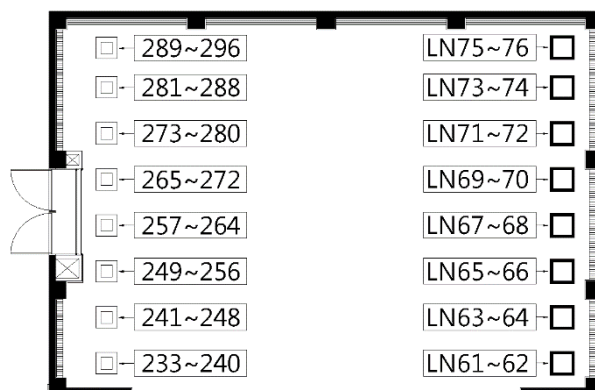


Figure 2.3.1.2- Above Rear Stage Cable Reel Lighting Circuit Layout

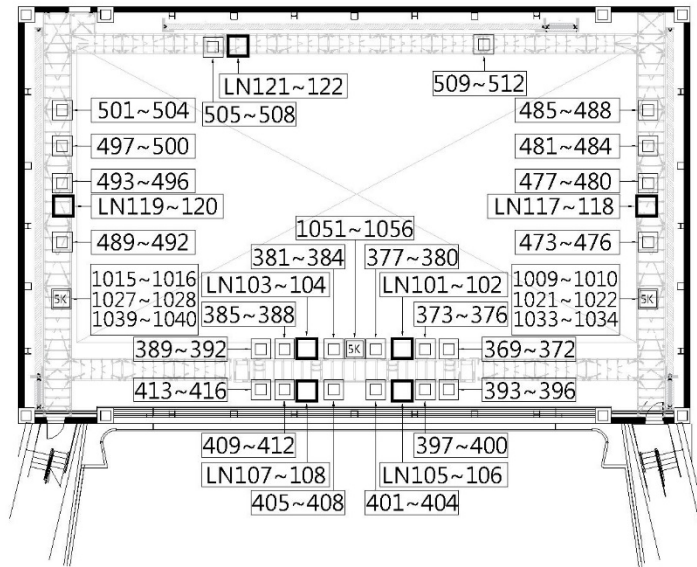


Figure 2.3.1.3- The Third Floor Gallery and Lighting Bridge Circuit Layout

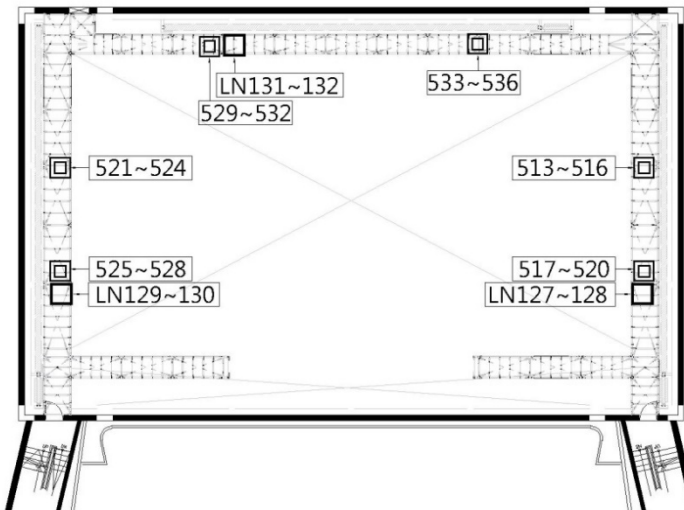


Figure 2.3.1.4- The Fourth Floor Gallery Lighting Circuit Layout

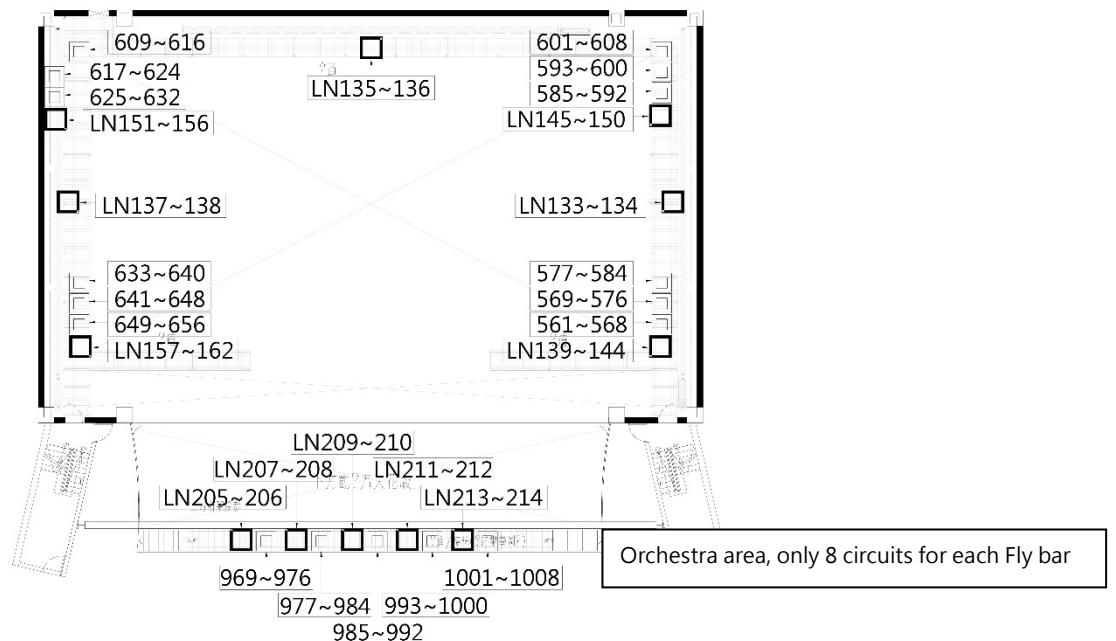


Figure 2.3.1.5-Orchestra Pit Overhead and R1F Gallery Lighting Circuit Layout

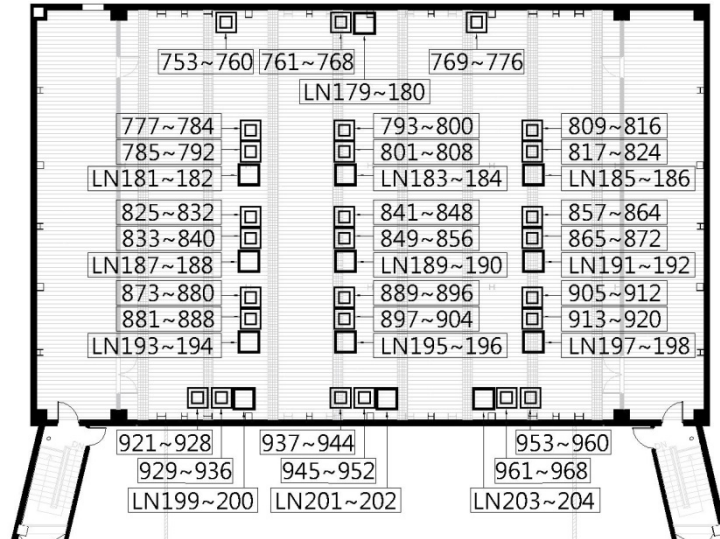


Figure 2.3.1.6- Grid Area Lighting Circuit Layout

2-3-2 Front of House

Area and Position	Dimmer Circuit No.	Load	Network Circuit No.
Orchestra Pit Lift 1	001 ~ 004	3kW	LN01 ~ 02
	005 ~ 008		LN03 ~ 04
Orchestra Pit Lift 2	009 ~ 012	3kW	LN05 ~ 06
	013 ~ 016		LN07 ~ 08
2 Floor-Lighting Box/L	337 ~ 340	3kW	LN85 ~ 86
	341 ~ 344		
	345 ~ 348		
	349 ~ 352		
2 Floor- Lighting Box/R	353 ~ 356	3kW	LN87 ~ 88
	357 ~ 360		
	361 ~ 364		
