



REQUEST FOR PROPOSAL Simulation Center Audio

Date: March 9, 2018

Northern Maine Community College (NMCC) is requesting proposals from an authorized vendor to install audio equipment at the Nursing Simulation Center currently being renovated on campus. Construction begins approximately April 2, 2018 and is expected to be completed by June 30, 2018. The awarded vendor is expected to install the Audio equipment by June 14, 2018 or in accordance with the construction schedule if it changes from the current plan. This will be coordinated with the owner and General Contractor. Installation of audio equipment and cabling will need to be coordinated with General Contractor and owner. A floor plan of the room is included with this RFP but vendors may request a walkthrough of the Simulation Center. Please contact Julie Clark at jaclark@nmcc.edu to set up a time for the walkthrough. The walkthrough needs to be done by March 30, 2018.

Deadline for questions: March 30, 2018

Proposals Due: April 6, 2018

Questions, Inquiries and Submissions can be emailed to jaclark@nmcc.edu or delivered/mailed to:

Northern Maine Community College
Attn: Julie Clark
33 Edgemont Drive
Presque Isle, ME 04769

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1) GENERAL INFORMATION

- a) Purpose: Northern Maine Community College (NMCC) is seeking bids for an Audio System for the new Nursing Simulation Center located 33 Edgemont Drive Presque Isle, ME 04769. This Request for Proposal (RFP) states the instructions for submitting bids, the procedure and criteria by which a vendor may be selected and the contractual terms by which the college intends to govern the relationship between it and the selected vendor.
- b) Definition of Parties: Northern Maine Community College will hereinafter be referred to as “the College”. Respondents to the RFP shall be referred to as “Bidders”. The Bidder to whom the contract is awarded shall be referred to as the “Contractor”.
- c) Scope: The selected Bidder will provide and install the Audio System for NMCC Simulation Center as outlined in this Request for Proposal. The desired specifications and technical services start on page six (6).
- d) Evaluation: Award will be made by the evaluation criteria listed below:

Factor	Weight
Total proposed price and billing rates	30%
Qualifications	20%
Pertinence and/or quality of references	20%
Quantity/frequency/relevance of similar projects	20%
Proposal Quality, Detail and Organization	10%

- e) Communication with the College: It is the responsibility of the Bidder to inquire about any requirements of the RFP that are not understood. Responses to inquiries, if they change or clarify the RFP in a substantial manner, will be forwarded by addenda to all parties that have received a copy of the RFP. The College will not be bound by oral responses to inquiries or written responses other than addenda.
- f) Award: The College reserves the right to conduct any tests it may deem advisable and to make all evaluations. The College reserves the right to reject any or all bids, in whole or in part and is not necessarily bound to accept the lowest bid if that bid is contrary to the best interest of the College. Scholarships, donations or gifts to the College will not be considered in the evaluation of bids. A bid may be rejected if it is in any way incomplete or irregular. When there are tie bids, there shall be a preference for “in-state bidders”. When the bids

are either both in-state or both out-of-state, the award will be made to the bid that arrives first in Northern Maine Community College's Information Technology Office. NMCC reserves the right to reject any or all bids, to waive or not waive informalities or irregularities in bids or bidding procedures, and to accept or further negotiate cost, terms, or conditions of any bid determined by NMCC to be in the best interests of NMCC even though not the lowest bid.

- g) Costs of Preparation: Bidder assumes all costs of preparation of the bid and any presentations necessary to the bidding process.
- h) Debarment: Submission of a signed bid in response to this solicitation is certification that your firm (or any subcontractor) is not currently debarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded from participation in this transaction by any State or Federal department or agency. Submission is also agreement that the College will be notified of any change in this status.
- i) Bid Understanding: By submitting a bid, the Bidder agrees and assures that the specifications are adequate and the Bidder accept the terms and conditions herein. Any exceptions should be noted in your response.
- j) Specification Protest Process and Remedies: If a bidder feels that the specifications are written in a way that limits competition, a specification protest may be sent to Northern Maine Community College's Dean of Finance. Protests will be responded to within five (5) business days of receipt. Determination of protest validity is at the sole discretion of the College. The due date of the bid may be changed if necessary to allow consideration of the protest and issuance of writing as soon as identified, but no less than five (5) business days prior to the bid opening date and time. No protest against the award due to the specifications shall be considered after this deadline. Protest shall include the reason for the protest and any proposed changes to the specifications. Protest should be delivered to the Dean of Finance and General Service's Office in sealed envelopes, clearly marked as: "NMCC Nursing Simulation Lab Audio System RFP".
- k) Bid Validity: Unless specified otherwise, all bids shall be valid for ninety days from the due date of the bid.
- l) Errors: Bids may be withdrawn or amended by Bidders at any time prior to the bid opening. After the bid opening, bids may not be amended. If a significant mistake has been made by an apparent low Bidder, the Bidder will be given the option of selling at the price given or withdrawing the bid. If an extension error has been made, the unit price will prevail.

- m) Submission: A signed original plus one (1) copy of the bid may be sent to Julie Clark:

Northern Maine Community College

Attn: Julie Clark – Audio RFP

33 Edgemont Drive

Presque Isle, ME 04769

by April 6, 2018, 2PM. Bids can also be emailed to jaclark@nmcc.edu with “SIMULATION CENTER AUDIO RFP” in the subject line. Bidders are strongly encouraged to submit bids in advance of the due date to avoid the possibility of missing the 2:00 p.m. deadline due to unforeseen circumstances. Bidders assume the risk of the methods of dispatch chosen. The College assumes no responsibility for delays caused by any package or mail delivery service. A postmark on or before the due date WILL NOT substitute for receipt of bid. Bids must be dated and time stamped by the College on time to be considered. Bids received after the due date and time will not be considered. Additional time will not be granted to any single bidder; however, additional time may be granted to all vendors when the College determines that circumstances require it. Faxed bids will not be accepted.

- n) Tax Exempt: The College is exempt from the payment of Federal Excise Taxes on articles not for resale and for the Federal Transportation Tax on all shipments. The Contractor and subcontractor shall quote and shall be reimbursed less these taxes. Upon application, exemption certificates will be furnished when required. The College is exempt from the payment of Maine State Sales and Uses taxes.

2) **CONTRACT TERMS AND CONDITIONS**

- a) Contract Documents: If a separate contract is not written, the contract entered into by the parties shall consist of the Request for Bids, the signed bid submitted by the Contractor, the specifications including all modifications thereof, and a purchase order or letter of agreement requiring signatures of the College and the Contractor, all of which shall be referred to collectively as the Contract Documents.
- b) Contract Validity: In the event one or more clauses of the contract are declared invalid, void, unenforceable or illegal, that shall not affect the validity of the remaining portions of the contract.
- c) Contract Administration: Barry Ingraham, Dean of Technology and Facilities, shall be the College’s authorized representative in all matters pertaining to the administration of any contract(s) regarding the Audio/Visual Distribution System.
- d) Litigation: This Contract and the rights and obligations of the parties hereunder shall be governed by and construed in accordance with the laws of the State of Maine. The Contractor agrees that any litigation, action or proceeding arising out of the Contract shall be instituted in a state court located in the State of Maine.

- e) Assignment: Neither party of the contract shall assign the contract without the prior written consent of the other, nor shall the contractor assign any money due or to become due without the prior written consent of the College.
- f) Equal Opportunity: In the execution of the contract, the Contractor and all subcontractors agree, consistent with college policy, not to discriminate on the grounds of race, color, religion, sex, sexual orientation, transgender status or gender expression, national origin or citizenship status, age disability or veteran's status and to provide reasonable accommodations to qualified individuals with disabilities upon request. The College encourages the employment of individuals with disabilities.
- g) Sexual Harassment: The College is committed to providing a positive environment for all students and staff. Sexual harassment, whether intentional or not undermines the quality of the educational and working climate. The College thus has a legal and ethical responsibility to ensure that all students and employees can learn and work in an environment free of sexual harassment. Consistent with the state and federal law, this right to freedom from sexual harassment was defined as College policy by the Board of Trustees. Failure to comply with this policy could result in termination of this contract without advance notice.
- h) Smoking Policy: Northern Maine Community College must comply with the "Workplace Smoking Act of 1985" and MRSA title 22, 1541 et seq, "Smoking Prohibited in Public Places." In compliance with this law, Northern Maine Community College has prohibited smoking on campus. This rule must also apply to all contractors and workers that are on campus. The Contractor shall be responsible for the implementation and enforcement of this requirement.
- i) Parking Regulations and Use of Walkways: Unregistered vehicles on the college campus are subject to a parking violation ticket and/or towing off campus. Contractors are advised that parking regulations are strictly enforced by Campus Security. Towing will be at the Contractor's expense. Campus Security will issue temporary parking permits as needed.
- j) Payments: Payment will be upon final acceptance of product and submittal of an invoice to the College, by the Contractor on a net 30 basis unless discount terms are offered.

NOTICE TO VENDORS AND BIDDERS:
STANDARD TERMS AND CONDITIONS APPLICABLE TO ALL MCCS CONTRACTS

The following standard contracting terms and conditions are incorporated and shall become a part of any final contract that will be awarded by any college or other operating unit of the Maine Community College System (collectively "MCCS"). These terms and conditions derive from the public nature and limited resources of the MCCS. MCCS DOES NOT AGREE TO:

1. Provide any defense, hold harmless or indemnity;
2. Waive any statutory or constitutional immunity;
3. Apply the law of a state other than Maine;
4. Procure types or amounts of insurance beyond those MCCS already maintains or waive any rights of subrogation;
5. Add any entity as an additional insured to MCCS policies of insurance;
6. Pay attorneys' fees, costs, expenses or liquidated damages;
7. Promise confidentiality in a manner contrary to Maine's Freedom of Access Act;
8. Permit an entity to change unilaterally any term or condition once the contract is signed; and
9. Automatic renewals for term(s) greater than month-to-month.

By submitting a response to a Request for Proposal, bid or other offer to do business with MCCS, YOUR ENTITY UNDERSTANDS AND AGREES THAT:

1. The above standard terms and conditions are thereby incorporated into any agreement entered into between MCCS and your entity; that such terms and condition shall control in the event of any conflict with such agreement; and that your entity will not propose or demand any contrary terms;
2. The above standard terms and conditions will govern the interpretation of such agreement notwithstanding the expression of any other term and/or condition to the contrary;
3. Your entity will not propose to any college or other operating unit of the MCCS any contractual documents of any kind that are not in at least 11-point font and completely contained in one Word or PDF document, and that any references to terms and conditions, privacy policies or any other conditions referenced outside of the contract will not apply; and
4. Your entity will identify at the time of submission which, if any, portion or your submitted materials are entitled to "trade secret" exemption from disclosure under Maine's Freedom of Access Act; that failure to so identify will authorize MCCS to conclude that no portions are so exempt; and that your entity will defend, indemnify and hold harmless MCCS in any and all legal actions that seek to compel MCCS to disclose under Maine's Freedom of Access Act some or all of your submitted materials and/or contract, if any, executed between MCCS and your entity.

3) PURPOSE AND SCOPE

Northern Maine Community College is accepting proposals for Audio Systems in the new Nursing Simulation Center.

Audio Needs

Northern Maine Community College is investing in their nursing program by creating three Allied Health simulation rooms. The Simulation Center is used for training students in the nursing program.

