CENTENNIAL HALL
AT THE HAVERFORD SCHOOL

Theater
Technical Specifications

450 Lancaster Avenue
Haverford, PA 19041

(rev: 7/25)

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CONTACT INFORMATION

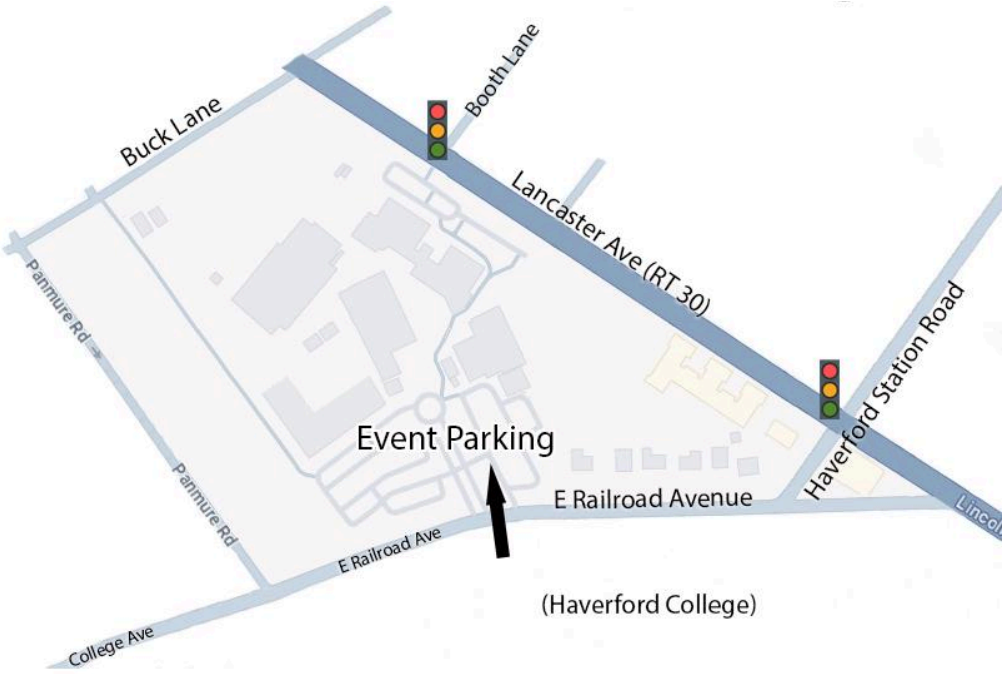
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ADDRESS AND LOCATION

Mailing Address:
450 Lancaster Avenue
Haverford, PA 19041

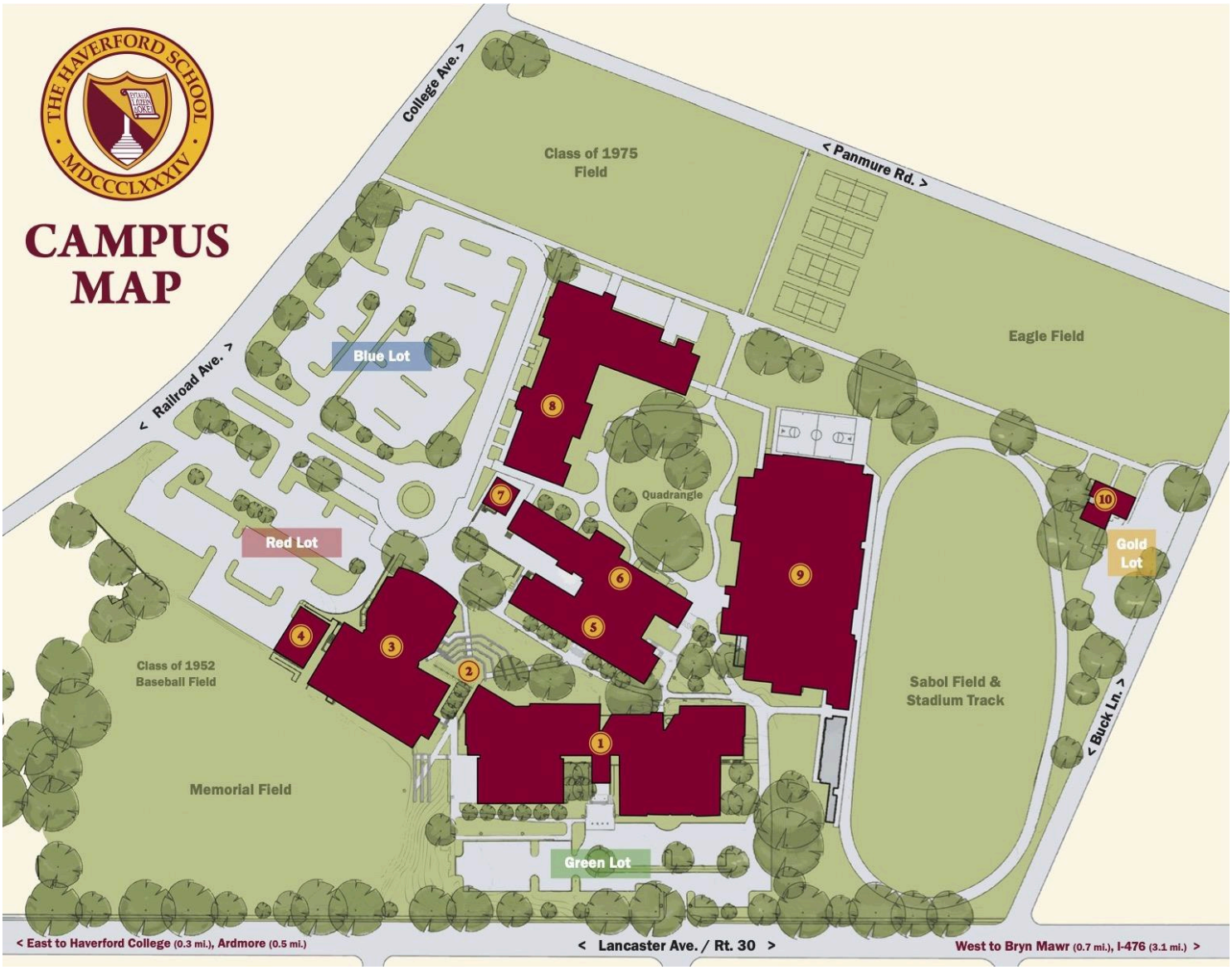
Physical Address (GPS):
27 Railroad Avenue
Haverford, PA 19041