	365 ~ 368		
3 Floor- Lighting Box/L	417~ 420	3kW	LN109 ~ 110
	421~ 424		
	425~ 428		
	429 ~ 432		
3 Floor- Lighting Box/R	433 ~ 436	3kW	LN111 ~ 112
	437 ~ 440		
	441 ~ 444		
	445 ~ 448		
2 Floor-Balcony Rail	449 ~ 451	3kW	
	452 ~ 454		
	455 ~ 457		
	458 ~ 460		LN115 ~ 116
	461 ~ 463		
	464 ~ 466		
	467 ~ 469		
470 ~ 472	LN113 ~ 114		
3 Floor-Balcony Rail	537 ~ 539	3kW	
	540 ~ 542		
	543 ~ 545		
	546 ~ 548		LN125 ~ 126
	549 ~ 551		
	552 ~ 554		
	555 ~ 557		
558 ~ 560	LN123 ~ 124		

1st. Catwalk	657 ~ 660	3kW	LN163 ~ 164	
	661 ~ 664			
	665 ~ 668			
	669 ~ 672			
	673 ~ 676			
	677 ~ 680			
	681 ~ 684			LN165 ~ 166
	685 ~ 688			
	689 ~ 692			
2nd. Catwalk	693 ~ 696	3kW	LN167 ~ 168	
	697 ~ 700			
	701 ~ 704			
	705 ~ 708			
	709 ~ 712			
	713 ~ 716			
	717 ~ 720			LN169 ~ 170
	721 ~ 724			
	725 ~ 728			
3rd. Catwalk	729 ~ 732	3kW	LN171 ~ 172	
	733 ~ 736			
	737 ~ 740			
	741 ~ 744			
	745 ~ 748			LN173 ~ 174
	749 ~ 752			

