

WSDG
WALTERS-STORYK DESIGN GROUP



ARCHITECTURAL
ACOUSTIC
CONSULTING

MEDIA
SYSTEMS
ENGINEERING

Recording Studios 2017



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Company Background and Structure

Company Background

WSDG - Walters-Storyk Design Group is a global architecture, acoustic, electro- acoustics and advanced audio-visual systems integration consulting and design firm. Pioneering architect/acoustician, John Storyk (AIA), founded the company in 1969 with the creation of Jimi Hendrix's Electric Lady Studios in NY.

With USA headquarters in Highland, New York, and offices in Basel, Switzerland; Buenos Aires, Argentina; Belo Horizonte, Brazil; and Miami, Florida. WSDG is the partnership of interior design partner Beth Walters and John Storyk. The firm's global team includes over fifty associates and design professionals.

WSDG's 46+ years of innovative design achievement has produced over 3500 diverse global projects. These assignments include: NY's Jazz At Lincoln Center (2006) and studios for: Alicia Keys, Jay-Z, Bob Marley, Bruce Springsteen, Celine Dion, Def-Jam Records, ESPN, MTV (Latin America), WNET, KKL (Switzerland) and Boston Symphony Orchestra.

WSDG is an eleven-time winner of the international NAMM TEC Award for studio design creativity. Recent WSDG TEC winners include: Jungle City Studios, NY (2011), the Berklee College of Music – 160 Mass. Ave. recording/teaching complex, Boston (2014), The Church Studios, London (2016), and Boston Symphony Orchestra Control Room, Boston, MA (2017). The firm's work has been published extensively, and discussed in numerous professional audio, broadcast and systems design media.

Company Structure

WSDG maintains offices around the world:

USA:

New York, New York
Miami, Florida
San Francisco & Los Angeles, California

Europe:

Basel, Switzerland
Barcelona, Spain
Florence, Italy

Latin America:

Buenos Aires, Argentina
Belo Horizonte, Brazil
Mexico DF, Mexico
Punta del Este, Uruguay

Asia:

Guangzhou City, China
Mumbai, India
St. Petersburg, Russia
Doha, Qatar

All WSDG offices share resources on a daily basis, however all jobs are managed and represented on a local basis. All work will be coordinated via the New York office. All offices maintain a full-time staff of acousticians, architects, engineers, designers and systems integrators.

Services | Architectural Acoustic Consulting

Acoustic Design and Consulting

WSDG has collaborated with many of the world's leading architectural firms to provide innovative solutions and procedures towards creating excellence in acoustic and electro-acoustic design and installation. We pride ourselves in participating in the collaborative design process.

Acoustic Testing and Measurement

WSDG engineers use the most advanced acoustic and electro acoustic prediction and analysis software. This provides accurate acoustical data collection and predictive acoustical modeling. Our reports are accurate and along with pre-construction environment auralization, allow our clients and design partners to listen to environments before they are constructed.

Internal Room Acoustics and Surface Treatments

Critical listening spaces, including studios, theaters, conference rooms, home listening rooms and all speech intelligibility sensitive spaces will all benefit from accurate acoustic design. Often the use of variable acoustic treatments is our preferred design approach. By providing design options for surface treatments using absorption, reflection and diffusion, we can accurately enhance the listening properties of these environments.

HVAC Noise Control Design / Vibration Control

WSDG establishes noise criteria specifications for all spaces in our designs, while preparing creative design solutions for adherence to these goals. Careful attention is given to HVAC design, building structural systems, and room boundary design. When required, real world listening simulations allow careful value engineering before final design documentation.

Sound Isolation

Critical to virtually all successful acoustic designs is the thorough analysis of external noise, vibration sources (traffic, trains, aircraft, etc.) and environment (i.e. HVAC distribution systems). WSDG provides acoustical measurement, analysis and design services to assure optimal acoustical isolation of existing or new construction, always with an eye towards economy of design and awareness of applicable building techniques for each project.

Recording Studio Design

WSDG creates world class professional critical listening environments which provide a platform for an array of mixing consoles, audio monitors and professional equipment – both digital and vintage analogue – to be used to optimum effect. Successful projects start with a well-developed plan. WSDG designers help their clients in the initial evaluation and development program / requirements summary, site selection, design and construction documentation.

Media Facility Planning and Consulting

Ergonomic design and concise 'simple enough' operation of a facility are most critical. Our team of architects and engineers will evaluate a building site, help develop the project program and educate clients about the process of designing and building a media facility. We provide cost analysis for budgeting as well as preliminary design and renderings for presentations. WSDG designers, architects and engineers can provide a proven expertise in all the every phase of design and construction.

Services | Media Systems Engineering

Electro-acoustical Systems Design

The most visible part of the Electro-acoustical System is the loudspeaker system. Loudspeakers are complex electromechanical devices so varied, extensive and rapidly shifting that is hard to oversee even for professionals. WSDG recommendations are based on technical, aesthetical and budgetary criteria tailored to the project at hand. Selecting the electroacoustic system most suitable for the room, enables WSDG to achieve and exceed target parameters such as loudness level, frequency range, coverage, directivity control and speech intelligibility.

Systems Design and Integration

In today's world of increasingly complex technical media installations, multi-functional devices and computer controlled sound and video systems the integration of all equipment pieces into a working system is a complex engineering task. WSDG provides services that start with the design and end with the complete implementation of solutions for commercial, corporate and residential areas that seamlessly integrate, in such a way that the system is operable by personnel with differing needs and technical skill.

IT and Communication Systems

WSDG offers global IT & Communication design services including: Research of existing current conditions, consultation with clients and systems analysis of required specifications. With that information, we produce designs that utilize suitable software and hardware solutions, liaising with other IT staff such as software engineers and programmers. WSDG assists in producing, installing and implementing the new system, testing and modifying it to ensure that that it operates reliably.

Home Theater and Residential Systems Design

At WSDG the theater experience starts with the design that architecturally incorporates all the interior design, acoustical requirements and carefully selected audio, video and control equipment. A detailed plan of the home theater will provide room and structural acoustic design, interior design, architectural renderings, custom electronics specifications and integration design.

Theatrical Technology

WSDG provides theatrical technology and lighting design services for professional theater designers, educational workshops and special events. We work closely with diverse and complex production and design teams to make every project a success. We blend science with art to create beautiful environments and captivate audiences. We will work with you through the programming and tech periods, up to finalization and final set-up of the systems.

Control Systems

Our Control and Automation system design services provide the full scope of engineering services and solutions to meet all specific needs. From defining the project concept and initial specifications, to front end engineering & design, our team can help you identify the right technology. Once complete, the team moves into the build, test and delivery stage to prepare for installation, commissioning and ongoing project support.

Relevant Experience

Walters-Storyk Design Group and its principals have an extensive body of clients in the fields of architectural design, acoustical consulting, noise isolation design, facility design and audio-visual systems design and integration. A list of projects that supports our company profile and credentials follows. For a more extensive client list, please see www.wsdg.com. Our experience spans over 47 years in architectural design, internal room acoustics, advanced noise isolation, and systems design required for acoustically sensitive projects of all sizes. Moreover, WSDG has the ability to work seamlessly within a team design environment.

We have assembled a list of projects that underscore our experience with multiple project types:

VSL Synchron Stage
Vienna, Austria

Dream Asylum
Miami, USA

Diante Do Trono
Belo Horizonte, Brazil

Electric Lady Studios
New York, USA

Goo Goo Dolls – GCR Audio
Buffalo, USA

Berklee College of Music – 160 Mass Ave
Boston, USA

Flughafenkoppf – Zurich Airport
Zurich, Switzerland

55TEC Studio
Beijing, China

Aura Club Events Hall
Zurich, Switzerland

audioEngine
New York, USA

Morro de Chapéu
Belo Horizonte, Brazil

Katara Studios
Doha, Qatar

The Church Studios
London, United Kingdom

Jungle City Studios
New York, USA

Estudio 13
Mexico City, Mexico

Jazz at Lincoln Center
New York, USA

KKL Concert Hall
Luzern, Switzerland

ESPN - Digital Center 2
Bristol, Connecticut

PepsiCo Content Studio
New York, USA

Rio 2016 – Barra Olympic Park
Rio de Janeiro, Brazil

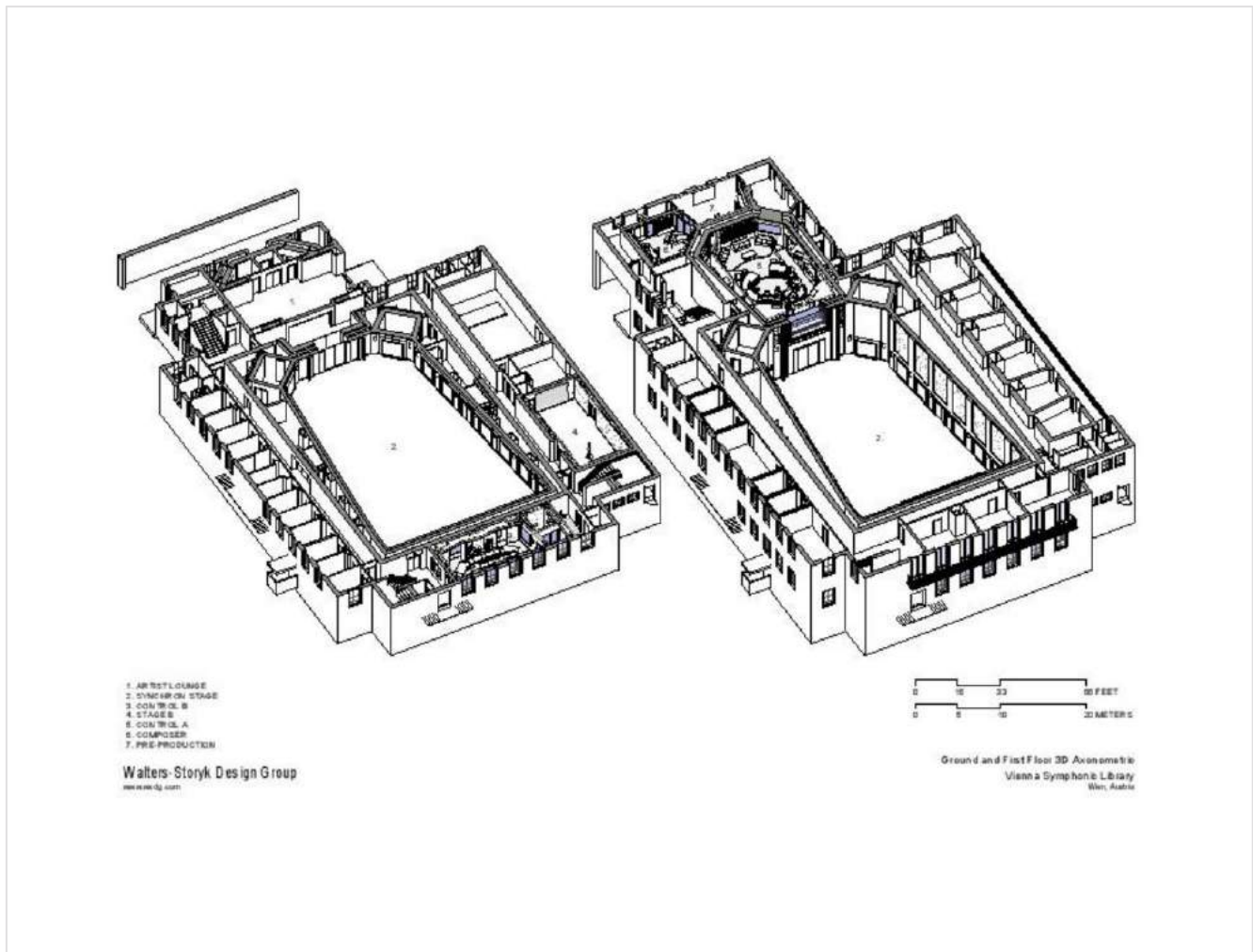
The Metroplex at KITEC
Hong Kong, China

Village Studios
Guangzhou, China

VSL Synchron Stage - Vienna, Austria

A leading developer of orchestral sample libraries and music production software, the VSL Synchron Stage enlisted WSDG, to upgrade its historical (circa 1940) scoring stage into a cutting-edge recording facility. The reconfigured complex now provides enhanced acoustics and cutting edge technology for recording film music and, the full spectrum of orchestral and choral works. The 2,000 sq. m. / 21,000 sq. ft.), VSL complex represents the worlds only scoring stage capable of merging proprietary software innovations with traditional technologies and procedures

Initiated in 2012, the scope of the two-year+ assignment required WSDG's wide-ranging facility planning services. Beginning with documentation of the overall state of the property, we also covered room and structural acoustical measurements and schematic conceptual planning. The Design Development Planning stage included interior design by U.S.-based company co-founder, Beth Walters. Construction Documentation was completed in collaboration with local architect, Schneider-Schumacher. The scope of work comprised: The VSL Synchron Stage A Control Room and large Recording Hall; VSL Synchron Stage B CR and Live Room; and the Studio C Edit Room, and Preproduction Suite. WSDG also performed the electro acoustical system calibration for the audio monitoring system. The VSL Synchron State is distinguished by uniquely future-proof technology, making it a superb recording facility for film music and other orchestral and choral works. A large scale Dante Network with input and output interface connection points at all relevant locations, serves as the facility's network backbone.



VSL Synchron Stage - Vienna, Austria

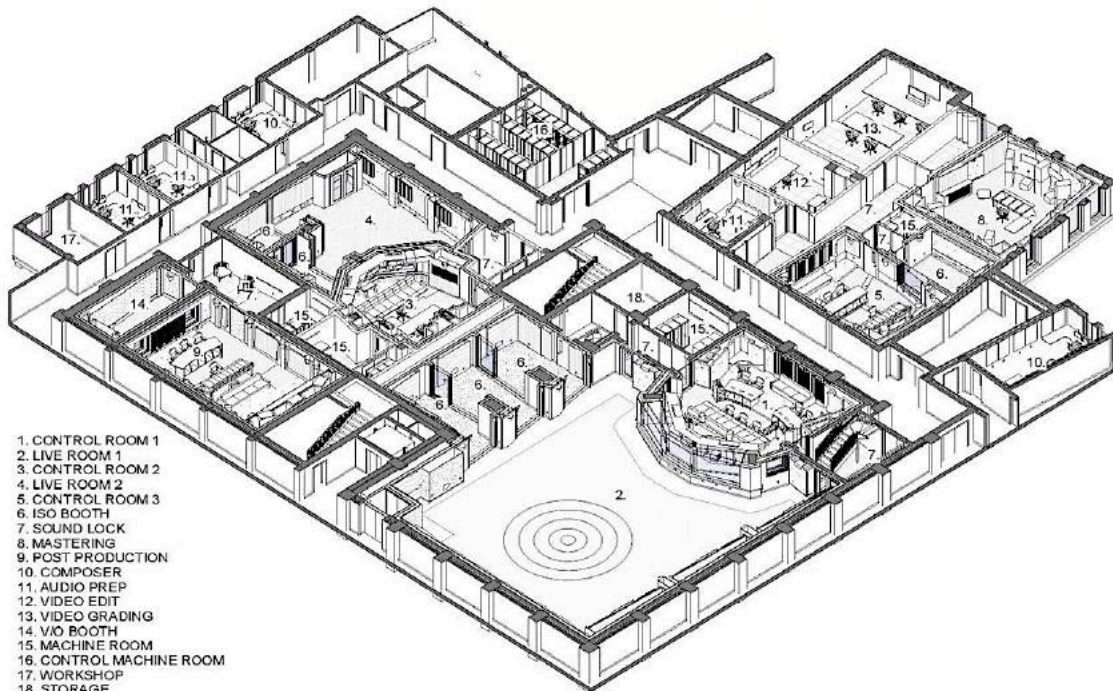


Katara Studios – Doha, Qatar

Doha, the capitol and principal city of Qatar, has welcomed the completion of Katara Studios, one of the Middle East's largest and most technically advanced recording/audio production complexes. Created by WSDG, the 65,000 ft² / 6040 m² compound, represents a major facet the Katara Committee's mandate to establish Doha as one of the most vibrant media centers on The Persian Gulf.

The sprawling, 40+ room complex features three distinct recording studios, distinguished by the 3,000 ft²/278 m² Studio 1 Live (orchestral) Room, capable of hosting 80+ musicians. Live 1 is crowned by a towering 30' / 9 m high ceiling and is equipped with a 582 ft²/54 m² VIP Lounge, designed to perform triple duty as a lounge, Iso Booth or to provide additional room volume for the orchestral recording space.

Aesthetics were a critical concern of the creative program. Katara Studios management was committed to incorporating authentic Arabic design elements throughout the complex. WSDG Co-Principal/Interior Designer, Beth Walters, and Partner/Art Director, Silvia Molho performed extensive research on Islamic and Muslim architecture. Studying the traditional, vibrantly colored Arabic palette, they developed methods to incorporate components of intricately patterned Islamic calligraphy and mosaics. By creatively weaving them throughout the ultra modern complex in a completely organic fashion, they produced a successful design model. A series of custom designed "Magic Ceiling Cubes" provide mood lighting and also serve as membranous, low frequency absorbers. Thanks to a novel 'pocketing' scheme the Studio 1 Live Room's three oversized ISO Booths can function independently be re-configured in a variety of permutations.

