

Sloan Performing Arts Center



407 Alumni Road Rochester, NY 14627

Technical Specifications

Version 3

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Building Information

Standard Building Hours:

Fall & Spring Academic Semester the building is unlocked Monday-Friday 7:00am-9:30pm

Weekends, Evenings & Event Times the building will be unlocked on an as needed basis 30 minutes prior to start of reservation & locked 30 minutes after the reservation.

The building is locked during all University Breaks & Holidays outside scheduled event times.

To arrange for additional access contact the Building Operations Manager.

Lobby:

Located off main building entrance accessible via front ramp area or stairs

Approximately 2,180sf with movable furniture.

Public restrooms are located one level down accessed via a straight stair or elevator.

The box office/concessions area is an all one continuous counter, approximately 30' long curved at one end to the wall.

Amenities: Sink, small water cooler on wheels

Furniture: (10) lounge chairs, (5) 2' round lounge tables, (3) Café 36" round tables, (12) Café chairs, (2) 30" High top round tables
(4) Bar height chairs

Greenroom:

Located in the basement across from the Dressing Rooms

Access via lobby straight stairs, elevator (both shared access with public & lobby) or backstage winding staircase

Amenities: (1) Top and bottom fridge with in door water, ice & freezer, (1) Microwave, (1) Keurig coffee maker, (1) Sink

Furniture: (2) Café rounds, (7) Café seats, (5) Rolling/foldable 5'x2' tables, (8) Rolling chairs, (4) Counter height chairs, (1) Counter height seating area

Notes: All perishable & service items to be provided by end user (food, drinks, cups, flatware, plates...).

All items should be labeled for the event/people they are for & Date, otherwise they will be assumed common goods.

Fridge will be cleaned Bi-Weekly, any non-labeled/expired items will be disposed of.

Used as classroom until 5:00pm Monday-Friday, special accommodations will be made if possible for use during this time.

Dressing Rooms:

Located in the basement across from Greenroom

Access via lobby straight stairs, elevator (both shared access with public & lobby) or backstage winding staircase

(2) Identical 12 station accessible dressing rooms A & B

Amenities (each room): (12) Stations with lighting & mirrors, Single occupancy accessible restroom with sink & toilet, Single occupancy shower room, Sink, Lockers available upon request

Furniture (each room): (12) Rolling chairs, (3) 7' Wenger clothing racks

Notes: All perishable & service items to be provided by end user (towels, soap, shampoo, hair products, blowdryers...)

Laundry:

Located in the basement adjacent to the green room & dressing rooms

Access via lobby straight stairs, elevator (both shared access with public & lobby) or backstage winding staircase

Amenities: (2) Front load GE high efficiency residential washers, (2) Front Load GE high efficiency residential dryers, (1) Vulcan clothing dye vat, (1) GE topload washer specific for dye vat, Deep basin stand alone sink, counter insert sink, (1) Jiffy portable steamer

Full laundry use can be arranged with advanced notice.

Notes: All perishable & service items to be provided by end user (dryer sheets, dye...).

Detergent is provided by Venue (Amazon Basics Free & Clear or equivalent).

Wardrobe:

Located in basement adjacent to the green room & dressing rooms

Access via lobby straight stairs, elevator (both shared access with public & lobby) or backstage winding staircase.

Full costume shop use can be arranged with advanced notice & agreement with theatre department.

Wardrobe support can be arranged with advance notice & agreement with theatre department.

Loading Dock:

Loading is through the scene shop. Dock door is 8'-0" wide 12'-0" high. Dock height is 2' - 2'-3" high. There is a roll up door out of the shop and large hinged doors to provide access to the stage, same size or larger.

All loading in/out must be coordinated with Operations Manager and arranged with scene shop manager.

Scene Shop:

Located on first floor across from the theatre.

Large overhead door provides access to loading dock area.

Managed by Theatre Program.

For access & use of space contact Operations Manager for coordination with Theatre Program.

Prop Shop:

Located in the basement level of the building accessible VIA elevator or stairs.

Standard height double doors allow for movement of wide furniture & prop items.

Contains small hand tools, basic power tools, industrial sewing machine, & bench style spray booth for small objects.

Managed by Theatre Program

For access & use of space contact Operations Manager for coordination with Theatre Program.

Costume Shop:

Located in the basement level of the building accessible VIA elevator or stairs.

Standard height double doors allow for movement of costume racks.

Contains several sewing machines, serger machine, cutting station, & curtained fitting area.

Managed by Theatre Program

For access & use of space contact Operations Manager for coordination with Theatre Program.

Conditioning Lab:

Located in the basement level of the building accessible VIA elevator or stairs.

Standard height single door.

Dance area is sprung plywood floor covered with Harlequin Cascade dance floor.

Managed by Program of Dance & Movement.

For access & use of space contact Operations Manager for coordination with Program of Dance & Movement.

Theatre Information:

Overview:

Smith theatre is a flexible use black box space, stage area and size are variable dependent on diagram, desired use, and seating requirements for each event. Seating is telescoping risers at stage level with loose chairs. Risers are not removable from the space.

Room Size: 70'-0" x 50'-0"

Stage Size: Variable

41'-5" clear from face of gallery to face of gallery

Height: 21'-0" to the underside of the catwalks

19'-0" to underside of side galleries

31'-6" to underside of roof steel

Doorways: Enterances & exits are located in the four corners of the space. Doors on North wall (lobby side) have a light lock, doors on South wall (shop side) empty directly into the backstage hallway.

Storage: Two storage locations are under the technical/actor mezzanine on the North wall (lobby side). The storage double doors open into the main space, these doors must be kept accessible at all times. See ground plans for exact location.

Stage Floor:

Stage floor is a resilient assembly of rubber puck, wood sleeper, plywood layers with hardboard (Masonite) top sacrificial surface. Drilling and screwing IS allowed with permission.

Painted twice a year with Rosco Tough Prime Black

Events requiring the painting of the floor outside of standard black must purchase and install a show floor (Masonite or the like)

Design load: 150 PSF with 2,000lb point load.

Catwalks:

There are 5 catwalks 3'-10" wide out to out

8'-2" clear between catwalks

There are galleries on 3 sides; East side is 6'-10" wide , North side is 4'-3" wide , south side is 7'-2" wide

See the plans for additional details.

Rigging Beams:

(4) rigging beams running the full length of the venue, perpendicular to the catwalks on 8'-0" centers, splitting center, two on each side of center line.

Beams are designed for 2000lb point load, max 4 loads per beam (8,000lbs) , no closer than 4 feet on center, no more than 12,000lbs total across all beams.

All Rig points will be verified due to overhead obstructions & alternates provided if desired points are not achievable.

There is strut below the beams in the two bays furthest to the west, where obstructions prevent access to the beam itself. The strut load is designed for 1 point load NOT TO EXCEED 1100lbs on the short piece and 530lbs on the longer piece.

Additional rigging points can be requested and will require engineer evaluation and sign off.

Wall Strut:

Horizontal strut is located on the perimeter walls (all 4 sides) starting 4 feet above the floor and 4 foot on center.

Design load is point load of 500lbs with no more than 6 loads per strut no closer together than 3'-0".

Mezzanine:

There is a technical and performer Mezzanine on the south side accessed via a ships ladder. The stage face is a demountable railing in sections each approximately 3'-0" wide.

Arrangements must be made in advance to remove the railings.

Audience is **NOT** permitted on the Mezzanine.

Water & Air on Stage

Cable passes provide access to janitor closet on North side and scene shop.

Discuss requirements in advance.

Use of any water effects or body of water on stage for productions will require at minimum 6 months advance notice

Show Power:

Catwalk North East: (1) 200A 3ph 120/208V Camlock company switch with split neutral. Can accept bare end 4/0 tails.

Male connector: Ground (green) & Neutral (white)

Female connector: Hot phases (black, blue, red)

Catwalk South East: 100A 3ph 120/208V pin and sleeve

Motor Power

L21-30 receptacle located center of each catwalk section

Seating

Seating utilizes two portable telescopic units with rows of seating possible, 16.5" row to row height, chairs are loose & padded.

Fixed aisle located on each side when combined, or on a single side per unit when broken into two sections.

