



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

CONCERT HALL

Technical Information

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Last updated:2025/9/28

1 General Information

1-1 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 2,236 seat Opera House, the 1981 seat Concert Hall, the 1210 seat Play House and the 434 seat Recital Hall.

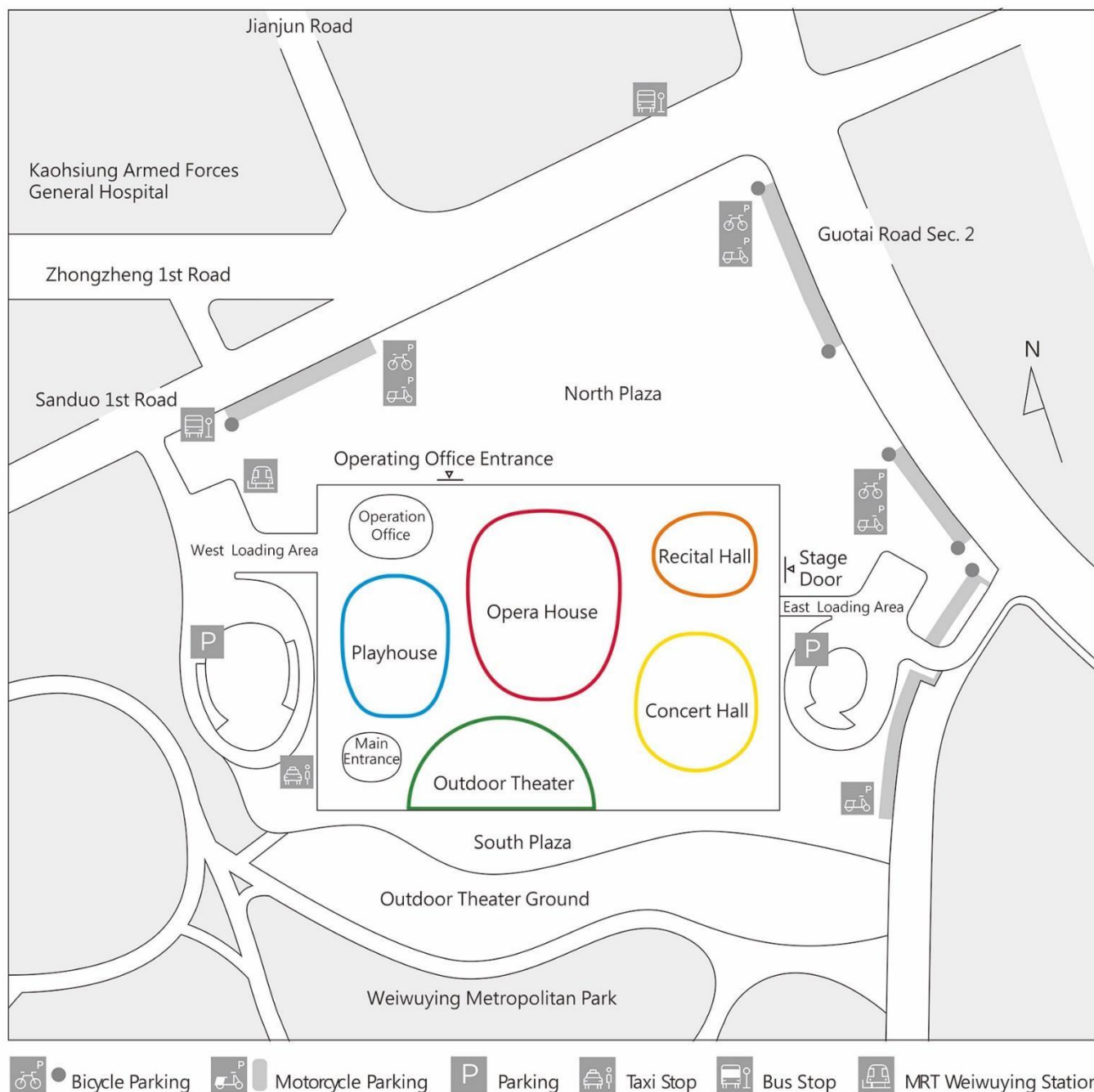


1-2 Concert Hall

The Concert Hall features a unique vineyard style. The unique design allows audience at various heights to enjoy the same optimal acoustic and visual effects, taking care of each and every member in the audience. The seating arrangement encircles the stage, bringing the audience closer to the stage for more intimate experiences with conductors and performers.



1-3 Traffic Information



1-4 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

1-5 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.

1-6 Auditorium / Seating

2025/01/25

Seating Capacity : 1981seats

■ House Seats : 1662 sats (1F/253 seats 、 2F/858 seats 、 3F/551 seats)

■ Wheelchairs Seats : 14 seats

■ Companion Seats : 14 seats

■ Choir Seats : 185 seats(include Wheelchairs 6 seats 、 Companion 6 seats)

■ Control Area Seats : 27seats

■ Reserved Seats for FOH : 8 seats

■ Obstructed View Seats : 71 seats(Non-ticketing)

■ Partial View

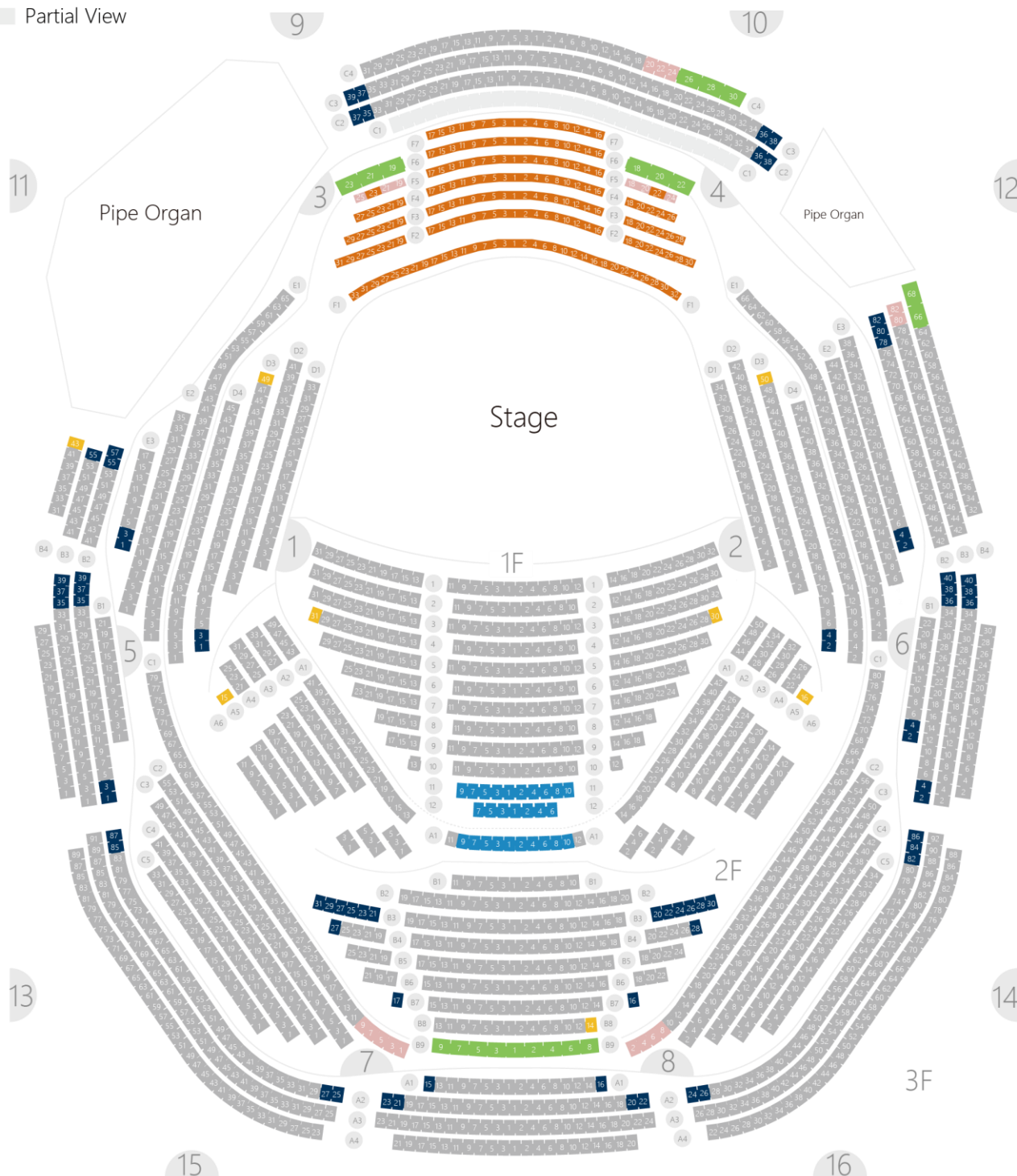


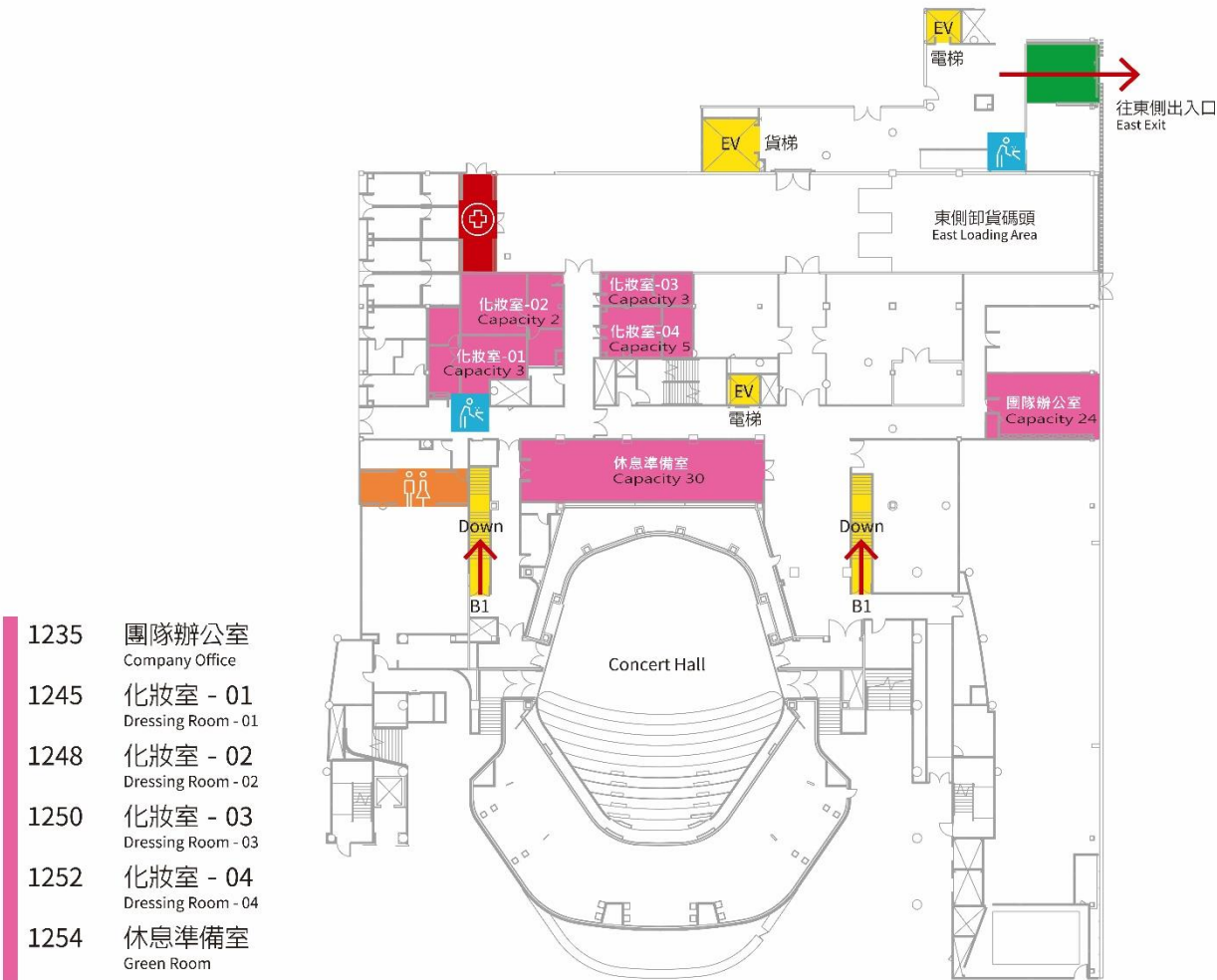
Figure 1.1- Concert Hall Seating plan

Set Up Equipment Recommended Seat

Set Up Equipment Seat	Reserved Seat	Notes
1st Floor 12 Row Seat 1	1st Floor 11 Row Seat 1、2、3 1st Floor 12 Row Seat 2、3 2nd Floor A1 Row Seat 1、2、3	For Photo Shooting & Video Shooting
2nd Floor B8 Row Seat 2	2nd Floor B7 Row Seat 1、2、4 2nd Floor B8 Row Seat 1、4	For Video Shooting
2nd Floor A1 Row Seat 49	2nd Floor A1 Row Seat 47 2nd Floor A2 Row Seat 31、33	For Photo Shooting & Video Shooting
2nd Floor A1 Row Seat 50	2nd Floor A1 Row Seat 48 2nd Floor A2 Row Seat 32、34	For Photo Shooting & Video Shooting
2nd Floor F1 Row Seat 1	2nd Floor F1 Row Seat 2、3 2nd Floor F2 Row Seat 1、3、5	For Video Shooting * Videocassette recorders during non-ticketed hours for chorus only.
2nd Floor F1 Row Seat 32	2nd Floor F1 Row Seat 30 2nd Floor F2 Row Seat 28、30	For Photo Shooting & Video Shooting
2nd Floor F1 Row Seat 33	2nd Floor F1 Row Seat 31 2nd Floor F2 Row Seat 29、31	For Photo Shooting & Video Shooting
Set Up Control Area Seat	Reserved Seat	Notes
1st Floor 11 Row Seat 1~10 1st Floor 12 Row Seat 1~7	2nd Floor A1 Row Seat 1~10	
2nd Floor B7 Row Seat 1、3、5、2、4、6 2nd Floor B8 Row Seat 1、3、5、2、4、6	2nd Floor B7 Row Seat 7、8 2nd Floor B8 Row Seat 7、8	The height of the device should be such that it does not block the rear wheelchair seat.
2nd Floor D2 Row Seat 38、40、42	2nd Floor D1 Row Seat 32、34 2nd Floor D2 Row Seat 24、26、28、30、32、34、36	Laser Projector/ Downlight type Captioner Operator Location.