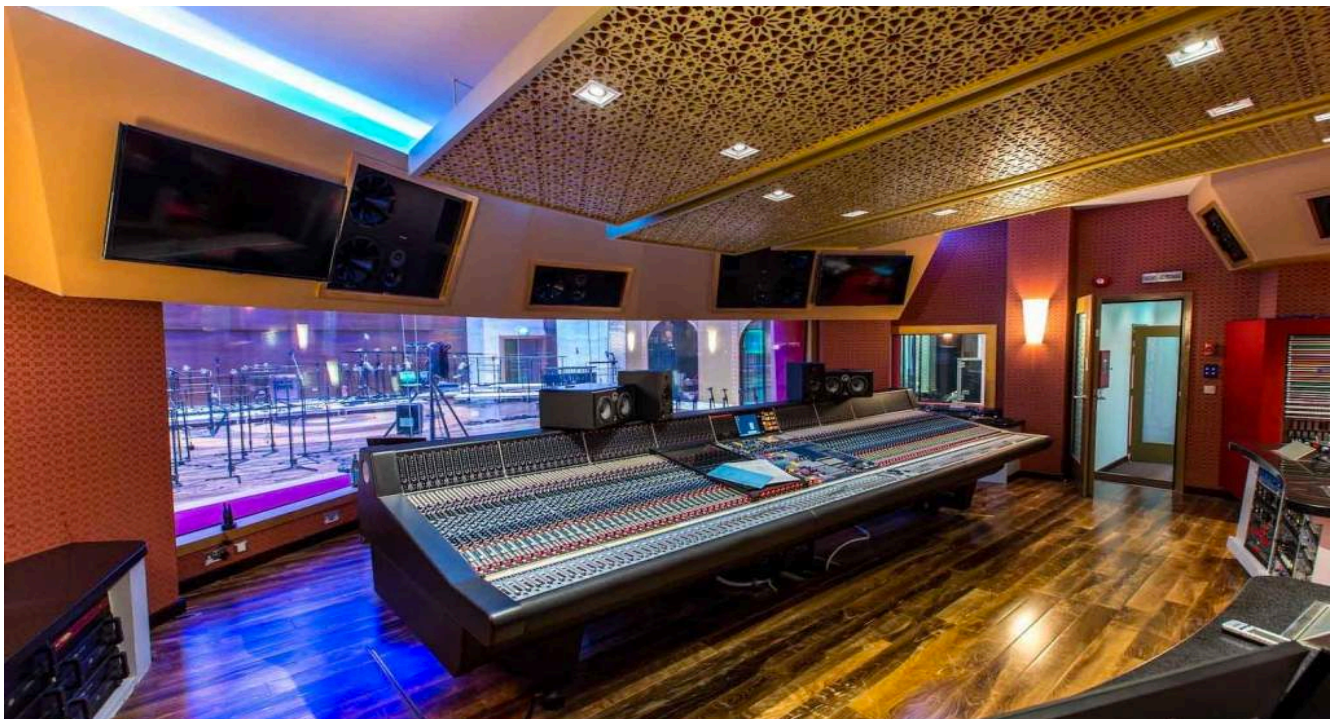
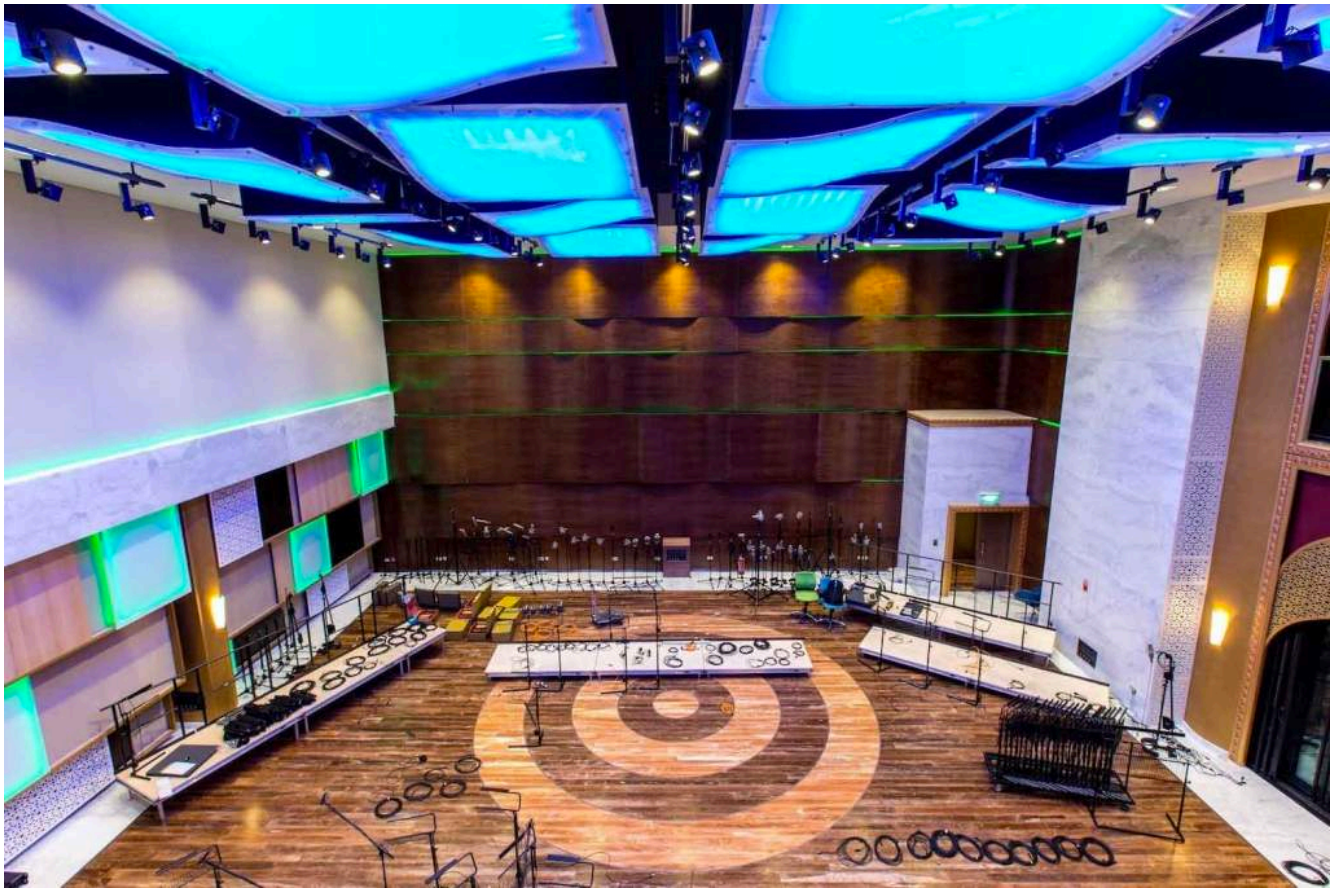


1. CONTROL ROOM 1
2. LIVE ROOM 1
3. CONTROL ROOM 2
4. LIVE ROOM 2
5. CONTROL ROOM 3
6. ISO BOOTH
7. SOUND LOCK
8. MASTERING
9. POST PRODUCTION
10. COMPOSER
11. AUDIO PREP
12. VIDEO EDIT
13. VIDEO GRADING
14. V/O BOOTH
15. MACHINE ROOM
16. CONTROL MACHINE ROOM
17. WORKSHOP
18. STORAGE

Walters-Stork Design Group
www.wsdg.com

Sout al Khaleej
Doha, Qatar

Katara Studios - Doha, Qatar



Dream Asylum - Miami, USA

One of the contemporary music scene's most prolific hit producers, Nate 'Danja' Hills and partner Marcella Araica have added a cutting edge, Walters-Storyk Design Group recording studio to their N.A.R.S. (New Age Rock Stars) label. Recognized for their work with artists ranging from Britney Spears and Madonna to Justin Timberlake, Mary J. Blige and Jay-Z, Danja and Araica will now have the luxury of working in a studio ideally suited to their creative needs.

Dream Asylum's 600 sq. ft. Live Room/Iso Booth is linked to two primary Control Rooms via below-floor wiring channels, to provide flawless connectivity throughout the complex. The elegant 360 sq. ft. Control A features handsome, custom-designed wooden wall mounted equipment cabinets which bookend an oversized client couch set on a raised platform beneath a dropped ceiling. A custom designed rear wall wooden resonator, and a dramatic geometrical ceiling cloud distinguish the 269 sq. ft. Control B. Both control rooms are outfitted with identical (SSL9000 consoles) and WSDG/ Augspurger Monitor Systems. Thanks to impeccable room-within-room isolation, Dream Asylum enables Danja and/or Araica to record live sessions via either control room while a second engineer/producer simultaneously mixes another project. Distinguished by a striking oversized "fan" inspired ceiling cloud; a 192 sq. ft. mixing/writing room has been created for guest artists.

WSDG Project Manager Romina Larregina reports, "We worked closely with Marcella to find the most appropriate site for the studio, and formal design work on Dream Asylum Studio began in 2011. She is extremely savvy about design and acoustical issues, and having knowledgeable clients who can articulate their design and technical goals is always a plus."



Dream Asylum - Miami, USA

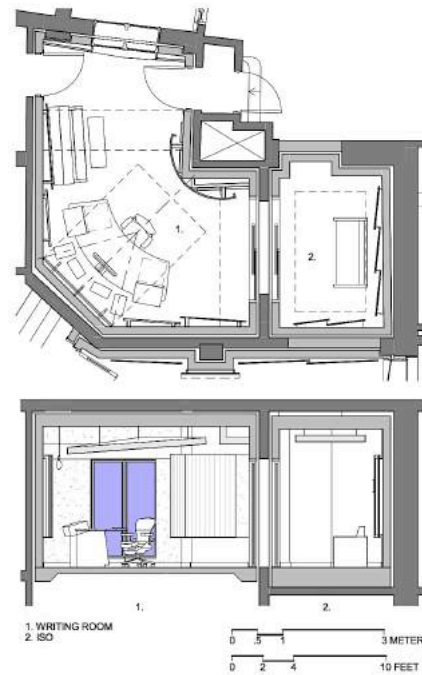
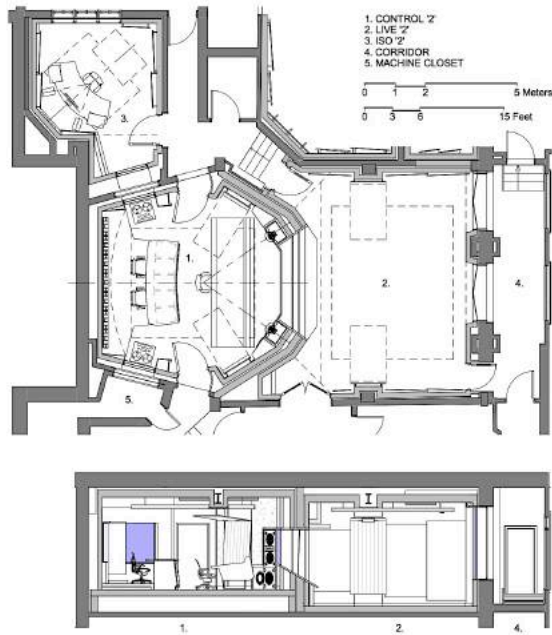


The Church Studios - London, United Kingdom

Grammy and Academy Award-winning producer Paul Epworth (Adele, Cee Lo Green) brought WSDG on board to reconfigure the famed Studio A Live, SSL Control Rooms and the addition of the Writers Room when he purchased The Church Studios. Interior aesthetics have been drawn from a palette of subtle whites which may then be 'colorized to desired mood' by a sophisticated computer program. The new, fully floated 352 sq. ft. Control Room A will continue to rely on the studios' vintage, multi-platinum SSL console and new, custom-designed WSDG/Augsburger main monitors. The 438-sq-ft-by-11 ft. high ceiling Studio A Live Room will feature impeccably tuned custom designed wall and ceiling acoustic treatments. The elegant, new ultra-modern 190 sq. ft. Writing Room includes a sleek, wall-mounted Data/Power Cable "box skirt" cabinet to support the uncluttered creative atmosphere.



The Church Studios - London, United Kingdom



Miles
Walters-Storyk Design Group
www.wsdg.com

The Church Studios
Studio 2 - London, UK

Miles
Walters-Storyk Design Group
www.wsdg.com

The Church Studios
Studio 3 - London, UK



Diante Do Trono - Belo Horizonte, Brazil

Diante do Trono is the most successful Brazilian gospel band of the church Batista da Lagoinha. The group's career started in 1997 and has performed not only around Brazil but also in various other countries around the world. The monastery is formed by 50 musicians and has already released over 25 albums, and sold over 3 million copies.

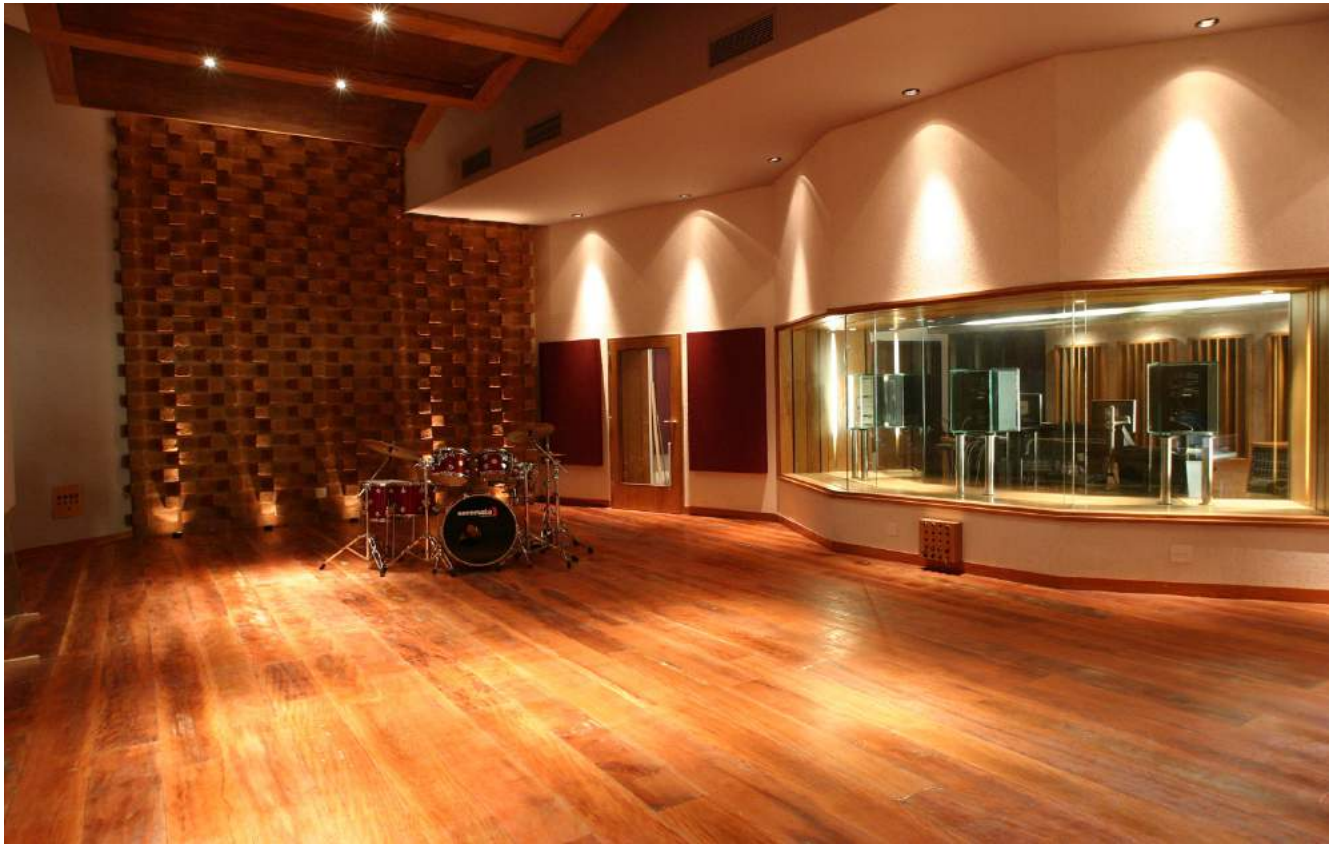
The facility is divided in three distinct areas: the main studio is 600 square feet with a 350 square foot 5.1-capable control room with two isolation booths and an equipment room. On the first floor is another recording room attached to a control room and an edit room, all-adding up to 600 square feet. Outside the studio areas there is a lounge with a barbecue space, along with an office space and a lounge.

In order to provide a flexible space for different recording applications, the studio was equipped with numerous types of variable acoustic panels, including motorized units installed at the ceiling that can be remotely controlled inside the control room. This way, after setting up the microphones for a recording session, the engineer can adjust the room acoustics to the desired time response according the musical needs. The room also received a large diffusion surface created with special bricks from recycled materials.

Another unique feature is the installation of all three front speakers inside the glass of the control room. This innovative idea presented a great acoustical challenge, but resulted in a perfect sight of the entire studio live room, while still maintaining the ideal positioning of the front speakers, at ear level, in accordance with the most current professional audio standards.



Diante Do Trono - Belo Horizonte, Brazil



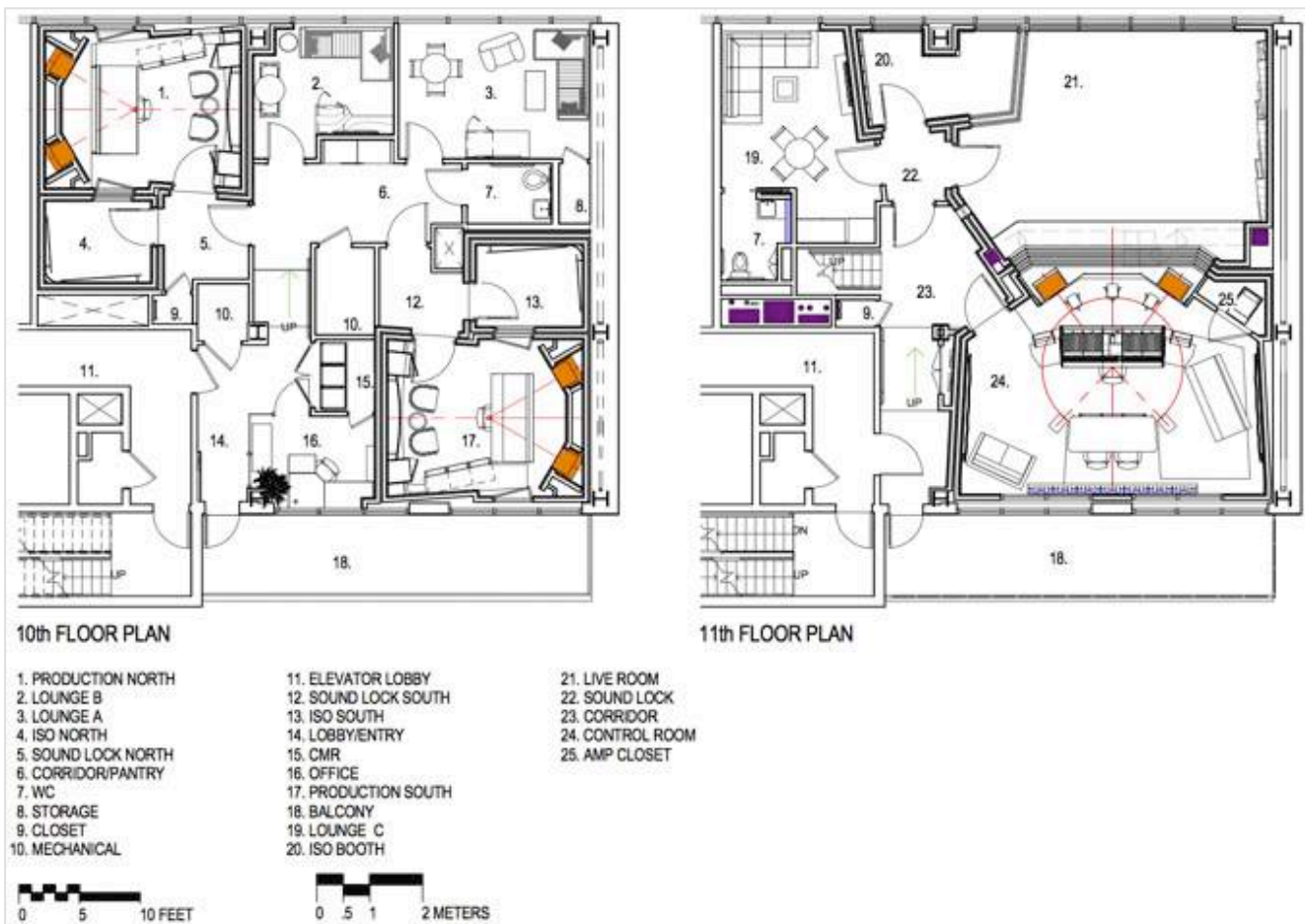
Jungle City Studios - New York, USA

Studio founder/engineer Ann Mincieli has invested over ten years of experience as Alicia Keys' engineer/album coordinator/studio director, and works with artists ranging from Coldplay to Usher and Jay-Z. Miss Mincieli has created Manhattan's first true destination studio.

