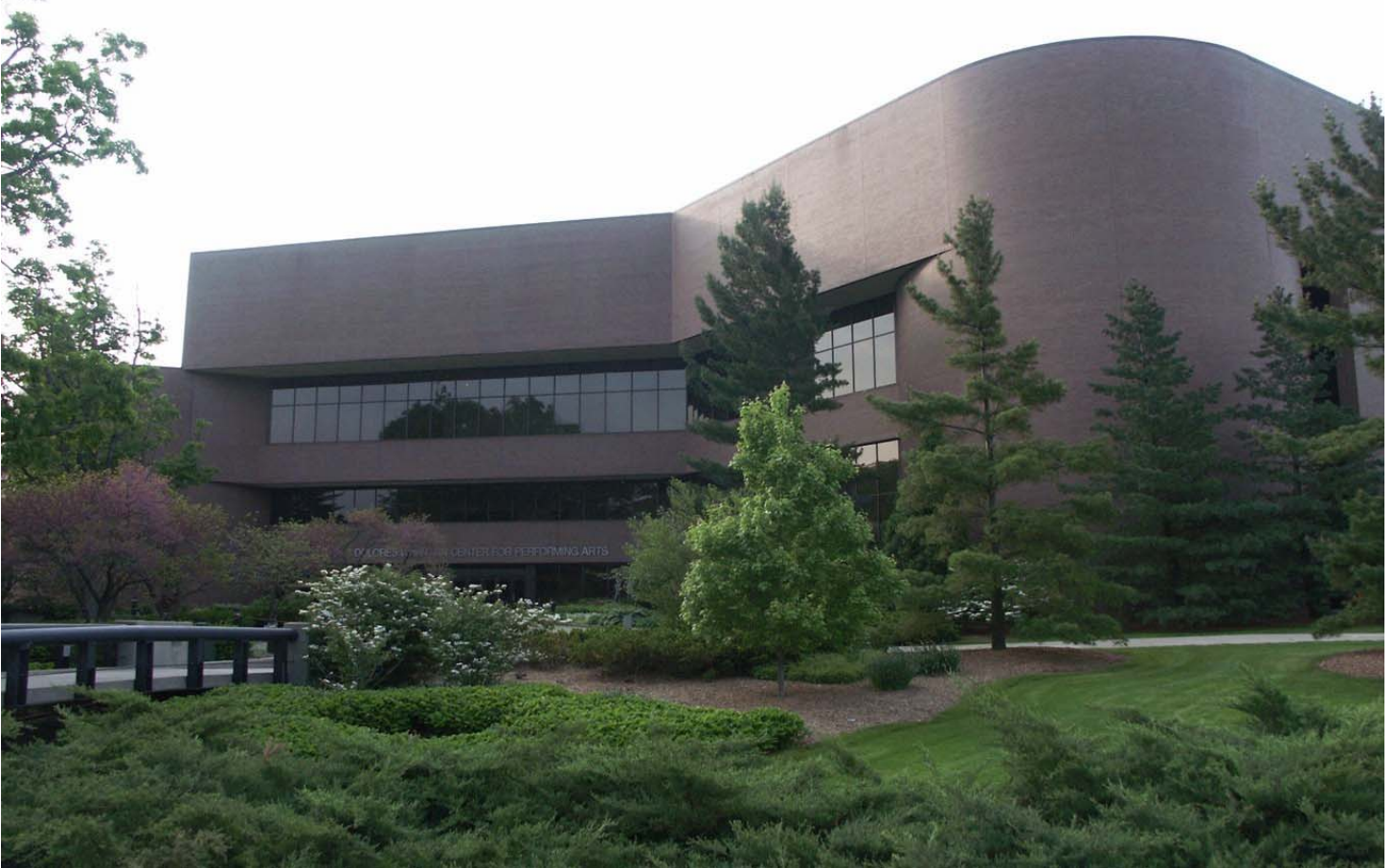


Wharton Center for Performing Arts



Technical Information
for the

Great Hall

Version current as of 3/23/2005

Michigan State University

East Lansing MI. 48824-1318

517-353-1982

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General Information

Wharton Center For Performing Arts

Shaw Lane at Bogue Street
Michigan State University
East Lansing, Michigan 48824-1318
Home Page - <http://www.whartoncenter.com>