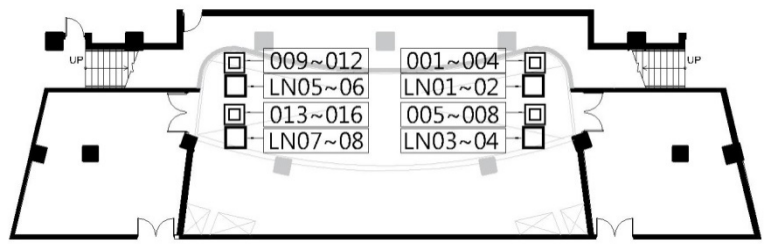


Figure 2.3.2.1- Orchestra Pit Lighting Circuit Layout

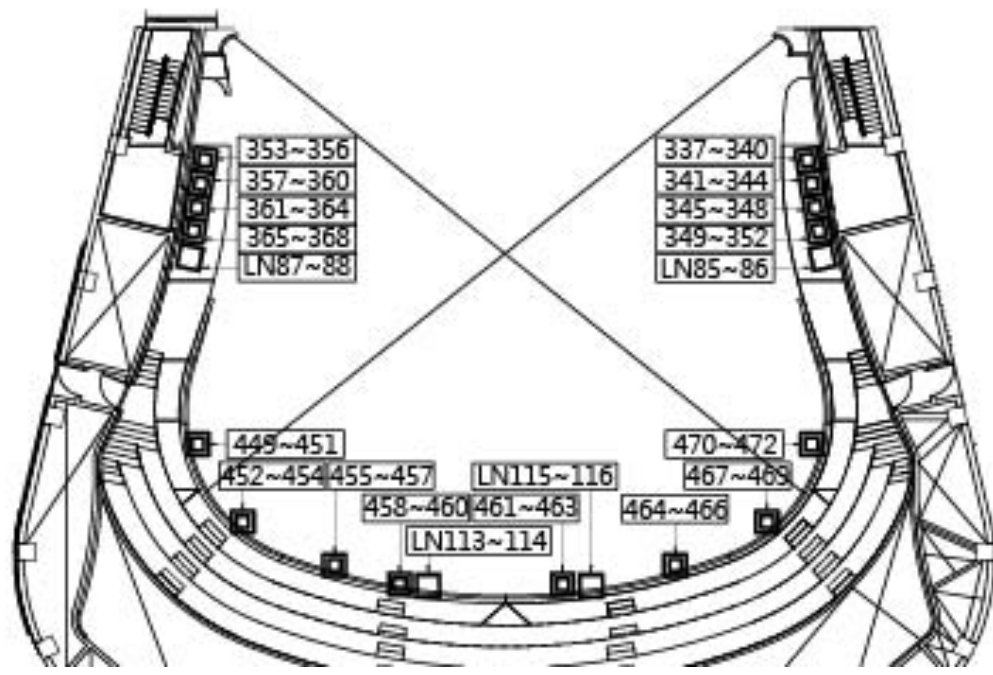


Figure 2.3.2.2- The Second Floor Apron and Lighting Box Lighting Circuit Layout

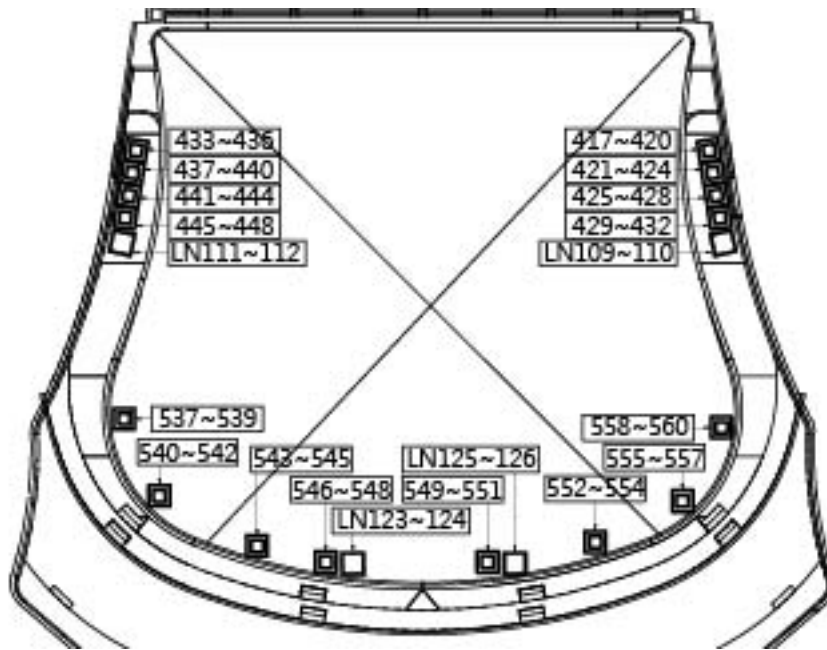


Figure 2.3.2.3- The Third Floor Apron and Lighting Box Lighting Circuit Layout

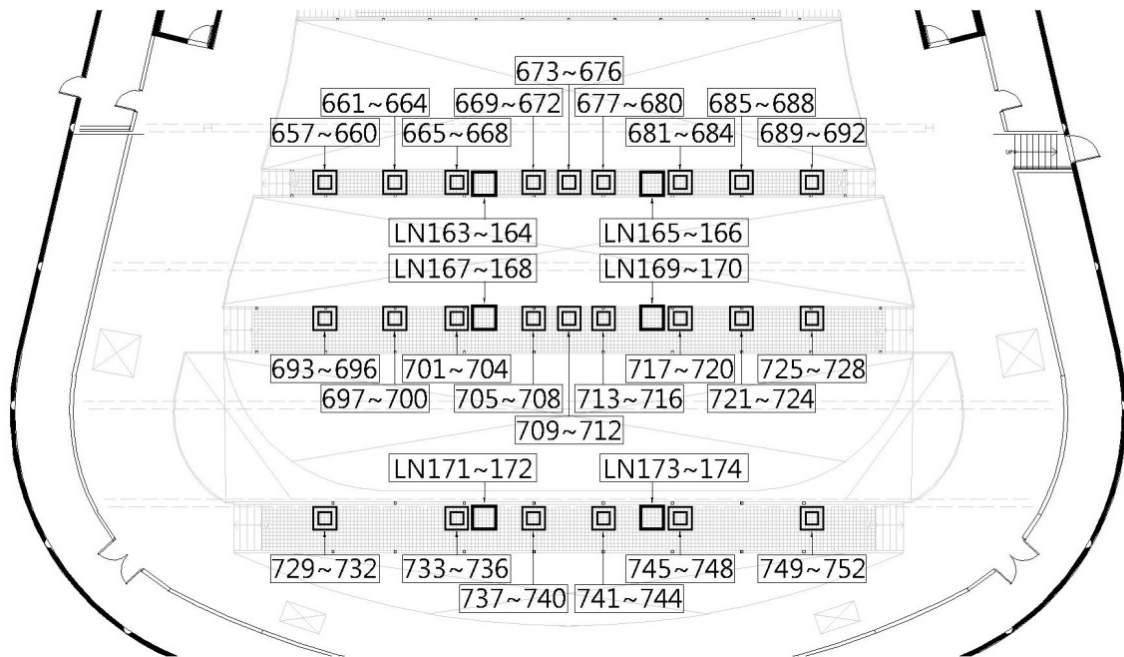


Figure 2.3.2.4- Catwalk Lighting Circuit Layout

2-4 Portable Lift

Brand and Model: Snorkel UL-40 (Battery Power Supply)
 Maximum height: 12.1m
 Maximum weight: 136kg
 Quantity: 2

2-5 Additional Power Supply

Function	Position	Specifications	Quantity
Stage	Down Stage Left / Right	3φ4W+G 380V/220V /60Hz (CEE 125A/3P+N+PE)	3 / 3
Light		3φ4W+G 208V/120V /60Hz (Camlock 250A)	3 / 3
Sound		3φ4W+G 208V/120V /60Hz (Camlock 100A)	1 / 1
Stage	Up Stage Left / Right / Rear Stage	3φ4W+G 380V/220V /60Hz (CEE 125A/3P+N+PE)	2 / 2 / 2
Light		3φ4W+G 208V/120V /60Hz (Camlock 250A)	2 / 2 / 2

