

Port Huron High School

Performing Arts Center

# Technical Information

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**Contact info**

**Port Huron High School Performing Arts Center**  
 2215 Court Street, Port Huron, Michigan, 48060  
 Phone: (810) 984-2611 x281

**Port Huron Area Schools Administration**  
 Jamie Cain – Superintendent  
 Web: [www.phasd.us](http://www.phasd.us)  
 2720 Riverside Drive, Port Huron, Michigan, 48060  
 Phone: (810) 984-3101

**Denise Selby, PAC General Manager**  
 E-Mail: [dselby@phasd.us](mailto:dselby@phasd.us)

**Brandon Kovatch, PAC Technical Manager**  
 E-Mail: [bkovatch@phasd.us](mailto:bkovatch@phasd.us)

**General**

The Performing Arts Center is a conventional proscenium auditorium built in 2005, with a capacity of 640 seats in two sections. The upper section seats 364 while the lower section seats 276. Special areas for wheelchairs and disabled persons are located on both levels, and an elevator is provided to reach the upper sections. The PAC and all other PHASD facilities are smoke free buildings.

## **Stage**

### **Proscenium with apron**

Floor is hard wood tongue in groove type with dark (not quite black) finish. No drilling or screwing into the deck is permitted. Duct tape is not permitted on any surface in the PAC; gaffer tape is provided by the house.

### **Dimensions**

38'8" from plaster line to back wall

Stage floor is 3'6" above front row floor.

Proscenium opening is 50' wide by 23' high.

Apron is 64' wide and 12' down stage of plaster line at center.

An orchestra pit with 12 removable covers (40' wide by 8' deep) is located within the apron.

The wings extend 20' beyond the proscenium arch.

## **Dressing rooms**

Male and female chorus dressing rooms are located on main floor SL, equipped with wrap-around counter top and shelves, lighted mirrors, ac outlets, folding chairs, sinks, toilets, costume rack, video monitor, and clear-com.

## **Green rooms**

Green rooms A and B are located adjacent to dressing rooms; the "air wall" between the green rooms may be retracted to form one large rehearsal room with approximately the same dimensions as the stage. Green rooms are equipped with video monitors and clear-com. A private cast/crew entrance is located at the north end of the building.

## **Scene shop**

A scenery construction and paint shop with approximately the same dimensions as the stage is located immediately upstage. The shop is equipped with both florescent and halogen lighting, high-bay type ceiling and doors, sink, 220VAC power, and clear-com. The scene shop may be scheduled independently of the auditorium. Alternatively, when clean, the shop may be used for catering, props, costumes, blocking rehearsals, etc. All materials and property must be vacated, and the shop restored to original condition at the end of the usage period.

## Load-in

12' bay doors located at street level open onto the public parking lot on the 24<sup>th</sup> Street side of the building. Lift gates or ramps will be required for trucks. Bay doors lead directly into the scene shop, therefore equipment will need to pass through the scene shop, and make a 90-degree turn onto the stage. Special arrangements should be made for 18 wheel trucks as access to major parking areas may be blocked. We recommend that the cast and crew park their personal vehicles in the Memorial Stadium parking lot and enter through the scene shop door or the cast entrance doors at the north side of the building. **All** persons will need to register at the main office during school hours!

## Rigging

30 single purchase line sets  
7 lift lines per set  
Lock rail on deck at SL  
1500 lb arbor capacity  
27000 lbs of weight in house  
Maximum pipe "out" height is 50' from the deck.  
Loading bridges located at 20' and 44' above the deck  
All pipes are 66' wide and have a minimum "in" height of 1'6" above the deck.