Riser Capacity

Configuration	Chairs Row 1-7	Chairs Row 8	Total Chair Count	ADA Seating	Notes
Combine	19	23	156	Row 1 only, will need to remove 3 seats per instance	Row 1 is at house stage level
Section A	9	11	74	Row 1 only, will need to remove 3 seats per instance	Row 1 is at house stage level
Section B	9	11	74	Row 1 only, will need to remove 3 seats per instance	Row 1 is at house stage level

Total count calculated with full riser deployment

To calculate event capacity multiply number of rows required by 9 or 19 depending on configuration

Additional rows may be placed in front of row 1 at stage level with prior approval, dependent on staging requirements

Ground seating or picnic/blanket style seating is not permitted

Riser minimum spacing from back wall is 1'

Dance Floor:

5 rolls of Harlequin Cascade flooring are available (78.7" wide 44' feet long). Black.

Floor needs to be taped down.

Screwing or stapling through dance floor is not permitted.

Sharp props or scenic objects that may harm the dance floor are not permitted.

No additional sprung floor panels are available (full theatre floor is sprung, see stage floor above for additional details).

Must be requested in advance of load in.

Safety & Working:

General Requirements:

All load in, load out, lighting, sound and work periods fall under the OSHA (Occupational Safety & Health Administration) construction and all proper standards for assigned tasks must be met. OSHA does not have jurisdiction over non-paid workers/students, however, is the MINIMUM safety standard that must be followed for a safe working environment.

Standards may be found online at:

<https://www.osha.gov/laws-regs/regulations/standardnumber/1926>

Regulations will be broken up into the following three periods:

- Work period.
- Rehearsal period.
- Show period.

The Operations Manager will work with each program (Dance, Music, Theater) to assist with all building technical needs; however, the ultimate supervision and training must be provided by the professor of record for any curricular production. Any discrepancies in training and expectations will be documented and addressed by both the Operations Manager and the professor of record.

Supervision:

Trained/qualified Staff/Faculty:

- A person who holds a recognized degree within the field or has by means of demonstrated proficiency and experience shown competency within the area to be supervising & training.

Trained/qualified student is defined as:

- A student who has completed the following course & lab hours in the area to supervise, under the direct supervision of qualified staff/faculty member:
 - o Lighting & Sound - (Respective Class) + Lab Hours
 - o Costume Shop - (Costume Class)
 - o Scene Shop/Prop Shop - (Scene Shop Class) + Lab Hours
- OR
- A student who has completed the following hours of work in the area to supervise, under the direct supervision of qualified staff/faculty.
 - o Lighting & Sound – 60 Hours
 - o Scene Shop & Prop Shop – 60 Hours
 - o Costume Shop 30 Hours

Work periods

Considered to be all shop calls, load in, load out, lighting, sound and projection hang.

General Work:

- Student work times must be scheduled with the qualified department supervisor (Dance, Music, Theater, etc.)
- Department supervisor will enter work times into EMS.
 - o Trained students will be provided building & space access for the current semester.
 - All Keys will be signed out & returned to Operations Manager.
 - o Students must perform work in groups of no less than two and are never to be working alone within the space.
 - One must be the trained student supervisor; the others may be lab/class students.
 - Each person may work on a separate project within the same space.
 - o When working without a staff/faculty supervisor present, a check in schedule should be kept with the staff/faculty supervisor.
 - o Upon completion of work/end of day students will check in with the staff/faculty supervisor letting them know they have left for the day & locked up.
- All proper PPE (personal protective equipment) for tools and equipment must be used when working.

- It is up to the staff/faculty supervisor to know and train the workers on the proper PPE for assigned tasks & enforce its use.
- Examples: Eye protection, hearing protection, dust masks, gloves, hard hats...
- Minimum workplace requirements
 - Closed toe sneakers or boots (**No flip flops, sandals or croc style footwear**)
 - Pants or shorts & shirt- Should be tighter fitting to avoid getting caught in machinery.
- The moving and setup of all building equipment will be scheduled with and supervised by Sloan PAC Staff or staff/faculty who has been trained by Sloan PAC Staff.
 - Presenting department will furnish trained workers to assist under the supervision of department staff/faculty representative.
 - If needed, over hire will be arranged at the expense of the presenting department.
- The following tasks can only be completed by those trained by Performing Arts Center Staff:
 - Moving of lighting console.
 - Moving of audio mixer.
 - Moving of building computers.
 - Vertical lift operation.
 - Scissor lift operation.
- The following tasks can only be completed by or under the direct supervision of Performing Arts Center Staff:
 - Working with high amperage power services for temporary power distribution.
 - Tie-in of dimmer rack.
 - Energizing/deenergizing 3 phase power disconnect.
 - Rigging of chain hoists & truss systems
 - Making appropriate connections to structural steel.
 - Energizing hoists.
 - Making appropriate connections to truss.
 - Checking of all hoist functions.
 - Running of multiple hoists to trim height.
 - Removing of hoists to storage locations.
 - Hanging of large moving lights requiring rope, pully, lift & team of four people.
 - Hanging of large speakers requiring rope, pully, lift & team of four people.
 - Moving & set up of building seating risers.
- The Operations Manager and/or qualified professional staff/faculty will check all rigging installed overhead.
 - Making sure all best practices are followed for overhead hoisting.
- The Operations Manager has ultimate decision-making responsibilities for all on site safety matters.
 - Is overruled by EHS who have ultimate purview over matters of safety.
 - Operations Manager will work with EHS to provide knowledge regarding best practices in a temporary theatrical environment & documentation when needed around those practices.

Working at Heights:

- At no time will students be allowed to work at heights more than 8' from floor without trained supervision, this includes:
 - Ladders, Scaffolding, Lifts and Grid/Catwalk work.
 - Scale will be as follows:
 - Ladders < 10' – In building.
 - Ladders > 10' – In room.
 - Scaffolding – In room.
 - Lifts – In room.
 - Grid/Catwalk general work (cabling/prep) – In building with check ins.
 - Grid/Catwalk hang/rigging work – In room.

- All scaffolding & ladders must be checked by qualified professional staff at the start of shift.
 - o Scaffolding must be constructed by qualified professional staff.
 - o Lifts have initial pre-op inspection from qualified professional staff.
 - User must also follow pre-use inspection procedure prior to use.
- Hard hats must be worn during all load in/out & work calls when work is actively taking place overhead.

Rehearsal period

Considered to be any rehearsal both technical and cast only.

- Daily rehearsals
 - o Must be scheduled with Operations Manager.
 - Two weeks prior to first onsite rehearsal Stage Manager & Operations Manager will have a meeting to go over building rules, expectations & processes.
 - o Stage manager will be provided a key to the theatre & building card access.
 - o Stage manager will be provided proper training on startup/shut down of space.
 - o Should involve any technical elements that are out of the ordinary.
 - o Should involve any technical elements that require adequate time to maintain safe and appropriate blocking.
 - If the involvement of the elements is impractical, a detailed marking/tape out of the elements combined with a spotter would be sufficient.
 - All elements must be completed as designed for use upon actor put in.
 - IE Raised platform with no edge, stairs with no railing ext....
 - o It is expected that the rehearsal only take place in the designated area.
 - At no times should anyone enter the catwalk area unless previously arranged.
 - If catwalk access is required, it is considered working at heights and department staff/faculty must be present to supervise.
 - Production director may serve as qualified supervisor if they have been trained in university best practices.
- Technical/Dress Rehearsals
 - o Presenting department will need to have trained staff present for the entirety of the rehearsal.
 - o Some technical elements may not require all typical safety measures of construction.
 - These will be discussed at **minimum** 60 days before rehearsal.
 - A plan to mitigate risk will be agreed upon & documented at **minimum** 30 days before rehearsal.
 - Those involved with the "high risk" areas will be trained in the risks ahead of time by presenting department staff/faculty/contractor.
 - Risk will be mitigated with proper rehearsal time; communication is critical between those performing the tasks & those designing the desired artistic feel.
 - At no time will the artistic endeavor outweigh the safety of students, staff or faculty.
 - o Stage manager & staff/faculty are responsible for making sure all previously agreed upon & documented safety measures are enforced.
 - Fight calls, shift rehearsals, fly rehearsals ext....

Show period

Considered to be any time a production is taking place with audience in attendance and/or streamed/recorded.

- Each program production will provide the following front of house positions at a minimum:
 - o Box Office Manager/Front of House Manager
 - o Ushers
 - o Concessions (if selling any)
- Each program production will provide all required technical staffing.
 - o Operations Manager will assist in determining staffing if requested.
 - o Events & Classroom Management's (ECM) Events staff will be the primary staffing used.
 - o May require the use of TAR/Over hire staff dependent on production requirements & staffing availability of ECM.