The challenge of creating the signature 11th floor live studio/control room directly above the two 10th floor production suites in a newly constructed lightweight, concrete building presented complex isolation challenges.

To maximize the impact of the studios' expansive North and South picture windows, WSDG floated the custom speakers in an outsized glass speaker baffle. This created a kind of transparent "wall of sound" between the live and control rooms, which provides artists and engineers with the creative advantage of full visual connectivity. In addition, our isolation details allowed us to install the expansive window wall to expose an impressive view of the Manhattan skyline and the new Highline Park, while maintaining strict isolation requirements for studio use. Test results show an NC rating of 15, which is very low for a glass wall application.

For more information, please see New York Times article:
<http://www.nytimes.com/2011/01/26/arts/music/26studio.html>



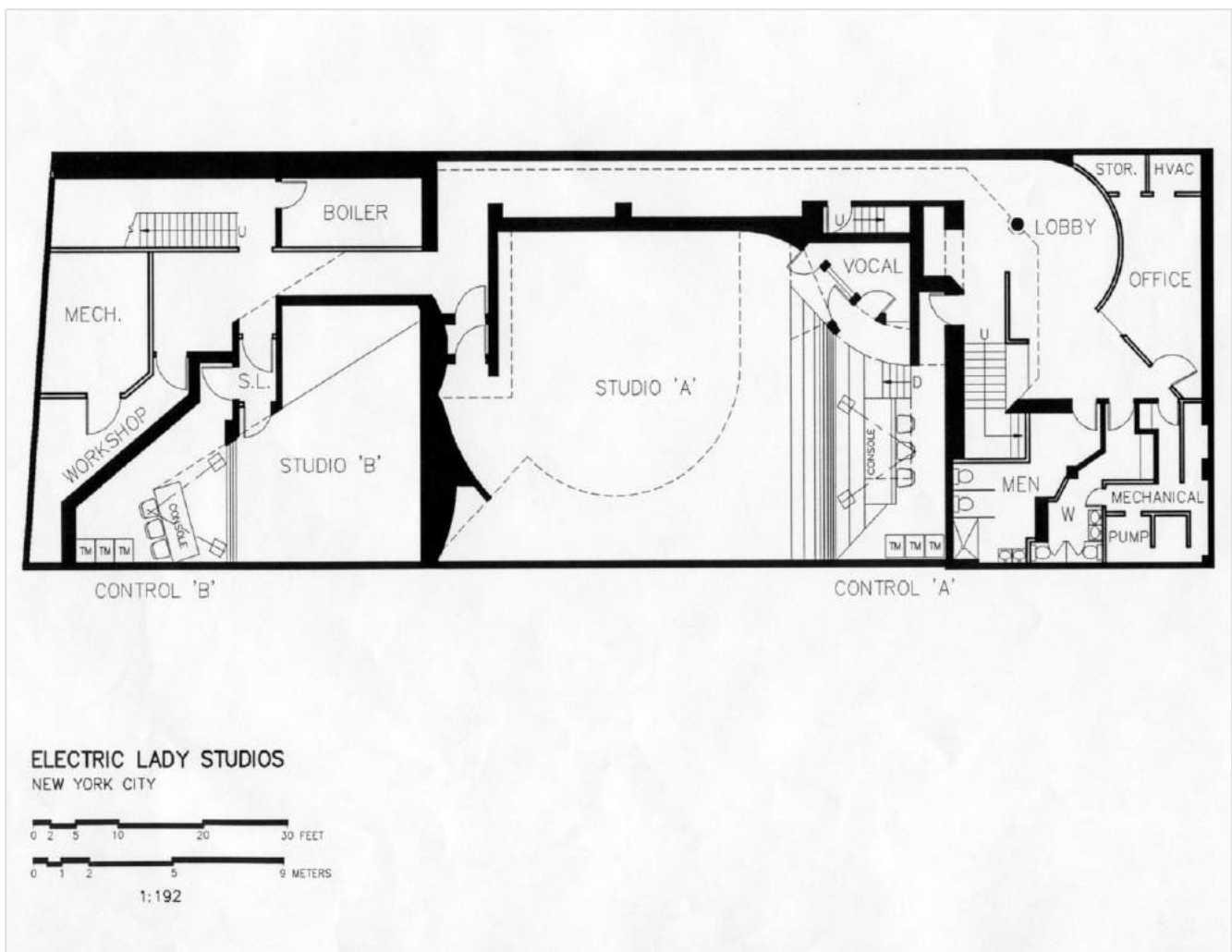
Jungle City Studios - New York, USA



Electric Lady Studios - New York, USA

At age 45 and counting, Electric Lady is one of the world's first artist owned recording studios and one of the oldest, most famous and most successful studios ever. WSDG co-founder John Storyk was a 22-year-old fledgling architect fresh out of Princeton University when he was hired to design a studio for Jimi Hendrix. One summer evening in 1968, Storyk was enjoying an ice cream cone and leafing through the Village Voice when a classified ad caught his eye: "Carpenters wanted to work for free on experimental nightclub." Dialing the number from a corner pay phone, he got the gig.

Kramer was adamant about Electric Lady having a tall, bright room similar to NY's legendary A&R Studios where Phil Spector did some of his greatest work. Kramer was also familiar with European studios like London's Olympic and Abbey Road. He believed drums required a big room. Storyk accommodated Kramer's need for high ceilings by excavating the basement, digging down to raise the height of the underground rooms. For the studios interior, Jimi specified theatrical lighting, and his desire to have as many curved surfaces as possible (design elements which Storyk had originally incorporated in Cerebrum). Electric Lady's walls were painted white, so they could easily be turned into whatever color Hendrix was in the mood for with simple adjustments. One day Jimi arrived at the construction site and decided that he didn't like the square look of the expensive acoustic doors, which had just been installed. He asked Storyk if he could round off the tops, and when that proved impractical, he had them replaced by custom units with rounded, porthole-style windows.



Electric Lady Studios - New York, USA



Estudio 13 - Mexico City, Mexico

For over seventeen years, Estudio 13 recorded diverse projects in their original Mexico City facility and, on location in major concert halls. This on-going success led to the need for a larger, more acoustically advanced recording space. Company Head Producer/Musical Director, José Francisco Aguilera, and Studio Operations/Project Manager, Eduardo Acosta agreed that expansion was critical. They contacted WSDG co-principal Sergio Molho, and began to search for a site for the seven-story ground-up building they envisioned.

WSDG signature acoustics were developed and fine-tuned by Partner/Acoustician Renato Cipriano. With two spacious Iso booths, Estudio 13 is ideal for flawless tracking. Designed primarily for stereo mixing and mastering, the 3rd floor Control Room B and Iso booth are also geared for voice-over and radio recording. To provide effortless communication between artists, producers and engineers, the entire complex was fully wired for video as well as audio connectivity.

Partner/Art Director Silvia Molho, worked closely with the clients to develop a handsome, spacious, colorful complex trimmed in natural wood and varying hues of blue and purple. Estudio 13's numerous windows provide natural sunlight, star and moon light. Extensive glass between Control Rooms, Iso and Live Rooms provide welcome live visual connectivity. A 3-story glass wall, slanted inward at the ground floor provides the building with additional acoustic isolation from exterior sources and, a distinctive architectural touch. Estudio 13 offers a collection of 100+ vintage and modern microphones, a deep pool of contemporary and classic analog peripherals and, a wide range of guitars and other instruments for clients use.



Section View West

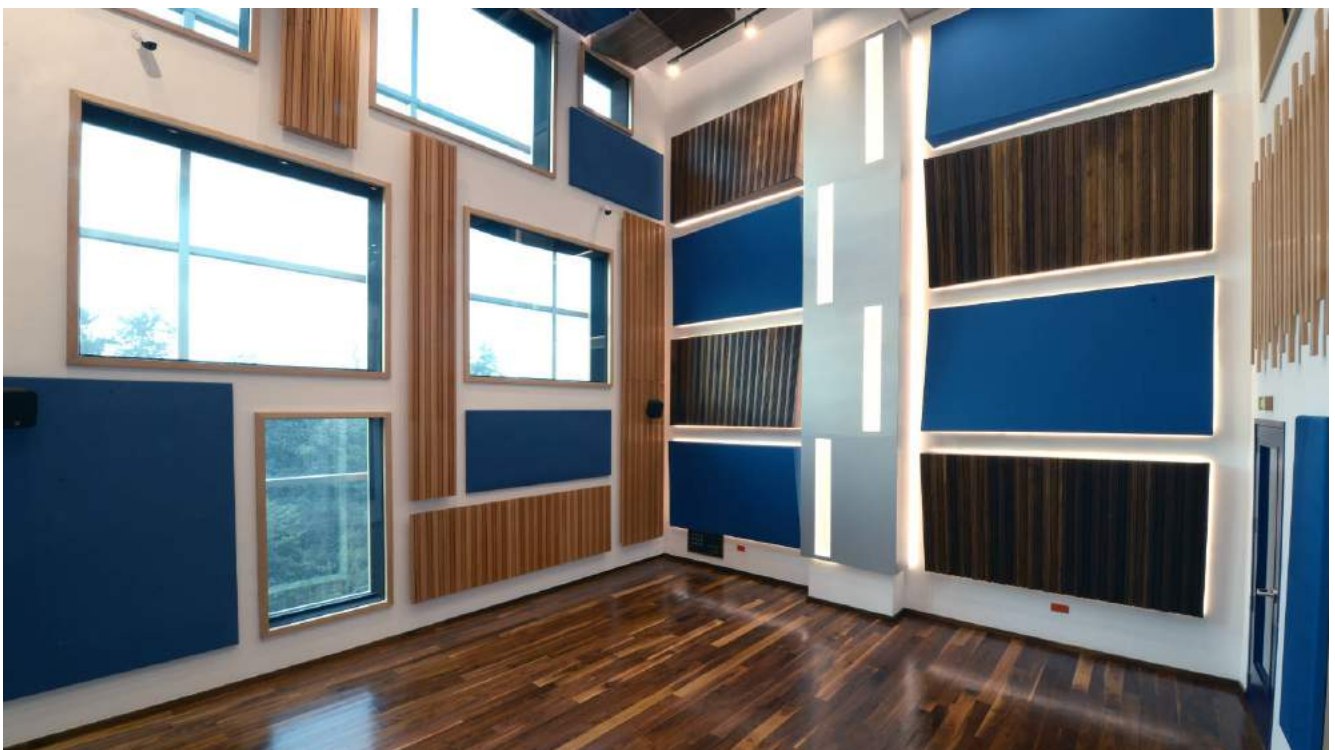


Section View East



Estudio 13
Mexico D.F., Mexico

Estudio 13 - Mexico City, Mexico

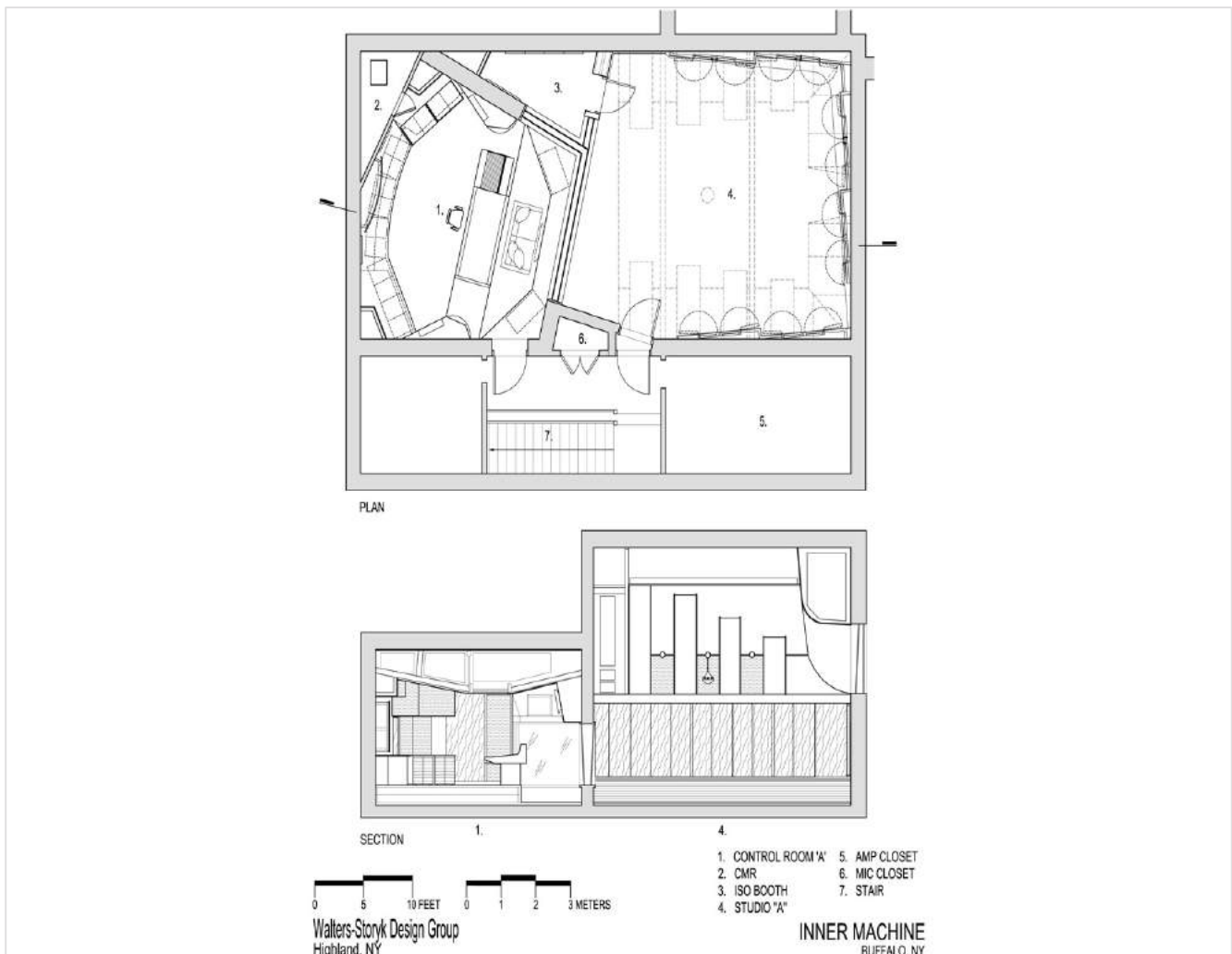


Goo Goo Dolls – GCR Audio - Buffalo, USA

Twenty-five years ago John Storyk designed TrackMasters, in Buffalo’s historic Allentown District. The studio built a solid reputation as one of upstate NY’s best-sounding and most artist-friendly audio recording facilities. In 1986 three studio engineers, John Rzeznik, George Tutuska and Robby Takac formed a band they christened Goo Goo Dolls, and went on to sell “a lot” of records.

Today, original band members Rzeznik and Takac own TrackMasters. The first thing they did after acquiring the studio was to change its name to ‘The Inner Machine.’ Their next move was to invite architect/acoustician John Storyk and the Walters-Storyk Design Group back to develop a dramatic redesign and upgrade for the facility.

”It was great to hear from John and Robby” Storyk says. “Every so often we get a chance to revisit an earlier project. I relish the opportunity to assess what worked, what did NOT work and what can be made to work better.” The studios’ live and control rooms are housed in the 1100 sq. ft. 2nd floor of the 150+ year-old former St. Margaret’s Girls School Convent which is part of a unique “Jeffersonian” arts campus.



