Project Manual for
Wayne State University
Gateway Theater Complex
Detroit, Michigan
WSU Proj. No.  189-178578
HAA Proj. No.  2016034.00

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Detroit, MI 48202

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Detroit, MI  48226

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West Bloomfield, MI 48322

Civil Engineer
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Rochester Hills, MI 48307

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New York, NY 10018

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Norwalk, CT 06854

Issued for 100% DD – VALADE CENTER
06 FEBRUARY 2019
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TABLE OF CONTENTS

**PROJECT MANUAL PDF:**

SPECIFICATION DIRECTORY

AUDIO / VIDEO SYSTEMS DESIGN NARRATIVE

ADDENDUM LIST *(added 5/30/2019)*

ADDENDUM SKETCHES *(added 5/30/2019)*

**DRAWINGS PDF:**

COVERSHEET AND DRAWING INDEX

LANDSCAPE DRAWINGS

ARCHITECTURAL DRAWINGS

STRUCTURAL DRAWINGS

MECHANICAL DRAWINGS

FIRE PROTECTION DRAWINGS

PLUMBING DRAWINGS

ELECTRICAL DRAWINGS

SECURITY DRAWINGS

AUDIO / VISUAL DRAWINGS

THEATRICAL DRAWINGS
TABLE OF CONTENTS

Volume 1

DIVISION 00 PROCUREMENT AND CONTRACTING REQUIREMENTS
000110 Table of Contents ........................................................................................................... Updated 02/06

DIVISION 01 GENERAL REQUIREMENTS
013591 Historic Treatment Procedures ..................................................................................... Issued 02/06
014339 Mockups
017900 Demonstration and Training
018198 Facility Acoustic Performance Requirements

DIVISION 02 EXISTING CONDITIONS
024116 Structure Demolition ...................................................................................................... Issued 02/06
024119 Selective Demolition ...................................................................................................... Issued 02/06
024296 Historic Removal & Dismantling ................................................................................... Issued 02/06

DIVISION 03 CONCRETE
033000 Cast-In-Place Concrete
033544 Polished Concrete Finish
034500 Architectural Precast Concrete

DIVISION 04 MASONRY
040310 Historic Masonry Cleaning .......................................................................................... Issued 02/06
040322 Historic Brick Unit Masonry Repair .............................................................................. Issued 02/06
040323 Historic Brick Unit Masonry Repointing ..................................................................... Issued 02/06
040342 Historic Stone Masonry Repair ..................................................................................... Issued 02/06
040343 Historic Stone Masonry Repointing ............................................................................. Issued 02/06
040345 Historic Stone Consolidation Treatment ....................................................................... Issued 02/06
042000 Unit Masonry
042200 Concrete Unit Masonry

DIVISION 05 METALS
050371 Historic Decorative Metal Cleaning ............................................................................. Issued 02/06
050372 Historic Decorative Metal Repair ................................................................................ Issued 02/06
051200 Structural Steel Framing
052100 Steel Joist Framing
053100 Steel Decking
054000 Cold-Formed Metal Framing
054300 Metal Support Assemblies
055000 Metal Fabrications
055005 Miscellaneous Metal Fabrications
055100 Metal Stairs
055200 Metal Railings
057000 Ornamental Metal
057200 Ornamental Railings

DIVISION 06 WOOD, PLASTICS, AND COMPOSITES
060312 Historic Wood Repair ................................................................................................... Issued 02/06
061000 Rough Carpentry
064000 Architectural Woodwork
DIVISION 07 THERMAL AND MOISTURE PROTECTION
071413 Hot Fluid-Applied Rubberized Asphalt Waterproofing
071700 Bentonite Waterproofing
072100 Thermal Insulation
072700 Air & Moisture Barrier
074200 Metal Panels
075400 Thermoplastic Polyolefin (TPO) Roofing
076200 Sheet Metal & Flashing
077233 Roof Hatches
077236 Smoke Vents
078100 Applied Fireproofing
078400 Penetration Firestopping
078443 Joint Firestopping
079100 Preformed Joint Seals
079200 Joint Sealants
079513 Expansion Joint Cover Assemblies

