

# TECHNICAL SPECIFICATIONS

ALEXANDER W. DREYFOOS, JR.  
CONCERT HALL



**KRAVIS  
CENTER**  
FOR THE PERFORMING ARTS

WEST PALM BEACH, FLORIDA  
February 22, 2012

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**ALEXANDER W. DREYFOOS, JR.**  
**CONCERT HALL**  
at the  
**RAYMOND F. KRAVIS CENTER FOR THE PERFORMING ARTS**

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West Palm Beach, FL 33401  
MAIN OFFICE (561) 833-8300 (M-F 8:30A-5:30P)  
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**THEATER TECHNICAL STAFF**

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**THEATER TECHNICAL SPECIFICATIONS**

**AUDITORIUM SEATING CAPACITY**

Orchestra	840
Upstage Pit	78
Downstage Pit	<u>86</u>
	1004
Grand Tier	324
Loge	293
Mezzanine	293
Balcony	<u>281</u>
TOTAL SEATING	2195

**LOADING DOCK**

The Loading Dock is located off Iris St. on the north side of the building. There are 3 bays, 2 with loading levelers. Dock is 4' High with 2100 square feet of Receiving Room area. Loading doors are 8'W x 12'H.

**SHOP**

The shop is a full wood shop with welding facilities for aluminum, metal & steel. An air compressor is available.

**TRUCK & BUS PARKING**

Long term truck and bus parking must be prearranged with KCPA Technical Director.

S E A T I N G F O R

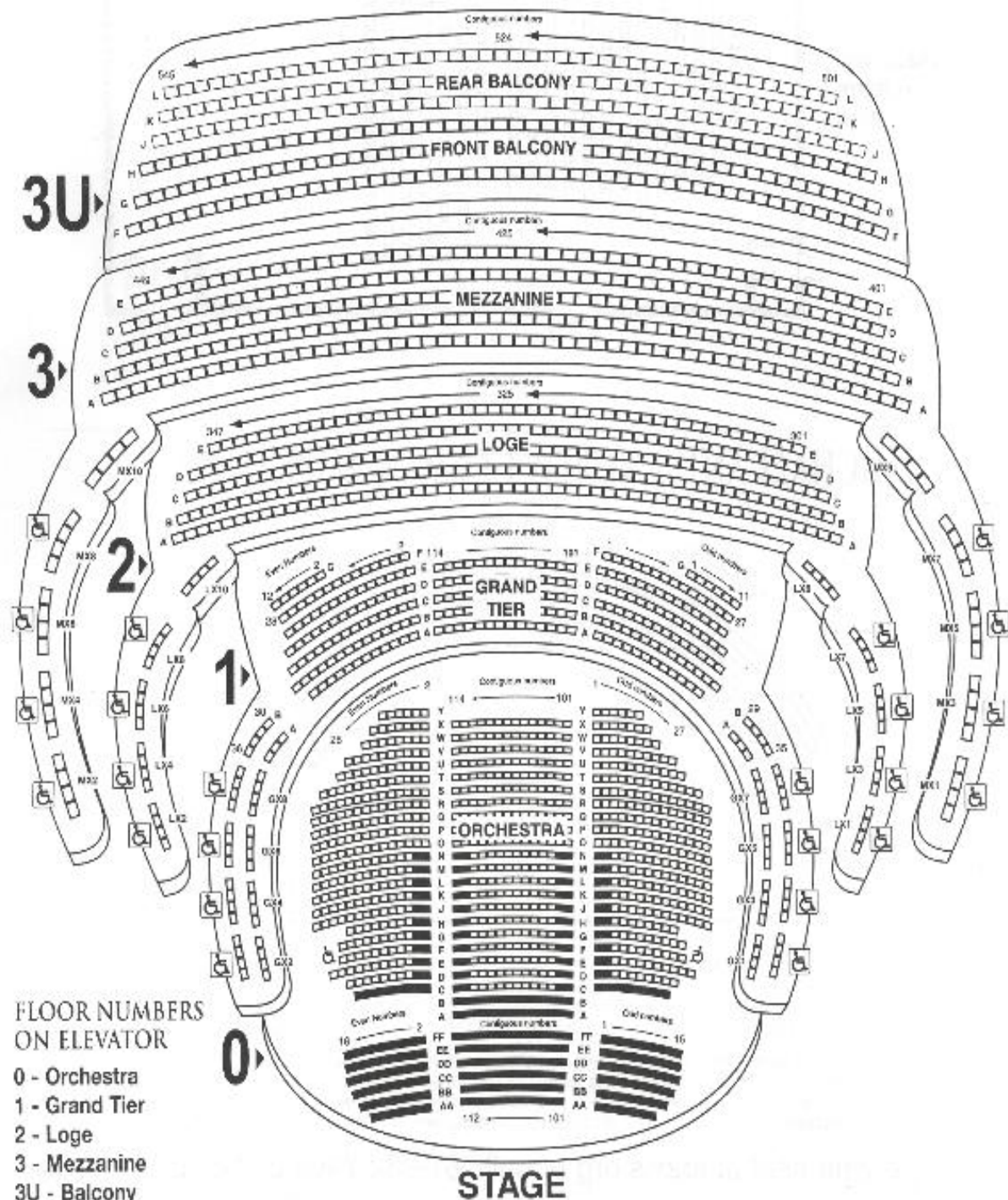
# ALEXANDER W. DREYFOOS, JR. CONCERT HALL

## PREMIUM SEATING

Premium Seating is as follows: Rows AA-FF left, right and center, A-B center only; Row C left and right; Aisles Center Rows C-N and Seats 101 and 102 and Seats 113 and 114; Rows O-N Seats 1 and 3 and Seats 2 and 4.

## SEATING FOR PERSONS WITH DISABILITIES

Accessible seating for persons with disabilities and a companion is available for all shows on a first-come, first-served basis.



## STAGE SPECIFICATIONS

STAGE FLOOR - Tongue & Groove Maple flooring stained black over 3/4" plywood, with joints staggered on 2 x 4's @ 16" centers on 4" x 4" x 1/2" Neoprene Pads. Any damage to floor incurred by production requirements must be restored.

HEIGHT OF GRID	100'
HEIGHT OF PROSCENIUM	40'
Adjustable Proscenium Header	32' to 40' height
WIDTH OF PROSCENIUM	60'
Adjustable Tormentors	44' to 60' width
HEIGHT OF GALLERIES	
Upper loading gallery	95'
Middle loading gallery	84'-6"
Lower loading gallery	64'
Operating gallery/Pin rail SR	35'
Pin rail SL	35'
Upstage crossover/Pin rail	40'
DEPTH OF STAGE (from U.S. edge of proscenium)	60'
WIDTH OF STAGE	120'
WIDTH OF STAGE (center to SL)	60'
WIDTH OF STAGE (center to SR)	60'
CENTER STAGE TO OPERATING GALLERY SR	54'
CENTER STAGE TO PIN RAIL SL	54'
APRON (from U.S. edge of proscenium)	5'
HALF THRUST w/ Upstage Pit only (from U.S. edge of proscenium)	14'-6"
FULL THRUST STAGE w/ Up & Downstage pits (from U.S. edge of proscenium)	24'-3"

## **RIGGING SPECIFICATIONS**

SINGLE PURCHASE, HAND OPERATED LINE SETS WITH COMPENSATORS OPERATED FROM OPERATING GALLERY 35' ABOVE STAGE RIGHT DECK.

NUMBER OF AVAILABLE LINE SETS	91
GRID HEIGHT	100'
TRAVEL DISTANCE	93'
MAX WEIGHT PER ARBOR	1500 lbs.
TOTAL WEIGHT AVAILABLE	120,000 lbs.
LENGTH OF TRUSS BATTENS (all line sets are truss battens)	76' + 3' extensions SL & SR
LENGTH OF LINE SET 91 (concert scrim pipe)	85'
4 COUNTERWEIGHT TAB PIPES (2 per side)	41' OFF SL & SR
4 MOTORIZED TAB PIPES (2 per side)	46' OFF SL & SR

HOUSE CURTAIN IS MOTORIZED. It can be operated from operating gallery SR, pin rail SL, or stage level. It is a maroon guillotine w/ a center split and hangs 3'-3" U.S. edge of proscenium. The speed is variable. At top speed the curtain takes 9 seconds to clear 25'-0" and 10.5 seconds to return. At top speed the curtain takes 10.5 seconds to clear 30'-0" and 11 seconds to return.

GRID IS STEEL SUBWAY GRATING. Wells are available at centerline, 11'-6", 23', 34'-6", 46', 50'-6" SL & SR.

THERE IS A 1 TON CHAIN MOTOR UPSTAGE LEFT TO THE GRID

THERE IS A TWO (2) MAN ELEVATOR LIFT UP RIGHT with stops at the basement, stage level, operating gallery, lower and upper loading bridges (max load is 500 lbs.).

2 - 36' Genie AWP-36 single occupant lift

1 - 32' Genie GS-3246 scissor lift

### **OBSTACLES:**

There are 4 permanent orchestra concert ceiling panels 8'9", 21'9", 34'9" & 47'9" (from U.S. edge of proscenium) hung in plane with the plaster line. The concert ceiling panels take up 18" of space.

There are 4 semi permanent orchestra concert lighting truss battens with mini strips 2'3", 15'3", 28'3", and 41'3" (from U.S. edge of proscenium).

LINE SET 78 DOES NOT EXIST

Line No.	Position	House Hang	Show Hang	Weight
	0'-0"	Upstage Edge of Proscenium		
	0'-6"	Fire Curtain		
	1'-9"	House Valance		
	2'-3"	Concert Lighting #1 –Mini Strips		
	3'-3"	House Curtain		
1	4'-3"	#1 Border		
2	4'-9"	#1 Legs – 23' L/R		
3	5'-3"			
4	5'-9"			
5	6'-3"			
6	6'-9"			
7	7'-3"			
8	7'-9"	Soft Goods Only		
	8'-9"	Concert Ceiling #1		
9	9'-9"	Soft Goods Only		
10	10'-3"			
11	10'-9"			
12	11'-3"			
13	11'-9"			
14	12'-3"	#2 Border		
15	12'-9"	#2 Legs – 23' L		
16	13'-3"	#2 Legs – 23' R		
17	13'-9"			
18	14'-3"			
19	14'-9"			
20	15'-3"	Concert Lighting #2 – Mini Strips		
21	15'-9"			
22	16'-3"			
23	16'-9"			
24	17'-3"			
25	17'-9"			
26	18'-3"			
27	18'-9"			
28	19'-3"			
29	19'-9"			
30	20'-3"	#3 Border		
31	20'-9"	#3 Legs – 23' L/R		
	21'-9"	Concert Ceiling #2		
32	22'-9"	Soft Goods Only		