### Normal line set

### schedule

Powered movie screen 25' x 20' in front of proscenium

0.	Solid brown toms	dead hang
6"		
1.	Solid black teaser	non removable
1'		
2.	Main curtain (guillotines and travels)	non removable
1'9"		
3.	Red velour teaser	non removable
2'6"		
4.	1 <sup>st</sup> electric (motorized)	non removable
4'		
5.	Black shark tooth scrim	
5'6"		
6.	1 <sup>st</sup> band shell cloud	non removable
7'		
7.	1 <sup>st</sup> black border	
8'6"		
8.	1 <sup>st</sup> black leg	track non removable
9'3"		

9. Open	
10'	
10. 2 <sup>nd</sup> electric	
11'6"	
11. Open	
12'3"	
12. 2 <sup>nd</sup> black border	
13'9"	
13. Mid stage black traveler	track non removable
14'6"	
14. Open	
16'	
15. 2 <sup>nd</sup> band shell cloud	non removable
16'9"	
16. Open	
18'3"	
17. Open	
19'	
18. 3 <sup>rd</sup> black border	
20'6"	
19. 2 <sup>nd</sup> black leg	track non removable
21'3"	
20. 3 <sup>rd</sup> electric	
22'9"	
21. Open	
23'6"	
22. Open	
24'3"	
23. 3 <sup>rd</sup> band shell cloud	non removable
25'9"	
24. Open	
27'3"	
25. 4 <sup>th</sup> black border	
28'9"	
26. 3 <sup>rd</sup> black leg	track non removable
29'6"	
27. 4 <sup>th</sup> electric (cyc lights)	
31'	
28. Rear black traveler	non removable
33'3"	
29. Open	
34'	
30. White vinyl cyclorama curtain	
34'9"	

## **Special rigging**

There is no walk-on grid; all loft blocks are under-hung from roof I-beams. A telescoping boom lift (not provided) is therefore required to access the steel for chain motors. Additionally, there are several possible rigging points above the audience that can be wrapped for down stage trusses and flown PA rigs.

## House sound

Crown powered, JBL loaded 3 way center cluster (600 watts total)

4-150 watt full range passive monitor circuits with receptacles at SL, SR, US, and orch-pit walls

### FOH console

32 channel Yamaha M2500 console with 14 aux, 8 sub groups, and 8 matrix groups, located in sound room at rear of house

### I/O

10 XLR mic inputs and 4 XLR line returns at SL and SR, 20 inputs in orch-pit

## Audio hardware

Dynamic-vocal mic.....6	Electrovoice N/DYM series
Condenser-omni mic.....5	Audio Technica ES933H
Boundry mic.....3	Audio Technica ES961
Wireless mic.....4	Shure UHF series w Beta 47 and LAV Xmtrs
DI.....2	Proco
Mic stands.....4	Ultimate w booms
Wedges.....8	Electrovoice Sx300 series
FX.....1	Lexicon mx300
CD, cassette, and minidisk playback	

Unfortunately, we have no Dynamics, or EQ processing!

## Portable sound

Accommodation of large consoles is possible, but difficult, as desks must be lifted up the steps to the top of the upper seating section. It is theoretically

possible to squeeze in a heritage 3k/48 with tilt stand. 250 foot snakes and feeders will be necessary to reach FOH. Speakers may be flown or ground stacked, front fills will likely be needed in any case. The suggested SPL limit is 100 db at the console. Traveling PA rigs may not be set up in Handicap accessible or wheelchair seating areas.

## **Clear-coms**

Two Clear-com circuits are available with receptacles in all the critical areas, sound, lights, spots, rail, bridge, SL, SR, pit, galleries, dimmer room, FOH, rear of house, green rooms, dressing rooms, and even the ticket booth! 10 belt-pack units are available.

The stage managers desk at SL is equipped with dressing room/green room coms, as well as lighting console monitor, house video monitor outlet, work lights, and basic house light controls.

## **AC power**

One 208VAC 3-phase, 400-Amp panel SR. Use Cam-Lock type plugs or tails to connect to power.

Note: This panel is connected to the same transformer as dimming racks (along with the rest of the building); sound engineers beware!

An isolated 100-Amp 3-phase panel located in the sound booth (which normally feeds house sound) may be used for sound if absolutely necessary.

## **Lighting control**

### **DMX over Ethernet (ETCnet) with DMX-512 backup lines**

3 Ethernet/DMX converters (DMXnodes) are available providing up to 14 DMX-512 universes.

Sorry no transfer circuits available. Guest lighting designers are welcome to connect their consoles into our DMX-512 ports. The lighting control booth has enough spare room to accommodate even the largest of lighting desks. House lights are controlled via architectural controller, or via DMX-512.

### **Lighting console**



ETC Expression series with ECS upgrade. 400 HTP/LTP channels, 24 submasters x10 pages, 24 channel faders, basic ML functions (no encoders), and > 2000 cue memory.