TIME ZONE - Eastern Standard Time

Administrative Offices	(517) 353-1982
FAX #	(517) 353-5329
Box Office	432-2000
	1-800-WHARTON
Backstage	355-1907
Production Manager	353-1982
House Manager	353-1982

Administrative Personnel

Mike Brand	Executive Director
Diane J. Baribeau	Director of Operations Ext.#103
Kent Love	Director of Communications Ext.#113
Doug Mactaggart	Director of Finance Ext.#123
Debbie Gift	Director of Education Ext.#108
Jarrold Bradford	Box Office Manager Ext.#104
Nina Silbergleit	House Manager/Food Service Coordinator Ext.#119
Stephanie Kribs	Assistant House Manager Ext.#116
Bob Hoffman	Publicist Ext.#117

Production Personnel

Production Manager: Sandra Thomley
PH# 517-353-1982 Ex 109 Email: thomley@msu.edu

Stage Managers: PH# 517-353-1982 Ex. 110
Brian D. Archer
Ronald R. Fenger
Maureen Murphy

I.A.T.S.E. Contact

Local #274
419 S. Washington Square
Lansing , MI 48933-2124
(517) 374-5570
Fax (517) 374-5589

Specifications Great Hall

Loading Dock

Dock Height is 3' 7" and is level with stage floor.

There is enough space for 4 trucks/trailers at the dock, they can remain parked at dock for duration of the stay.

Loading door dimensions are 9' 10" H x 9' 10" W .

*** Picture on page 15***

Stage

The Great Hall has a curved DS edge of the stage (see stage diagram)

Orchestra Lifts *There are two orchestra lifts (hydraulic) which work independently*

- Inner Lift (504 sq.ft.) 52' 0" x 11' 8"

- Outer Lift (880 sq.ft.) 70' 9" x 10' 9"

Either lift can be stage extensions DS of Proscenium

or each can be lowered to 7' and used as an orchestra pit (inner alone or both together)

maximum depth of both lifts is 11' below stage level (an access door is at each level).

Outer Lift has three rows of 119 seats on wagons that roll off into a lower storage area. (Rows: AA, BB, CC)

Lifts cannot be operated during performances!

Stage Right Platform (Jump) -There is a 12' w x 56' L steel platform , 27' above the SR wing space.

Platform has a pin-rail built in. Distance from platform to SL pin-rail is 96'.

Stage Dimensions

Proscenium	: width	-	30' 0"
	height	-	2' 4"
	thickness	-	107' 8"
Stage Width :	SL locking rail to SR patch panel		24' 4"
Wing Space :	SR (proscm. to elect. patch panel)		25' 8"
	SL (proscm. to locking rail)		53' 2"
Stage Width :	SR (center line to SR patch panel)		54' 6"
	SL (center line to SL locking rail)		56' 8"
Stage Depth :	DS edge of apron to back wall (US)		68' 4"
	DS edge of inner orch.lift to back wall		79' 1"
	DS edge of outer orch.lift to back wall		52' 0"
	US edge of Proscenium to back wall		50' 0"
	House curtain to back wall		4' 6"
	House Curtain to apron at CL		16' 9"
	House curtain to DS edge of inner lift		27' 6"
	House curtain to DS edge of outer lift		4' 5"
	US edge of Proscm. to apron at CL		16' 2"
US edge of Proscm.to DS edge inner lift			26' 11"
US edge of Proscm.to DS edge outer lift			56' 10"
	Circular width front edge of inner lift		82' 9"
	Circular width front edge of outer lift		

57' 8"

Rigging

Great Hall

General Information

Counterweight system is single purchase 1:1 ratio
Grid is 75' 10" above stage floor
Locking Rails (both floor and upper pin-rail levels)
are stage left with vertical clearance 13' 10"
Batten length is 84' 0"
Batten travel is 69' 2"
Batten low trim is 3' 10"
Batten high trim is 73' 0"
Average distance between battens is 8" oc
Batten is 1½" ID schedule 40 pipe
Batten has 9 lift lines
Pipe weight is 175 lb.
Arbor capacities of : general batten 1500 lb.
electric batten 2000 lb.