The Haverford School is located on the southwest side of Lancaster Avenue (Route 30) in Haverford, Pa. The School is just minutes from SEPTA rail and bus stops, and sits immediately north of the Haverford College campus. Bryn Mawr is immediately to the north, and Ardmore is immediately to the south.

Vehicle access to Centennial Hall is via the School’s entrance off of Railroad Avenue.

CAMPUS MAP AND PARKING



1. Wilson Hall & Upper School
2. Morgan Family Amphitheater
3. Centennial Hall
4. Facilities & Maintenance Building
5. Crossman Hall (Middle School)
6. Dining Hall
7. Business Office & Fords Store
8. Lower School
9. Athletic Complex & Field House
10. Palmer House & Nostrant Pavilion

DIRECTIONS TO CENTENNIAL HALL

To Haverford by Car:

From Center City Philadelphia: Take the Route 76 West (Schuylkill Expressway) toward Valley Forge. Approximately 4 miles from Center City, take the left lane exit to City Avenue/Route 1 heading south. Travel almost 3 miles (past St. Joseph's University) and look for Saint Charles Seminary on the right; turn right onto Lancaster Avenue/Route 30. Travel 3.3 miles, through Ardmore and past Haverford College (on the left). The Haverford School's Lancaster Avenue entrance is on the left past Railroad Avenue; the main entrance is on Railroad Avenue/College Avenue.

From the Philadelphia International Airport: Exiting the airport, take I-95 south toward Delaware. Exit right onto Route 476, and follow north for 12 miles to the Route 30/St. Davids exit (No. 13); turn right onto Route 30 east. The School is 3 miles ahead on the right side of Route 30.

From the Pennsylvania Turnpike: Exit the Turnpike to the Norristown exit. Take Route 476 south, toward Chester. Exit at the Route 30/St. Davids exit (No. 13); turn right onto Route 30 east. The School is 3 miles ahead on the right side of Route 30.

From West Chester: Follow Route 3 (West Chester Pike) to Route 476 north. Follow 476 north for 12 miles to the Route 30/St. Davids exit (No. 13); turn right onto Route 30 east. The School is 3 miles ahead on the right side of Route 30.

To Haverford by Public Transportation:

SEPTA Regional Rail Line: The Haverford School is a 5-minute walk from Haverford Station on the Paoli/Thorndale Line. The Paoli/Thorndale Line originates in Downingtown and ends in Doylestown, transiting through Center City Philadelphia.

SEPTA Norristown High-Speed Line: The Route 100 train runs from 69th Street Station in Upper Darby to Norristown. There is a stop at Haverford Station, about 0.3 miles (a 7-10 minute walk) west of our campus.