When the simulation classrooms are in use, the College anticipates capturing the audio from the students and from the control room operator who will be giving instructions to the students. This audio will then be recorded and streamed for reviewing, debriefing and further instruction.

To capture the audio in the simulation classrooms, the College will have one or two ceiling microphones located near the center of the room and one wall mounted microphone located at the head of the bed. A wireless boundary table top microphone will also be available for use anywhere in the room. The simulation room audio will be sent to the control room and will go directly into the DSP. From the DSP, the audio will be distributed to a headphone connection in the control room and to a small footprint wall-mounted speaker. The USB audio out of the DSP will be sent to the capture PC where the College uses Panopto for streaming and recording. To allow the students in the Simulation Classrooms to hear the instructor, the classrooms will have a ceiling recessed speaker mounted near the center of the room. The Simulation Classrooms will also have a wall mounted speaker at the head of the bed. The bed speaker is to be used as a way for the instructor in the control room to act as the patient talking and sharing symptoms.

The Room Speaker and the Bed Speaker will each have their own desktop “push-to-talk” goose neck microphone associated with them. The instructor will use the Room Microphone to talk through the Room Speaker and the Bed Microphone to be heard out of the Bed Speaker. When the microphone is active, an LED on the microphone base will illuminate.

The Room and Bed microphone audio will also be used to record/capture the instructor’s audio.

To quickly make microphone level and volume adjustments, a control processor and touch panel will be provided. The touch panel will also be located on the Control Room work station and be programmed to control the digital signal processor. The building of the custom touch panels and the control program will be performed by the bidder and submitted to NMCC for approval before installation.

All audio routing, echo cancelling, feedback control and noise cancellation will be controlled by the DSP. The configuration for the DSP will be completed by the bidder.

NOTE: NMCC will be providing the AV equipment racks and will be available on-site. Bidders should have it in their install plan to test all equipment at office before bringing to site for install. It is imperative and mandatory that all custom-built graphic user interface, digital audio signal processing and control system software as well as source code to program, change, and maintain all systems are provided to NMCC upon completion of the project.

Technical Services Provided by Contractor

Application Engineering:

- Bidder to have a CTS-D on staff to review the design for proper functionality and provide constructive feedback using NMCC provided audio line drawings.

Project Management Requirements:

- Develop and maintain a project schedule in line with the College's timeline.
- Manage appropriate staff on site.
- Stage equipment and materials at bidder's location.
- Submit all equipment documentation via flash drive, binder, or email link.
- Provide on-site end-user training and associated manuals

Installation Shop Labor:

- Build and test all cables.
- Test all rack equipment and create a rack elevation for rack build on site.
- Bench test all equipment, upgrade all firmware, capture all serial numbers.

Installation Field Labor:

- Pull and label all cable within the scope.
- Terminate all cables.
- Mount equipment in ceilings and walls.
- Commission System.
- Site clean-up, disposal, etc.

Commissioning:

- Set up the DSP and confirm proper operations such as mixing, matrixing, signal levels and control using the touch panel.
- Set up and confirm full touch panel functionality and use in all modes.
- Listen and fix as needed, any audio buzz and mechanical rattling of speakers.
- Provide DSP and Control Software to NMCC.

Training:

- Provide operation documentation.
- Provide one on-site training session.
- Provide Operation assistance via phone for one year.

System Manual:

- To be provided in a three-ring binder as well as one thumb drive copy and will include the following:
 - Table of Contents
 - System Description
 - As-Built audio line drawings
 - Equipment list with serial numbers list
 - Operation Document
 - Warranty Information
 - Manufacturer's Manuals.

Warranty:

Selected bidder provides that the system furnished for the project, including all installation labor, workmanship, material and products are free from defects or equipment failure for a period on one (1) year from the date of final invoice.

To ensure the high level of audio installation standards are understood, performed and met, NMCC is requiring the Audio Bidder to have on staff at least one *Certified Technology Specialist in Design (CTS-D)* and a *Certified Technology Specialist in Installation (CTS-I)* assigned to the project.

4) VENDOR BACKGROUND

1. W-9 required

2. How long has your company been in business?

3. Indicate whether your company is the manufacturer or the distributor of the proposed equipment. If you are a distributor, describe the terms of your agreement with the manufacturer and the manufacturer's level of support.

4. Provide 4 references from 4 projects similar to this project and dealing with medical simulations.

5. Provide all qualifications for employees that will be involved in this project.

5) Equipment List

Quantity	Part Number	Description
4	Earthworks IM6-W	Ceiling Microphone Cardioid Installation Microphone with 6" Gooseneck, White - 30Hz-30 kHz
3	Shure ULXD4	Digital wireless receiver
3	Shure ULXD6/0	Boundary Wireless Microphone Transmitter to be used as a portable microphone. Omni Directional.
2	Shure SBC450-US	Dual battery charger with PS45 power supply for wireless transmitter
6	Shure MX418D/C	Desktop Base with 10' Cable, Logic Functions, Programmable Switch, LED Indicator, Snap-Fit Foam Windscreen
3	Audix GS1	Wall flush mounted, low profile condenser microphone for simulation rooms head of bed. The microphone element can be adjusted and rotated for directivity.
3	Biamp TESIRAFORTE CI	TesiraFORTÉ DSP fixed I/O server with 12 analog inputs, 8 analog outputs, and 8 channels Configurable USB audio, and Acoustic Echo Cancellation (AEC) technology (all 12 inputs)
3	RDL DS-HPA3	Control Room Head phone amplifier and speaker amplifier. Decora-style. 1 Gang. Can be used for direct headphone connection to Sim Room audio or used to control volume of the speaker beside it.
3	RDL DS-PSP1	Control Room and head of bed speaker. Decora-style active loudspeaker with volume control.
3	RDL DS-SP1A	Control Room companion speaker for headphone amplifier. Decora-style. 1 Gang. The D SERIES-SP1A is a compact 8-ohm loudspeaker that delivers rich, detailed sound in Decora-compatible wall or chassis mounts.
6	RDL PS-24AS	24VDC Power Supply for the RDL speakers and headphone amplifier
3	JBL CSA240Z	Ceiling Speakers 2 x 40W Drive Core Amplifier, Fan less, 4ohm /8ohm /70V /100V, 1U Half- Rack, mounting kit

4	JBL CONTROL 47C/T	Premium Two-Way 6.5" coaxial low-profile ceiling loudspeaker, extended bass, 55 - 20 Hz frequency, 8 Ohm and 70V.
3	Crestron Electronics RMC3	3-Series Room Media Controller. Used to choose mode of operation, increase volumes and Microphone sensitivity.
3	Crestron Electronics TSW-560-TTK-B-S	Tabletop kit for 5" touch panel
3	Crestron Electronics TSW-560-B-S	5" Touch Screen for controlling modes, volumes, microphone levels
1	Shure SRH440	Shure Professional Studio Headphones
1	Shure HPAEC440	Replacement ear cushion for SRH440 professional studio headphone
3	RDL CP-2S	Double gang stainless cover for headphone/speaker box
3	RDL CP-1S	Single gang stainless cover for headphone/speaker box

6) TECHNICAL DRAWINGS AND RENOVATION PLANS

SHEET NO.		ISSUE LOG						ROOM	DRAWING DESCRIPTION
COVER PAGE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		COVER PAGE, RESPONSIBILITY SCHEDULE, GENERAL NOTES, & SYMBOL LEGEND	
AV-01	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SIMULATION ROOM F	AUDIO SYSTEM FLOW & ELECTRICAL RISER DIAGRAM	
AV-02	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SIMULATION ROOMS	AUDIO VISUAL RACK ELEVATIONS & POWER RISER DIAGRAMS TYPICAL OF THREE	
AV-03	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SIMULATION ROOM H	AUDIO SYSTEM FLOW DIAGRAM	
AV-04	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SIMULATION ROOMS	CONTROL SYSTEM FLOW DIAGRAM TYPICAL OF THREE	
AV-05	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SIMULATION ROOM J	AUDIO SYSTEM FLOW DIAGRAM	
AV-06	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SIMULATION ROOM H & J	AUDIO VISUAL ELECTRICAL RISER	

DRAWING INDEX

SHEET NO.		ISSUE LOG						ROOM	DRAWING DESCRIPTION
COVER PAGE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		COVER PAGE, RESPONSIBILITY SCHEDULE, GENERAL NOTES, & SYMBOL LEGEND	
AV-01	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SIMULATION ROOM F	AUDIO SYSTEM FLOW & ELECTRICAL RISER DIAGRAM	
AV-02	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SIMULATION ROOMS	AUDIO VISUAL RACK ELEVATIONS & POWER RISER DIAGRAMS TYPICAL OF THREE	
AV-03	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SIMULATION ROOM H	AUDIO SYSTEM FLOW DIAGRAM	
AV-04	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SIMULATION ROOMS	CONTROL SYSTEM FLOW DIAGRAM TYPICAL OF THREE	
AV-05	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SIMULATION ROOM J	AUDIO SYSTEM FLOW DIAGRAM	
AV-06	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SIMULATION ROOM H & J	AUDIO VISUAL ELECTRICAL RISER	

AV SYMBOL LEGEND

<h4>WALL</h4> <p>1. GANG JUNCTION BOX OR MUD RING XXXX</p> <p>2. GANG JUNCTION BOX OR MUD RING XXXX</p> <p>3. GANG JUNCTION BOX OR MUD RING XXXX</p> <p>4. GANG JUNCTION BOX OR MUD RING XXXX</p> <p>WB WALL BOX XXXX</p> <p>CA CABLE TV XXXX</p> <p>VDC VOICE/DATA PORT @ WALL XXXX</p> <p>PR POWER RECEPTACLE @ WALL, DUPLEX, 120V/20A</p> <p>QPR POWER RECEPTACLE @ WALL, QUAD, 120V/20A</p> <p>PSR POWER RECEPTACLE @ WALL, SINGLE RECESSED, 120V/20A</p> <p>HWP HARDWIRED AC POWER</p>	<h4>CEILING</h4> <p>PC1 PULL AREA AT PROJECTOR LOCATION</p> <p>PC2 PULL AREA AT FLAT PANEL DISPLAY LOCATION</p> <p>MC1 CEILING MOUNTED MICROPHONE PROVIDED BY A/C</p> <p>SC1 CEILING MOUNTED SPEAKER. REFER TO DETAIL FOR EXACT MOUNTING SPECIFICATION</p> <p>CC1 CEILING MOUNTED CAMERA. REFER TO DETAIL FOR EXACT MOUNTING SPECIFICATION</p> <p>GW1 CEILING MOUNTED WIRELESS GATEWAY. REFER TO DETAIL FOR EXACT MOUNTING SPECIFICATION</p> <p>UVS SCREEN LOW VOLTAGE INTERFERENCE WITH MOTOR AND INTERFACE MOUNTS ABOVE FINISHED CEILING.</p> <p>PS1 PULL AREA AT PARTITION SENSOR LOCATION</p> <p>OS1 PULL AREA AT OCCUPANCY SENSOR LOCATION</p> <p>AA1 PULL AREA AT ANTENNA LOCATION</p> <p>VDC VOICE/DATA PORT @ CEILING</p> <p>PR POWER RECEPTACLE @ CEILING, DUPLEX, 120V/20A</p> <p>QPR POWER RECEPTACLE @ CEILING, QUAD, 120V/20A</p>	<h4>FLOOR</h4> <p>FB1 AV FLOOR BOX</p> <p>PT1 AV POKE THRU</p> <p>SB1 CONDUIT STUB UP</p> <p>FC1 AV FLOOR CORE</p> <p>AVT1 AV FLOOR TRACK</p> <p>VDC VOICE/DATA PORT @ FLOOR</p> <p>PR POWER RECEPTACLE @ FLOOR, DUPLEX, 120V/20A</p> <p>QPR POWER RECEPTACLE @ FLOOR, QUAD, 120V/20A</p>
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<h4>JUNCTION BOX SYMBOL LEGEND</h4> <p>ALPHABET INDICATING SIZE OF CONDUIT STUBBED INTO ACCESSIBLE CEILING OR WINDER FLOOR. SEE AV ELECTRICAL NOTES FOR EXACT CONDUIT SIZE.</p> <p>JUNCTION BOX NUMBER CORRESPONDING WITH CONDUIT RISER AND CABLE PULL SCHEDULE</p>	<h4>SPEAKER SYMBOL LEGEND</h4> <p>SPEAKER NUMBER</p> <p>ZONE NUMBER</p>	<h4>AV ELECTRICAL NOTES</h4> <p>1" CONDUIT STUBBED INTO ACCESSIBLE CEILING</p> <p>2" CONDUIT STUBBED INTO ACCESSIBLE CEILING</p> <p>3/4" CONDUIT STUBBED INTO ACCESSIBLE CEILING</p> <p>1" CONDUIT STUBBED INTO ACCESSIBLE CEILING</p> <p>1 1/4" CONDUIT STUBBED INTO ACCESSIBLE CEILING</p> <p>1 1/2" CONDUIT STUBBED INTO ACCESSIBLE CEILING</p> <p>2" CONDUIT STUBBED INTO ACCESSIBLE CEILING</p> <p>CLEAR CABLE PATH AND STRING TO ACCESSIBLE CEILING</p>
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GENERAL NOTES