Orchestra Shell Ceiling

See hanging plot
Ceiling pieces can be cleared from linesets

Main Act Curtain lineset #2 (see page Hanging Plot)
Motorized guillotine or manual travel (split center)
Manual travel operation from DSL at floor level only
Motorized switch control located both DSL and DSR
Fixed motorized speed is 15 sec. (full up to full down)
Main Act Curtain cannot be cleared.

Valance lineset #1 (see page #12 Hanging Plot)
Valance is part of Deluge Fire Protection System
NO scenery, lights, etc. may be attached to batten
NO scenery or equipment may be placed across curtain line
to prevent valance from reaching stage floor
Valance is not a "working" batten. Valance cannot be cleared.

DRAPES (see page #12 Hanging Plot for dimensions)

<u>Item</u>	<u>Colour</u>	<u>Material</u>	<u>Fullness</u>
Valance	rust	velour	100%
Main curtain	rust	velour	100%
Legs	black	velour	60%
Borders	black	velour	60%
Travelers	black	velour	60%
Cyclorama	blue	muslin	0%

Support Areas Great Hall

Floor

Stage Floor construction, from bottom to top, is as follows:
 2x4 wood sleepers on 2' centers resting on neoprene pads
 ¾" plywood
 1" plywood (laid at right angles to ¾" plywood)
 1 1/8" T&G Southern Yellow Pine, edge grain.
 Stage Floor is stained brown and sealed.
 Nails, screws, lag bolts, etc. may be used in the floor.

**All support areas/equipment are shared between Pasant Theatre and Great Hall.
 Please check with Technical Facilities Manager regarding availability.**

DRESSING ROOMS (floor plans at end of rider)

<u>Quan</u>	<u>Capacity</u>	<u>Location</u>
3	1 person	1st floor
4 (2 pair)	3 person suite	2nd floor
1	3	" "
5	5	" "
2	20	" "
2	20 (no showers)	" "
1	20	3rd floor

All dressing rooms are equipped with make-up counter, mirrors w\lights, sink, toilet(s), and showers (except where noted above)
 Second and third floor rooms are accessible by elevator or stairs
 Suite dressing rooms share shower and rest-room facilities.

Laundry Room (see second floor floor plan)

Three heavy duty washers and three heavy duty dryers
 Two steam irons and ironing board
 Two Jiffy steamers with wand
 One deep tub sink
 Ten 6'long rolling costume racks
 NOTE: there is NO separate wardrobe room

Rehearsal Studio (rental space - located on third floor)

34' 6" wide x 68' 4" long
 68' of mirrors (6' tall) along west wall
 Hardwood floor (same construction as Great Hall stage floor)
 Covered with Marley
 Accessible by elevator or stairs

Electrical Great Hall

NOTE: The Wharton Center has VectorWorks Spotlight 9.5.2 , LightWrightV3, and a 24" plotter. A rep hang is available on VectorWorks. We can send and receive light plots and paperwork via Email at:

WCProd@msu.edu

Company Switches

#1 Hook-up: 120/208 VAC, 3 phase, 5 wire, 600A/leg

Located USR next to stage entrance

#2 Hook-up : 120/208 VAC, 3 phase, 5 wire, 200A/leg

Fused in three separate boxes at ; 200A/leg, or
100A/leg , or 60A/leg.

#3 Hook-up : 120/208 VAC, 3 phase, 5 wire,

This is a 800 amp/leg maximum combination load Distribution box

There are six - 3-phase Breakers : 2 - 400A, 2 - 200A, 2 - 100A

Female Cam-lock connectors on the 400A & 200A breakers

Located USR on back wall.

