



**AUDIO INVENTORY**

| SOUND SYSTEM INVENTORY  |                                     |   |
|---|-------------------------------------|---|
| QUANTITY  | MAKE AND MODEL                      | USE   |
| 34  | D&B V8 Speakers                     | Mid-High – L/R and Center Arrays  |
| 4   | D&B V12 Speakers                    | Mid-High – L/R and Center Arrays  |
|   |                                     | *both L/R and Center Arrays hang via (2) 1T motors (per hang) and are located 3’8” downstage of the stage edge            |
| 8   | D&B V-Sub Speakers                  | Center Array – (4) speakers hang via (1) 1T motor per side of the Center Mid-High Array                                   |
| 8   | D&B V-Sub Speakers                  | Floor supported in L/R stage configuration  |
| 4   | D&B Y10P Speakers                   | <i>Available</i> as Front Fill Speakers<br>Positioned evenly across the DS edge of stage                                  |
| 2   | D&B V7P Speakers                    | <i>Available</i> as Outer Fill Speakers   |
| 10  | D&B Yi7P Speakers                   | Under Balcony Delay Speakers<br>2 delay rings of 5 speakers for each ring   |
| 4   | D&B Yi7P Speakers                   | Balcony Edge Fill Speakers<br>2 per side located at the front of balcony seating  |
| <i>Under Balcony and Balcony Edge Speakers will be installed on 4/1 – Email Production about current system</i> |                                     |   |
| 3   | D&B Y10P Speakers                   | <i>Available</i> as Stage Apron Foldback System   |
| 6   | JBL 4604B                           | <i>Available</i> as stage monitor wedges  |
|   | D&B 30D Amplification               | Center, L/R Arrays, Under Balcony Delays, Front Fills, Outer Fills, and Balcony Edge Fills will all be adequately powered |
|   | D&B 80D Amplification               | D&B Subwoofers will be adequately powered   |
| 1   | Motion Labs Install Series          | 8 Motor Control System for Center and L/R   |
| 1   | Auvitran AVBx7                      | Dante Network Interface   |
| 1   | Microsoft Surface Pro4 i7 Processor | D&B R-1 platform – Amplification<br>Auvitran AVS monitoring software<br>Dante Network Controller Software                 |

The sound system can be fed using either Analog Audio or AES-3 Digital Audio, up to 8 channels of each type.

There are 7 locations available for clients to interface into the sound system:

- Lower Audience Mix (Rock and Roll Mix), Upper Audience Mix (Broadway Mix), Downstage Left, Downstage Right, Upstage Left, Upstage Center, and Upstage Right

Of the 7 locations listed above, 6 of those have Single-Mode Optical Fiber access.



**FOH SOUND AND COMM INVENTORY**

| FOH SOUND INVENTORY |  |   |
|---------------------|--|---|
| QUANTITY            | MAKE AND MODEL                                 | USE AND LOCATION  |
| 1                   | Yamaha PM-5D – EX 96 Channels<br>Version 2, RH | Main Console – FOH Booth<br><b>SOUND CONSOLE IS A PERMANENT INSTALL IN<br/>AN OPEN BOOTH LOCATED AT THE REAR OF<br/>THE ORCHESTRA</b> |
| 1                   | Yamaha Dugan-MY16                              | 16 channels of automatic mixing for Yamaha<br>PM-5D – FOH booth   |
| 1                   | Yamaha PW 4000 Power Supply (Main)             | FOH booth   |
| 1                   | Yamaha PW 4000 Power Supply<br>(Secondary)     | FOH booth   |
| 1                   | Yamaha PW 4000 Power Supply (Spare)            | FOH booth   |
| 1                   | Denon DN-F65R Hard Disc Player                 | FOH booth   |
| 2                   | Mackie HR 824 Monitor Speaker                  | On Meter Bridge of PM-5D  |
| 1                   | Denon DN-D4500, Dual CD & MP3 Player           |   |
| 1                   | Tascam MD-350, MiniDisc Player                 | FOH booth   |

| BASE STATIONS |                |                               |
|---------------|----------------|-------------------------------|
| QUANTITY      | MAKE AND MODEL | USE                           |
| 1             | MS704          | 4 channel base station        |
| 1             | RS702          | 2 channel remote base station |

| WIRELESS AND WIRED COMM |                         |                       |
|-------------------------|-------------------------|-----------------------|
| QUANTITY                | MAKE AND MODEL          | USE AND LOCATION      |
| 4                       | HME BP200               | Wireless Belt packs   |
| 5                       | HS15                    | headsets              |
| 1                       | DX200 with base station |                       |
| 4                       | Clear Com HS-6          | Telephone hand set    |
| 16                      | Clear Com C-C95         | Single muff head sets |
| 8                       | Clear Com CC-260        | Double muff head sets |
| 6                       | Clear Com KB-702GM      | 2 channel biscuits    |
| 2                       | Galaxy PA5XD            | Powered hot spot      |



