

HACC – CENTRAL PENNSYLVANIA’S COMMUNITY COLLEGE
Request for Proposal
08-03: SMART CLASSROOM INSTALLATION - MIDTOWN

Acknowledgement: Please acknowledge receipt of this RFP by completing the information requested below and faxing to 717/780-2325 upon receipt.
Please also include this page with your response.

Bidder Name:		Contact Name:	
Address (include city, state, zip):			
Phone:		Fax:	
		Email:	

Check One:	We will		Will Not		be responding to this RFP.
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If not responding, please explain briefly:	

Dates:

Date of Issue: **Friday – June 29, 2007**
 Submit Notice of Intent to Attend Mandatory Site Visit: **Monday – July 16, 2007 – by 11:00AM**
 Mandatory Site Visit: **Tuesday – July 17, 2007 – by 1:00PM**
 Deadline for Questions: **Monday – July 23, 2007 – by 11:30AM**
 Responses to the Questions: **Wednesday – July 25, 2007 – by 4:30PM**
 Submit Notice of Intent to Submit Proposal Due Date: **Monday – July 30, 2007 – by 2:00PM**
 PROPOSAL DUE DATE: **Tuesday – July 31, 2007 – by 11:30AM**
 Board Meeting: **Tuesday, September 4, 2007** (Please note: Final official bid results will be released after this date. All bidders who respond to the RFP will receive an award notification letter in the mail within one week of this date.)

HACC Information and Proposal Delivery:

Address: Purchasing Office/W130
 One HACC Drive
 Harrisburg PA 17110-2999
 Contact: Garry Crider, Director of Purchasing
 Or Sue Davis, Purchasing Technician
 Phone: 717/780-1164
 Fax: 717/780-2325

**Request For Proposal
Harrisburg Area Community College
#08-03**

for

SMART CLASSROOM INSTALLATION - MIDTOWN

for

HARRISBURG AREA COMMUNITY COLLEGE
Harrisburg, PA

DEADLINE TO SUBMIT PROPOSALS:

Tuesday – July 31, 2007 – 11:30AM

PROPOSALS MUST BE DELIVERED TO:
HARRISBURG AREA COMMUNITY COLLEGE
PURCHASING AND BUSINESS SERVICES
ONE HACC DR
HARRISBURG, PA 17110

For information concerning the RFP process, required format and the schedule of activities,
Please direct questions to:

Garry Crider, Director of Purchasing
Harrisburg Area Community College
Purchasing and Business Services
Harrisburg PA 17110
Telephone: 717-780-1164

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1. KEY DATES

Important dates including proposal deadlines are shown below. Formal addendum to this RFP will be issued to the Proposers notifying of any changes to these dates. Dates indicated are tentative and may be changed during the RFP process due to revision(s) of any part of the Request for Proposal because of questions from Proposers and/or additional information requested after the Proposal Opening.

ACTIVITY	DATE & TIME
a. Advertisement	Friday – June 29, 2007
b. Submit Notice of Intent to Attend the Mandatory Site Visit	Monday – July 16, 2007 By 11:00AM
c. Mandatory Site Visit	Tuesday – July 17, 2007 – 1:00PM
d. Deadline for Questions	Monday – July 23, 2007 – 11:30AM
e. Responses to the Questions	Wednesday – July 25, 2007 – 4:30PM
f. Submit Notice of Intent To Submit Proposal Due	Monday – July 30, 2007 By 2:00PM
g. Deadline to Submit Proposals	Tuesday – July 31, 2007 By 11:30AM
h. Award of Contract	After Tuesday – September 4, 2007 BOT Meeting

2. PROPOSAL SUBMISSION CONTENTS

Proposals must include all information required by the following sections:
(Reference Section VI)

- a. Cover Letter
- b. Description of Qualifications
- c. Contractor History
- d. Cost Proposal

3. DEFINITIONS

The following terminology shall be used throughout this Request for Proposal.

campus-Harrisburg Area Community College Campus, Harrisburg PA

contract-shall be used herein to refer to the purchase order(s) generated by the final award.

Contractor shall be used herein to refer to the Bidder receiving the final award.

Purchaser-Harrisburg Area Community College

response or proposal-as used herein shall be understood to mean the written proposal to provide services.

RFP-Request for Proposal

College-Harrisburg Area Community College, Harrisburg, PA

Bidder, Bidder, Contractor, Proposer, Supplier-as used herein shall be understood to mean the company, firm or corporation formally submitting a response to this RFP.

I. PROGRAM REQUIREMENTS

A. PURPOSE

Harrisburg Area Community College formally invites responses to provide information to be used in the decision to procure **7 complete new general classrooms to become Smart Classrooms**. The College reserves the right to accept or reject any and all proposals, to waive any irregularities or informalities in any proposal(s) and to award the contract in the best interests of the College.

All proposals are subject to the terms and conditions outlined herein. All responses shall be controlled by such terms and conditions and the submission of other terms and conditions and other documents as part of an Bidders response will be waived and have no effect either on this RFP or any contract that may be awarded resulting from this solicitation. The submission of any other terms and conditions by an Bidder may be grounds for rejection of the Bidders proposal. Bidder specifically agrees to the conditions set forth in the above paragraph by the signature of its authorized representative on the execution of proposal page contained herein.

B. PROJECT PRICE CHANGES

Any changes in project workscope that alters costs must have prior approval from the Vice President for Finance and College Resources.

Harrisburg Area Community College Director of Purchasing and Business Services shall be the authorized representative of the College for purposes of interpretation of contract requirements.

C. CONTRACT STANDARDS

After the Contract(s) are awarded (see award of Contract below) it will be the Contractor representative's responsibility to confirm with the College's authorized representatives, whether or not there is correct and sufficient funds available for the project through the issuance of a Purchase Order.

D. INVOICES AND STATEMENTS

Invoices must be descriptively itemized and must clearly indicate the applicable College Purchase Order number, including the Project Name and Location as well as the HACC account number, and must be submitted in duplicate at time of project completion before payment can be authorized.

A copy of the invoice statement is to be submitted to the "Bill to. . ." location identified per the Purchase Order.

Any invoices submitted without an approved college Purchase Order referenced is subject to being classified as a gift to the College.

E. FINAL INSPECTION AND PROJECT ACCEPTANCE

Determination of adequacy of performance project completion shall be the responsibility of the Project Manager. Neither the College nor the Project Manager nor any agent thereof on behalf of the College will supervise or be responsible for the actions of the Contractor's employees, subcontractors, or subcontractor's employees.

The Project Manager for this project shall be Robert Dudley, Manager of Instructional Technology - 717-780-2673.

F. PAYMENT

The College will make payment to the contractor from the approved invoice. Payment will be accomplished within thirty (30) days of project acceptance or invoicing, whichever is later, if the project is as specified and statements are in proper form.

Proposers may include in their response their ability to accept credit card payments and any additional costs related to providing this capability.

II REQUEST FOR PROPOSAL

Harrisburg Area Community College formally invites responses to this Request for Proposal to provide information to be used in the acquisition **to complete seven (7) new general classrooms to become Smart Classrooms.**

Interested parties are invited to submit proposals to Harrisburg Area Community College, Purchasing and Business Services, One HACC Drive, Harrisburg PA 17110. Proposals will be accepted until **11:30AM, Tuesday, July 31, 2007.**

This Request for Proposal contains the instructions governing the proposals to be submitted the materials to be included therein, requirements that must be met to be eligible for consideration, and general guidelines for submission of proposals.

A. WORKSCOPE

The Workscope for this Request for Proposal is defined in detail in Section VII: EXHIBITS / SPECIFICATIONS.

B. MANDATORY SITE VISIT

A MANDATORY SITE SURVEY is planned for as follows:

Tuesday, July 17, 2007 starting at 1:00PM at our Midtown Center, Main Lobby located at 3rd and Reily Street, Harrisburg, PA 17102.

The MANDATORY SITE SURVEY will include a tour of the locations to be serviced.

The Pre-proposal Conference/Site Visit is **MANDATORY** for all prospective Bidders who wish to have their proposals considered. Proposals from prospective Bidders not attending, or who are not present for the **entire** pre-proposal conference/site visit will not be considered for award.