DIVISION 08 OPENINGS
080314 Historic Treatment of Wood Doors .................................................................Issued 02/06
080352 Historic Treatment of Wood Windows ..............................................................Issued 02/06
081113 Hollow Metal Doors & Frames
081400 Wood Doors
081433 Stile & Rail Wood Doors ............................................................................Issued 02/06
083100 Access Doors & Panels
083323 Overhead Coiling Doors
083473 Sound Control Door Assemblies
083474 Sliding Sound Control Door Assemblies
084400 Aluminum Curtain Walls, Storefronts & Entrances
084520 Translucent Fiberglass Panel Assemblies
085673 Sound Control Window Units
087100 Door Hardware
087900 Door Operator Switch Bollards
088000 Glazing
089100 Louvers

DIVISION 09 FINISHES
090190 Maintenance Repainting ..............................................................................Issued 02/06
090320 Historic Treatment of Plaster .........................................................................Issued 02/06
090391 Historic Treatment of Plain Painting ..............................................................Issued 02/06
092200 Non-Structural Metal Framing
092300 Gypsum Plastering .......................................................................................Issued 02/06
092900 Gypsum Board
093000 Tiling
095100 Acoustical Ceilings
096001 Flooring Transition Strips
096400 Wood Flooring
096500 Resilient Flooring
096623 Resinous Matrix Terrazzo Flooring ................................................................Issued 02/06
096723 Resinous Flooring
096800 Carpeting
097200 Wall Coverings
097700 Fiberglass Reinforced Panels
098000 Acoustic Treatments
099000 Painting
099600 High-Performance Coatings
<table>
<thead>
<tr>
<th>DIVISION 10 SPECIALTIES</th>
</tr>
</thead>
<tbody>
<tr>
<td>101100</td>
</tr>
<tr>
<td>102100</td>
</tr>
<tr>
<td>102600</td>
</tr>
<tr>
<td>102813</td>
</tr>
<tr>
<td>104400</td>
</tr>
<tr>
<td>105113</td>
</tr>
<tr>
<td>107313</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DIVISION 11 EQUIPMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>112326</td>
</tr>
<tr>
<td>115700</td>
</tr>
<tr>
<td>116123</td>
</tr>
<tr>
<td>116133</td>
</tr>
<tr>
<td>116135</td>
</tr>
<tr>
<td>116143</td>
</tr>
<tr>
<td>116163</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DIVISION 12 FURNISHINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>122413</td>
</tr>
<tr>
<td>123551</td>
</tr>
<tr>
<td>124800</td>
</tr>
<tr>
<td>126100</td>
</tr>
<tr>
<td>126600</td>
</tr>
<tr>
<td>127100</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DIVISION 13 SPECIAL CONSTRUCTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>134833</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DIVISION 14 CONVEYING EQUIPMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>142400</td>
</tr>
<tr>
<td>144200</td>
</tr>
<tr>
<td>DIVISION 21 FIRE SUPPRESSION</td>
</tr>
<tr>
<td>-----------------------------</td>
</tr>
<tr>
<td>210500  Common Work Results for Fire Suppression</td>
</tr>
<tr>
<td>210502  Basic Fire Protection Requirements</td>
</tr>
<tr>
<td>210517  Sleeves and Sleeve Seals for Fire-Suppression Piping</td>
</tr>
<tr>
<td>210518  Escutcheons for Fire-Suppression Piping</td>
</tr>
<tr>
<td>210523  General-Duty Valves for Fire-Suppression Piping</td>
</tr>
<tr>
<td>210529  Hangers and Supports for Fire Suppression Piping and Equipment</td>
</tr>
<tr>
<td>210553  Identification for Fire Suppression Piping and Equipment</td>
</tr>
<tr>
<td>211119  Fire Department Connections</td>
</tr>
<tr>