Line No.	Position	House Hang	Show Hang	Weight
33	23'-3"			
34	23'-9"			
35	24'-3"			
36	24'-9"			
37	25'-3"			
38	25'-9"			
39	26'-3"			
40	26'-9"			
41	27'-3"	<b>Black Out Curtain</b>		
42	27'-9"			
43	28'-3"	<b>Concert Lighting #3 – Mini Strips</b>		
44	28'-9"	<b>#4 Border</b>		
45	29'-3"	<b>#4 Legs – 23' L/R</b>		
46	29'-9"			
47	30'-3"			
48	30'-9"			
49	31'-3"			
50	31'-9"			
51	32'-3"	<b>Black Scrim</b>		
52	32'-9"	<b>House RP (midstage position)</b>		
53	33'-3"			
54	33'-9"	<b>Soft Goods Only</b>		
	34'-9"	<b>Concert Ceiling #3</b>		
55	35'-9"	<b>Soft Goods Only</b>		
56	36'-3"	<b>#5 Border</b>		
57	36'-9"	<b>#5 Legs – 23' L/R</b>		
58	37'-3"			
59	37'-9"			
60	38'-3"			
61	38'-9"	<b>Far Cyc 4'-0"/4 Lamp (2top,2 bot)</b>		
62	39'-3"			
63	39'-9"			
64	40'-3"			
65	40'-9"			
66	41'-3"	<b>Concert Lighting #4 – Mini Strips</b>		
67	41'-9"			
68	42'-3"			
69	42'-9"			
70	43'-3"			
71	43'-9"	<b>#6 Border</b>		



<b>Line No.</b>	<b>Position</b>	<b>House Hang</b>	<b>Show Hang</b>	<b>Weight</b>
72	44'-3"	#6 Legs – 23' L/R		
73	44'-9"	House RP (upstage position)		
74	45'-3"			
75	45'-9"	Black Out Curtain		
76	46'-3"			
77	46'-9"	Soft Goods Only		
	47'-9"	Concert Ceiling #4		
78		DOES NOT EXIST		
79	49'-3"			
80	49'-9"			
81	50'-3"			
82	50'-9"			
83	51'-3"			
84	51'-9"			
85	52'-3"			
86	52'-9"	Border storage		
87	53'-3"	Black Scrim Storage		
88	53'-9"	Tab Storage		
89	54'-3"	Bounce Storage		
90	54'-9"			
91	55'-3"	Concert Scrim		
92	55'-9"	Leg storage		

## **SOFT GOODS INVENTORY**

1	Maroon Guillotine Motorized House Curtain (see page 4 for more information)	
6	Black Velour Borders	20' x 70'
6	Pairs Black Velour Legs	16' x 45'
2	Full Stage, 2 Panel Black Velour Drops	70' x 45'
1	White Translucent CYC	66' x 40'
1	White Bounce Drop	66' x 39'
2	Black Sharkstooth Scrim	66' x 39'
1	"CONCERT" Black Sharkstooth scrim	86' x 39'
4	Side "CONCERT" Black Sharkstooth scrim	25' x 45'
8	Black Velour Tabs	6' x 45'
24	Zetex Protective Skirts	3' x 15'

## LIGHTING SYSTEM

**Console:** ETC Obsession II 1500 Dual Consoles  
Designer's Remote Video Interface unit.  
(2) Hand Held Focus Remotes.

**Dimmers:** Strand CD80 Advanced Electronics  
(1) CD80 Hand Held Programmer

20A Dimmers	566
50A Dimmers	65
20A House Light Dimmers	36
50A House Light Dimmers	1
20A Concert Light Dimmers	16
50A Concert Light Dimmers	8

## POWER DISTRIBUTION

PANEL	PHASE	AMPS	VOLTS	COMMON USE	LOCATION
A	3	400	120/208	LIGHTING	USL WALL-DECK
B	3	400	120/208	LIGHTING	USL WALL-DECK
C	3	400	120/208	LIGHTING	USL WALL-DECK
D	3	100	277/480	THEATER EQUIP	SL WALL-DECK
E	3	200	120/208	THEATER EQUIP	SL WALL-DECK
F	3	200	120/208	SOUND EQUIP	SL WALL-DECK
G	3	100	120/208	COMPANY	USL WALL-GRID
H	3	100	277/480	COMPANY	USL WALL-GRID
I	3	100	120/208	COMPANY	DSR WALL-FORESTAGE GRID
J	3	100	277/480	COMPANY	DSR WALL-FORESTAGE GRID
K	3	200	120/208	SHORE	RECEIVING AREA

## CONCERT LIGHTING

The building has a permanently installed Front of House concert lighting system located above the thrust stage in front of the proscenium. It is a full area wash from directly overhead, made up of 6x16 lekos at 575w. There are 4 built in conductor's specials, and 5 solo specials made up of 6x22 lekos 1000w. They are not colorable or focusable. In addition there are 4 line sets of mini strips (6-8' strips per pipe) to light any orchestra on the main stage upstage of the proscenium.

## **LIGHTING INVENTORY**

### F.O.H. LIGHTING INVENTORY (Permanent Hang)

25	5° ETC Source Four	575w
63	10° ETC Source Four	750w
100	19° ETC Source Four	750w
12	15° to 30° Zoom ETC Source Four	750w
8	ETC Source Four Par (Med)	575w

### ONSTAGE LIGHTING INVENTORY

52	19° ETC Source Four	575w
140	26° ETC Source Four	575w
62	36° ETC Source Four	575w
106	ETC Source Four Par (VN, N, M, W)	575w
13	ETC Source Four Parnel	575w
16	8" Fresnel	2k
10	8" Fresnel	1k
125	Par 64 - VN, N, M, W (mixed)	1k
8	16" Focusing Scoop	1k
13	Par 56 Strips 8'-0" / 12 Lamp / 4 circ.	500w
8	T-3 Strips 6'-8" / 9 Lamp / 3 circ.	500w
8	Far Cyc 4'-0" / 4 Lamp (2 top, 2 bot) / 4 circ	1.5k
24	Ministrip 8'-4" / 40 Lamp / 4 circ. (Permanent Concert Hang)	75w, 12V
10	Mini 10 Work lights	1k

### ADDITIONAL SOURCE FOUR LENS TUBES

12	10° Lens Tube	40	26° Lens Tube	9	19° Lens Tube
13	36° Lens Tube	16	50° Lens Tube		

### HARDWARE

48	Source Four Top Hats	40	Source Four Drop-in Iris'
70	Tophats 7 1/2"	27	Source Four Pattern Holders "A" size
36	Tophats 10" x 10"	75	Source Four Pattern Holders "B" size
62	Donuts 7 1/2" x 7 1/2"	14	7 1/2" Barn Doors
8	Light Ladders 4 rung 2'W x 7'L	16	10" Fresnel Barn Doors
10	21'-0" Boom Pipes	15	10" Barn Doors
10	10'-6" Boom Pipes	50	18" Sidearms
12	Boom Bases 50 lbs.	50	24" Sidearms
4	Rover Booms w/casters adj. 5'-9'	66	30" Sidearms

### "BALLET" TRUSS BOOMS

8	6' sections, circuited, single or double hung
8	10' sections, circuited, single or double hung

### FOLLOWSPOTS

4	LYCIAN 1290 XLT 2K xenon located in F.O.H.
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note: all inventory is subject to availability. Contact Kravis Technical Department for information.

## **ADDITIONAL LIGHTING EQUIPMENT AVAILABLE**

### **CONCERT LIGHTING TRUSS**

- 2 40' sections of double hung Thomas Truss w/ 60 575w Source Four Pars per truss.  
Rigging points w/ permanent motors available downstage of proscenium or from grid with rigged chain motors.

### **ACL LIGHT BARS**

- 4 4' single circuit bar w/ 4 ACL type par64s per bar

### **AUDIENCE BLINDERS**

- 2 Thomas 9 light 3 circuit Audience Blinders

### **MIRROR BALL**

- 1 24' glass mirrorball with 1rpm DC motor

### **DRY ICE FOGGERS**

- 2 AquaFog 3300 Dry Ice Foggers w/ 50' hose

### **HAZER/FOG MACHINES**

- 1 LeMaitre G-300 Fog/Hazer
- 1 CITC DF - 50

### **INTELLIGENT MOVING LIGHTS**

- 10 Martin MAC 700 Profile
- 10 Martin MAC 700 Wash

### **MAIN MOVING LIGHT CONSOLE**

- 1 MA Lighting GrandMA 2 Lite

### **ADDITIONAL LIGHTING CONSOLES AVAILABLE**

- 1 ETC Express 72/144
- 1 ETC Express 48/96
- 1 Hog 1000 Moving Light Console

### **PROJECTION SCREENS**

- 1 Dalite 6' x 9' Front/Rear projection fast fold screen
- 1 Dalite 9' x 12' Front/Rear projection fast fold screen
- 2 Dalite 10.5' x 14' Front/Rear projection fast fold screen

note: all inventory is subject to availability. Contact Kravis Technical Department for information

## **CABLE INVENTORY**

6	10' / 6 circuit Extension Cable w/ VEAM VSC (Socopex compatible)
17	25' / 6 circuit Extension Cable w/ VEAM VSC (Socopex compatible)
18	50' / 6 circuit Extension Cable w/ VEAM VSC (Socopex compatible)
4	Breakouts w/(2) 20A @ 54', 14', 4' (Concert Strips)
4	Breakouts w/(2) 20A @ 44', 34', 24' (Concert Strips)
24	Breakouts w/(1) 20A @ 2', 4', 6', 8', 10', 12'
33	Breakouts w/(1) 20A @ 1'6", 3', 4'6", 6', 7'6", 9'
10	Breakouts w/(2) 20A @ 2', 10', 18'
12	Male Breakouts, even ends
36	2' / 20A Stage Cable
57	5' / 20A Stage Cable
80	10' / 20A Stage Cable
66	15' / 20A Stage Cable
76	25' / 20A Stage Cable
29	50' / 20A Stage Cable
25	100' / 20A Stage Cable
9	25' / 50A Stage Cable
7	50' / 50A Stage Cable
80	2' / 20A Twofers
8	Splitter Boxes (1) 50A In x (3) 20A Out

note: all inventory is subject to availability. Contact Kravis Technical Department for information.

## CIRCUIT LOCATION INFORMATION

20 AMP.	50 AMP.	WORK LIGHT	LOCATION
1-21	567A/B		Far Catwalk
22-53	568A/B-569A/B	WL-1, WL-2, WL-3	Center Catwalk
54-83	570A/B-571A/B		Near Catwalk
84-89	572A		Left Tech Ledge
90-95	573A		Right Tech Ledge
96-101	-		SR Far Box Boom
102-107	-		SL Far Box Boom
108-125	572B	WL-4, WL-5	SL Center Box Boom
126-143	573B	WL-6, WL-7	SR Center Box Boom
144-152	-		Left Seat Box Booms
153-161	-		Right Seat Box Booms
162A-164A	-		Left Box Seat #1
162B-164B	-		Left Box Seat #2
165A-167A	-		Left Box Seat #3
165B-167B	-		Left Box Seat #4
168A-170A	-		Left Box Seat #5
168B-170B	-		Left Box Seat #6
171A-173B	-		Left Box Seat #7
174A-176A	-		Right Box Seat #1
174B-176B	-		Right Box Seat #2
177A-179A	-		Right Box Seat #3
177B-179B	-		Right Box Seat #4
180A-182A	-		Right Box Seat #5
180B-182B	-		Right Box Seat #6
183A-185B	-		Right Box Seat #7
186-201	574A/B-576A/B		Lower Balcony Rail
202-217	577A/B-578A/B		Center Balcony Rail
218-233	579A/B-581A/B		Upper Balcony Rail
234A-236B	582A-583A		Follow Spot Booth
234B-236B	582B-583B		Projection Room

Onstage lighting distribution junction boxes are located in the grid. Distribution is provided by 20A 6-circuit multicables 120' in length, w/ VEAM VSC inline 19 pin connectors. Extension cables and breakouts are available (see inventory list page 11). There are 50A single circuit cables 120' in length w/ 60A stage pin connectors. There are 20A single circuit cables designated for work lights. All measurements are from the plaster line and centerline.