GENERAL ELECTRICAL NOTES:

- 120VAC SERVICES FOR EQUIPMENT RACKS AND VIDEO PROJECTORS TO SHARE THE SAME PHASE
- ALL TELEDATA, NETWORK AND 120VAC CONVENIENCE OUTLETS INDICATED ON THESE DRAWINGS ARE FOR COORDINATION PURPOSES ONLY. REFER TO COMMUNICATIONS AND POWER PLANS FOR FULL TELEDATA, NETWORK AND ELECTRICAL REQUIREMENTS.
- REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL LIGHTING CONTROL STATION LOCATIONS, 120VAC REQUIREMENTS AND LIGHTING REQUIREMENTS.
- COORDINATE FINAL LOCATIONS OF SWITCHES, AV-PLATES AND J-BOXES WITH WALL TREATMENT AND SURFACES.
- ANY DISCREPANCIES OCCURRING BETWEEN THESE DOCUMENTS AND ELECTRICAL DOCUMENTS ARE TO BE REFERRED TO THE ARCHITECT.
- ALL AC OUTLETS INDICATED ON THESE DRAWINGS ARE FOR AV PURPOSES. FOR ALL OTHER AC NEEDS, REFER TO POWER PLANS.
- FINAL LOCATION AND COORDINATION OF ALL FLOOR BOXES TO BE VERIFIED IN FIELD WITH ARCHITECT PRIOR TO INSTALLATION.
- REFER TO ELECTRICAL DRAWINGS FOR ALL POWER CIRCUITRY.
- UNLESS SPECIFIED, JUNCTION BOXES SHALL BE SIZED AS REQUIRED BY THE ELECTRICAL CONTRACTOR.
- AV DRAWINGS, COMMUNICATIONS DRAWINGS, POWER PLAN DRAWINGS AND ARCHITECTURAL DRAWINGS SHOULD BE CAREFULLY REVIEWED SIMULTANEOUSLY TO AVOID UNDER-COUNTING OR OVER-COUNTING DEVICES AND MIS-LOCATING DEVICES.
- QUANTITIES GIVEN ON AV DETAIL PAGES AND AV ROOM SCHEDULE DRAWING (IF APPLICABLE) MUST BE CONFIRMED BY EACH DISCIPLINE WHEN REVIEWING THE AV DRAWINGS. THE QUANTITIES GIVEN ARE PRELIMINARY AND MAY NOT REFLECT ALL LAST MINUTE CHANGES. ANY DISCREPANCIES SHOULD BE REVIEWED WITH THE OWNER.

GENERAL LIGHTING NOTES FOR VIDEO CONFERENCING APPLICATIONS:

- INDIRECT FLORESCENT LIGHTING FIXTURES, CAPABLE OF PROVIDING EVEN ILLUMINATION WITHOUT SHADOWS IS SUGGESTED.
- AN EVEN 70 FOOT CANDLES REQUIRED AT 4'-0" ABOVE FINISHED FLOOR.
- LAMP COLOR TEMPERATURE OF 3500 KELVIN RECOMMENDED.
- WINDOWS WITHOUT TREATMENT WHERE APPLICABLE MAY CAUSE ISSUES BY ALLOWING A "MIX" OF LIGHTING COLOR TEMPERATURE FROM HALLWAY OR OUTSIDE LIGHTING.

GENERAL ACOUSTICAL NOTES:

- ROOM AMBIENT FROM ALL IN-ROOM OR EXTERNAL NOISE SOURCES NOT TO EXCEED 40dB A-WEIGHTED.
- AN OVERALL DESIGN GOAL FOR AN NC-25 TO NC-30 NOISE CRITERIA RATING IS DESIRABLE.
- ACOUSTICAL PANELS OR "SOUND-SOAK" WALL TREATMENTS SHOULD BE CONSIDERED FOR ONE WALL SURFACE.
- ACOUSTICAL PROPERTIES OF THE CEILING TILES, CARPET AND CARPET PAD SHOULD BE CONSIDERED DURING SELECTION.
- TO PREVENT SOUND LEAKAGE INTO THESE ROOMS FROM ADJOINING SPACES, ALL WALLS SHOULD EXTEND TO THE DECKING ABOVE. ALL PENETRATIONS LEAVING THE SPACE SHOULD BE SEALED AS REQUIRED. THE SPACE ABOVE THE CEILING TILES MAY ALSO NEED CONSIDERATION AND TREATED WITH FIBERGLASS BATTING.
- ACOUSTICAL REFLECTIONS OFF ALL GLASS SURFACES SHOULD BE ADDRESSED WITH APPROPRIATE WINDOW TREATMENTS.
- MAXIMUM REVERBERATION TIME SHOULD NOT EXCEED 0.6 SECONDS FOR ALL ROOMS.
- RECOMMENDED SOUND TRANSMISSION CLASS FOR WALL CONSTRUCTION METHOD TO BE OF A STC-45 RATING.

RESPONSIBILITY SCHEDULE

EQUIPMENT	SUPPLIED BY:			INSTALLED BY:		
	G.C.	IT/C.C.	AV/C.C.	G.C.	IT/C.C.	AV/C.C.
CEILING MOUNTED EQUIPMENT						
EQUIPMENT HARD POINTS:						
PROJECTOR SCREENS:						
PROJECTOR/DISPLAY MOUNTS:						
PROJECTOR/DISPLAY:						
SPEAKER HARDWARE & BACKBOX:						
CEILING MICROPHONES:						
WALL MOUNTED EQUIPMENT						
ALL SPECIFIED BLOCKING:						
FLAT PANEL MOUNTS:						
FLAT PANEL DISPLAYS:						
PROGRAM SPEAKERS:						
CAMERAS:						
PROJECTOR SCREENS:						
ELECTRICAL (FOR AV USE)						
ALL AV ELECTRICAL OUTLETS AND JUNCTION BOXES:						
AV ELECTRICAL CONDUITS & PULL STRINGS:						
FLOOR BOX AND ACCESSORIES:						
AV LOW VOLTAGE CABLES:						
ALL AV CONNECTORS:						
ALL AV WALL PLATES:						
VOICE & DATA NETWORK (FOR AV USE)						
ALL TELECOMMUNICATION PLATES:						
IP NETWORK CONFIGURATION FOR AV CONTROL:						
IP NETWORK CONFIGURATION FOR VIDEO CONFERENCING:						
VOIP/SIP CONFIGURATION FOR AUDIO CONFERENCING:						
POTS/ANALOG TELEPHONE SERVICE & TERMINATION:						
WIRELESS ACCESS POINT FOR AV:						
ALL COAX RF PLATES/CABLE CONNECTIONS:						
LIGHTING DIMMING SYSTEMS						
LIGHTING DIMMING EQUIPMENT:						
LIGHTING DIMMING LVC FOR AV INTERFACE:						
LIGHTING DIMMING LVC PROGRAMMED:						
MOTORIZED DRAPES/SHADES						
DRAPERY/SHADE MOTOR:						
DRAPERY/SHADE MOTOR LVC:						
DRAPERY/SHADE MOTOR LVC CABLE TERMINATED:						
PERMANENT FURNISHINGS						
MILLWORK/TABLE PENETRATIONS & MODIFICATIONS:						
CREDENSIA VENTILATION:						
EQUIPMENT RACKS FOR MILLWORK:						
AV EQUIPMENT RACKS:						

CLIENT



ADDRESS
33 Edgemont Drive
Presque Isle, ME 04769

PROJECT
**Simulation Center
Audio Installation**

SYSTEMS INTEGRATION

COVER PAGE

ORIGINAL

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REV.	DATE	DESCRIPTION
0	02-20-18	REVIEW
1		MARKS FOR REVIEW
2		MARKS FOR REVIEW
		REQ