<td>211200  Fire Suppression Standpipes</td>
</tr>
<tr>
<td>211313  Wet-Pipe Sprinkler Systems</td>
</tr>
<tr>
<td>213113  Electric-Drive, Centrifugal Fire Pumps</td>
</tr>
<tr>
<td>213400  Pressure-Maintenance Pumps</td>
</tr>
<tr>
<td>213900  Controllers For Fire-Pump Drivers</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DIVISION 22 PLUMBING</th>
</tr>
</thead>
<tbody>
<tr>
<td>220500  Common Work Results for Plumbing</td>
</tr>
<tr>
<td>220502  Basic Plumbing Requirements</td>
</tr>
<tr>
<td>220513  Common Motor Requirements for Plumbing Equipment</td>
</tr>
<tr>
<td>220517  Sleeves and Sleeve Seals for Plumbing Piping</td>
</tr>
<tr>
<td>220518  Escutcheons for Plumbing Piping</td>
</tr>
<tr>
<td>220519  Meters and Gages for Plumbing Piping</td>
</tr>
<tr>
<td>220523.12 Ball Valves for Plumbing Piping</td>
</tr>
<tr>
<td>220523.13 Butterfly Valves for Plumbing Piping</td>
</tr>
<tr>
<td>220523.14 Check Valves for Plumbing Piping</td>
</tr>
<tr>
<td>220529  Hangers and Supports for Plumbing Piping and Equipment</td>
</tr>
<tr>
<td>220548  Noise and Vibration Control for Plumbing Systems</td>
</tr>
<tr>
<td>220549  Noise Control Accessories for Plumbing Systems</td>
</tr>
<tr>
<td>220553  Identification for Plumbing Piping and Equipment</td>
</tr>
<tr>
<td>220719  Plumbing Piping Insulation</td>
</tr>
<tr>
<td>221116  Domestic Water Piping</td>
</tr>
<tr>
<td>221123  Domestic Water Pumps</td>
</tr>
<tr>
<td>221316  Sanitary Waste and Vent Piping</td>
</tr>
<tr>
<td>221319  Sanitary Waste Piping Specialties</td>
</tr>
<tr>
<td>221413  Facility Storm Drainage Piping</td>
</tr>
<tr>
<td>221423  Storm Drainage Piping Specialties</td>
</tr>
<tr>
<td>221429  Sump Pumps</td>
</tr>
<tr>
<td>221513  General Service Compressed-Air Piping</td>
</tr>
<tr>
<td>221519  General-Service Packaged Air Compressors and Receivers</td>
</tr>
<tr>
<td>223400  Fuel-Fired, Domestic-Water Heaters</td>
</tr>
<tr>
<td>224000  Plumbing Fixtures</td>
</tr>
<tr>
<td>224500  Emergency Plumbing Fixtures</td>
</tr>
<tr>
<td>224716  Pressure Water Coolers</td>
</tr>
</tbody>
</table>
DIVISION 23 HEATING, VENTILATING, AND AIR-CONDITIONING (HVAC)
230500 Common Work Results For HVAC
230502 Basic HVAC Requirements
230513 Common Motor Requirements For HVAC Equipment
230514 Variable-Frequency Motor Controllers
230516 Expansion Fittings and Loops for HVAC Piping
230517 Sleeves and Sleeve Seals for HVAC Piping
220518 Escutcheons for HVAC Piping
230519 Meters and Gages for HVAC Piping
230523 General Duty Valves For HVAC Piping
230529 Hangers and Supports for HVAC Piping and Equipment
230548 Noise and Vibration Control for HVAC Systems
230553 Identification for HVAC Piping and Equipment
230593 Testing, Adjusting, and Balancing for HVAC
230700 HVAC Insulation - ASHRAE
230900 Instrumentation and Controls For HVAC
231123 Facility Natural-Gas Piping
232113 Hydronic Piping
232116 Hydronic Piping Specialties
232123 Hydronic Pumps
232300 Refrigerant Piping
232500 HVAC Water Treatment
233113 Metal Ducts
233119 HVAC Casings and Acoustical Housings
233300 Air Duct Accessories
233305 Noise Control Accessories for Ductwork
233416 Centrifugal HVAC Fans
233423 HVAC Power Ventilators
233600 Air Terminal Units
233713 Diffusers, Registers, and Grilles
234100 Particulate Air Filtration
235216 Condensing Boilers
236423 Screw Water Chillers
237316 Air-Handling Units
238123 Computer-Room-Air-Conditioning Units
238126 Split-System Air-Conditioning Units
238216 Air Coils
238236 Finned-Tube Radiation Heaters
238239.13 Cabinet Unit Heaters
238239.16 Propeller Unit Heaters
239000 Dust Collectors
### Volume 3

