



Technical Data

Benson Great Hall

Contact Information

Kyle Sherer	Conference and Rentals	651-638-6475
Doug Briggs	Manager Benson Great Hall	651-638-6795
Kerri Baker	BGH Technical Service Manager	651-638-6239

Stage Dimensions (See floor plan)

Upstage Wall Width 50'
Downstage Width 69'
Off Stage Left and Right Depth 29'
Center Stage Depth 34'

Stage Dimensions With Stage Extension

Upstage Wall Width 50'
Downstage Width 69'
Off Stage Left and Right Depth 37"
Center Stage Depth 41'

Stage Entrances

Upstage Center doors 9'10" Wide 9'8" High
Off Stage Doors left and Right 7'10" Wide X 9'8" High

Company Switch

400 Amp 3 phase 208 volt switch located Stage left platform support
220 Amp 3 phase 208 volt switch located stage right loading dock

Loading Dock

3' High dock
10' wide x12' High Door
Cable Runs For Video
Mic Line Junction Box
200 Amp Company Switch

Sound System:

Midas Heritage 2000

48 channel - 44 mono/4 stereo
Stereo: All inputs wired for stereos
EQ: 4 band fully-parametric
Direct Output: Front panel switchable and level control SIS panning with IMAGE control
12 Aux Sends
12 Audio Sub Groups
10 VCAs
10 Automute groups
15 x 8 matrix
Automation: snapshot automation of VCA routing, mutes, all channel and VCA levels



Technical Data

Benson Great Hall

Effects:

BSS 1/3 Octave Graphic Equalizer For Mono Main
BSS Stereo 1/3 Octave Graphic Equalizer For Stereo Mains
BSS Stereo 1/3 octave Eq for monitors
Yamaha SPX-990
8 - Channels of BSS Compression
8 - Channels of BSS Gates
HB CDR Deck

Speakers:

Stereo Right and Left Cluster
d&B Q Line array r
Subs
d&B Q subs
Under Balcony
Altec 408-8t
Stage Fill
d & B E0

Amplifiers

d & B D12 Amplifier
d & B D6 Amplifier
Crown Com-tech

Monitors

2 Yamaha SM12HII (12" Driver 2" Horn)
4 JBL MR805(15" Driver 2" Horn)
2 JBL MR905(15" Driver 2" Horn)
(Monitor Mixes are all Front of House)

In Ear Monitor

10 Aviom Stations with Shure E2 earbuds

Microphones

Shure Beta 57	Shure Beta 58
Shure Beta 87	ATM33R
Crown PCC 160	Shure SM-81
AT4051	Shure Beta 98
Shure KSM -32	Beta 56
AKG D112	Neumann KM184
Neumann KM100 (4 Cardioid, 2 Super Cardioid Capsules)	

Wireless Microphone

Hand Held Shure UHF R W/ BETA 87 head
Lapel Shure UHF R (Can not be used at same time as hand held (s))
Countryman E6 Headset Mics



Technical Data

Benson Great Hall

Other Audio:

Hearing Impaired System

Williams Transmitting System

Stage Manager Panel

Paging System

Dressing Room Page

Platform Support Page

Intercom

Clearcom

Video System

Sanyo PL6fc 6500 ANSI Lumens projector

Panasonic MX70 Switcher

Kramer switcher

Computer Interface

Macintosh (Pro Presenter, PowerPoint, Keynote)

PC (PowerPoint, Media Shout)

JVC BR-HD50 Mini Dv, DV, HDV Deck

Panasonic 50' Plasma screen

Projection Screen

10x15 Rear Projection Screen

20'x15' Portable Rear projection Stumpfl screen

Other

Remote Point USB Wireless remote

Magenta Research CAT5e video delivery system

Lighting

Light Board

ETC Insight IIx

Martin Light Jockey

Light Fixtures

Colortran 5 ° ERS

Colortran 15 ° ERS

Colortran 30 ° ERS

Colortran 8" Fresnel

Altman Par 56

ETC ParNel

ETC Source 4 19°

ETC Source 4 36°

Colortran 10 ° ERS

Colortran 20 ° ERS

Colortran 40 ° ERS

Altman Par 64

ETC Source 4 PAR

ETC Source 4 10°

ETC Source 4 26°

ETC Source 4 50°



Technical Data

Benson Great Hall

Specialty Lighting Fixtures

Martin MAC 500

Martin Stagebar 56 LED

Followspots

2 Lycian

GEL

Variety of Colors Available

Patterns

Variety Available

Soft Goods

18' x 32' White Drop

30' x 60' White Drop

14' x 12' White Drop

12' x 8' Black legs (50% Fullness)

12' x 14' Black Legs (50% Fullness)

30' x 12' Black Legs (50% Fullness)

25' x 40' Black commando cloth Drop

30' x 40' Black Commando cloth Drop

Various shape fabrics

Aluminum Screen Material

Rigging

3 - Electric Line sets w/ 32' Flat Trusses (2 Extender Bars to make 1 line set 40')

8 - 10'x12" Box truss

2 - 1 ton Motors with motion lab control

Staging

Platforms

4' x 8' 4' x 6'

3' x 8' 3' x 6'

3' x 3' 4' x 4'

Legs in 14 inch increments up to 110 inches, and safety rails.