1-7 Concert Hall Plan

音樂廳一樓化妝室位置圖
Concert Hall 1F Dressing Room Map



出入口
Entrance

飲水機
Water Dispenser

醫護室
Infirmary

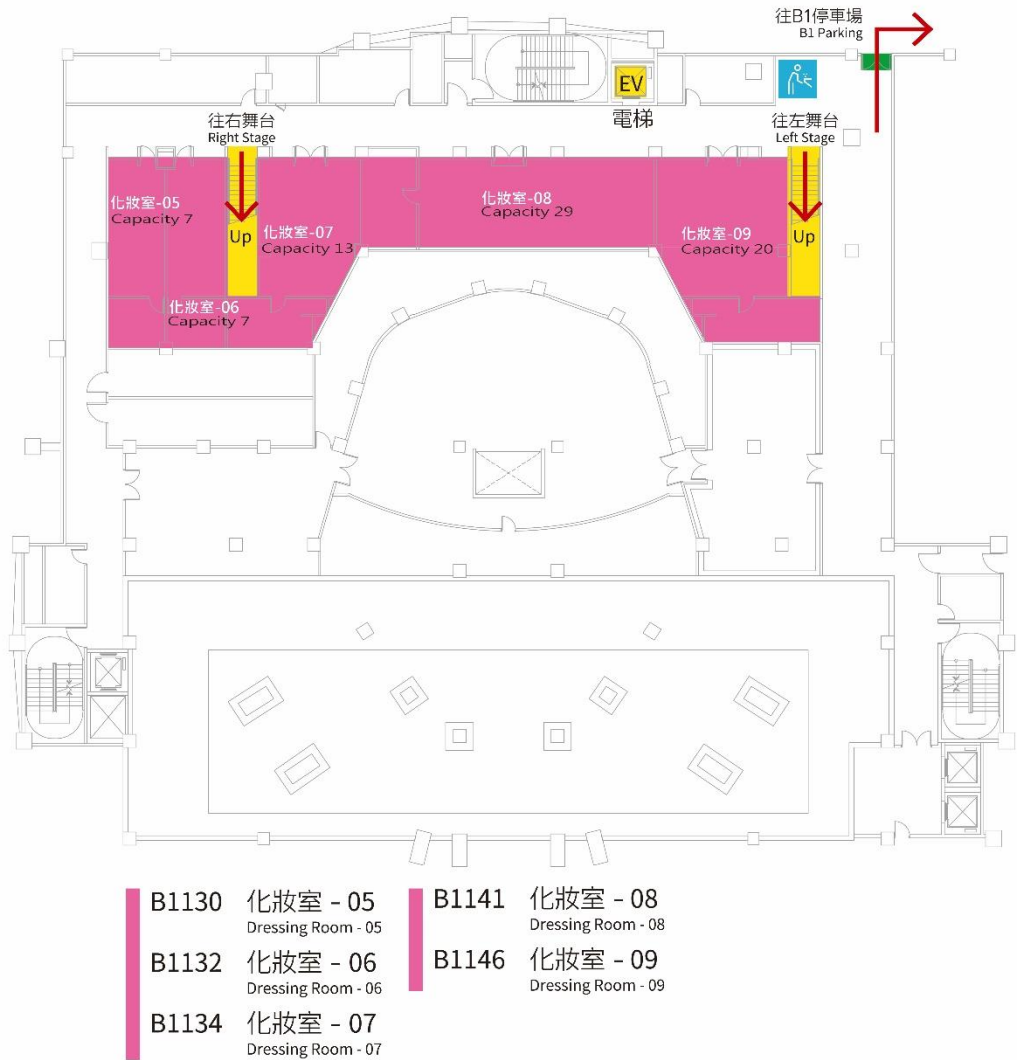
洗手間
Restroom

樓梯 / 電梯
Stairs / Elevator

Figure 1.3- Concert Hall 1F plan

音樂廳地下一樓化妝室位置圖

Concert Hall B1F Dressing Room Map



- 出入口
Entrance
- 飲水機
Water Dispenser
- 醫護室
Infirmary
- 洗手間
Restroom
- 樓梯 / 電梯
Stairs / Elevator

Figure 1.4- Concert Hall B1F plan

1-8 Concert Hall Section

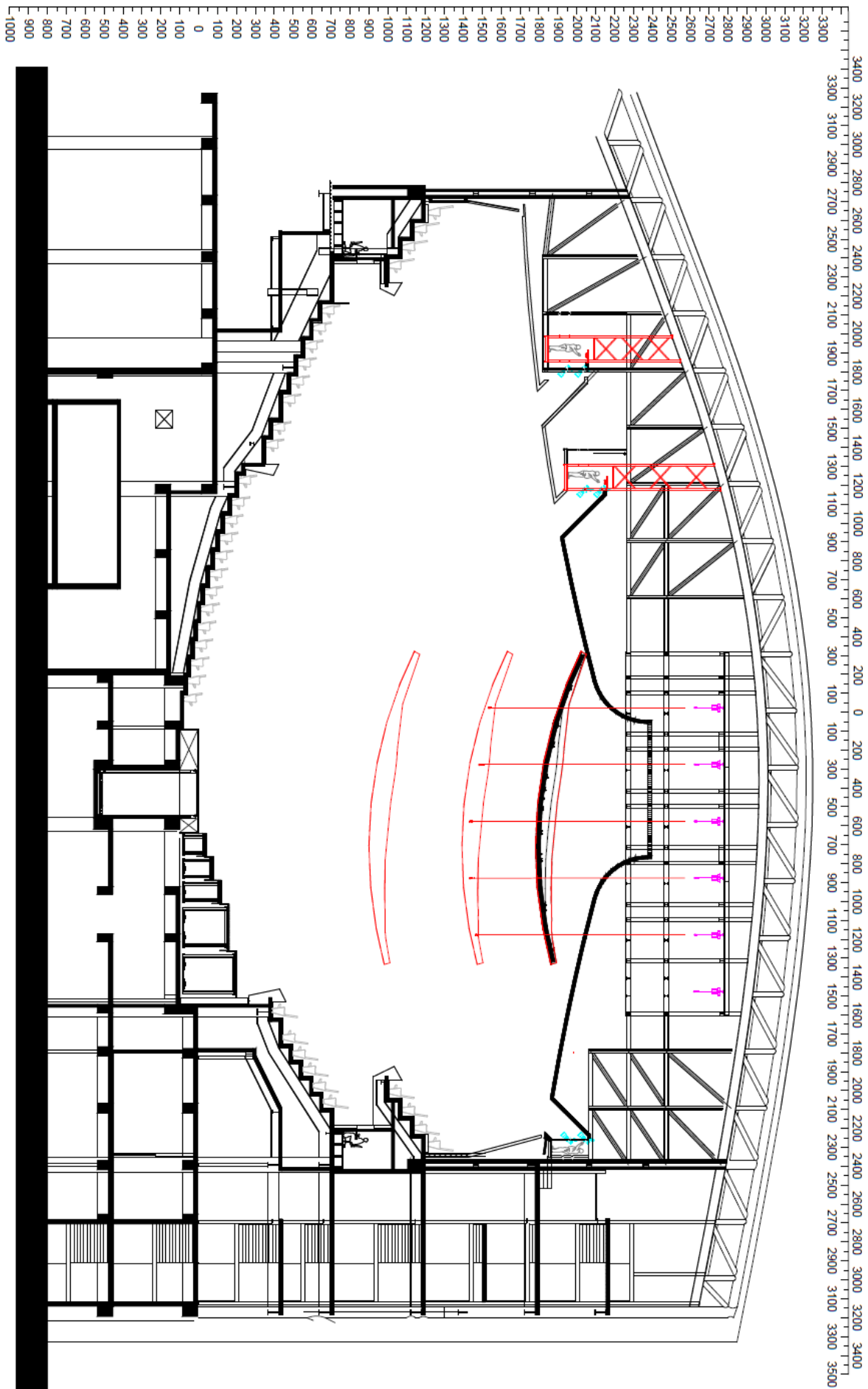


Figure 1.5- Concert Hall Section

2 Stage

2-1 Stage

20.8m (Width) x 13.6m (depth) x 0.8m (height from auditorium floor to stage level)
The stage area is 223.9 m²

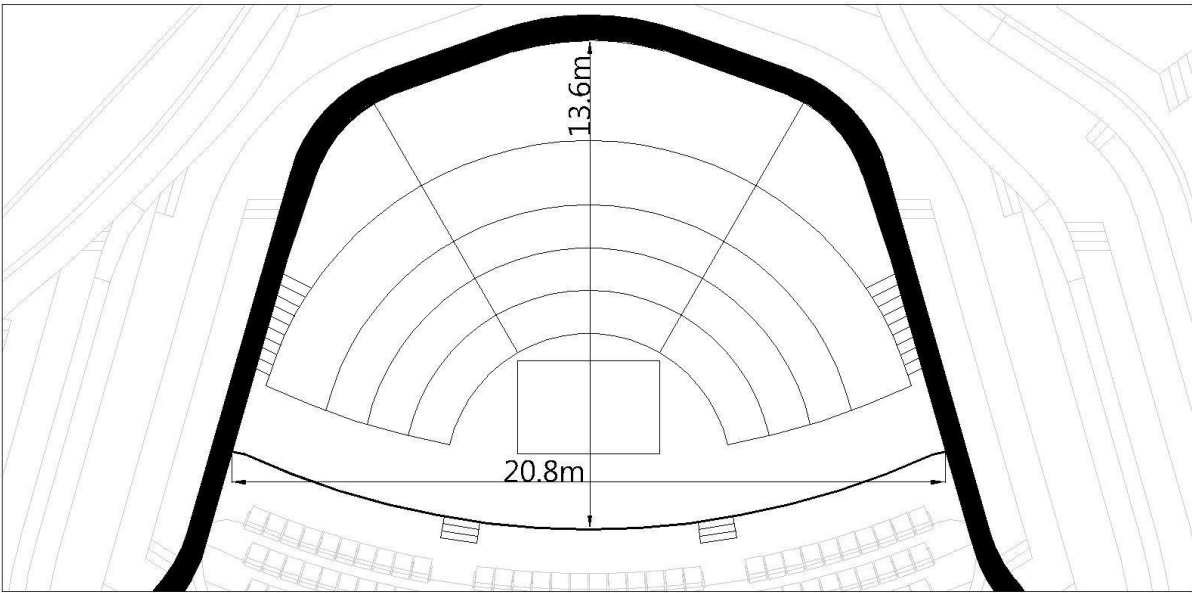


Figure 2.1-Stage Plan

2-2 Hoisting

2-2-1 Chain hoist (load 1000kg, fixed speed: 9.6m/min)
Above Stage, 24 sets, operation length 30m, Movecat chain hoist
Hoist can be connected to the main controller from both sides of the stage.

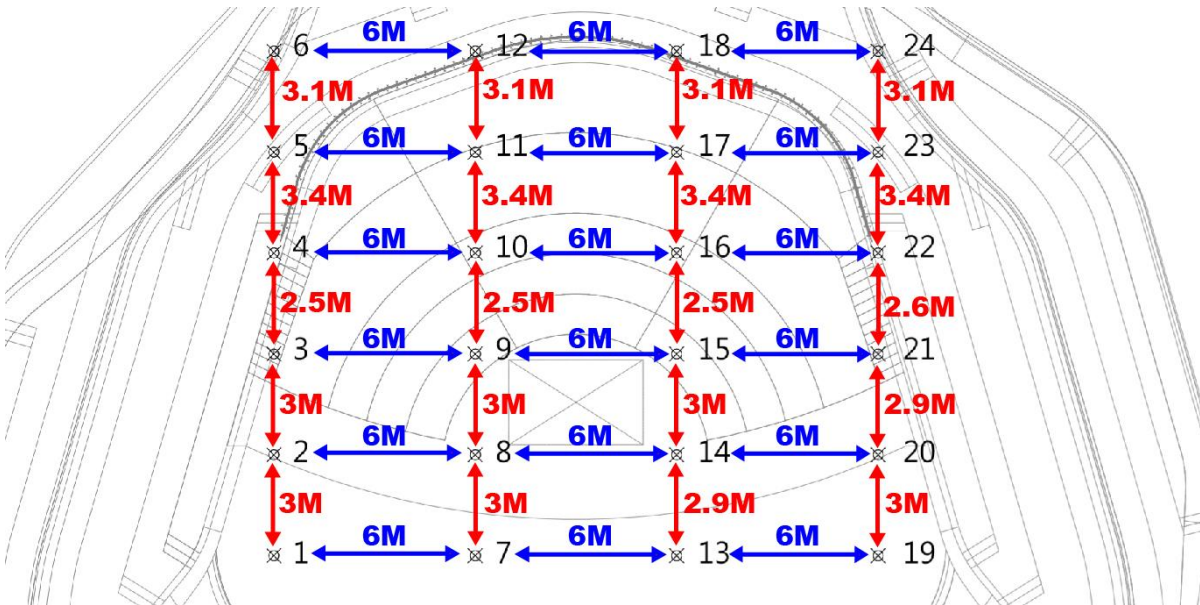


Figure 2.2 - Stage Hoisting plan

2-2-2 Trusses

Item	Quantity	Dimension	Paid Item
EUOTRUSS HD33 (Triangle)	26	0.29m(equilateral triangle length) x 0.25m(Height) x 4 m(length)	*
	4	0.29m(equilateral triangle length) x 0.25m(Height) x 3 m(length)	*

Items with * mark are paid items. Please refer to the rate tables of National Kaohsiung Center for the Arts.
*Labor for disassembly and assembly not included.

2-3 Stage Elevation Platform

Stage elevation platform consists of a center stage and five rows of platforms (15 arc platforms). Platforms can be adjusted for different orchestral formations and performance.

The marked lengths and widths below are the maximums; the actual area are shown in square meters.

Position	Platform number	Dimension(Length x Width , Area)	Platform elevation height limit (from stage level)
Row 1	No.1- No.3	1.2m x 4.73m, 5 m²	40cm
Row 2	No.4- No.6	1.2m x 5.93m, 6 m²	80cm
Row 3	No.7- No.9	1.2m x 7.13m, 8 m²	120cm
Row 4	No.10 - No.12	2.4m x 9.53m, 21 m²	160cm
Row 5	No.13 / No.15	4.65m x 1.0m/2.8m, 9 m²	200cm
	No.14	2.7m x 9.53m/12.1m, 28.5 m²	
Center Stage		3.8m x 2.4m, 9.12 m²	-455cm

Capacity: Static: 500kg/ m²
 Dynamic : 250kg/ m²

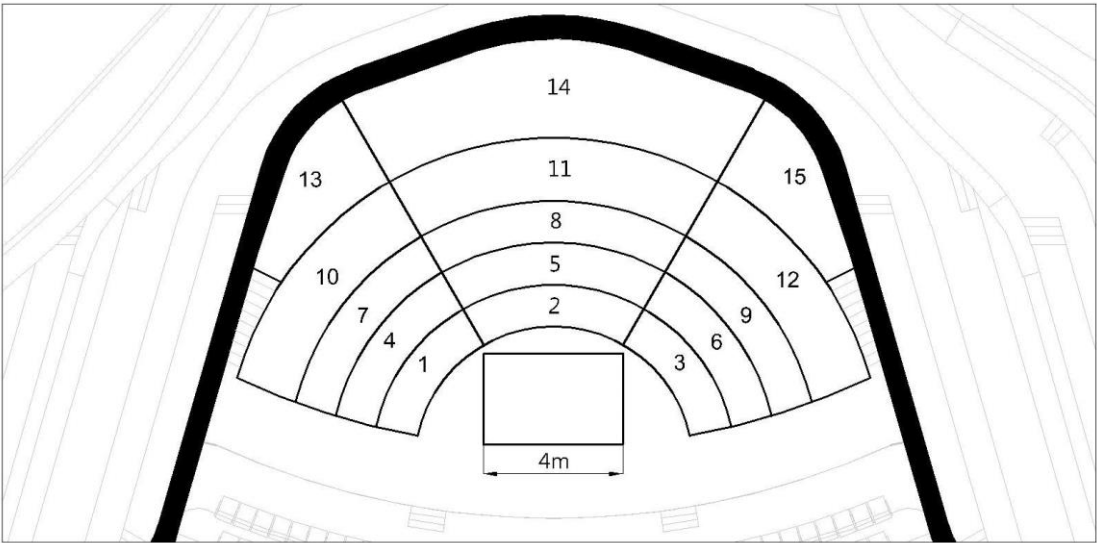


Figure 2.3 - Stage Elevation Platform plan

2-4 Acoustic Panel

The acoustic panel is placed above the stage, with the size of 16m in length, 16.6m in width and the total area of 200 m²

Elevation starts from 0.05m to 17.8m. The set heights are 9m, 14m and 17.8m.

Equipped with 67 sets of ETC S4 PAR

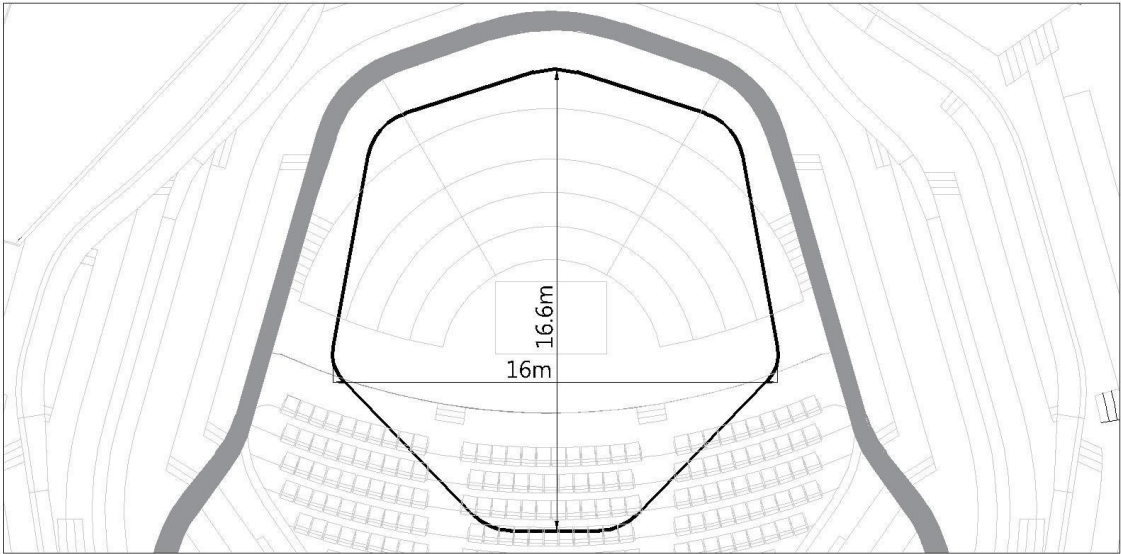


Figure 2.4- Acoustic Panel Plan

3 Lighting

3-1 Lighting System

The basic lighting for stage area is fixedly built in the Acoustic Panel, also provide 9 openable catwalk openings, which can be opened individually by the lighting requirements of the show.