ACT. MANAGER: **XX**
ENGINEER: **XX**
DRAFTER: **RD**
REVIEWER: **CO**

PROJECT NUMBER: **XX**
PROJECT NUMBER: **XXXXXX**
NATIVE SIZE: **ARCH C (24x18)**

ISSUED FOR: COORDINATION AS-BUILT

COVER PAGE

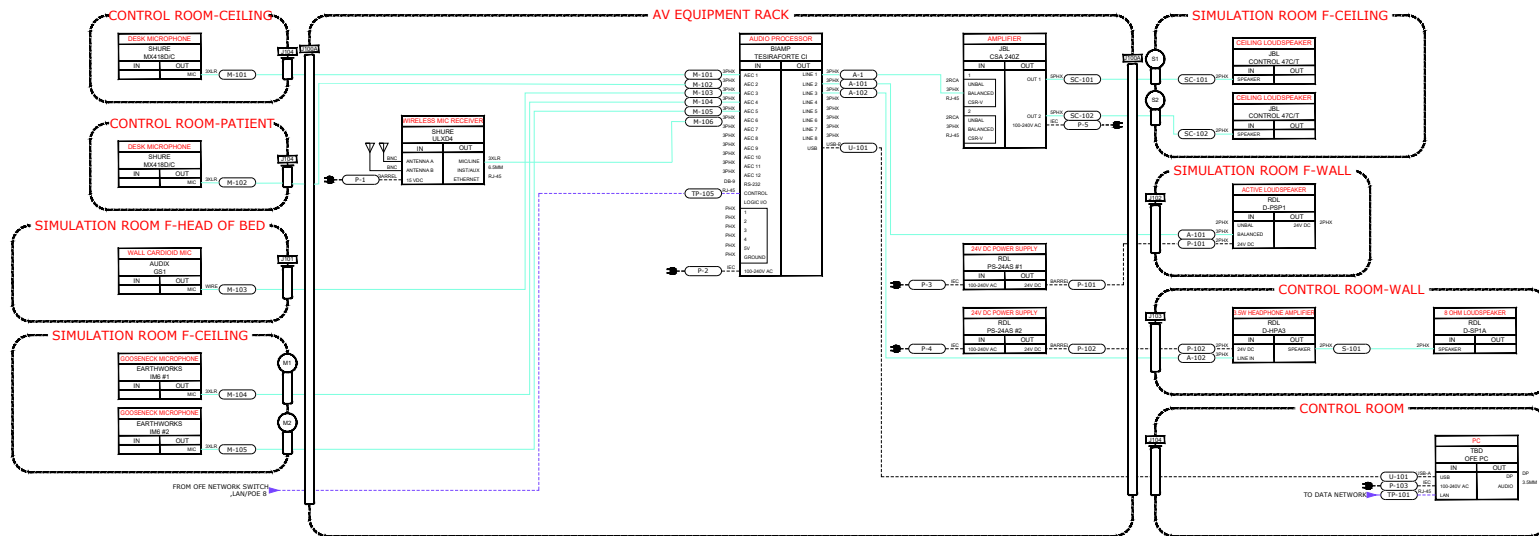
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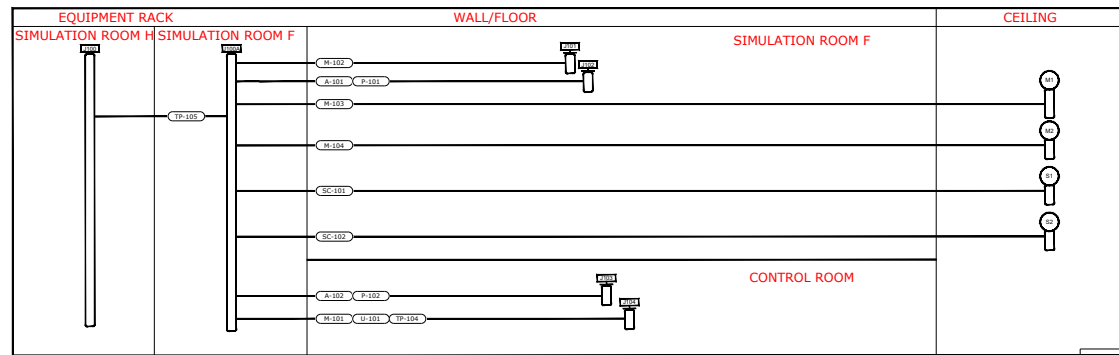
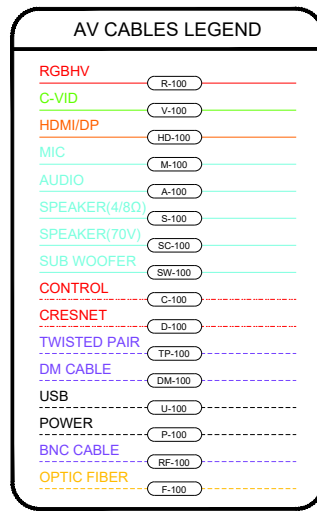
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Presque Isle, ME 04769

PROJECT
Simulation Center
Audio Installation

SYSTEMS INTEGRATION



A AUDIO SYSTEM FLOW DIAGRAM
SCALE: N.T.S.



B AUDIOVISUAL ELECTRICAL RISER DIAGRAM
SCALE: N.T.S.

CODE	TYPE	OUTER DIAMETER	CABLE FUNCTION	MANF. & CAT. #
R	SSHCOND26GA/PL75OHMBLACK	0.320"	Computer Video	WVC 9R8GBSTRPLN
V	1 COND25GA/BR/PLBLACK	0.198"	Analog Video	WEST PENN 6350
HD	PRE-MADE HDMI OR DISPLAY PORT CABLE	PER CABLE	HD DIGITAL SIGNAL	PER CABLE
DVI	PRE-MADE DVI CABLE	PER CABLE	HD DIGITAL SIGNAL	PER CABLE
M	2 COND22GA/SHDR/PLWHITE	0.126"	Microphone Level Audio	WEST PENN 291
A	2 COND22GA/SHDR/PLWHITE	0.126"	Line Level Audio	WEST PENN 292
SC	2 COND18GA/PLWHITE	0.158"	70v Speaker Chain	WEST PENN 224
S	2 COND14GA/PLWHITE	0.210"	Direct Couple Speaker	WEST PENN 226
C	8COND22GA/SHDR/PLWHITE	0.163"	RS-232, IR, 4-pin Audio	WEST PENN D2404
TP	8COND(4P)23GA/CAT6/PLWHITE	0.215"	Data/LAN	WEST PENN 4246
STP	8COND(4P)23GA/CAT6/SHDR/PLWHITE	0.277"	HDBaseT	WEST PENN 4246F
DM	CRESSTRON DIGITAL MEDIA SHIELDED CAT CABLE	.244"	Digital Media	CRESSTRON CRESNET-NP
U	PRE-MADE USB CABLE	PER CABLE	HID	PER CABLE
P	EQUIPMENT SPECIFIC POWER LINE	PER CABLE	Power To Device	PER CABLE
D	4COND2P/SH/18GA/DR/PL/TEAL&YELLOW	0.217"	Cresnet	CRESSTRON CRESNET-NP
RF	1COND10GA/BR/PL50 OHMWHITE	0.349"	Long Distance Antenna Cable	WEST PENN 810

AUDIO SYSTEM & ELECTRICAL RISER DIAGRAM
SIMULATION ROOM F

ORIGINAL

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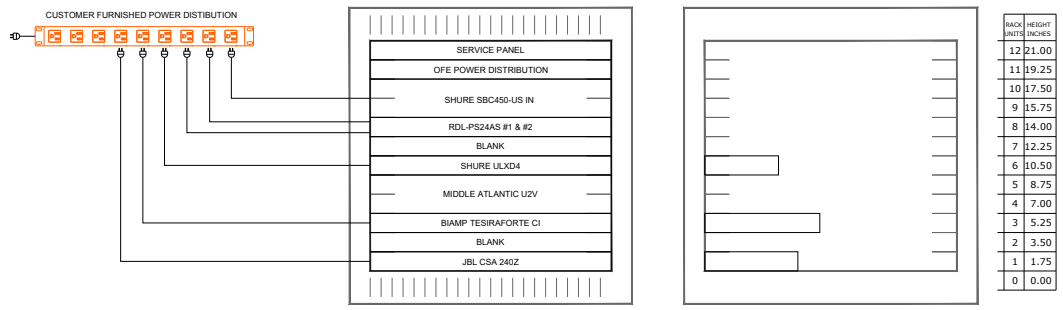
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1	03-01-18	REVIEW
2	03-01-18	REQ
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-	-	-
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-	-	-
-	-	-

ACCT. MANAGER: XX
ENGINEER: XX
DRAFTER: RD
REVIEWER: CO
PROJECT MANAGER: XX
PROJECT NUMBER: XXXXXX
NATIVE SIZE: ARCH C (24x18)

ISSUED FOR:
 RFD COORDINATION
 CONSTRUCTION AS-BUILT

DRAWING NUMBER:

AV-01



OFE EQUIPMENT RACK

AUDIO VISUAL RACK ELEVATION & POWER RISER DIAGRAM
 TYPICAL OF ALL THREE SIMULATION ROOMS

A SCALE: N.T.S.

CLIENT



ADDRESS
 33 Edgemont Drive
 Presque Isle, ME 04769

PROJECT
 Simulation Center
 Audio Installation

SYSTEMS INTEGRATION

AUDIO VISUAL RACK
 ELEVATIONS
 TYPICAL OF THREE
 RACKS

ORIGINAL

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REV.	DATE	DESCRIPTION
0	02-20-14	REVIEW
1	11-03-13	RFQ REVIEW
2	01-08-14	RFQ
-	-	-
-	-	-
-	-	-
-	-	-

ACCT. MANAGER: **XX**
 ENGINEER: **XX**
 DRAFTER: **RD**
 REVIEWER: **CO**
 PROJECT MANAGER: **XX**
 PROJECT NUMBER: **XXXXXX**
 NATIVE SIZE: **ARCH C (24x18)**

ISSUED FOR:
 RFP COORDINATION
 CONSTRUCTION AS-BUILT

DRAWING NUMBER:

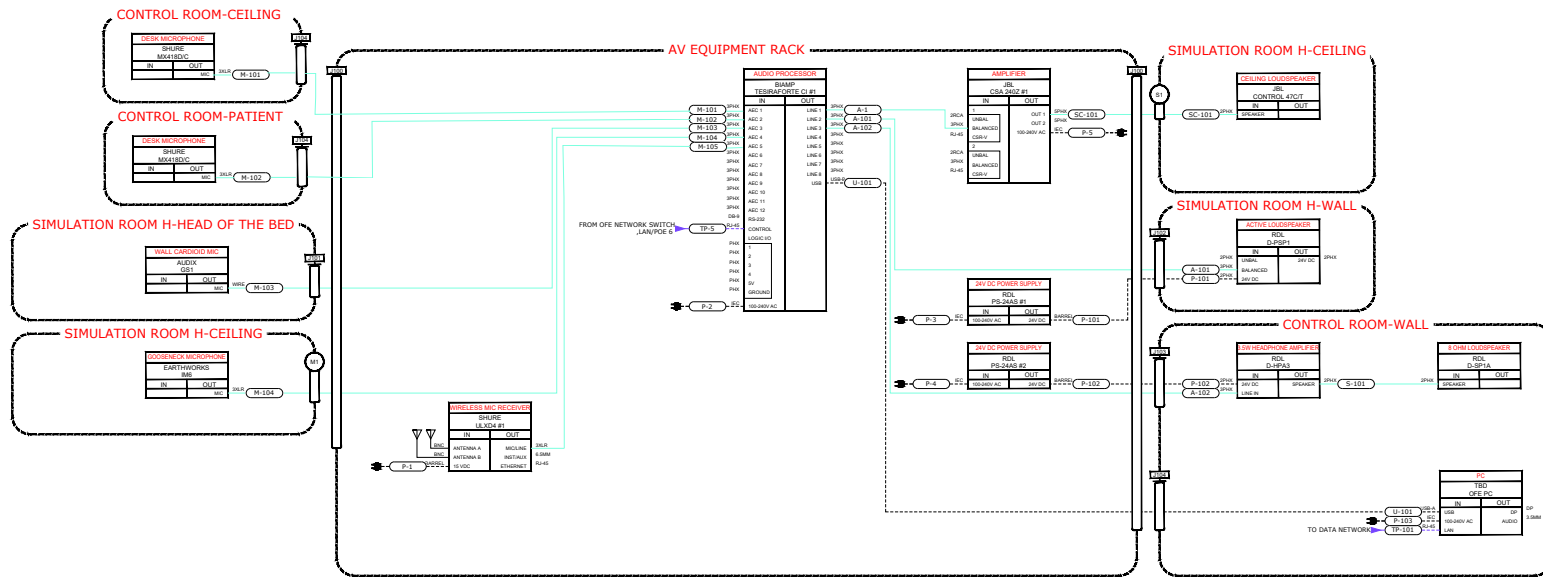
AV-02



ADDRESS
33 Edgemont Drive
Presque Isle, ME 04769

PROJECT
Simulation Center
Audio Installation

SYSTEMS INTEGRATION



A AUDIO SYSTEM FLOW DIAGRAM
SCALE: N.T.S.