**Cable Drop #1 (SR)**

<u>20 AMP.</u>	<u>50 AMP.</u>	<u>WORK LIGHT</u>	<u>LOCATION</u>
237-242	584A	WL-8	33' OFF RIGHT
243-248	585A	WL-9	10' UPSTAGE
249-254	586	WL-10	
255-260	587		
261-266	588A		
267-272	589A		
273-278			

**Cable Drop #2 (SR)**

<u>20 AMP.</u>	<u>50 AMP.</u>	<u>WORK LIGHT</u>	<u>LOCATION</u>
279-284	-	-	33' OFF RIGHT
285-290			13' UPSTAGE
291-296			
297-302			
303-308			

**Cable Drop #3 (SR)**

<u>20 AMP.</u>	<u>50 AMP.</u>	<u>WORK LIGHT</u>	<u>LOCATION</u>
309-314	-	-	33' OFF RIGHT
315-320			19'6" UPSTAGE
321-326			
327-332			
333-338			

**Cable Drop #4 (SR)**

<u>20 AMP.</u>	<u>50 AMP.</u>	<u>WORK LIGHT</u>	<u>LOCATION</u>
339-344	590-591	WL-11	33' OFF RIGHT
345-350		WL-12	29'6" UPSTAGE
351-356			
357-362			
363-368			

**Cable Drop #5 (SR)**

<u>20 AMP.</u>	<u>50 AMP.</u>	<u>WORK LIGHT</u>	<u>LOCATION</u>
369-374	-	-	33' OFF RIGHT
375-380			36' UPSTAGE
381-386			
387-392			
393-398			



**Cable Drop #6 (SR)**

<u>20 AMP.</u>	<u>50 AMP.</u>	<u>WORK LIGHT</u>	<u>LOCATION</u>
399-404	-	-	33' OFF RIGHT
405-410			44'6" UPSTAGE
411-416			
417-422			
423-428			

**Cable Drop #7 (SR)**

<u>20 AMP.</u>	<u>50 AMP.</u>	<u>WORK LIGHT</u>	<u>LOCATION</u>
489-494	594-609	-	33' OFF RIGHT
495-500			48' UPSTAGE
501-506			
507-512			
513-518			

**Cable Drop #1 (SL)**

<u>20 AMP.</u>	<u>50 AMP.</u>	<u>WORK LIGHT</u>	<u>LOCATION</u>
429-434	-	-	33' OFF LEFT
435-440			12'6" UPSTAGE

**Cable Drop #2 (SL)**

<u>20 AMP.</u>	<u>50 AMP.</u>	<u>WORK LIGHT</u>	<u>LOCATION</u>
441-446	-	-	33' OFF LEFT
447-452			19'6" UPSTAGE

**Cable Drop #3 (SL)**

<u>20 AMP.</u>	<u>50 AMP.</u>	<u>WORK LIGHT</u>	<u>LOCATION</u>
453-458	592-593	WL-13	33' OFF LEFT
459-464		WL-14	29' UPSTAGE

**Cable Drop #4 (SL)**

<u>20 AMP.</u>	<u>50 AMP.</u>	<u>WORK LIGHT</u>	<u>LOCATION</u>
465-470	-	-	33' OFF LEFT
471-476			35'6" UPSTAGE

**Cable Drop #5 (SL)**

<u>20 AMP.</u>	<u>50 AMP.</u>	<u>WORK LIGHT</u>	<u>LOCATION</u>
477-482	-	-	33' OFF LEFT
483-488			44'6" UPSTAGE

**OPERATING GALLERY (SL)**

<u>20 AMP.</u>	<u>50 AMP.</u>	<u>LOCATION</u>
519-522	584B 585B	SL GALLERY

**GALLERY (SR)**

<u>20 AMP.</u>	<u>50 AMP.</u>	<u>LOCATION</u>
523-526	588B 589B	SR GALLERY

## ORCHESTRA PIT

<u>20 AMP.</u>	<u>50 AMP.</u>	<u>LOCATION</u>
527-542	610-613	Pit

## STAGE LEVEL

<u>20 AMP.</u>	<u>50 AMP.</u>	<u>LOCATION</u>
543-554	614	Down Stage Left
555-566	615	Down Stage Right
-	616-622	Up Stage Left
-	623-631	Up Stage Right

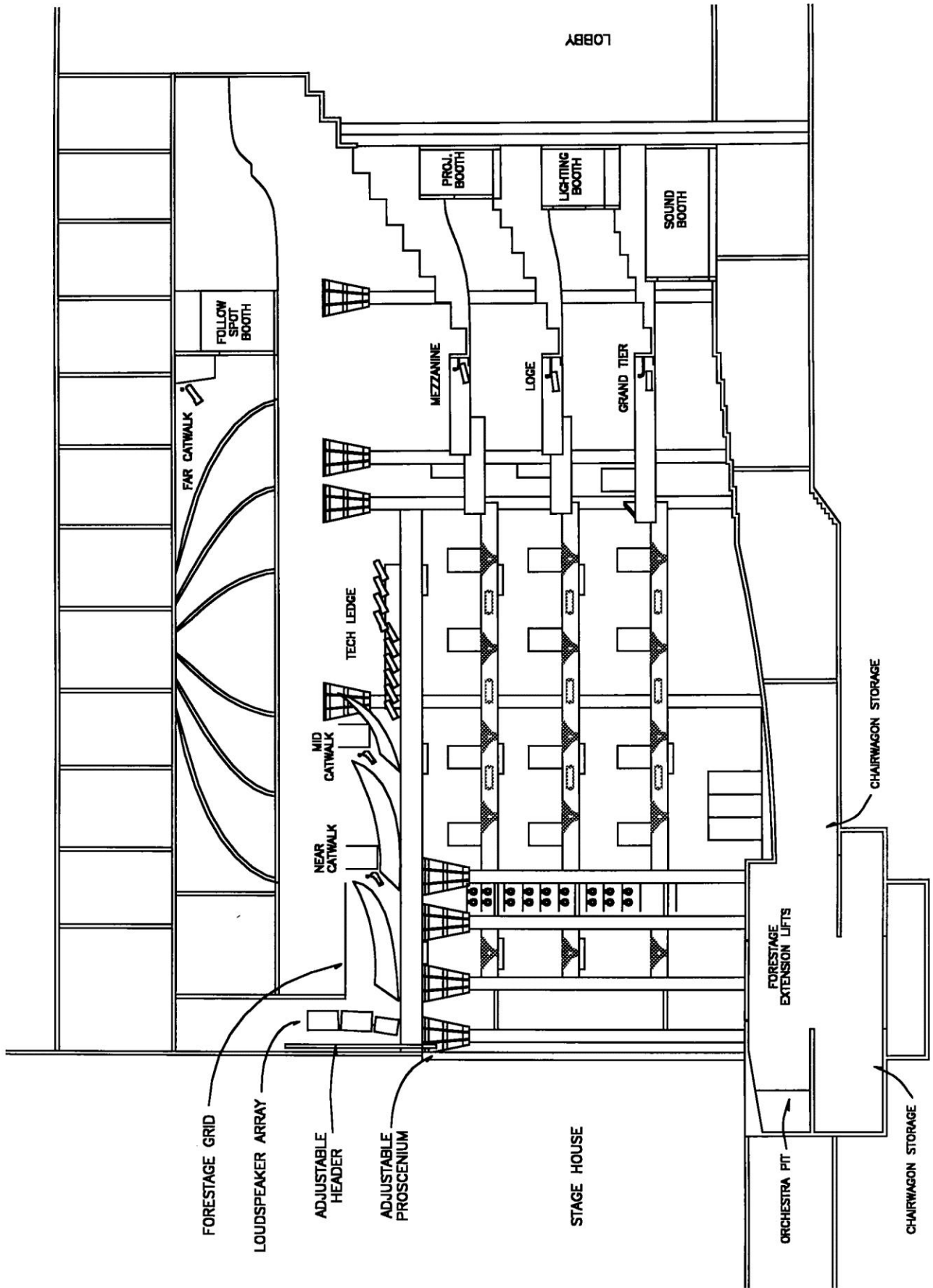
## MISCELLANEOUS

<u>20 AMP</u>	<u>50 AMP</u>	<u>LOCATION</u>
632-667	668	House Lights
671-672, 681-694	673-680	Concert Lights

## **DIMENSIONAL INFORMATION**

Measurements are from the Center Line at the upstage side of the proscenium to the centers of each position. Angles are measured up from the horizontal. Booth measurements are to the front edge of the booth floors.

<u>Position</u>	<u>Horizontal Distance</u>	<u>Elevation</u>	<u>Throw</u>	<u>Throw Angle</u>
Far Catwalk	86'-0"	73'-0"	112'-10"	40°
Mid Catwalk	40'-0"	50'-0"	64'-0"	51°
Near Catwalk	24'-0"	49'-0"	54'-7"	64°
Upper Balcony (Mezzanine)	90'-6"	39'-6"	98'-9"	24°
Center Balcony (Loge)	89'-6"	25'-6"	93'-1"	16°
Lower Balcony (Grand Tier)	89'-6"	13'-6"	90'-6"	9°
Actor's Boxes	14'-0"	21'-6", 32'-0", & 42'-0"	38'-6" L & R of C	
Box Booms	21'-0"	14'-0" to 40'-0"	41'-6" L & R of C	
Tech Ledge	46'-0" to 65'-0"	45'-0"	43'-0" L & R of C	
Follow Spot Booth	93'-0"	61'-0"	111'-2½"	33°
Projection Booth	113'-6"	32'-6"	118'-1"	16°
Lighting Booth	112'-0"	18'-0"	113'-5"	9°
Sound Booth	102'-6"	4'-6"	102'-7"	3°



# FRONT OF HOUSE TRANSFER PANEL

Far Catwalk	Mid Catwalk																Near Catwalk							
6	10	14	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	58	62	66	70	74
8	12	16	23	25	27	29	31	33	35	37	39	41	43	45	47	49	51	53	56	60	64	68	72	76