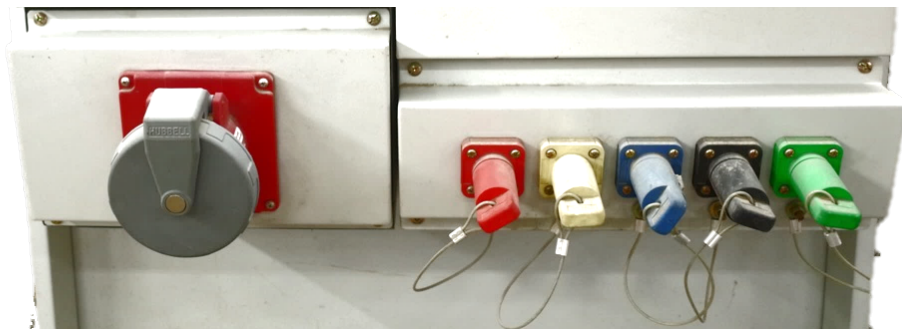


Figure 2.6 - Additional Power Supply

2-6 Working Light / Auditorium light / Blackout

Work lights

Work lights provided white and blue light mode, and the control switch is located on the stage manager' s Desk.
 Lighting area: Stage, Rear Stage lower floor, Stage Traps room, Main Stage Elevation Platform double-deck level (include machine pit), Orchestra Pit, Gallery, Lighting Box, Lighting Bridge, Stage Grid area, Cat walk and Auditorium control Elevation Platform machine pit.

Auditorium lights

Auditorium lights consists houselights and step lights, which can be separately controlled and dimmed. The control panel is located on the stage manager' s Desk and lighting control room.

Blackout

In accordance with government Fire Services Act, there are many of emergency lights in the venue. We cannot extinguish the emergency lighting for any performance, there will be the minimal lighting levels in the auditorium and backstage areas.

3 Audio/Video-Systems

3-1 Audio Facilities

Item	Quantity	Brand and Model	Paid Item
Array main speaker	2	Kling & Freitag SEQUENZA 10W*10 Kling & Freitag SEQUENZA 10B*2	
Left and right channel speakers	2	Kling & Freitag SEQUENZA 10W*3 Kling & Freitag SEQUENZA 10B*1	
Digital speaker	6	Renkus-Heinz ICONYX IC16/8Rll	
Movable speaker	2	Kling & Freitag CA1515-9	
Movable Subwoofer	2	Kling & Freitag SWi118E LabGruppen PLM10000Q	
Stage front speaker	12	Renkus-Heinz CFX 41	
Auxiliary speaker 1F	46	Soundtube CM600i	
Auxiliary speaker 2F	52	Soundtube CM600i	
12" Active Stage Monitor Speaker	2	Renkus-Heinz PN121/9	
15" Active Stage Monitor Speaker	2	Renkus-Heinz PN151/9	
12" Active Stage Monitor Speaker	12	Renkus-Heinz PN121M/12	*
6.5" Active Monitor Speaker	8	Renkus-Heinz PN61	*
Dual Channel Equalizer	6	BSS FCS960	*
Digital I/O fiber module	2	Studer D21M	
Stereo audio converter	1	Whirlwind PcUSB 2-Channel USB Direct Box	

Items with * mark are paid items. Please refer to the rate tables of National Kaohsiung Center for the Arts.

3-2 Control Room

Item	Quantity	Brand and Model	Paid Item
Master Digital Mixer (Control Room standard configuration)	1	Studer Vista 9 M2 QS	
Digital Mixer	1	Soundcraft Vi4	*
Digital I/O fiber module	1	Studer D21m	
CD Player	1	Tascam CD-500B	*
CD-R Play	1	Tascam CD-RW 901 MKII	*
Dual channel digital effects	3	Eventide Eclipse V4	
Multi-track recording equipment	1	JoeCo BBR1D+2.5" USB 1TB HD	*
Dual-track disk recorder	1	Tascam DA 3000	*
Active monitor speakers	2	Dynaudio BM12 MkIII	

Items with * mark are paid items. Please refer to the rate tables of National Kaohsiung Center for the Arts.

3-3 Stage Manager' s Console

The stage manager' s console is equipped with a near-field monitor speaker, stage video monitors, synchronous show screens with lighting and flying system controller, communication system and live announcements to individual space in backstage.

3-4 Machine Room

Item	Quantity	Brand and Model	Note
Digital Audio Management Platform	1	Studer D21M (Studer Score Live)	
Audio Control Manager Switch	1	HP 1410-8	
Digital I/O fiber module	1	Studer D21M	

3-5 Microphone

Item	Quantity	Brand and Model	Paid Item
Voice coil microphone	6	Audio Technica AE4100	*
Condenser microphone	4	Audio Technica AE5400	*
Voice coil microphone	12	Audio Technica ATM250	*
Cardioid condenser microphone	8	Audio Technica AT4021	*
Gradient Condenser Microphone	4	Audio Technica BP4073	*
Cardioid Condenser Boundary Microphone	4	Audio Technica U851R	*
Stage reception Microphone	2	DPA 4017B / DPA UA 0836 Holders	
Hypercardioid Condenser microphone	8	AKG CK63-ULS+C480B	*
Cardioid condenser microphone	8	AKG CK61-ULS+C480B	*
Wireless microphone	8	Sennheiser SKM500G3+MME865	*
Mini wireless microphone	16	Sennheiser SK500G3+MKE2	*
Single channel wireless microphone receiver	24	Sennheiser EW500G3	
wireless microphone wave antenna	2	Sennheiser AD3700	
Wave antenna distributor	3	Sennheiser ASA1	

Items with * mark are paid items. Please refer to the rate tables of National Kaohsiung Center for the Arts.