Dimmers

4 ETC Sensor AF dimmer racks: 319 - 2.4 kW circuits (dimmer per circuit)

Lighting Control

1 - ETC Expression 2X Console w/ remote focus unit
or 1 - ETC Insight 2X Console

Located in an enclosed booth at rear of the house

House light control - ETC Snapshot

Clear-Com communication and performance monitor in booth

Circuits

319- 20A permanently wired house circuits

Stage Electric circuits:

1st - 36 , 2nd - 24, 3rd - 24, 4th - 24, & 5th (Cyc lights) 6 open circuits

Drop Box circuits 36 total - 18 per side (DS, MS,& US)

FOH circuits:

Second Catwalk 48- 20A circuits

First Catwalk 28- 20A "

SR Box Boom 18- 20A "

SL Box Boom 18- 20A "

ALL FOH circuits break out at transfer panel USR

FOH positions

Throws from Second Catwalk,SR&SL Box Booms average 67-77'

Throws from First Catwalk average 35'

FOH Hang

The great Hall has a permanent FOH hang as listed below

#2 Catwalk 45-19° & 24-10° ETC S-4

Box Booms – each 12-19° ETC S-4 and 1 26° ETC S-4 (Curtain Warmers)

Electric Miscellaneous

(shared with Pasant Theatre- check availability)

40 - 20amp stage pin two-fers

10 - 24' diameter boom bases, threaded for 1½" pipe

An assortment of 1½" pipe in various lengths

8 - 14" diameter boom bases, threaded for 1" pipe

2 rolling boom bases, threaded for 1" pipe

Lighting Great Hall

Luminaries

<u>Quan</u>	<u>Size</u>	<u>Angle</u>	<u>Watt/lamp</u>	<u>Frame size</u>
***80	ETC Source Four	19°	575 HLP	6½" x 6½"
***20	ETC Source Four	10°	575 HLP	12" x 12"
164	ETC Pars w/ 5 lens		575 HLP	7½" x 7½"
80	ETC Source Four	36°	575 HLP	6½" x 6½"
87	ETC Source Four	26°	575 HLP	6½" x 6½"
1	ETC Source Four	10°	ADDITIONAL LENS TUBES	
6	ETC Source Four	36°	ADDITIONAL LENS TUBES	
12	6' 9" striplight	(1500/ckt)	500 FCZ	11 7/8" x 8 3/4"
* 8	6' 9" Cyclight	that are permanently hung on lineset #49		

*** 70 - 19° and all 10° units are in FOH Hang

Follow Spots

Four - 2000 watt Xenon Super Trouper

Located at rear of the Balcony in an enclosed booth

Four separate 30A circuits in booth:

2 - 120 VAC single phase, 3 wire

2 - 120 VAC single phase, 3 wire OR

220 VAC single phase, 4 wire

Distance to proscenium at center line is 135'

Accessories (shared with Pasant Theatre- check availability)

24 - barn doors for 8" fresnel

30 - barn doors for ETC Source Four PARS

10 - drop in Iris's for ETC Source Four leko

50 - pattern holders for ETC Source Four leko

Projection Booth

Located at rear of house in an enclosed booth(next to light booth)

Throw is 129' to screen at a 7° angle

Audio

Great Hall

NOTE: The Great Hall is VERY live acoustically.

Extreme care should be exercised in setting volume levels.

NOTE: Michigan State law limits electronic sound pressure levels to a maximum of 105 DB

during all events. Your event CANNOT exceed this level at ANY time.

Touring companies may patch into the house system for additional coverage.

Mixing position for ALL shows is at center back of the house, 85' from stage with unobstructed sightlines to all FOH speakers - FOH to stage cable run is 200'.

System has been SYMed to provide even sound coverage over the whole house. But changes can be made to the liking of the Guest Engineer.

Front Of House

- Midas Heritage 2000/ 56ch.
- 6 XTA 3rd octave graphs GQ600
- XTA Audio Core computer at FOH
- Tascam CDR
- Tascam Dual CD and TAPE
- Eventide Eclipse Vocal Processor
- TC Electronic M3000
- 8 Comps DBX 1046
- 8 Gates Drawmer DS404
- Snake Trauff on wall with 56ch. Mic/line and 20ch. Drive

Installed Speakers

- L-Acoustics DVOSC Centre Line Array/ 14 Cabs
- 2 per side DB E3 side fills
- 2 per side L-Acoustics Arcs side fills
- 6 DB E3 Front Fills
- 2 Meyer UPA2P Balcony Fill
- 2 Meyer SW15 Subs in with line array

On stage

Moveable Speaker Stacks

- 2 per side Meyer 650's Proscenium Stacks
- 2 per side Meyer CQ's Proscenium Stacks
- 2 per side Meyer MSL4's Proscenium Stacks