#### DIVISION 26 ELECTRICAL
- 260500 Common Work Results for Electrical
- 260519 Low-Voltage Electrical Power Conductors and Cables
- 260523 Control-Voltage Electrical Power Cables
- 260526 Grounding and Bonding for Electrical Systems
- 260529 Hangers and Supports for Electrical Systems
- 260533 Raceways and Boxes for Electrical Systems
- 260543 Underground Ducts and Raceways for Electrical Systems
- 260553 Identification for Electrical Systems
- 260572 Short-Circuit Studies
- 260573 Coordination Studies
- 260574 Arc-Flash Hazard Analysis
- 260913 Electrical Power Monitoring and Control
- 260923 Lighting Control Devices
- 260936 Modular Dimming Controls
- 260943.03 Distributed Digital Lighting Controls
- 261116.12 Secondary Unit Substations with Switchboard Secondary
- 262213 Low-Voltage Distribution Transformers
- 262413 Switchboards
- 262416 Panelboards
- 262726 Wiring Devices
- 262816 Enclosed Switches and Circuit Breakers
- 263213.16 Gaseous Emergency Engine Generators
- 263214 Generator Connection Cabinet
- 263600 Transfer Switches
- 265119 LED Interior Lighting
- 265201 Interior Luminaires
- 265561 Theatrical System Electrical Requirements
- 265601 Exterior Luminaires

#### DIVISION 27 COMMUNICATIONS
- 270513 Communications Services
- 270536 Cable Trays for Communications Systems
- 270536.13 Non-Continuous Cable Supports for Communications Systems
- 271000 Structured Cabling
- 274100 Performance AV Systems

#### DIVISION 28 ELECTRONIC SAFETY AND SECURITY
- 280528 Pathways for Electronic Safety and Security
- 283111 Digital, Addressable Fire-Alarm System
**DIVISION 31 EARTHWORK**
- 311000 Site Clearing
- 311012 Fine Grading
- 311018 Soil Erosion Control
- 312000 Earth Moving

**DIVISION 32 EXTERIOR IMPROVEMENTS**
- 321216 Hot Mix Asphalt Concrete Paving
- 321313 Cement Concrete Pavements, Curbs & Gutters
- 321316 Decorative Concrete Paving
- 321373 Concrete Paving Joint Sealants
- 323119 Decorative Metal Fences & Gates
- 323300 Site Furnishings
- 328400 Planting Irrigation
- 329113 Soil Preparation
- 329200 Turf & Grasses
- 329300 Plants
- 329600 Transplanting

**DIVISION 33 UTILITIES**
- 331100 Water Main
- 333100 Facility Sanitary Sewers
- 334100 Storm Sewers, Underdrains & Drainage Structures

**END OF SECTION**
INTRODUCTION

This narrative establishes design criteria for the AV systems for the Wayne State University Gateway Theater Complex Valade Jazz Center. Systems criteria are addressed for the performance and support spaces, including the audience chamber, lobby, and backstage support spaces.

GRETCHE VALADE JAZZ CENTER

Jazz Center Audience Chamber

Audio: The audio system is designed to meet the expectations of professional jazz ensembles and therefore must meet a higher standard and also be rider-friendly to support guest artists properly.

Main loudspeakers are on the left and right sides, toward the front edge of the stage to provide the majority of sound to the audience. Each location may be a point source loudspeaker or small line array, where all cabinets are of the same type from the same manufacturer to facilitate creating a balanced audio image. Meyer Sound products are a standard in the jazz world in particular and are likely the best choice for this venue.