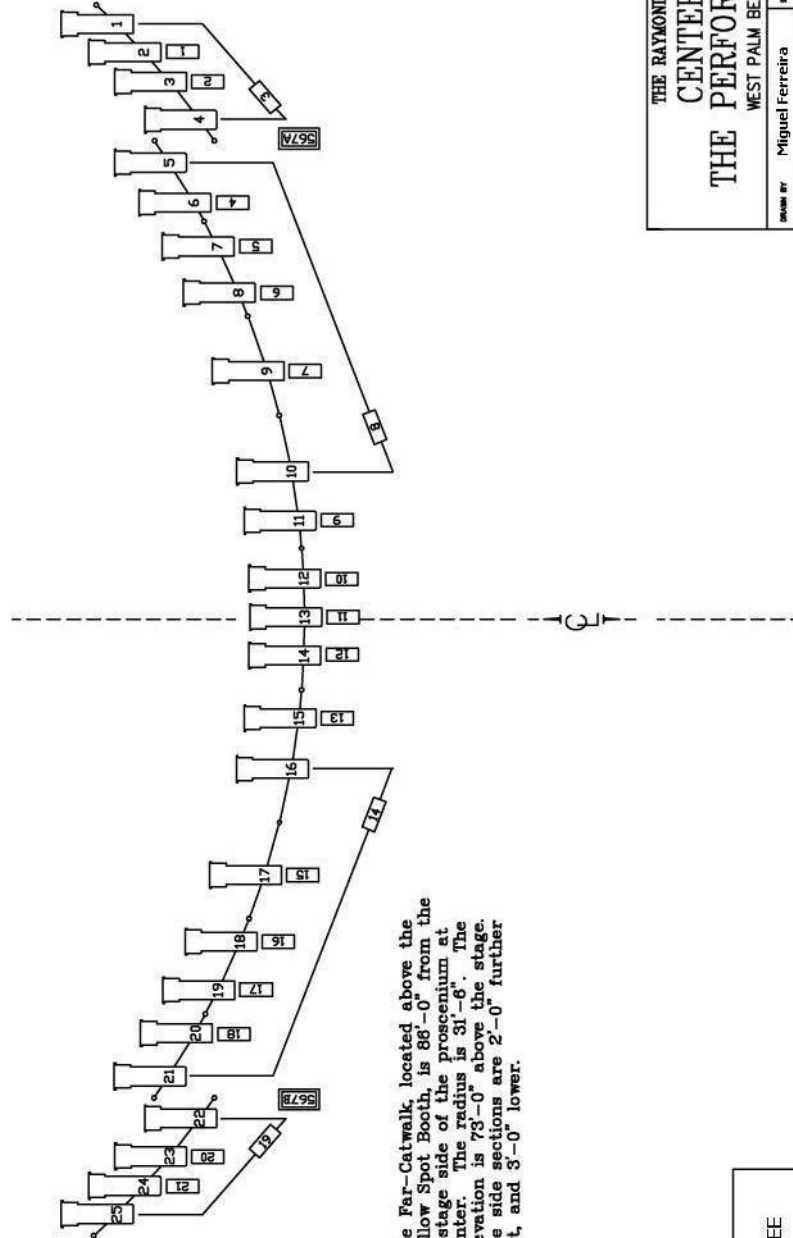
SL Tech SR Tech				SL Box Boom																SR Box Boom					
Ledge		Ledge																		Catwalk		Ledge		Rail	
78	82	97	99	101	103	105	107	109	111	113	116	117	119	121	123	125	127	129	131	133	135	137	139	141	
80	96	98	100	102	104	106	108	110	112	114	116	118	120	122	124	126	128	130	132	134	136	138	140	142	

Grand Tier				Mezzanine															
Balcony Rail		Ledge		Balcony Rail															
143	190	192	194	196	198	203	205	207	209	211	213	215	217	219	224	226	231	233	
189	191	193	195	197	202	204	206	208	210	212	214	216	218	220	225	227	232		

Mid Catwalk		Ledge		Rail				
569	573	578	580	568	572	577	579	581

Box Booms  
Tech Ledges  
Mezzanine  
Balcony Rail

↑  
STAGE

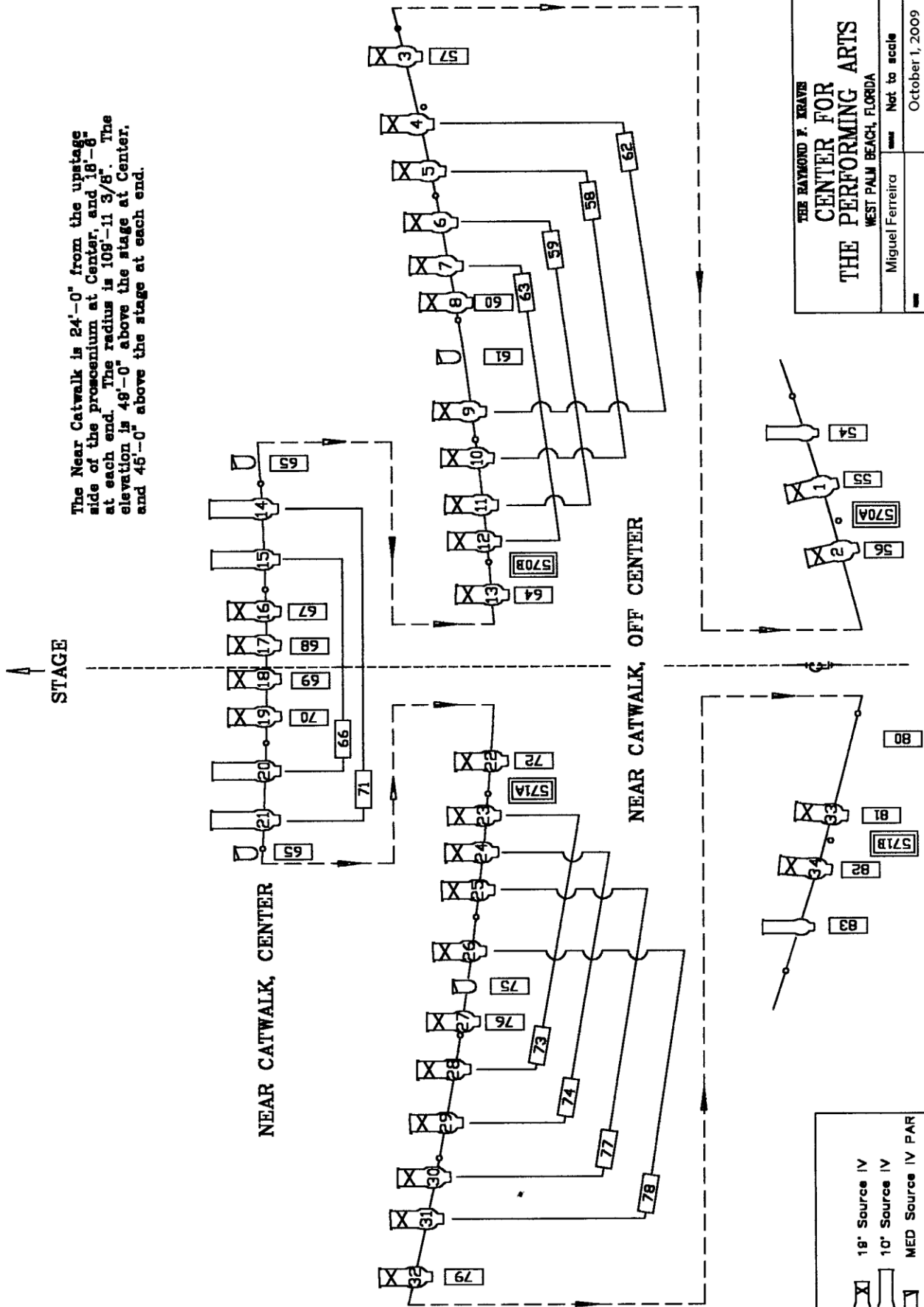


The Far-Catwalk, located above the Follow Spot Booth, is 86'-0" from the upstage side of the proscenium at Center. The radius is 31'-6". The elevation is 73'-0" above the stage. The side sections are 2'-0" further out, and 3'-0" lower.

- ETC S4 5 DEGREE
- 20A CIRCUIT
- 50A CIRCUIT
- VERTICAL POST

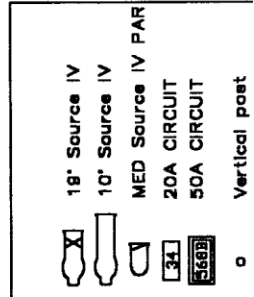
THE RAYMOND F. KRAVIS CENTER FOR THE PERFORMING ARTS WEST PALM BEACH, FLORIDA	
DESIGNED BY	Miguel Ferreira
DATE	October 1, 2009
PROJECT TITLE	FAR CATWALK
SCALE	Not to scale

The Near Catwalk is 24'-0" from the upstage side of the proscenium at Center, and 18'-0" at each end. The radius is 109'-11 3/8". The elevation is 49'-0" above the stage at Center, and 45'-0" above the stage at each end.

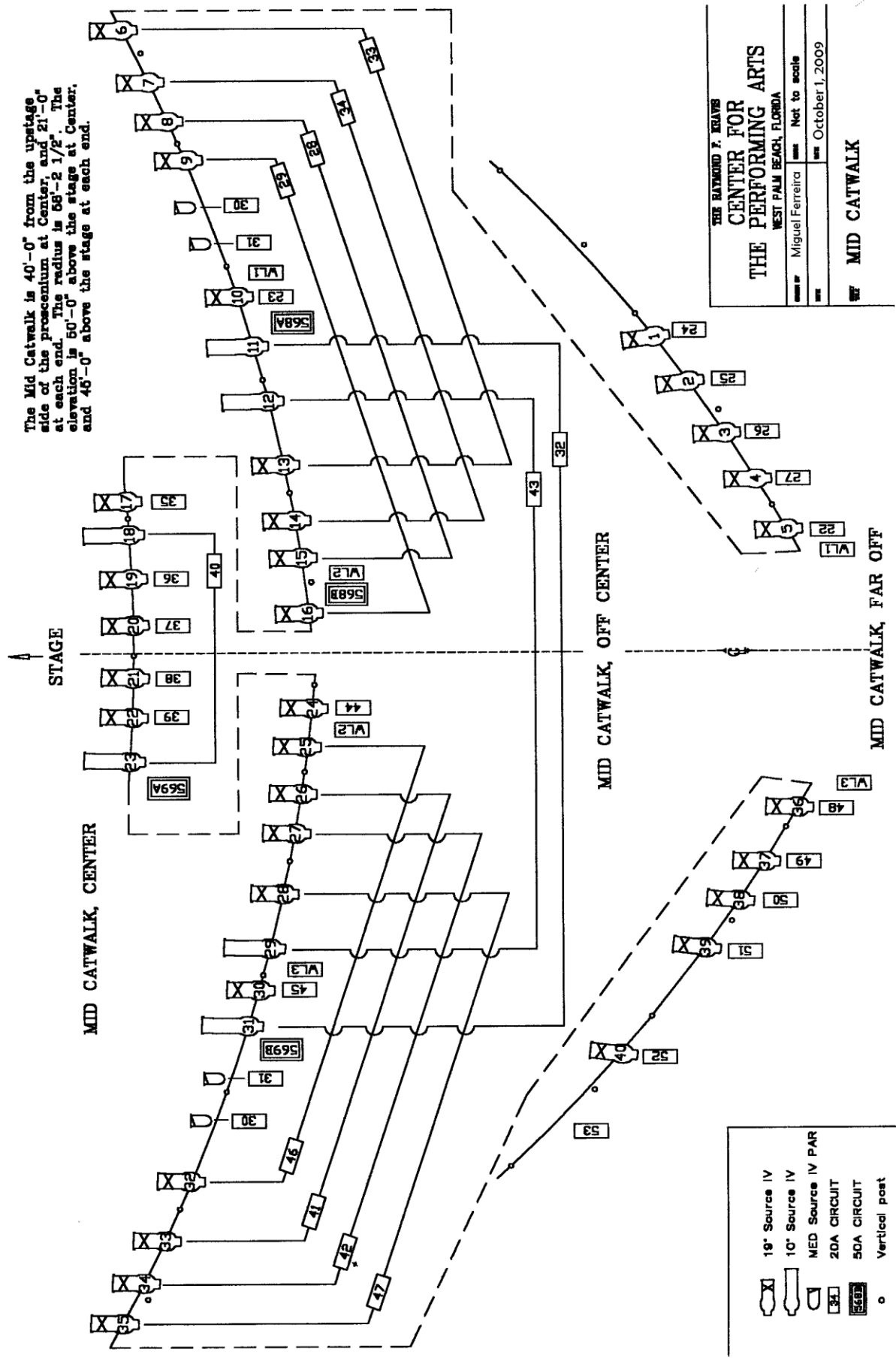


THE RAYMOND F. GRAVES  
**CENTER FOR PERFORMING ARTS**  
 WEST PALM BEACH, FLORIDA  
 Miguel Ferreira Not to scale  
 October 1, 2009  
**NEAR CATWALK**