C. RFP CLARIFICATION

Proposers may request an explanation of the intent or content of this RFP and clarification of procedures used for this procurement. No interpretation made to any Proposer as to the meaning of the RFP shall be binding on the College unless repeated in writing and distributed as an addendum by College Purchasing and Business Services Office. Official written responses to all relevant written questions will be mailed or faxed by Harrisburg Area Community College Purchasing and Business Services Office.

Requests for written explanation or clarification shall be made in writing and submitted in an envelope marked "Questions Related to RFP #08-03" to Harrisburg Area Community College, Purchasing and Business Services Office, ATTN: Garry Crider, Director of Purchasing, One

HACC Drive, Harrisburg PA 17110, or by Fax 717-780-2325. Email Questions are acceptable at cgrider@hacc.edu. Such requests must be received no later than Monday, July 23, 2007 by 11:30AM.

Failure of the Proposer to make appropriate inquires, evaluate any special conditions, or to verify requirements of this RFP shall not relieve the Contractor of the responsibility of fulfilling the contract in accordance with the terms of this RFP.

Communication concerning the Request for Proposal can only be with Garry Crider, Director of Purchasing (717-780-1164 or cgrider@hacc.edu). Oral communication with any other College employee, unit, department, or organization concerning this RFP is not binding on the College and shall in no way modify the RFP, or the obligation of the College or the Vendor, and may deem the Proposer's proposal void.

The college will evaluate a Proposer's "confidence in its own ability to perform" based on a given Proposer's willingness to provide the College with meaningful contractual assurances and remedies.

In summation of the College's general objectives regarding this Request for Proposal, the College has a sincere desire to award the transaction based on reliable information. In other words, Proposers to this RFP will have demonstrated their agreement that whether verbal or written, the company can perform to the requirements of this Proposal.

D. ADDENDA TO THE RFP

In the event that it becomes necessary to revise any part of this RFP, Harrisburg Area Community College Purchasing and Business Services Office will provide addenda in writing to the Proposers. No oral statements, explanations, or commitments by whomsoever made shall be of any effect except as the same are confirmed in writing by the College Purchasing and Business Services Office.

E. EQUAL EMPLOYMENT COMPLIANCE REQUIREMENT

Harrisburg Area Community College is committed to affirmative action in accordance with state and federal laws and regulations providing for equal employment opportunity. Harrisburg Area Community College will not contract with any firm that is not an equal opportunity employer.

In accordance with federal and state laws, the contractor agrees not to discriminate against any client, employee or applicant for employment or for services, because of race, color, national origin, sex, age, marital status, religion, creed, political belief, mental or physical disability, or status as Vietnam era or disabled veteran. The contractor will comply with the Americans with Disabilities Act of 1990.

F. NON DISCRIMINATION

Harrisburg Area Community College is committed to non discrimination and equal employment opportunity. Harrisburg Area Community College will not contract with any firm that is not an equal opportunity employer.

G. ACCEPTANCE OF PROPOSALS

The College reserves the right in awarding the contract to consider the competency, responsibility, and suitability of the Proposer, as well as the services provided. The College further reserves the right to accept or reject any or all proposals, to waive any irregularities or informalities, and to

award the contract in the best interest of the College. Neither the College nor any agent thereof on behalf of the College will be obligated in any way by any Proposer's response to this RFP.

III GENERAL CONTRACTUAL REQUIREMENTS

A. EXAMINATION OF CONTRACT CONDITIONS

It is the intent of Harrisburg Area Community College through this Request For Proposal and contract conditions contained herein, to establish to the greatest possible extent, complete clarity regarding the requirements of both parties to the contract resulting from the Request For Proposal.

Before submitting a proposal, the Contractor shall be thoroughly familiar with all contract conditions referred to in this document, and any addenda issued before the proposal submission date. Such addenda shall form a part of the RFP and shall be made a part of the contract. It shall be the Contractor's responsibility to ascertain that the proposal includes all addenda issued prior to the proposal submission date.

By submitting a response to this RFP contractor represents that:

- 1) The contractor has read and understands the Contract specifications and conditions.
- 2) The contractor will perform the work in compliance with Commonwealth of Pennsylvania, Federal and Local Laws, Regulations, Standards, Ordinances and Codes.

B. ASSIGNMENT OR TRANSFER

This contract may not be assigned or transferred in whole or in part, without the written permission of Harrisburg Area Community College Purchasing and Business Services Office, nor may any rights to any monies due or to become due hereunder be assigned.

C. INDEPENDENT CONTRACTOR

The Contractor is an independent contractor providing services for Harrisburg Area Community College.

D. INSURANCE

The Contractor shall provide insurance coverage as required by this section. Certificates of insurance coverage shall be filed with Harrisburg Area Community College Purchasing and Business Services Office within thirty (30) days of notice of award of contract. In no instance may any work commence prior to receipt of the certificates. A signed contract issued as notice of award shall not be considered valid until Harrisburg Area Community College Purchasing and Business Services has received the certificates.

The Contractor shall maintain the following minimum insurance:

1. Workers' Compensation Insurance Coverage. The Contractor shall provide Harrisburg Area Community College Purchasing Department with proof of Workers' Compensation Coverage in accordance with Pennsylvania statutory requirements
2. Comprehensive General Liability insurance, including automobile liability, personal injury and property damage with limits of not less than \$1,000,000 each claim and a combined single limit of not less than \$2,000,000 per occurrence.

E. INDEMNIFICATION

The Contractor shall hold Harrisburg Area Community College harmless from any liability, costs, or penalties in any way resulting from the performance of the services related to this contract or from the conduct or actions of any persons provided by the Contractor for performance of this agreement and will indemnify the College for any costs of defense paid because of actions of the Contractor or its employees in the performance of this agreement.

F. CONTRACT MANAGER

Harrisburg Area Community College Purchasing and Business Services shall be the authorized representative of the College for purposes of interpretation of contract requirements. Determination of adequacy of performance shall be the responsibility of the Project Manager. Neither the College nor the Project Manager nor any agent thereof on behalf of the College will supervise or be responsible for the actions of the Contractor's employees, subcontractors, or subcontractor's employees.

G. TERM OF CONTRACT AND INSTALLATION

1. Installation of cables and piping must be the first equipment to be installed in all locations if possible. A ceiling AC “whip” has been provided in all Smart Classrooms. “Finished” ceiling electric will be provided after piping, cables and projectors have been installed; hopefully while the audiovisual installation vendor is still on site. Dates will be flexible. Key dates are:

- a. August 20, 2007 Classes begin
- b. September 3, 2007 – Labor day holiday (College Closed)

IV RIGHTS AND REMEDIES

A. ARBITRATION

All disputes between the parties to this agreement arising out of or in connection with the contract documents shall be submitted for arbitration. If arbitration is selected by the College, the College shall also select the number of arbitrators and the manner of arbitration, which shall be either: (1) arbitration according to the rules of the American Arbitration Association; or (2) referral to one of more arbitrators mutually agreed upon by the parties.

When a written decision of the College states that (1) the decision is final but subject to arbitration and (2) a demand for arbitration of a claim covered by such decision must be made within thirty (30) days after the date on which the party making the demand received the final written decision, then failure to demand arbitration within said thirty (30) days' period shall result in the College's decision becoming final and binding upon the College and Contractor.

In responding to a claim brought by a Contractor, the College shall have a minimum of forty-five (45) days in which to respond to a revised claim prior to the arbitration hearing.

B. LITIGATION

In the event that any term of this contract is the subject of litigation, it is hereby agreed that the parties in that litigation shall pay their own attorney's fees and court costs incurred including court costs and attorney's fees incurred in appellate proceedings.

C. VENUE AND JURISDICTION

The terms and conditions herein constitute the sole and entire agreement among parties and the laws of the State of Pennsylvania shall govern any disputes. The Dauphin County Court of Common Pleas shall have exclusive jurisdiction over any and all litigation arising from the terms of this agreement.