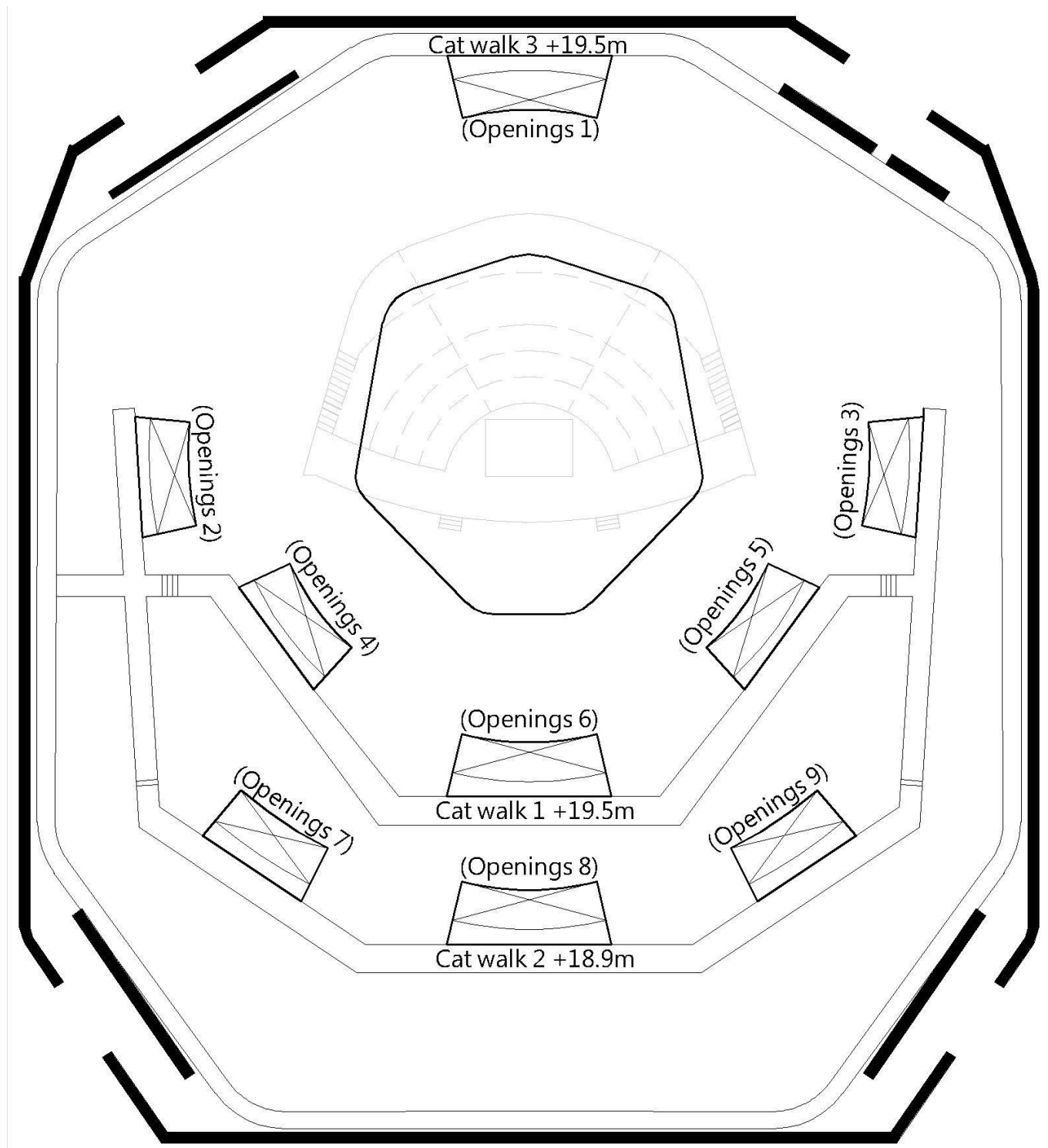


Figure 3.1 - Lighting Openings Position Plan

3-2 Lighting Instrument

Item	Position	Model	Specifications	Quantity	Frame Size	Note	Paid Item
Lighting Console	Master Control Booth	GrandMA 2 Ultra Light		1			
	Sub Master Control Booth			1			
Dimmer System	Dimmer Room	State Automation Solution	220V 3kW/Circuit	256ch			
Ellipsoidal Reflector Spotlight	Openings 1	Prolights EclProfile FW 14°	110-240V /270W	12	16.9x16.9cm		
		Prolights EclProfile FW 19°		2	15.9x15.9cm		
	Openings 2	Prolights EclProfile FW 14°		8	16.9x16.9cm		
		Prolights EclProfile FW 19°		2	15.9x15.9cm		
	Openings 3	Prolights EclProfile FW 14°		8	16.9x16.9cm		
		Prolights EclProfile FW 19°		2	15.9x15.9cm		
	Openings 4	Prolights EclProfile FW 19°		1	15.9x15.9cm		
		Prolights EclProfile FW 26°		1			
		Prolights EclProfile FW 36°		1			
	Openings 5	Prolights EclProfile FW 19°		1	15.9x15.9cm		
		Prolights EclProfile FW 26°		1			
		Prolights EclProfile FW 36°		1			
	Openings 6	Prolights EclProfile FW 10°		2	30.5x30.5cm		
		Prolights EclProfile FW 14°		12	16.9x16.9cm		
	Openings 7	Prolights EclProfile FW 10°		10	30.5x30.5cm		
		Prolights EclProfile FW 10°		12	30.5x30.5cm		
	Openings 8	Prolights EclProfile FW 10°		4	15.9x15.9cm		
		Prolights EclProfile FW 19°					
	Openings 9	Prolights EclProfile FW 10°		10	30.5x30.5cm		
	Stage Fixed at Acoustic Panel	Ovation P-56WW	220V/230W	67	19.1x19.1cm		
	Storage	Selecon SPX 5°	220V/800W	10	24.5x24.5cm		
		Selecon SPX 14°		1	15.8x15.8cm		
		Selecon SPX 19°		12			
2KW Fresnel Spotlight 8"		Selecon Arena Theatre 8" Fresnel 7°-60°	220V/2kW	30	24.5x24.5cm		
Parabolic Aluminized Reflector Spotlight		PAR 64-Kupo PL-64LB	220V/1kW	48	25.4x25.4cm	Lamp : M x 48	
Long Throw Follow Spot	Openings 7 Openings 9	Robin BMFL Followspot LT	220V/1.7Kw	2			
LED Colorpanel RGBW *Used for Organ only.	For Organ	Stagehero S400 Color Panel-C4	110-220V/ 4A-2A 440W	1 Set			*
Follow Spot Operator			Operator/ 4 Hour	1			*

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

3-3 Accessories

Item	Specifications	Size	Quantity
Barn Door	2kW Fresnel		6
Iris	For Selecon Ellipsoidal Reflector Spotlight		16
Gobo Holder	For Selecon Ellipsoidal Reflector Spotlight	B Size	40
Power Distribution Box	8CIR CEE Form Female Plug 		15
Multi-Cable	16pin Multi-Cable Harting Connector	5m	13
		10m	3
		15m	3
Ex-Cable	CEE16A	1.5m	19
		2m	30
		3m	17
		5m	9
		10m	6
		15m	6
Adapter Cable	CEE 16A(M) To Stage-Pin(F)		20

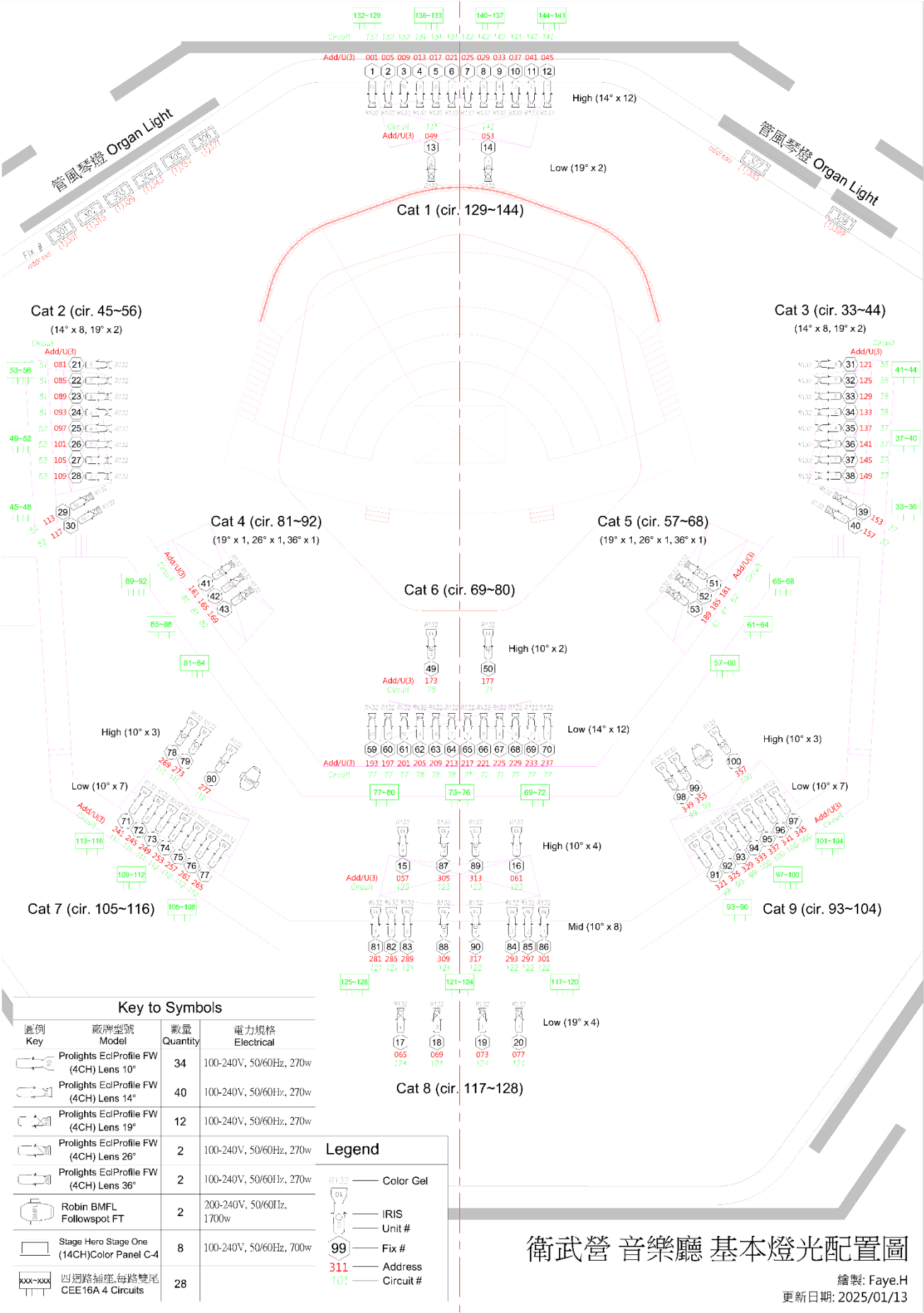


Figure 3.3.1- FOH Lighting Plot

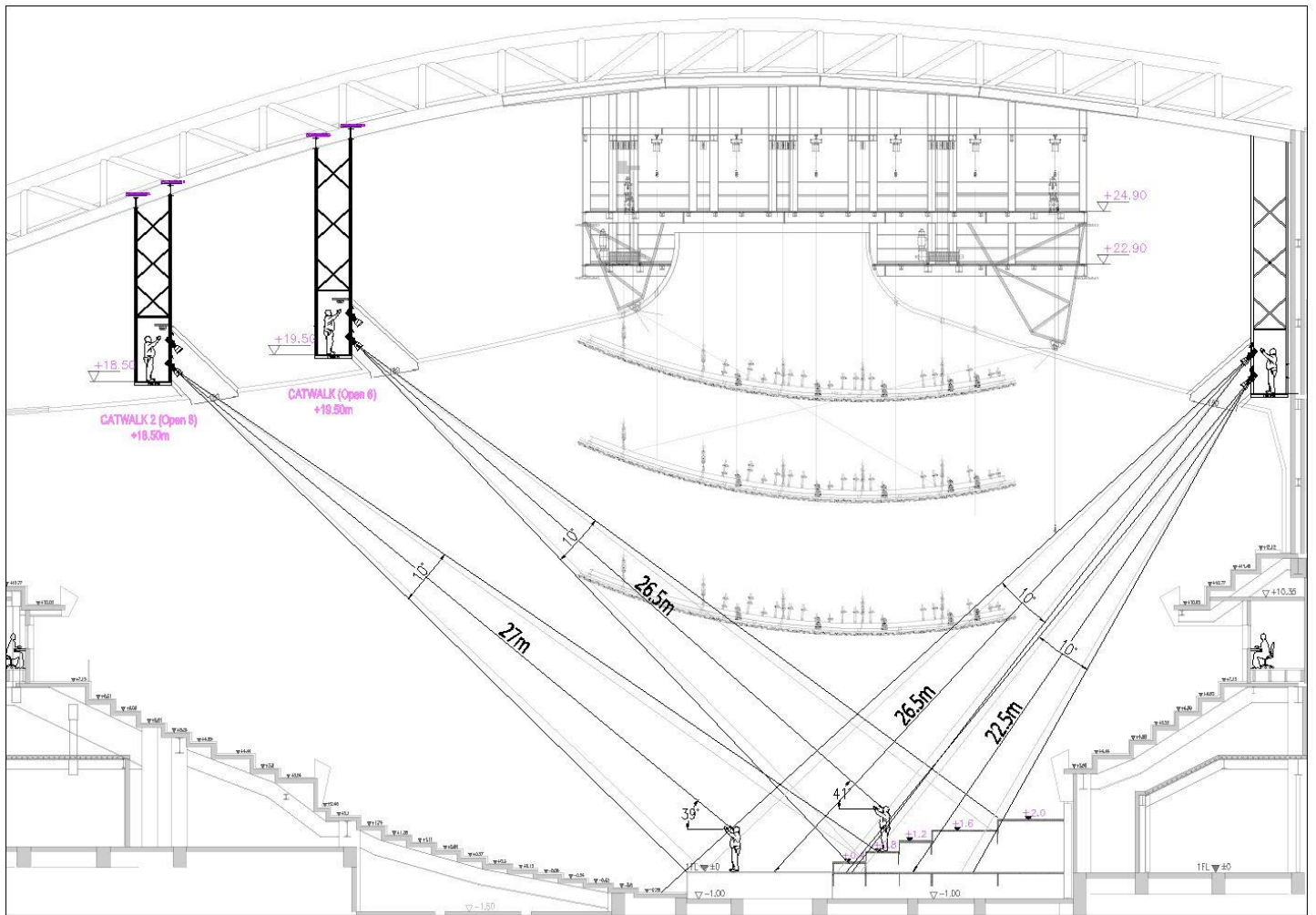


Figure 3.3.2- Lighting Section

3-4 Lighting DMX system

*Please patch all additional fixtures from (5)001,thanks.

