

Martin W. Kappel Theater
TECHNICAL INFORMATION
Revision D – February 25, 2013



CHENANGO *arts* COUNCIL

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AUDITORIUM

Seating capacity

506 (177 balcony, 329 orchestra)

Year built

1900, renovated in 1996

Materials

House walls and ceiling are plaster – large windows in house right wall
House left and right walls covered with red Velour curtains

Dimensions

Stage edge to back wall of house (on CL) – 51'-9"
Total width (wall to wall) – 63'
Stage edge to balcony edge (on CL) – 30'-8"
Ceiling height – 25'
Ceiling height under balcony – 9'-5"

STAGE

Proscenium

Height – 16'-8"
Width – 49'-6"

Stage Dimensions

Grid height – 19'
Ceiling height – 24'
Total width (wall to wall) – 63'
Stage edge to back wall (on CL) – 24'-9"
Stage edge to center apron edge (on CL) – 4'
Total depth center apron edge to back wall (on CL) – 28'-9"

Wings

Center line to stage walls – 31'-6"
Minimum possible wing space – 4'-6"
Maximum possible wing space – 9'

Aprons

Center Apron

Custom built from $\frac{3}{4}$ " plywood platforms
Depth from stage edge – 4'
Width – Varies from 32' to 24' (moving down stage)

Left Apron

Located down stage left of the proscenium opening
Used for storage of the grand piano
Depth from stage edge – 8'-6"
Width – Varies from 13' to 8'-2" (moving down stage)

Floor

Stage – Tongue and groove wood painted flat black
Left apron – Tongue and groove wood painted flat black
Center apron – $\frac{3}{4}$ " Plywood painted flat black

Orchestra Pit

The hard wood floor between the center apron and the first row of seats may serve as an orchestra pit – it is level with the house floor
(2) mobile stair units provide access between the pit and the stage
Pit dimensions with stair units in default positions – 6'6"x28'
Pit dimensions with stair units removed – 8'x45'

Crossover

Pathway upstage of the traveler or cyclorama used for crossover

RIGGING

Masking and lighting pipes are dead hung directly from the stage grid (there is no fly system). Due to this configuration the masking and lighting pipe positions are fixed and may not be adjusted. The hanging of any scenery from the stage grid or any of the masking or lighting pipes must be arranged in advance and performed only by qualified theater technicians.

MASKING

Grand valence

5'x54' Red Velour – box pleated 12" centers
Distance from stage edge (on CL) – 2'-6"
Height from stage floor to bottom of valence – 13'

Grand curtain

(2) sections of 16'10"x30' Red Velour – box pleated 12" centers
Draw action only – manually operated from stage right
Distance from stage edge (on CL) – 3'
Maximum open width – 44'

Borders

5'x52' Black Velour – box pleated 12" centers
(3) located at 6'-5", 12'-1", and 17'-0" from stage edge (on CL)
Height from stage floor to bottom of border – 13'-6"

Legs

15'-9"x5' Black Velour – box pleated 12" centers
(4) sets located at 6'-9", 9', 11'-5", and 16' from stage edge (on CL)
Each leg may be moved along a section of track and rotated as needed
The first (3) sets of legs are mounted on 10' tracks
The last set of legs are mounted on 8' tracks and are equipped with hand operated brakes that must be released in order to move each leg

Oleo (Mid-stage Traveler)

(2) sections at 16'-0"x27'-0" – Black, sewn flat
Distance from stage edge (on CL) – 13'

Traveler

(2) sections of 17'-8"x27' Black Velour – box pleated 12" centers
Distance from stage edge (on CL) – 21'-6"

Cyclorama

18'-6"x52' Light blue with a couple sewn patches, pipe pocket along bottom
Distance from stage edge (on CL) – 22'
Gathered and tied to pipe for storage – only lowered when needed

LOAD-IN

There is no loading dock with direct oversize access to the stage. The primary load-in site is from Maple Street on the West side of the building. A 5' wide concrete wheelchair ramp provides access into the building through a single oversized door (4'3"x7'10"). There is a single staircase from street level to the first floor. A custom ramp is available for placement over the staircase to provide easier transport of equipment and scenery. Depending on the weight, most road cases require 2-4 persons to safely navigate the steep ramp.