Goo Goo Dolls – GCR Audio - Buffalo, USA

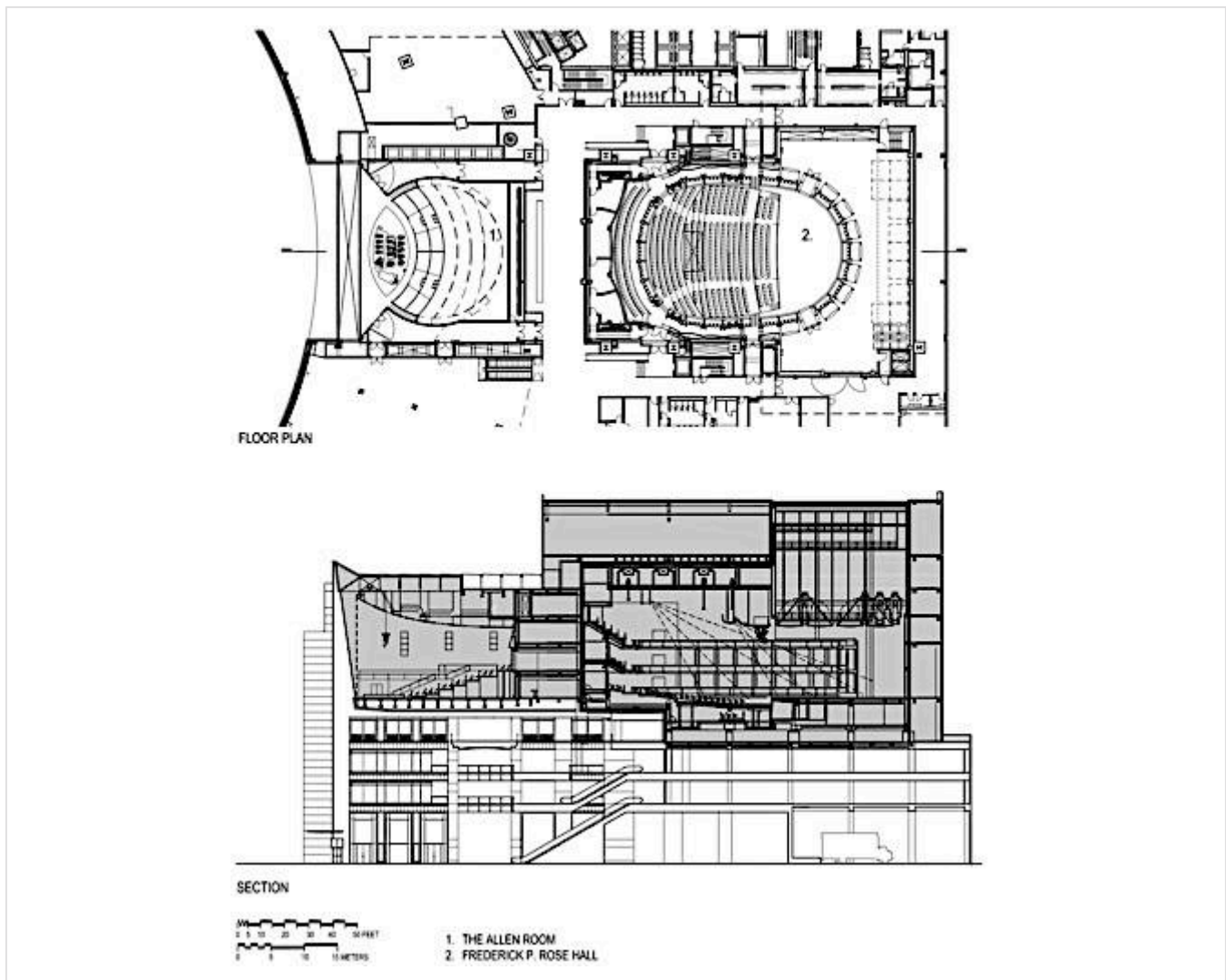


Jazz at Lincoln Center - New York, USA

Jazz at Lincoln Center opened in the fall of 2004. This 100,000-square-foot facility houses performance venues, an educational wing and recording/post production facilities.

The Frederick P. Rose Hall project consists of a 1,200-seat concert hall with movable seating towers. The hall can be set up for dance and opera and can also be reconfigured to provide an intimate jazz setting by surrounding the musicians with the audience seated on three levels. The Allen Room is a 300-600 seat performance space with tiered platforms ascending from the stage level to a dance floor with movable tables and chairs. The Irene Diamond Education Center is 3,500 square feet and contains two state-of-the-art education/rehearsal studios.

WSDG, as partners in the Sound of Jazz Consulting Group, worked closely with the architects and Wynton Marsalis to acoustically design the education, rehearsal and recording spaces. The systems integration design for all performance, educational and listening spaces within this facility are linked together for recording and playback. This facility is the world's first performing arts center designed specially for the performance and recording of jazz.



Jazz at Lincoln Center - New York, USA

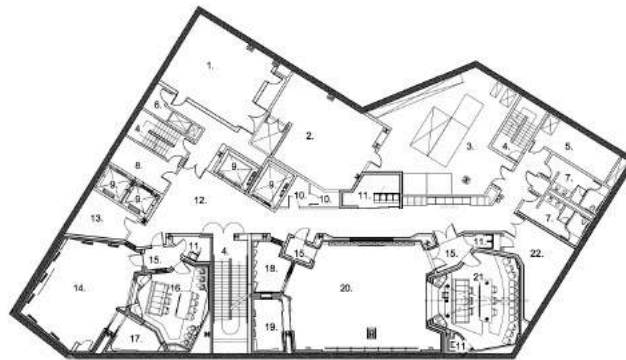


Berklee College of Music – 160 Mass Ave - Boston, USA

For one of its latest real estate acquisitions, Berklee College of Music is creating *160 Massachusetts Avenue*, a 16-story, 170,000-square-foot mixed-use building. Upon completion, it will house dorm rooms with 350 beds, increasing Berklee's on-campus housing capacity to approximately 1,200 students, as well as a two-story dining hall that will have seating for 400 and a new venue for student performances. It will also contain two levels below grade with recording studios designed with the highest standards of acoustic room treatment through the use of absorption and diffusion materials on the surfaces of the rooms, and soundproofing, to provide sonic isolation between the rooms.

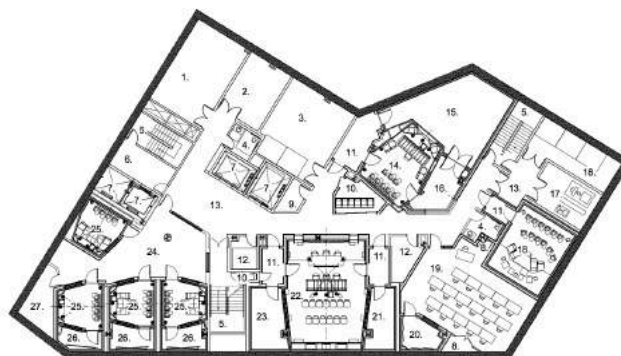
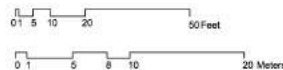
The music technology complex will include two professional-quality recording studios, a Dubbing Stage, a Mastering and Critical Listening lab, four production suites and a flexible performance venue / film scoring studio. WSDG designed the acoustic rooms in collaboration with chairs, deans, and technology lab staff from the Berklee College of Music. Students can enjoy performance spaces that emulate professional environments, with state-of-the-art equipment and a wide variety of musical instruments.

In addition, WSDG is working on the two-story dining hall to address internal room acoustics, specifically with regard to the general intelligibility of the dining hall. Start of construction is planned for fall 2011, and the building opening for the 2014 spring semester.



LEVEL B1 - FLOOR PLAN

- | | | |
|-----------------------|-----------------------|------------------------|
| 1. NSTAR VAULT | 9. ELEVATOR | 16. CONTROL ROOM 2 |
| 2. MAIN ELECTRIC ROOM | 10. ELECTRICAL CLOSET | 17. ISO 2 |
| 3. MECHANICAL | 11. EQUIPMENT CLOSET | 18. ISO 1.1 |
| 4. STAIRWAY | 12. CORRIDOR 1 | 19. ISO 1.2 |
| 5. MDF ROOM | 13. GENERAL STORAGE | 20. STUDIO 1 |
| 6. UTILITY/TRE INS | 14. STUDIO 2 | 21. CONTROL ROOM 1 |
| 7. RESTROOM | 15. SOUND LOCK | 22. PERCUSSION STORAGE |
| 8. ELEVATOR LOBBY | | |

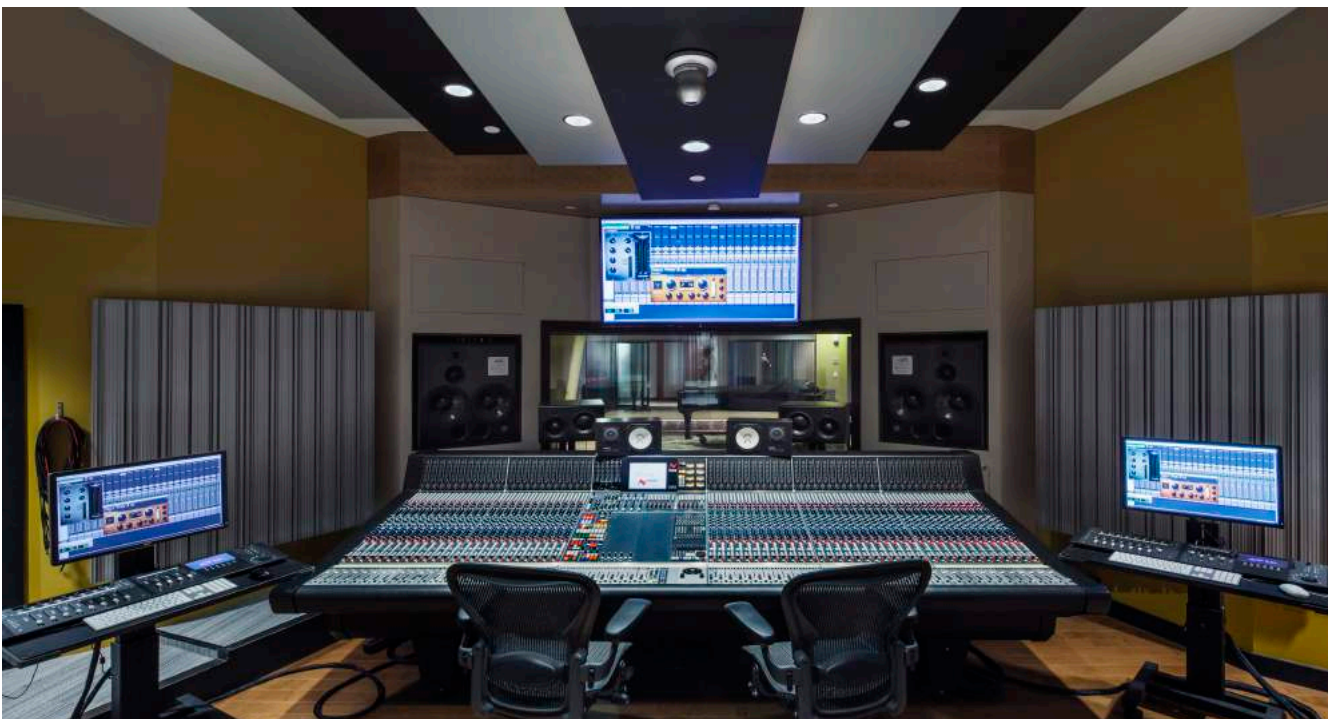


LEVEL B2 - FLOOR PLAN

- | | | | |
|--------------------------------------|----------------------|--|-----------------------|
| 1. FUTURE MUSIC TECH-GENERAL STORAGE | 8. CLOSET | 15. STUDIO 3 | 22. DUB STAGE |
| 2. GEN TANK | 9. ELECTRICAL CLOSET | 16. ISO 3 | 23. DUB - ISO 1 |
| 3. MECHANICAL | 10. EQUIPMENT CLOSET | 17. FIRE PUMP | 24. PRODUCTION LOUNGE |
| 4. RESTROOM | 11. SOUND LOCK | 18. MASTERING AND CRITICAL LISTENING LAB | 25. PRODUCTION CR |
| 5. STAIRWAY | 12. MECH. CLOSET | 19. TECH LAB | 26. PRODUCTION ISO |
| 6. ELEVATOR LOBBY | 13. CORRIDOR | 20. OVERDUB BOOTH | 27. STORAGE |
| 7. ELEVATOR | 14. CONTROL 3 | 21. DUB - ISO 2 | |



Berklee College of Music – 160 Mass Ave - Boston, USA

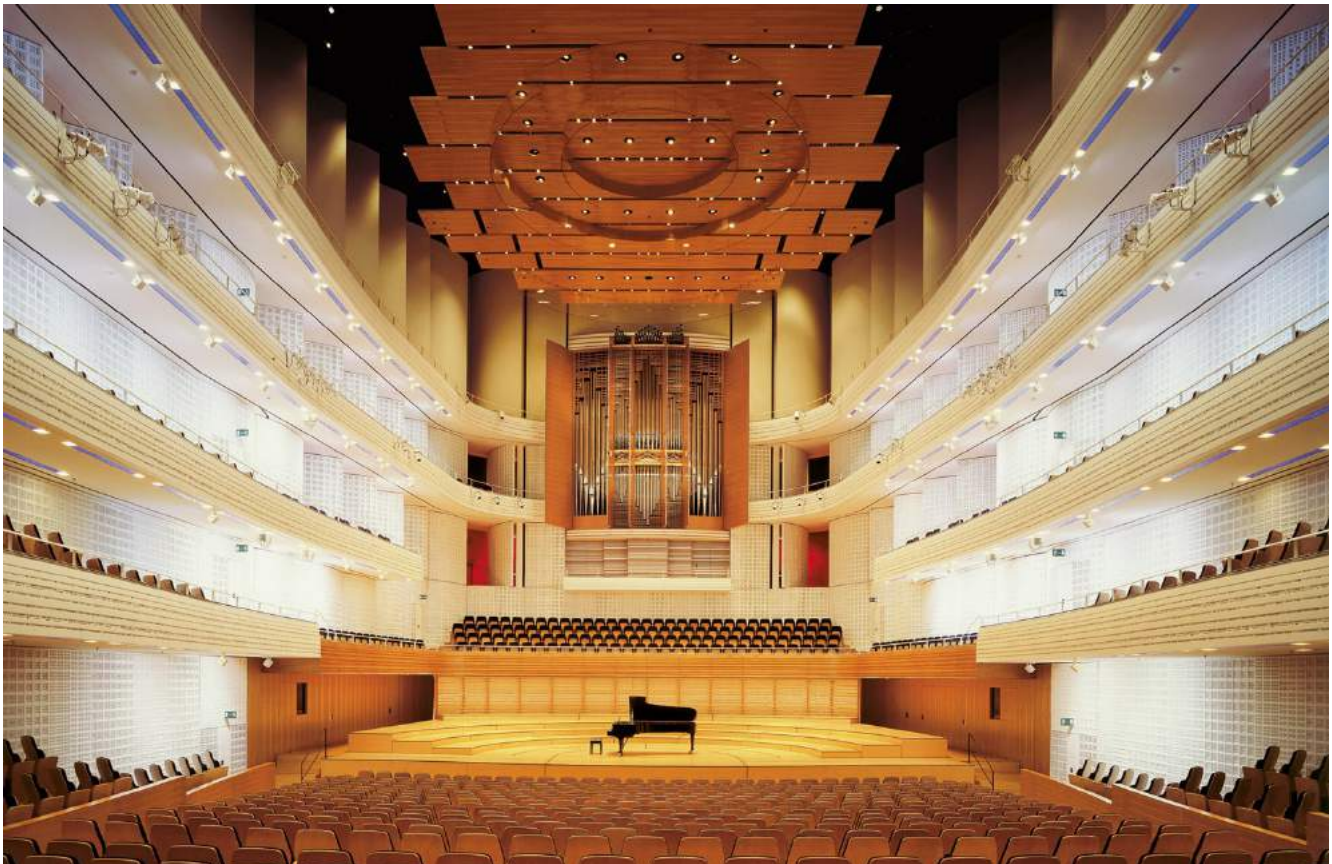


KKL Concert Hall - Luzern, Switzerland

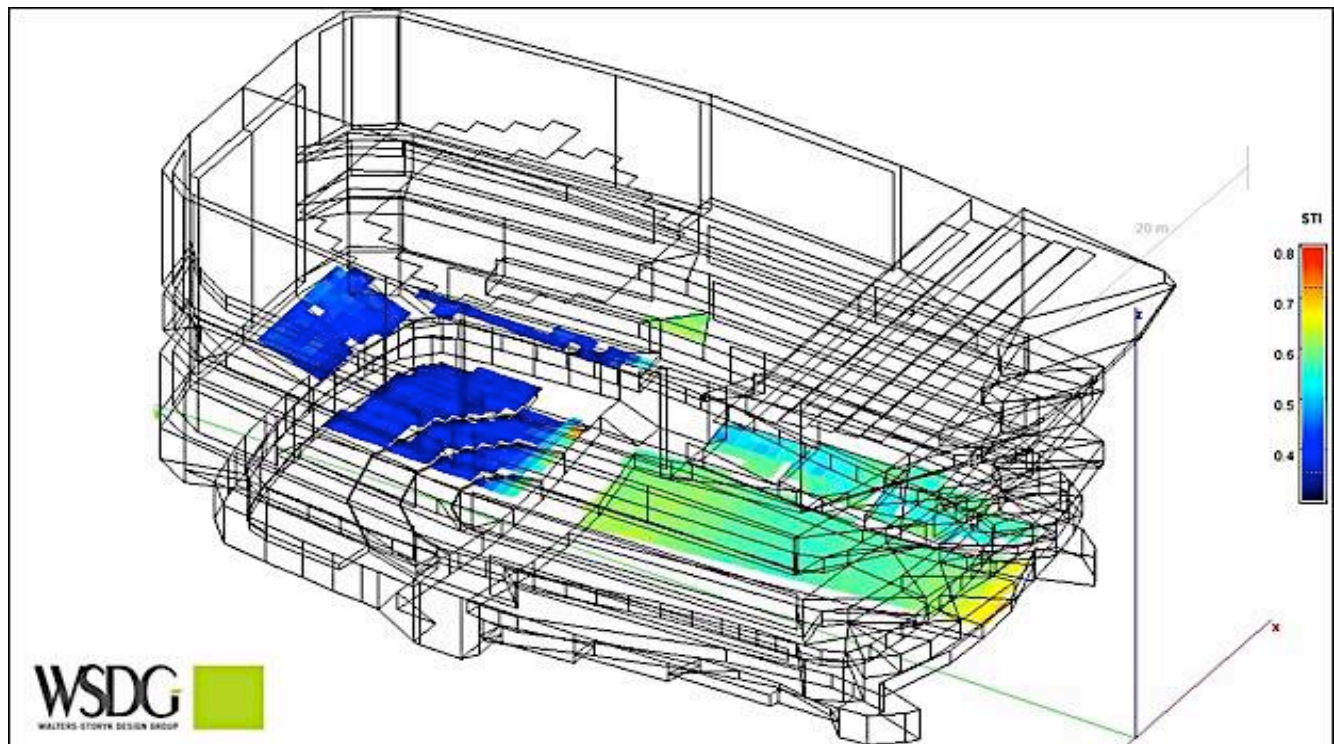
From its opening performance by the Berlin Philharmonic in August 1998, the KKL Luzern Concert Hall was recognized as one of the world's great performance centers. An international landmark, both architecturally and culturally, the complex attracts music fans from around the world to its picturesque lakeside setting. A dozen years of constant use – with an impressive yearly booking rate of more than 90% – coupled with significant technological advances prompted the KKL Luzern management group to upgrade its retractable electro acoustical system. WSDG, an international team of acoustics experts, was brought in to accomplish this essential project.