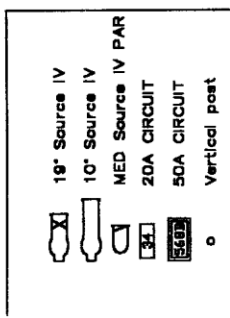
NEAR CATWALK, FAR OFF



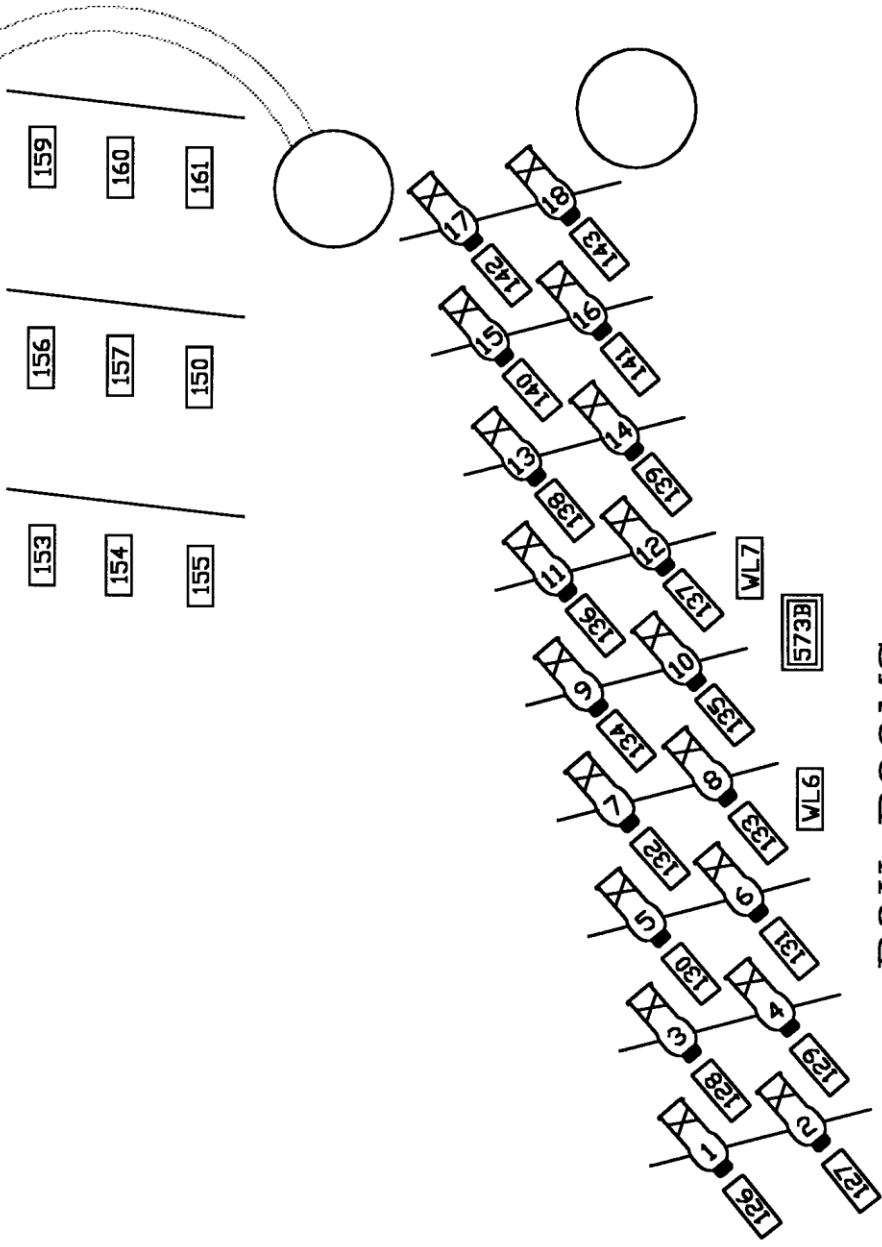
The Mid Catwalk is 40'-0" from the upstage side of the proscenium at Center, and 21'-0" at each end. The radius is 68'-2 1/2". The elevation is 50'-0" above the stage at Center, and 45'-0" above the stage at each end.



THE RAYMOND F. GRAVES  
**THE CENTER FOR ARTS**  
 WEST PALM BEACH, FLORIDA  
 Miguel Ferreira Not to scale  
 October 1, 2009  
**MID CATWALK**



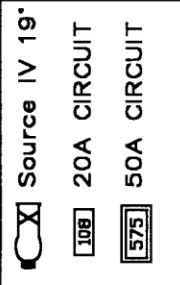
# ACTOR'S BOXES



The Center of the Actor's Box locations is 14'-0" from the upstage side of the proscenium. They are 38'-6" left & right of Center. The elevations are 21'-6", 32'-0" & 42'-0" above the stage.

The Center of the Box Booms is 21'-6" from the upstage side of the proscenium. They are 41'-6" left and right of Center. The elevations range from 14'-0" to 40'-0" above the stage.

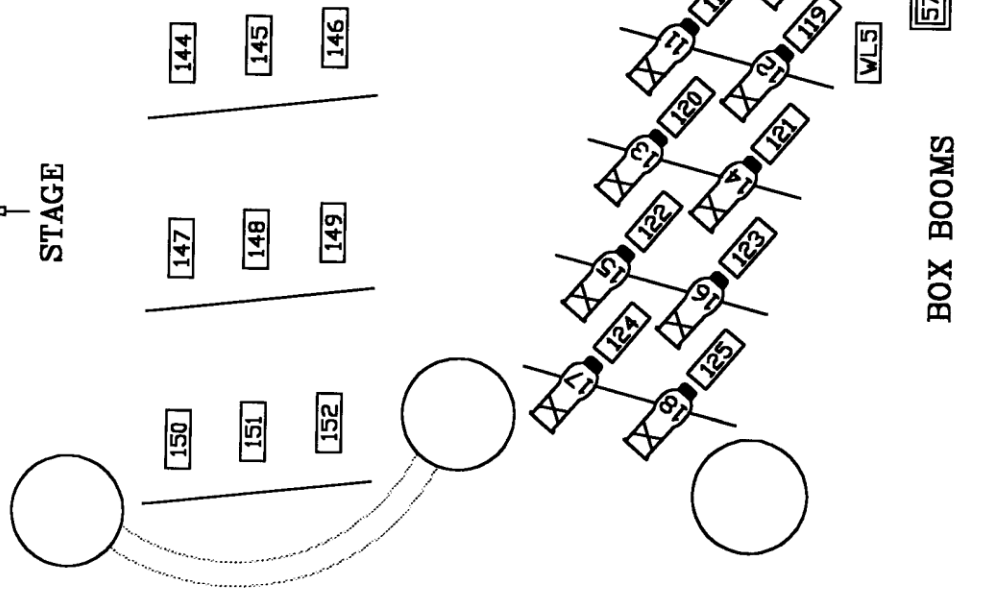
# BOX BOOMS



THE RAYMOND F. GRAVES	
CENTER FOR THE PERFORMING ARTS	
WEST PALM BEACH, FLORIDA	
Miguel Ferreira	Not to scale
	October 1, 2009
BOX BOOMS & BOXES	
STAGE RIGHT	



↑  
STAGE



ACTOR'S BOXES

BOX BOOMS

The Center of the Actor's Box locations is 14'-0" from the upstage side of the proscenium. They are 38'-6" left & right of Center. The elevations are 21'-6", 32'-0" & 42'-0" above the stage.

The Center of the Box Booms is 21'-6" from the upstage side of the proscenium. They are 41'-6" left and right of Center. The elevations range from 14'-0" to 40'-0" above the stage.

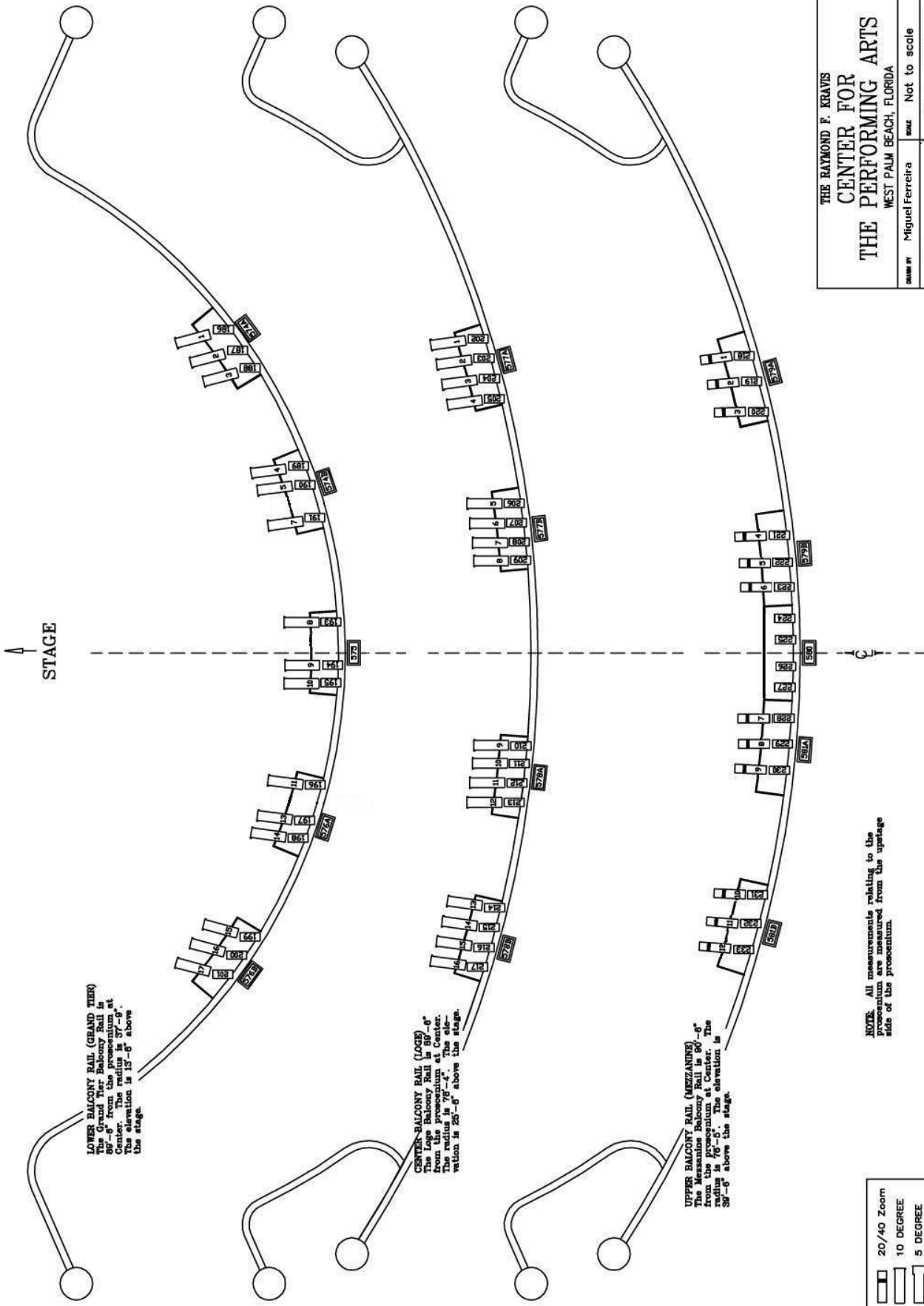
- SOURCE IV 19
- 20A CIRCUIT
- 50A CIRCUIT