## **Dimmers**

ETC Sensor dimmer racks with 2.4kw modules, dimmer per circuit configuration. Dry contact (relay type) non-dim module available. 278 dimmer circuits are accessible.

## **Lighting positions**

Note: all dimmable circuits use non locking “in-line” pin type connectors; all “clean” circuits use NEMA 20 amp “Edison type” connectors unless noted otherwise.

### **First FOH gallery**

29 circuits Located 7' downstage of plaster line, 23' above deck level.

### **Second FOH gallery**

41 circuits Located 32' downstage of plaster line, 32' above deck level.

### **Third FOH gallery**

18 circuits Located 61' downstage of plaster line, 32' above deck level.

### **SR and SL “ladder”**

4 circuits each located 0 to 6' downstage from plaster line, 8 to 20' above deck.

### **Box booms SR and SL**

6 circuits each located 23' from plaster line, 8 to 20' above deck.

### **First electric**

31 circuits

### **96 circuits available from drop boxes in the loft.**

### **34 circuits offstage**

### **5 Additional circuits in orchestra pit and lighting control room**

Spot booth has 4 dimmer circuits plus 3 “clean” circuits for follow spots. Follow spot circuits use NEMA L5-20 twist-lock type connectors. Booth is located 95' downstage of plaster line, 32' above deck level.

## Lighting equipment

Ellipsoidals.....	82	ETC Source Four series
50 degree lens barrels.....	8	
36 degree lens barrels.....	24	
26 degree lens barrels.....	34	
19 degree lens barrels.....	26	
10 degree lens barrels.....	6	
Fresnel spots.....	8	Altman 8'' 1kw type with barndoors
Par cans.....	24	ETC Source Four PAR
Cyclorama lights.....	8	Altman Sky Cyc 4-cell 1kw type
Striplights.....	8	Altman Ground Row 3-cell 500w type
Followspots.....	2	Lycian Super arc 100' throw
Booms .....	8	''tall boy'' type with side arms
Gobo slides.....	12	
Drop-in apertures ''donuts'' .....	12	
Drop-in iris .....	4	
End baffles ''top hats''.....	12	
Gel frames.....		Too many!

### Lighting cables

Pin type	100'.....	2
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50' .....6  
 25' .....30  
 10' .....40  
 5' .....30

Edison type 50' .....10

**Color media**

**(gels)**

Lee Filters		Roscolux Gamcolor	
Ambers / Golds	# 01		#104
#290			
		# 02	
# 176		# 08	
		# 12	
		# 17	
		#312	
Reds / Pinks	# 26		
#46		#160	
		# 33	
#106			
		# 35	
#111			
Lavenders	# 52		
#136		#950	
		# 58	
#990			
Blues	# 62		
#120		#848	
		# 65	
#132			
		# 68	
#141			
		# 76	
#161			
		# 80	
#195			

#201

Greens

# 90

#735

#540

# 91

#680

# 94

Grays / Whites

# 97

#65

# 101

#68

# 104

# 111

# 114

We have limited supplies of color media. If your production requires more than a few frames, please contact the Technical manager at least two weeks prior to the load-in date for your show so that we can arrange for the correct amount and type of gel. At this time, we have no gobos or effects devices in our inventory.

## **Video**

25' x 20' movie screen 3' in front of proscenium.

Permanent high-def video projector with VHS and DVD playback located in sound room

Inputs for S-video, composite, RGB, and computer monitor

Podium equipped with VCR/DVD player and A/V inputs.

Sorry no 16mm or 35mm film capability.

## **Special effects**

### **Smoke/fog/bubbles**

The Technical manager will need to verify the type of bubble or fog juice so as to ensure compatibility with building surfaces, smoke alarm system, etc (Rosco and LeMatre products are usually fine).

## **Pyro**

No pyrotechnic devices or open flame (which may include candles, lighters, or matches) is permitted in the PAC at any time unless specific written permission and approval of the device or effect is granted by PHASD administration and all applicable fire authorities. Only qualified and licensed persons shall handle, store, and use pyrotechnic devices.

## **Strobes**

Warning signs must be placed on all entryways if strobe lights or similar effects (which may include certain video displays) are used.