D. RIGHT TO AUDIT

The College and appropriate designated representatives reserve the right to audit the College account records and other financial records of the Contractor, as they pertain to the College. Such audits, shall be performed by auditors selected by the College only if deemed necessary by the College.

E. FORCE MAJEURE

Neither party to this Agreement will be liable to the other for any failure or delay in performance under this Agreement due circumstances beyond its reasonable control including, without limitation, Acts of God, accident, labor disruption, acts, omissions and defaults of third parties, and official governmental and judicial action not the fault of the party failing or delaying in performance.

V PROPOSAL SUBMISSION

To receive consideration, proposals shall be made in agreement with the instructions as stated in this RFP, and such proposals and awards made therein shall be subject to all of the terms and conditions hereof:

A. ECONOMY OF PREPARATION

Proposals should be prepared simply and economically, providing a straightforward, concise description of the Proposer's capabilities to satisfy the requirements of the RFP. Special bindings, colored displays, promotional materials, etc., are not desired. Emphasis should be on completeness and clarity of content.

B. INCURRED COST

The College is not liable for any costs incurred by the Proposer in the preparation and presentation of their proposals.

C. SIGNATORIES

The proposal shall include information as requested throughout the RFP. The signature of all persons authenticating the proposal shall be printed and written in longhand in the designated area on page one (1) of the RFP. The proposal shall be signed with ink or indelible pencil.

D. MULTIPLE PROPOSALS

A Contractor may submit more than one (1) proposal. At least one of the proposals must be complete and comply with all stated instructions. However, additional proposals may be in an abbreviated form following the same format, but providing only that information that differs in any way from that contained in the complete proposal.

E. PROPOSAL DEADLINE

To be considered for selection, proposals shall arrive at Harrisburg Area Community College Purchasing and Business Services Office, One HACC Drive, Harrisburg, PA, 17110, by **11:30AM** on or before **Tuesday, July 31, 2007**. Proposals must be in a sealed container, clearly marked "**Proposal RFP # 08-03 – SMART CLASSROOM INSTALLATION - MIDTOWN**".

The mailing of proposals shall allow for normal mail delivery time to ensure timely receipt of their proposals by Harrisburg Area Community College Purchasing and Business Services Office. Proposals arriving after the deadline will not be considered. All proposals become the property of the College.

F. NUMBER OF COPIES AND MAILING OF PROPOSAL

Two (2) copies of the General Proposal will be submitted in a sealed container clearly marked with the name of the Proposer and labeled "SMART CLASSROOM INSTALLATION - MIDTOWN - **RFP #08-03**". One (1) of the copies shall be marked "Master Copy" and will contain original signatures in all locations requiring a Contractor signature. The remaining copies do not require original signatures.

The proposals must be addressed as follows:

Proposal **RFP # 08-03**
Harrisburg Area Community College
Purchasing and Business Services
ATTN: Garry Crider, Director of Purchasing
One HACC Drive
Harrisburg PA 17110

VI FORMAT FOR PROPOSAL

A. INTRODUCTION

Any term or condition stated in this RFP document shall be considered accepted by the Contractor unless specifically objected to by the Contractor. The College may accept or reject Contractor's alternative proposals to the terms of this RFP. A proposal may be rejected if it is incomplete or conditional.

B. COVER LETTER

Each proposal will have a Cover Letter on the letterhead of the company or organization submitting the proposal. The Cover Letter must include the following information:

1. Briefly summarize the Contractor's ability to provide the services specified in the RFP.
2. A Statement that the Contractor is willing to perform the work described in the RFP and to enter into a contract with Harrisburg Area Community College to perform the work. The

Cover Letter must be signed by a person having the authority to commit the Contractor to a contract.

3. Information should include: the company name, federal Taxpayer Identification Number, address, telephone number, FAX number, name, and title of the person to contact, name(s) of principal(s) assigned to negotiate for Contractor (if any), and the name of the individual or company who will manage the project.
4. Certification as to correctness of the proposal and the authority of person signing to bind Contractor.
5. Acknowledgment and/or exceptions taken to the proposed terms and conditions.

C. DESCRIPTION OF QUALIFICATIONS

Each proposal must contain a description of the Contractor's qualifications to perform the services specified in this RFP.

D. CONTRACTOR HISTORY

Contractor shall provide a narrative demonstrating an established, successful track record of past performance in providing goods and services closely related to the requirements specified in this RFP. The narrative shall include three (3) reference accounts showing experience in receiving contracts for the delivery of services similar to the one proposed. References must include the following:

- 1) Name of the firm or corporation.
- 2) The dates of each contract or agreement under which the Contractor provided such services.
- 3) The names, address, and telephone number of a contract person for each contract.
- 4) A brief description of the related projects.

E. COST PROPOSAL

See Section: VIII. COST PROPOSAL SHEET for 08-03: SMART CLASSROOM INSTALLATION - MIDTOWN

VII EVALUATION

A. PROPOSAL PROCESS

1. After the date established for receipt of proposals, a register of proposals shall be prepared which shall include the name of each Proposer. The register of proposals shall be open to public inspection only after award of the contract. No additional proposals will be accepted after the opening date.
2. The evaluation shall be based on the evaluation factors set forth in this request for proposal. Factors not specified in the request for proposal shall not be considered.
3. For the purpose of conducting discussions, proposals shall be initially classified as:
 - (a) responsive; or
 - (b) non-responsive.

4. Discussions may be held with one or more Proposers to:
 - (a) promote understanding of the College's requirements and the Proposers' proposals; and
 - (b) facilitate arriving at a contract that will be most advantageous to the College taking into consideration all factors set forth in the request for proposals.
 - (c) Discussions may include oral presentations, interviews, demonstrations, responses to specific questions, modifications, and negotiations. Proposers shall not be informed of their rank at the time of discussions. The College reserves the right to visit and inspect other sites of the potential Contractor.
 - (d) Proposers must be prepared to send qualified personnel to discuss technical and contractual aspects of the proposal.
 - (e) One or more Proposers may be provided an opportunity to submit a "best and final" offer.
5. References and the credit and financial responsibility of the Proposers may be verified as appropriate.

B. EVALUATION CRITERIA

The selection of the Contractor will be made after evaluating proposals, based upon the responsiveness of the proposals to the goals and objectives of the College's needs.

VIII. AWARD

The College will review all proposals. The College reserves the right to cancel the selection process or the negotiations when a selection is made, or at anytime prior to entering into a formal written agreement with the Contractor.

The College intends to execute a contract with the Contractor(s) submitting the proposal which the College determines to best meet the College's requirements. The College will be the sole judge of the acceptance of any and all proposals.

In awarding the contract, the College may take into consideration: the references, experience, responsibility, reputation, financial standing of the respondent, and the ability of the Contractor to provide an advantageous time schedule for providing service. The inability of any respondent to meet the requirements may be cause for rejection of his/her proposal.

After selection approval by the colleges Board of Trustees, Harrisburg Area Community College Purchasing and Business Services office will cause a contract/purchase order to be prepared for signatures by both parties. A contract(s) will be issued to the responsible Contractor(s) whose proposal is the most advantageous to the College, taking into consideration all evaluation factors. No other evaluation criteria, other than that outlined in this proposal, will be used.

IX EXHIBITS / SPECIFICATIONS FOR 08-03 SMART CLASSROOM INSTALLATION - MIDTOWN

IX. EXHIBITS / SPECIFICATIONS

(Guidelines)

Installation Services

PREVAILING WAGES MUST BE USED

There are 7 complete new classrooms to become Smart Classrooms. Most are stand-alone classrooms or labs. One is a classroom inside a vocational type “labs” The following criteria, outlined below, will apply to the entire project.

Overall there are some criteria that must be followed with respect to materials used (cable, plates etc).