3-6 Communications

Item	Quantity	Brand and Model	Paid Item
Intercom host machine (Matrix 32 x 32)	1	Clear-Com Eclipse HX-Delta	
System interface	1	Clear-Com Helixnet HMS-4X	
Double circuit intercom	12	Clear-Com Helixnet HBP-2X	
Fixed intercom microphone/ speak	1	Clear-Com V12PDXY 110 / 340 Clear-Com V12PDDXY 110 / 340	
Single-ear headset	12	Clear-Com CC-300	
Double -ear headset	4	Clear-Com CC-400	
Telephone intercom	2	Clear-Com HS-6	
Digital Wireless Intercom set	12	1. Portable wireless sub-station / Clear-Com FS-BP 2. Single-ear headset / Clear-Com CC-300	*

Items with * mark are paid items. Please refer to the rate tables of National Kaohsiung Center for the Arts.

3-7 Locations of Communications

Each floor is paired with intercom system, 70 units in total.

No.	Floor	Location
1	B3F	Right rear lower stage (B301)
2		Left rear lower stage (B301)
3		Right front B3 side gallery (B302)
4		Left front B3 side gallery (B302)
5	B1F	Below Orchestra (right)
6		Below Orchestra (left)
7		Below Orchestra (middle)
8		Orchestra
9		Command Lounge (B1070)
10		Main stage right upper stage (side gallery B1082)
11		Main stage left upper stage (side gallery B1082)
12		B1F audio equipment room
13		Main Stage Lower Right Stage (side gallery B1082)
14		Main Stage Lower left Stage (side gallery B1082)
15	1F	Down stage right
16		Down stage left
17		Right side upstage right
18		Left side upstage left
19		Upstage right
20		Upstage left
21		Backstage upstage right
22		Backstage upstage left
23		Stage right Downstairs
24		Stage left Downstairs
25		Stage right proscenium
26		Stage left proscenium
27		Auditorium under loop box
28		Rest preparation room 01 (1137)
29		Rest preparation room 02 (1093)
30		Dressing Room 01 (1134)
31		Dressing Room 02 (1132)
32		Dressing Room 03 (1130)
33		Dressing Room 04 (1128)
34		Dressing Room 05 (1126)
35		Dressing Room 06 (1124)
36		Dressing Room 07 (1112)
37		Dressing Room 08 (1114)
38		Dressing Room 09 (1116)
39		Dressing Room 10 (1118)
40		Dressing Room 11 (1120)
41		Dressing Room 12 (1122)
42		Loading Dock 01 (1010)
43		Control Room -under the table (2043)
44		2F
45	Lighting box (2042)	
46	Lighting box (2042A)	
47	Audience area (control table elevating platform)	
48	Event Light Bridge	
49	3F	Event Light Bridge
50		Left working gallery
51		Right working gallery
52		Upper working gallery
53	Stage Area Right Working Corridor 4th Floor	
54	4F	Stage Area left Working Corridor 4th Floor
55		Repair catwalk

56	R1F	Catwalk 1st	
57		Catwalk 1st	
58		Catwalk 1st	
59		Catwalk 2st	
60		Catwalk 2st	
61		Catwalk 2st	
62		Catwalk 3st	
63		Catwalk 3st	
64		Catwalk 3st	
65		Amplifier room	
66		Dimmer room	
67		R2F	Winch room
68			Winch room
69			Grid
70			Grid

3-8 Stage Cameras and Video Surveillance Systems

Stage monitors are installed in right and left stage entrances, first, second, and third floor lobbies, master and secondary control rooms, dressing rooms and green rooms.

Item	Quantity	Brand and Model	Paid Item
Camera (2/3 inch 3CCD)	1	Panasonic AW-HE870 Panasonic LZ20M85G	
Remote control	1	Panasonic AW-RP50	
Switcher	1	Panasonic AW-RP120	
Camera	2	Panasonic AW-HE60SN	
Infrared camera	1	AIDA GEN3G-200	
Video recording	Show	Fixed camera for stage panoramic view recording, only suitable for archived copy.	

Items with * mark are paid items. Please refer to the rate tables of National Kaohsiung Center for the Arts.

3-9 Paging Systems

Backstage Paging Systems

There are four venues individually Backstage Paging Systems in National Kaohsiung Center for the Arts. For Opera House paging available to all dressing rooms, green rooms, Company office and passage, it can also available paging to separately 13 zones. The Paging and Program position is located on the stage manager' s console.

Zone 1 : 1162 Company office -01 、 1166 Company office -02

Zone 2 : Corridor (1136 、 1169 、 1164)

Zone 3 : Corridor (B1079 、 B1085 、 B1101)

Zone 4 : B1089 Dressing Room -18 、 B1092 Dressing Room -19 、 B1094 Dressing Room -20 、 B1098 Dressing Room -21

Zone 5 : B1065 Dressing Room -14 、 B1068 Dressing Room -15 、 B1070 Dressing Room -16 、 B1074 Dressing Room -17

Zone 6 : 1094 Quick Change Booth

Zone 7 : 1112 Dressing Room -02 、 1114 Dressing Room -03 、 1116 Dressing Room -04 、 1118 Dressing Room -05

1120 Dressing Room -06 、 1122 Dressing Room -07 、 1137 Waiting Area

Zone C : Corridor (B1063 、 B1015 、 B1013) 、 B1011 Air Lock 、 B1010 Parking Lot Foyer

Zone D : Corridor (1053 、 1100) 、 1062 Dressing Room -01 、 1093 Waiting Area

Zone E : Public Toilet (1138 、 1139) 、 Corridor (1225 、 1109)

Zone X : 1124 Dressing Room -08 、 1126 Dressing Room -09

Zone Y : 1128 Dressing Room -10 、 1130 Dressing Room -11

Zone Z : 1132 Dressing Room -12 、 1134 Dressing Room -13

3-10 Projector

Name of Item	Quantity	Brand and Model	Paid Item
20000 Ansi Projector	2	Digital Projection Titan Super Quad 1080p	*
Wide-angle lens(Prime)	2	0.67:1 fixed HB Lens	
Normal lens(Zoom)	2	1.87-2.56:1 zoom HB Lens	
Telephoto lens(Zoom)	2	2.56-4.16:1 zoom HB Lens	

Items with * mark are paid items. Please refer to the rate tables of National Kaohsiung Center for the Arts.