## **Miscellaneous**

Kwai baby grand piano available for extra charge (tuning not included)

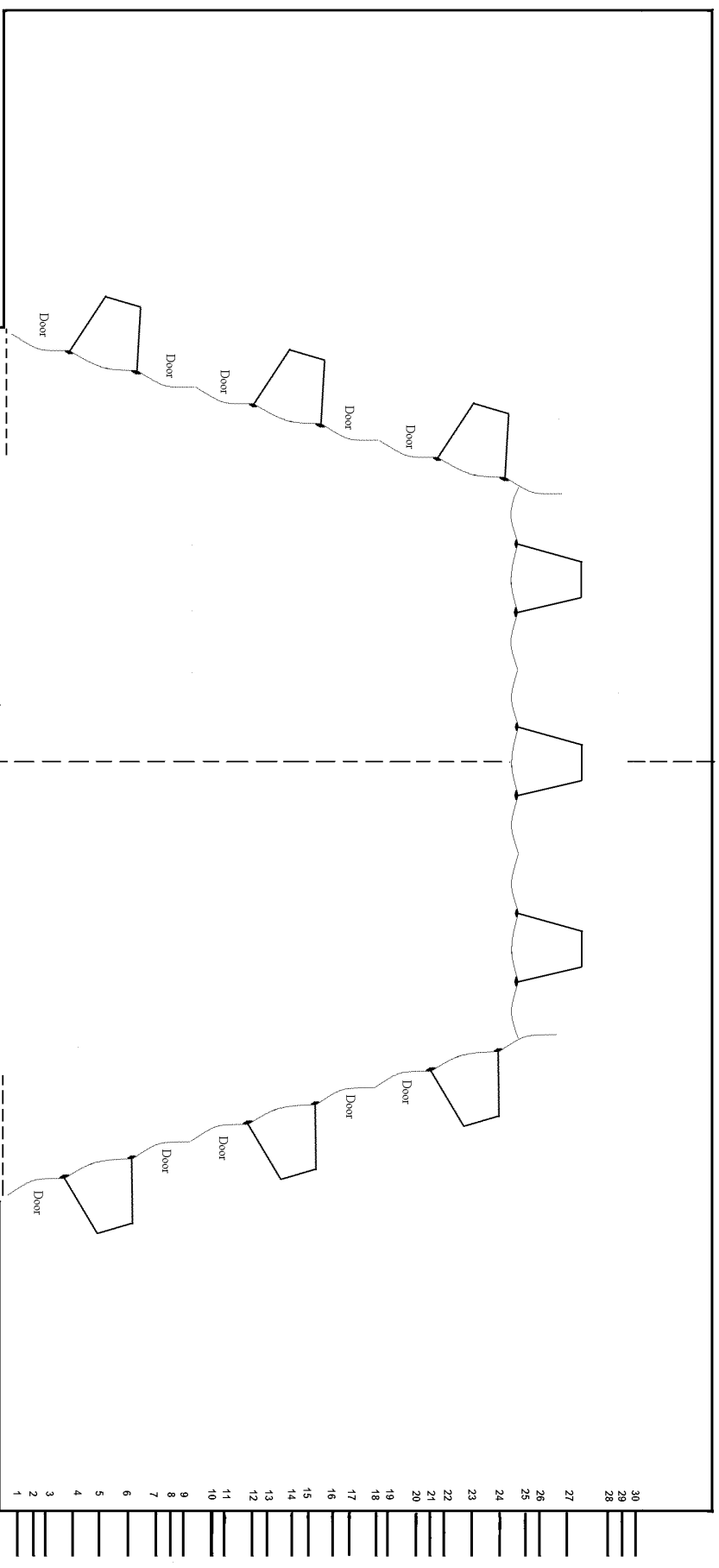
Choral risers may be used with special arrangements (availability not guaranteed)

Wenger "Diva" Acoustical Shell (50' wide x 20' high x 30' deep) is available for choral, opera, band & Symphonic performances. This is a synthetic oak band shell with self-lighting roof sections and six access doors (4 double wide) for performers and piano entrances. 1/3 depth, 2/3 depth, and roof-only configurations are possible.