AUDIO SYSTEM FLOW
DIAGRAM
SIMULATION ROOM H

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REV.	DATE	DESCRIPTION
0	02/20/14	PERM
1	03/03/14	REVIEW
2	03/18/14	REQ
3		
4		
5		
6		
7		
8		
9		

ACCT. MANAGER: XX
ENGINEER: XX
DRAFTER: RD
REVIEWER: CO
PROJECT NUMBER: XX

PROJECT NUMBER: XXXXXX
NATIVE SIZE: ARCH C (24x18)

ISSUED FOR:
 RFD COORDINATION
 CONSTRUCTION AS-BUILT

DRAWING NUMBER: **AV-03**

AV CABLES LEGEND	
RGBHV	R-100
C-VID	V-100
HDMI/DP	HD-100
MIC	M-100
AUDIO	A-100
SPEAKER(4/8Ω)	S-100
SPEAKER(70V)	SC-100
SUB WOOFER	SW-100
CONTROL	C-100
CRESNET	D-100
TWISTED PAIR	TP-100
DM CABLE	DM-100
USB	U-100
POWER	P-100
BNC CABLE	RF-100
OPTIC FIBER	F-100

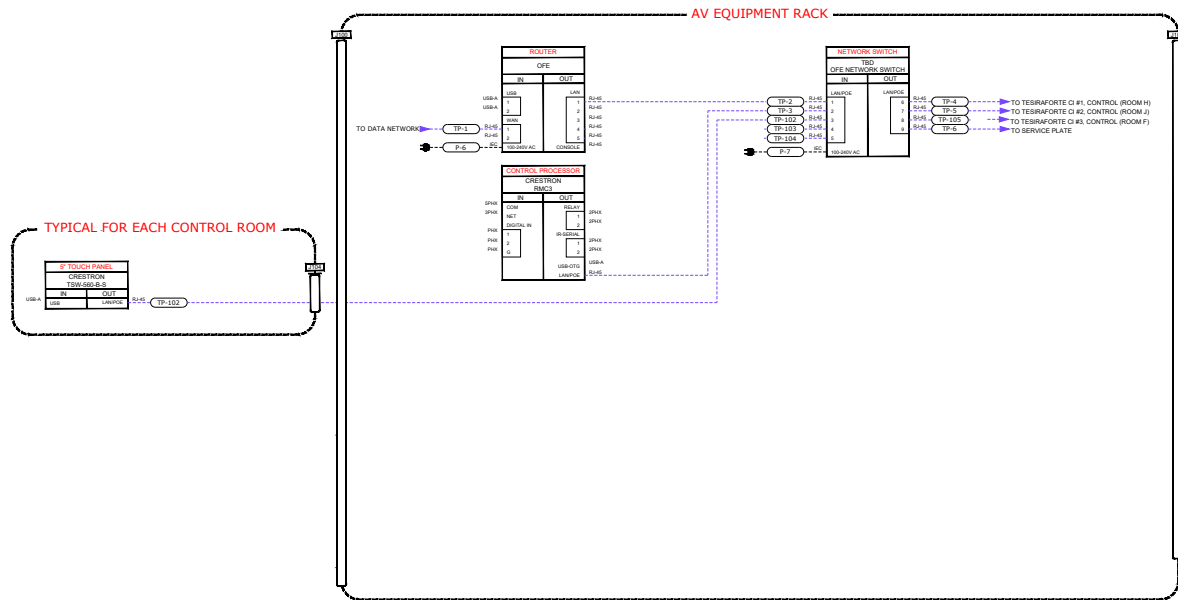
CABLE SCHEDULE				
CODE	TYPE	OUTER DIAMETER	CABLE FUNCTION	MANF. & CAT. #
R	55HCND20GAPL/75OHMBLACK	0.320"	Computer Video	WC 9R6BS8TRPLN
V	1 COND25GABR/PL/BLACK	0.198"	Analog Video	WEST PENN 6350
HD	PRE-MADE HDMI OR DISPLAY PORT CABLE	PER CABLE	HD DIGITAL SIGNAL	PER CABLE
DVI	PRE-MADE DVI CABLE	PER CABLE	HD DIGITAL SIGNAL	PER CABLE
M	2 COND20GA/SHDR/PL/WHITE	0.126"	Microphone Level Audio	WEST PENN 291
A	2 COND20GA/SHDR/PL/WHITE	0.126"	Line Level Audio	WEST PENN 292
SC	2 COND18GA/PL/WHITE	0.158"	70v Speaker Chain	WEST PENN 224
S	2 COND14GA/PL/WHITE	0.210"	Direct Couple Speaker	WEST PENN 226
C	8COND22GA/SHDR/PL/WHITE	0.163"	RS-232, IR, 4-pin Audio	WEST PENN 02404
TP	8COND(4P)23GACAT6/PL/WHITE	0.215"	Data/LAN	WEST PENN 4246
STP	8COND(4P)23GACAT6/SHDR/PL/WHITE	0.277"	HDBaseT	WEST PENN 4246F
DM	CRESTRON DIGITAL MEDIA SHIELDED CAT CABLE	.244"	Digital Media	CRESTRON CRESNET-NP
U	PRE-MADE USB CABLE	PER CABLE	HD	PER CABLE
P	EQUIPMENT SPECIFIC POWER LINE	PER CABLE	Power To Device	PER CABLE
D	4COND2P/SH18GA/DR/PL/TEAL/YELLOW	0.217"	Cresnet	CRESTRON CRESNET-NP
RF	1COND10GA/BR/PL/50 OHM/WHITE	0.349"	Long Distance Antenna Cable	WEST PENN 810



33 Edgemont Drive
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Simulation Center
Audio Installation

SYSTEMS INTEGRATION

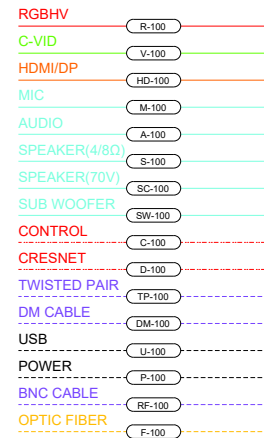


CONTROL SYSTEM FLOW DIAGRAM
TYPICAL FOR ALL OF THREE SIMULATION
ROOMS

A

SCALE: N.T.S.

AV CABLES LEGEND



CONTROL SYSTEM FLOW
DIAGRAM
TYPICAL OF THREE
ROOMS

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REV.	DATE	DESCRIPTION
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2	03-13-18	REVISED FOR REVIEW
3	03-13-18	REVISED FOR REVIEW
4	03-13-18	REVISED FOR REVIEW
5	03-13-18	REVISED FOR REVIEW
6	03-13-18	REVISED FOR REVIEW
7	03-13-18	REVISED FOR REVIEW
8	03-13-18	REVISED FOR REVIEW
9	03-13-18	REVISED FOR REVIEW

ACCT. MANAGER: XX

ENGINEER: XX

DRAFTER: RD

REVIEWER: CO

PROJECT MANAGER: XX

PROJECT NUMBER: XXXXXX

NATIVE SIZE: ARCH C (24x18)

ISSUED FOR: RFD COORDINATION

CONSTRUCTION AS-BUILT

DRAWING NUMBER: AV-04

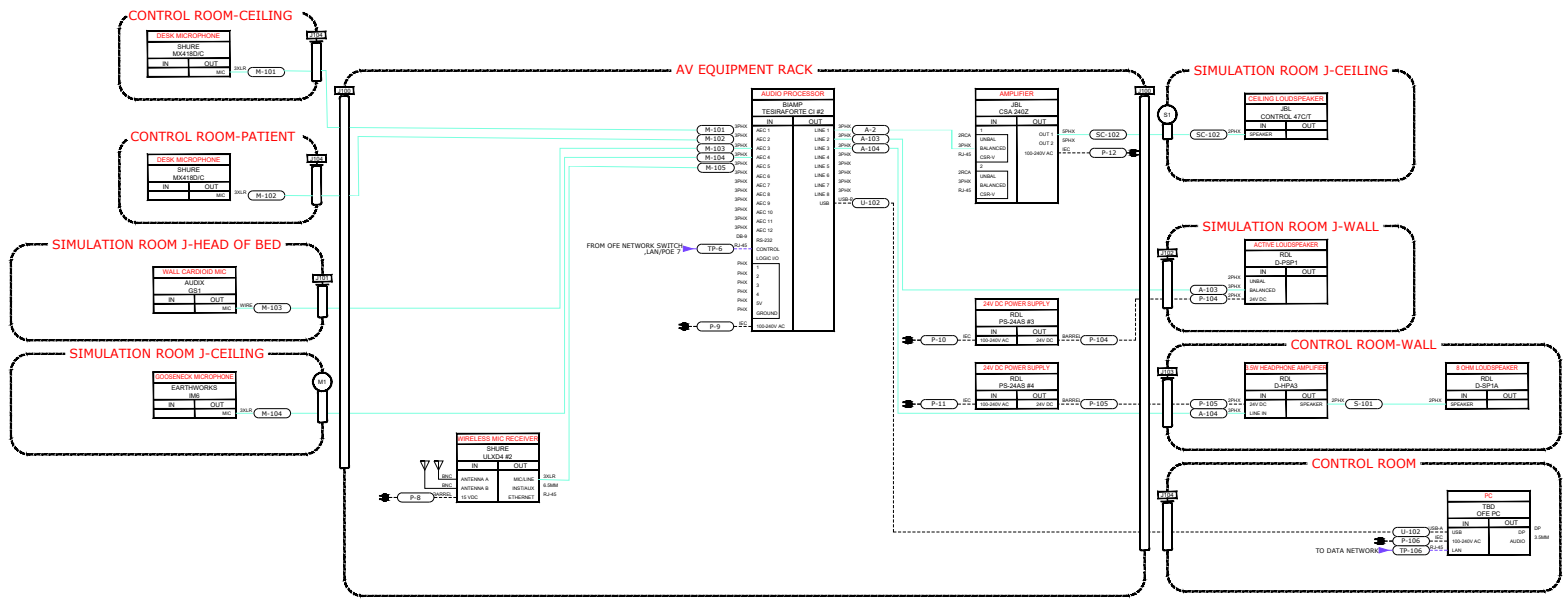
CODE	TYPE	OUTER DIAMETER	CABLE FUNCTION	MANF. & CAT. #
R	SSHCOND26GA/PL/75OHMBLACK	0.320"	Computer Video	WV SRGBSSTRPLN
V	1 COND25GA/BR/PL/BLACK	0.198"	Analog Video	WEST PENN 6350
HD	PRE-MADE HDMI OR DISPLAY PORT CABLE	PER CABLE	HD DIGITAL SIGNAL	PER CABLE
DVI	PRE-MADE DVI CABLE	PER CABLE	HD DIGITAL SIGNAL	PER CABLE
M	2 COND20GA/SH/DR/PL/WHITE	0.126"	Microphone Level Audio	WEST PENN 291
A	2 COND20GA/SH/DR/PL/WHITE	0.126"	Line Level Audio	WEST PENN 292
SC	2 COND18GA/PL/WHITE	0.158"	70v Speaker Chain	WEST PENN 224
S	2 COND14GA/PL/WHITE	0.210"	Direct Couple Speaker	WEST PENN 226
C	8COND22GA/SH/DR/PL/WHITE	0.163"	RS-232, IR, 4-pin Audio	WEST PENN D2404
TP	8COND4P23GA/CAT6/SH/DR/PL/WHITE	0.215"	Data/LAN	WEST PENN 4246
STP	8COND4P23GA/CAT6/SH/DR/PL/WHITE	0.277"	HDBaseT	WEST PENN 4246F
DM	CRESTRON DIGITAL MEDIA SHIELDED CAT CABLE	.244"	Digital Media	CRESTRON CRESNET-NP
U	PRE-MADE USB CABLE	PER CABLE	HID	PER CABLE
P	EQUIPMENT SPECIFIC POWER LINE	PER CABLE	Power To Device	PER CABLE
D	4COND2P/SH/18GA/DR/PL/TEAL&YELLOW	0.217"	Cresnet	CRESTRON CRESNET-NP
RF	1COND100GA/BR/PL/50 OHMWHITE	0.349"	Long Distance Antenna Cable	WEST PENN 810



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Presque Isle, ME 04769

PROJECT
Simulation Center
Audio Installation

SYSTEMS INTEGRATION



A AUDIO SYSTEM FLOW DIAGRAM
SCALE: N.T.S.