Left and right subwoofers incorporated in the arrays extend low-frequency content for full range audio reinforcement. Small loudspeakers along the stage edge provide imaging and intelligibility in the first few rows of seating and ensure uniform coverage at the margins of the coverage of the main loudspeakers. Depending on architectural constraints, these may be permanent or portable.

Connections for monitor loudspeakers are provided around the stage. These monitors, along with in-ear personal monitors provide fold-back to the performers so they can better hear themselves and others, which is critical to good performances.

Connections for microphones and other input devices are provided around the house and stage. Connections for digital stage boxes will also be provided around the stage.

The house mix position hosts live mixing and playback equipment, including:

- Recording and playback is on a CD/SD card recorder as well as to multitrack capable computer recording systems, and as feeds to the existing recording studio.
- Patch-bays used to interconnect the various input and output locations around the theater to the mix position, the video recording booth, and to other main system racks.

An assistive listening system will be provided to meet ADA compliance. Coverage will also be available in the lobby.

Video: Video systems include archival recording, live streaming capability, and professional broadcast infrastructure.

A permanent high-resolution camera with remote pan/tilt/zoom (“PTZ”) capability, on centerline, is provided to give a static full stage feed. Infrastructure will be provided for other PTZ and handheld cameras to be used from various locations and angles to be used for streaming, recording for archival purposes or post production editing. A lower-resolution camera capable of infrared imaging is also provided to allow monitoring of the stage in low light.
Connections for portable video (for temporary displays and camera locations) are provided around the stage and around the seating areas. Typical cameras used are from Panasonic, Hitachi, or Sony.

**Jazz Center Rack Room**
The rack room will be an enclosed, conditioned space that houses:

Digital signal processors ("DSP") used to time align, “tune” and control the main loudspeaker systems. These devices are selected for compatibility with the primary mix console and loudspeakers, and include products from BSS, Meyer, and QSC. Control and processing for the auxiliary systems, which includes the ADA-compliant listening assistance from Listen Tech or Sennheiser, 2-4 channel production intercom from Clear-Com, and backstage and lobby program and paging systems (see also below) is achieved using the same DSP system.

Analog microphone connections are routed to the stage and mix racks, as appropriate, and are connected to digital stage boxes for the mixing console, via patch bays. A system of line level tie lines are provided between the termination panels and the stage and mix racks, as well as between the racks. This cabling specified is AES digital compatible so that digital and analog signals may be patched from point to point or connected to the digital sound console stage boxes, as needed. Connections will also be available.

The video distribution and patching systems are network based video transport. Digital audio and video networks as well as other network based systems are supported through a system of patchable Category 6A and fiber cabling. This also provides for future technologies to be incorporated into systems.

The rack room also houses the amplifiers for the page and program system for Lobby, public, and support spaces. Typical amplifiers are from QSC, Powersoft, or Yamaha.

**Jazz Center Loose Equipment**
Microphones, DI boxes, cables, stands, in-ear personal monitors and monitor wedges appropriate to the program are provided. Typical manufacturers include microphones by Neumann, Shure, Sennheiser, Beyer, AKG, and Audio-Technica; stands by Atlas; cables and snakes by Whirlwind; and monitor loudspeakers by Meyer Sound, or other similar manufacturers.

**LOBBY**

**Lobby Systems**
Lobby audio and video devices provide audio and video show program and house manager paging:

Distributed audio is provided for uniform coverage of the lobby and adjoining public spaces. Due to the height of the lobby ceiling, most loudspeakers will be wall-mounted around the perimeter. The house manager can page the lobby for pre-show announcements, and can play a chime tone to indicate pre-show and intermission warnings.

Lobby video displays are set up to carry show video for latecomers. These same displays may be used for digital signage functions when not used to display show program.
BACKSTAGE

Backstage Systems
Backstage audio and video devices provide show program and stage manager paging. Distributed audio is provided for uniform coverage of all backstage spaces used actively by cast and crew.