Choral and Band Equipment

Wenger Concept II Standing Risers (4 step with safety rail)

Wenger legacy shell

Music Stands (Conductor, and Musician)

Chairs (Orchestra and Choir)

Instruments

Reasoner Drum Kit

9' Steinway Concert Grand

9' Baldwin Grand

Blackonton Pipe Organ



Technical Data

Benson Great Hall

Other Information:

Seating Capacity

Main Floor:

Permanent Seats: 860

Temporary Seats: 78

Main Floor Capacity: 938

2nd Floor Seating

Permanent Seats: 634

Choir Seating: 137

2nd Floor Capacity: 771

Total Seating Capacity : 1709

Total Seating Minus Choir Seats: 1572

Stage, and Stage extension square footage:

Stage: 1624

Stage With Extension: 2322

First floor theatre seating square footage:

Fixed Seating 6630

Fixed Seating and Temporary seating: 6864

Second floor, and choir loft square footage:

Balcony: 5184

Choir Loft: 1216

Hall Dimensions

Width:

Orchestra Center Width: 57' 4"

Side Terrace North width: 10' 4 1/2"

Side Terrace South width: 10' 4 1/2"

Total Hall Width: 78' 4"

Length:

Stage to back orchestra center: 57'

Stage to back of terrace: 79'

Audio and Video Input/Output Locations

House Right Main Floor (Mic, monitor output, intercom, BNC video)

House Left Main Floor (Mic, monitor output, intercom, BNC video)

Down Stage Left (Mic, line level monitor output, intercom, BNC video, BNC RGB video)

Down Stage Right (Mic, line level, monitor output, intercom, BNC video)

Off Stage Right (Mic, monitor output, intercom, BNC video)

Off Stage Left (Mic, monitor output, intercom, BNC video)



Technical Data

Benson Great Hall

Down Stage front Right ((Mic, monitor output, intercom, BNC video, CAT5e video)
Down Stage front Left ((Mic, monitor output, intercom, BNC video, CAT5e video)
Upstage Center ((Mic, monitor output, intercom, BNC video)
Loading Dock ((Mic, monitor output, intercom, BNC video)
Second floor House Right center (Mic, monitor output, intercom, BNC video)
Second floor House Left center (Mic, monitor output, intercom, BNC video)
Choir Loft Right (Mic, monitor output, intercom, BNC video)
Choir Loft Left (Mic, monitor output, intercom, BNC video)
Accoustic Canopy (Mic, monitor output, intercom, BNC video)
Catwalk Right (Mic, monitor output, intercom, BNC video)
Catwalk Left (Mic, monitor output, intercom, BNC video)

Cable Runs for audio or video

- 6" Conduit runs from stage to house postion
- 6" Conduit runs from house to control room
- 6" Cable pass through from loading dock to oiutside
- 6" Cable pass through floor from first to second floor from loading dock
- 6" Cable run through wall from loading dock to backstage
- 6" cable runs through the floor from backstage to second floor
- 6" Cable runs through walls into house first and second floor



Technical Data

BLACKINTON ORGAN SPECIFICATIONS

SOLO (Under Expression)

Diapason	8'
Solo Flute	8'
Flute Celeste II	8'
Oboe	4'
Traverse Flute	4'
Nazard	2 2/3'
Super-Oboe	2'
Flute	2'
Flute	1 3/5'
Quint	1 1/3'
Tuba	16'
Tuba	8'
Tuba Clarion	4'
English Horn	8'
Corona (Gr)	8'
Clarin	8'
Trombon	8'
Herald Trumpet (Gr)	8'

SWELL (Under Expression)

Geleckt	16'
Geigen Principal	8'
Geleckt	8'
Viole D'Gamba	8'
Viole Celeste II	8'
Oboe	8'
Geigen Oboe	4'
Chimney Flute	4'
Violon	4'
Violon Celeste	4'
Nazard	2 2/3'
Doublette	2'
Flute	1 3/5'
Mixture IV	
Basson	16'
Trompette	8'
Clarin	4'
Oboe	8'
Vox Humana	8'
Trombon	8'
Herald Trumpet (Gr)	8'

GREAT (Exposed)

Violone	16'
Principal	8'
Violone	8'
Basson	8'
Harmonic Flute	8'
Geleckt	8'
Geleckt Celeste (t.o.)	8'
Oboe	4'
Flute-Oboe	4'
Twelfth	2 2/3'
Super Oboe	2'
Blockflute	2'
Oboola	1'
Mixture IV	
Schorff II	
Corona Trumpet	16'
Trompet	8'
Clarin	4'
Corona	8'
Tuba (So)	8'
Herald Trumpet	8'
Cymbalstern (Prepared for)	

PEDAL (Exposed)

Corona Principal	32'
Principal	16'
Violone (Gr)	16'
Basson	16'
Geleckt (Sw)	16'
Oboe	8'
Basson	8'
Geleckt (Sw)	8'
Choralbass	4'
Flute	4'
Mixture IV	
Corona Basson	32'
Basson	16'
Tuba (So)	16'
Basson (Sw)	16'
Basson	8'
Corona	4'
Herald Trumpet (Gr)	8'