CABLE SCHEDULE				
CODE	TYPE	OUTER DIAMETER	CABLE FUNCTION	MANF. & CAT. #
R	55HCND20GAPL/75OHMBLACK	0.320"	Computer Video	WC 9RGS8STRPLN
V	1 COND25GABR/PL/BLACK	0.198"	Analog Video	WEST PENN 6350
HD	PRE-MADE HDMI OR DISPLAY PORT CABLE	PER CABLE	HD DIGITAL SIGNAL	PER CABLE
DVI	PRE-MADE DVI CABLE	PER CABLE	HD DIGITAL SIGNAL	PER CABLE
M	2 COND20GASHDR/PL/WHITE	0.126"	Microphone Level Audio	WEST PENN 224
A	2 COND20GASHDR/PL/WHITE	0.126"	Line Level Audio	WEST PENN 292
SC	2 COND18GAPL/WHITE	0.158"	70v Speaker Chain	WEST PENN 224
S	2 COND14GAPL/WHITE	0.210"	Direct Couple Speaker	WEST PENN 228
C	8COND22GASHDR/PL/WHITE	0.163"	RS-232, IR, 4-pin Audio	WEST PENN 02404
TP	8COND(4P)23GACAT6/SHDR/PL/WHITE	0.215"	Data/LAN	WEST PENN 4246
STP	8COND(4P)23GACAT6/SHDR/PL/WHITE	0.277"	HDBaseT	WEST PENN 4246F
DM	CRESTRON DIGITAL MEDIA SHIELDED CAT CABLE	.244"	Digital Media	CRESTRON CRESNET-NP
U	PRE-MADE USB CABLE	PER CABLE	HD	PER CABLE
P	EQUIPMENT SPECIFIC POWER LINE	PER CABLE	Power To Device	PER CABLE
D	4COND2P/SH18GA/DR/PL/TEAL/YELLOW	0.217"	Cresnet	CRESTRON CRESNET-NP
RF	1COND10GA/BR/PL/50 OHM/WHITE	0.349"	Long Distance Antenna Cable	WEST PENN 810

AV CABLES LEGEND

- RGBHV — R-100
- C-VID — V-100
- HDMI/DP — HD-100
- MIC — M-100
- AUDIO — A-100
- SPEAKER(4/8Ω) — S-100
- SPEAKER(70V) — SC-100
- SUB WOOFER — SW-100
- - - CONTROL — C-100
- - - CRESNET — D-100
- - - TWISTED PAIR — TP-100
- - - DM CABLE — DM-100
- - - USB — U-100
- - - POWER — P-100
- - - BNC CABLE — RF-100
- - - OPTIC FIBER — F-100

AUDIO SYSTEM FLOW
DIAGRAM
SIMULATION ROOM J

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REV.	DATE	DESCRIPTION
0	02-20-14	REVIEW
1	11-24-15	RFQ REVIEW
2	03-18-16	REQ
3	-	-
4	-	-
5	-	-
6	-	-

ACCT. MANAGER: XX
ENGINEER: XX
DRAFTER: RD
REVIEWER: CO
PROJECT MANAGER: XX
PROJECT NUMBER: XXXXXX
NATIVE SIZE: ARCH C (24x18)

ISSUED FOR:
 RFQ COORDINATION
 CONSTRUCTION AS-BUILT

DRAWING NUMBER:

AV-05

CLIENT



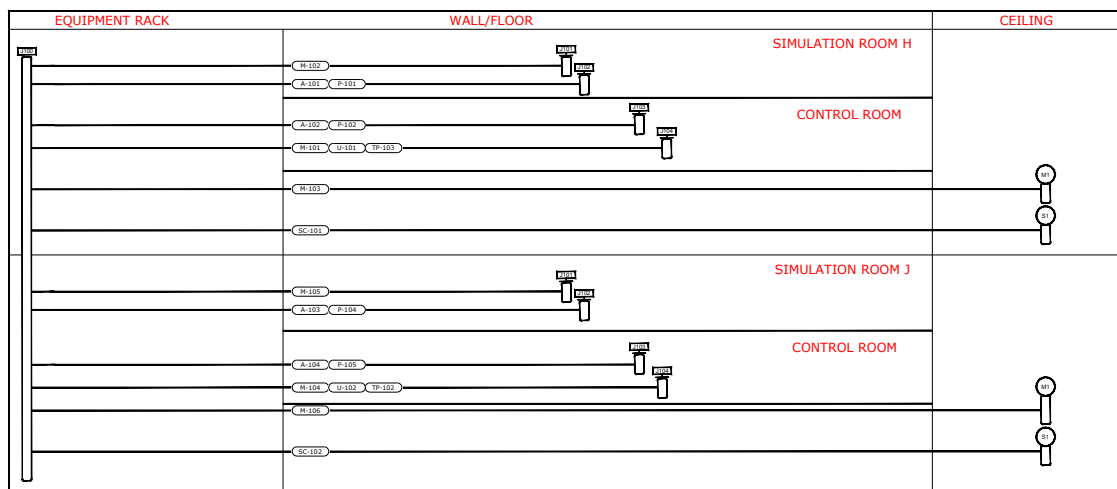
ADDRESS

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PROJECT

Simulation Center
Audio Installation

SYSTEMS INTEGRATION



A AUDIOVISUAL ELECTRICAL RISER DIAGRAM
SCALE: N.T.S.

AUDIO VISUAL
ELECTRICAL RISER, RACK
ELEVATION & POWER
RISER DIAGRAM
SIMULATION ROOM H & J

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REV.	DATE	DESCRIPTION
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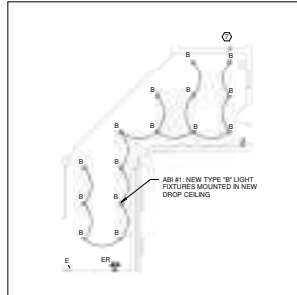
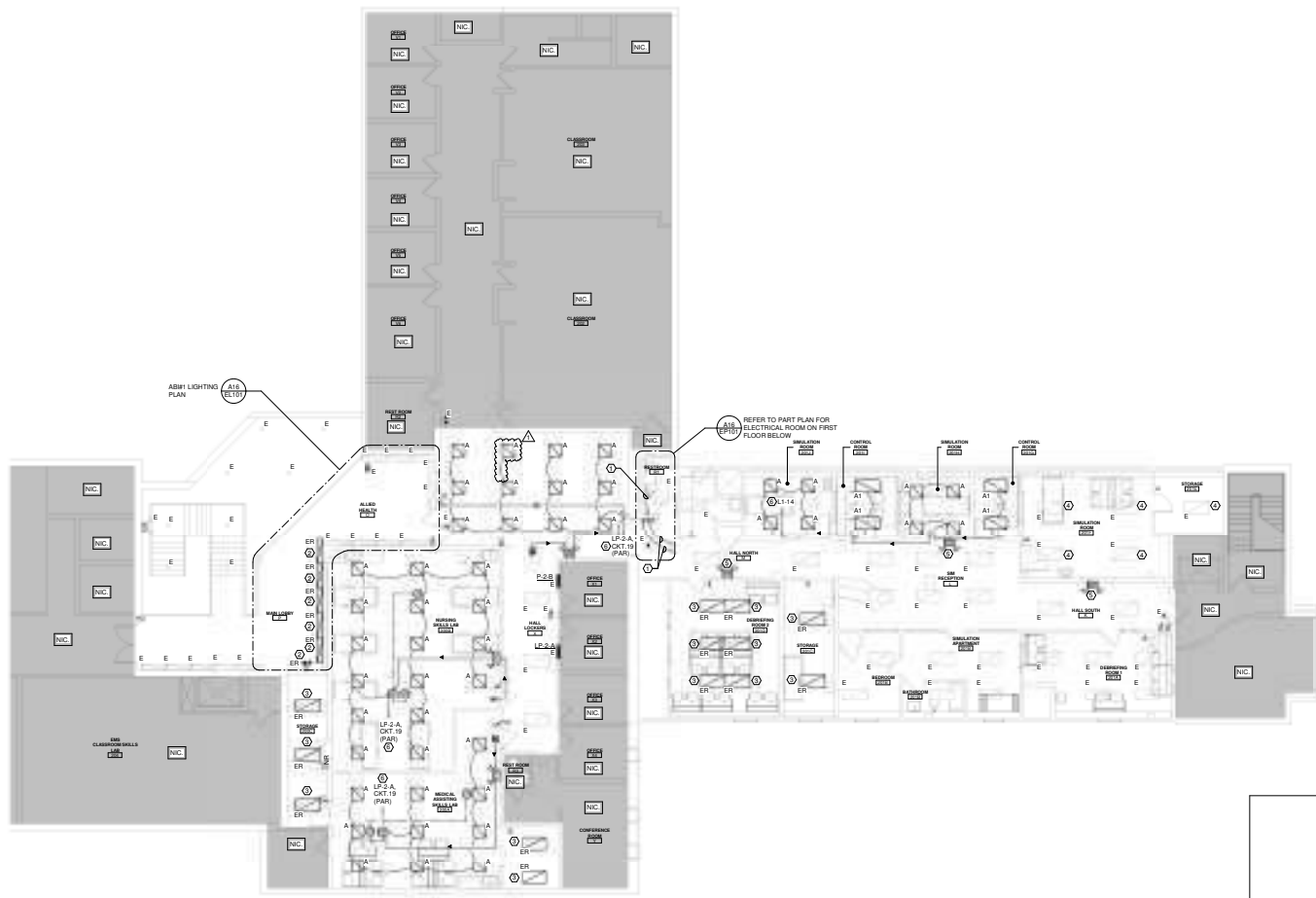
ACCT. MANAGER: **XX**
ENGINEER: **XX**
DRAFTER: **RD**
REVIEWER: **CO**
PROJECT MANAGER: **XX**
PROJECT NUMBER: **XXXXXX**
NATIVE SIZE: **ARCH C (24x18)**

ISSUED FOR:
 RFO COORDINATION
 CONSTRUCTION AS-BUILT

DRAWING NUMBER:

AV-06

- TECHNICAL NOTES:**
- 1. CONNECT NEW LIGHTING CONTROLS TO EXISTING LIGHTING CIRCUIT AND FIXTURES.
 - 2. RELOCATED LIGHTING FIXTURES. CONNECT TO EXISTING LIGHTING CIRCUIT.
 - 3. RELOCATED LIGHTING FIXTURES. RECONNECT TO ACCOMMODATE NEW CONTROLS. CONNECT TO EXISTING CIRCUIT.
 - 4. EXISTING LIGHTING FIXTURES TO REMAIN. RECONNECT TO ACCOMMODATE NEW CONTROLS AS SHOWN. CONNECT TO EXISTING CIRCUIT.
 - 5. CONNECT NEW EMERGENCY LIGHTING TO LOCAL EXISTING LIGHTING CIRCUIT.
 - 6. PROVIDE NEW 150A CIRCUIT BREAKER FOR NEW LIGHTING CIRCUIT AT EXISTING PANEL.
 - 7. NEW FIXTURES TO BE CONTROLLED BY EXISTING LIGHTING CONTROLS AND TO BE CONNECTED TO EXISTING LIGHTING CIRCUIT (TYP.).