Item	Position	Model	Quantity	Note	Paid Item
Node	Grid	MA3 4Port	1		
	Off Left/Off Right	MA2 2Port	1/1		
	DL Stage/DR Stage		1/1		
	Portable	MA3 2Port	2		
Isolator	Grid	Chauvet RDMX Splitter8	2	All isolators are 2 in 4 out (default)	
NPU	Control Booth	MA	1		

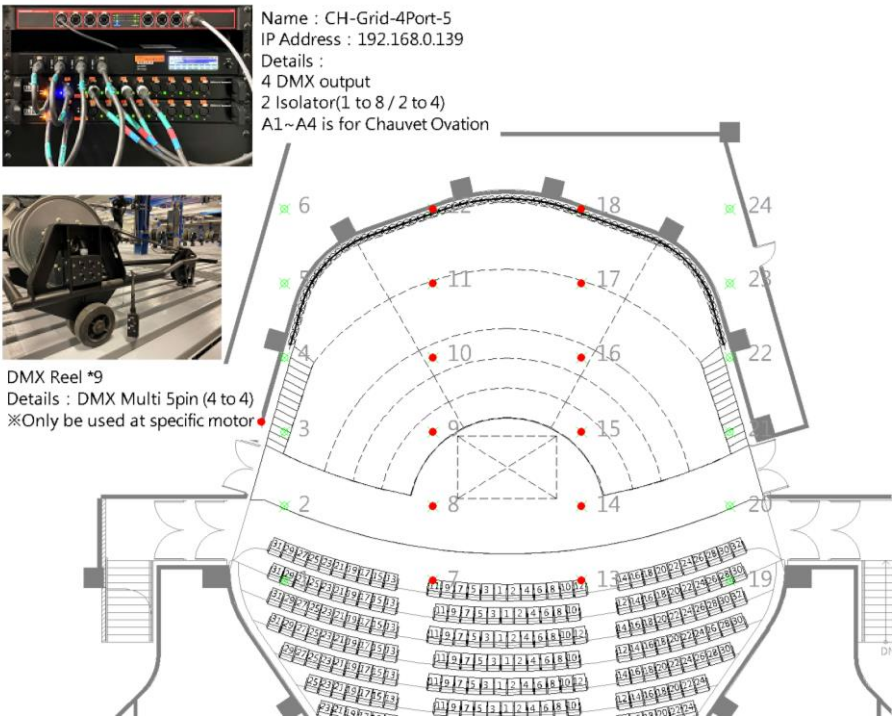


Figure 3.4.1- Grid Area Node Position Layout

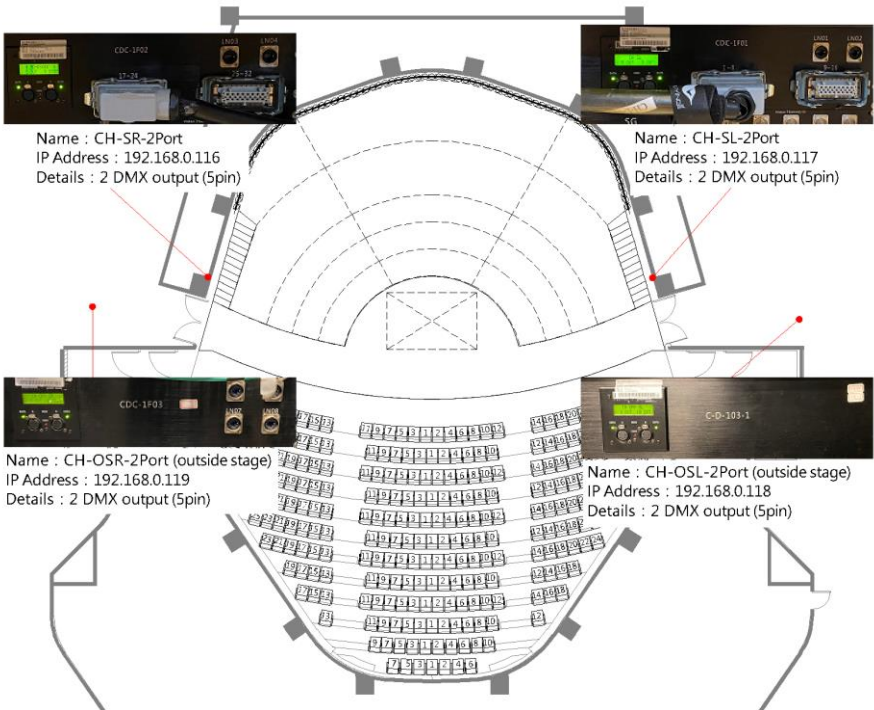


Figure 3.4.2- Stage Area Node Position Layout

3-5 Lighting Circuit

3-5-1 Stage area

Area and Position	Connector	Dimmer Circuit No.	Load	Network Circuit No.
Down Stage/L	Harting(8 circuits)	001 ~ 008	3kW	LN01~LN02
		009 ~ 016		
Down Stage/R	Harting(8 circuits)	017 ~ 024	3kW	LN03~LN04
		025 ~ 032		
Stage Right Waiting Area				LN05~LN08
Under Auditorium 12 rows				LN09~LN16

Ca =CEE 16A
Cb =CEE 32A
H =Harting(8 Circuits)

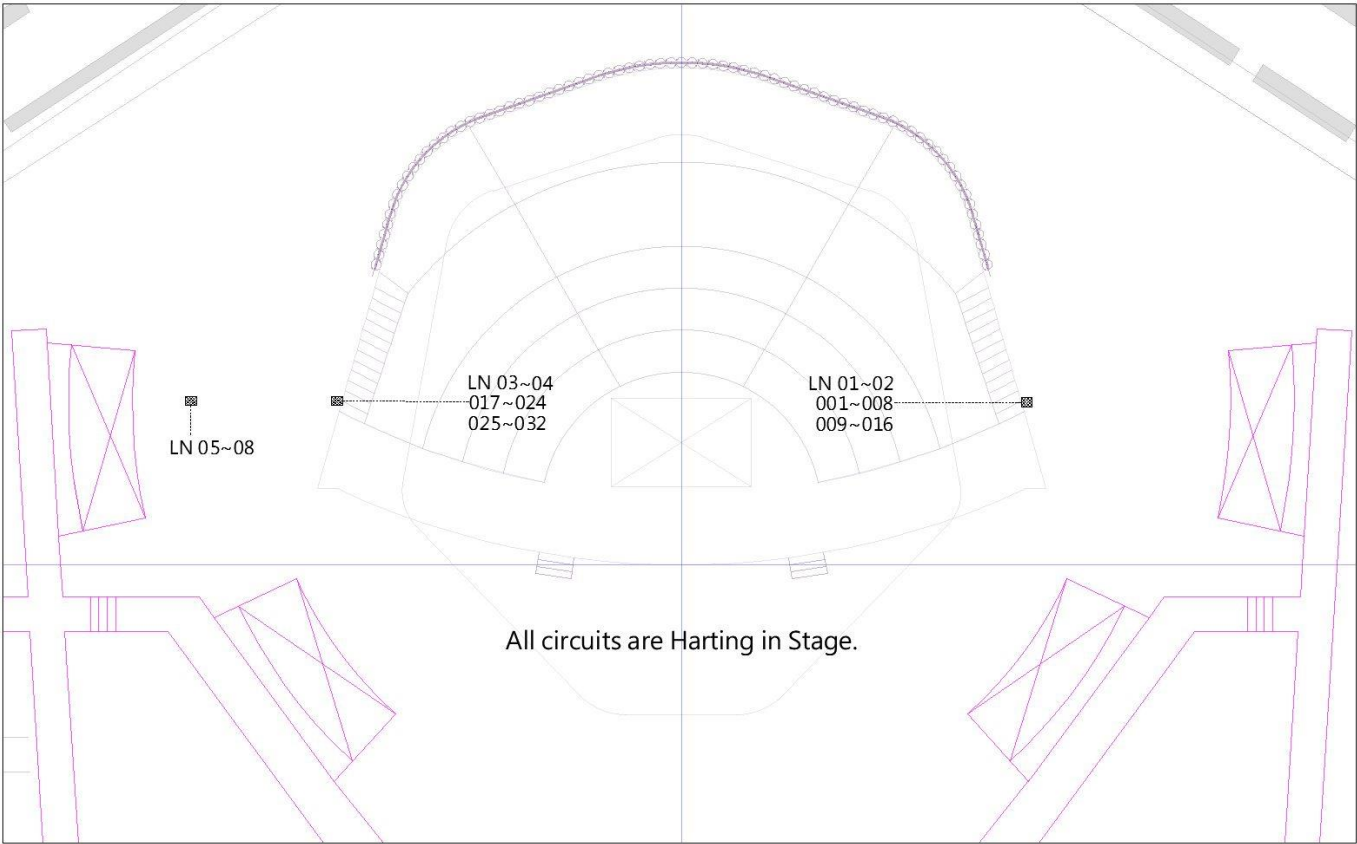


Figure 3.5.1.1- Stage Area Lighting Circuit Layout

3-5-2 Front of House

Area and Position		Connector	Dimmer Circuit No.	Load	Network Circuit No.
Master Control Booth					LN21~ LN24
Sub Master Control Booth					LN25~LN32
Openings 1	3 rd. Catwalk -Rear Stage	CEE 16A (2 outputs/circuit)	129 ~ 132	3kW	LN53~LN54
			133 ~ 136		
			137 ~ 140		
			141 ~ 144		
Openings 2	Lighting Box/R	CEE 16A (2 outputs/circuit)	045 ~ 048	3kW	LN39~LN40
			049 ~ 052		
			053 ~ 056		
Openings 3	Lighting Box/L	CEE 16A (2 outputs/circuit)	033 ~ 036	3kW	LN37~LN38
			037 ~ 040		
			041 ~ 044		
Openings 4	1st. Catwalk-Stage/R	CEE 16A (2 outputs/circuit)	081 ~ 084	3kW	LN45~LN46
			085 ~ 088		
			089 ~ 092		
Openings 5	1st. Catwalk-Stage/L	CEE 16A (2 outputs/circuit)	057 ~ 060	3kW	LN41~LN42
			061 ~ 064		
			065 ~ 068		
Openings 6	1st. Catwalk -Center	CEE 16A (2 outputs/circuit)	069 ~ 072	3kW	LN43~LN44
			073 ~ 076		
			077 ~ 080		
Openings 7	2nd. Catwalk- Stage/R	CEE 16A (2 outputs/circuit)	105 ~ 108	3kW	LN49~LN50
			109 ~ 112		
			113 ~ 116		
Openings 8	2nd. Catwalk -Center	CEE 16A (2 outputs/circuit)	117 ~ 120	3kW	LN51~LN52
			121 ~ 124		
			125 ~ 128		
Openings 9	2nd. Catwalk - Stage/L	CEE 16A (2 outputs/circuit)	093 ~ 096	3kW	LN47~LN48
			097 ~ 100		
			101 ~ 104		
Acoustic Panel	Grid-Up Stage	Harting(8 circuits)	145 ~ 152	3kW	
			153 ~ 160		
Stage Grid Area	Grid-Up S.R.	Harting(8 circuits)	161 ~ 168	3kW	LN55~LN56
			169 ~ 176		
	Grid-Up S.L.		177 ~ 184	3kW	LN57~LN58
			185 ~ 192		
	Grid-Center S.R.		193 ~ 200	3kW	LN59~LN60
			201 ~ 208		
	Grid- Center S.L.		209 ~ 216	3kW	LN61~LN62
			217 ~ 224		
	Grid-Down S.R.		225 ~ 232	3kW	LN63~LN64
			233 ~ 240		
	Grid- Down S.L.		241 ~ 248	3kW	LN65~LN66
			249 ~ 256		