SEPTA Bus 105: SEPTA Bus 105 runs from 69th Street Station in Upper Darby to Ardmore and Paoli. From both directions, there is a stop on Lancaster Avenue in front of the School.

STAGE SPECIFICATIONS

Type: Proscenium

Floor Surface: Flat, Masonite on Pine - Painted Black

Proscenium Opening: 42’-0”w x 22’-0”h

Stage Dimensions:
Stage Left Wall to Stage Right Wall: 72’-0”
Center Stage to Stage Right Wall: 36’-0”
Center Stage to Stage Left Wall: 36’-0”
Plaster Line to Back Wall: 29’-2”
Plaster Line to Orchestra Pit: 8’-6”
Plaster Line to Downstage Center Edge of Apron (Curved): 18’-9”
Apron Width: 50’-0”

Height:
Stage Floor from House Floor: 2’-0”
Grid: 45’-3” batten height

Orchestra Pit (Downstage of Proscenium):
Shape: Curved
Pit Opening: 50’-0”w x 10’-0”d (at center line)
Height: Pit Floor to House Floor: 6’-0”
Height: Pit Floor to Stage Floor: 8’-0”
Pit Floor Space: 70’-0”w x 16’-6”d
Estimated Approximate Capacity: 25-40 musicians
Access to Pit: Basement level, under stage through trap room

Traps:
Location & Sizes: 3 rows of 5 – 4’-0” x 4’-0” square ea., centered on stage - 5’-0” upstage of proscenium
Traps are covered by masonite layer

Obstructions:
SR Wing: Air Conditioning Duct, 20’0” above stage, 3’-0”w x 2’-6”h
SL Wing: Air Conditioning Duct, 20’0” above stage, 3’-0”w x 2’-6”h

Ground Plan available upon request.

RIGGING

Fly System
Single-purchase counterweight system operated at stage level, off stage right.
The loading bridge is at grid level and is accessible via ladder downstage right.

Line Sets
Batten Length: 52’-0”
Quantity: 30
Hardwired Electrics: 5, w/ tails
Maximum Weight per Batten: 750# above pipe weight (electrics); 1200# above pipe weight (others)
Maximum Scenery Height: 23’-3”
Maximum Batten Height: 45’-3”
Battens fly into deck within 4’-6”

Dimensions:
Plaster Line to First Line Set: 1’-9”
Plaster Line to Last Line Set: 27’-1”

Locations of Electrics Battens (from Plaster Line):
Line Set #3: 3’-1”
Line Set #7: 5’-9”
Line Set #18: 13’-1”
Line Set #27: 19’-1”
Line Set #32: 22’-5”

Fire Curtain:
Operation: Motorized, SL Control. Emergency activation downstage left and downstage right.
Location: Just upstage of Plaster Line; the fire curtain line may not be obstructed at any time

Austrian Drape, Gold:
Operation: Motorized, SL Control
Location: Between the fire curtain and Line Set #1

Main Curtain, Maroon:
Dimensions: 52’-0”w x 22’-10”h, split at center
Operation: Manual; Guillotine or Traveler
Location: Line Set #2, 2’-5” US of Plaster Line

Black Traveler:
Dimensions: 52’-0”w x 22”10”h, split at center
Operation: Manual; Guillotine or Traveler
Location: Line Set #38, 26’-5” US of Plaster Line

SOFT GOODS INVENTORY

Description	Quantity	Width	Height
Burgundy Velour Panels (Main Curtain)	2	25’-0”	24’-0”
Black Velour Panels (FSB and Traveler)	2 pair	26’-0”	24’-0”
Burgundy Velour Border	1	52’-0”	10’-0”
Black Velour Borders	6	52’-0”	6’-0”
Black Velour Legs	6 pair	13’-0”	24’-0”
Natural White Muslin Cyc	1	52’-0”	25’-0”

Refer to the Line Set Schedule for quantities and rep locations of draperies actively in use. Soft goods may be added, moved, or removed (exceptions: burgundy border, burgundy traveler, and black traveler) as needed.

Stage section available upon request.