THE RAYMOND F. GRAVES	
CENTER FOR THE PERFORMING ARTS	
WEST PALM BEACH, FLORIDA	
BY Miguel Ferreira	NOT TO SCALE
DATE	OCTOBER 1, 2009
ACTOR'S BOXES & BOXES BOX BOOMS & BOXES STAGE LEFT	

**THE RAYMOND F. KRAVIS  
 CENTER FOR THE PERFORMING ARTS**  
 WEST PALM BEACH, FLORIDA

DESIGNED BY	Miguel Ferreira	SCALE	Not to scale
DATE		ISSUE	October 1, 2003

**BALCONIES**



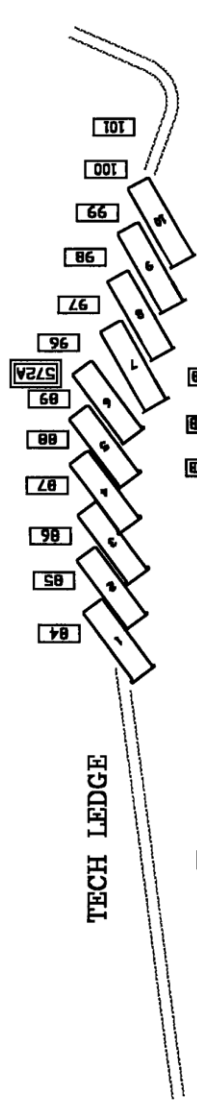
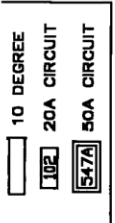
**LOWER BALCONY RAIL (GRAND TIER)**  
 The Grand Tier Balcony Rail is 48'-0" from the proscenium at Center. The radius is 37'-9". The elevation is 13'-8" above the stage.

**CENTER BALCONY RAIL (LOCHE)**  
 The Loche Balcony Rail is 89'-0" from the proscenium at Center. The radius is 76'-4". The elevation is 25'-6" above the stage.

**UPPER BALCONY RAIL (MEZZANINE)**  
 The Mezzanine Balcony Rail is 90'-8" from the proscenium at Center. The radius is 76'-0". The elevation is 28'-0" above the stage.

NOTE: All measurements relating to the elevation are measured from the upstage side of the proscenium.

[Symbol]	20/40 Zoom
[Symbol]	10 DEGREE
[Symbol]	5 DEGREE
[Symbol]	PAR 64
[Symbol]	20A CIRCUIT
[Symbol]	50A CIRCUIT



**UNDER TECH LEDGE**

The near position is 42'-0" S.L. of Center, and 34'-0" from the proscenium. The far position is 43'-11" S.L. of Center, and 55'-0" from the proscenium. The elevation of both is 42'-0" above the stage.

The Tech Ledge is 43'-0" S.L. of Center. Its radius is also 43'-0". The near end measures 48'-0" from the proscenium, and the far end is 65'-0". The elevation is 45'-0" above the stage.

**UNDER MEZZANINE (UPPER BALCONY)**

The near position is 42'-0" S.L. of Center, and 34'-0" from the proscenium. The far position is 43'-7" S.L. of Center, and 55'-0" from the proscenium. The elevation of both is 32'-0" above the stage.

← **STAGE**

**UNDER LOGE (CENTER BALCONY)**

The near position is 42'-0" S.L. of Center, and 34'-0" from the proscenium. The far position is 44'-0" S.L. of Center, and 55'-0" from the proscenium. The elevation of both is 21'-6" above the stage.

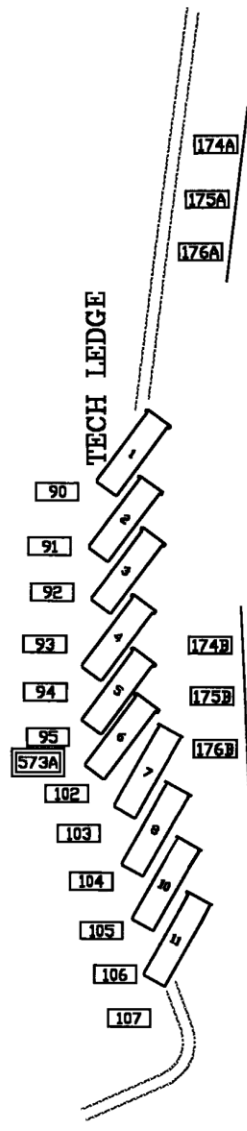
NOTE: All Under Box positions are hung underneath the railings as demonstrated here.

**UNDER GRAND TIER (LOWER BALCONY)**

This position is 38'-0" S.L. of Center, and 34'-0" from the proscenium. The elevation is 10'-0" above the stage.

NOTE: All measurements are taken from the center of each hanging position unless otherwise noted. All measurements relating to the proscenium are measured from the upstage side of the proscenium.

THE RAYMOND F. KRAVIS	
CENTER FOR	
THE PERFORMING ARTS	
WEST PALM BEACH, FLORIDA	
by Miguel Ferreira	Not to scale
date	October 1, 2009
TECH LEDGE AND	
UNDER BOX SEATS S.L.	

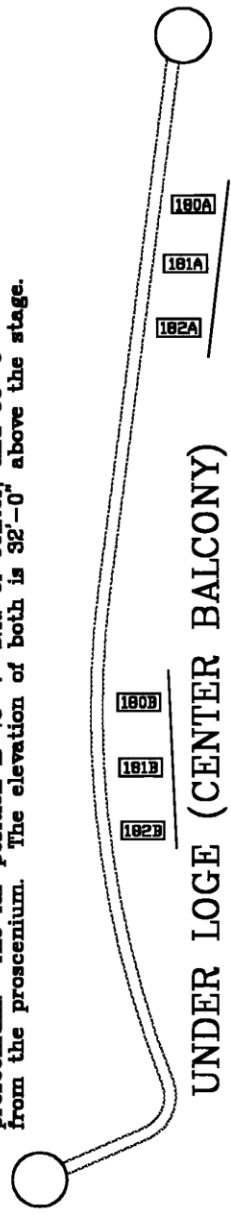


The Tech Ledge is 43'-0" S.R. of Center. Its radius is also 43'-0". The near end measures 46'-0" from the upstage side of the proscenium, and the far end is 65'-0". The elevation is 45'-0" above the stage.

**UNDER TECH LEDGE**  
The near position is 42'-0" S.R. of Center, and 34'-0" from the proscenium. The far position is 48'-11" S.R. of Center, and 55'-0" from the proscenium. The elevation of both is 42'-0" above the stage.

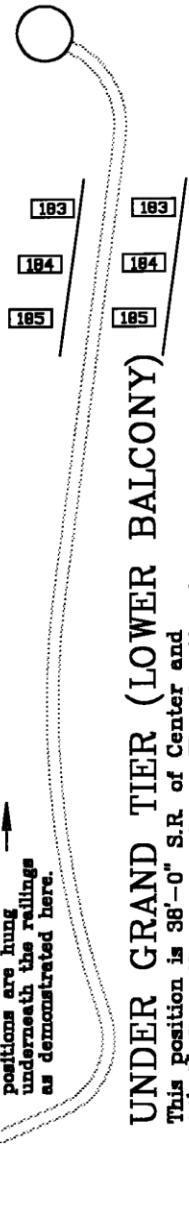


**UNDER MEZZANINE (UPPER BALCONY)**  
The near position is 42'-0" S.R. of Center, and 34'-0" from the proscenium. The far position is 43'-7" S.R. of Center, and 55'-0" from the proscenium. The elevation of both is 32'-0" above the stage.



**UNDER LOGE (CENTER BALCONY)**  
The near position is 42'-0" S.R. of Center, and 34'-0" from the proscenium. The far position is 44'-0" S.R. of Center, and 55'-0" from the proscenium. The elevation of both is 21'-6" above the stage.

NOTE: All Under Box positions are hung underneath the railings as demonstrated here.



**UNDER GRAND TIER (LOWER BALCONY)**  
This position is 38'-0" S.R. of Center and 34'-0" from the proscenium. The elevation is 10'-0" above the stage.

STAGE →

NOTE: All measurements are taken from the center of each hanging position unless otherwise noted. All measurements relating to the proscenium are measured from the upstage side of the proscenium.

THE RAYMOND F. KEAYS	
CENTER FOR THE PERFORMING ARTS	
WEST PALM BEACH, FLORIDA	
BY Miguel Ferreira	DATE Not to scale
DATE	DATE October 1, 2009
TECH LEDGE AND UNDER BOX SEATS S.R.	

## **SOUND and COMMUNICATION SYSTEMS**

**HOUSE CONSOLE:** Yamaha PM5D-RH, 48 Channel with 8 DCA Groups, 24 auxiliaries, 4 Stereo Input Channels, 4 stereo effect returns with 8 different onboard effects, switchable LRC Panning, 4-Band fully Parametric EQ on all channels.