- During the run of show the department may be required to provide a representative on site for the entirety of the production as the on-site contact or for technically advanced features that require advanced supervision/training.
 - o This requirement will be dependent on the technical complexity of a production.
 - o This requirement will be made known at minimum 30 days prior to the performance.
 - o At a minimum of two weeks prior to the performance, the department will provide the names & dates of those who will be providing the advanced supervision.
 - o This person has the requirement of recognizing & evaluating any safety concerns & taking appropriate safety measures to rectify the situation if needed.
 - Example: a show requiring performer flying or complex flying objects would require a staff/faculty member who has been trained in this feature be present for the entirety of the production. This is to complete pre-show/post-show check & oversee the operation during the production.
 - Example: a show requiring a single flying element (chandelier) would require a trained staff/faculty member to perform a pre-show check and a check in with the running crew, but not be present for the entirety of the production.

- Dependent on the production complexities, a building representative may be assigned to the production period to ensure all building & university policies are upheld.

Lighting Information

General:

The backbone of the lighting system is an LED infrastructure using only relays and no traditional dimmers. Data nodes are located at each catwalk and spread through the perimitor of the theatre space at stage level. All nodes are programable to any DMX Universe

(87) 120V/20A relay circuits

(36) 208V/20A relay circuits

Backpack dimmers available, see inventory below

Portable nodes available, see inventory below

Wifi/Wireless Connectivity to board & system available upon request

Console:

ETC Ion XE-20 12K

120v 20A Circuits:

Location	North	South	South East	North East	East	West		
Stage	107/ RP1 (10-12)	103/ RP1 (4-6)	101/RP3 (1-3)	109/ RP1 (13-15)	111/ RP1 (16-18)	105/RP1 (7-9)		
Mezzanine	201/RP1 (19-21)		202/RP1 (22-24)					
Location	North	South	One	Two	Three	Four	Five	Six
Catwalk East	308/RP2 (7-12)	309/RP21 (25-30)	330/RP3 (19-24)	326/RP3 (13-18)	322/RP3 (7-12)	318 /RP3 (1-6)	314/RP2 (13-18)	310/RP2 (1-6)
Catwalk West				328/RP4 (85-87)	324/RP1 (43,45,47)	320/ RP2 (34-36)	316/RP2 (31-33)	312/RP1 (31-33)

208v 20A Circuits:

Location	North	South	South East	North East	East	West
Stage	108/RP4 (1/3,2/4)	104/RP3 (37/39,38/40)	102/RP3 (33/35, 34/36)	110/ RP4 (5/7, 6/8)	112/ RP4 (9/11, 10/12)	106 /RP3 (41/43, 42/44)
Location	One	Two	Three	Four	Five	Six
Catwalk East	331/RP3 (25/27, 26/28)	327/RP2 (45/47, 46/48)	323/RP2 (41/43, 42/44)	319/RP2 (37/39,38/40)	315/RP2 (27/29,28/30)	311/RP2 (19/21, 20/22)
Catwalk West	332/ RP3 (29/31, 30/32)		325/RP1 (34/36, 38/40)	321/RP3 (45/47,46/48)	316/RP2 (31-33)	313/RP2 (23/25, 24/26)

DMX and ENET nodes available at each position

Lighting Inventory

Control

Manufacture	Type	Model	Quantity	Notes
Electronic Theatre Control	ION Xe 20		1	12,000 Output Max
Electronic Theatre Control	Remote Video Interface		1	
	Touch Screen Monitor		4	
Electronic Theatre Control	ETC Pad		1	
Electronic Theatre Control	2 Port Node (Portable)	RSN-DMX2-0-P-4	4	
Electronic Theatre Control	Backpack Dimmer (Portable)	ES750-0A	15	Single Channel Edison Ends Max of 750W

Fixtures

Manufacture	Type	Model	Quantity	Voltage	Watage
Electronic Theatre Control	Series 2 Luster	S4LEDS2LS-0	66	110V	171W
Electronic Theatre Control	Colorsource Par	CSPAR	45	110V	90W
Electronic Theatre Control	Colorsource CYC	CSCYC	16	110V	115W
Lycian	Super Arc 400 Standard Throw	1266	2	110V	900W
Electronic Theatre Control	Lonestar	Lonestar	6	110V	615W

Lenses/Gel/Diffusion

Manufacture	Type	Model	Quantity	Notes
Electronic Theatre Control	19 Degree	419EDLT	20	
Electronic Theatre Control	26 Degree	426EDLT	21	
Electronic Theatre Control	36 Degree	436EDLT	36	
Electronic Theatre Control	50 Degree	450EDLT	12	
Electronic Theatre Control	70 Degree	470LT	8	
Rosco	Optisculpt	10 Degree	45	Verify with design
Rosco	Optisculpt	20 Degree	45	Verify with design
Rosco	Optisculpt	30 Degree	45	Verify with design
Rosco	Optisculpt	40/60 Degree	45	Verify with design
Rosco	Diffusion	Various R114, R119, R132	Verify	Will verify with design for quantity needed vs inventory quantity

Accessories

Manufacture	Type	Model	Quantity	Notes
City Theatrical	5" Top Hat 6 ¼" Frame Size	2840	15	ETC Barrels
City Theatrical	5" Half Hats 6 ¼" Frame Size	2841	15	ETC Barrels
City Theatrical	Donut 6 ¼" Frame Size	2250	15	ETC Barrels 3-3/16" Center Hole
ETC	Pattern Holder (A SIZE)	400PH-A	15	Source Four Fixtures
ETC	Pattern Holder (B SIZE)	400PH-B	15	Source Four Fixtures
ETC	Glass Pattern Holder (B SIZE)	400PH-G	10	Source Four Fixtures
City Theatrical	Drop in Iris	2180	4	Source Four Fixtures
City Theatrical	6" Top Hat 7 ½" Frame Size	2850	30	Colorsource PAR
City Theatrical	24" Safer Sidearm	204	20	Two Tees
City Theatrical	4' Steel Safer Sidearm	210	6	1 ½" Pipe
Altman	50 Lb Boom Base	B-50	8	1 ½" Pipe Standard Thread
Schedule 40	1 ½" X 12' Boom Pipe	NA	7	Standard Thread
Schedule 40	1 ½" X 10' Boom Pipe	NA	1	Standard Thread
Various	Safety Cable	NA	1/Fixture	One per fixture with (10) spares
ETC	10" Boom Base	PSF1032	2	5 LBS Floor Base

Cabeling (Power)

Type	Quantity	Color Code	Notes
PowerCon Jumper 5'	50	Red	
PowerCon Jumper 10'	60	Yellow	
PowerCon Jumper 15'	40	Purple	
PowerCon Jumper 25'	50	Green	
PowerCon Jumper 50'	10	Blue	
Edison male to PowerCon Blue Twofer	10		
Edison Male to PowerCon Blue 6' Cable	60		
Edison male to PowerCon Blue 25' Cable	10	Green	
Edison male to PowerCon Blue 50' Cable	8	Blue	
Soca 19 pin to PowerCon Blue 6' Break OUT	12		
Soca 19 pin 12G-14 connector 50' Multi-Cable	12		
Soca 19 pin 12G-14 connector 75' Multi-Cable	2		
Edison 12G Jumper 25'	10		
Edison 12G Jumer 50'	10		
Edison Power Strip	10		
L5-20 Twist Lock Jumper 25'	12		3 Pin Key In Twist Lock
4/0 Camlock 400 Amp Feeder Cable 25' Set	1 Set		Green (Ground), (2) White (Neutral), Black (Hot/Load), Red (Hot/Load), Blue(Hot/Load)

Cabeling (Data)

Type	Quantity	Color Code	Notes
DMX Jumper 5 Pin 5'	60	Red	
DMX Jumper 5 Pin 10'	60	Yellow	
DMX Jumper 5 Pin 15'	40	Purple	
DMX Jumper 5 Pin 25'	40	Green	
DMX Jumper 5 Pin 50'	5	Blue	
DMX Jumper 5 Pin 75'	12	Orange	
DMX Jumper 5 Pin 100'	2	White	
DMX 5 Pin Male to Male Turnaround	8		
DMX 5 Pin Female to Female Turnaround	8		
DMX 5 Pin Terminator	8		
Neutrick CAT6A EtherCon Jumper 10'	10	Yellow	
Neutrick CAT6A EtherCon Jumper 25'	5	Green	
Neutrick CAT6A EtherCon Jumper 75'	2	Orange	
RJ45 Shielded Ethernet Jumper 10'	10		
RJ45 Shielded Ethernet Jumper 25'	6		
RJ45 Shielded Ethernet Jumper 75'	6		
RJ45 Shielded Ethernet Jumper 100'	2		