1. Vendor will supply and install all cable used for connection within equipment rack and/or to data projector.
2. Vendor will also supply all data projector and LCD TV mounting hardware (including Chief RPA-570) and any additional misc. hardware required to complete the work specified below.
3. All cable used for computer display must be computer XGA rated.
4. All cable that will run in walls and/or drop ceilings must be plenum rated.
5. Vendor must be familiar with installations using video over twisted pair. TIA 568A protocol must be followed.
6. Vendor must use Extron enhanced Skew-Free UTP23SF-4P for twisted pair runs.
7. Rack mounted and wall plates for the Smart classrooms must be metal, not plastic. Each plate should be black with engraved labels and meet the requirements as specified below and must be approved by Robert Dudley at a time prior to vendor manufacturing, placing order and installation. Rack-mounted plates should be 1 rack space only. Wall plates should be 2-gang unless otherwise specified. Diagrams of the proposed plates will be distributed at the site survey.
8. All cables must be secured to the structure in the drop ceiling space where applicable. Any area where no drop ceiling is present, all cable must be enclosed in white conduit or cloth wrap; whichever seems best in that environment. Environments will vary from room to room. All cables must also be neat and hidden where possible in the room. **ALL** exposed cables in the room should be contained in cloth wrap; large enough that no cables shall show through. No cables shall be actually visible except for the headshell.
9. Vendor shall take possession of the Raxxess equipment racks, sheleves, drawers, Extron IN-1508, Rack-mounted power strip, TOA amps, modules in advance of installation. Vendor shall assemble and populate racks off site and according to HACC specifications provided when the vendor is selected. Exact equipment “turn-over” date will be determined by HACC based on equipment 100%

- received. HACC ITC Staff shall work with vendor and construction contractors to determine appropriate delivery to site and/or on-site storage.
10. Vendor shall take possession of the Smith System furniture in advance of installation. Vendor shall assemble furniture off site and according to HACC specifications provided when the vendor is selected. CPU holders are to be mounted underneath the furniture top on the equipment rack side in each room. Again, exact equipment "turn-over" date will be determined by HACC based on equipment 100% received. HACC shall work with vendor and construction contractors to determine appropriate delivery to site and/or on-site storage.
 11. HACC ITC Staff will deliver and prepare Gyration suites, VCRs, Sympodiums, document cameras, speakers, screens etc to site with respect to building security.
 12. HACC ITC Staff shall be responsible for preparing network access and A/V LAN for the MLC as well as PC delivery and software in each room.
 13. Surface mount wall raceway shall not be used. Conduit is already in place.
 14. Vendor will connect cables to HACC provided equipment and test all cables for operation and quality after termination. Each cable run shall be a continuous cable with no inline joints or adapters.
 15. Vendor will not be given extra payments for conditions that can be determined in advance of bid by examining documents or job site. It is strongly suggested that vendors take pictures, measurements, detailed notes etc during mandatory site survey.
 16. Vendor must be a factory authorized reseller and/or dealer for ALL of the equipment specified under this contract.
 17. Vendor will supply and install all cable to be used on the project
 18. It is preferred that the vendor be an ICIA certified contractor with at least 20% of staff CTS or above.
 19. Actual on site installation crew should have a minimum of three years in the industry and carry some level of certification stating such. All on site installation crew must be a direct employee of the vendor awarded this contract. No subcontractors or third parties may be used. There will be no exceptions to #16 – #18 except as stated in advance and included clearly in writing in the submitted bid proposal.
 20. Vendor will check data projectors for vibration and compensate (including supplying materials to correct) where necessary.
 21. Vendor will secure audio speaker brackets (where applicable) to ceiling and mount speakers. In areas of high ceilings and/or no drop ceiling, vendor shall supply **ALL** appropriate mounting hardware. All mounting hardware visible from the floor shall be white. Speaker placement in each room should be for the best sound result. Vendor recommendations for sound coverage in each room (ie: quantity of speakers) that varies from that included in this bid, should be noted clearly in their proposal. Note: Due to the short timeline, equipment has already been purchased. Any vendor-proposed *increases* in the speaker quantities should be the responsibility of the vendor to supply and should be clearly noted in the proposal. However and each specific variation from the bid must also include technical reasons based on sound engineering.

22. Vendor shall terminate all cables so they may be used with the proper equipment as per individual room instructions below and/or attachments.
23. Vendor shall label all amp inputs on the front above the knobs with large white letters on black background.
24. Any repair necessary to HACC property from damage caused by the vendor during installation shall be the responsibility of the vendor. This shall include structure, surface or equipment damage. HACC will be responsible for matching paint color where applicable. Further, HACC will make every effort to acquire matching paint for any conduit supplied by the A/V installation vendor. These requirements should be clearly stated in the proposal.
25. Vendor shall be responsible for trash removal daily from the jobsite. This refers to trash generated only by work covered by this RFP. This includes trash generated from boxes provide by HACC ITC staff. However, if HACC ITC Staff unpacked it, we will remove it. If the Vendor unpacked it, they will remove it. Note: classes will already be in session and installation work will be performed before and after those classes daily. Equipment and materials may be left in rooms from day to day (see #28 below) but must be kept neat and out of the way as much as possible until the room is completed. Once the room is determined to be “complete and functional” by HACC ITC Staff, all tools and misc. materials must be removed.
26. All manuals and misc unused parts shall be removed from the site daily, held and given to Robert Dudley at the end of the project.
27. While HACC will try to maintain a secure environment, we encourage the audiovisual vendor to remove, on a daily basis; all tools, cables and anything involved in the audiovisual installation of the project. HACC will not be responsible for lost or stolen property.
28. This project will include one year of support. This includes cables, termination and all misc. parts supplied by vendor. This also includes Extron support as it related to this installation. Vendor shall be on site within 24 hours for service calls as needed related to installation on this project. Please note: This assumes HACC technical staff have determined that a given problem is with cabling, installation, etc.
29. Vendor shall keep in mind when calculating projector mounting in terms of distance from the screen....In the future, due to technology enhancements, HACC may choose to change from 4:3 to widescreen format. Projectors should be able to accommodate those future changes without the need for projector relocation and new cable being installed.
30. **Vendor shall calculate into this bid proposal any and all additional equipment, cables etc related to the functionality of this project not specifically discussed herein and make specific notation(s) on the bid proposal. Exceptions would be equipment discussed and itemized during the on-site survey which will added to any addendum to this bid.**
31. Because fall classes will already be in session when the A/V installation will begin, vendor should keep in mind to calculate labor for work to be done on off hours such as late afternoons, weekends etc. HACC ITC staff will make every effort to provide selected vendor with room schedules for classrooms on this project as well as adjacent rooms. However, ultimately, vendor shall be considerate and keep disruptive noise such as hammering and drilling to an absolute minimum while nearby classes are in session. Noise during class

changes, however is acceptable. Again vendor shall refer to room schedules as many classes may run at non-regular times.

32. HACC ITC Staff will assist vendor with key and/or electronic card access with HACC Security. It is the responsibility of the vendor to work out the specific daily method of key and/or card(s) pick and returns with the HACC Security team either on site or at Wildwood Campus.
33. Installation of cables and piping must be the first equipment to be installed in all locations if possible. A ceiling AC “whip” has been provided in all Smart Classrooms. “Finished” ceiling electric will be provided after piping, cables and projectors have been installed; hopefully while the audiovisual installation vendor is still on site. Dates will be flexible. Key dates are:
 - a. August 20, 2007 Classes begin
 - b. September 3, 2007 – Labor day holiday (College Closed)

(Exhibit A)
Installation Services

New Smart Classrooms

Location #1 Room 004b

This room is a general classroom. Surface mount wall raceway may not be used; conduit is already in place. However cables should still be hidden as much as possible. Cloth split loom shall be used for exposed cables between wall plate and equipment rack.

The audio speakers are to be ceiling mounted spaced across the room for best sound. The ceiling in this room is ceiling is a full drop ceiling and 8’ high. The wall screen will be a 65” x 116” HDTV format. The instructor station and equipment rack will be located in the corner opposite the door (diagrams will be distributed at the site survey).