From the top of the stairs the stage is accessed by going down a short hallway, left around a corner, up a short ramp, left through an entryway (3'-11"x6'-9"), and right through the large double doors (4'-11"x12') onto the stage. From the top of the stairs the house is accessed by going down a short hallway, left around a corner, down a long hallway, and left through a set of double doors (4'-10"x6'-11"). For oversized equipment and scenery destined for stage level it may be necessary to go through the house, bypassing the more confined ramp and entryway required to go directly onto the stage.

The load-in, as described above, is especially challenging for oversized or heavy equipment and scenery. Care should be taken to ensure, ahead of time, that all items will fit into the building and that enough able-bodied persons will be available to *safely* move those items in and out of the building.

On Stage Doors

- (1) up stage right – 4'-11"x12' double doors to East hallway
- (1) stage left – 3'-3"x6'-11" exterior door to metal fire escape stairs

LIGHTING

Instrumentation is typically hung and focused according to the Kappel Theater repertory lighting plot. The actual state of the instrumentation at any given time may vary to some extent from the repertory lighting plot. Changes to the repertory lighting plot should be discussed and all relevant paperwork supplied well before the event date. The fixed on stage rigging and lack of a permanent technical crew on staff means extensive re-hanging and re-focusing takes significant time. Extensive deviations away from the repertory lighting plot for an event must be reversed following the event. Any work with the lighting instrumentation must be performed by qualified theater technicians only.

Lighting Control System

Control console

ETC *Idea* computerized control console
(2) scene cross fading, (512) dimmers, (36) channels, (120) recordable cues, (36) recordable submasters
Located in balcony control booth

Dimmers

Dimmer per circuit
(96) 2.4kw ETC *Sensor* dimmers
All circuits terminate at stage pin outlets

DMX inputs

(1) located in balcony control booth
(1) located down stage left
(1) located down stage right

Remote focus unit

Provides viewing of single dimmers or channels at full intensity

Lighting Positions

Front of House

Booms

(1) on each side of the house even with the balcony edge
Height above stage floor – 10'
Distance from stage edge along center line – 29'
Distance from center line – 30'
Circuits – (6) each (distributed via raceways)

FOH pipe

Height above stage floor – 19'-6"
Distance from stage edge along center line – 38'
Circuits – (24) (distributed via raceway)

On Stage

On stage lighting pipes are not equipped with raceways
Main pipes are all 50' in length, B pipes are only 25' in length

LX1 pipe

17' Above floor @ 4'-7" From stage edge

LX2 pipe

17' Above floor @ 7'-11" From stage edge

LX2B pipe

18' Above floor @ 11'-3" From stage edge

LX3 pipe

17' Above floor @ 14'-2" From stage edge

LX3B pipe

18' Above floor @ 16'-0" From stage edge

LX4 pipe

17' Above floor @ 18'-4" From stage edge

Outlet Boxes

(1) wall box located up stage right with (3) circuits
(1) wall box located down stage left with (3) circuits
(9) with (6) circuits each distributed in a 3x3 pattern on the grid

Instrumentation

All equipped with safety cables, color frames, and stage pin connectors

Some instruments in inventory may not currently be in service

(12) Altman 6" Fresnels – 500w

(18) Altman PAR 64's – 1000w MFL

(19) Altman 6x9 360Q ellipsoidals – 500w

(16) Altman 6x12 360Q ellipsoidals – 750w

(8) Altman 6x16 360Q ellipsoidals – 750w

(2) Altman 6x16 360Q ellipsoidals with built-in iris – 750w

(4) Altman single circuit *Sky Cyc's* – 1000w

(4) Altman dual circuit *Sky Cyc's* – 1000w

(4) Altman (4) circuit *Zip Strip* striplights – 400w per circuit

Only (2) circuits in each *Zip Strip* are currently functional

Total instruments in inventory – 87

Accessories

Side arms, color frames, template holders, donuts, twofers, cable, floor bases, Altman wrenches, uncoated tie line, stage pin lamp tester