A major issue of this hall is the wide distribution of seats on five vertical levels surrounding three of the four walls, and consequently, the coverage requirements of the electro acoustical sound system. The core of the solution was the realization that the Hall is mainly designed for acoustical sources placed directly on stage. Consequently, the new main loudspeaker system was installed significantly lower and closer to the stage than the original system. The main system is supplemented by elements, which are permanently installed but retractable by motors. The project was divided into three phases: 1) Identification of the requirements, system planning and preparation of specifications; 2) On-site evaluation of a three loudspeaker system candidates; 3) The execution phase of installation planning, supervision and commissioning.

The new sound reinforcement system consists of the Left Right main system with two line arrays of eight d&b V12 units each, suspended above the stage front edge, two additional line arrays for covering each of the balconies with five d&b V12 units, a stage edge in-fill system consisting of two d&b V-Sub and two d&b V12 units each on the right and left and a stage mounted front-fill provided by six d&b E6 units. For events requiring a 360-degree speech reproduction a retractable center cluster was provided with a front section (consisting of eleven d&b T10 units) and a rear section (consisting of three RCF VSA 2050 digitally controlled column loudspeakers).



KKL Concert Hall - Luzern, Switzerland



STI Speech Transmission Index

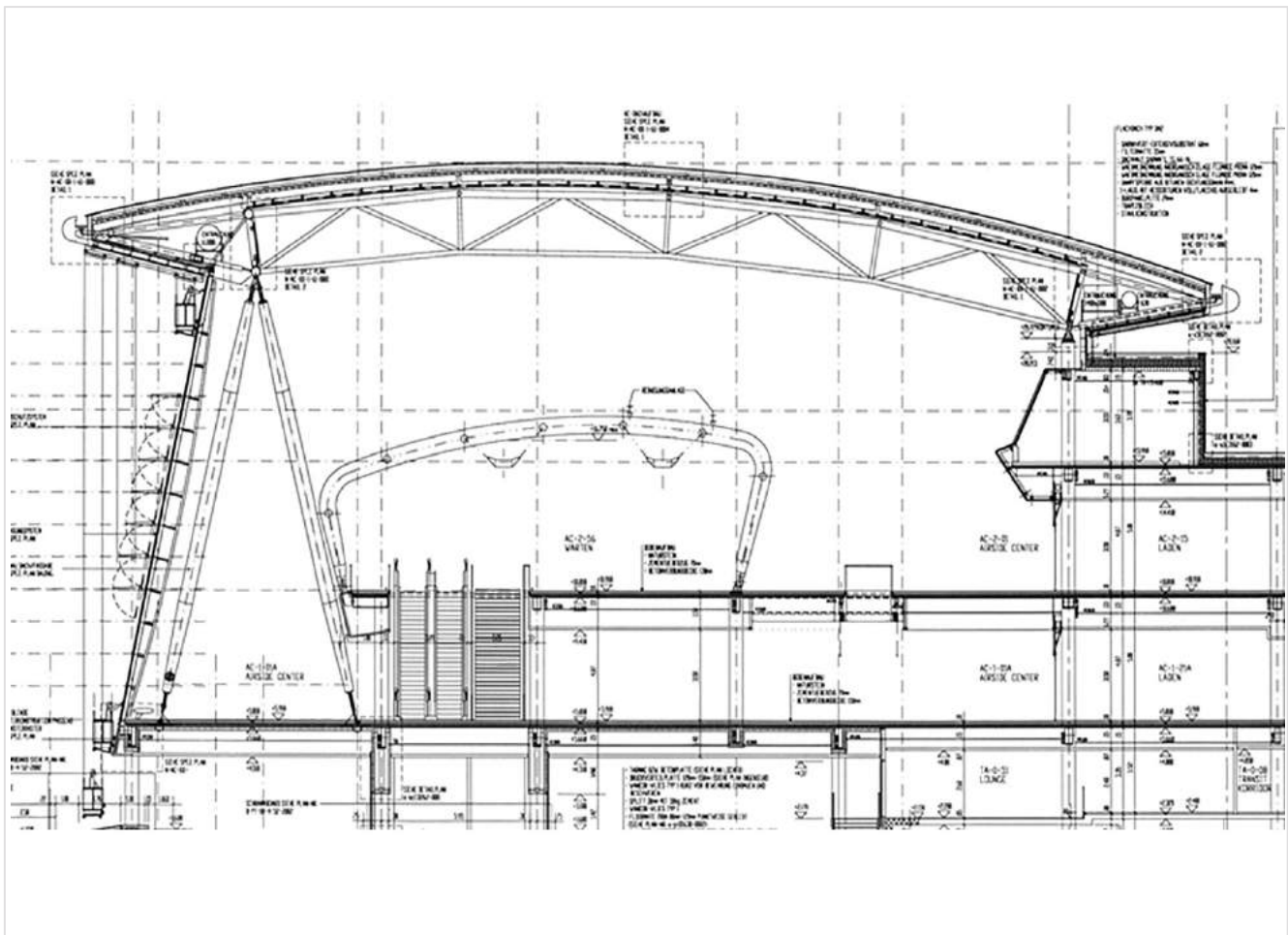


Flughagenkopf – Zurich Airport - Zurich, Switzerland

The Airside Center (A500), located between the existing fingerdocks A and B, acts as a focal point for travellers at the airport. Many new shops and restaurants are opened. The Airside Center project comprises of the new Airside Center, the Underground Skymetro Station which connects the Airside Center to the Dock Midfield, the Arrival Hall just above the Skymetro station, and various renovations within the A and B terminals. The previously existing buildings are all connected and the Airside Center, with its prominent shape, reflects the new identity of the airport.

WSDG was awarded the full electroacoustical design of both these new facilities by the responsible electrical engineering firm, Ernst Basler + Partner AG. WSDG's project scope comprised Definition of electroacoustical project requirements (e.g. Speech Intelligibility, Sound Pressure Levels, Frequency Responses, Coverage etc.) in line with the appropriate national and international standards, including IEC 60849; Electroacoustical design and optimization with assistance of computer simulations and other means of calculation; Specification of electroacoustical components, supervision of driver electronics to the electroacoustical system.

The specified system for the large open spaces with high ceilings is based on Duran Audio's Intellivox loudspeakers (a total of 16 units). These line array loudspeakers offer full digital beam steering control and due to their narrow form factor can be installed close to invisible. Ancillary specified loudspeakers for support spaces and adjacent areas are highly directional units from Frazier and HK.



Flughagenkopf – Zurich Airport - Zurich, Switzerland



ESPN Digital Center 2 - Bristol, USA

ESPN, the global leader in comprehensive sports coverage, has completed a five year development and construction project for its new Digital Center 2 studio/media production center. An ambitious addition to ESPN's existing Digital Center 1 campus in Bristol, Connecticut, the 194,000 square foot complex was envisioned as a "format-agnostic/future-proof" creative production facility with unlimited potential for trail-blazing content creation. A comprehensive green and employee comfort-focused environment were primary goals for the new facility.

With six new production control rooms, four audio control rooms and 16 edit suites, ESPN's Digital Center 2 technical capabilities are exemplified by a multi-dimensional monitor wall featuring 56 variably sized individual monitors designed to provide 3D-like graphic images. An arsenal of 40 state-of-the-art cameras is highlighted by a JITA cam capable of swooping up to a height of 22 feet and following a circular track to deliver a sweeping 360° studio overview. The Center 2 routing system can accommodate as many as 60,000 simultaneous signals over 1,100 miles of fiber optic and 247 miles of copper cable deployed throughout the facility.

All these rooms are dedicated to producing flawless audio and video for programs, , interviews, voiceover recording and the full spectrum of broadcast audio for video support. Overall quietness throughout the entire creative plant was an absolute priority. General acoustical specifications and recommendations were developed for all critical services including HVAC, fire protection and electrical systems. ESPN Digital Center 2 represents the apex of broadcast, cable, and Internet streaming production. The complex stands as a major accomplishment in next-generation audio/video production and delivery.



ESPN Digital Center 2 - Bristol, USA

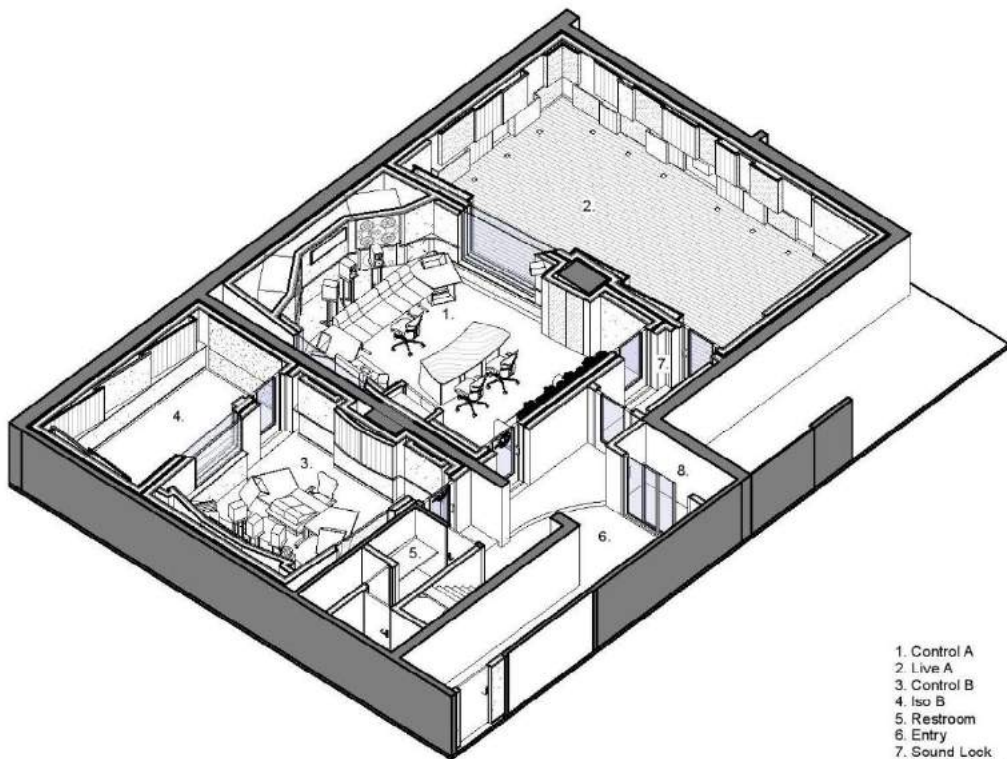


55TEC Studio - Beijing, China

In announcing the completion of 55TEC Recording Studios owner Li You, a Golden Melody Award-winning recording engineer said, "With China now acknowledged as the world's second largest economy, we have seen a tremendous increase in the market for popular music. Over the past ten years a number of major artists have developed huge loyal followings here. China's appreciation of recorded music is enjoying phenomenal growth. This time in our history appears ideal to establish a recording studio and record label to meet this demand." To insure their ability to create the highest quality recordings, 55TEC owners reached out to WSDG.

The 5000 sq. ft. complex features the 930 sq. ft. Studio A's 500 sq. ft. Live Room and spacious 430 sq. ft. control room. Mastering/Post Studio B offers a 230 sq. ft. CR and 150 sq. ft. ISO room.

Handsomely detailed in perforated wood (and slotted metal) wall and ceiling trim, 55TEC personifies the WSDG commitment to 'invisible' acoustics. In contrast to more traditional wall mounted 'variable acoustic treatments' with reflective and absorptive finishes, recently introduced perforated' wood surfaces provide exceptional room tuning options in addition to outstanding aesthetic design options. Vertical LED lighting units accentuate the clean, dramatic lines of CR A's rear wall custom designed Diffuser. The custom-built producers desk at the rear of the CR serves double duty as as a fully loaded, three compartment, outboard gear rack. A 7' w x 6' h soundproof window provides full visual access (and 0 sound leakage) between the Live and the Control Room. The studio also enjoys a spacious lounge, machine room and related support facilities. 55TEC is an impeccable audio recording facility and a visual showplace.



1. Control A
2. Live A
3. Control B
4. Iso B
5. Restroom
6. Entry
7. Sound Lock
8. Machine Closet



55 TEC Records
Beijing, China

55TEC Studio - Beijing, China

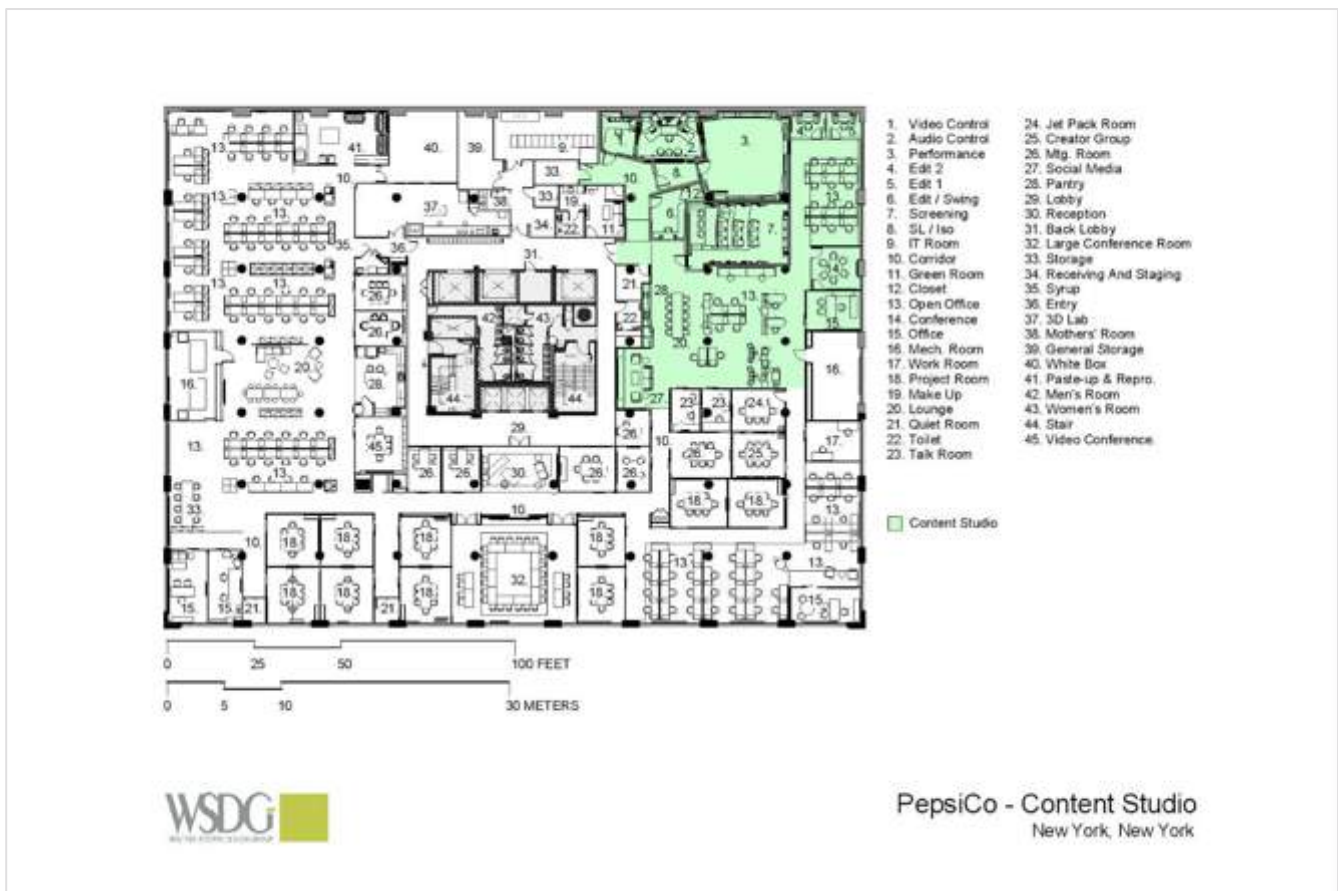


PepsiCo Content Studio – New York, USA

With the goal of initiating and nurturing synergistic relationships with new and established video, music, TV, digital and Internet content creators, PepsiCo commissioned a cutting edge 4,000 sq. ft. production/post-production complex at the hub of NYC’s pacesetter SoHo artistic community. WSDG’s architectural/ acoustical expertise was engaged to collaborate with Granoff Architects to create a technically flawless, aesthetically invigorating environment for the ambitious venture.

Designed to house a team of 6 – 10 technicians and engineers, PepsiCo’s Content Studio features an 1,150 sq. ft. multiuse recording studio, five editing and production bays, a 575 sq. ft. soundstage, a 515 sq. ft. multi-format screening room, an 1,800 sq. ft. ‘loft-like’ creative bull pen and a spacious, informal reception/dining area. The concept was to establish a high tech production facility to provide a community of creative thinkers, artists and producers with the technological resources to foster their vision.

A striking, flexible, highly functional environment, the PepsiCo Content Audio Recording Studio is centered on an SSL AWS 948 console, complimented by a pair of soffit-mounted ATC SCM150ASL stereo monitors. Genelec 8250A monitors provide 5.1 – surround playback. A variety of outboard gear and mic preamps offer a wide range of options. Video is captured on the 26’ x 25’ Soundstage/Performance Area in resolutions up to 4K, and can be routed live throughout the facility in 1080p through SDI tie lines. A broadcast grade production switcher (Newtek Tricaster 460) expedites video feeds for live editing and processing for webcast, or to be stowed on the Promax storage array. The switcher offers a full selection of video post-production tools, including live Chroma keying, virtual sets and color correction. Post also boasts a full nonlinear editing station and a digital audio workstation for ADR. Green Screen and LED production lights are managed from the VCR.