Miscellaneous

Manufacture	Type	Model	Quantity	Notes
Electronic Theatre Control	Cue System 12 Channel	CSN12WCD	1	Desktop
Electronic Theatre Control	Cue Light Pendant	CSNOSS	12	
Lex	Pin & Sleeve 100 Amp Distro Box		1	(10) 20 Amp L6-20 Connections 220Volt
Osram	HTI 400W/24		2	Spare Follow Spot Lamp
Whirlwind	PowerCon Stringer 1 IN – 5 OUt		2	
Whirlwind	Duplex Edison W/passthrough	PL1-420-BK	8	
Lex	5 Slot Cable Ramp	PRC-5	6	
Ultratec	Radiance Hazer	CLF-2460	2	Luminous 7 Water Base Fluid

Sound Information

Overview:

The Sloan performing arts center sound system is centered around a Biamp Tesira Server I/O Digital Signal Processor with AVB and Dante digital audio. This serves as the processor for the theater loudspeakers and functions as a router and mixer for everyday use of the system, as well as providing paging and background music to common areas and backstage. A Crestron control system serves as the interface for day to day use.

The backbone of the system is a Dante digital audio network comprised of two Cisco Catalyst 9300 Ethernet switches in a redundant configuration. All audio inputs and outputs are via the network. Input/output devices consist of one Yamaha RIO-32x16 permanently mounted in the A/V rack room, and one RIO-16x8 in a portable case. A Yamaha QL5 mixing board provides mixing capabilities. All audio is routed through the Biamp DSP and distributed to the amplifiers via the Dante network.

The house loudspeakers system consists of two Left-Right pairs of Fulcrum Acoustic DX1526, one pair covering the “Stage” and the other pair covering the seating area.

The theater is equipped with numerous I/O plates with microphone inputs, audio tie lines, Dante network ports, Intercom connections and “Dry” data connections. Included with this document is a map of plate locations with the connections available at each location. All of these connections terminate in the rack room. Patch bays for audio and data are mounted in the A/V rack. Microphone channels 1-24 are “fully normalled” through the audio patchbay into the Yamaha RIO-32x26.

Six channels of Shure ULX-D wireless microphones are provided. Four channels are dedicated to the theater while the remaining two are dedicated to the lobby. All channels are available on the Dante network. Handheld and body pack microphones are available for all channels. There are eight rechargeable battery packs and charging bases for the system.

Three channels of stage intercom are available in locations throughout the building including the dressing rooms, green room, conditioning lab, and costume shop. Single and dual channel belt packs are provided. Single channel wall stations (connected to channel “A”) are mounted in the facility managers office and the box office managers office.

The theater has an infra-red hearing assistance system with rechargeable receivers.

There is a hanging microphone mounted in the theater that captures theater audio for distribution to the background music system.

A Yamaha TF rack is mounted in the AV rack for recording and playback. In addition to being connected to the Dante network, 12 analog inputs and 8 analog outputs are available at the patchbay.

Wifi/Wireless connectivity to mixer & sound system available upon request.

Sound Inventory

Control

Manufacture	Type	Model	Quantity	Notes
Biamp	Digital Signal Processor	Tesira Server I/O	1	Rack Mounted in AV Room
Yamaha	Digital Mixer	QL5	1	
Yamaha	I/O Stage Box	RIO-32X16	1	Rack Mounted in AV Room
Yamaha	I/O Stage Box	Rio-16x8	1	Portable in Gator Case

Microphones/Receivers

Manufacture	Type	Model	Quantity	Notes
Shure	Receiver	ULXD4Q-G50	1	Single rack space quad channel receiver for THEATRE wireless (470-534MHz)
Shure	Receiver	ULXD4D-G50	1	Single rack space dual channel receiver for LOBBY wireless (470-534MHz)
Shure	Receiver	ULXD4D-G50	2	Single rack space quad channel receiver in PORTABLE rack (470-534MHz)
Shure	Transmitter	ULXD2/SM58-G50	12	Handheld- THEATRE
Shure	Transmitter	ULXD1-G50	12	Bodypack- THEATRE
Shure	Transmitter	ULXD2/SM58-G50	2	Handheld- LOBBY
Shure	Transmitter	ULXD1-G50	2	Bodypack- LOBBY
Shure	Element	MX150B/C-TQG	6	Cardioid 5mm Subminiature LAV Microphone TQG TA4F Connector (Shure Style)
Shure	Element	TH53C/O-MTQG	12	Twinplex Headset Microphone, Omnidirectional Condenser
Production Intercom	Desktop Microphone	DMB2-D43-PTT	1	2 switch paging microphone Back Stage & House/Back Stage
Production Intercom	Decktop Microphone	DMB1-D43-PTT	1	1 switch paging microphone in lobby
Audio-Technica	Cardioid Capacitor	AT 4040	5	Large Diaphragm Condenser
Audio-Technica		AT 4041	4	Small Diaphragm Condenser

Speakers/Amplifiers

Manufacture	Type	Model	Quantity	Notes
Fulcrum Acoustic	Loudspeaker	DX1526	2	Main speakers installed in pairs Located Under Cat 3 L&R *Can Not Be Moved*
Ashly	Amplifier	NXE 1504	4	4 Channel Network Amp 2 Ohm 150W Rack Mounted in AV Room *All channels used for house system*
Yamaha	Loudspeaker	DXR12 MKII	8	With yoke mount for hanging to 1.5” pipe in either orientation
RCF	Subwoofer	SUB 702-AS II	2	1,400 W 12-Inch

Intercom System

Manufacture	Type	Model	Quantity	Notes
Production Intercom	Power Supply	PS301	1	Rack Mounted in AV Room
Production Intercom	3 Channel Master Station	MS301	1	Portable in Gator Case
Production Intercom	Belt Pack 1-Channel	BP-1	8	
Production Intercom	Belt Pack 2-Channel	BP-2	4	
Production Intercom	Headset	DMH920	15	Double-Ear Intercom Headset
Production Intercom	Phone Handset	HH10A	3	Handset at box office station
Clear Com	Headset	CC-110	10	Single-Ear Intercom Headset
Clear Com	Desk Station	KB-702GM	3	(2) Channel Speaker Station
Clear Com	2 Channel Wireless Master Station	HME DX210	1	Portable in Gator Case
Clear Com	Wireless Beltpack	BP4 10	6	2 Channel
Clear Com	Wireless Headset	CC-15-MD4 D	7	

Assisted Listening System

Manufacture	Type	Model	Quantity	Notes
Listen Technologies	IR Transmitter	LT-82-01	1	Rack mounted in AV room
Listen Technologies	IR Receiver	LR-4200-IR	8	Receiver package with Neck loop & universal ear speaker
Listen Technologies	Rechargeable battery	LA-365	8	Replacement rechargeable battery for ASL receiver
Listen Technologies	Battery charger station	LA-381-01	1	(12) Unit drop in charging tray

Cable/Snakes/Adapters

Type	Quantity	Color Code	Notes
Whirlwind 3 Pin XLR Cable 25'	15		
Whirlwind 3 Pin XLR Cable 50'	10		
Whirlwind 3 Pin XLR Cable 100'	2		
Whirlwind NL4 Speakon Cable 25'	0		
Whirlwind NL4 Speakon Cable 50'	0		
Whirlwind Custom Snake 25'	1		Analog 16x4 XLR W/4 Ethernet Fan-Fan
Whirlwind Snake 10'	1		Analog 8x8 XLR Fan-Fan
Whirlwind 4 Pin Headset Cable 25'	4		
XLR Y Cable (1)M to (2)F	4		
1/8" – Dual 1/4"	2		
1/8" – TA4F	3		For Shure Bodypacks
Red MINI Patch Cable 2'	40		For use in AV patch bay
Ethernet Patch Cable 2'	30		For use in AV patch bay