### SOURCE GEAR:

- 1 – Denon DN 770R Cassette Deck
- 1 – Fostex D-5 DAT Machine
- 2 – Sony CDP-D11 CD Players
- 1 - Sony MDS E10 Mini Disc
- 1 – Sony CDR W66 CD burner
- 1 - IRDS ipod Dock

SMAARTLIVE v.5 RTA & Optimization Control System

### MICROPHONES:

- |                   |                    |                                  |
|-------------------|--------------------|----------------------------------|
| 10 Shure SM 58    | 10 Shure SM 57     | 4 Shure Beta 87                  |
| 6 Shure Beta 58   | 2 Shure Beta 57    | 1 Shure SM 91                    |
| 4 Shure SM 81     | 2 Shure U2 Beta 87 | 6 Sennheiser MD 421              |
| 2 Crown PZM-6RB   | 5 Beyer M88        | 4 Shure 565 SD                   |
| 4 AKG C418        | 6 AKG 747          | 6 AKG 451                        |
| 4 AKG 414         | 6 Crown PCC 16     | 12 Shure SM98 with drum hardware |
| 2 Shure Beta 52-A | 4 AKG C-391 B      | 6 Shure MX202 overhead choir mic |
| 4 Shure KSM 27    |                    |                                  |

### WIRELESS MIROPHONES:

- 8 \*Shure UHF
- 8 Shure UHF U1 bodypacks w/ Sennheiser MKE2 lavs
- 8 Countryman Isomax E6 lavs
- 2 Shure UHF U2 Beta 87
- 6 Shure UHF U2 SM58

\*Lavs and SM58/87's share the same frequencies. There is a database of frequencies used as well as frequencies which have had problems.

### DIRECT INPUTS:

- 6 Countryman Type 85 DI's
- 6 BSS Audio AR133 DI's

note: all inventory is subject to availability. Contact Kravis Technical Department for information.

## **MONITOR SYSTEM:**

1 Yamaha PM5D-RH	20 EAW SM 200ih monitors
2 EAW KF 650 side fill tops	2 EAW SB 600 side fill subs
4 JBL SR 4722 (on stage for dance)	4 FOH mixes with graphic EQ from PM5D-RH
2 Channels of Crest 3 way side fill mixes	12 Channels of Crest Audio 2 way mixes
1 Channel of Crest Audio 2 way Cue mix	

## **SPEAKER CONFIGURATION:**

The House has a center cluster, stereo clusters, front fill system, balcony fill system, under balcony fill system, box seat fill system and a concert announce system.

The Center Cluster consists of 7 EAW KF 761 Line Array Cabinets. The cluster is powered by Crest Pro Series amps. The Center Cluster has its own processor and EQ from Lake Contour.

The Left and Right Clusters consist of Meyer Sound, 28 MICA: compact high-power curvilinear array loudspeakers.

The Front Fill system consists of 5 Meyer Sound UPM-1P's. EQ for the Front Fill system is from the Yamaha PM5D.

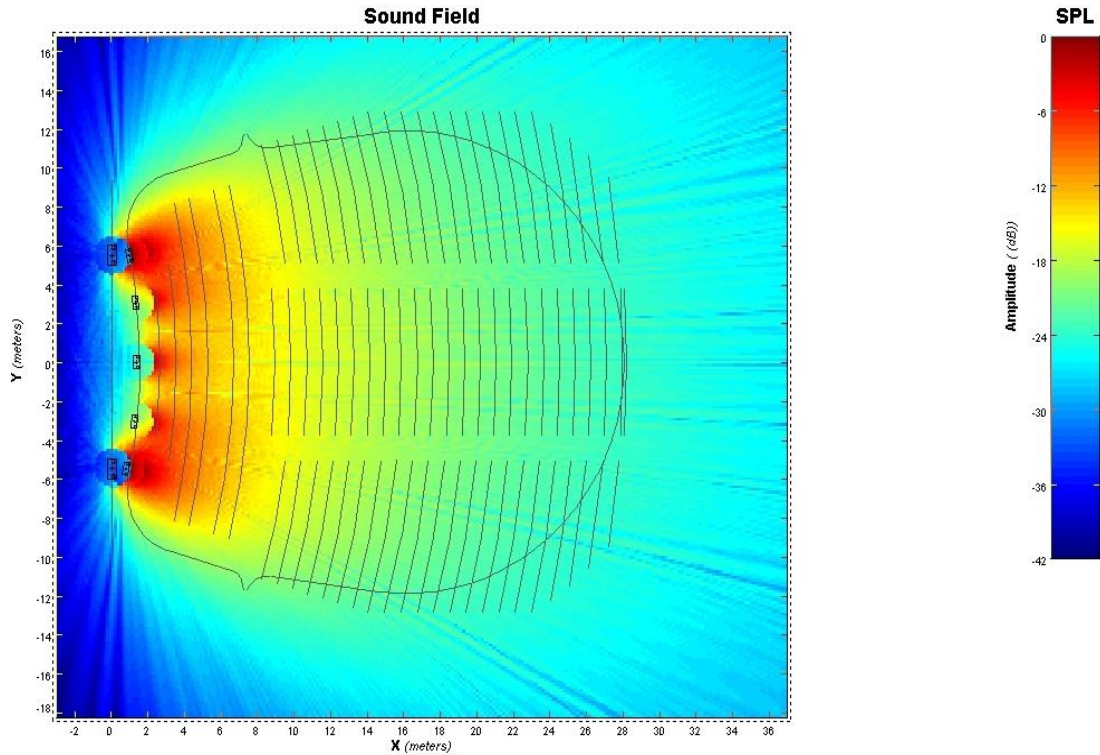
The Box Seat Fill System consists of 24 RCF monitor 5 speaker enclosures. There are 2 speakers per box. Dolby Lake processor.

The Under Balcony Fill system consists of 15 EAW UB12's, 4 EAW JF60's. Powered by Crest Audio power amps. Dolby Lake processor.

Mix position is located in the center at the rear of the Orchestra Level.

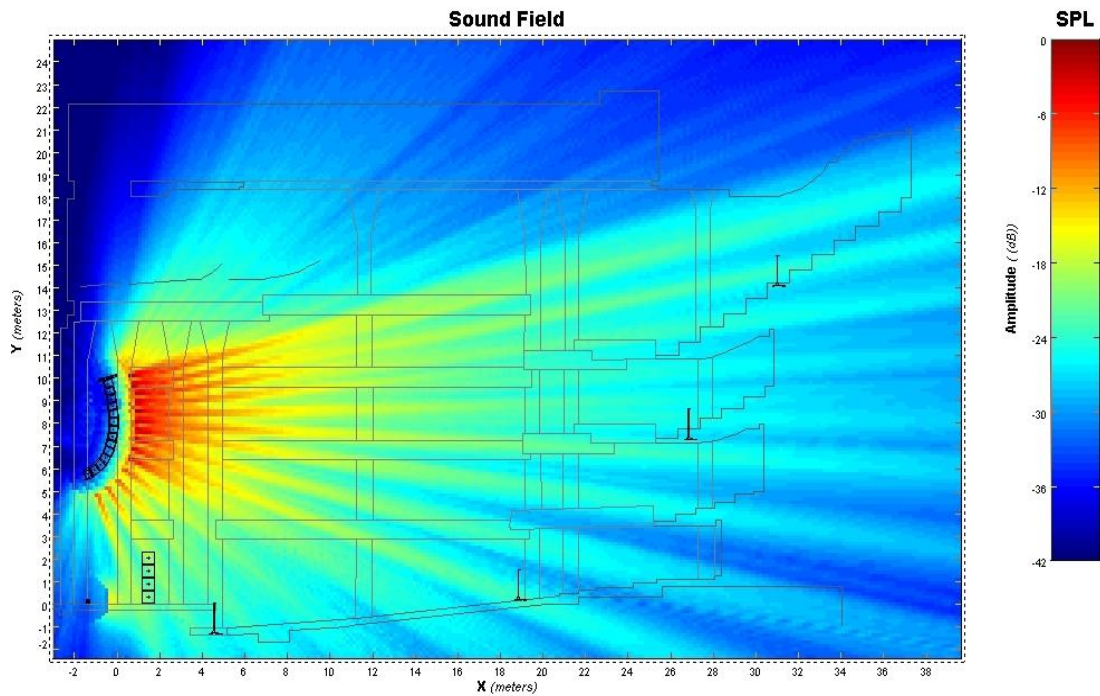
The system has a 56 input Audio Snake with 1 isolated 56 Channel x 50' monitor split downstage left, and 6 patchable dry lines from FOH to stage.

note: all inventory is subject to availability. Contact Kravis Technical Department for information.



Air Attenuation On  
 Temperature = 20.0°C  
 Pressure = 1,013.25 mb  
 Relative Humidity = 50.0%

Relative Bandwidth = 1 octave  
 Center Frequency = 4,000 Hz  
 Start Frequency = 2,832 Hz  
 Stop Frequency = 5,664 Hz



Air Attenuation Off  
 Temperature = 20.0°C  
 Pressure = 1,013.25 mb  
 Relative Humidity = 50.0%

Relative Bandwidth = 1 octave  
 Center Frequency = 8,000 Hz  
 Start Frequency = 5,664 Hz  
 Stop Frequency = 11,328 Hz

Hearing Assistance System: Sennheiser Infrared - 100 units

### Headset Communication System

A 4 channel Clear-Com system is installed throughout the building.

A Clear-Com wireless headset system (only 4 wireless headsets are currently available).

A stage house technical area P. A. Each system operates independently or in any combination.

Full program monitoring and paging functions throughout backstage and dressing rooms is available.

### Cue Light System

Four-circuit cue light system, operable from the stage manager's console DSR, sending to the operating gallery and one circuit from DSR to the orchestra pit.

### Video Monitoring System

Program monitoring of the stage by one CCD digital video camera mounted on the first tier balcony center lighting position and another mounted in the orchestra pit for monitoring the conductor are available for distribution throughout the stage, technical support areas and dressing rooms.

### Stage Manager's Console

Clock/Timer

Audience Recall

4-Channel Clear-Com master station

1 Cue light switch to Orchestra Pit

Paging System (Backstage & Lobbies, as well as Control Rooms)

Stage & Conductor 9" Video Monitors

Stage/House Announce

4 Cue light switches to Operating Gallery

1 Cue light switch spare

### Lecterns

2 Matching Dalite pedestal lecterns with microphones

1 Dalite executive lectern with motorized height adjustment and microphone



## ORCHESTRA AND DANCE EQUIPMENT

### RISERS & PLATFORMS

- 24 Wenger Versalite 3000 Platforms (4' x 8')
  - 2 Wenger Versalite 3000 Platforms (4' x 4')
  - 24 8" leg sets
  - 24 16" leg sets
  - 24 24" leg sets
  - 12 32" leg sets
  - 2 16" or 24" Stairs
  - 2 24" or 32" Stairs
- Chair Stops, Chair Railings & Dress Skirts

### ORCHESTRA CHAIRS

- 100 Black Wenger "MUSICIAN" Chairs
- 9 Black Wenger "CELLO" Chairs
- 100 Wenger Music Stands
- 80 Music Stand Lights
- 8 Bass Stools
- 2 Conductor's Podium & Music Stand

### MISCELLANEOUS

- 20 6' Folding Tables
- 37 Black Folding Chairs

### PIANOS

- 2 9' STEINWAY Concert Grand Model D
- 1 6' YAMAHA Concert Grand C3F
- 2 Studio YAMAHA upright pianos
- 1 9' STEINWAY Hamburg (442 pitch only)

### DANCE FLOOR

- 1 60' x 48' Black Harlequin Studio Marley Dance Floor
- 8 Ballet Barres
- 4 Rosen Boxes

note: all inventory is subject to availability. Contact Kravis Technical Department for information.