3-11 Projector connections

Video & Computer			Communication & Control		
Type	Connector	Quantity	Type	Connector	Quantity
Qty DVI-D / DVI-A	DVI-I	1	3D Sync Out	BNC	1
HDMI 1.3	HDMI	1	3D Sync In	BNC	1
3G-SDI	BNC	1	LAN	RJ45	1
VGA/ Analog RGB	15-pin D-Sub	1	RS232	9-pin D Sub	1
Component Video	4 x BNC	1	Wired Remote In	3.5mm Stereo Jack	1
S-Video	4-pin Mini DIN	1	Wired Remote Out	3.5mm Stereo Jack	1
Composite Video	RCA	1	Update Port	RJ45	1
Composite Video	BNC	1	Service Port	USB Type B	1

3-12 Subtitle

Name of Item	Quantity	Brand and Model	Paid Item
LED Subtitle display screen	1 / 12 pieces in total	1. 12 Panasonic(TH-55LFV70W) 、 2 Laptop 、 1 Switcher 2. Include installation 3. After second performance will discount 50% 4. Shared with Playhouse	*

Items with * mark are paid items. Please refer to the rate tables of National Kaohsiung Center for the Arts.

4 Backstage

4-1 Dressing Room and Company office

No.	Floor	Room No.	Name	Capacity	Notes
1	1	1062	Dressing room 01	7	Includes mirror, table and chair, toilet and shower.
2		1112	Dressing room 02	3	Includes mirror, table, sofa and chairs, toilet and shower
3		1114	Dressing room 03	3	Includes mirror, table, sofa and chairs, toilet and shower
4		1116	Dressing room 04	3	Includes mirror, table, sofa and chairs, toilet and shower
5		1118	Dressing room 05	3	Includes mirror, table, sofa and chairs, toilet and shower
6		1120	Dressing room 06	3	Includes mirror, table, sofa and chairs, toilet and shower
7		1122	Dressing room 07	3	Includes mirror, table, sofa and chairs, toilet and shower
8		1124	Dressing room 08	3	Includes mirror, table, sofa and chairs, toilet and shower
9		1126	Dressing room 09	3	Includes mirror, table, sofa and chairs, toilet and shower
10		1128	Dressing room 10	3	Includes mirror, table, sofa and chairs, toilet and shower
11		1130	Dressing room 11	3	Includes mirror, table, sofa and chairs, toilet and shower
12		1132	Dressing room 12	3	Includes mirror, table, sofa and chairs, toilet and shower
13		1134	Dressing room 13	3	Includes mirror, table, sofa and chairs, toilet and shower
14		1162	Company office 01	15	Includes table and chairs.
15	1166	Company office 02	15	Includes table and chairs.	
16	B1	B1065	Dressing room 14	16	Includes mirror, table and chairs, toilet and shower
17		B1068	Dressing room 15	8	Includes mirror, table and chairs, toilet and shower
18		B1070	Dressing room16	3	Includes mirror, table and chairs, toilet and shower
19		B1074	Dressing room 17	32	Includes mirror, table and chairs, toilet and shower
20		B1089	Dressing room 18	28	Includes mirror, table and chairs, toilet and shower
21		B1092	Dressing room 19	12	Includes mirror, table and chairs, toilet and shower
22		B1094	Dressing room 20	30	Includes mirror, table and chairs, toilet and shower
23		B1098	Dressing room 21	21	Includes mirror, table and chairs, toilet and shower

4-2 Orchestra Facilities

No.	Item	Quantity	Notes
1	Chair	100	*
2	Ensemble stool	12	*
3	Conductor' s chair	1	
4	Music stand	90	*
5	Music stand light	110	*
6	Conductor' s podium(single layer)	1	*
			White light, two brightness mode WENGER L 120cm x W 115cm xH 25cm
7	Conductor' s stand	1	*
8	Percussion table stand	4	*
9	Endpin stopper	10	*
10	Acoustic shield	5	*
11	Music stand Tray	10	*
12	Solo Musician' s PODIUM 130*60*16(cm)	2	*
	Solo Musician' s PODIUM 100*60*16(cm)	10	*
	Solo Musician' s PODIUM 130*60*30(cm)	2	*
	Solo Musician' s PODIUM 100*60*30(cm)	8	*

Items with * mark are shared with Playhouse

4-3 Pianos (shared between four theatres)

No.	Item	Brand	Model Number	Quantity	Paid Item
1	Model-D Concert grand	Steinway & Sons	D-274	3	*
2	Concert grand	FAZIOLI	F308	1	*
3	Grand Piano	YAMAHA	C7XPE	1	*
4	Grand Piano	KAWAI	SK-6L	1	*
5	Celesta	Schiendmayer	5 ½ Octave Studio model	1	*
6	Harpsichord	J.C.NEUPERT	Hemsch	1	*
7	Upright Piano	YAMAHA	U3	1	*

*Items with * mark are paid items. Please refer to the rate tables of National Kaohsiung Center for the Arts.*

Important :

Pianos shared with four venues, booking in advance is required.

WeiWuYing's contract-signed piano technician must tune all pianos before performance. (Piano hire fees do not include tuning costs)

While WWY' s piano is in part of the performance, the Fog and Haze Machine can' t be used.

4-4 Loading Dock / Scenery Shipping Path / Loading Flow

4-4-1 West Dock

Opera House and Playhouse use the West Dock for loading and unloading. The dock is equipped with three hydraulic dock leveler that can be adjusted according to the required height.