Miscellaneous

Manufacture	Type	Model	Quantity	Notes
Focusrite	Audio Interface	Scarlette 18I20	1	Portable
Denon	CD/BT/Media Player	DN-300Z	1	Portable
Shure	Lithium-Ion Rechargeable Battery	SB-900B	8	
Shure	Battery Charger	SBC200	4	Docking Charger
Sony	Headphones	MDR7506	1	Monitor Headphones
Radial	Passive DI Box	PRO-D1	2	
Konig & Meyer	Tall Boom Stand	K&M 210/9	8	
Konig & Meyer	Short Boom Stand	K&M 25977	4	
Clear Com	Battery Charger		1	Holds 4 Batteries
Clear Com	Lithium-Ion Rechargeable Battery	BAT50	10	770mAh

Computer/Networking Information

Manufacture	Type	Model	Quantity	Notes
Apple	I-MAC	2020 27-Inch Retina 5K	2	3.8 GHz 8-Core Intel Core i7 AMD Radeon Pro 5500XT 8 GB 16 GB 2667 MHz DDR4
Qlab	Program	Qlab Version 5	2	Full Licence (Audio, Video, Lighting, Networking)
Audinate	Program	Dante Virtual Soundcard	2	
Lightwright	Program	Lightwright V6	2	
Vectorworks	Program	2024	2	Student/Educational Licence

Projection Information

- Projection requirements must be discussed at minimum 30 days prior to load in of production.
- Projector is hung as needed dependent on production design.
- Typically installed on (1) 10' Truss with (2) ¼ Ton Chain Hoists at front of house or mid stage.
- Video Output is run VIA a pair of Point to Point HDMI transmitter/receivers through the building patch network.
- Control is run through Qlab VIA Artnet.
- Scaling to custom sizes & aspect ratios done VIA Qlab.
- All cameras & Power Points run through Qlab VIA NDI.

Projection Inventory

Manufacture	Type	Model	Quantity	Notes
Panasonic	Projector	PT-RZ24K	1	21,000 Lumen (Center) 3 Chip DLP 1920X1200 Resolution
Panasonic	Lens	ET-D75LE95	1	Ultra Short Throw, Ratio .36:1
Panasonic	Lens	ET-D75LE30	1	2.4-5.2 Zoom Lens, Ratio 1.9:1
Panasonic	Fly Cage	ET-PFD525	1	
Da Lite	Screen Kit	92149	1	16x9 Fast Fold Screen & Legs *No Dress Kit*
Crestron	DM Lite Transmitter	HD-TX-4KZ-101	2	
Crestron	DM Lite Receiver	HD-RX-4KZ-101	2	*1* is installed perminetaly at FOH projection point.

Drapery/Track Inventory

Drape

Drape	Quantity	Height	Width	Fullness	Color	Notes
Main	1 pair	17'-10"	25'-0" ea	100%	Black	
Legs	4 pair	18'-0"	5'-6"	Flat	Black	
Border	4	4'	50'-0"	Flat	Black	
Border						
Traveler	1 pair	17'-10"	25'-0"ea	100%	Black	
Side Tabs	18	18'-0"	9'-0"	Flat	Black	
Side Tabs						
Scrim	1	18'-0"	48'-0"	Flat	Black	Typically tied to 40' width W/fold back.
Cyc	1	18'-0"	44'-0"	Flat	White	Typically tied to 40' width W/fold back.
Screen	1	18'-0"	44'-0"	Flat	Light Blue	Gerriets Opera 200 Light Blue Front & RP Screen

Track/Track Accessories

Manufacture	Type	Model	Quantity	Notes
ADC	U-Channel Track 14'	2800BL	2	
ADC	U-Channel Track 12'	2800BL	2	
ADC	Master Carriers	2852BL	2	
ADC	Carriers	2851BL	52	
ADC	End Stop	2809BL	2	
ADC	Lap Clamp	2807BL	1	
ADC	Splice Clamp	2824BL	2	
ADC	Hanging Clamp	2828BL	10	
ADC	Pipe Clamp	2815BL	10	
ADC	Live End Pully	2863BL	1	
ADC	Dead End Pully	2864BL	1	
ADC	Floor Block	2866	1	
ADC	Rubber Washer	2826	52	
ADC	Rubber Washer	2827	52	
ADC	Back Packs	2833BL	52	
	Center Pipe Support	CPS-1	1	

Miscellaneous

Item	Quantity	Size	Width	Fullness	Color	Notes
Bottom Pipe	14	1"	6'	NA	Black	Couplers & End Caps available

Rigging Information

Location	Type	Load Rating	Total Load Rating	Notes
Pinrail	Pounds Per Linear Foot	250lbs	Varries by position	
Pinrail	Concentrated Point	500lbs	Varries by position	Repeatable per 2 linear feet
Catwalk Railing	Pounds Per Linear Foot	30lbs	Varries by position	
Catwalk Railing	Concentraited point	90lbs	Varries by position	Repeatable per 3 linear feet
Balcony Railing	Pounts Per Linear Foot	50lbs	Varries by position	
Balcony Railing	Concentrated Point	150lbs	Varries by position	Repeatable per 3 linear feet
High Steel	Concentrated Point	2000Lbs	8000Lbs	Max 4 simultaneous loads per beam, No closer than 4'-0" On Center 12,000 Lbs total over all beams Runs East/West, 4' & 12' from center
Unistrut Cat 5&6	Concentrated Point	530Lbs	530Lbs	1 point per Unistrut
Unistrut Cat 6&Wall	Concentrated Point	1100Lbs	1100Lbs	1 point per Unistrut

Installation of Rigging:

All temporary production rigging will be installed by, or under the direct supervision of, qualified professional staff.

Performer Flying & Aerial Acts:

Discuss requirements in advance.

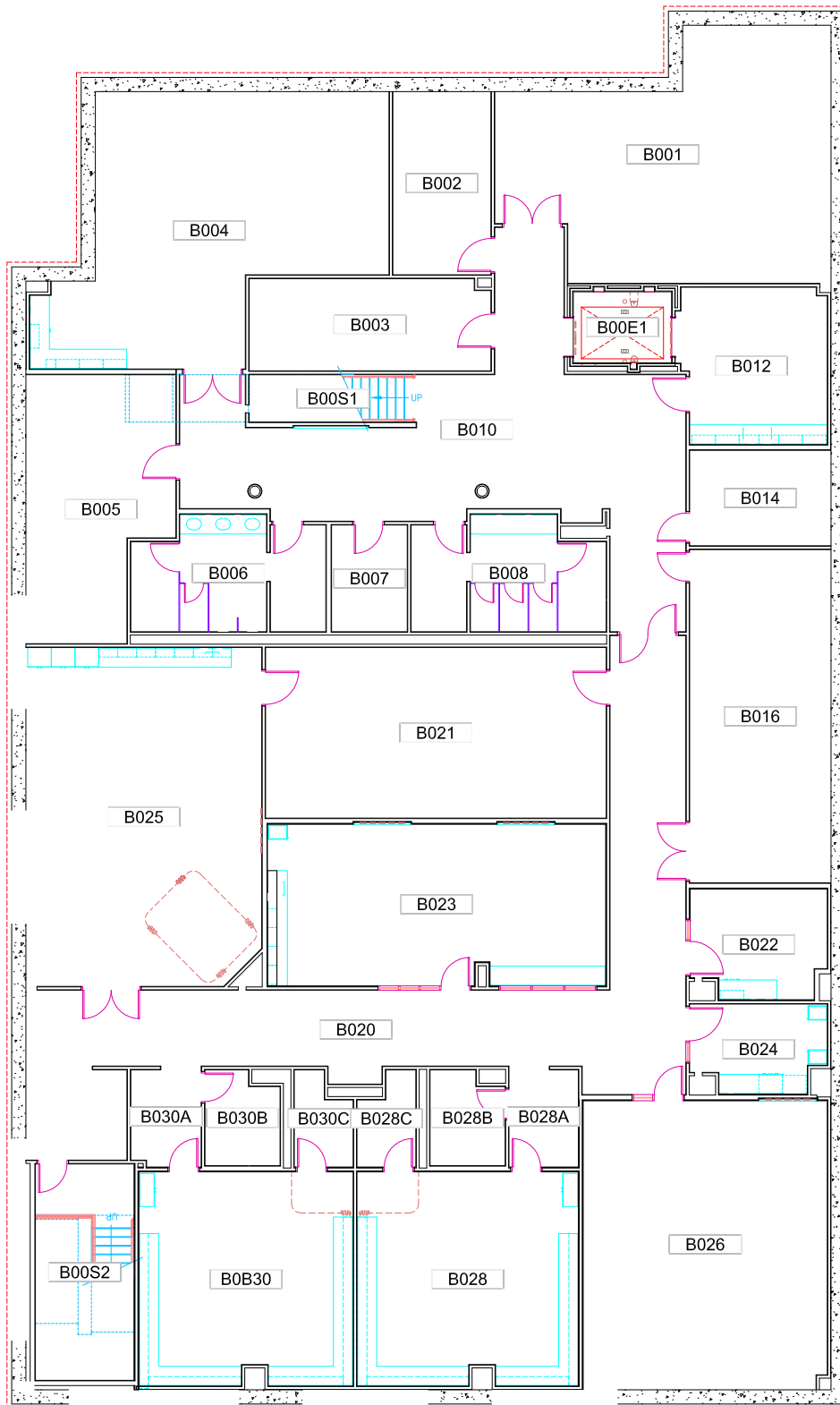
Use of any performer flying or aerialist act(s) for productions will require at minimum 6 months advance notice.