LINE SET SCHEDULE

LS #			Distance from Plaster	Item	Notes
F	*			Fire Curtain	Motorized
A	*	+		Austrian Drape	Motorized
1	*	+	1’9”	Burgundy Border	
2	*	+	2’5”	Burgundy Traveler	
3	*		3’1”	#1 Electric	
4			3’9”	Empty	
5			4’5”	Rear Projection Screen	
6		+	5’1”	#1 Black Legs	
7	*		5’9”	#2 Electric	
8			6’5”	Empty	
9			7’1”	No Line Set	
10			7’9”	Empty	
11			8’5”	No Line Set	
12		+	9’1”	#1 Border	
13		+	9’9”	#2 Black Legs	
14			10’5”	No Line Set	
15			11’1”	Empty	
16			11’9”	Empty	
17			12’5”	No Line Set	
18	*		13’1”	#3 Electric	
19			13’9”	Empty	
20			14’5”	No Line Set	
21		+	15’1”	Full Stage Blackout	
22		+	15’9”	#3 Black Legs	
23			16’5”	No Line Set	
24			17’1”	Empty	
25			17’9”	Empty	
26		+	18’5”	#4 Black Legs	
27	*		19’1”	#4 Electric	
28			19’9”	Empty	
29		+	20’5”	#2 Black Border	
30		+	21’1”	#5 Black Legs	
31			21’9”	No Line Set	
32	*		22’5”	#5 Electric	
33			23’1”	No Line Set	
34			23’9”	Empty	
35			24’5”	No Line Set	
36			25’1”	Empty	
37			25’9”	Empty	
38	*	+	26’5”	Black Traveler	
39		+	27’1”	Cyclorama	
40			27’9”	No Line Set	

Key: *- piece cannot be moved
+ - soft goods

LIGHTING

Onstage Positions:
Electric Battens: Qty 5
Circuit Quantity: 20 on #1 ELE, 14 on all other ELE

FOH Catwalk:
Distance From Stage: 30'-0"
Circuit Quantity: 24

FOH Control Booth:
Distance From Stage: 79'-0"

Dimmable Circuits
Circuit Quantity: 122 - usable circuits ; 9 - house lights --- 131 total (dimmer per circuit)
Refer to Lighting Circuit Chart (below) and Circuitry Ground Plan (page #12)

Control Equipment
Lighting Console: ETC Ion 1024 (EOS v3.x)
DMX Inputs, 2 Universes: FOH Control Booth, DSL Wall (or middle of house via DMX extension)
House Light Control: via Console or ETC Unison Control Station
Unison Locations: FOH Control Booth, Backstage on DSL Wall, Front of House

ETC Sensor Lighting Control System
Location: Basement
Total Amps: 400
Dimmer Quantity/Capacity: 200* @ 2.4K

ETC Unison Control System
Location: Basement
Total Amps 200

LIGHTING CIRCUIT CHART

Position	Circuits (SL - SR)
1st Electric	1 thru 20
2nd Electric	36 thru 49
3rd Electric	65 thru 78
4th Electric	94 thru 107
5th Electric	108 thru 121
DS Floor Pocket	146 - 149 (mirrored both sides)
Mid-Stage Floor Pocket	150 - 153 (mirrored both sides)
US Floor Pocket	154 (mirrored both sides) 155 -157 (SL) 158 – 160 (SR)
DS Proscenium Wall	161 - 164
USL Back Wall	165
FOH Catwalk	145 – 122 (SL - SR)
Apron Downlights	166
Orchestra Pit Circuits	167 & 168
House Lights	193 -200

LIGHTING (CONT'D)

Instruments:

Size & Type	# Available	Lamp	Color Frames	Notes
ETC Source Four Body	66	HPL 575/750		
ETC Source Four Body	19	HPL 575		575w Only
19° ETC Source Four Lens Tube	30		6.25" x 6.25"	
26° ETC Source Four Lens Tube	33		6.25" x 6.25"	
36° ETC Source Four Lens Tube	35		6.25" x 6.25"	
50° ETC Source Four Lens Tube	2		6.25" x 6.25"	
ETC Source Four Parnels	18	HPL 575/750	7.5" x 7.5"	
ETC Source Four Par	10	HPL 575/750	7.5" x 7.5"	VNSP/NSP/MFL/WFL
ETC ColorSource Par DB	15	LED	7.5" x 7.5"	MFL/WFL Round
Altman Spectra Cyc 200	4	LED		
Martin Mac 700 Profile	2	HTI 700		
High End Studio Spot 575	2	MSR 575/2		
Altman Luminator Follow Spot	2	FLE		FOH Catwalk
Osram Kreios FLX LED Flood	15	LED		Work Lights

With some exceptions, all fixtures are equipped with stage-pin connectors.