- 20 Drive lines
- 56 Mic/Line Ch.'s
- XTA DP 224's Loudspeaker Pros. For Proscenium Stacks
- Main PA Tie IN
- Program sound and Phonic Ear Tie IN
- 4 12ch. Sub snakes
- Mic/line Manifold
- Drive line Manifold

Amp Racks

- Crown Macro Techs 3600
- DBE3 Processor/Amplifiers
- XTA DP226 Processors

Audio Great Hall

Monitor System

- CrestX 48ch. Monitor Desk

- 12 DBX 20 Series 3rd Octive Graphs
- Virtualizer Pro DSP2024P Effects Processor
- 8 Crown MacroTechs 24X6 Amps
- 12 Macpherson M12 Wedges
- Other Monitor gear available if needed

Microphones

- 4 SM81 -4 AKG 414 -3 Crown Pcc 160 -4 Senn 421 -3 Senn MKH40
- 1 AKG D12 -1 EV RE20 -3 Senn 431 -1 PZM 30D -2 PZM -2 Beyer M69
- 8 AKG 535 -4 Beta 58 -12 SM 58 -7 Beta 57 -3 SM 57
- 4 Audio Tech Uni-Points -3 Audio Tech Angel Mics -7 EV RE11
- 2 EV DS35 -3 EV RE10 -2 EV CS15E -4 BSS Active DI -3 DB1 DI
- 2 Countryman TYPE 85 Active DI

Shure Wireless

- 12 CH's
- 8 Beta 87 Hand Helds
- 12 Lav packs U1/UA
- 12 Lavs WL50
- 2 Senn MKH2

Properties

Great Hall

Equipment

(shared with Pasant Theatre check availability)

200 Black orchestra chairs

100 Music stands

80 Music stand lights
 8 Wenger 3 step choral risers w/ 4th step addition
 12 4'x 8'risers 8" high
 12 " " 16" high
 12 " " 24" high
 12 " " 32" high
 2 conductor podiums (gray carpet) w/ 1 railing
 (1 med. , 1 Lg used separate or stacked for bi-level)
 2 full height wooden lecterns
 32 folding leg tables 30"x 70"
 8 " " " 30"x 48"
 (black table skirting available)
 1 JLG personnel lift 36'
 & an assortment of 4-wheel dollies & 2-wheel carts
 & rolling clothes racks

Rentals

1 9' Steinway concert grand piano
 1 7' Baldwin baby grand piano
 1 Yamaha U-1 upright piano
 1 Full stage Wenger Custom Orchestra Shell w/ceiling and lights
 (must be assembled)
 8 - 6'x 57' sections Marley dance floor (black/gray)
 1 Fastfold projection screen 12'x 12' front projection
 2 Fastfold projection screen 10'x 14' Rear projection
 1 Mitsubishi LVP X5000U XGA 3700 lumen LCD projector

Video

The Great Hall has a permanent in-house closed circuit video system w/ color monitors backstage and throughout the lobbies.
 It is a single camera system with a fixed position located in the projection booth at the rear of the house.

Wireless Frequencies

used on MSU campus

The MSU Campus has been called one of the most saturated areas for RF in the country!

Here are some of the frequencies used for professional wireless mics that we know of.
 (very long class room wireless system freq. list available)

MSU RF Chart

Wharton Center

VHF mics:	175.400 Mhz	UHF mics:	794.000 Mhz
	175.600		794.500
	175.800		795.000
	176.000		795.500
	176.200		796.000
	176.400		796.500
	176.600		797.000
	176.800		797.500
	177.000		798.000
	177.200		798.500
	177.400		799.000
	177.600		799.500
	177.800		
	178.000		
	178.200		
	190.600		
UHF Clear-Com:		Transmit -	522.300 Mhz
		Receive -	632.200
			632.700
			634.500
			637.000

Breslin Center

VHF mics:	188.425 Mhz	UHF mics:	782.750 Mhz
	189.000		785.125
	189.320		788.250
	199.420		792.250

<u>Instructional Media Center</u>	170.325,	171.905,
<u>& misc. Media radios</u>	175.000,	175.400,
	181.000,	184.400,
	185.150,	190.400,
	192.200,	215.200.