COUPLERS:

Swell to Swell	16'
Swell to Swell	4'
Swell to Violon	8'
Solo to Swell	8'
Solo to Solo	16'
Solo to Solo	4'
Solo to Violon	8'
Solo Chorus Off	
Swell to Great	16'
Swell to Great	8'
Swell to Great	4'
Solo to Great	16'
Solo to Great	8'
Solo to Great	4'
Great to Pedal	8'
Swell to Pedal	8'
Swell to Pedal	4'
Solo to Pedal	8'
Solo to Pedal	4'

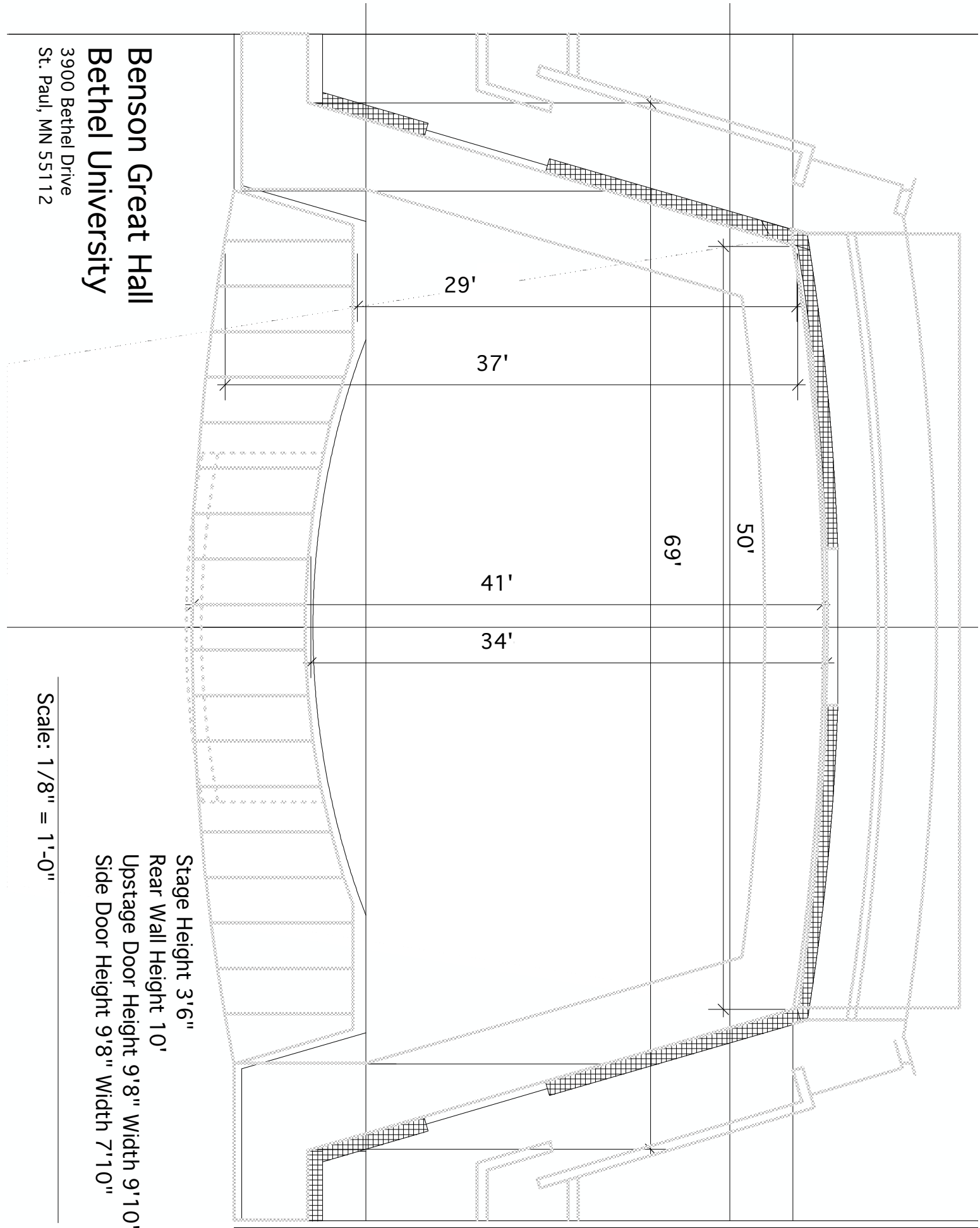
32 Memory Capture Action
 12 General Pistons
 6 Divisional Pistons
 Tutti

ORGAN BUILDERS

- Lyle Blackinton
- Ray Britt
- Harold Doerr
- Roxy Load
- Randy Miller
- Dale Sorenson

Benson Great Hall Bethel University

3900 Bethel Drive
St. Paul, MN 55112



Stage Height 3'6"
Rear Wall Height 10'
Upstage Door Height 9'8" Width 9'10"
Side Door Height 9'8" Width 7'10"

Scale: 1/8" = 1'-0"