The following equipment is being purchased separately and supplied by HACC will be the following:

The following **specific** equipment is being supplied by the vendor:

Item	Manufacturer	Model	Quantity
DVD/VHS Combo	Zenith	ZDX-613	1
DLP Projector	Panasonic	PT-D3500U	1
Document Camera	Samsung	SDP-900DXA	1
Speakers	JBL	CONTROL 26CT	7
Amp	TOA	A-912-MK2	1
Mic module for amp	TOA	M01F	2
Line module for amp	TOA	U-03R	4
Instructor Station	Smith System	26644	1
Equipment rack with casters	Raxxess	KAR18-28	1
Rear Door	Raxxess	KARD-18R	1
Front Door	Raxxess	KARD-18PLX	1
Universal Shelf (for VCR)	Raxxess	UTS-2	1
3-Space drawer	Raxxess	SDR-3	1
Rack mounted power strip	TrippLite	PDU-1220	1
Wireless Keyboard and Mouse Suite	Gyration	GP6105CKM	1
Symposium	Smart Tech	ID-350	1
65" x 116" HDTV Format Wall Screen	DaLite	Model C (79042)	1
Screen brackets (pair)	DaLite	Number 6	1 pair
IPL-T-S2 IP box	Extron	60-544-81	1
MLC 226 IP Controller	Extron	60-600-82	1
IN-1508 Switcher	Extron	60-569-01	1
Desktop Gang Box	Extron	60-645-02	1
MLM 226 7GWP frame	Extron	70-340-02	1
CM-3BLB 3-button AAP	Extron	70-493-02	1
IRCM-DV+ VCR controller	Extron	70-220-02	1
VGA Distribution amp (P/2 DA2 Plus)	Extron	60-046-02	1

Installation shall include:

Item	Manufacturer	Model	Quantity
Projector Mount	Chief	RPA-570	1
1-Space Rack plate	Custom Made	??	1
2-gang wall plate	Custom Made	??	1
Special rear rack plate	Custom Made	??	1

1. Mounting data projector including mounting hardware. Please setup projector and Extron IN-1508 for 4:3 1024x768. The image will not fill the screen. However the hope is in the future, the projector and screen placement should be already such that the image can be wide format and would fill the screen.
2. Custom gang plate to be rack mounted and including the following:

VGA {(HD 15 (f to f) feed-thru} Connect{(HD 15 (m to m)) to Extron IN-1508 (input #7)

XLR (f) to XLR (m) – (feed-thru) Connect XLR (f) to XLR (m) to TOA amp (input #2)
 Composite video {BNC (f to f)} Connect BNC (m to m) to Extron IN-1508 (input #2)
 R and L audio {2-RCA (f to f) feed-thru} Connect {2-RCA (m to m) to Extron IN-1508 (audio input #2)
 PC audio {mini (f) stereo to rear solder} Connect rear solder to {2-RCA (m)} Extron IN-1508 audio (input #7)

3. Cables needed to connect the equipment at the instructor station to the data projector and/or equipment rack including:

VGA {(HD 15 (m to m))} from PC (Extron P/2 DA2) to Extron IN-1508 (input #6)
 PC audio out {3.5mm (m to m) stereo} to Extron IN-1508 (audio input #6)
 RCA {2-RCA (m to m)} from DVD/VHS combo (“DVD out”) to Extron IN-1508 (audio input #3)
 RCA {2-RCA (m to m)} from DVD/VHS combo (“VHS out”) to Extron IN-1508 (audio input #1)
 USB from document camera to PC
 DVI-D (m to m) from document camera to Extron IN-1508 (input #8)
 Shielded RS232 line from Extron MLC 226 (“Projector”) to {9 pin (m)} – 2-gang wall plate.
 Shielded RS232 line from Extron MLC 226 (“MLS”) to {9 pin (m)} – Extron IN-1508 (“RS-232”)
 Composite video {RCA (m)} from DVD/VHS combo (“VHS out”) to BNC (m) – Extron IN-1508 input #1
 S-Video (m to m) from DVD/VHS combo (“DVD out”) to Extron IN-1508 (input #3)
 RCA {2-RCA (m to m)} from Extron IN-1508 to TOA amp (input #3)
 VGA {(HD 15 (m to m))} out from Extron IN-1508 to 2-gang wall plate
 VGA {(HD 15 (m to m))} out from equipment rack (future use – leave 10’ coil) to 2-gang wall plate.
 Speaker wire from TOA amp 8 ohm and COM terminal to Speakon (m) – 2-gang wall plate

4. Custom 2-gang wall including the following:

VGA {(HD 15 (f to f) feed-thru} Connect{(HD 15 (m)} from wall plate (inside) to {5-BNC (m) - data projector (“RGB 1 in”)
 VGA {(HD 15 (f to f) feed-thru} Connect{(HD 15 (m to m))} from wall plate (inside) to data projector (“RGB 2 in”)
 Serial {(DB 9 (f to f) feed-thru} Connect{(DB 9 (m to m))} from wall plate (inside) to data projector (“RS-232C”)
 Speakon (f) to fast connect on plate. Speaker wire from wall plate (inside) to speaker (LEFT)
 Speakon (f) to fast connect on plate. Speaker wire from wall plate (inside) to speaker (RIGHT)

The computer and video cables will run directly from the instructor station and/or equipment rack, to 2-gang wall plate, through wall conduit and terminate at the data projector. The speaker wire will run directly from the amp, to 2-gang wall plate through wall conduit, ceiling and terminate at the speakers.

5. Custom rear rack plate including the following:

VGA {(HD 15 (f to f) feed-thru} Connect{(HD 15 (m to m))} from rear rack plate (inside – possible video conference use) to 2-gang wall plate.

RCA {(f to f) feed-thru} Connect RCA(m to m) from rear rack plate (inside – possible video conference use) to TOA amp (input #4)

VGA {(HD 15 (f to f) feed-thru} (Leave unconnected behind rear rack plate – possible video conference use)

RCA {(f to f) feed-thru} Phoenix-type connector from Extron IN-1508 audio out to RCA (m)

6. Mount audio speakers in ceiling tile and connect from amp. No less than 16-gauge speaker cable to be used
7. Remove 8' wall screen and brackets. This un-used equipment shall be delivered to Robert Dudley in Stabler 104 at the end of the project.
8. Re-mount new HDTV format wall screen, to wall so that the screen bracket is against the ceiling tile grid to maximize viewing. Mount in front of room in best relationship to the projector (refer to diagram). Provide and tie heavy string to screen handle so that user can reach from the floor when screen is retracted. Screen and whiteboard will be offset.
9. Mount Extron MLC 226, IRCM-DV+, and CM-3BLB into MLM frame and mount “package” in gang box on top of instructor station. Connect, program and label for usability. HACC ITC Staff will provide file and specify exact placement of desktop gang box.
10. Install Extron IPL-T-S2 in rack and connect with document camera. Phoenix-type connector from Extron IPL-T-S2 to Serial {(DB 9 (m)} – document camera.

Location #2 Room 013

This room is a general classroom. Surface mount wall raceway may not be used; conduit is already in place. However cables should still be hidden as much as possible. Cloth split loom shall be used for exposed cables between wall plate and equipment rack.

The audio speakers are to be ceiling mounted spaced across the room for best sound. The ceiling in this room is ceiling is a full drop ceiling and 8' high. The wall screen will be a 65" x 116" HDTV format. The instructor station and equipment rack will be located in the corner opposite the door (diagrams will be distributed at the site survey).