All supporting equipment must be specified, designed and installed by a professional company, specializing in performer flying.

Use of the installed equipment is limited to those who have been trained directly from the specialist.

Rigging Inventory

Manufacture	Type	Model	Quantity	Notes
CM	Loadestar Classic	½ Ton	12	C7 7 Pin Cable Connector, 3 Phase Power
CM	Loadestar Classic	¼ TON	4	Hubbel Twist Lock Connector, 120V Power
Motion Labs	Motor Controller	8 Way	1	L21-30 3 Phase Power
Motion Labs	Pendent	8 Way	1	
Motion Labs	Pendent Cable	50'	1	
Hubbell	Control Station (Pickle)	6	4	
Mountin Rigging	Motor Cable 16/7	75'	12	C7 7 Pin Cable Connector
Mountin Rigging	Motor Controller Power Cable	75'	1	L21-30 Cable Connector
XSF	5 Chord 12x12 Truss	10'	6	Black Powder Coated
XSF	5 Chord 12x12 Truss	8'	8	Black Powder Coated
Liftall	Steelflex	6'	24	Gakflex Round Sling
	Alloy Deck Chain	3'	2	½" Deck Chain
	3/8" Wire Rope Sling	5'	12	Eye to Eye Tagged Wire Rope Sling
	3/8" Wire Ripe Sling	10'	2	Eye to Eye Tagged Wire Rope Sling
Chicago	5/8" Screw Pin Shackle		24	Black
	Beam Clamp	1 Ton	12	1 Ton I-Beam Clamp
Chicago	Shackle	5/8	24	
The Light Source	Half Coupler W/Forged Eye	MLBSE	26	Vertical WLL 1100LBS Mix of Silver & Black