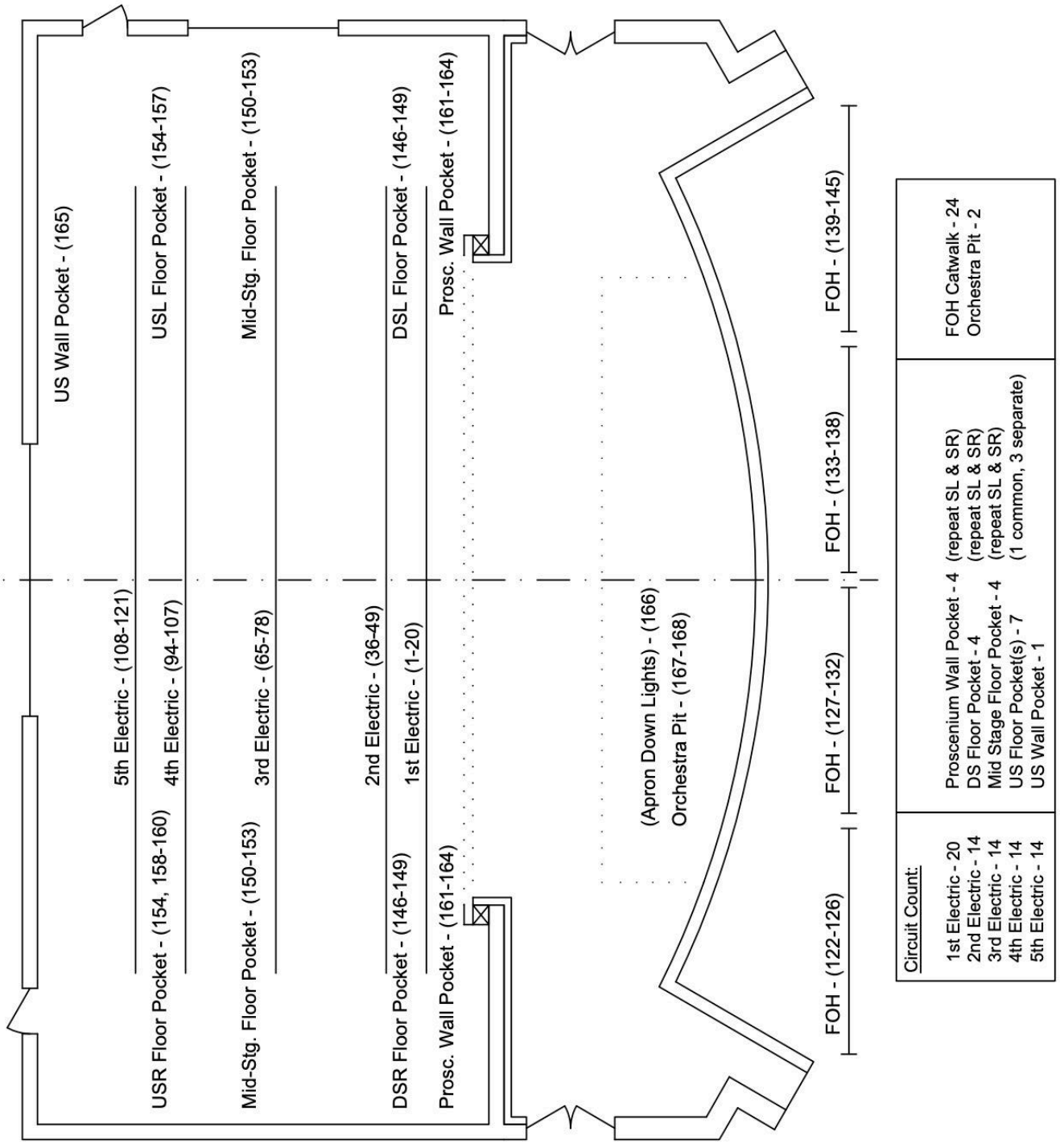
Stage-pin jumper cables (5'-50') available, generally enough cable to hang/use instruments on top of the rep plot.

Available Accessories (Quantities Vary):
Gel Frames, 1 per fixture
Gobo Holders, A & B Size
Tophats, 6.25"
Barn Doors, 7.5" & 10"
Two-fers, Stage-Pin
Stage-Pin to Edison Adapter, M-F & F-M
DMX Cable, 3-pin & 5-pin
Side Arms
Boom Bases (x8), with 8' pipes

Single operator electric personnel lift used to focus lights over stage is available upon request with advanced notice.

Lighting instruments and accessories may already be in use for the House rep plot. Please inquire in advance to confirm equipment availability or to obtain a copy of the current rep plot.