Television stations in the area

WLNS (CBS)	channel 6
WILX (NBC)	" 10
WKAR (PBS)	" 23
WSYM (FOX)	" 47
WLAJ (ABC)	" 56

Wharton Center for Performing Arts East Lansing, Michigan Great Hall Hanging Plot

Revised April 2nd, 2003

Proscenium opening = 30'-0" tall x 57'-8" wide

Lineset#	Distance from plaster	House Goods	Information & Notes
1	0'-10"	Grand Valance/Fire Curtain	33'H x 64'W, Cannot be stripped
2	1'-6"	Grand Traveler	33'H x 74'W, Mechanical fly, manual travel
3	2'-9"	#1 House Electric	36 circuits, dimmer-per-circuit
4	4'-2"	Empty	
5	5'-1"	Empty (#1 Orchestra Shell Ceiling)	
6	6'-1"	Empty	
7	6'-9"	Empty	
8	7'-4"	Empty	
9	8'-1"	Empty	
10	8'-8"	Black Border	15'H x 84'W, 300 lbs.
11	9'-4"	Black Traveler	35'H x 87'W, track = 475, goods = 650 lbs.
12	10'-0"	Empty	
13	10'-8"	#2 House Electric	24 circuits, dimmer-per-circuit
14	11'-3"	Empty	(well obstruction at approx. 10'-11")
15	11'-10"	Empty	
16	12'-5"	Empty	
17	13'-1"	Empty	
18	13'-8"	Empty (#2 Orchestra Shell Ceiling)	
19	14'-9"	Empty	
20	15'-4"	Empty	
21	15'-10"	Empty	(well obstruction at approx. 16'-4")
22	16'-9"	Empty	
23	17'-5"	Black Border	12'H x 84'W, 250 lbs.
24	18'-0"	Black Traveler	35'H x 84'W, track = 475, goods = 650 lbs.
25	18'-7"	Empty	
26	19'-3"	#3 House Electric	24 circuits, dimmer-per-circuit
27	19'-9"	Empty	
28	20'-5"	Empty	(2" raceway crosses grid at approx. 20'-3")
29	21'-1"	Empty	
30	21'-7"	Empty	(well obstruction at approx. 21'-8")
31	22'-4"	Empty (#3 Orchestra Shell Ceiling)	
32	23'-3"	Empty	
33	23'-10"	Black Border	12'H x 84'W, 250 lbs.
34	24'-5"	Black Traveler	35'H x 84'W, track = 475, goods = 650 lbs.
35	25'-1"	Empty	
36	25'-10"	#4 House Electric	24 circuits, dimmer-per-circuit
37	26'-6"	Empty	(conduit crosses grid at approx. 27'-0")
38	27'-5"	Empty	
39	28'-0"	Empty	
40	28'-7"	Empty	
41	29'-3"	Empty	
42	29'-11"	Empty	
43	30'-8"	Empty	
44	31'-5"	Black Border	12'H x 84'W, 250 lbs.
45	32'-0"	Black Traveler	35'H x 84'W, track = 475, goods = 650 lbs.
46	32'-7"	Empty	(well obstruction at approx. 32'-4")
47	33'-3"	#5 House Electric - Cyc Lights	6 additional 20A circuits
48	33'-11"	Empty	
49	34'-7"	Empty	
50	35'-3"	Empty	
51	35'-10"	Empty	
52	36'-8"	Black Sharktooth Scrim	35'H x 65'W, 75 lbs.
53	37'-3"	Blue Cyclorama	35'H x 65'W, 250 lbs.
54	38'-1"	Full-Stage Blackout Drop	40'H x 70'W, two panels, 550 lbs. total
55	38'-9"	Empty	(well obstruction at approx. 37'-8")
56	39'-4"	Empty	
57	40'-0"	Empty	
58	40'-7"	Empty	
59	41'-3"	Empty	
60	41'-10"	Empty	

61	42'-5"	Picture Screen Storage	20'H x 45'W, 450 lbs.
62	43'-1"	Empty	(well obstruction at approx. 43'-0")
63	44'-1"	Shell Storage (Not available for use)	
64	45'-5"	Shell Storage (Not available for use)	
65	46'-9"	Shell Storage (Not available for use)	