Backstage video displays carry show video for monitoring in select locations. Unlike the lobby, backstage video does not usually include digital signage.

SHARED COMMON EQUIPMENT

All audio and video systems are powered by a separate Audio & Video Technical Power System (AVTP) to ensure noise-free operation. The AVTP system runs on a dedicated transformer and all associated outlets utilize dedicated isolated ground wires and hospital-grade outlets. The AVTP system is used only for audio and video equipment. The AVTP system includes 3-phase temporary power connections (company switches) onstage for connecting temporary or supplementary rental equipment.

ELECTRONIC ACOUSTIC ENHANCEMENT SYSTEM (ADD/ALT)

Now that we have decided on a modest physical renovation of the Hilberry using the existing floor, stage, catwalks, and ceiling, we strongly believe an electronic enhancement system would be vital to creating the outstanding acoustics that the Valade Jazz Hall deserves. These systems are mature, sophisticated, reliable, and quite common in existing halls. We recommend systems by Meyer and E-Acoustics as the basis of design. As a rough order of magnitude cost range, based on final room design and selected manufacturer, we estimate this system to cost between $350K and $675K. Provided in this narrative as an add/alt, this number is separate from the total AV systems estimate.

By using these systems we can

1. Eliminate all but the upstage acoustic drapes that were on the walls and in the catwalks
2. Eliminate all the infrastructure, support systems, pockets and other materials for the drapes
3. Allow less massive walls (2 layers GWB vs 3) and less massive diffusive materials (hollow not solid)
4. Eliminate the overhead acoustic reflectors above the stage and their support systems (dead hung)
## AUDIO/VIDEO SYSTEMS STATEMENT OF PROBABLE COST

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
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<td>Gretchen Valade Jazz Center</td>
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<tr>
<td>2</td>
<td>Lobby</td>
<td>$15K</td>
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<td>3</td>
<td>Backstage</td>
<td>$25K</td>
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<td>4</td>
<td><strong>Total -- Estimate for AV Contractor</strong></td>
<td><strong>$450K 1</strong></td>
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<tr>
<td>5</td>
<td>Electronic Acoustics Enhancement System (Add/Alt)</td>
<td>$350K – 675K</td>
</tr>
</tbody>
</table>

Note 1: The AV subcontract budget estimates:
- are +/- 20% accurate, and are based on the design as presented in the Design Development documentation, and on past projects of a similar nature.
- are for fully integrated, installed, tested and commissioned systems provided by a professional AV Integrator.
- are for normal work conditions in construction in the greater Detroit area and are subject to market conditions. They do not include technical power and cable raceways, taxes, bonding, mark-ups, contingencies, inflation, or allowance for unusual contractual requirements included in the specification General Conditions.
ADDENDUM LIST

WSU GATEWAY THEATER – VALADE CENTER

1. Existing Accessible rest room off the Valade Lobby (Room 1101 on A1.1A).
   a. New toilet, sink, grab bars, toilet accessories, mirror
   b. Wall tile 6'-0" up on wet wall
   c. New paint
   d. New light fixture in ceiling and over mirror.

2. BOH spaces Updates (A1.1A)
   a. Flip storage room and piano storage / AV rack room.
      i. Update Storage room to Green Room (Room 1116)
   b. Update Green Room to Dressing Room (Room 1121)
      i. Turn Green Room closet into Janitor’s closet (Room 1121.1)
   c. Add restroom (Room 1127) to Green Room by demoing existing closets and janitor’s closet.
   d. Update laundry room to storage room (Room 1129).
      i. Remove washer, dryer and refrigerator.

3. Donor Lounge (Room 2100 on A1.2A).
   a. New carpet
   b. Wall, base, trim to receive new paint
   c. Scrape and paint existing windows and trim.
   d. ACT ceiling pads to be replaced with new pads and the existing ACT grid to receive new paint.