Dock Dimension

Big loading dock: 7.25m (width) x 4.3m (height)

Small loading dock: 3.5m (width) x 4.3m (height)

Loading clearance: 4.3m height from floor to top (Truck height limit 4.2m)

3.8m height from dock to grid area

Stage entrance and exit: minimum 4m (width) x 3.4m (height)

Height from dock to floor: 0.98m

※Notes for Container Transport:

Due to the limitation of the slope at the entry of the loading dock, the minimum height of the trailer's low bed should be higher than 100cm. Also, if the company hires a 40' high-cube container, the bed rack should be within the height of 135~140cm to accommodate the height of loading gate.

4-4-2 West Dock Handling equipment

2.5mt Electric Forklift x1

1.5mt Stand-Up Automatic Electric Forklift x1

3mt Manual Hydraulic Pallet Jack x2

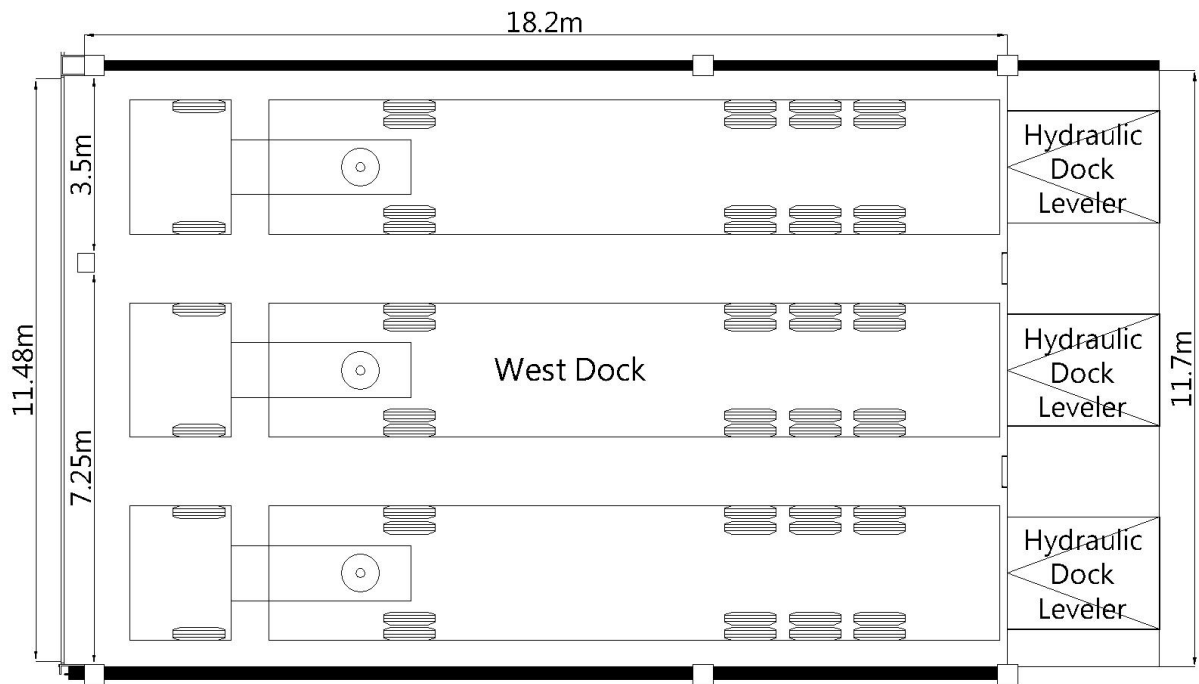


Figure 4.1 - West Loading Dock Plan

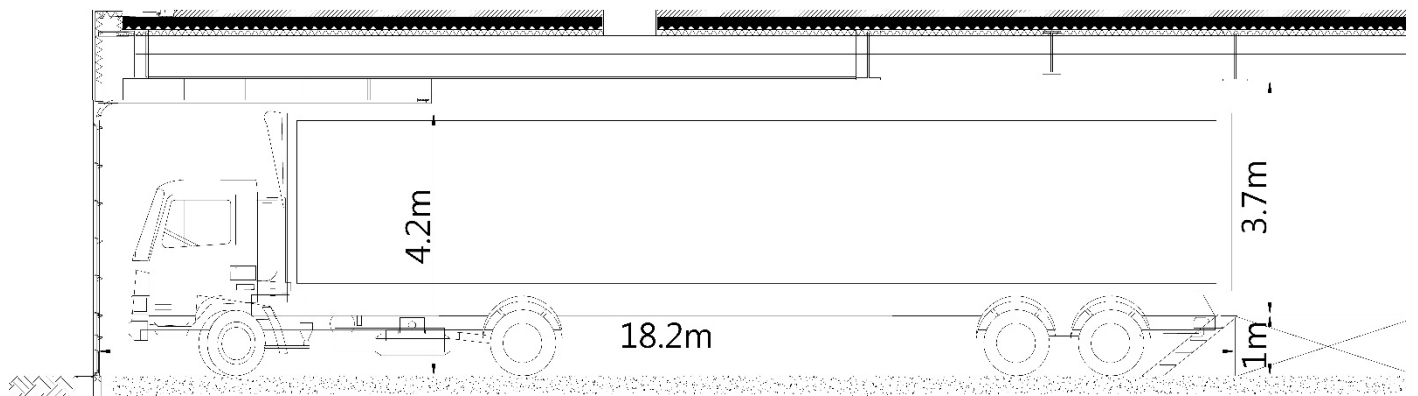


Figure 4.2 - West Loading Dock Section

4-4-3 Scenery Shipping Path / Loading Flow

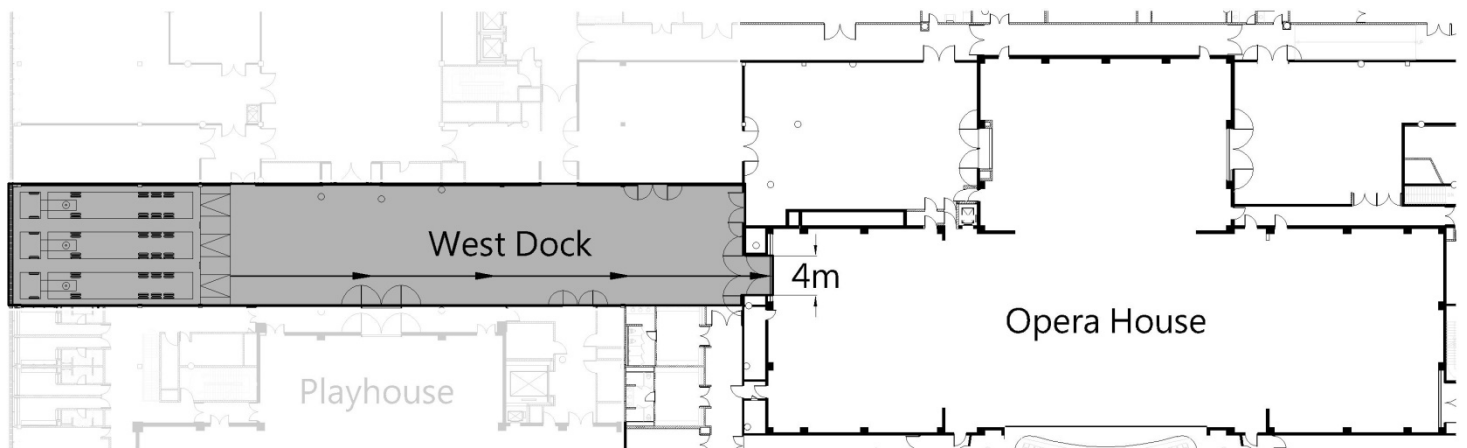


Figure 4.3- Loading Flow

4-4-4 Hydraulic Dock Leveler

Capacity: 22.6mt

Area: 198cm (width) x 221.9cm (length)

Elevation: +/- 30.5cm

Quantity: 3

4-5 Other Facilities

4-5-1 Rehearsal Rooms

Opera House provide a dedicated rehearsal studio connecting with rear stage. There are also 12 different function and accommodated rehearsal studios, these available for hire between four major theatres .Requests should be discussed well in advance to determine availability. The hire fees please refer to the rate tables of National Kaohsiung Center for the Arts.

Room No.	Name	Dimension (Length x Width x Height / m)	Notes
1171	Rehearsal Studio-01 (Opera House rehearsal room)	16.4x12.3x10.4	1. Grand Piano ∙ Wooden floor covered black color dance floor ∙ Wall mount glassless mirrors x 1 side 2. Capacity : 110
		Subsidiary space 6.9x5.3x3	
1182	Rehearsal Studio-02	11.4x10.8x3.8	1. Wooden floor covered gray color dance floor ∙ Sound absorption wall x 2 side ∙ Wall mount glassless mirrors x 2 side 2. Capacity : 50
1184	Rehearsal Studio-03	11.1x10.8x4	1. Grand Piano ∙ Wooden floor covered gray color dance floor ∙ Sound absorption wall x 2 side ∙ Wall mount glassless mirrors x 2 side 2. Capacity : 50