Lectern equipped with lamp, microphone, clock/timer, AC power, VHS/DVD player, A/V inputs, and computer video input is available upon request.

Elmo overhead document camera

Special arrangements must be made for music chairs, stands, and lights as these are property of the school not the PAC.



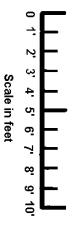
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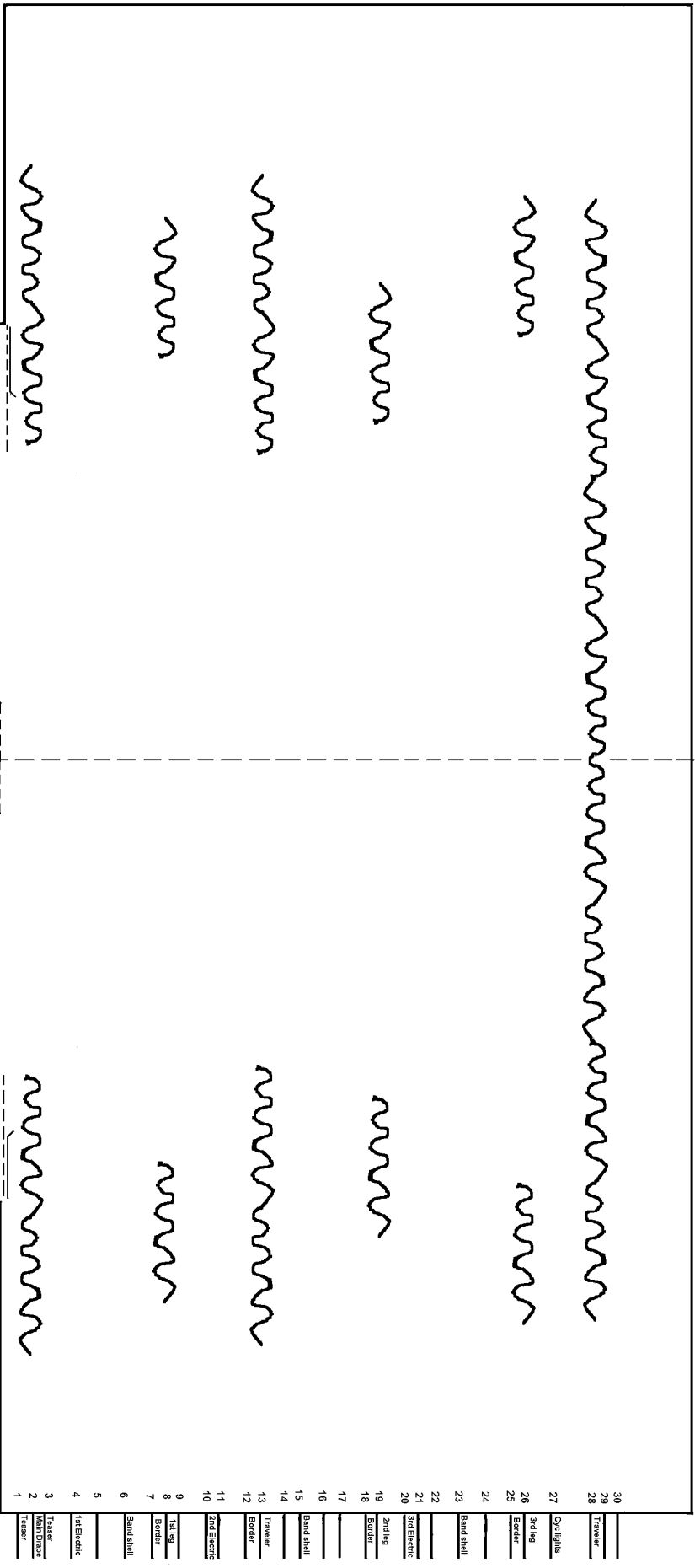
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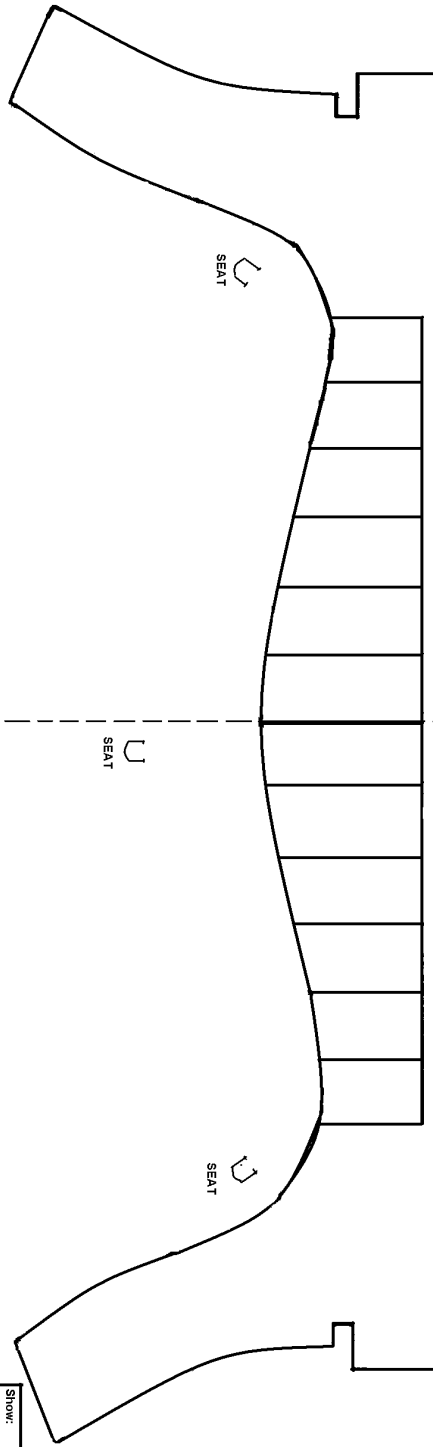
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- 2
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0 1' 2' 3' 4' 5' 6' 7' 8' 9' 10'