(1) Pair of free-standing booms (additional pairs must be arranged)

Color Filters

A variety of color filters are available pre-cut and in sheets – most of the available filters are *Roscolux* brand – the acquisition of additional filters must be arranged in advance

Followspots

(2) Altman *Comet* followspots with 360w halogen lamps

Located in house left and right corners of balcony

Height above stage floor – 14'-6"

Distance from stage edge along center line – 47'-6"

Distance from center line – 29'-6"

Can be relocated to and operated from control booth in center of balcony as long as both lights *and* sound are not being operated from the booth

House Lights

(6) house chandeliers with (4) lamps each – wired to dimmer #97

(2) balcony chandeliers with (1) lamp each – wired to dimmer #98

(2) fixtures under balcony, (1) track lighting strip under balcony, (6)

sconces under balcony – all wired to dimmer #102

COMMUNICATION

Headsets

Telex system with headset inputs located throughout the theater

(8) belt packs – (7) single ear headsets – (2) dual ear headsets

Default positions are (1) stage right, (1) stage left, (2) in control booth, (1)

at each followspot position – may be reconfigured as necessary

Audio Monitoring System

(1) Shure 545L microphone hung from the grid provides monitoring to speakers in the dressing room and control booth – *no paging system available* between the control booth, stage, or dressing room

Video Monitoring

Cameras and monitors are *not available* for video monitoring – there is a coaxial cable running from the house left followspot position to stage right if video monitoring equipment is to be brought in by the user

SOUND SYSTEM

The sound system is designed to provide (2) monitor mixes from (1) front of house mixing position. If any of the following are required;

- 1) Amplification that exceeds the capabilities of the available speakers
 - 2) Significant use of compression, reverb, and other digital effects
 - 3) Additional monitor mixes or an on stage monitor mixing console
- arrangements should be made for an independent system or for the integration of additional equipment with the house sound system.

Mixing Console

Behringer *SL3242FX-PRO*

- (24) mono inputs, (4) stereo inputs, (4) subgroups
- (2) pre-fader and (2) post-fader sends OR (4) post-fader sends
- Each mono channel includes a (3) band semi-parametric equalizer
- Each stereo channel includes a (4) band stereo equalizer
- (2) built-in 24-bit multi-effects processors
- Built-in 9-band stereo equalizer (processes MAIN or AUX1 signal)
- Located in balcony level control booth – may be relocated to the balcony outside the booth if arranged in advance

Speakers

- (2) JBL AS2212 2-way speakers (600w LF – 150w HF)
Hung below the center of the proscenium in front of the grand valence
- (5) JBL Control 5W speakers 175w
Mounted along ceiling beam above the balcony edge
- (12) JBL P100 40w flush mount speaker
Installed in the ceiling underneath the balcony

Portable Speakers

- (3) Yamaha SM12III 200w Club series monitors
Outputs for monitors are located throughout the theater
- (2) Yamaha C115V 500w Club Concert series speakers
By default these are mounted on stands at each side of the proscenium but they can be relocated or removed

Playback and Recording

- (1) Numark MP102 CD/MP3 player with loop creation and pitch bend
- (1) Tascam CD-RW900SL CD recorder with auto or manual track division

Microphones

- (4) Shure Beta 58A's
- (4) Shure Beta 57A's
- (2) Shure PG58 Wireless microphones with PG4 receivers
- (3) Crown PCC-160's
- (3) Shure SM57
- (1) Shure Beta 52A

Microphone inputs are located around the perimeter of the stage

Accessories

- Various microphone stands
- Various lengths of XLR microphone cable
- Various lengths of 1/4" TRS mono speaker cable
- (2) 25' 8-Channel XLR snakes
- (2) Pro Co Model DB-1 direct boxes
- (1) Radial Pro AV-1 single channel direct box
- (6) Music stands with lights