The following equipment is being purchased separately and supplied by HACC will be the following:

The following **specific** equipment is being supplied by the vendor:

Item	Manufacturer	Model	Quantity
DVD/VHS Combo	Zenith	ZDX-613	1
DLP Projector	Panasonic	PT-D3500U	1
Document Camera	Samsung	SDP-900DXA	1
Speakers	JBL	CONTROL 26CT	6
Amp	TOA	A-912-MK2	1
Mic module for amp	TOA	M01F	2
Line module for amp	TOA	U-03R	4
Instructor Station	Smith System	26644	1
Equipment rack with casters	Raxxess	KAR18-28	1
Rear Door	Raxxess	KARD-18R	1
Front Door	Raxxess	KARD-18PLX	1
Universal Shelf (for VCR)	Raxxess	UTS-2	1
3-Space drawer	Raxxess	SDR-3	1
Rack mounted power strip	TrippLite	PDU-1220	1
Wireless Keyboard and Mouse Suite	Gyration	GP6105CKM	1
Sympodium	Smart Tech	ID-350	1
65" x 116" HDTV Format Wall Screen	DaLite	Model C (79042)	1
Screen brackets (pair)	DaLite	Number 6	1 pair
IPL-T-S2 IP box	Extron	60-544-81	1
MLC 226 IP Controller	Extron	60-600-82	1
IN-1508 Switcher	Extron	60-569-01	1
Desktop Gang Box	Extron	60-645-02	1
MLM 226 7GWP frame	Extron	70-340-02	1
CM-3BLB 3-button AAP	Extron	70-493-02	1
IRCM-DV+ VCR controller	Extron	70-220-02	1
VGA Distribution amp (P/2 DA2 Plus)	Extron	60-046-02	1

Installation shall include:

Item	Manufacturer	Model	Quantity
Projector Mount	Chief	RPA-570	1
1-Space Rack plate	Custom Made	??	1
2-gang wall plate	Custom Made	??	1
Special rear rack plate	Custom Made	??	1

1. Mounting data projector including mounting hardware. Please setup projector and Extron IN-1508 for 4:3 1024x768. The image will not fill the screen. However the hope is in the future, the projector and screen placement should be already such that the image can be wide format and would fill the screen.
2. Custom gang plate to be rack mounted and including the following:

VGA {(HD 15 (f to f) feed-thru} Connect{(HD 15 (m to m)) to Extron IN-1508 (input #7)
 XLR (f) to XLR (m) – (feed-thru) Connect XLR (f) to XLR (m) to TOA amp (input #2)
 Composite video {BNC (f to f)} Connect BNC (m to m) to Extron IN-1508 (input #2)
 R and L audio {2-RCA (f to f) feed-thru} Connect {2-RCA (m to m) to Extron IN-1508 (audio input #2)
 PC audio {mini (f) stereo to rear solder} Connect rear solder to {2-RCA (m)} Extron IN-1508 audio (input #7)

3. Cables needed to connect the equipment at the instructor station to the data projector and/or equipment rack including:

VGA {(HD 15 (m to m)) from PC (Extron P/2 DA2) to Extron IN-1508 (input #6)
 PC audio out {3.5mm (m to m) stereo} to Extron IN-1508 (audio input #6)
 RCA {2-RCA (m to m)} from DVD/VHS combo (“DVD out”) to Extron IN-1508 (audio input #3)
 RCA {2-RCA (m to m)} from DVD/VHS combo (“VHS out”) to Extron IN-1508 (audio input #1)
 USB from document camera to PC
 DVI-D (m to m) from document camera to Extron IN-1508 (input #8)
 Shielded RS232 line from Extron MLC 226 (“Projector”) to {9 pin (m)} – 2-gang wall plate.
 Shielded RS232 line from Extron MLC 226 (“MLS”) to {9 pin (m)} – Extron IN-1508 (“RS-232”)
 Composite video {RCA (m)} from DVD/VHS combo (“VHS out”) to BNC (m) – Extron IN-1508 input #1
 S-Video (m to m) from DVD/VHS combo (“DVD out”) to Extron IN-1508 (input #3)
 RCA {2-RCA (m to m)} from Extron IN-1508 to TOA amp (input #3)
 VGA {(HD 15 (m to m)) out from Extron IN-1508 to 2-gang wall plate
 VGA {(HD 15 (m to m)) out from equipment rack (future use – leave 10’ coil) to 2-gang wall plate.
 Speaker wire from TOA amp 8 ohm and COM terminal to Speakon (m) – 2-gang wall plate

4. Custom 2-gang wall including the following:

VGA {(HD 15 (f to f) feed-thru} Connect{(HD 15 (m)) from wall plate (inside) to {5-BNC (m) - data projector (“RGB 1 in”)
 VGA {(HD 15 (f to f) feed-thru} Connect{(HD 15 (m to m)) from wall plate (inside) to data projector (“RGB 2 in”)
 Serial {(DB 9 (f to f) feed-thru} Connect{(DB 9 (m to m)) from wall plate (inside) to data projector (“RS-232C”)
 Speakon (f) to fast connect on plate. Speaker wire from wall plate (inside) to speaker (LEFT)

Speakon (f) to fast connect on plate. Speaker wire from wall plate (inside) to speaker (RIGHT)

The computer and video cables will run directly from the instructor station and/or equipment rack, to 2-gang wall plate, through wall conduit and terminate at the data projector. The speaker wire will run directly from the amp, to 2-gang wall plate through wall conduit, ceiling and terminate at the speakers.

5. Custom rear rack plate including the following:

VGA {(HD 15 (f to f) feed-thru) Connect{(HD 15 (m to m)) from rear rack plate (inside – possible video conference use) to 2-gang wall plate.

RCA {(f to f) feed-thru) Connect RCA(m to m) from rear rack plate (inside – possible video conference use) to TOA amp (input #4)

VGA {(HD 15 (f to f) feed-thru) (Leave unconnected behind rear rack plate – possible video conference use)

RCA {(f to f) feed-thru) Phoenix-type connector from Extron IN-1508 audio out to RCA (m)

6. Mount audio speakers in ceiling tile and connect from amp. No less than 16-gauge speaker cable to be used
7. Remove 8' wall screen and brackets. This un-used equipment shall be delivered to Robert Dudley in Stabler 104 at the end of the project.
8. Re-mount new HDTV format wall screen, to wall so that the screen bracket is against the ceiling tile grid to maximize viewing. Mount in front of room in best relationship to the projector (refer to diagram). Provide and tie heavy string to screen handle so that user can reach from the floor when screen is retracted. Screen and whiteboard will be offset.
9. Mount Extron MLC 226, IRCM-DV+, and CM-3BLB into MLM frame and mount “package” in gang box on top of instructor station. Connect, program and label for usability. HACC ITC Staff will provide file and specify exact placement of desktop gang box.
10. Install Extron IPL-T-S2 in rack and connect with document camera. Phoenix-type connector from Extron IPL-T-S2 to Serial {(DB 9 (m) – document camera.

Location #3 Room 015

This room is an Electrical Technology classroom. Surface mount wall raceway may not be used; conduit is already in place. However cables should still be hidden as much as possible. Cloth split loom shall be used for exposed cables between wall plate and equipment rack.

The audio speakers are to be ceiling mounted spaced across the room for best sound. The ceiling in this room is open; height to be determined at site survey. The wall screen will be a 65” x 116” HDTV format. The instructor station and equipment rack will be located in the corner opposite the door (diagrams will be distributed at the site survey).

This is a large room with large support poles. There is a need for multiple displays; one projector and two LCD or plasma TVs. Each display will show the same image at the same time.

The following equipment is being purchased separately and supplied by HACC will be the following:

The following **specific** equipment is being supplied by the vendor:

Item	Manufacturer	Model	Quantity
DVD/VHS Combo	Zenith	ZDX-613	1
DLP Projector	Panasonic	PT-D3500U	1
LCD or plasma TV	TBD	TBD	2
Document Camera	Samsung	SDP-900DXA	1
Speakers	JBL	CONTROL 26CT	11
Amp	TOA	P-912-MK2	1
Amp	TOA	A-912-MK2	1
Mic module for amp	TOA	M01F	2
Line module for amp	TOA	U-03R	4
Line module for amp	TOA	U-01R	4
Instructor Station	Smith System	26644	1
Equipment rack with casters	Raxxess	KAR18-28	1
Rear Door	Raxxess	KARD-18R	1
Front Door	Raxxess	KARD-18PLX	1
Universal Shelf (for VCR)	Raxxess	UTS-2	1
3-Space drawer	Raxxess	SDR-3	1
Rack mounted power strip	TrippLite	PDU-1220	1
Wireless Keyboard and Mouse Suite	Gyration	GP6105CKM	1
Symposium	Smart Tech	ID-350	1
65" x 116" HDTV Format Wall Screen	DaLite	Model C (79042)	1
Screen brackets (pair)	DaLite	Number 6	1 pair
PMK 250 Multi-Product Mounting Kit	Extron	70-526-03	1
MTP T 15HD RS Twisted Pair Transmitter	Extron	60-652-01	1
MTP RL 15HD RS Twisted Pair Receiver	Extron	60-735-01	3
IPL-T-S2 IP box	Extron	60-544-81	1
MLC 226 IP Controller	Extron	60-600-82	1
IN-1508 Switcher	Extron	60-569-01	1
Desktop Gang Box	Extron	60-645-02	1
MLM 226 7GWP frame	Extron	70-340-02	1
CM-3BLB 3-button AAP	Extron	70-493-02	1
IRCM-DV+ VCR controller	Extron	70-220-02	1
VGA Distribution amp (P/2 DA2 Plus)	Extron	60-046-02	1