NOTES:

- Due to campus fire regulations, the Grand Valance/Fire Curtain on Lineset #1 *must* be respected at all times. *Absolutely NOTHING* may block the Valance's free travel to the stage. The Grand Valance/Fire Curtain may be used as a guillotined act curtain if desired, but its balance may not be altered—it is pipe-heavy, and *must* remain so at all times. It does not have a center split.
- The Grand Traveler is a manual-travel, mechanical fly pipe. Guillotine travel speed is approximately 15 seconds from extreme high trim (about 35') to the deck, and cannot be adjusted.
- High trim on all pipes is approx. 71'. Lowest (working) trim is approx. 4'.
- Pipes 2-4 cannot be kicked, although they may be diverted. Pipe #5 may be kicked, but not very far.
- Due to the width of the overhung loft blocks, pipes 6-62 can generally only be kicked 2-3" without gang-kicking or diverting. There are some instances of obstructions in the structural steel preventing any kicking of certain linesets in certain directions (grid hangers, for example).
- Pipes #5, 18, and 31 are used for our orchestra shell ceilings. The ceilings may be stripped as needed, given advance notice.
- Pipes 63-65 are orchestra ceiling storage pipes, and are not generally available for any other use.
- House electric pipes (Linesets #3, 13, 26, 36, and 47) are double-batten pipes. All house electric works, e.g. feeder mults, fan-outs, worklights, etc. may be stripped as needed.
- The grid is over-hung, 2"x3" C-channel with 10" wells on 10' centers, and is fully riggable. We stock a fair quantity of 3' long, 1.5"ID Sched. 40 pipe and 2" thick-wall box tube for piping points on the grid, and can hang up to a 1-ton point pretty much anywhere. Two-ton (and heavier) points may be hung from well channels, heavy spanner beams, or the high steel *only*.
- Well obstructions noted consist of steel diaphragms and/or grid hangers crossing the wells, except for the raceway at 20'-3".
- There are two (2) locking rails, both SL. One is at stage level, the other is on the SL pinrail, approx. 17' off the deck. Either one may be used for running the show, as your needs dictate. There is also an elevated pinrail SR, approx. 27' off the deck. Most picklines (especially electric picks) are led to this side, although they may be led to either side as needs dictate.

- We stock a healthy quantity of spotting sheaves and 3/4" hemp on the grid for installing spotlines. They may be spotted anywhere on the grid as needs dictate.
- There are six (6) fixed rigging dead-eye positions in the first house cove, approx. 5' downstage of the plasterline, for hanging lighting or sound trusses DS of the proscenium. They are located at approx. 7'-6", 21'-6", and 29'-3" from CL, both SL and SR (mirrored points), can safely hold up to one ton each, and are clear of obstructions to approx. 30' off the deck. Hanging points from any other location downstage of the proscenium will be considered on a case-by-case basis, but is actively discouraged.

Wharton Center Loading Dock Area - looking from entrance

Great Hall Dock

Backstage Entrance

Pasant Theatre Dock



Directions to Loading Docks

Located at the corner of Wilson & Bogue on MSU Campus

From East:

If on either I-96 or I-94 take 127 north to Trowbridge exit. Go down the exit and straight through the traffic light. You are now on MSU campus. Follow the road as it curves to the left and you will come to a traffic circle. Take the first exit out of the circle (like a right turn). You are now on Wilson Rd. Go through the traffic light and you will come to another traffic circle. At this point the Wharton Center is kitty corner on your left. Go 1/2 way around circle and exit in the same direction you came into the circle. The first left (100') is the entrance to the loading dock area. Do not go past the parking ramp!!

From West:

If on I-94 take 127 north to Trowbridge exit.

If on I-96 exit onto 496 east to the Trowbridge exit (exit 9).

Go down the exit and straight through the traffic light. You are now on MSU campus. Follow the road as it curves to the left and you will come to a traffic circle. Take the first exit out of the circle(like a right turn). You are now on Wilson Rd. Go through the traffic light and you will come to another traffic circle. At this point the Wharton Center is kitty corner on your left. Go ½ way around circle and exit in the same direction you came in to the circle. The first left (100') is the entrance to the loading dock area. Do not go past the parking ramp!!