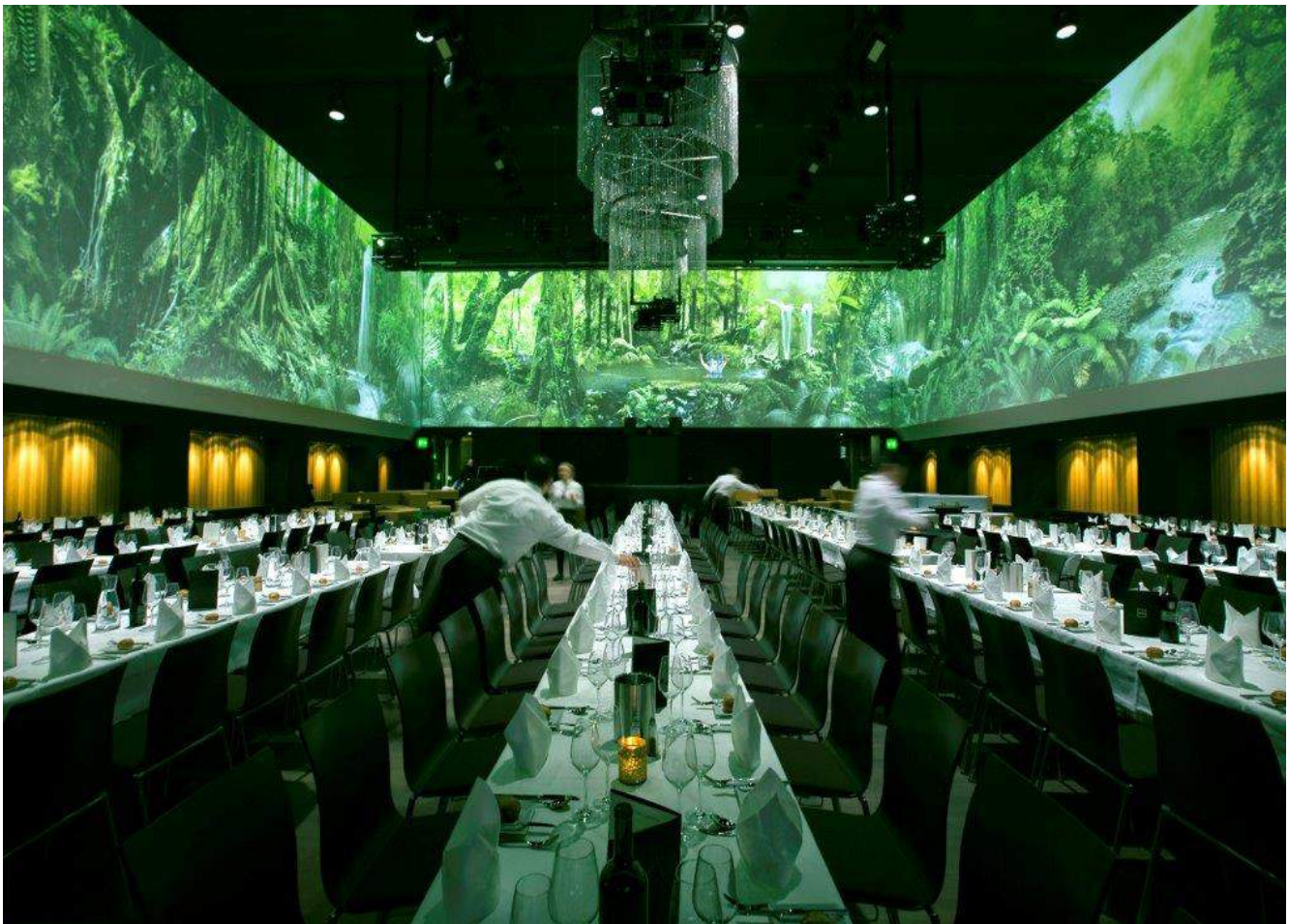
PepsiCo Content Studio – New York, USA



Aura Club Events Hall - Zurich, Switzerland

Built within the historic 21,000 sq. ft. (2,000 sq. meter) former “Alte Boerse” Zurich Stock Exchange Building, AURA encompasses four distinct settings, a 100 seat gourmet restaurant, an intimate bar, a chic, stylish smokers’ lounge and, a 4,800 sq. ft. (450 sq. meter) Events Hall capable of accommodating up to 500 guests. Featuring groundbreaking 360° panoramic video projection and 3D audio systems, the Events Hall is designed to host galas ranging from awards and fashion shows to banquets, weddings and corporate gatherings. AURA’s uniquely flexible, multi-purpose strategy required the amalgamation of state of the art technology, within a highly sophisticated acoustic environment. The video presentation system engages eight, ceiling-mounted, high-performance projectors. Audio distribution employs a total of 80 loudspeakers, (70 of which are skillfully concealed by acoustically transparent, architectural construction). Deploying such a massive arsenal of cutting edge technology within this urbane, 21st Century atmosphere necessitated an extremely flexible and creative systems integration.

Aura’s vision for 3D audio presentation required full integration with the venue’s video imagery and innovative lighting, to establish a combined central focus for the Events Hall. All three elements were tasked with functioning interactively, to achieve a fully immersive environment capable of completely engaging guests within messaging and/or entertainment programs. WSDG’s Basel office was retained to design and coordinate the massive sound isolation planning and construction project to fully adhere to Zurich’s stringent city center legislations and limits. Various preset programs were developed to enable a myriad of speaker combinations (all together, or in an infinite range of individual or cluster groupings), depending on need, e.g. live performance, 3D surround sound, etc. Additionally, the ‘sweet spot’ can be expanded to encompass the entire room, providing a spatial sound experience for all guests.



Aura Club Events Hall - Zurich, Switzerland



Rio 2016 – Barra Olympic Park - Rio de Janeiro, Brazil

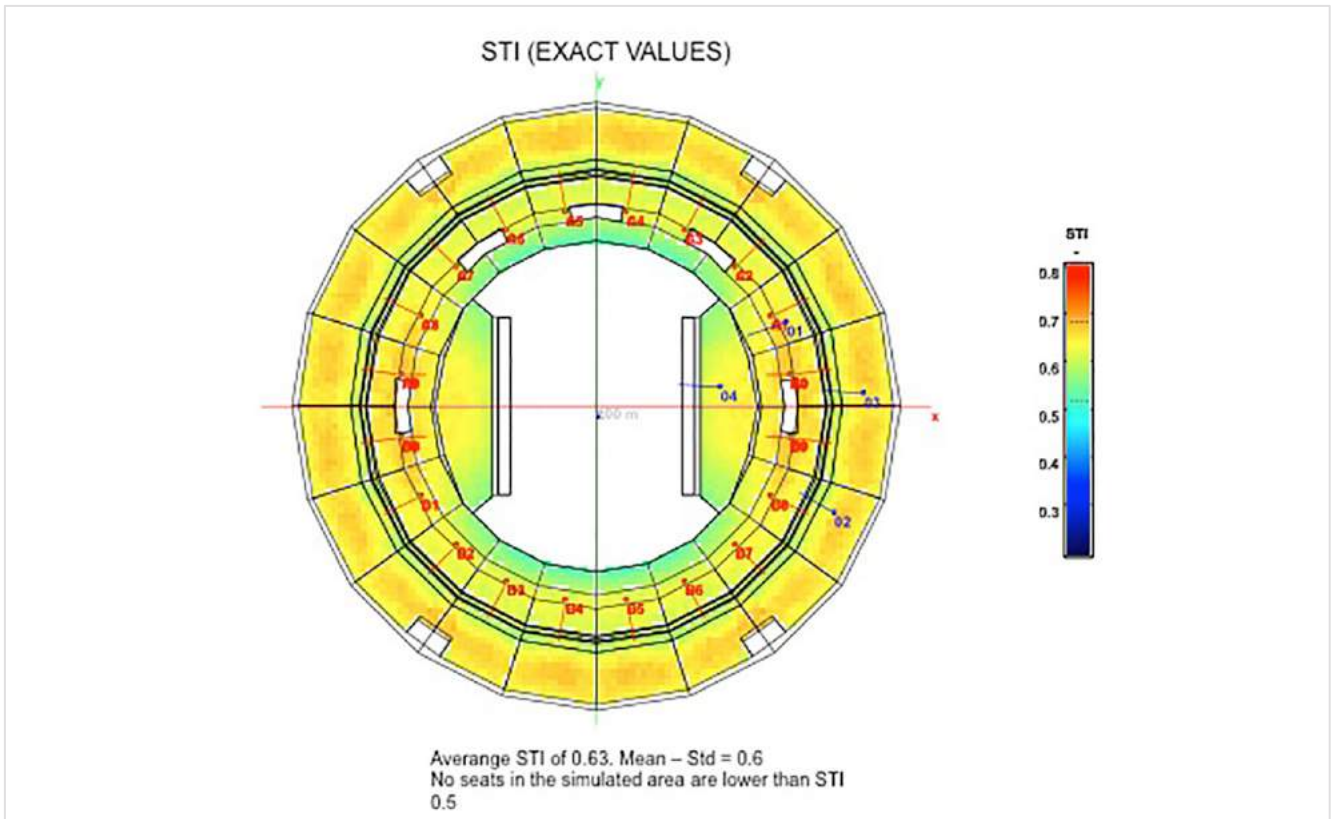
Barra Olympic Park is being developed as Rio's primary 2016 Olympic and Paralympic Games competition centre. It will also serve as the city's largest sporting legacy when the competitions end. With an area of 1.18 million square meters, Olympic Park will include nine sports venues. The Olympic Arena and Maria Lenk Aquatic Centre were built for the Rio 2007 Pan American Games. The seven new stadiums/sports venues are: The Olympic Tennis Centre, Aquatics Stadium and Rio Olympic Velodrome; plus: Olympic Hall 1 (basketball, wheelchair basketball and wheelchair rugby), Olympic Hall 2 (Olympic and Paralympic judo, plus wrestling and boccia), Olympic Hall 3 (taekwondo, fencing, sitting volleyball) and, Olympic Hall 4 (handball and goalball). Work on Olympic Halls 1, 2 and 3, plus the Tennis Centre, has already begun. Construction of the remaining venues will commence in 2015.

The developers of this enormous Olympics complex retained WSDG to design the acoustics, sound and video systems for the 3 Tennis Arenas + practice fields (10,000, 5,000 and 3,000 seats); the 18,000 seat Aquatic Arena + Warm Up Pool; and, Audio and Video Systems for the COT Arenas (16,000 seat Basketball, 10,000 seat Judo and 10,000 Wrestling arenas).

All the systems were designed to meet international security standards and, Olympics Committee requirements. WSDG began the process by performing sophisticated electroacoustic and modeling studies. The findings of these tests and procedures determined multiple solutions for each specific sound system. The primary goal was to insure the highest quality Speech Intelligibility and Sound Pressure levels. WSDG also designed large-scale Video Walls and Score Board screens, as well as Time Clock and Media Displays. Each unit was scaled to provide optimal visibility from every seat in the stands. Every Olympic Park stadium was created with 'future-proofing', for long post-competition service as Brazil's first Olympic Training Centre (OTC) and, South America's premium high performance athletic campus. The campus will include a research lab for nutrition, physiotherapy, sports and clinical medicine.



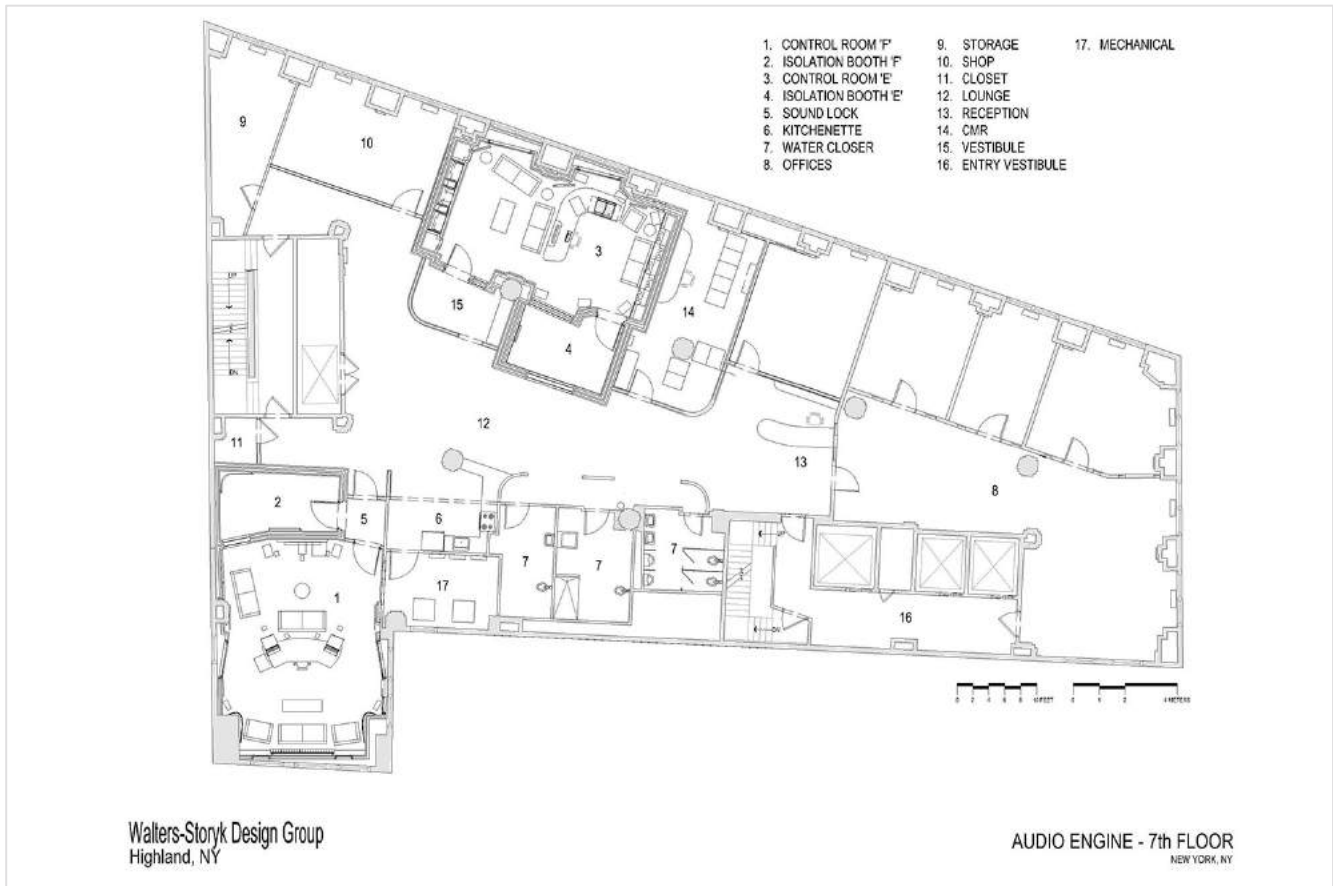
Rio 2016 – Barra Olympic Park - Rio de Janeiro, Brazil



audioEngine - New York, USA

Created in collaboration with studio architect and acoustician John Storyk of Walters-Storyk Design Group, audioEngine's Studio F (The Cabin) immerses clients in a luxuriously rustic 27 foot x 20 foot Adirondack-style log cabin environment. Features include rough hewn, highly polished floors, a hand-set stone fireplace (with a 65 inch Sharp LCD flat screen set in place of the traditional Yule log), hyper-elegant, custom furniture (including a 'tree branch' rocking chair), and a rear wall diffuser to enhance the pristine acoustics. A Digidesign Protools HD3 workstation running on an Apple MacPro; five Digidesign 192-1/O's, a Mojo SDI and a world-class B&W 5.1 monitoring system featuring 803D mains, SCMS surrounds and an ASW855 sub counterpoint the rural aesthetics for this decidedly 21st Century audioEngine.