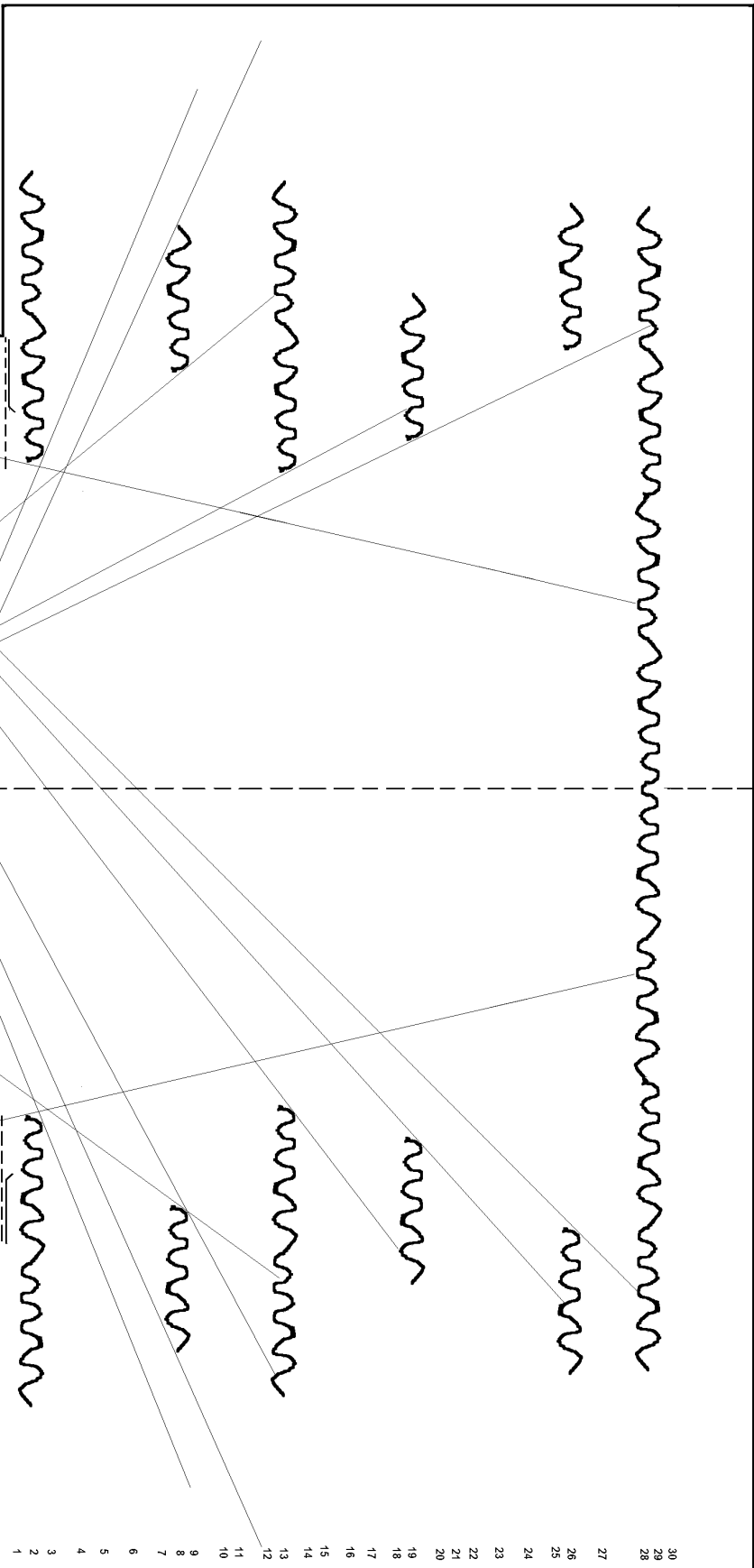
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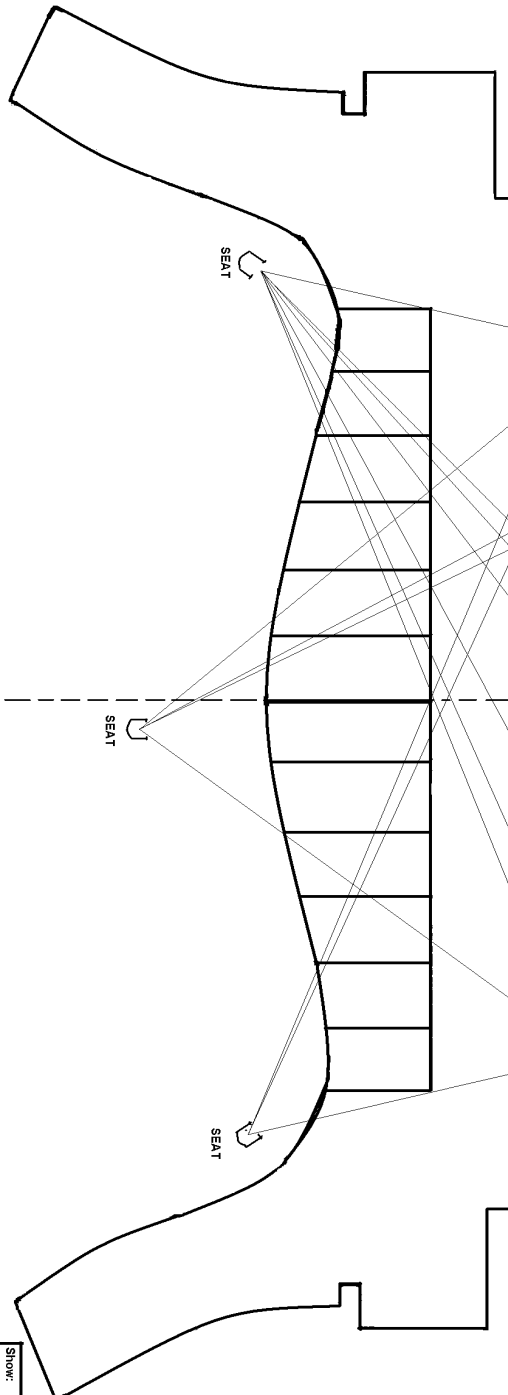
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28 Traveller  
 27 Cyc Lights  
 26 1st Lug  
 25 Bulkhead  
 24  
 23 Bulkhead  
 22  
 21 3rd Bulkhead  
 20 2nd Lug  
 19 Bulkhead  
 18  
 17  
 16 Bulkhead  
 15  
 14 Traveller  
 13 Bulkhead  
 12  
 11 2nd Bulkhead  
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 9 1st Lug  
 8 Bulkhead  
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