APPENDIX #2	03.13.18	
DESIGNED FOR: BLD	03.23.18	
REV.	DESCRIPTION	DATE



WBRC
ARCHITECTS ENGINEERS
WWW.WBRC.AE.COM
BANGOR, MAINE 05701-4111
PORTLAND, MAINE 04101-4111
JANNA@WBRC.AE.COM

NMCC SIMULATION CENTER
PRESQUE ISLE, MAINE

SECOND FLOOR ELECTRICAL LIGHTING PLAN

PROJECT NO.	421900-EL101
PROJECT NO.	421900
SCALE	1/8" = 1'-0"
PROJECT MANAGER	SEB
DESIGNER	KRM
CHECKED BY	SJL

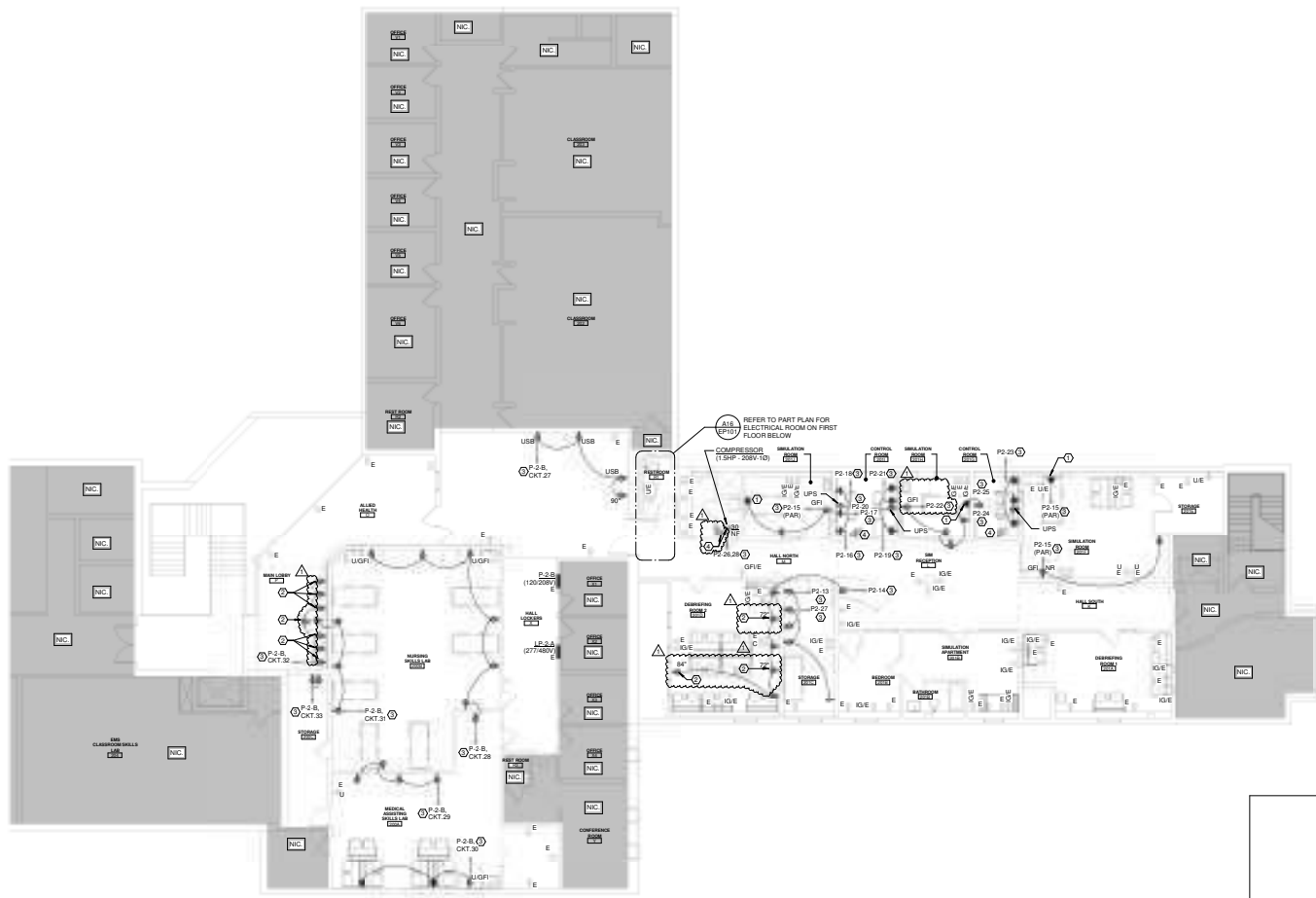
A1 SECOND FLOOR ELECTRICAL LIGHTING PLAN
1/8" = 1'-0"

A16 AB#1 LIGHTING PLAN
1/8" = 1'-0"

EL101

TECHNICAL NOTES:

- 1) PROVIDE POWER CONNECTION TO HEADWALL AS SHOWN. REFER TO ARCHITECTURAL INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION.
- 2) DUPLEX RECEPTACLE MOUNTED IN RECESSED IN FLOOR BEHIND EACH MONITOR. COORDINATE MOUNTING HEIGHT AND LOCATION WITH ARCHITECTURAL DETAILS.
- 3) RUN (S)12, (H)12G, IN 3/4" CONDUIT TO EXISTING RESPECTIVE PANELS AS INDICATED. PROVIDE 100A CIRCUIT BREAKER. CIRCUIT NUMBERS SHALL BE AS SHOWN.
- 4) COMPRESSOR: PROVIDE CONTACTOR FOR MANUAL ON/OFF OPERATION VIA A PILOT SWITCH LOCATED IN EACH CONTROL ROOM AND COMPRESSOR CLOSET. PILOT SWITCH SHALL BE MOUNTED ABOVE LIGHTING SWITCH AND SHALL BE LABELED "COMPRESSOR".



1	ADDENDUM #2	03.13.18
2	REVISION #10	03.23.18

REV.	DESCRIPTION	DATE
1	ADDENDUM #2	03.13.18
2	REVISION #10	03.23.18



WBRC
ARCHITECTS ENGINEERS
WWW.WBRC.AE.COM
BANGOR, MAINE 04710-4111
PORTLAND, MAINE 04103-4111
JANNA@WBRC.AE.COM

NMCC SIMULATION CENTER
PRESTIQUE ISLE, MAINE

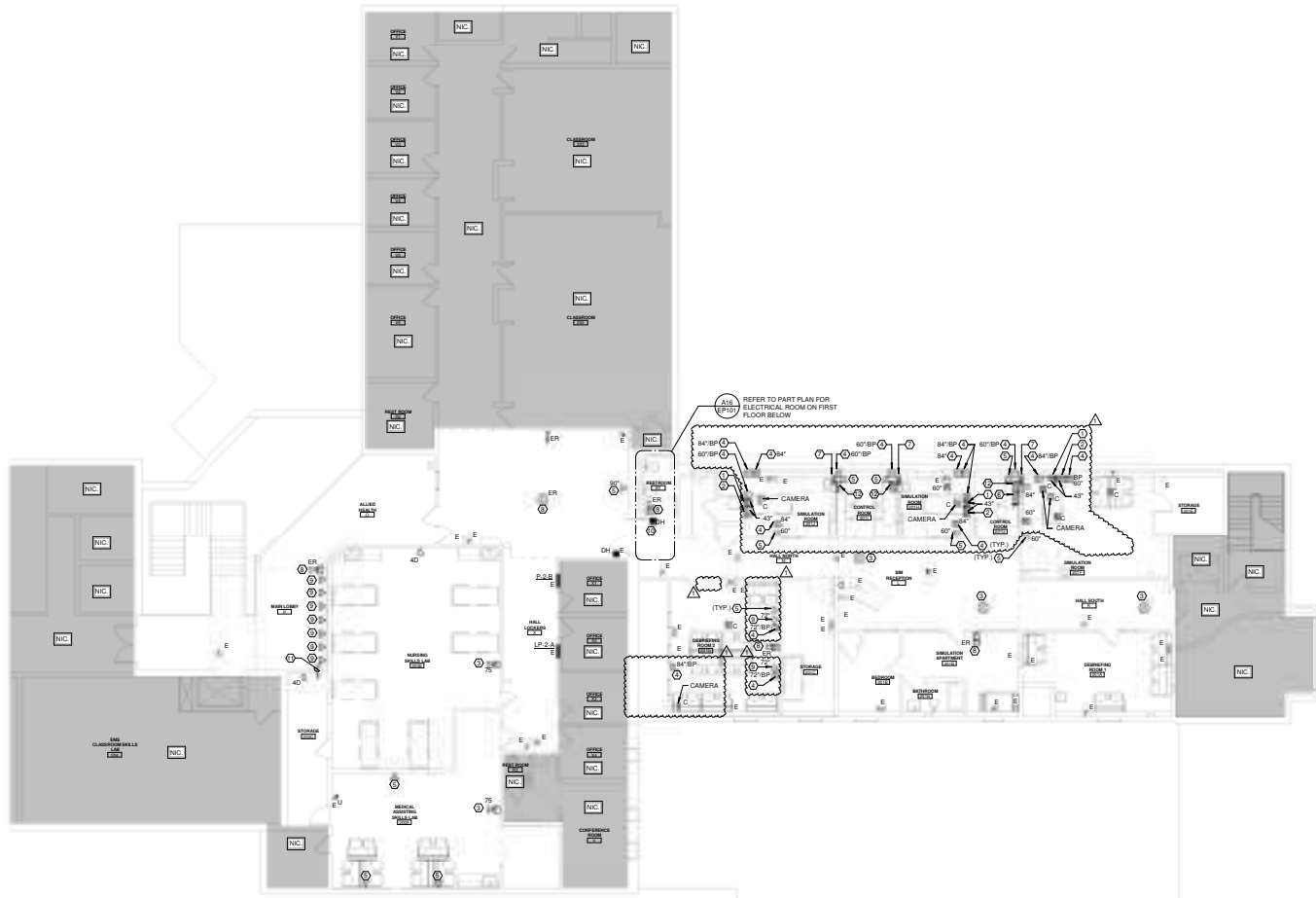
SECOND FLOOR ELECTRICAL POWER PLAN

PROJECT NO. 421900-EP101
SCALE: 1/8" = 1'-0"
PROJECT MANAGER: SEB
DESIGNER: KRM
CHECKED BY: SLL

3/13/2018 9:04:14 AM
U:\Projects\A0421900\REVISED\01 - NMCC CENTER - ELEC - Mechanical.dwg