4. New offices in Organ Loft (Rooms 1126 and 1127 on A1.2A)
   a. Provide 2 @ 10’ x 12’ New offices
   b. Metal stud and gyp board wall construction for 9’ high walls
   c. 2x2 ACT ceiling at 8’-6”
   d. Painted walls and carpet flooring finishes
   e. Stage monitor to be provided in one office
CONTRACTOR TO COORDINATE WITH ARCHITECT
REFER TO SHEET A7.4.1 FOR PARTITION TYPES
ALL BASE CABINETS TO BE AS NOTED W/ PROVIDE POSITIVE SLOPE AT ALL FLOOR DRAINS

3.0
20' - 7"
19' - 2"
3
168' - 6"
1.0
REFER TO FLOOR FINISH PLANS (DRAWING
REFER TO SHEET A7.4.3 FOR FIRESTOPPING AND PROVIDE ACOUSTIC BATT AT PUBLIC RESTROOM
TYPICAL DOOR FRAME TO WALL DIMENSION IS
PROVIDE GLASSMAT BACKER AT ALL TOILET
REFER TO MECHANICAL, ELECTRICAL AND
Wayne State University FP&M
2
PROVIDE PATCHING COMPOUND AND
REFER TO SHEET A7.4.2 FOR WALL REINFORCING
A1.2B
19' - 0"
1.2
WALL PROTECTION LOCATIONS
PROVIDE WALL REINFORCING FOR
19' - 2"
1.0
DETROIT, MI 48202
313.577.2424

1.0
DETROIT, MI 48202
313.963.8000

5.0
20' - 7"
LEVEL
SUBSTRATE SUITABLE FOR INSTALLATION
OF NEW FLOORING.

6.7
13' - 11"
- OPEN TO BELOW
- PERFORMERS
- ACCESSIBLE

LEVEL TWO - SECTOR A

FLOOR PLAN LEGEND
NEW PARTITION WALL
2 HOURS RATED WALL

FLOOR PLAN NOTES
1. EXISTING CONDITIONS PRIOR TO ANY WORK OR INSTALLATION
2. UNDERLAYMENT TO REPAIR FLOORS DAMAGED BY 1/4" MAX TO ACCOMMODATE FLOOR SLOPE TO DRAIN
3. PROVIDE GLASSMAT BACKER AT ALL TOILET
4. PROVIDE PATCHING COMPOUND AND
5. REFER TO SHEET A7.3
6. REFER TO Www.1-800-598-1600
7. REFER TO SHEET A7.4.3 FOR FIRESTOPPING AND PROVIDE ACOUSTIC BATT AT PUBLIC RESTROOM
8. REFER TO SHEET A7.4.1 FOR PARTITION TYPES
9. REFER TO SHEET A7.4.2 FOR WALL REINFORCING
10. REFER TO SHEET A7.4.3 FOR FIRESTOPPING
11. A1.25 CLEAN AND REPAIR EXISTING TERRAZZO FLOORING AND BASE
12. A1.26 CLEAN EXISTING SINK AND SHOWER, AND REPAIR ANY DAMAGED PLUMBING
15. A3.1.4 UNDERLAYMENT TO REPAIR FLOORS DAMAGED
16. A3.1.5 PROVIDE GLASSMAT BACKER AT ALL TOILET
17. A3.1.6 PROVIDE PATCHING COMPOUND AND
18. A3.1.7 REFER TO SHEET A7.3
19. A3.1.8 REFER TO SHEET A7.4.1 FOR PARTITION TYPES
20. A3.1.9 REFER TO SHEET A7.4.2 FOR WALL REINFORCING
21. A3.1.10 REFER TO SHEET A7.4.3 FOR FIRESTOPPING

ACOUSTICS / AV

Wayne State University FP&M
2

MEP Engineer
HGA

Lighting
HGA

THEATER COMPLEX
WSU PROJECT NO. 189-178578
WSU - GATEWAY
905 South Blvd East
Rochester Hills, MI 48307
800.598.1600

248.392.2010

2121
2124
2122
Corridor

2103
2107
Men's

2101
2102
Women's

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THEATER COMPLEX
WSU PROJECT NO. 189-178578
LEVEL TWO PLAN - SECTOR A