Electrical Tie-in

- No company switch available
- (3) 20A circuits are available in the stage left sound cabinet that may be used to power an independent sound system
- Additional 15A circuits are available around the perimeter of the stage
- Special arrangements for additional power must be made in advance

FOH Mixing Position

The location of the Front of House mixing position should be arranged in advance to minimize the loss of audience seating – independent mixing consoles are typically positioned in the rear house right corner of the theater underneath the balcony or in the balcony – a custom table matching the slope of the auditorium floor is available

STAGE EQUIPMENT

Pianos

- (1) 7' Baldwin grand piano – stored on left apron
- (1) Black Acrosonic console piano – located in house

Ladders and Scaffolding

- (1) 12' Fiberglass A-frame ladder
- (1) 6' Aluminum A-frame ladder
- (1) 6' Aluminum custom A-frame ladder for FOH focusing
- (1) *UpRight* VX DW scaffolding unit for on stage focusing – stored stage left against the wall but may be disassembled and removed from the stage to increase wing space if arranged in advance

Video Projection

- (1) Dell video projector – available for rental at an additional fee
- No large video projection screen currently available – must project on small slide projector screen or on the cyclorama
- Use and configuration of the projector must be arranged in advance

Miscellaneous

Metal folding chairs, wood folding chairs with padded seats, wooden stools, folding tables, podium, slide projector screen, clip lights, piano light, extension cords, power strips, stanchions and ropes, carpet for drum set, carpet scraps, miscellaneous scenic materials including 4x8 platforms, lumber, fasteners, and painting supplies

DRESSING ROOMS

Dressing/Green Room

Only one formal dressing room – also serves as the company green room
Includes (2) changing cubicles and make-up tables with seating for (8)
Make-up tables are equipped with large well-lit mirrors
Location – back stage through the upstage right load-in doors
Dimensions – 16'x13' with 12' ceiling height
Changing cubicles – 5'6"x5'6" with 8' ceiling height

Restrooms

Located near the dressing room – the wheelchair accessible restrooms available for the audience are shared with the dressing room
No showers available on site

Laundry

No laundry facilities available on site
The nearest Laundromat is connected to *Byrne Dairy*
69 East Main Street – Open 24/7 – 607-336-7530

Additional Dressing Space

The room 106 storage space and the room 107 classroom may be equipped with chairs, tables, mirrors, and clothing racks for additional dressing space – must be arranged in advance
Room 106 – approximately 300 square feet
Room 107 – 638 square feet – 29'x22'
It may be possible to arrange for more dressing or green room space in special circumstances – must consult with staff and arrange in advance

CLOSING

Please contact the Technical Director of the Chenango Arts Council with questions regarding the Martin W. Kappel Theater technical information. Contact information for the Chenango Arts Council is available on the cover page of this technical information. Additional technical documents are also available and include the following:

1. Stage and theater drawings (ground plan and elevation)
2. Interface drawings (location of electrical, lighting, and sound interfaces)
3. Sound system diagram (details the setup of the house sound system)
4. Repertory lighting plot (illustrates basic lighting configuration)

Martin W. Kappel Theater Technical Information

REVISION HISTORY

Below is a history of all revisions made to the Martin W. Kappel Theater technical information. This table is provided to help track and communicate changes made to the technical information. Check this table to identify the latest revision.

Revision	Date	Editor	Changes
A	8/23/08	MAG	-New cyclorama fixtures added to instrumentation -Information on free-standing booms updated -References to other documents updated -New revision system implemented
B	9/1/09	MAG	-Added new sound equipment (CD player, CD recorder, microphone stands, AV-1 direct box)
C	8/17/10	MAG	-Made a couple minor adjustments to Telex and Electrical Tie-In information
D	2/25/13	MAG	-Updated cover logo and organization name -Made modifications throughout -Expanded load-in description -Updated lighting inventory -Corrected grid circuit box error -Added B pipe lighting positions -Updated microphone and accessories lists -Updated Laundromat information