A1	SECOND FLOOR ELECTRICAL POWER & SYSTEMS PLAN	A16	FIRST FLOOR ELEC. ROOM PLAN
1/8" = 1'-0"		1/8" = 1'-0"	

EP101



- GENERAL NOTES:**
- COORDINATE WITH OWNERS OUTLET DETAILS ON E-201 FOR ALL LOCATION, MOUNTING HEIGHT, CONDUIT REQUIREMENTS AND QUANTITY OF WALL AND CEILING BOXES.
 - CEILING MOUNTED BOXES FOR CAMERA SHALL BE SUPPORTED BY CROSSBAR, MOUNTED TO 1 BAR JOIST.
- TECHNICAL NOTES:**
- PROVIDE SINGLE GANG BOX AT 48" AFF FOR WALL MOUNTED MICROPHONE WITH 1" CONDUIT STUB UP TO CEILING.
 - PROVIDE SINGLE GANG BOX AT 48" AFF FOR WALL MOUNTED BREAKER WITH 1" CONDUIT STUB UP TO CEILING SPACE.
 - PROVIDE SMOKE DETECTOR AND/OR HORN STROBE DEVICE TO MATCH WITH EXISTING FIRE ALARM SYSTEM. EXTEND WIRING AND CONNECT TO EXISTING FA CIRCUITS.
 - PROVIDE SINGLE GANG BOX FOR AUDIO AND/OR VIDEO DROP WITH 1" CONDUIT TUB UP TO CEILING SPACE. MOUNTING HEIGHT AS INDICATED. CABLES BY OTHERS.
 - PROVIDE SINGLE GANG BOX FOR DATA WITH 1" CONDUIT STUB UP TO CEILING SPACE. CABLES BY OTHERS.
- NOTES:**
- PROVIDE 2x2" CONDUIT IN CONTROL ROOM STUB UP TO ABOVE CEILING SPACE. CONDUITS TO TERMINATE IN AN #2x4" WALL BOX WITH COVER PLATE WITH FEED-THROUGHS.
 - RELOCATED FIRE ALARM DEVICE. EXTEND WIRING AS REQUIRED AND RECONNECT.
 - PROVIDE RECESSED TV BOX, (1) BRUSH-THRU FEEDING FOR CABLES AND (1) DUXLEY RECEPTACLE BASED ON LEGRAND CAT NO. HT125WV1, LOCATED BEHIND EACH MONITOR (1) 1/2" CONDUIT STUB UP TO CEILING SPACE FOR TV CABLEING. COORDINATE WITH ARCHITECTURAL DETAIL FOR EXACT MOUNTING INFORMATION.
 - PROVIDE MAGNETIC DOOR HOLDER. EXTEND DROPT AND CONNECT TO EXISTING FIRE ALARM SYSTEM.
 - PROVIDE 1 1/2" SLEEVE ABOVE CEILING FOR BUNDLED CABLES.
 - PROVIDE 2x1 SINGLE GANG BOXES AT 48" AFF FOR BREAKER AND HEADPHONE CONNECTION WITH 1" CONDUIT TO ADJACENT #2x4" WALL BOX.

APPENDIX #2	03.13.18
ISSUED FOR BID	03.23.18

REV.	DESCRIPTION	DATE



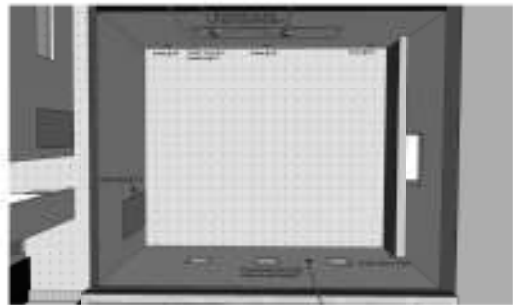
NMCC SIMULATION CENTER
PRESQUE ISLE, MAINE

SECOND FLOOR ELECTRICAL SYSTEMS PLAN

WBRC-DWG FILE: 421900.EY101	GRAPHIC SCALE: 1" = 10'
PROJECT NO: 421900	SCALE: 1/8" = 1'-0"
PROJECT MANAGER: KRM	DATE: 03/13/18
DRAWN BY: KRM	PROJECT NO: 421900
CHECKED BY: S.L.	DATE: 03/13/18

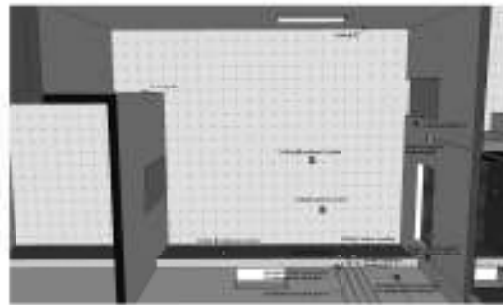
3/13/2018 10:47:47 AM
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 1/8" = 1'-0"

A1 SECOND FLOOR ELECTRICAL POWER & SYSTEMS PLAN



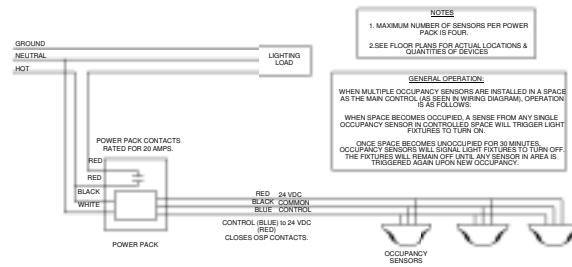
M1 DEBRIEFING ROOM 2-201D

NTS OWNER SUPPLIED DRAWING



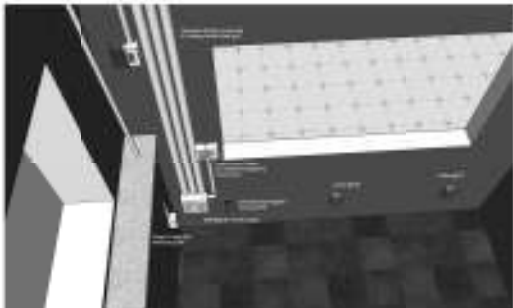
M6 SIMULATION ROOM-201F

NTS OWNER SUPPLIED DRAWING



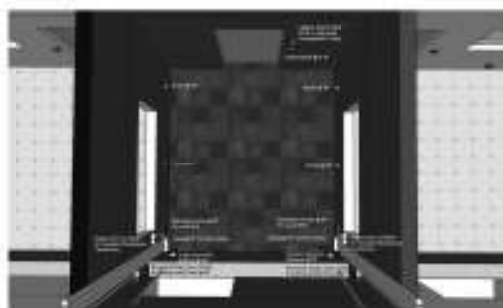
M12 MULTIPLE OCCUPANCY SENSOR WIRING DIAGRAM

NTS



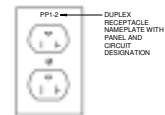
G1 CONTROL ROOM-201G2

NTS OWNER SUPPLIED DRAWING



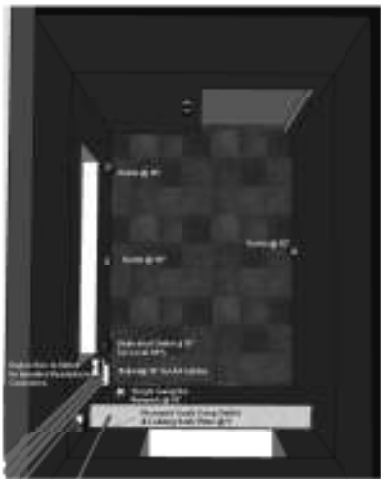
G6 CONTROL ROOM-2011

NTS OWNER SUPPLIED DRAWING



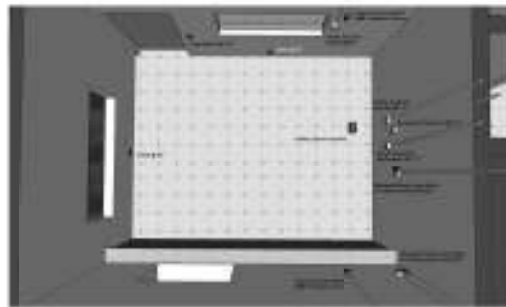
H15 TYP. ELECTRICAL LABELING

NTS



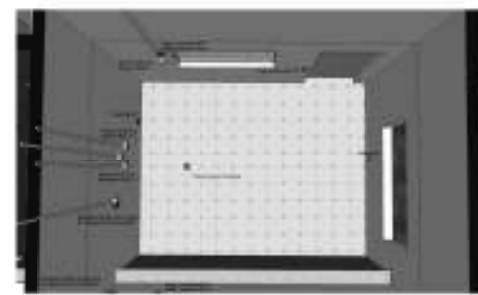
A1 CONTROL ROOM-201G

NTS OWNER SUPPLIED DRAWING



A6 SIMULATION ROOM-201J

NTS OWNER SUPPLIED DRAWING



A12 SIMULATION ROOM-201H

NTS OWNER SUPPLIED DRAWING

APPENDIX #2	03/13/18
REVISION	DATE

REV.	DESCRIPTION	DATE
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WBRC ARCHITECTS ENGINEERS
 WWW.WBRC-ENG.COM
 BANGOR, MAINE 04401-4111
 PORTLAND, MAINE 301-424-4111
 DANVERS, MAINE 866-252-0007

NMCC SIMULATION CENTER
 PREQUE ISLE, MAINE

ELECTRICAL DETAILS

SHEET TITLE	
WBRC-DWG FILE	421900-E-501
PROJECT NO.	421900
SCALE	NOT TO SCALE
PROJECT MANAGER	SEB
DRAWN BY	KRM
CHECKED BY	SL

E-501

14) RFP SCHEDULE

RFP Schedule	Date
Deadline for Questions	March 30, 2018
Response to Questions	April 3, 2018
RFP due	April 6, 2018
Winner selected and notified	April 13, 2018

- a) Questions concerning this RFP must be sent via email to jaclark@nmcc.edu, and courtesy copied to cperry@nmcc.edu. The subject of the e-mail should clearly state "Question RE Simulator Center Audio". All questions and responses will be posted on the College website at <http://www.nmcc.edu/about-nmcc/news-info/rfps/>. It is the College's intent to respond to all questions within 2 business days. It will be the vendors' responsibility to check this site for updates. Deadline for questions is March 30, 2018.

- b) NMCC intends to select and notify the winning bidder by the end of business April 13, 2018. The College reserves the right to change the RFP schedule allowing the time necessary to make the best decision for the college.

Bid Form / Signature Page

**Northern Maine Community College
Simulation Center Audio RFP 2018**

To: Northern Maine Community College – Purchasing
33 Edgemont Drive
Presque Isle, ME 04769

Having carefully examined:

Northern Maine Community College **Simulation Center Audio RFP 2018**
Request for Proposals, related documents/correspondence and tile specifications.

Installation and Warranty (including Travel and Lodging Cost)	\$
Project Management	\$
Commissioning	\$
Training	\$
Equipment	\$
Install Materials	\$
Shipping	\$
Project Total:	\$

Date	
Signature of Bidder's Representative	
Printed Name and Title	
Bidder's Firm's Title	
Bidder's Mailing Address	
(City/State/Zip)	
Bidder's Telephone	

This form/signature page must be included with proposal.