## WARDROBE

The wardrobe room is located in the basement level. There are (3) 20 lb. capacity, two speed washing machines and (3) 20 lb. capacity electric dryers, (1) double laundry sink, (2) ironing boards and irons, (2) sewing machines and (3) Jiffy Steamers. There is an elevator in the Receiving Room to access the Basement Level.

## DRESSING ROOMS

### STAGE LEVEL

Conductors Suite SL	1 person w/ toilet & shower	(*)
Dressing Room #1 SL	1-4 people w/ toilet & shower	(*)
Dressing Room #2 SL	1-4 people w/ toilet & shower	(*)
Dressing Room #3 SR	1-4 people w/ toilet & shower	(*)
Dressing Room #4 SR	1-4 people w/ toilet & shower	(*)

### BASEMENT LEVEL

Gosman Dressing Room A	1-6 people w/ toilet & shower	(*)
Gosman Dressing Room B	1-6 people w/ toilet & shower	(*)
Gosman Dressing Room C	1-6 people w/ toilet & shower	(*)

*Note: Gosman Dressing Rooms are only available upon approval.*

Chorus Dressing Room #1 C	12 people w/ toilet & shower	
Chorus Dressing Room #2 C	16 people w/ toilet & shower	
Chorus Dressing Room #3 C	13 people w/ toilet & shower	
Chorus Dressing Room #4 C	13 people w/ toilet & shower	
Chorus Dressing Room #5 C	11 people w/ toilet & shower	
Chorus Dressing Room #6 C	9 people w/ toilet & shower	
Chorus Dressing Room #7 C	12 people w/ toilet & shower	
Chorus Dressing Room #8 C	17 people w/ toilet & shower	
Chorus Dressing Room #9 C	11 people w/ toilet & shower	(*)

## MISC. ROOMS AVAILABLE

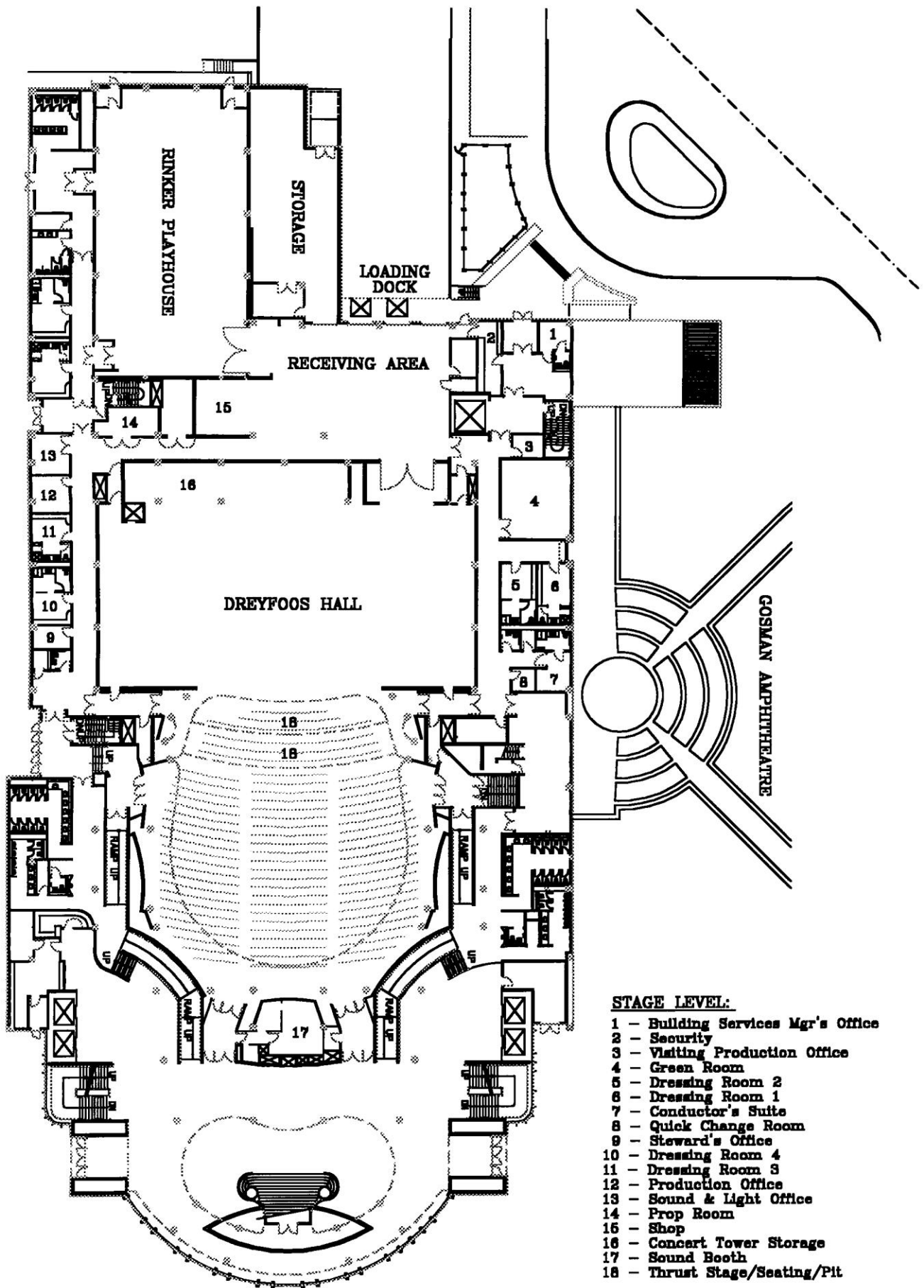
### STAGE LEVEL

Visiting Production Office SL/SR	(*)
Green Room SL	(*)

### BASEMENT LEVEL

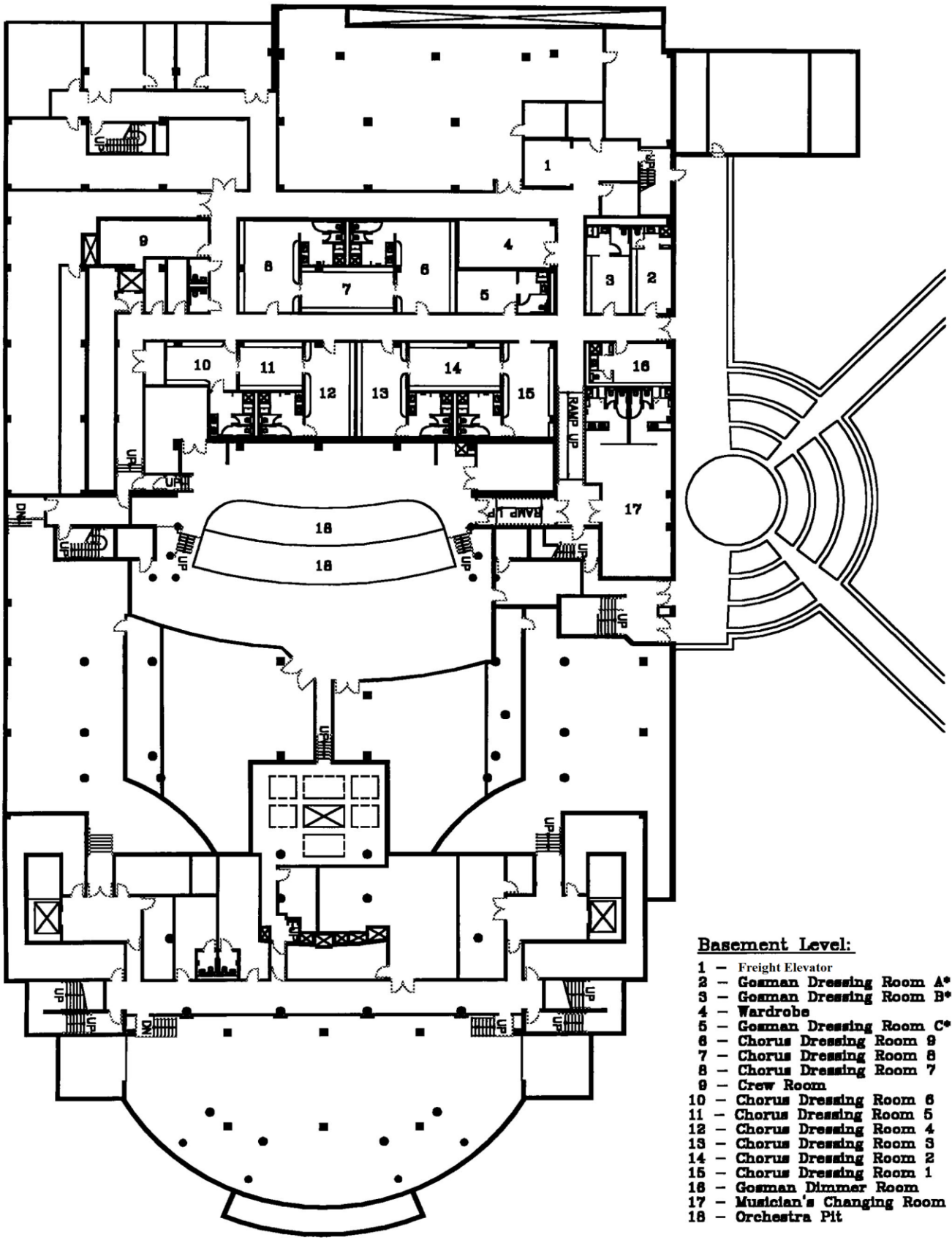
Musician Changing Room

(\*) **TELEPHONE LINES** (2 per Room) are available in designated rooms (\*). The following numbers may be patched to any of the above rooms (\*): Area Code (561)651-8200, 651-8201, 651-8202, 651-8203, 651-8204 and 651-8205.



**STAGE LEVEL:**

- 1 - Building Services Mgr's Office
- 2 - Security
- 3 - Visiting Production Office
- 4 - Green Room
- 5 - Dressing Room 2
- 6 - Dressing Room 1
- 7 - Conductor's Suite
- 8 - Quick Change Room
- 9 - Steward's Office
- 10 - Dressing Room 4
- 11 - Dressing Room 3
- 12 - Production Office
- 13 - Sound & Light Office
- 14 - Prop Room
- 15 - Shop
- 16 - Concert Tower Storage
- 17 - Sound Booth
- 18 - Thrust Stage/Seating/Pit



**Basement Level:**

- 1 - Freight Elevator
- 2 - Gosman Dressing Room A\*
- 3 - Gosman Dressing Room B\*
- 4 - Wardrobe
- 5 - Gosman Dressing Room C\*
- 6 - Chorus Dressing Room 9
- 7 - Chorus Dressing Room 8
- 8 - Chorus Dressing Room 7
- 9 - Crew Room
- 10 - Chorus Dressing Room 6
- 11 - Chorus Dressing Room 5
- 12 - Chorus Dressing Room 4
- 13 - Chorus Dressing Room 3
- 14 - Chorus Dressing Room 2
- 15 - Chorus Dressing Room 1
- 16 - Gosman Dimmer Room
- 17 - Musician's Changing Room
- 18 - Orchestra Pit

**\*Note:** Gosman Dressing Rooms are only available upon approval.