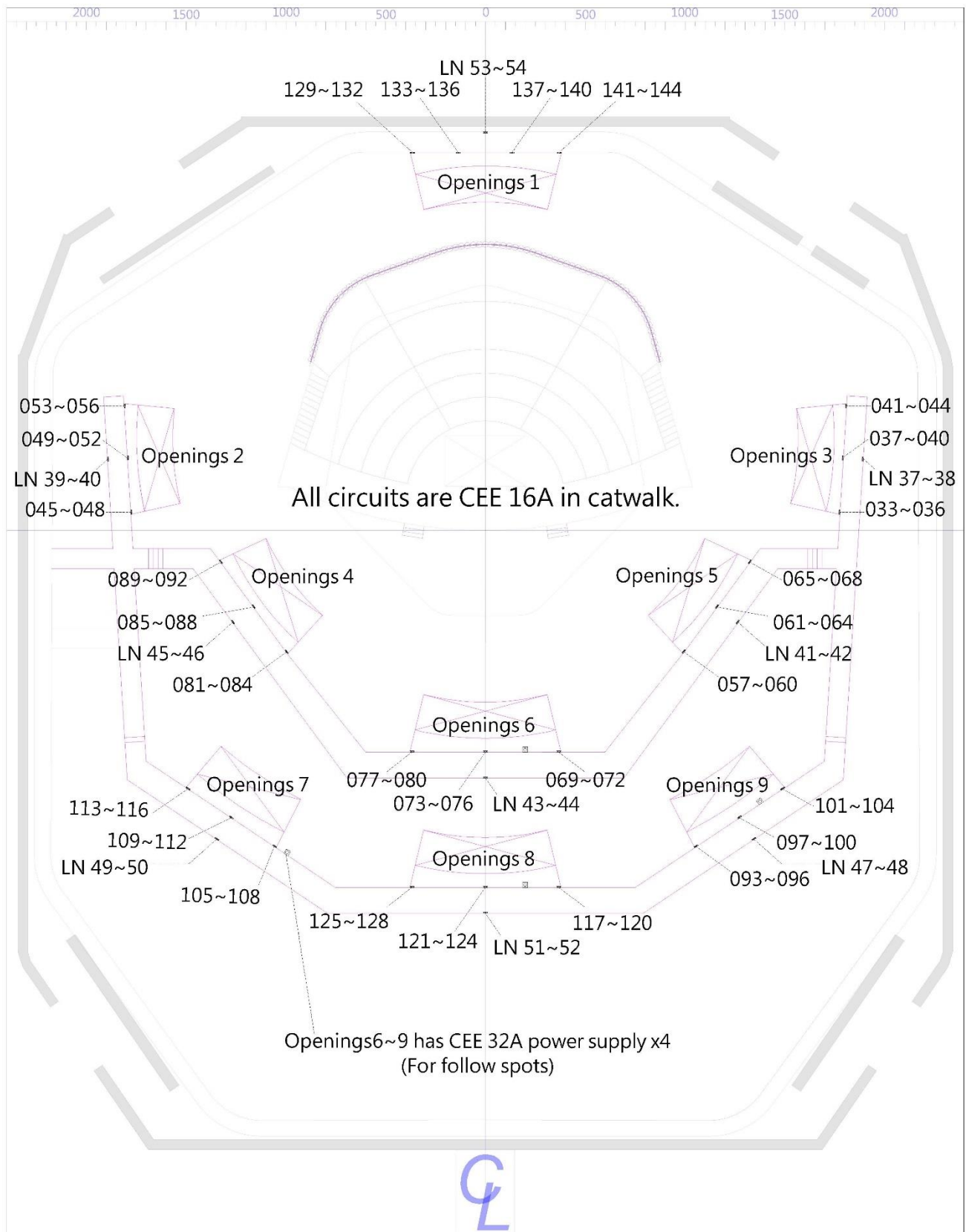


Figure 3.5.2.1- FOH Lighting Circuit Layout

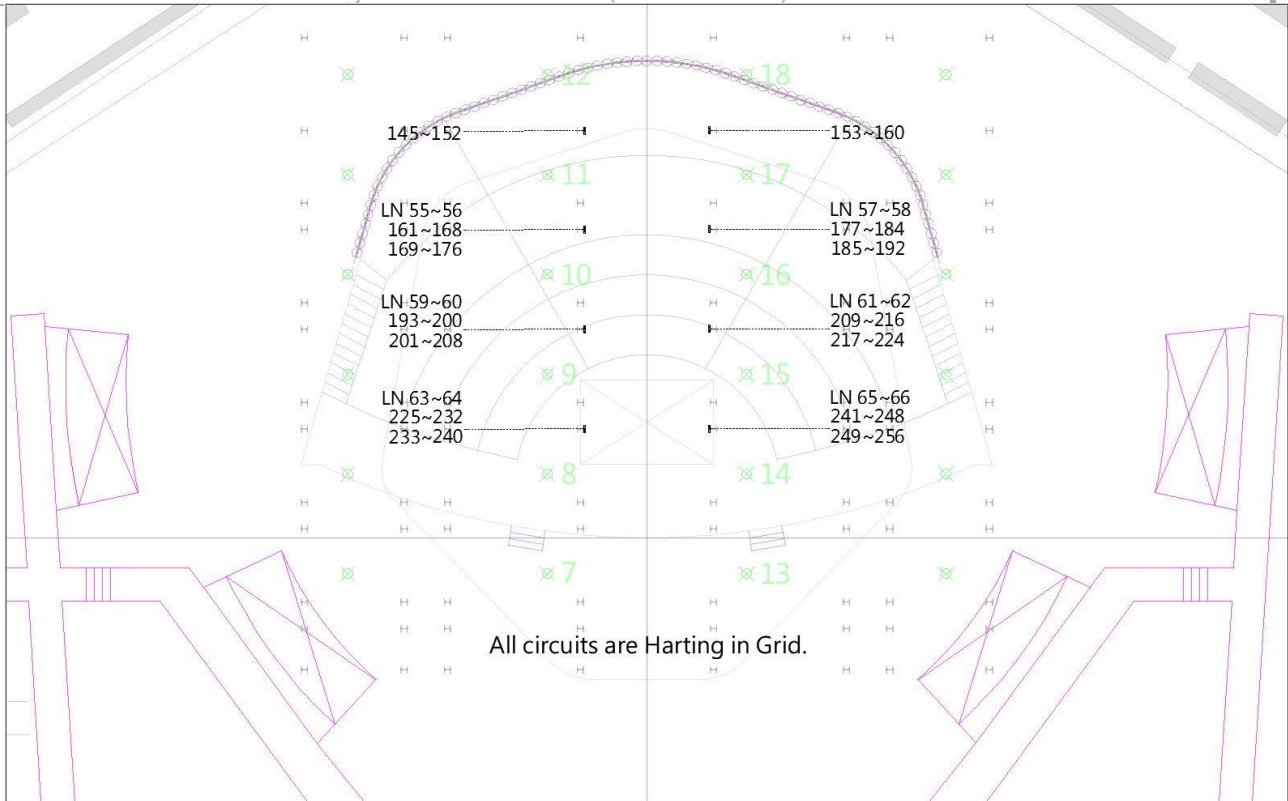


Figure 3.5.2- Grid Area Lighting Circuit Layout

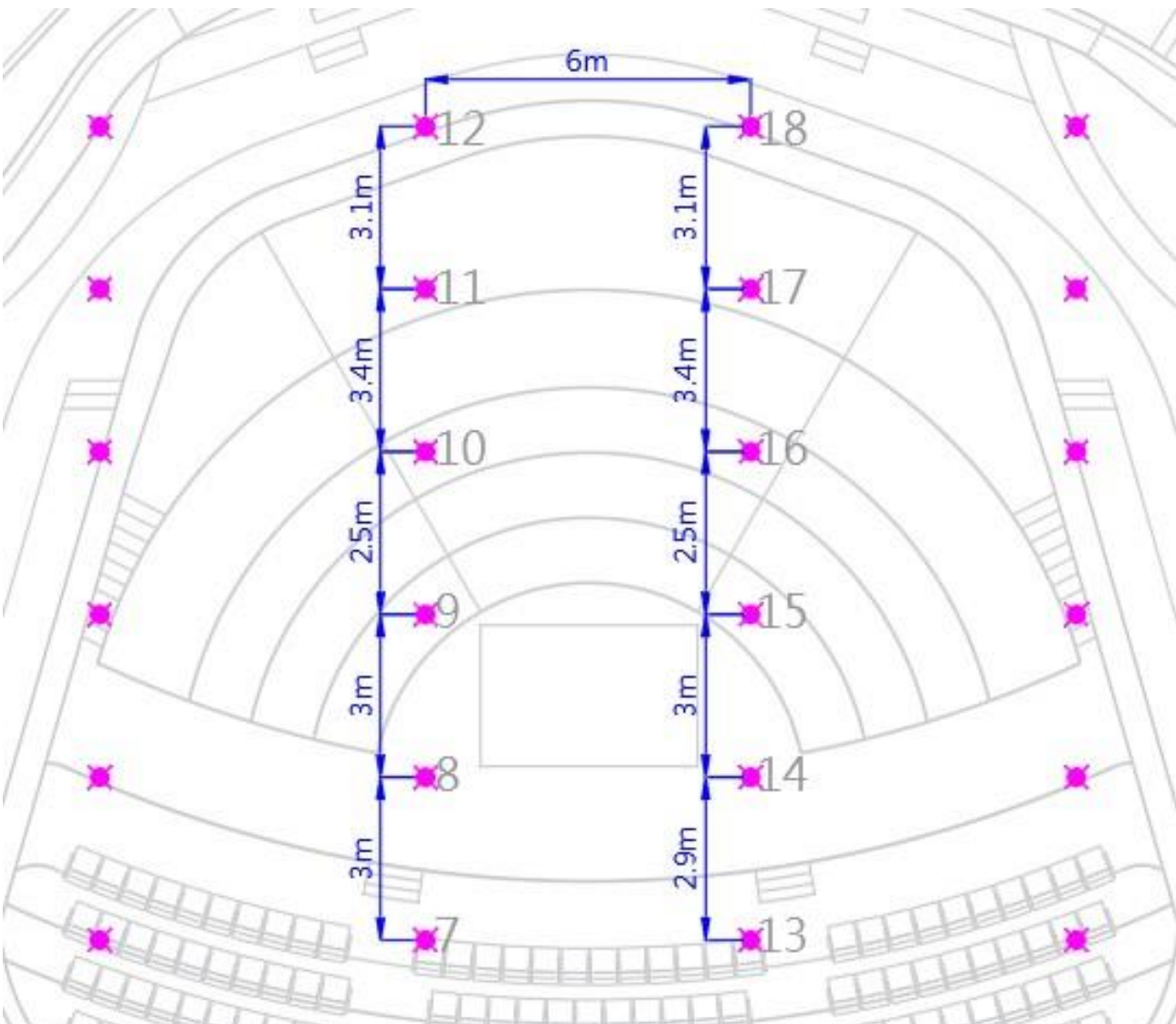


Figure 3.5.3- Chain hoist / Cable outlet

3-6 Portable Lift

Brand and Model : Snorkel UL-40 (Battery Power Supply)
Maximum height: 12.1m
Maximum weight: 136kg
Quantity: 1

3-7 Additional Power Supply

Function	Position	Specifications	Quantity
Stage	Stage Left / Right	3 ϕ 4W+G 380V/220V/60Hz (CEE 125A/3P+N+E)	1/1
Light		3 ϕ 4W+G 208V/120V/60Hz (Camlock 250A)	1/1
Sound		3 ϕ 4W+G 208V/120V/60Hz (Camlock 50A)	1/1
	Grid	3 ϕ 4W+G 208V/120V (Camlock 30A)	1



Figure 3.7.1- Additional Power Supply

Floor	Position(Seat No.)	CEE32 220V	CEE16 220V	Edison connector 220V	Network Circuit No.
2F-Chorus	F1-30	1 output/30A	1 output/15A	2 outputs/15A	LN201
	F1-31	1 output/30A	1 output/15A	2 outputs/15A	LN202
3F-Pipe Organ	B2-82		2 outputs/15A	2 outputs/15A	LN303
	B2-57		2 outputs/15A	2 outputs/15A	LN304



Figure 3.7.2- CEE Connector Non-Dimmable Position Layout

3-8 Working Light / Auditorium Light

Working Light

Work lights provided white and blue light mode, and the control switch is located on the stage manager’ s Desk.
Lighting area: Side stage entrance, Stage machine pit, Grid area and Cat walk.

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.

4 Audio/Video Systems

4-1 Audio Facilities

Item	Quantity	Brand and Model	Paid Item
Digital mixer	1	Studer Vista 5 M3/32	
Digital speaker	2	Renkus-Heinz ICONYX IC24RII	
Digital speaker	2	Renkus-Heinz ICONYX IC16RII	
Digital speaker	8	Renkus-Heinz ICONYX IC8RII	
Stage front speaker	7	Renkus-Heinz CFX41	
12" Stage Active speaker	8	Renkus-Heinz PN121M/12	*
6.5" Stage Active speaker	8	Renkus-Heinz PN61	*
Digital I/O Fiber Module	2	Studer D21M	
Dual channel Equalizer	4	BSS FCS 960	*
Stereo audio converter	1	Whirlwind PcUSB 2-Channel USB Direct Box	
Mixing console	1	Midas M32R LIVE Stage Box : Midas DL16	*
Wireless PA equipment	2	MIPRO MA-708	*
Wireless PA equipment	2	MIPRO MA-808	*
Wireless PA equipment	2	MIPRO MA-828	*
Mixing console Combo	4	Mixer : YAMAHA DM3 Standard Handheld Wireless Microphone : Mipro ACT-747 x 1 、 ACT-700H x 4 Speaker : Renkus-Heinz PN61 x 2 Including assembly and disassembly and execution manpower.	*
Mixing console	1	Midas heritage D HD96-24-CC-TP Stage Box : Midas DL231	
Signal Splitters	1	Midas DL431	