Dedicated to 5.1 Dolby-approved theatrical sound mixes, the calming, spa-like contemporary luxury of The French Quarter, Hillary Kew Martell's chic, airy new 29 foot x 17 foot Studio E, houses a similarly powerful equipment package. Studio E features a Digidesign Protools HD3 workstation running on an Apple MacPro. To insure accuracy for demanding big screen theatrical advertising projects, aE partner/Director of Technical Operations Brian Wick stipulated a Martinsound Multimax EX system to control the commercial JBL theater spec main monitors and Bryston amplifiers. The surround arrays consist of three pairs of 8340's, driven by three BST amplifiers. Nearfield speakers are self-powered KRK V4's. In addition to three Sharp Aquos 32" LCD monitors, Studio E features a Sony VPLFE40 projector, a 122" diagonal Stewart screen. Motorized blackout shades control the natural light spilling in from the studio's 3 oversized windows to replicate the movie house environment. Soothing neutral colors, polished bleached-maple floors and eye-catching RPG diffuser provide the ideal finishing touches to the showplace room. Both Studios E and F include spacious 100+ square foot isolation booths outfitted with B&W WM2's and Bryston 2BST amplifiers.



audioEngine - New York, USA



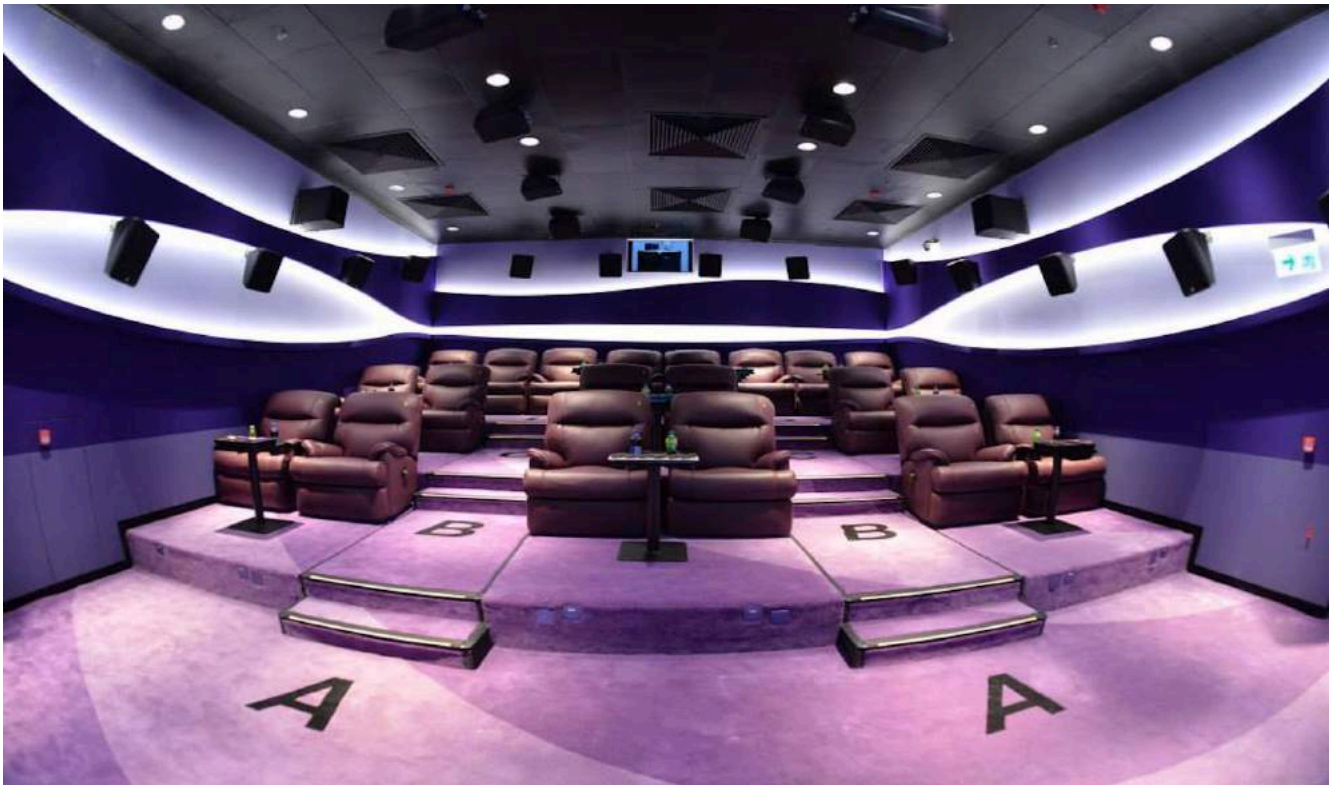
The Metroplex at KITEC – Hong Kong, China

Early in 2014 the Metroplex, a luxurious 9 screen multiplex cinema, opened in Hong Kong's iconic Kowloon Bay International Trade & Exhibition Centre. Adjacent to the widely popular Star Hall, scene of many major international concerts, The Metroplex is an investment property of Hopewell Holdings Limited. The complex reflects the Group's vast experience in operating large-scale venues, and it establishes a new level of lavish comfort for filmgoers. Their unique concept was to bridge the gap between film and music by creating cross-over events and festivals that would benefit from the venue's diverse dining, socializing, large and small theaters and intimate screening rooms.

House 1, the Metroplex's largest theater, can accommodate an audience of 430. The five other "public" theaters can seat groups ranging from 151 to 97 guests. Three plush VIP Screening Suites (#'s 7,8, 9) are each designed to host twenty guests. Theaters 1 & 3 and all three VIP Suites offer opulent reclining lounge chairs, state of the art lighting, exquisite interior designs and Dolby® Atmos™+ Dolby Surround 7.1 sound. The four other theaters are outfitted with Dolby Surround 7.1. The futuristic lobby and dining areas provide an unsurpassed ambience for elegant gatherings. WSDG provided a comprehensive review of the architectural master plan layouts and a detailed analysis of the acoustic package recommendations provided by a local consultant. Particular attention was addressed to issues of sound isolation and (RT60) internal room acoustics. The client's primary concern was to assure absolute sound isolation between the movie theaters and the large event hall located on the upper floor specifically with regard to NC and STC parameters.



The Metroplex at KITEC – Hong Kong, China



Morro do Chapeu Residence - Belo Horizonte, Brazil

The architectural and acoustical design devised by WSDG for the villa's home theater and other living spaces leaned on solution suggested by the firms' professional recording studio expertise. Inhibiting sound from leaking into or out of sensitive listening areas such as recording studio live and control rooms is a WSDG specialty. The enclosed pool and spa area, however presented more troubling waters. Particularly challenging was the need for the acoustical treatments to unobtrusively compliment the custom finishes.

WSDG also designed a spacious (but cozy) home theater, which integrates the highest levels of audio and video technology. Recording studio-level, acoustical wall and ceiling treatments were engaged to provide superb frequency and time response. Bedrooms and a home office also benefitted from acoustical ceiling clouds, designed to control the reverberation time over a broad sound spectrum enabling each room's individual 5.1 surround sound and HD video system to deliver maximum performance quality.

The swimming pool and spa area, however, presented the project's primary acoustic challenge. The large area includes a gym, Jacuzzi and wet bar, surrounded by three walls of double height windows and a movable glass sealing system to maintain interior warmth in the cool, mountain region evenings. Again, professional recording studio design techniques provided solutions. Each window, including an expansive skylight grid of 20 individual panels was fitted with Acoustical Clearsorber Foil. Imported from Germany, the innovative translucent plastic sheets absorb medium and high frequency reverberation to resolve sonic reflection issues. Clearsorber also serves as a full room UV ray filtering system! Full transparency insures unimpeded views and, conversations free of traditional pool house reverberation.



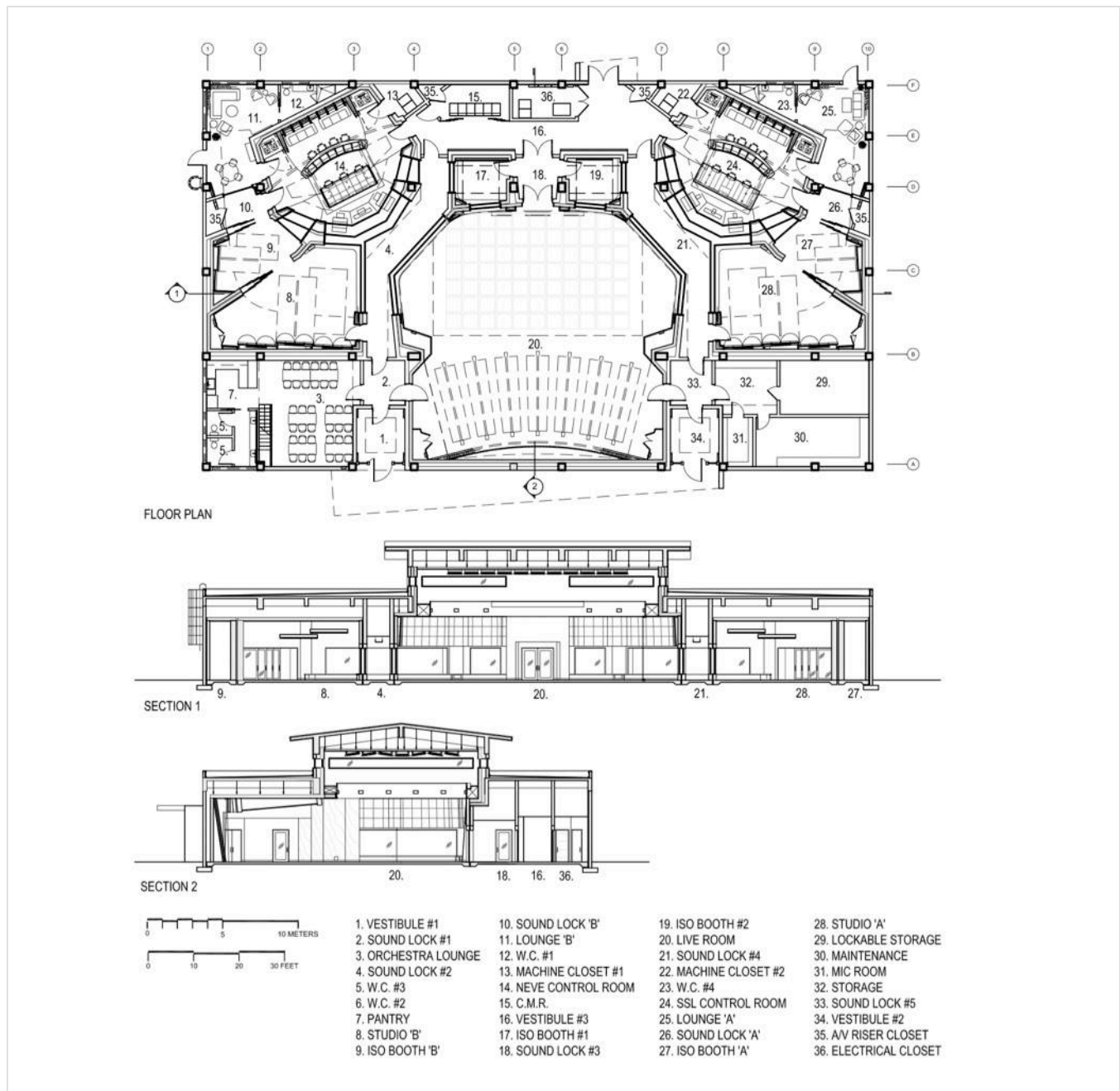
Morro do Chapéu Residence - Belo Horizonte, Brazil



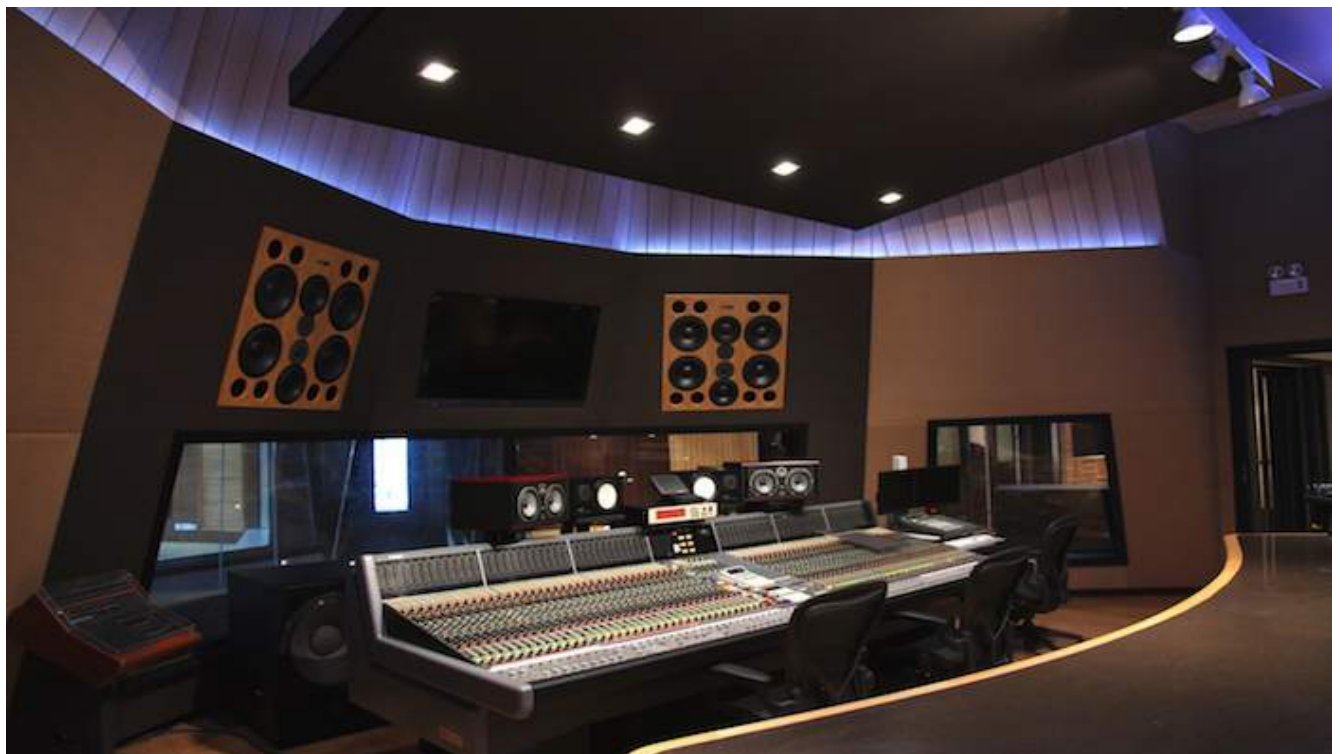
Village Studios - Guangzhou, China

One hour by train from Hong Kong, in the thriving metropolis of Guangzhou stands China's first true 'destination' recording studio. Technologically sophisticated and acoustically superb, Village Studios was conceived by international pop star Hins Cheung. The complex represents the future of China's recording industry, and a carefully considered investment in a superstar's long-term career plan.

Designed by Walters-Storyk Design Group, the project exemplifies the unique synthesis of several of its international offices. The project's efforts were initially led by WSDG's principal John Storyk, and required highly sophisticated analysis and auralization, developed by WSDG's European and Brazil branches. Village Studios combines world-class acoustics and aesthetics in an exotic, yet fully cosmopolitan setting.



Village Studios - Guangzhou, China



Professional References

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Representative Client List

Alicia Keys (Oven Studios), Long Island, NY
Allaire Studios, Woodstock, NY
Art Institutes United States
Atlantic Recording New York, NY
audioEngine New York, NY
Bearsville Recording Bearsville, NY
Berklee College of Music Boston, MA
Berklee College of Music - Valencia Valencia, Spain
Big Mo Mobile Recording Kensington, MD
Bob Marley Kingston, Jamaica
Bruce Springsteen (Thrill Hill Studios) United States
Camden Yard / Baltimore Orioles Baltimore, MD
Carter Burwell New York, NY
Celine Dion United States
Central Synagogue New York, NY
Church Le Noirmont Le Noirmont, Jura, Switzerland
Citicorp Credit Services Huntington, NY
Credit Suisse Zurich, Switzerland
Crossroads Tabernacle - Studio on the Hill Bronx, NY
Cuyahoga Community College - Center for Innovation in the Arts Cleveland, OH
Diante do Trono Belo Horizonte, Brazil
Duke Ellington High School Washington, DC
Eddie Kramer Rhinebeck, NY
EFE-X Bogota, Columbia
El Portefino Buenos Aires, Argentina
Electric Lady Studios New York, NY
Electronic Arts Vancouver, Canada
Elektra Entertainment New York, NY
Equiscosa Mexico City, Mexico
EUE Screen Gems (Rachel Ray) New York, NY
ESPN Bristol, CT
Fito Paez (Circo Beat Studios) Buenos Aires, Argentina
Flughafenkopf – Expansion of Zurich Airport Zurich, Switzerland
Food Network New York, NY
Full Sail Center for the Recording Arts Orlando, FL
Goesgen Nuclear Plant – Auditorium Däniken, Switzerland
Green Day – Jingtletown Recording Oakland, California
Hard Rock Cafe New York, NY
Hoffman LaRoche Basel, Switzerland
Howard Schwartz Recording New York, NY
Hunter College New York, NY
IMAX Buenos Aires, Argentina
IDZI Lab Mexico City, Mexico
Interlochen Public Radio Interlochen, MI
Interim Services Ft. Lauderdale, FL
Isaac Hayes Westchester, NY
J Records (Clive Davis) New York, NY
J.A. Castle Recording Utica, NY
James Earl Jones Theater - Poughkeepsie Day School Poughkeepsie, NY
Jay-Z (Roc the Mic Studios) New York, NY
Jazz at Lincoln Center New York, NY
Jim Cramer’s Real Money New York, NY
Jungle City Studios New York, NY
Kimmel Center Philadelphia, PA
La Rioja Theater La Rioja, Argentina
Le Poisson Rouge New York, NY
Maracana Stadium Rio de Janeiro
Manhattan School of Music New York, NY
Martin Scorsese Media Center Bronx, NY
Merriweather Pavilion Columbia, MD
Mineirao Stadium – FIFA Belo Horizonte, Brazil
Minnesota Public Radio Minneapolis, MN
MJI Broadcasting / Clear Channel New York, NY
MonkMusic Studios East Hampton, NY
Murray Arts Center Marietta, GA
MTV Latin America Buenos Aires, Argentina
National Council of Switzerland Bern, Switzerland
National Museum of the American Indian Washington, DC
New York University New York, NY
Northern Lights New York, NY
Novartis Basel, Switzerland
NYISO (New York Independent System Operator) Albany, NY
Peavey Electronics Meridian, MS
Philippe Moritz Zurich, Switzerland
Planet Hollywood Screening Room New York, NY

Proctor and Gamble Buenos Aires, Argentina
Record Plant Los Angeles, CA
Restaurant T Buenos Aires, Argentina
Richard Gere New York, NY
Robert Clivilles (Paradise Garage) Westchester, NY
SBK / EMI Records New York, NY
Skank Belo Horizonte, Brazil
SONY Corporation Teaneck, NJ
Spank! Music and Sound Design Chicago, IL
Stanwich Congregational Church Greenwich, CT
St. Gallen Train Station St. Gallen, Switzerland
Stevie Wonder (Wonderland) Los Angeles, CA
Sumitomo Boardroom New York, NY
Sunshine Mastering Vienna, Austria
Swiss Parliament Basel, Switzerland
Telefé Buenos Aires, Argentina
Teleproductions, Inc. Washington, DC

The Carpenters Church Port Harcourt, Nigeria
The Cosmopolitan Las Vegas, Nevada
The Standard Hotel New York, NY
Thirteen / WNET New York, NY
Union College Schenectady, NY
University of Colorado – ATLAS (Alliance for Technology,
Learning and Society) Boulder, CO
University of Michigan Ann Arbor, MI
Vassar Chapel Poughkeepsie, NY
Video Arts Studios Fargo, ND
Village Studios Guangzhou, China
Vocomotion Skokie, IL
Whitney Houston United States
WNYC Radio New York, NY
Woodrow Wilson Center Theater – Smithsonian
Washington, DC

Key Personnel



John Storyk, R.A.

Founder Partner / Director of Design

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John Storyk, registered architect and acoustician, is a founding partner of WSDG. He has provided facility planning, acoustical and systems design services for the professional audio-video production and performance community since the 1969 completion of Jimi Hendrix's Electric Lady Studios in New York City. John received his architectural studies from Princeton and Columbia Universities. As an independent designer, engineer and principal of WSDG, he has been responsible for over 3,000 world-class audio-video production facilities, including studios, radio stations, video suites, entertainment clubs and theaters. He is a member of the American Institute of Architects (AIA), Audio Engineering Society (AES) and Acoustical Society of America (ASA) and is a frequent contributor to AES convention papers and professional industry periodicals. John is a frequent lecturer at schools throughout the nation and has established courses in acoustics at Full Sail (Orlando), Ex'Pression Center for the Media Arts (San Francisco), while maintaining adjunct professor status in Acoustics and Studio Design at Berklee College of Music (Boston) and Stevens Institute (New Jersey).