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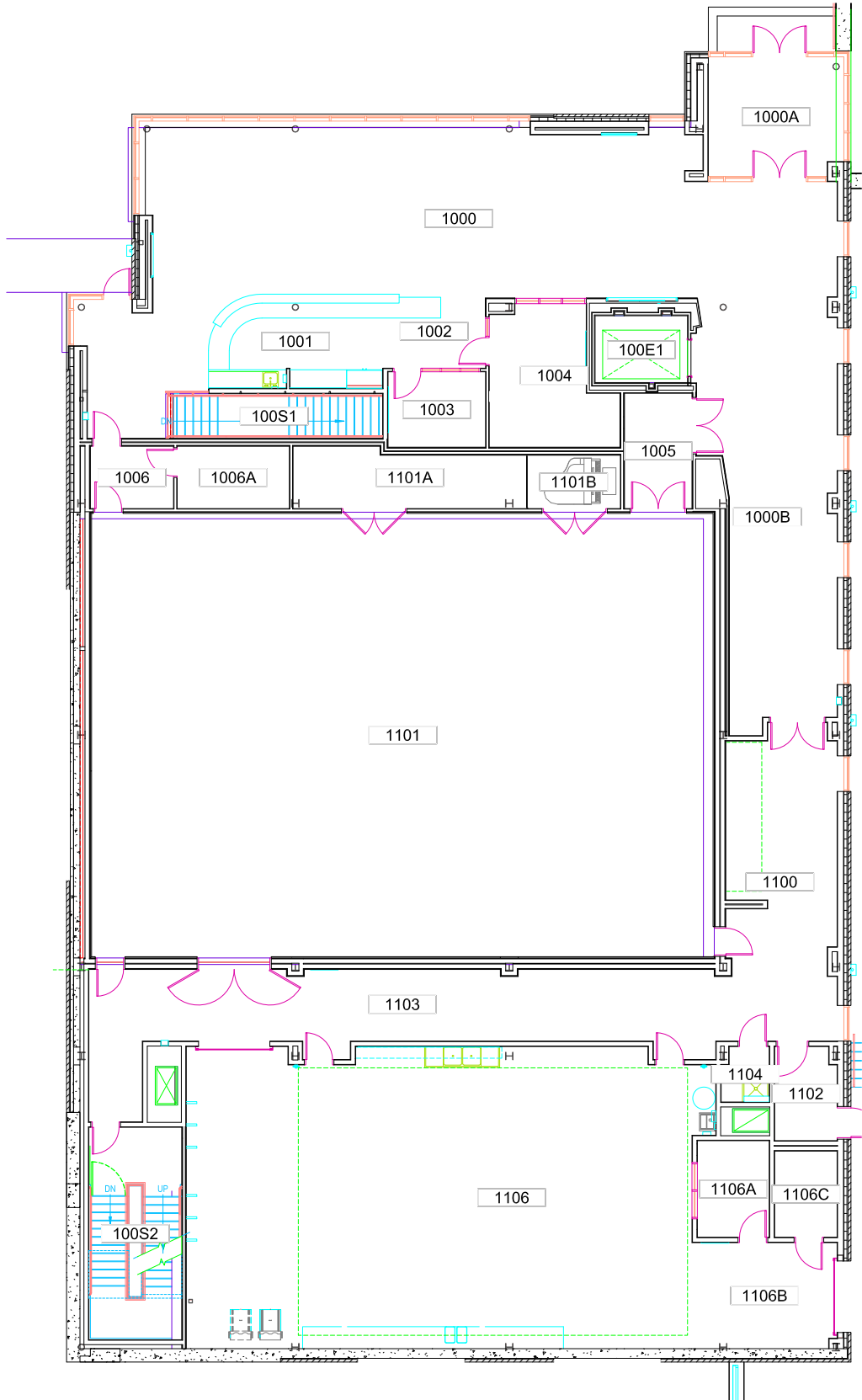
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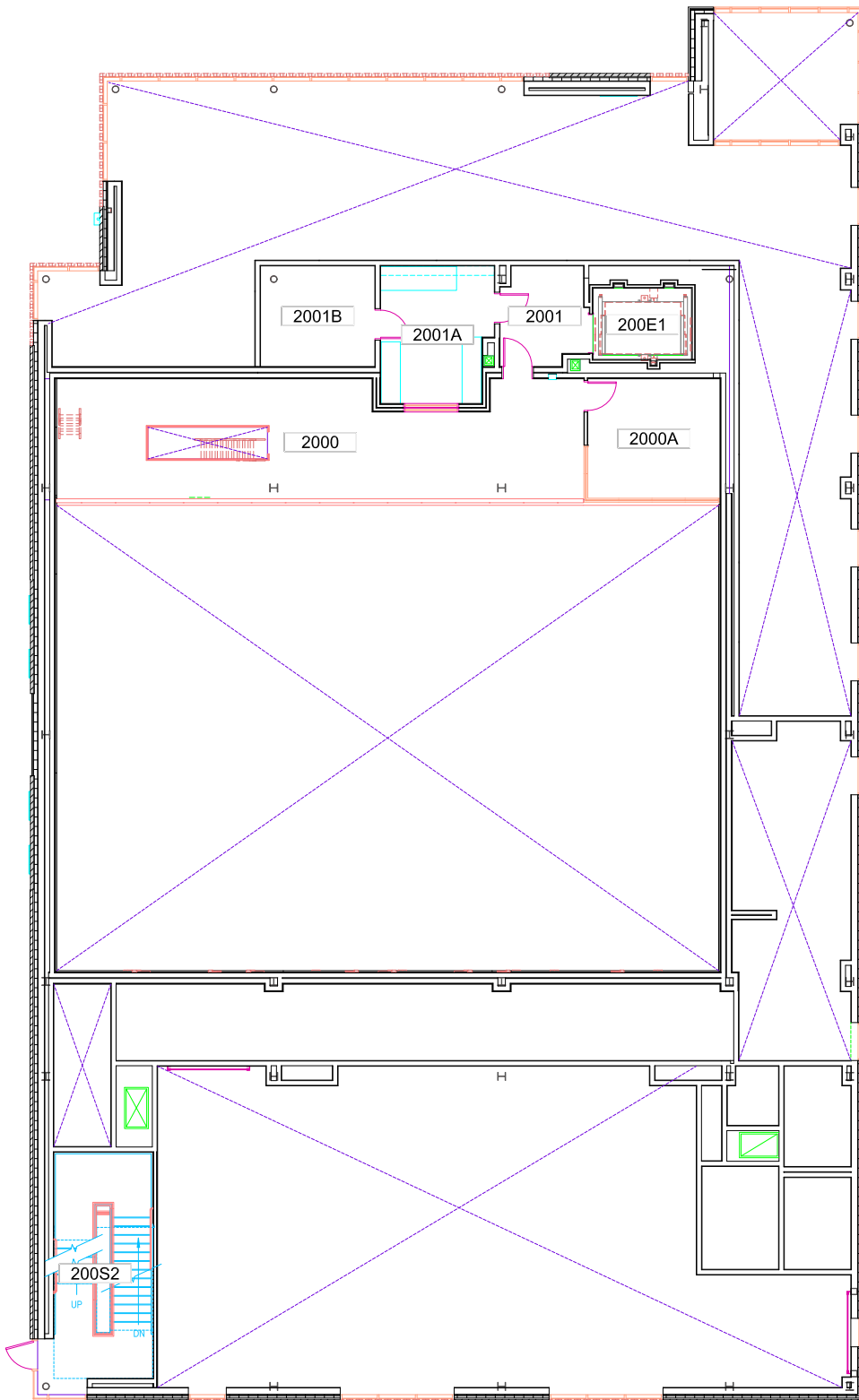
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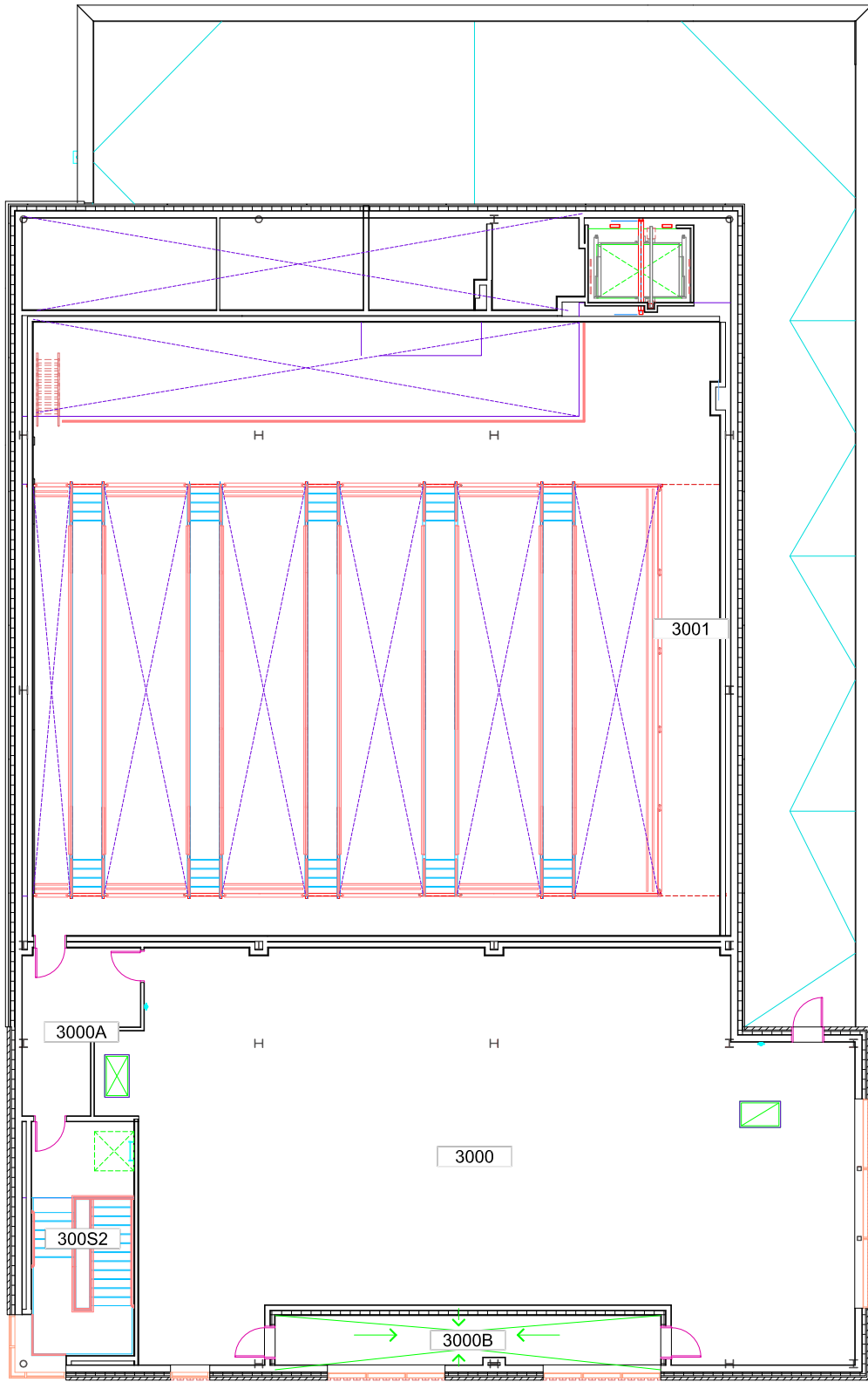
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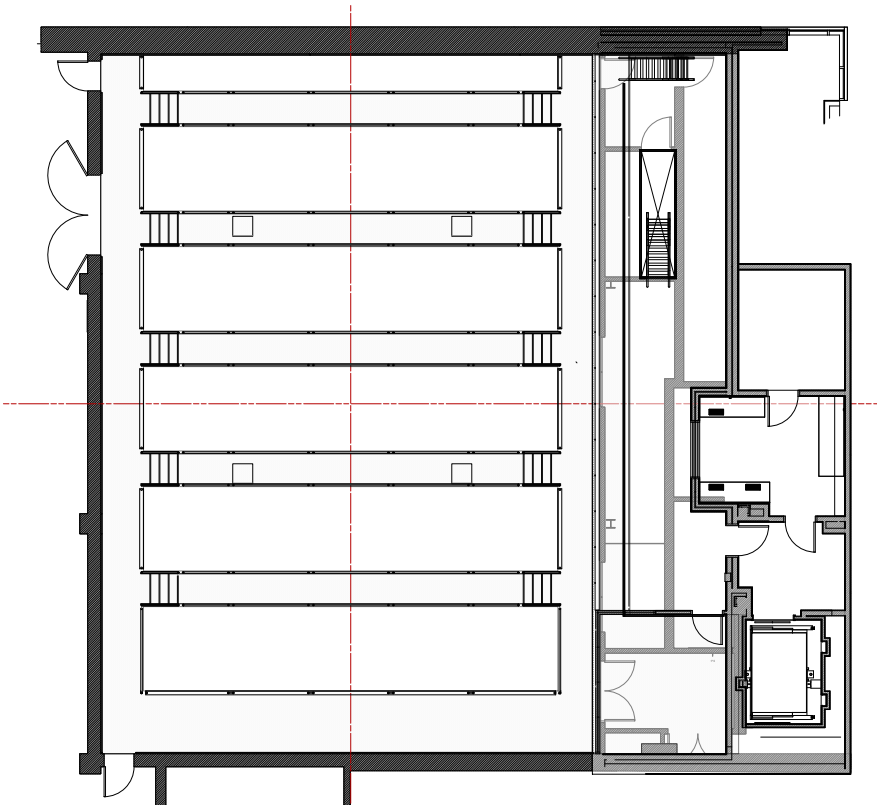
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Overhead Plan View