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

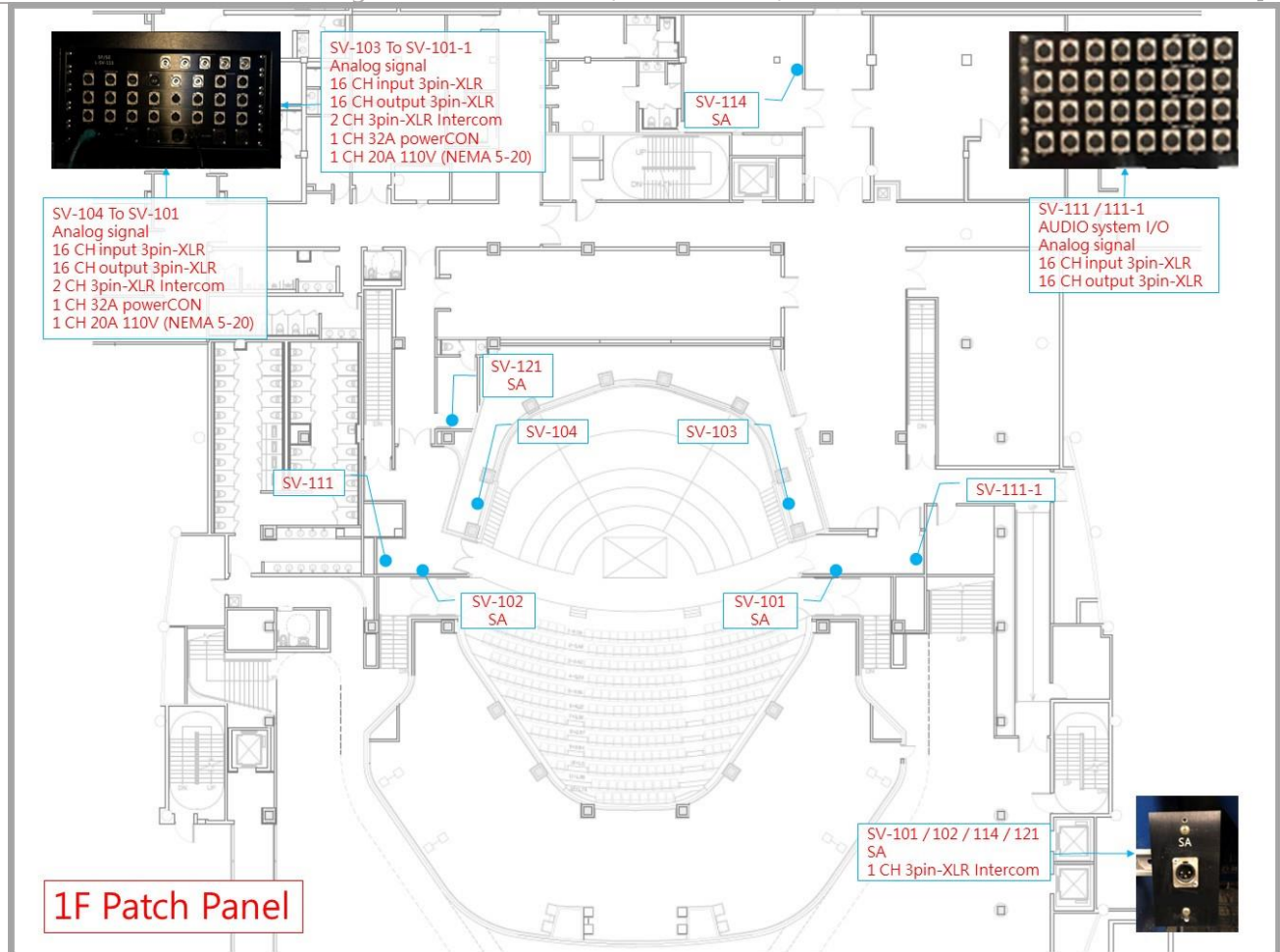


Figure 4-1.1- 1F Audio system channel diagram

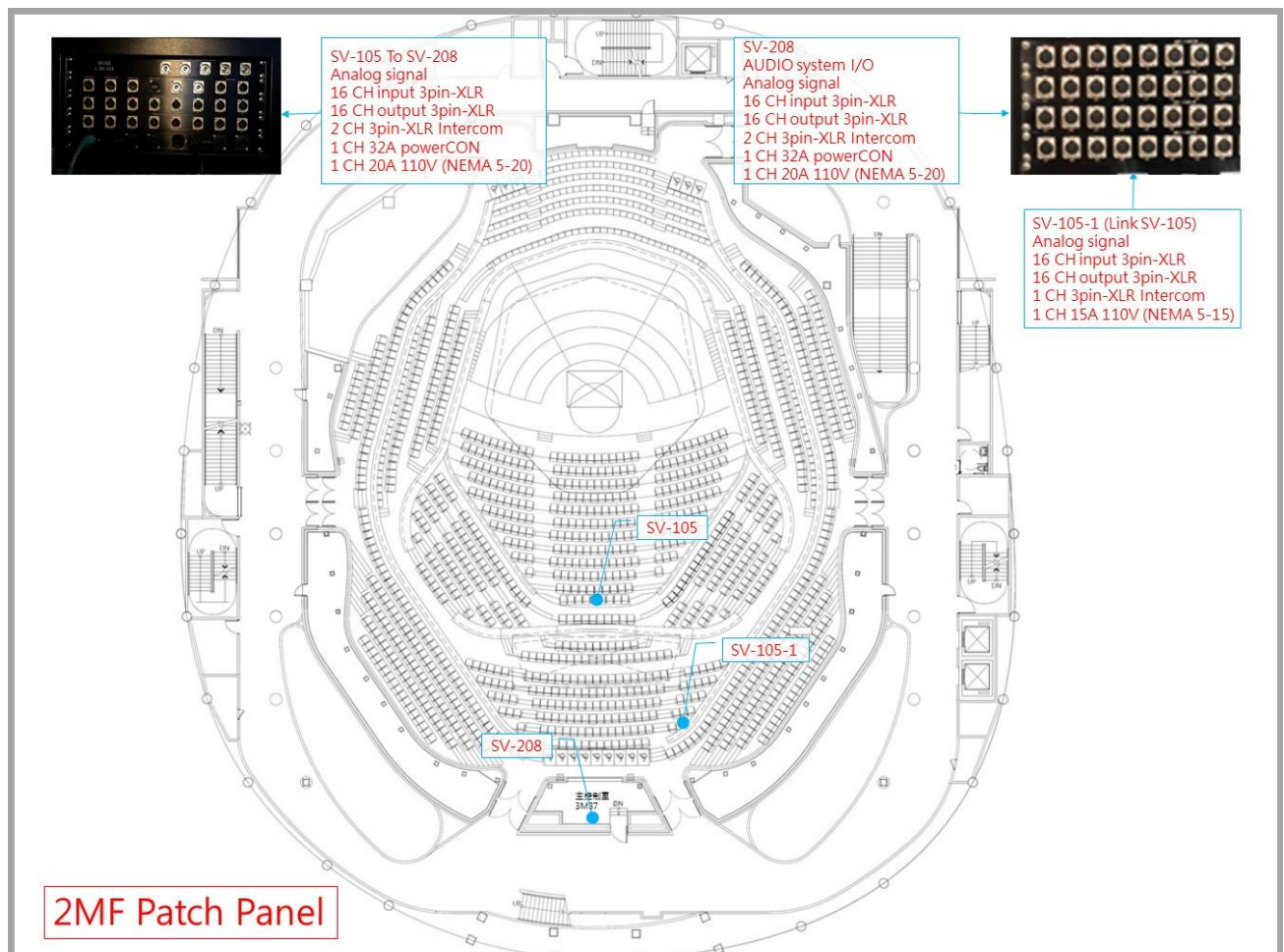


Figure 4-1.2 2MF Audio system channel diagram

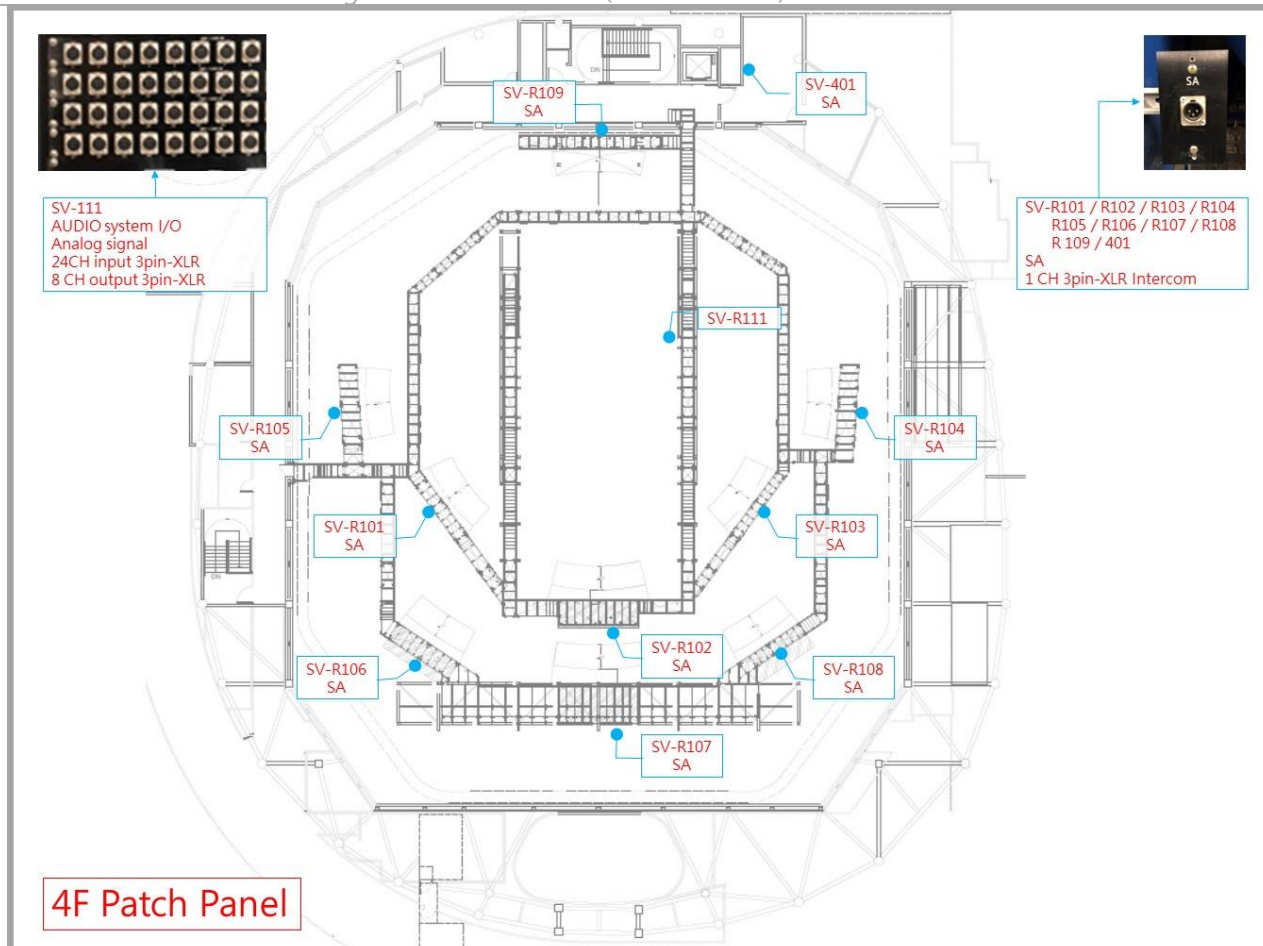


Figure 4-1.3 4F Audio system channel diagram

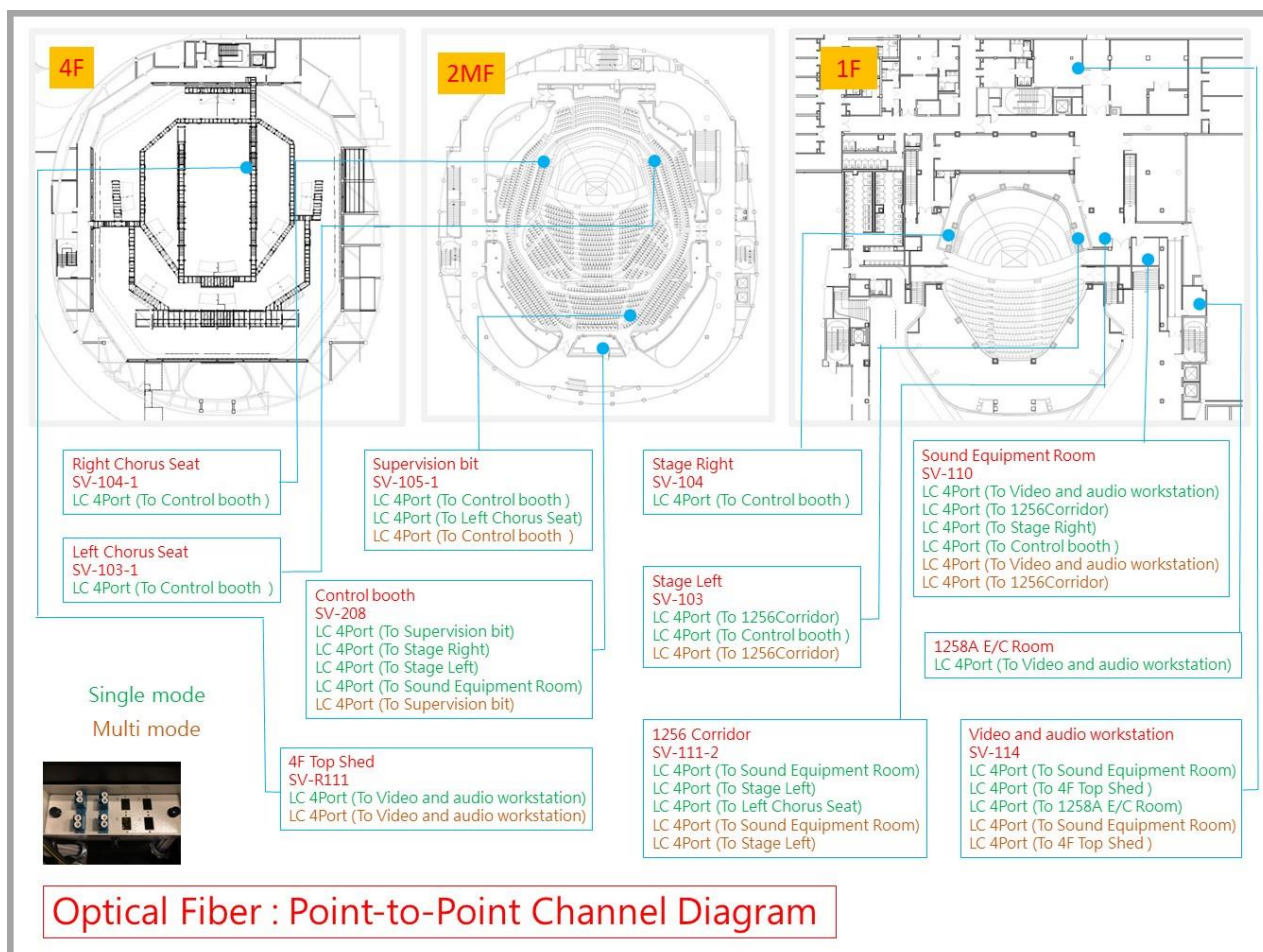


Figure 4-1.4 Optical fiber point-to-point channel diagram

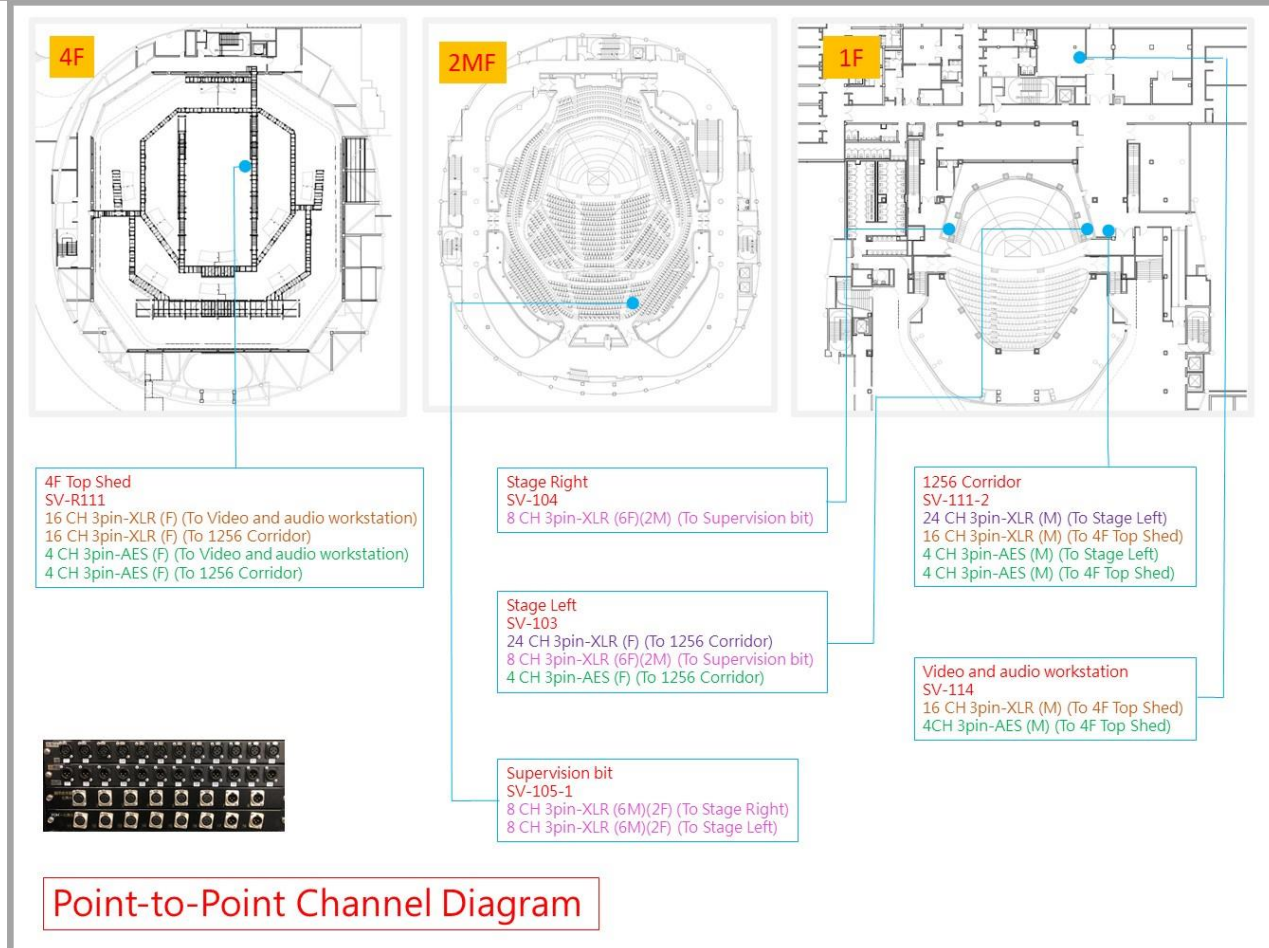


Figure 4-1.5 Signal point-to-point channel diagram

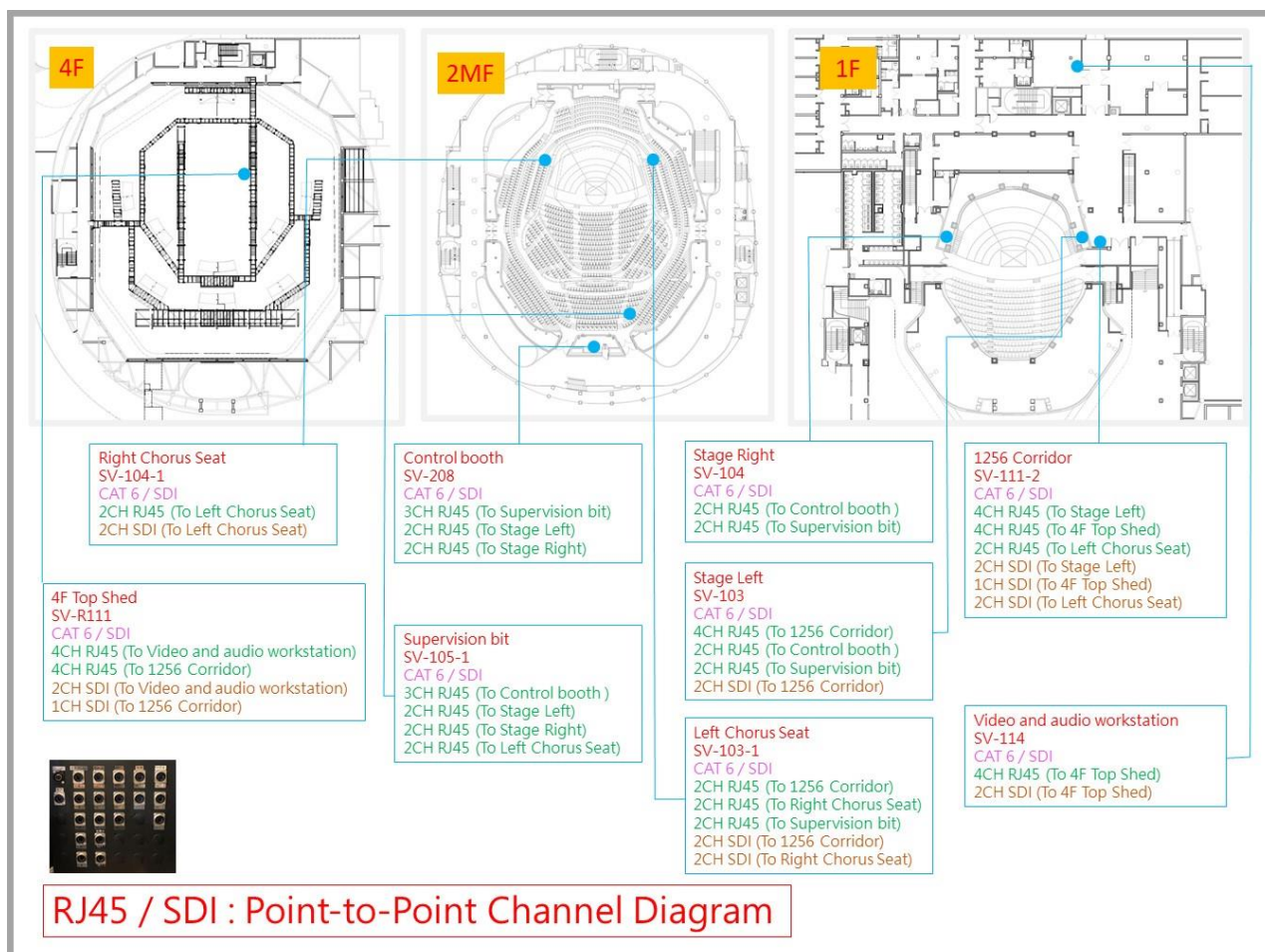


Figure 4-1.6 RJ45 / SDI point-to-point channel diagram

Item	Quantity	Brand and Model	Paid Item
Main Digital mixer	1	Studer Vista 5 M3/42	
Digital I/O Fiber Module	1	Studer D21M	
CD PLAYER	1	Tascam CD-500B	*
CD-R PLAYER	1	Tascam CD-RW 901 MKII	*
Multitrack Recording equipment	1	Joeco BBR1D+2.5" USB 1TB HD	*
Dual track Hard disk recorder	1	Tascam DA 3000	*
Active speakers	4	Dynaudio BM12 MkIII	

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

4-3 Stage Manager's Console

The stage manager desk equips with a live sound monitor, video monitors, synchronous show screens with lighting and fly, communication system and paging system.