CIRCUITRY GROUND PLAN



AUDIO & VIDEO

Console
Allen & Heath SQ7 Digital Mixer
Mixing can be set up and networked at the following locations: Control Booth (default), House-Left back rows (decreases number of available seats and accessible seats)

Line Arrays
Left, Right, Center arrays each consisting of five (5) JBL VRX928LA and one (1) JBL VRX915S cabinets
Arrays are fixed height above the stage apron

Input Infrastructure
XLR Mic Inputs (x6)/ Line Returns (x2) at the following locations: Downstage Left & Right, Upstage Left (4x Mic Inputs) & Right, Orchestra Pit Left & Right
Up to four (4) Aux sends can be patched to individual Line Returns

On Stage Monitors
Six (6) TurboSound TXD 12M Cabinets
Up to four (4) monitor mixes can be patched to the following locations, up to three (3) per mix: Downstage Left & Right A/B, Upstage Left & Right A/B, Orchestra Pit Left & Right A/B

Program Monitors
*** Tied to Main Mix/Main PA
Locations: Dressing Rooms, Scene Shop, Control Booth, Music Classrooms
Paging Mic located Downstage Right

Microphones
Four (4) Shure QLXD4 Wireless Receivers
Four (4) Shure QLXD2 Wireless Handheld Mics w/ SM58 Capsules
Four (4) Shure QLXD1 Wireless Bodypack Mic
Shure 93, 185, and 84A Lavalier Elements for BodyPack Mics (quantities vary, inquire in advance)
Additional microphones (Shure SM58, SM57, Shure MX418, condenser mics) and microphone stands subject to availability; please inquire in advance.

Playback Devices
USB Audio Interface via SQ7
Whirlwind PCDI or Radial USB DI
Denon DN300R Solid State Recorder

Communication/Intercom System
One (1) ClearCom MS702 Main Station w/ Headset (in Control Booth)
Five (6) ClearCom RS-601/RS-701 Single Channel Beltpack w/ Headset
Two (2) Telex BP-1 Single Channel Beltpack w/ Headset

Wired communication (A or B channel) is available at the following locations: Downstage Left & Right, Control Booth, FOH Catwalk, SR Loading Gallery

AUDIO & VIDEO (CONT'D)

Hearing Assistance
*** Tied to Main Mix/Main PA
Listen Technologies LT-800 FM System
Four (4) Listen LR-400-072 Receivers w/ Mono Ear Speaker
Twenty-one (21) Listen LR-4200-072 Receivers w/ Mono Ear Speaker
Seven (7) Listen LA-430 Intelligent Neck Loop for "T" Coils
Three (2) LA-166 Neck Loop for "T" Coils

Video & Projection
HDMI/VGA inputs on stage (downstage left apron) or in Control Booth
Audio routed separately from video signal
EIKI LC-WUL100A
Epson EB-PU2213B (ELPLU04 short-throw and ELPLW06 wide-throw lenses)
Projector sets up on a cart at floor level against upstage wall of the stage
Rear projection screen on line set #5
*** Projector can be rigged above the stage on line set #4 and displayed on the cyclorama (line set #39) for full stage images. In this configuration the video is controlled from the DSL wing.
Please inquire in advance about video source availability and compatibility

BACKSTAGE INFORMATION

LOADING AREA

The loading dock area is located off stage left at stage level. Loading/unloading is done at street level; a lift gate or ramp is required. Truck access and parking must be arranged in advance.

Loading Dock Exterior Garage Door: 7'-11"w x 9'-10"h
Height from ground: 0'-6"
Distance from loading door to stage: 30'-0" (one 90 degree left turn)
Door from loading dock to hallway: 10'-0"w x 9'-3"h
Doors between loading dock & stage: 10'-0"w x 9'-6"h
Door from stage to scene shop: 18'-0"w x 12'-0"h (located upstage)

DRESSING ROOMS

Male/Female group dressing rooms are available off stage left. Dressing rooms include bathrooms/running water, mirrors, counters, makeup lights, and chairs. Showers not available. Rolling Z-racks are available in limited quantities.

Dressing rooms are not large enough to accommodate wardrobe trunks or personal trunks.
With advanced notice the scene shop (access SL or SR) may be used as an additional wardrobe area for storage of road cases and trunks.

Dressing Rooms: 1 Male, 1 Female
Dressing Rooms Capacity: 6 - 8 persons
Distance from stage: 20' - 30'

FRONT OF HOUSE CONTROL BOOTH

The control booth is accessible via a stairwell in the lobby, and is approximately 79'-0" from the stage by line-of-sight.
The booth is the standard location for lighting and sound control, and is the best viewing position for a stage manager to "call the show"

MISCELLANEOUS

Scene Shop:
A scene shop is located behind the stage, and may be made available for use to complete minor repairs to scenery, props, etc. There are no dedicated properties or costume workshops on the premises.

Rehearsal Rooms:
Dedicated rehearsal spaces are not available.