1186	Rehearsal Studio-04	17.5x12.1x3.9	1. Grand Piano ∙ Wooden floor ,black color dance floor ∙ Wall mount glassless mirrors x 2 side ∙ Fixed Ballet barre on the single sided wall mirror x 2 2. Capacity : 110
		Subsidiary space 6.6x8.8 ×3	Rehearsal Studio-04 use only Green Room-01(With dressing room)
1192	Rehearsal Studio-05	19.3x12.2x3.9	1. Grand Piano ∙ Wooden floor , black color dance floor ∙ Wall mount glassless mirrors x 2 side ∙ Fixed Ballet barre on the single sided wall mirror x 2 2. Capacity : 110
		Subsidiary space 6.6x8.8 ×3	Rehearsal Studio-05 use only Green Room-02(With dressing room)
B1111	Rehearsal Studio-06	8x7.4x2.3	1. Upright piano ,Chair , Music stand ∙ Wooden floor ∙ Sound absorption wall 2. Capacity : 25
B1112	Rehearsal Studio-07	5.2x4.4x2.3	1. Chair , Music stand ∙ Wooden floor ∙ Sound absorption wall 2. Capacity : 10
B1113	Rehearsal Studio-08	7.2x5x2.7	1. Chair , Music stand ∙ Wooden floor ∙ Sound absorption wall 2. Capacity : 15
B1114	Rehearsal Studio-09	5.2x3.7x2.7	1. Chair , Music stand ∙ Wooden floor ∙ Sound absorption wall 2. Capacity : 10
B1115	Rehearsal Studio-10	5.2x4.1x2.7	1. Chair , Music stand ∙ Wooden floor ∙ Sound absorption wall 2. Capacity : 10
B1116	Rehearsal Studio-11	5.2 x 4.1 x 2.7	1. Chair , Music stand ∙ Wooden floor ∙ Sound absorption wall 2. Capacity : 10
B304	Chorus Rehearsal Room	15.9x9.9x8.8	1. Grand Piano ,Chair , Ensemble stool ∙ Wooden floor ∙ Sound absorption curtain 2. Capacity : 80
B313	Orchestra Studio	18.7x14.3x7.8	1. fixed auditorium< 84seats> ∙ Grand Piano ,Chair , Ensemble stool ∙ Wooden floor ∙ Sound absorption curtain 2. Capacity : 200

4-5-2 Carpentry Shop / Costume Shop / Laundry Room

National Kaohsiung Center for the Arts is equipped with basic production facilities, include Carpentry Shop, Costume Shop, and laundry rooms. The hire fees please refer to the rate tables of National Kaohsiung Center for the Arts.

Room No.	Name	Dimension (Length x Width x Height / m)	Notes
1002	Carpentry Shop	11.9x19.7x3	Basic wood crafts and electrical tools
1165	Costume Shop-01	5.9x10.2x3	Basic facilities for the maintenance of costume; Sewing machine, overlock machine and steam / iron equipment
1181	Costume Shop-02	5.8x11.8x3	
1163	Laundry Room-01	5.8x4.9x3	Washing machine, tumble dryers, sink and clothes folding table
B1019	Laundry Room-02	6x8.2x3	