**MICROPHONE INVENTORY**

| QUANTITY | MAKE AND MODEL                                      | NOTES  |
|----------|---|--|
| 1        | Audio Technica 4033                                 |  |
| 4        | AKG 414   | 3 – B-UL, 1 – B-XLII   |
| 1        | Barcus Berry 4000 Pick Up                           |  |
| 4        | Crown PCC 160                                       |  |
| 1        | EV RE 20  |  |
| 2        | Realistic PZM                                       |  |
| 6        | Sennheiser 421-u                                    |  |
| 8        | Shure SM - 58                                       |  |
| 19       | Shure SM-57   |  |
| 1        | Shure Beta 57                                       |  |
| 3        | Shure SM-58 Switched                                |  |
|          | 6 channels of UR4 wireless                          | 6 – UR1 body transmitters<br>6 UR2 hand held with 6 beta 87A and<br>/or 5 SM 58 capsules |
| 6        | Countryman Isomax E6                                | Omni Lavalier  |
| 1        | AKG C1000S  |  |
| 1-pair   | AKG C451B   | Matched set  |
| 2        | Audio Technica 8533                                 | Hanging Microphone   |
| 2        | Shure SM 81   |  |
| 2        | Behringer ECM 8000                                  |  |
| 6        | Whirlwind DI  | Passive DI   |
| 6        | Countryman Type 85 DI                               | Active DI  |
| 1        | A.E.S MC 220 DI                                     | Active DI  |
| 1        | Whirlwind IMP Microphone<br>Combiner                | 2 X 1 Passive  |
| 1        | Sennheiser E614 condenser<br>microphones            |  |
| 2        | Shure Beta 87A vocal<br>microphones                 |  |
| 6        | Audio-Technical Pro 45<br>Hanging choir microphones |  |
| 3        | Whirlwind PCDI interface box                        |  |
| 2        | Sennheiser KG/ME 66                                 | Shot Gun Mics  |



**INTERIOR AUDIO DISTANCES**

BACK OF HOUSE: LIGHTING AND AUDIO POSITION (136' from edge of stage, 12' x 20')  
 BROADWAY MIX POSITION: AUDIO ONLY (124'3" from edge of stage, 8'5 3/4" x 14')  
 CENTER HOUSE MIX POSITION: CONCERTS ONLY (77'10" from edge of stage, 25' wide max 9' 6" deep)  
 OUT TRIM OF THE CENTER CLUSTER: Stage to the bottom 37'6"

| FROM                           | TO                       | FEET     | METERS | MILLISECONDS | DEGREES | Electronic Delay |
|--------------------------------|--------------------------|----------|--------|--------------|---------|------------------|
| Cluster                        | Underbalc Center         |          |        | 51.27        |         | 61.27 ms         |
| Cluster                        | Underbalc Outer          |          |        | 54.08        |         | 64.08 ms         |
| Cluster                        | Front Row Orchestra      | 42' 7.5" |        |              | 168     |                  |
| Cluster                        | Balcony Rail             | 54'6"    |        |              | 140     |                  |
| Cluster                        | First Dress Row A        | 78'10"   |        |              |         |                  |
| Cluster                        | Second Dress, Row M      | 116'     |        |              |         |                  |
| Cluster                        | Gallery, Row T           | 136'     |        |              |         |                  |
| Cluster                        | Inside Surface of Altecs |          |        |              |         |                  |
| Cluster                        | Point of Bridge Cluster  |          |        |              |         |                  |
| Downstage Corner of Proscenium | Underside of Cluster     | 53'9"    |        |              |         |                  |
| Center Downstage               | Underside of Cluster     | 36'7"    |        |              |         |                  |
| Center Downstage               | Balcony Rail             | 59'8"    | 18.18  | 53.25        |         |                  |
| Center Downstage               | Orchestra Pit Wall       | 19'2"    | 5.84   | 17.14        |         |                  |
| Center Downstage               | First Row, Orchestra     | 23'6"    | 7.16   | 21           |         |                  |
| Center Downstage               | Rock-& Roll Mix Position | 77'10"   | 23.72  | 69.53        |         |                  |
| Center Downstage               | Rear of House Mix Wall   | 134'1"   | 40.87  | 119.65       |         |                  |
| Center Downstage               | Rear of House Position   | 139'6"   | 42.52  | 124.68       |         |                  |
| Center Downstage               | Jackfield of PM-4000     | 137'2"   | 41.81  | 122.59       |         |                  |
| Center Downstage               | Center of Altecs         | 48'1"    | 14.66  | 42.92        |         |                  |
| Center Downstage               | Point of Bridge Cluster  | 61'10"   | 18.85  | 55.24        |         |                  |
| Center Downstage               | Underbalc Center         |          |        |              |         |                  |
| Center Downstage               | Underbalc Outer          |          |        |              |         |                  |
| Balcony Rail                   | Gallery, Row T           | 91'10"   | 27.9   | 82.07        |         |                  |
| Movie Center Mid/High          | Underbalc Center         |          |        |              |         |                  |
| Movie Center Mid/High          | Underbalc Outer          |          |        |              |         |                  |



## FOX THEATRE SURROUND SOUND SPEAKER SYSTEM

26 evenly-spaced speakers around the periphery of the auditorium  
14 Orchestra level  
12 balcony level

Drivers and 70V transformers upgraded spring of 2013.  
New speakers are Great Plains Audio 212-8A, 2-way coaxial with internal passive crossover.  
12" low frequency woofer, aluminum-alloy high frequency diaphragm loaded by a 90° exponential horn.

Power rated at 300 watts continuous band limited (40 Hz – 16 kHz)

Driven by 8 channels of Crown ComTech 1610 amplification, 70V distributed.

Each cabinet has an Altec/ElectroVoice 75-watt 70 V transformer.

Speakers paralleled into 4 separate zones:

House Left (side) – upper and lower  
House Left (rear) – upper and lower  
House Right (rear) – upper and lower  
House Right (side) – upper and lower

Each zone is separately capable of 85 dBC pink noise level, no clipping, at center of auditorium.

Must send 4 separate line-level signals to Fox in-house mixing board to address all zones.