Green Room:
Subject to availability, various rooms may be used as a green room if arranged in advance.

ROOM DIMENSIONS

Room:

Music Classroom I	39’-0” x 35’-0”
Music Classroom II	44’-0” x 31’-0”
Trap Room (under stage)	72’-0” x 30’-0”
Orchestra Pit	71’-0” x 16’-0”
Women’s Dressing Room	12’-0” x 15’-0”
Men’s Dressing Room	12’-0” x 23’-6”
Loading Dock	15’-0” x 40’-0”
Scene Shop	39’-0” x 40’-0”
Visiting Company Office	10’-9” x 14’-0”

AUDIENCE SEATING INFORMATION

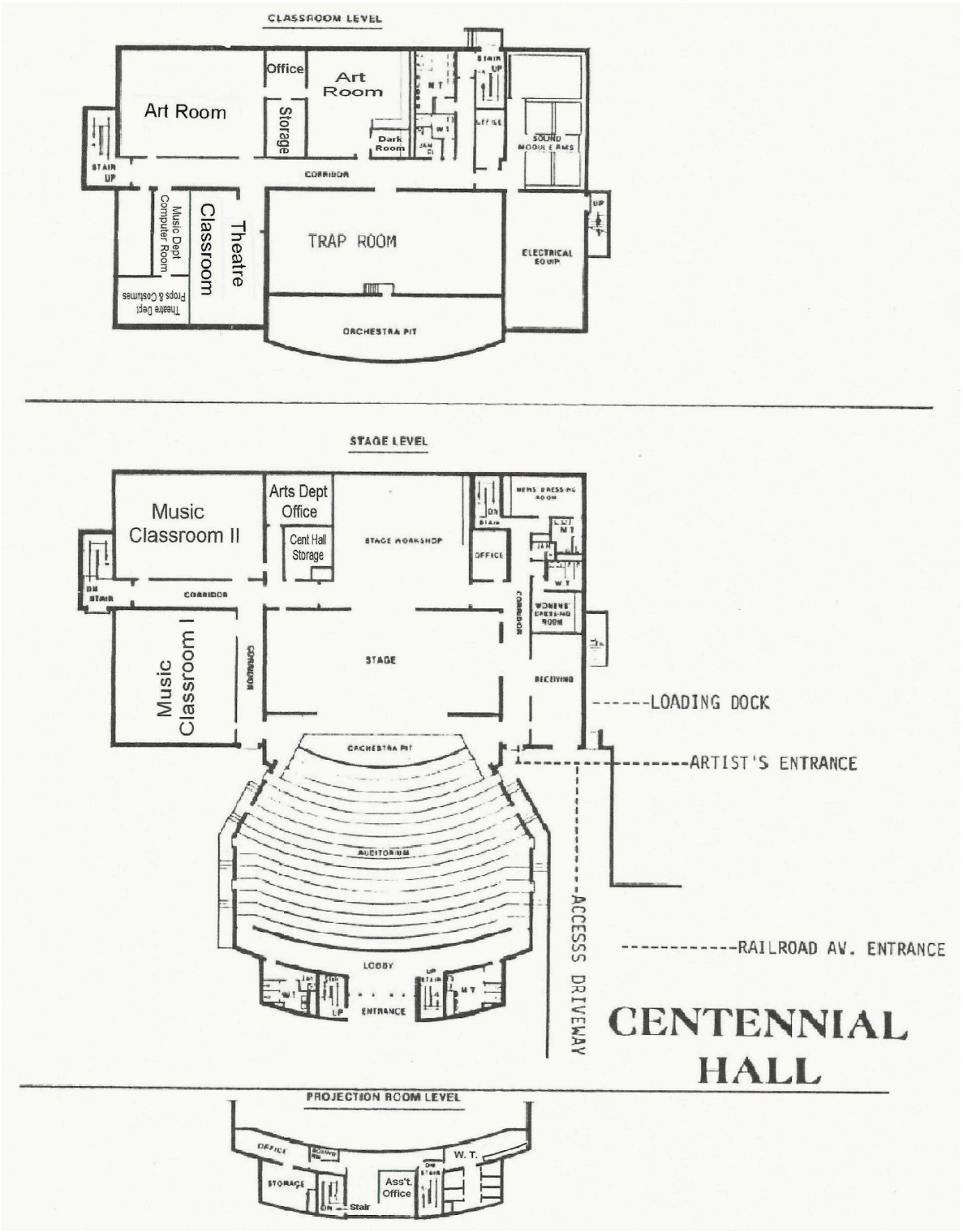
Seating area is in Continental Style with only side aisles. There is no center aisle.