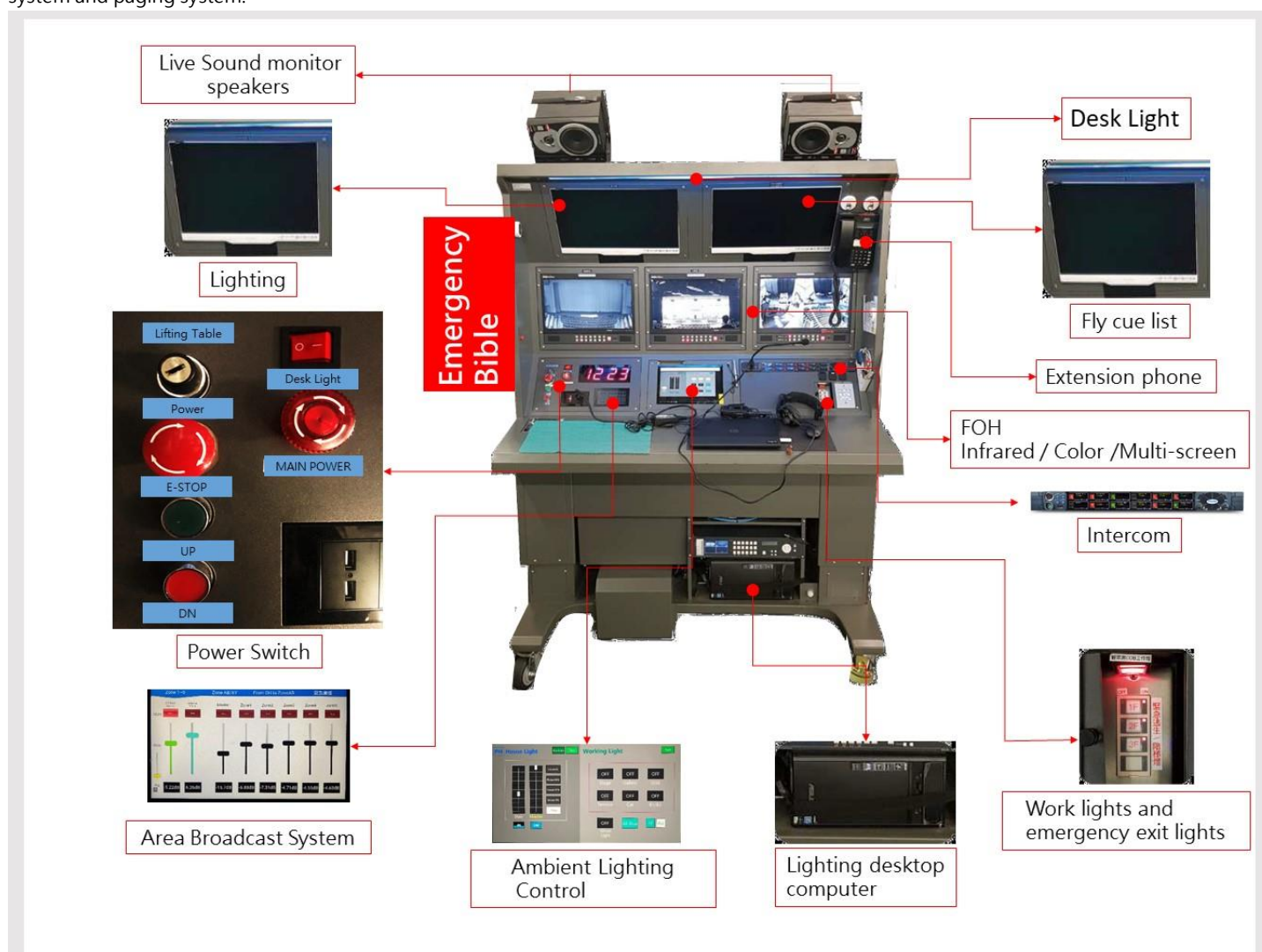


Figure 4-3.1 Stage Manager's Console

4-4 Microphone

Item	Quantity	Brand and Model	Paid Item
Condenser microphone Neumann U87 Ai Studio Set	1	Neumann U87 Ai Studio Set 1. 2.	*
Condenser microphone Neumann KM184	8	Neumann KM184 Accessories : SG 21 bk / WNS 100	
Condenser microphone DPA 2011C/MMP-C	4	DPA 2011C/MMP-C	
Condenser microphone DPA 4099-DC-1(For Loud SPL)/DAD6001-BC	8	DPA 4099-DC-1(For Loud SPL)/DAD6001-BC Accessories : 1. Bass(BC4099) x 2. x 3. Piano(PC4099) x 4. (CM4099) x 5. Guitar(GC4099) x 4 6. Sax and Trumpet(STC4099) x 2 7. MIC Stand(MS4099) x 8. Microphone Clip(UC4099) x 2 9. Violin and Mandolin(VC4099) x 8	
Dynamic microphone	2	Audio Technica AE4100	*
Dynamic microphone	6	Audio Technica ATM250	*
Condenser microphone	2	Audio Technica AE5400	*
Cardioid Condenser microphone	6	Audio Technica AT4021	*
Cardioid Condenser Boundary Microphone	4	Audio Technica U851R	*
Stage reception Microphone	2	DPA 4017B / DPA UA0836 Holders	
Hypercardioid Condenser microphone	8	AKG CK63-ULS+ C480B	*
Cardioid condenser microphone	8	AKG CK61-ULS + C480B	*
Wireless system-Handheld microphone	4	Sennheiser SKM500G3+MME865	*
Wireless system-Lavalier microphone	8	Sennheiser SK500G3+MKE2	*
Single channel wireless microphone receiver	12	Sennheiser EW500G3	
Directional antenna	2	Sennheiser AD3700	
Antenna Splitter	3	Sennheiser ASA1	

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

4-5 Communications

Item	Quantity	Brand and Model	Paid Item
Intercom host machine	1	Clear-Com Eclipse HX-Delta	
System interface	1	Clear-Com Helixnet HMS-4X	
Double circuit intercom	7	Clear-Com Helixnet HBP-2X	
Fixed intercom microphone/ speak	1	Clear-Com V12PDXY 110 / 340 Clear-Com V12PDDXY 110 / 340	
Single head receiver microphone	4	Clear-Com CC-300	
Double head receiver microphone	3	Clear-Com CC-400	
Telephone intercom	4	Clear-Com HS-6	
Digital Wireless Intercom set	4	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.

4-6 Locations of Communications

Each floor is paired with intercom system, 27units in total.

Item Number	Floor	Location
1	B1F	Storage room
2	1F	Stage left preparation area
3		Stage right preparation area
4		Stage left
5		Stage right
6		Auditorium seating area 12 row
7		Loading Dock
8		Sound room
9		Recording studio
10		Green room 1
11		Dressing room 2
12		Dressing room 3
13		Dressing room 4
14	2MF	Master control room
15		Master control room
16		Deputy Control Room
17	4F	Dimmer room
18		Amplifier room
19	R1F	Catwalk 1 st (Lightingopen4)
20		Catwalk 1 st (Lightingopen5)
21		Catwalk 1 st (Lightingopen6)
22		Catwalk 1 st (Lightingopen7)
23		Catwalk 2 st (Lightingopen8)
24		Catwalk 2 st (Lightingopen9)
25		Stageright Box(Lightingopen3)
26		Stageleft Box(Lightingopen2)
27		Catwalk(Lightingopen1)

4-7 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)	2	Panasonic AW-HE870 Panasonic LZ20M85G	
Remote control	1	Panasonic AW-RP50	
Switcher	1	Panasonic AW-RP120	
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.

4-8 Paging Systems

Backstage Paging Systems

Backstage Paging Systems available for all dressing rooms, green rooms, Company office and Corridors, see next page.
The Paging and Program position is located on the Stage Manager Desk.

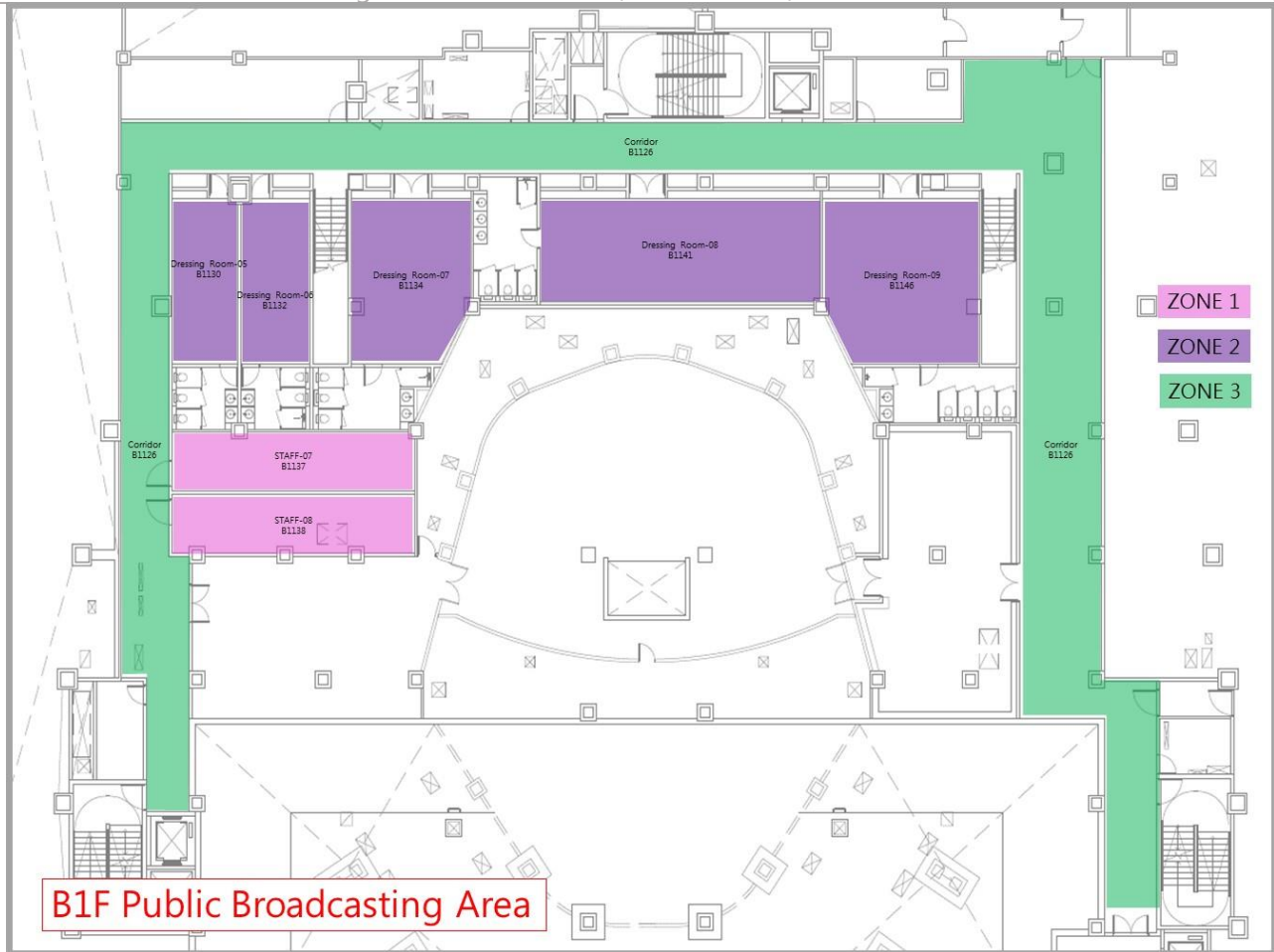


Figure 4-8.1- B1F public broadcasting area icon

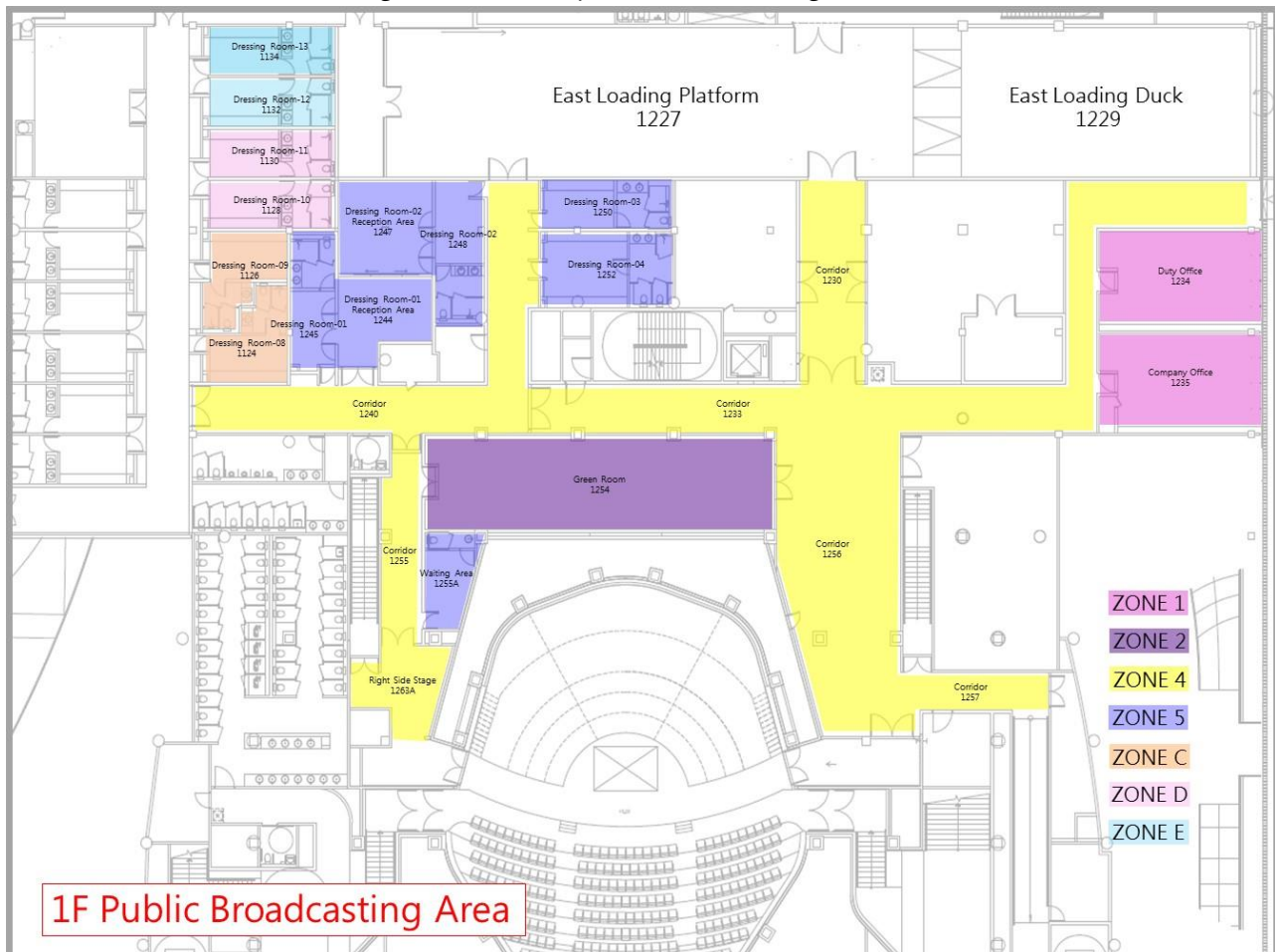


Figure 4-8.2 1F public broadcasting area icon

4-9 Projector

Item	Quantity	Brand and Model	Paid Item
Laser Projector/ Downlight type (Dedicated to Subtitle)	1	1. Panasonic(Space Player) x 2 2. Laptop x 2 3. Switcher x 1 Including assembly and disassembly, excluding operation After second performance will discount 50%	* Option 2
5K Lumens LCD Projector	2	NEC PE501X	() Option 2
5K Lumens Laser Projector	2	Optoma ZU500USTe Projection distance (45.7cm 132 inches - 58.3cm 155 inches)	* (Shared with four halls) Option 2
6K Lumens Laser Projector	2	Panasonic PT-VMZ60T · Wide-angle lens(Zoom) Lens : throw ratio 1.09 -1.77 : 1	* (Shared with four halls) Option 2
10K Lumens Laser Projector	2	Panasonic PT-RCQ10 · Normal lens(Zoom) Lens : throw ratio 1.71~2.41 : 1	* (Shared with four halls) Option 2
Ultra Short-Throw Lens	1	ET-DLE020 · Lens : throw ratio 0.28~0.299 : 1 (For Panasonic PT-RCQ10 only)	* (Shared with four halls) Option 2
30K Lumens Laser Projector	2	Panasonic PT-RQ35K with optional lens ET-D3LEW60 (throw ratio : 0.991-1.18:1) ET-D3LEW10 (throw ratio : 1.35-1.84:1) ET-D3LES20 (throw ratio : 1.79-2.59:1)	* (Shared with four halls) Option 2 、 3
17.3" Full HD LCD Monitor	2	Datavideo TLM-170L	* (Shared with four halls) Option 1
Projection Screen	4	Grandview X-Press Pull-UP 100-inch projection screen(W203cm*H152cm)	* (Shared with four halls) Option 1

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

Option 1 : Setup and operating is not included !

Option 2 : Operating is not included !

Option 3 : Rental fee 50% off from second show.

5 Backstage

5-1 Dressing Room and Green Room

No.	Floor	Room No.	Name	Capacity	Notes
1	1F	1235	Company office	20	Includes table and chairs.
2		1245	Dressing room 01	3	Includes mirror, tables and chairs, toilet and shower
3		1248	Dressing room 02	2	Includes mirror, tables and chairs, toilet and shower, piano
4		1250	Dressing room 03	3	Includes mirror, tables and chairs, toilet and shower
5		1252	Dressing room 04	5	Includes mirror, tables and chairs, toilet and shower
6		1254	Green room	30	Includes dressing mirror, tables and chairs.
7	B1F	B1130	Dressing room 05	7	Includes mirror, tables and chairs and toilet
8		B1132	Dressing room 06	7	Includes mirror, tables and chairs, toilet and shower
9		B1134	Dressing room 07	13	Includes mirror, tables and chairs, toilet and shower
10		B1141	Dressing room 08	29	Includes mirror, tables and chairs, toilet and shower
11		B1146	Dressing room 09	20	Includes mirror, tables and chairs, toilet and shower

5-2 Orchestra Facilities

No.	Item	Quantity	Notes
1	Music Chair	150 *	WENGER Musician Chair
2	Ensemble stool	18 *	Rotate : 6 Unable to rotate : 12
3	Conductor' s chair	1 *	
4	Music stand	140 *	
5	Music stand light	60 *	White light, two brightness mode
6	Conductor' s podium	1 *	WENGER Double podium / Base podium:1.09 x 0.97 x 0.15 m Double podium / Upper podium:0.81 x 0.97 x 0.15 m Single podium:1.2 x 1.15 x 0.25 m
7	Conductor' s stand	1	
8	Percussion table stand	8 *	
9	Endpin stopper	20 *	
10	Acoustic shield	5 *	
11	Wooden Platform	30 *	Large L183cm*W138cm*H22cm*10 Medium L183cm*W92cm*H22cm*10 Small L183cm*W46cm*H22cm*10
12	Resonance Podium for Violin 100*60*15(cm)	8 *	
	Resonance Podium for Violin 100*60*20(cm)	8 *	
	Resonance Podium for Cello 130*60*15(cm)	4 *	
	Resonance Podium for Cello 130*60*20(cm)	4 *	
	Solo Musician' s Podium 175*100*20(cm)	1 *	
	Solo Musician' s Podium 115*110*15(cm)	1 *	

Items with * mark are shared with Recital Hall.