Item	Manufacturer	Model	Quantity
Projector Mount	Chief	RPA-570	1
LCD or plasma TV Mount	??	??	2
1-Space Rack plate	Custom Made	??	1
2-gang wall plate	Custom Made	??	1
Special rear rack plate	Custom Made	??	1
Single-gang wall plate	Custom Made	??	1

Installation shall include:

1. Mounting data projector including mounting hardware. Please setup projector, LCD or plasma TVs and Extron IN-1508 for 4:3 1024x768. The image will not fill the screen. However the hope is in the future, the projector and screen placement should be already such that the image can be wide format and would fill the screen.
2. Mounting LCD or plasma TVs from the ceiling structure on the rear side of the support pole as close to the ceiling as possible.
3. Mount Extron PMK 250 to projector pipe above ceiling if possible. Install twisted pair transmitter and twisted pair receiver.
4. Mount twisted pair receiver neatly behind each LCD TV, preferably to the mounting hardware not the pipe.
5. Custom gang plate to be rack mounted and including the following:

VGA {(HD 15 (f to f) feed-thru) Connect {(HD 15 (m to m)) to Extron IN-1508 (input #7)

XLR (f) to XLR (m) – (feed-thru) Connect XLR (f) to XLR (m) to TOA amp (input #2)

Composite video {BNC (f to f)} Connect BNC (m to m) to Extron IN-1508 (input #2)

R and L audio {2-RCA (f to f) feed-thru} Connect {2-RCA (m to m) to Extron IN-1508 (audio input #2)

PC audio {mini (f) stereo to rear solder} Connect rear solder to {2-RCA (m)} Extron IN-1508 (audio input #7)

6. Cables needed to connect the equipment at the instructor station to the data projector and/or equipment rack including:

VGA {(HD 15 (m to m)) from PC (Extron P/2 DA2) to Extron IN-1508 (input #6)

PC audio out {3.5mm (m to m) stereo} to Extron IN-1508 (audio input #6)

RCA {2-RCA (m to m)} from DVD/VHS combo (“DVD out”) to Extron IN-1508 (audio input #3)

RCA {2-RCA (m to m)} from DVD/VHS combo (“VHS out”) to Extron IN-1508 (audio input #1)

USB from document camera to PC

DVI-D (m to m) from document camera to Extron IN-1508 (input #8)

Shielded RS232 line from Extron MLC 226 (“Projector”) to {9 pin (m)} – 2-gang wall plate.

Shielded RS232 line from Extron MLC 226 (“MLS”) to {9 pin (m)} – Extron IN-1508 (“RS-232”)

Composite video {RCA (m)} from DVD/VHS combo (“VHS out”) to BNC (m) – Extron IN-1508 input #1

S-Video (m to m) from DVD/VHS combo (“DVD out”) to Extron IN-1508 (input #3)

RCA {2-RCA (m to m)} from Extron IN-1508 to TOA amp (input #3)

RCA (m to m) from amp A-912-MK2 (“Aux Out”) to amp P-912-MK2 (input #1)

VGA {(HD 15 (m to m))} out from Extron IN-1508 to twisted pair transmitter (“Input”)
RJ-45 (m to m) from twisted pair transmitter (“Output”) to 2-gang wall plate.
Speaker wire from TOA A-912-MK2 amp 8 ohm and COM terminal to Speakon (m) – 2-gang wall plate
Speaker wire from TOA P-912-MK2 amp 8 ohm and COM terminal to Speakon (m) – single-gang wall plate

7. Custom 2-gang wall including the following:

VGA {(HD 15 (f to f) feed-thru} Connect{(HD 15 (m))} from wall plate (inside) to {5-BNC (m)} - data projector (“RGB 1 in”)
Serial {(DB 9 (f to f) feed-thru} Connect{(DB 9 (m to m))} from wall plate (inside) to data projector (“RS-232C”)
Speakon (f) to fast connect on plate. Speaker wire from wall plate (inside) to half of speakers
RJ-45 {(f to f) feed-thru} Connect RJ-45 (m to m)} from wall plate (inside) to twisted pair receiver #3

The computer and video cables will run directly from the instructor station and/or equipment rack, to 2-gang wall plate, through wall conduit and terminate at the data projector. The speaker wire will run directly from the amp, to 2-gang wall plate through wall conduit, ceiling and terminate at the speakers.

8. Custom rear rack plate including the following:

VGA {(HD 15 (f to f) feed-thru} Connect{(HD 15 (m to m))} from rear rack plate (inside – possible video conference use) to 2-gang wall plate.
RCA {(f to f) feed-thru} Connect RCA(m to m) from rear rack plate (inside – possible video conference use) to TOA amp (input #4)
VGA {(HD 15 (f to f) feed-thru} (Leave unconnected behind rear rack plate – possible video conference use)
RCA {(f to f) feed-thru} Phoenix-type connector from Extron IN-1508 audio out to RCA (m)

9. Custom single-gang wall including the following:

Speakon (f) to fast connect on plate. Speaker wire from wall plate (inside) to other half of speakers

10. Other connections including the following:

RJ-45 (m to m) from twisted pair receiver #3 (“Buffered Output”) to twisted pair receiver #1 (“Input”) at LCD or plasma TV #1
VGA (HD 15 (m to m) from twisted pair receiver #3 (“Output”) to data projector (“RGB 2 in”)
VGA (HD 15 (m to m) from twisted pair receiver #1 (“Output”) to LCD or plasma TV #1 (“PC Input 1”)

RJ-45 (m to m) from twisted pair receiver #1 (“Buffered Output”) to twisted pair receiver #2 (“Input”) at LCD or plasma TV #2
VGA (HD 15 (m to m) from twisted pair receiver #2 (“Output”) to LCD or plasma TV #2 (“PC Input 1”)
Connect twisted pair receiver #1 with LCD or plasma TV #1. Phoenix-type connector from (“RS-232”) to Serial {(DB 9 (m))} LCD or plasma TV #1 (“RS-232”)
Connect twisted pair receiver #2 with LCD or plasma TV #2. Phoenix-type connector from (“RS-232”) to Serial {(DB 9 (m))} LCD or plasma TV #2 (“RS-232”)

11. Mount audio speakers in ceiling tile and connect from amp. No less than 16-gauge speaker cable to be used
12. Remove 8’ wall screen and brackets. This un-used equipment shall be delivered to Robert Dudley in Stabler 104 at the end of the project.
13. Re-mount new HDTV format wall screen, to wall so that the screen bracket is against the ceiling tile grid to maximize viewing. Mount in front of room in best relationship to the projector (refer to diagram). Provide and tie heavy string to screen handle so that user can reach from the floor when screen is retracted. Screen and whiteboard will be offset.
14. Mount Extron MLC 226, IRCM-DV+, and CM-3BLB into MLM frame and mount “package” in gang box on top of instructor station. Connect, program and label for usability. HACC ITC Staff will provide file and specify exact placement of desktop gang box.
15. Install Extron IPL-T-S2 in rack and connect with document camera. Phoenix-type connector from Extron IPL-T-S2 to Serial {(DB 9 (f) – document camera.

Location #4 Room 017

This room is an Industrial Maintenance classroom. Surface mount wall raceway may not be used; conduit is already in place. However cables should still be hidden as much as possible. Cloth split loom shall be used for exposed cables between wall plate and equipment rack.