Total Capacity: 655 seats

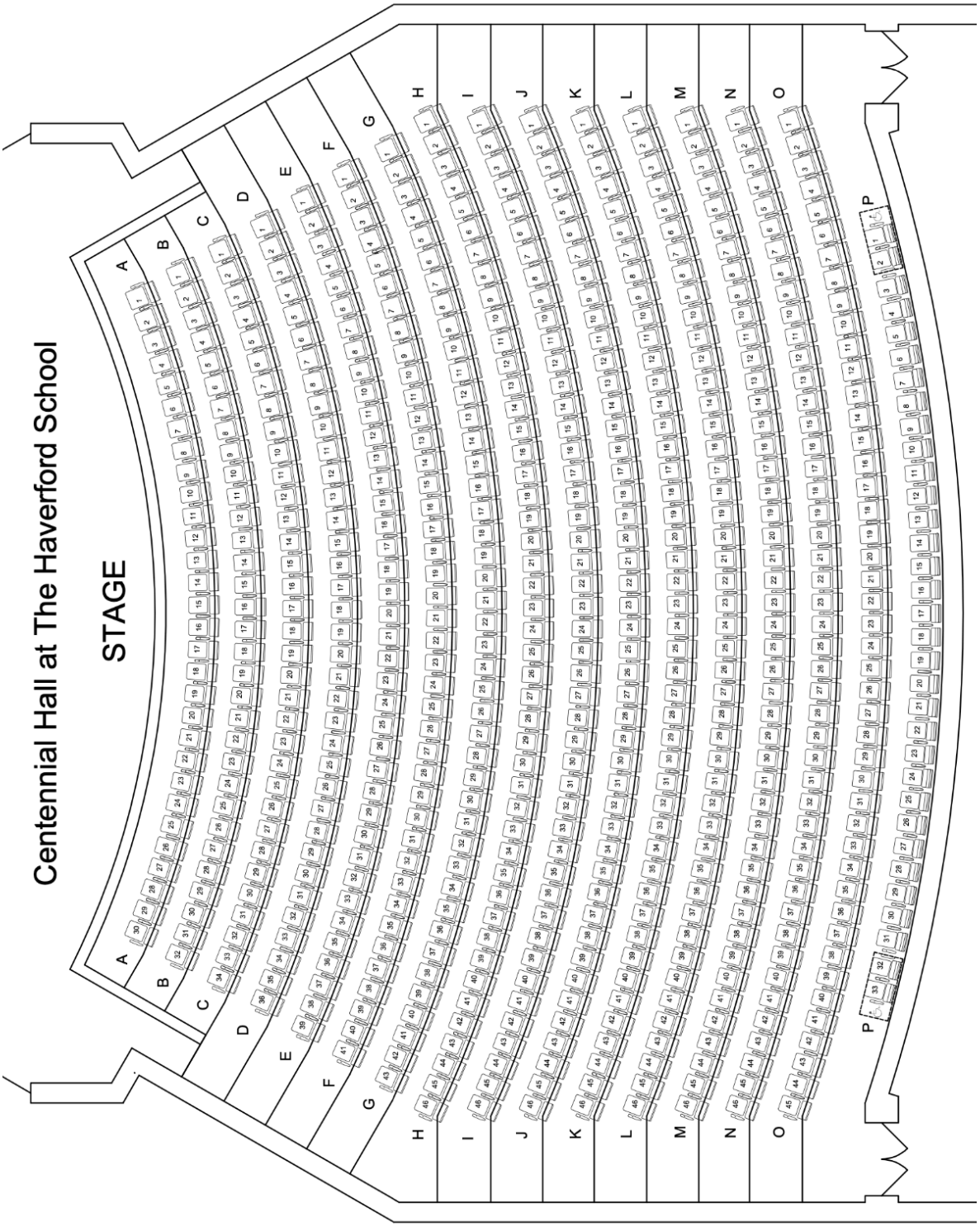
Row	Seat #'s
A	1 – 30
B	1 - 32
C	1 - 34
D	1 - 36
E	1 - 39
F	1 - 41
G	1 - 43
H	1 - 46
I	1 - 45
J	1 - 46
K	1 - 46
L	1 - 46
M	1 - 46
N	1 - 46
O	1 - 45
P	1 – 33

The last row can accommodate 4 - 5 wheelchairs for accessible seating. Seats P1-2 and P32-33 can be removed as pairs. There is street level access to the theater for accessible seating through the main lobby.

BUILDING GROUND PLAN



SEATING CHART



A separate PDF of the seating chart is available upon request.