Beth Walters

Founder Partner / Interiors

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Beth Walters-Storyk is a graduate of the Fashion Institute of Technology (New York) with two degrees, A.A.S. in Textile Design and a B.F.A. in Product Design. Her construction experience comes with having been a senior installation designer for the Gallery's exhibition and installation staff at the Fashion Institute for over 10 years. From 1982-1988, Beth also was the display and merchandising director for such noted home furnishing fabric firms as Boris Kroll Fabrics, Greff Fabrics and Design Tex Fabrics. Beth is a founding partner and principal of Walters-Storyk Design Group and leads the interior design services division.



Matthew Ballos

Partner / Director of Architectural Technology

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Mid-Hudson Valley, New York native Matt Ballos earned dual degrees in Architecture and Construction Management. A background in civil engineering and a lifelong love of construction and design has enabled Matt to quickly become a valuable member of WSDG's design and production team, currently as a project designer and manager. Matt's love of design extends from his drawing skills to his personal workshop where he spends his free time building furniture and fabricating functional pieces of art. He believes his experiences at WSDG coupled with having grown up on construction sites provides him with a functional knowledge of what can and can't be built, and enables him to apply his design talents in creating uniquely useful, beautiful and acoustically accurate spaces. WSDG is proud of Matt's continued affiliation with the US Air Force Reserve as an engineering specialist.



Ian D. Bromilow

Director of Acoustics

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Ian graduated with a Bachelor of Engineering with Honors in Electroacoustics from the University of Salford, UK in 1992. He is a member of the Institute of Acoustics in the UK and AES. Before moving to New York, he featured as a key player in the acoustical design of buildings in the UK and Europe for over 20 years. Since arriving in the US he has worked with high-profile clients on premier projects to achieve the ultimate acoustical user experience. He is the advocate for a better-sounding world and is a thought leader for innovative acoustical design solutions. Ian enjoys doing what others think cannot be done; his efficacy in the application of detailed constructional techniques and emerging technologies is his specialty whilst ensuring solutions remain visually respectful of the architectural agenda.



Silvia Campos Ulloa Molho

Partner / Art Director

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Silvia Campos Molho has been involved in the video industry since 1987 as an independent filmmaker in Lima. Her degree in Fine Arts comes from the University of Peru in Lima and has continued with a degree in Anthropology from the University of Buenos Aires. As a producer, Silvia has developed several cinematographic projects, documentaries, commercials and corporate marketing worldwide. Her areas of expertise include the development of corporate images with the wide use of digital technological combined with traditional film and video. In 1998, together with AVH Inc. in Argentina, she was responsible for the making of the first DVD format in South America. She is an integral part of the design, communication and marketing divisions for WSDG, while acting as co-founder and partner of WSDG-Latin.



Victor Cañellas (Weike)

Representative

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Víctor Cañellas (Weike) - Acousmatic Sinologist has been a successful acoustician/sound researcher in China since 2003. His expertise in developing acoustic interfaces for visual arts in performance venues has contributed to such demanding assignments as the Park19 and LOFT345 clubs in Guangzhou and for the popular 2007 La Fura dels Baus 'Imperium' premiere in Beijing. His expertise in acoustic treatments was enriched by serving as a representative for Jocavi Acoustic Panels and Soundbox Acoustic Tech fixed architectural acoustic systems. Victor studied Social Science at Universitat de Barcelona, Asian Studies at Universitat Autònoma de Barcelona Center of International and Intercultural Studies, and attended Chinese Language Studies in Sun Yat Sen University in Guangzhou. His wide-knowledge of 'Eastern thought and logics' provide a solid foundation for him in his new role as a WSDG representative.



Renato Cipriano

Partner / Director of Design

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Renato Cipriano graduated as a Civil Engineer from the University of FUMEC in Belo Horizonte, Brazil in 1994 and is also a graduate from both The Recording Workshop, Ohio (1992) and Full Sail Center for the Recording Arts, Orlando, USA (1999—also one of John's students). In early 2000, Renato opened the WSDG Brazil office in Belo Horizonte, Brazil and is responsible for the acoustical and architectural supervision on all projects in Brazil. Additionally, Renato has led the design efforts of many of our international projects contributing to creative acoustic interiors and integrated lighting design as well as setup and calibration of audio systems. As an audio engineer, he has worked on various projects including the most recent album of the most popular rock band in Brazil – Skank. Renato also teaches acoustics in the top audio school in the country, IAV in São Paulo. In 2004 Renato received two Grammy nominations and won the Latin Grammy for "Best Brazilian Rock Album".



Nancy Flannery

Partner / Chief Financial Officer

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The first and last person to call with any production, billing or scheduling issue, CFO Nancy Flannery has spent the past twenty-five years honing her skills as the consummate WSDG client liaison. A multi-task whiz, Nancy assists clients in virtually every phase of their projects. From negotiating favorable contracts with suppliers to procuring special materials, or resolving complex issues in a timely manner, she is the ultimate client advocate and problem solver. In Nancy's dictionary the definition of CFO is "headache relief."



Gabriel Hauser

Partner / Director of Acoustics

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Gabriel Hauser graduated with a degree in electrical engineering from the Swiss Federal Institute of Technology, Zurich, in 2000. Analog and digital signal processing and acoustics were his primary focus. His Thesis was titled "Reduction of Nonlinear Distortion of Loudspeakers employing Volterra Filters" (at Studer Professional AG, Switzerland). After joining the WSDG New York office, Gabriel returned to Switzerland to become a founding partner at WSDG Europe. His specialties include Acoustical Simulation and Measurement, complex Acoustical Analysis and Methodology as well as Architectural Acoustics. During his studies Gabriel was a founding member of Abbaxx Soundsystems Ltd., whose principal field of work is sound reinforcement and loudspeaker technology. While with Abbaxx, he designed and developed sound systems for concert use, churches and installations. He writes articles for audio magazines and continues to be a performing musician.



Romina Larregina

Partner / Director of Production

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Romina Larregina graduated from the University of Palermo, Buenos Aires, with a degree in Architecture. Upon graduating, Romina took her skills to an engineering office, while teaching English and helping with the set up of trade shows. She apprenticed at WSDG – Latin for several years before moving to the United States in 1999, to become an integral member and now partner at WSDG (New York). Her multi-lingual skills in English, Spanish and Portuguese have been instrumental in leading numerous international projects. Romina is the Latin liaison, as well as project management and production coordinator for the New York office. She loves to travel and enjoys the day-to-day client interaction.



Alan Machado

Project Manager

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Alan graduated as an Architect and Urban Planner from FUMEC University, Belo Horizonte in 2013. Since then he has worked in many different areas of architecture, going from house and building modeling and executive project to markets and shopping malls. Alan has a deep connection with music, he is a passionate listener and has been playing the electric guitar as a hobby since the early 2000s. Working at WSDG since 2016, he discovered a new way to combine his passion for music and architecture and work with them for a common objective.



Breno Magalhães

Architect / Project Manager

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Breno graduated as an Architect and Urban Planner from Federal University of Minas Gerais (UFMG) in 2010 and as a Product Designer from State University of Minas Gerais (UEMG) in 2006, both in Belo Horizonte. His interest in music and acoustics grew during his university period. Breno enjoys playing the guitar and he turned this hobby into his Product Design final graduation project, by developing an electric guitar with an innovative pickup swapping system for studio applications. The same thing happened in his Architect and Urban Planner graduation project when he designed a new music Arena for Belo Horizonte. At this point he was already a WSDG member. Also as a Product Design student, Breno took part in several research groups related to furniture design focused on manufacture optimization, ergonomics and sustainability. He was a partner in a design office with the same approach. Breno works as a Project Manager and Designer at WSDG Brasil office since 2008.



Robert Margouleff

Project Engineer

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Grammy-winning engineer/producer/studio-owner Robert Margouleff brings 40+ years of hands on experience in his role with WSDG. Beyond his long-time collaboration with Stevie Wonder, capped by a Best Engineered Album Grammy for *Innervisions* (shared with Malcolm Cecil,) Margouleff's producer/ engineer credits include work with Devo, Billy Preston, Depeche Mode, Jeff Beck, The Doobie Brothers, Quincy Jones, and many other stellar artists. After building his Hollywood-based Mi Casa Multimedia Studios, Margouleff became a leader in surround audio for home theater, and provided 5.1 and 7.1 mixing and mastering for DVD and Blu-ray releases and restorations for such films as: *The Sound Of Music*, six *James Bond* features, *Rush Hour* and the complete *Lord Of The Rings* cycle. Margouleff will be involved in all aspects of WSDG's west coast projects. He will consult with new clients on details ranging from site selection to design, construction, technology, acoustic treatments and systems integration.



Aditya Modi

Representative

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Born in a recording studio in a quaint studio apartment in Chennai, Aditya has flair and passion for anything audio. After school, he used to sit in on recordings conducted by his father, Vijay Modi, for artists such as AR Rahman. Graduating Full Sail University with a Recording Arts Degree, Aditya moved to LA as a practicing DJ. India calling, Aditya moved to Mumbai where he assisted Sound Engineering legend Daman Sood as well as Avinash Oak, Jagjit Singh, Lata Mangeshkar, Asha Bhosale, Pandit Jasraj, Pankaj Udhas, Naushaad Ali, Abida Parveen and almost every great in the Indian music industry. He has designed for over 250 facilities across India. Aditya formed Modi Digital to offer premium recording studio design and undertake complete audio install projects, pro audio equipment distribution, technical designing, acoustic designing and after sales support to the audio industry.



Sergio Molho

Partner / Director of International Development

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Sergio Molho is a founding partner of WSDG Latin America. He provides the technical, acoustical and architectural supervision as well as project management for all WSDG Latin America projects. Sergio has worked in the audio and video industry since 1982, beginning as an engineer, composer and producer for international productions for recording labels such as Sony and Warner. As an accomplished keyboard player and vocalist, he was the leader of CASH, a successful funk band that had its fame in Argentina in the 1980's. He is a member of the Argentinean Acoustic Chamber (AAC) and Audio Engineering Society (AES) as well as other professional organizations. He is a frequent contributor to technical workshops expanding the knowledge and education of acoustics and electro-acoustics in their relationship to architecture. In 2005, Sergio became the CEO and principal of WSDG Latin America. In 2007 he opened the WSDG Mexico Office, and in 2009 the WSDG Miami office. As the Director of WSDG's International Relations, he contributes to the promotion and acquisition of new business relations worldwide.



Joshua Morris

Partner / Director of Design

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Joshua Morris graduated from the University of North Carolina in Charlotte with two Degrees, a Bachelor of Arts in Architecture and a Bachelor of Architecture. A love of music has led him to seek a combination of architecture and acoustics, beginning with his thesis on acoustics. Additionally, Josh has been educated in the Suzuki method for violin since age three, making acoustic design a natural choice for a career path. Joshua joined the WSDG team in January of 2005, moving from North Carolina to New York, and quickly settled into a key role as a project manager, designer and now partner. Since then he has managed dozens of projects from China to the United States to Germany, and continues to add more skills to his design vocabulary each day, while refining his already well developed practice as a luthier.



Dirk Noy

Partner / Director of Applied Science and Engineering

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Dirk Noy, M.Sc. Physics, has a Diploma in Experimental Solid State Physics from the University of Basel, Switzerland and graduated from Full Sail Center for the Recording Arts, Orlando, USA, where he was one of John Storyk's students. After joining WSDG in early 1997 Dirk now heads the WSDG Europe office in Basel, Switzerland. Dirk has extensive experience in applied mathematics, acoustical measurement and calculation techniques, audio engineering, systems design and all facets of Information Technologies. His language abilities include German, Dutch, French and English. As a publishing member of the Audio Engineering Society (AES) and the Swiss Acoustical Society (SGA) he is a frequent lecturer at trade conventions, recording colleges, as well as architectural education institutions.



Kevin Peterson

Project Engineer

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Kevin has always been a music lover and musician. While in high school, he performed in several bands, and developed a 'gear head' aptitude for setting up recording equipment, microphones, and speakers. That early experience inspired him to study audio in college. After graduating as Class Valedictorian from Full Sail University with a B.S. in Show Production, Kevin's interest in audio and acoustic measurement lead him to a career with WSDG. He welcomes the opportunity to collaborate with WSDG's international team and enjoys hands-on involvement with unique, creative projects. An avid year-round camper / outdoorsman / and Eagle Scout, Kevin claims to enjoy the cold and snow of the Hudson Valley winters much more than his co-workers.



Federico Petrone

Senior Systems Designer

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Federico obtained a Contemporary Music Degree and an Audiovisual Communications Degree in Argentina. He started his career as the music director for Indie Musical Theater groups and the FOH sound engineer for a major theater in Buenos Aires. Federico then went on to get a lead audio position at Disney Cruise Lines, in charge of all audio systems and responsible for the FOH operation in the main theater of one of their cruise ships. In 2007 he joined WSDG in Latin America in his current position as Audiovisual Systems Designer and Chief Installer. He has worked on numerous projects worldwide integrating sound, video, lighting and automation for different applications, from small project studios to large live venues. He also leads the systems install team for all types of audiovisual installations. Federico is an accomplished video game music composer having worked in more than 100 titles for different game platforms.



Frank Reder

Senior Associate

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Frank is a musician and a designer in an acoustician's body. He received his education at the University of Hartford where he studied acoustical engineering and music, with a concentration in jazz guitar. Since then, he has been working on notable projects both in NYC and internationally, where his focus is on creating spaces which sound beautiful while being flexible and functional. Acoustics has long been thought of as a black art but Frank sees himself as a communicator who translates acoustic concepts to real experiences so designers can confidently bring their design to life. His passion lies in working with other experts on interesting projects which don't have obvious solutions. Never satisfied with previous work, Frank always wants to design it 'better than last time.' He loves sitting at the table with passionate designers, working through sketching, to create the best possible spaces.



Bob Skye

Project Engineer

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Bob is a leader in electro/acoustic design, recording studio construction and, a Grammy-winning engineer with Gold and Platinum credits, has joined the Walters-Storyk Design Group. As WSDG's west coast rep and project engineer, Skye will shoulder a host of responsibilities ranging from new client development and overall business management to hands-on project design and construction supervision. He is a member of Audio Engineering Society, American College of Forensic Examiners and American Board of Recorded Evidence.



Andrew Swerdlow

Acoustic Engineer

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Andy earned his B.S. in Physics and developed computer modeling and laboratory measurement/data capture skills from UMBC (Baltimore). His first job was in analytical chemistry for a Maryland based pharmaceutical company. Once he'd had enough "Big Pharma," he switched career paths and moved to NYC to become a double threat musician/audio engineer (drummer and mastering). In addition to enhancing his listening and audio production skills, Andy acquired hands-on construction credentials while helping build a new location for Studio G in Brooklyn. That project rebooted his interest in electroacoustics, architectural acoustics, and acoustic prediction, measurement and modeling. In 2015, he joined WSDG as an intern. Three months later he was an acoustic engineer, applying his modeling and measurement skills, making recommendations for a variety of acoustic projects, and tuning audio systems.



Mariana E. Varon

Project Manager

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Mariana studied architecture at the UBA (Universidad Nacional de Buenos Aires / University of Buenos Aires) and graduated in 1995. Along with her MBA in Architectural Design at FADU (UBA) she continued her architecture studies at Universidad Torcuato Di Tella. From 2004 to 2011 she worked for WSDG Latin, being the project manager of many projects and in charge of the production of the construction documentation. In 2011, she created her own Architectural Firm: Mvaron Arq&AS., working on Steel Framing projects and dry-wall construction. Mariana has been involved as a project manager with several architectural firms, including Clorindo Testa, Roberto Frangella and Justo Solsona Arquitectos. Her work led her to win several awards and mentions during her career.



Marc Viadiu

Project Engineer

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Marc studied Technical Engineering in Sound and Image and Higher Engineering in Electronics at the University Ramon Llull in Barcelona, Spain. After graduation, Marc worked in an industrial acoustics company in Barcelona. Later he started his own company of acoustic engineering and distribution of acoustic and audio products. At the beginning of 2009, Marc undertook a six months internship at the WSDG New York office preparing drawings, taking acoustical measurements and performing room acoustical calculations. Upon returning to Spain in 2010, he started a new company of designing acoustical products and opening the new WSDG office in Spain.



Javier Vyero Villaroel

Representative

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Born in Santiago, Chile, “Vyero” is a successful record producer and songwriter. After graduating from Universidad Mayor, (Chile) with a degree in Social Communications and Advertising and a specialization in A/V media, Vyero moved to Mexico in 2001 to kick off his music career. Signed to Universal Music Mexico in 2004, he recorded a compilation album entitled “Autores del Nuevo Milenio”. Vyero’s subsequent album releases include: “Llevame” (2007), “Electro” (2012), and “Cover Sessions” (2013). He is currently preparing a new EP of original compositions entitled “Acustico”, for release in late 2015. He has also served as a producer for a number of film and album recording sessions by various artists. In 2015 Vyero joined [Audio Gate International](#), a leading Mexico City-based equipment sales and consulting firm. Javier Villarroel has now been named exclusive WSDG representative in Mexico, and will focus his energies on developing client projects in the high-end recording, video production, performance venue, corporate and educational sectors.



Su Weilie

Representative

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Su Weilie – Architect/Interior Designer/Representative is a Guangzhou native who studied Construction Engineering at Hunan Institute of Technology and Architecture, and City Planning at Wuhan University of Technology. In 1990, he joined the Panyu Bridge Group Company and participated in the design of Nansha Port and Nansha Tian Hou Temple restoration project. In 1994, he founded Guangzhou Red Leaves Decoration Project Co. Ltd., and participated in assignments for the Guangzhou Olympic Garden. In 2004 he moved to the Conghua Mountains for self-cultivation and a contemplative education, and to research Agrarianism and the ancient practice of Daoism. Returning to Guangzhou, he participated in the Guangzhou Natural Park development as well construction projects focused on Luxury Hotels, Office Buildings and Refurbishing Historical Buildings.





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