5-3 Pianos (shared between four venues)

No.	Item	Brand	Model Number	Quantity	Notes
1	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	Harpsichord	J.C.NEUPERT	Hemsch	1	*
6	Celesta	Schiendmayer	5 ½ Octave Studio model	1	*
7	Pipe Organ	ORGELBAU KLAIS BONN		1	*
		ORGELBAU Johannes KLAIS	Portable Pipe Organ	1	*
8	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 :

1. Pianos shared with four venues, booking in advance is required.
2. WeiWuYing's contract-signed piano technician must tune all pianos before performance.(Piano hire fees do not include tuning costs)
3. Extra material (any object touching the strings during the performance, including hands or palms) pianos are limited to YAMAHA C7XPE and KAWAI SK-6L, which should be restored and tuned by the venue's contracted tuner at the end of the performance (at the latest on the next day) at the expense of the applicant..
4. While WWY' s piano is in part of the performance, the Fog and Haze Machine can' t be used.

5-4 Pipe Organ

Kaohsiung/TWN, National Kaohsiung Center for the Arts

Symphonic Organ: V/102, mech.+elektr./elektr.				Classic Organ: II/25, mech.+elektr./elektr.	
I. POSITIF EXPRESSIF C-c⁴		Hautbois	8'	Flûte	4'
Quintaton	16'	Voix humaine	8'	Petite QUinte	2 2/3'
Montre	8'	Clairon	4'	Petite Flûte	2'
Salicional	8'	Trémolo		Piccolino	1'
Bourdon	8'	IV. GRAND-CHŒUR C-c⁴		Mixture VI	2 2/3'
Unda maris	8'	Principal	8'	Contre Bombarde	32'
Flûte ouverte	4'	Bourdon	8'	Bombarde I	16'
Violon	4'	Octave	4'	Bombarde II (SO)	16'
Chœur de Violes VI	2 2/3'	Nazard	2 2/3'	Trompette I	8'
Basson	16'	Quarte	2'	Trompette II (SO)	16'
Hom	8'	Tierce	1 3/5'	Clairon	4'
Chœur de Rossignols		Larigot	1 1/3'	KOPPELN/COUPLERS	
Trémolo		Septième	1 1/7'	Tirasse Positif expressif (I-P)	
II. GRAND-ORGUE C-c⁴		Sifflet	1'	Tirasse Grand-orgue (II-P)	
Montre	16'	Grosse Fourniture VI	2 2/3'	Tirasse Récit expressif (III-P)	
Bourdon	16'	Cymbale VI	1'	Tirasse Grand-chœur (IV-P)	
Montre	8'	Grosse Trompette	8'	Tirasse Solo (V-P)	
Salicional	8'	Cromorne	8'	Tirasse Chamades (CH-P)	
Flûte harmonique	8'	Gros Clairon	4'	Grand-orgue au Positif (II-I)	
Bourdon	8'	Trémolo		Récit au Positif expressif (III-I)	
Grosse Quinte	5 1/3'	V. SOLO C-c⁴		Grand-chœur au Positif (IV-I)	
Prestant	4'	Flûte majeur	8'	Solo au Positif expressif (I-P)	
Flûte ouverte	4'	Gambe	8'	Chamades au Positif expressif (CH-I)	
Grosse Tierce	3 1/5'	Voix céleste	8'	Positif au Grand-orgue (I-II)	
Quinte	2 2/3'	Flûte de Concert	4'	Récit au Grand-orgue (III-II)	
Septième	2 2/7'	Grande Bombarde	16'	Grand-chœur au Grand-orgue (IV-II)	
Doublette	2'	Trompette	8'	Solo au Grand-orgue (V-II)	
Cornet V	8'	Cor anglais	8'	Grand-chœur au Récit (IV-III)	
Fourniture VI	2'	Clairon	4'	Solo au Récit (V-III)	
Cymbale VI	1 1/3'	Chamade	16'	Chamades au Récit (Ch-III)	
Bombarde	16'	Chamade	8'	Solo au Grand-chœur (V-IV)	
Trompette	8'	Chamade	4'	Chamades au Grand-chœur (Ch-IV)	
Chamade (SO)	16'	PÉDALE C-g¹		Octaves graves Positif (Sub in I)	
Chamade (SO)	8'	Voix de baleine	64'	Octaves aiguës Positif (Super in I)	
Chamade (SO)	4'	Flûte	32'	Octaves graves Grand-orgue (Sub in II)	
III. RÉCIT EXPRESSIF C-c⁴		Soubasse	32'	Octaves aiguës Grand-orgue (Super in II)	
Bourdon	16'	Basse acoustique	32'	Octaves graves Récit (Sub in III)	
Diapason	8'	Flûte	16'	Octaves aiguës Récit (Super in III)	
Flûte harmonique	8'	Principal-Basse (G-O)	16'	Octaves graves Grand-chœur (Sub in IV)	
Viole de Gambe	8'	Soubasse	16'	Octaves aiguës Grand-chœur (Super in IV)	
Voix céleste	8'	Bourdon (G-O)	16'	Octaves graves Solo (Sub in V)	
Octave	4'	Grosse Quinte	10'	Octaves aiguës Solo (Super in V)	
Flûte octavante	4'		2/3'		
Nazard harmonique	2 2/3'	Flûte	8'		
Octavin	2'	Octave	8'		
Tierce harmonique	1 3/5'	Bourdon	8'		
Carillon IV	2 2/3'	Grosse Tierce	6 2/5'		
Cornet harmonique V	8'	Quinte	5 1/3'		
Bombarde	16'	Septième	4 4/7'		
Trompette harmonique	8'	Octave	4'		
				I. HAUPTWERK C-c⁴	
				Quintadena	16'
				Principal	8'
				Gedackt	8'
				Gamba	8'
				Octave	4'
				Quinte	2 2/3'
				Superoctave	2'
				Mixtur V	1 1/3'
				Trompette	8'
				II. OBERWERK C-c⁴	
				Gedackt	8'
				Quintadena	8'
				Principal	4'
				Rohrflöte	4'
				Waldflöte	2'
				Quinte	1 1/3'
				Sesquialera II	2 2/3'
				Scharff IV	1'
				Dulcian	8'
				Tremulant	
				PEDAL C-g¹	
				Subbass	16'
				Principal	8'
				Gedackt	8'
				Octave	4'
				Hintersatz IV	2 2/3'
				Fagott	16'
				Trompette	8'
				KOPPELN/COUPLERS	
				II - I	
				I - P	
				II - P	
				Generalspieltische /	
				General Consoles:	
				Hauptwerk - I	
				Hauptwerk - II	
				Hauptwerk - III	
				Hauptwerk - IV	
				Hauptwerk - V	
				Hauptwerk - P	
				Oberwerk - I	
				Oberwerk - II	
				Oberwerk - III	
				Oberwerk - IV	
				Oberwerk - V	
				Oberwerk - P	

5-5 Loading Dock/ Scenery Shipping Path / Loading Flow

5-5-1 East Dock

Recital Hall and Concert Hall use the East Dock for loading and unloading. The dock is equipped with two hydraulic dock leveler that can be adjusted according to the required height.

Dock Dimension

- Dimension: 8.75m (width)
- Clearance: 4.3m height from floor to top
 - 3.8m height from dock to grid area (Truck height limit 4.2m)
- Height from dock to floor: 0.98m
- Stage entrance: minimum 1.95m (width) x 2.2m (height)

※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.

5-5-2 Handling equipment

- 1.5mt Stand-Up Automatic Electric Forklift x1
- 3mt Manual Hydraulic Pallet Jack x1
- * If you need to use the forklift, please contact us.

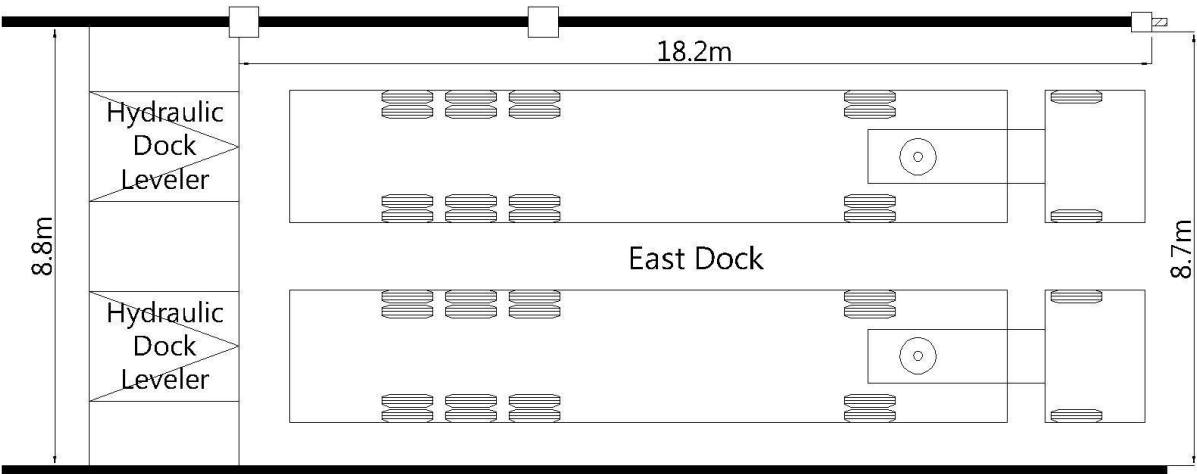


Figure 5.1- East Loading Dock Plan

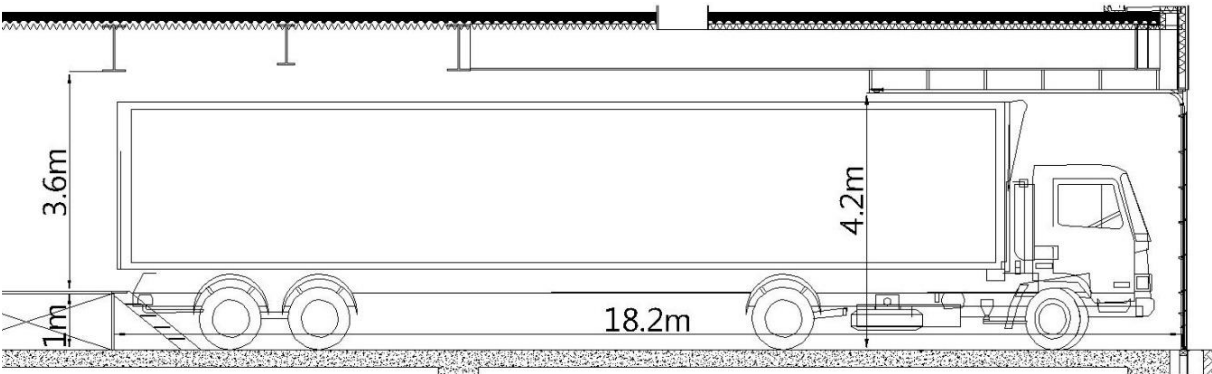
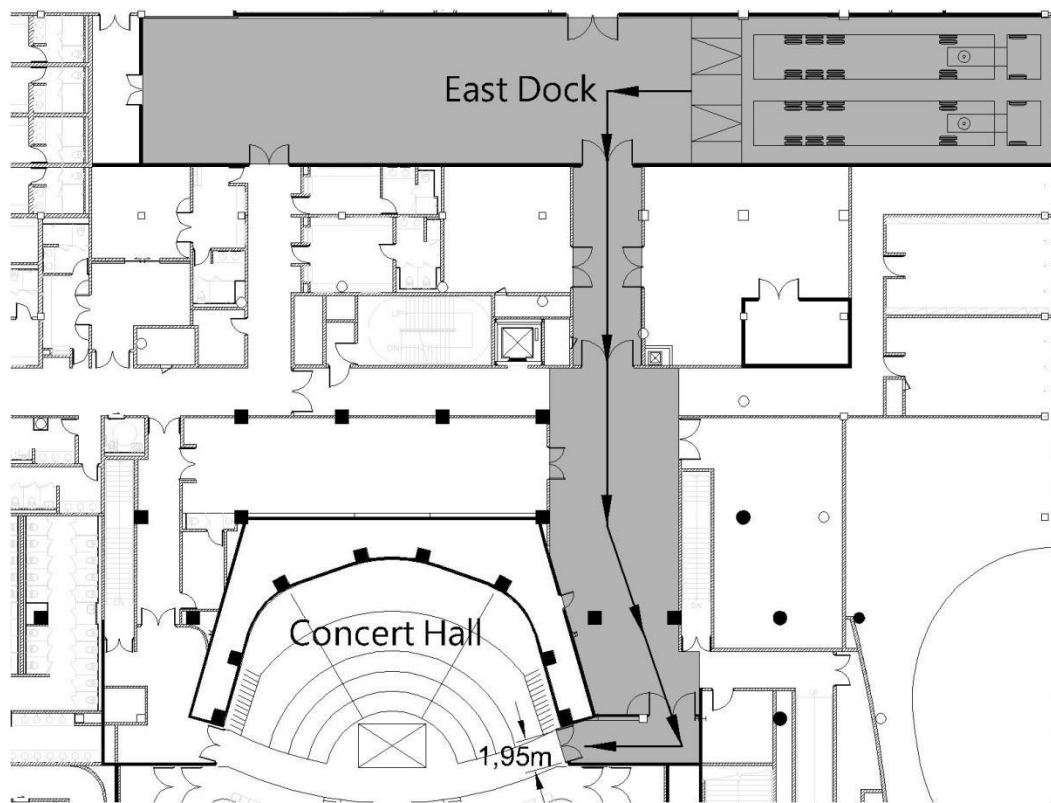


Figure 5.2- East Loading Dock Section

5-5-3 Loading Flow

*Figure 4.3 - Loading Flow*

5-5-4 Hydraulic Dock Leveler

Capacity: 22.6mt

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

Elevation: +/- 30.5cm

Quantity: 2

5-6 Other Facilities

5-6-1 Rehearsal Rooms

There is no rehearsal studio dedicated to the Concert Hall. Additional rehearsal space is limited across the WEIWUYING. There are 13 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
1182	Medium 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	Medium 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	Large 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 6.6×8.8 ×3	Rehearsal Studio-04 use only GreenRoom-01(With dressing room)
1192	Large 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 6.6×8.8 ×3	Rehearsal Studio-05 use only Green Room-02(With dressing room)
B1111	Small Rehearsal Studio-06	87.4x2.3	1. Upright piano, Chair, Music stand, Wooden floor, Sound absorption wall 2. Capacity : 25
B1112	Small Rehearsal Studio-07	5.2x4.4x2.3	1. Chair, Music stand, Wooden floor, Sound absorption wall 2. Capacity : 10
B1113	Small Rehearsal Studio-08	7.2x5x2.7	1. Chair , Music stand, Wooden floor, Sound absorption wall 2. Capacity : 15
B1114	Small Rehearsal Studio-09	5.2x3.7x2.7	1. Chair, Music stand, Wooden floor, Sound absorption wall 2. Capacity : 10
B1115	Small Rehearsal Studio-10	5.2x4.1x2.7	1. Chair , Music stand, Wooden floor, Sound absorption wall 2. Capacity : 10
B1116	Small 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

5-6-2 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. Those for hire between four major theatres. 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	11.9×19.7×3	Basic wood crafts and electrical tools
1165	Costume Shop-01	5.9×10.2×3	Basic facilities for the maintenance of costume; Sewing machine, overlock machine and steam / iron equipment
1181	Costume Shop-02	5.8×11.8×3	
B1022	Costume Shop-03	5.4×3.7×2.5	
1163	Laundry Room-01	5.8×4.9×3	Washing machine, tumble dryers, sink and clothes folding table
B1019	Laundry Room-02	6×8.2×3	