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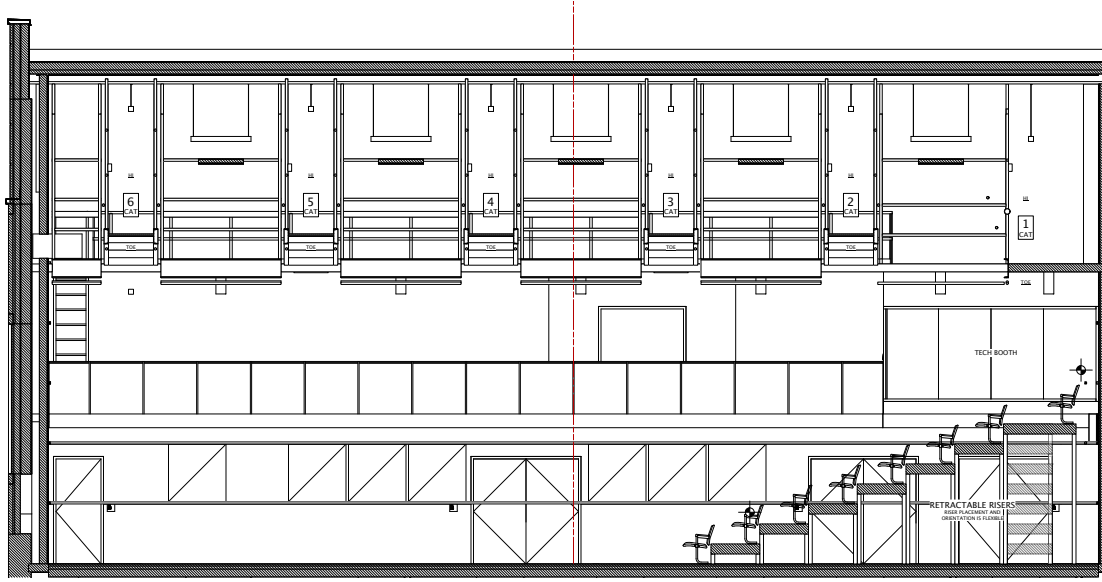
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Section View North



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Section View South

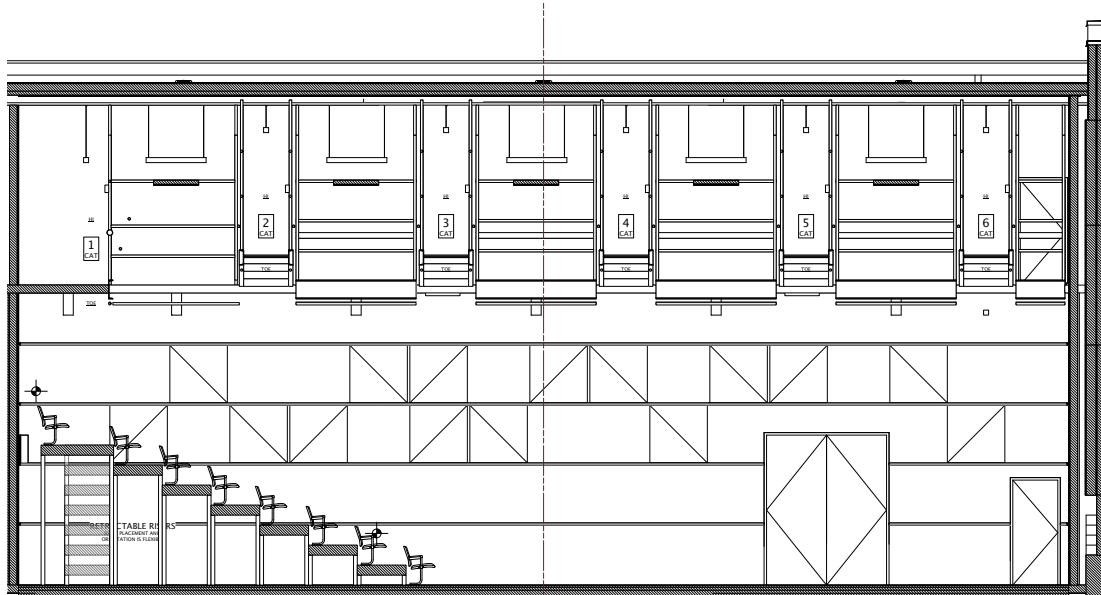


TABLE 04
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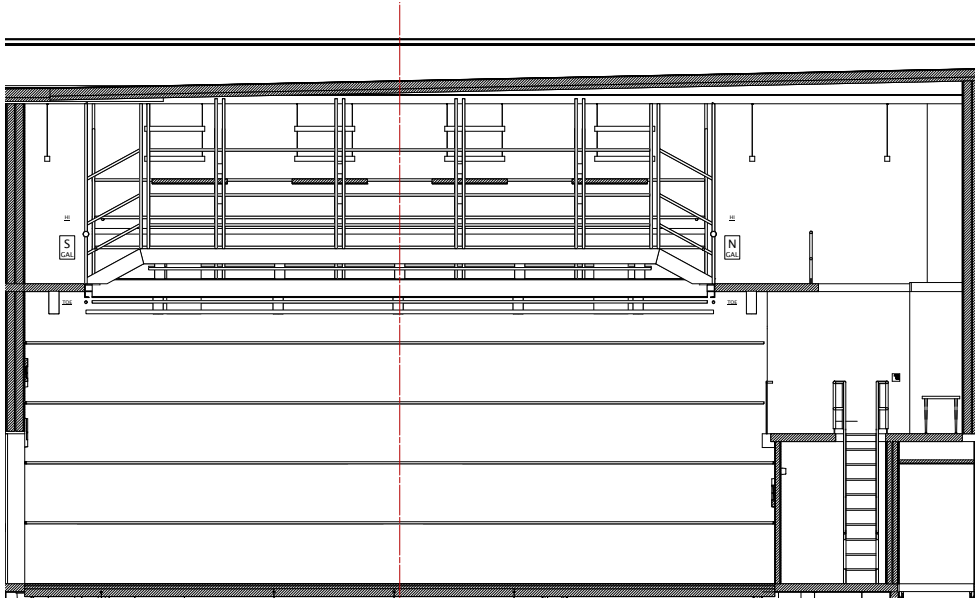
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Section View West



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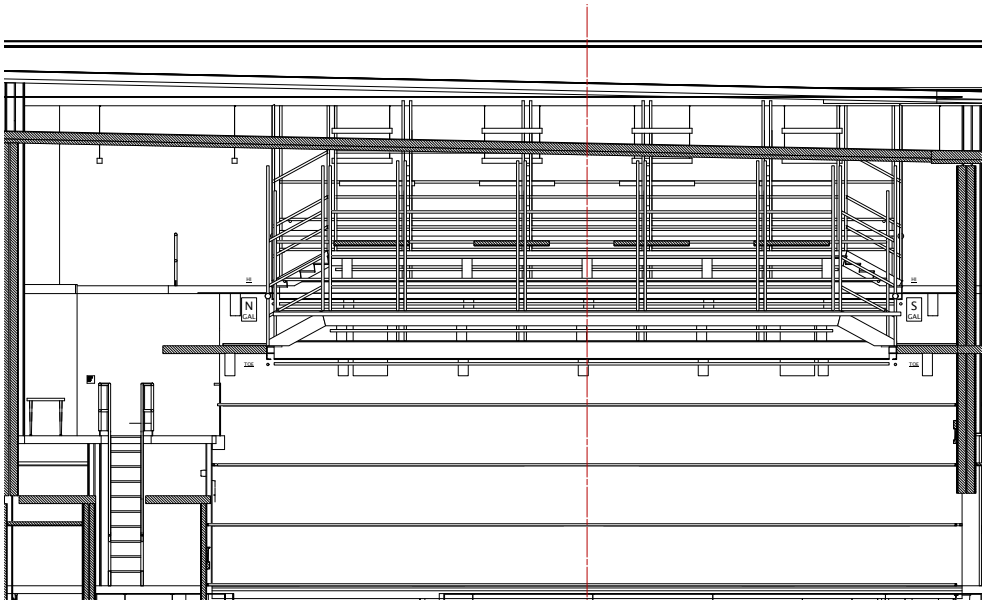
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Section View East



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