The audio speakers are to be ceiling mounted spaced across the room for best sound. The ceiling in this room is open; height to be determined at site survey. The wall screen will be a 65” x 116” HDTV format. The instructor station and equipment rack will be located in the corner opposite the door (diagrams will be distributed at the site survey).

This is a large room with large support poles. There is a need for multiple displays; one projector and two LCD or plasma TVs. Each display will show the same image at the same time.

The following equipment is being purchased separately and supplied by HACC will be the following:

The following **specific** equipment is being supplied by the vendor:

Item	Manufacturer	Model	Quantity
DVD/VHS Combo	Zenith	ZDX-613	1
DLP Projector	Panasonic	PT-D3500U	1
LCD or plasma TV	TBD	TBD	6
Document Camera	Samsung	SDP-900DXA	1
Speakers	JBL	CONTROL 26CT	23
Amp	TOA	P-912-MK2	1
Amp	TOA	A-912-MK2	1
Mic module for amp	TOA	M01F	2
Line module for amp	TOA	U-03R	4
Line module for amp	TOA	U-01R	4
Instructor Station	Smith System	26644	1
Equipment rack with casters	Raxxess	KAR18-28	1
Rear Door	Raxxess	KARD-18R	1
Front Door	Raxxess	KARD-18PLX	1
Universal Shelf (for VCR)	Raxxess	UTS-2	1
3-Space drawer	Raxxess	SDR-3	1
Rack mounted power strip	TrippLite	PDU-1220	1
Wireless Keyboard and Mouse Suite	Gyration	GP6105CKM	1
Symposium	Smart Tech	ID-350	1
65" x 116" HDTV Format Wall Screen	DaLite	Model C (79042)	1
Screen brackets (pair)	DaLite	Number 6	1 pair
PMK 250 Multi-Product Mounting Kit	Extron	70-526-03	1
MTP T 15HD RS Twisted Pair Transmitter	Extron	60-652-01	1
MTP RL 15HD RS Twisted Pair Receiver	Extron	60-735-01	7
IPL-T-S2 IP box	Extron	60-544-81	1
MLC 226 IP Controller	Extron	60-600-82	1
IN-1508 Switcher	Extron	60-569-01	1
Desktop Gang Box	Extron	60-645-02	1
MLM 226 7GWP frame	Extron	70-340-02	1
CM-3BLB 3-button AAP	Extron	70-493-02	1
IRCM-DV+ VCR controller	Extron	70-220-02	1
VGA Distribution amp (P/2 DA2 Plus)	Extron	60-046-02	1

Item	Manufacturer	Model	Quantity
Projector Mount	Chief	RPA-570	1
LCD or plasma TV Mount	??	??	6
1-Space Rack plate	Custom Made	??	1
2-gang wall plate	Custom Made	??	1
Special rear rack plate	Custom Made	??	1
Single-gang wall plate	Custom Made	??	1

Installation shall include:

1. Mounting data projector including mounting hardware. Please setup projector, LCD or plasma TVs and Extron IN-1508 for 4:3 1024x768. The image will not fill the screen. However the hope is in the future, the projector and screen placement should be already such that the image can be wide format and would fill the screen.
2. Mounting LCD or plasma TVs from the ceiling structure on the rear side of the support pole as close to the ceiling as possible.
3. Mount Extron PMK 250 to projector pipe above ceiling if possible. Install twisted pair transmitter and twisted pair receiver.
4. Mount twisted pair receiver neatly behind each LCD TV, preferably to the mounting hardware not the pipe.
5. Custom gang plate to be rack mounted and including the following:

VGA {(HD 15 (f to f) feed-thru) Connect {(HD 15 (m to m)) to Extron IN-1508 (input #7)

XLR (f) to XLR (m) – (feed-thru) Connect XLR (f) to XLR (m) to TOA amp (input #2)

Composite video {BNC (f to f)} Connect BNC (m to m) to Extron IN-1508 (input #2)

R and L audio {2-RCA (f to f) feed-thru} Connect {2-RCA (m to m) to Extron IN-1508 (audio input #2)

PC audio {mini (f) stereo to rear solder} Connect rear solder to {2-RCA (m)} Extron IN-1508 (audio input #7)

6. Cables needed to connect the equipment at the instructor station to the data projector and/or equipment rack including:

VGA {(HD 15 (m to m)) from PC (Extron P/2 DA2) to Extron IN-1508 (input #6)

PC audio out {3.5mm (m to m) stereo} to Extron IN-1508 (audio input #6)

RCA {2-RCA (m to m)} from DVD/VHS combo (“DVD out”) to Extron IN-1508 (audio input #3)

RCA {2-RCA (m to m)} from DVD/VHS combo (“VHS out”) to Extron IN-1508 (audio input #1)

USB from document camera to PC

DVI-D (m to m) from document camera to Extron IN-1508 (input #8)

Shielded RS232 line from Extron MLC 226 (“Projector”) to {9 pin (m)} – 2-gang wall plate.

Shielded RS232 line from Extron MLC 226 (“MLS”) to {9 pin (m)} – Extron IN-1508 (“RS-232”)

Composite video {RCA (m)} from DVD/VHS combo (“VHS out”) to BNC (m) – Extron IN-1508 input #1

S-Video (m to m) from DVD/VHS combo (“DVD out”) to Extron IN-1508 (input #3)

RCA {2-RCA (m to m)} from Extron IN-1508 to TOA amp (input #3)

RCA (m to m) from amp A-912-MK2 (“Aux Out”) to amp P-912-MK2 (input #1)

VGA {(HD 15 (m to m))} out from Extron IN-1508 to twisted pair transmitter (“Input”)
RJ-45 (m to m) from twisted pair transmitter (“Output”) to 2-gang wall plate.
Speaker wire from TOA A-912-MK2 amp 8 ohm and COM terminal to Speakon (m) – 2-gang wall plate
Speaker wire from TOA P-912-MK2 amp 8 ohm and COM terminal to Speakon (m) – single-gang wall plate

7. Custom 2-gang wall including the following:

VGA {(HD 15 (f to f) feed-thru} Connect{(HD 15 (m))} from wall plate (inside) to {5-BNC (m)} - data projector (“RGB 1 in”)
Serial {(DB 9 (f to f) feed-thru} Connect{(DB 9 (m to m))} from wall plate (inside) to data projector (“RS-232C”)
Speakon (f) to fast connect on plate. Speaker wire from wall plate (inside) to half of speakers
RJ-45 {(f to f) feed-thru} Connect RJ-45 (m to m)} from wall plate (inside) to twisted pair receiver #3

The computer and video cables will run directly from the instructor station and/or equipment rack, to 2-gang wall plate, through wall conduit and terminate at the data projector. The speaker wire will run directly from the amp, to 2-gang wall plate through wall conduit, ceiling and terminate at the speakers.

8. Custom rear rack plate including the following:

VGA {(HD 15 (f to f) feed-thru} Connect{(HD 15 (m to m))} from rear rack plate (inside – possible video conference use) to 2-gang wall plate.
RCA {(f to f) feed-thru} Connect RCA(m to m) from rear rack plate (inside – possible video conference use) to TOA amp (input #4)
VGA {(HD 15 (f to f) feed-thru} (Leave unconnected behind rear rack plate – possible video conference use)
RCA {(f to f) feed-thru} Phoenix-type connector from Extron IN-1508 audio out to RCA (m)

9. Custom single-gang wall including the following:

Speakon (f) to fast connect on plate. Speaker wire from wall plate (inside) to other half of speakers

10. Other connections including the following:

RJ-45 (m to m) from twisted pair receiver #7 (“Buffered Output”) to twisted pair receiver #1 (“Input”) at LCD or plasma TV #1
VGA (HD 15 (m to m) from twisted pair receiver #7 (“Output”) to data projector (“RGB 2 in”)
RJ-45 (m to m) from twisted pair receiver #1 (“Buffered Output”) to twisted pair receiver #2 (“Input”) at LCD or plasma TV #2

VGA (HD 15 (m to m) from twisted pair receiver #1 (“Output”) to LCD or plasma TV #1 (“PC Input 1”)
 Connect twisted pair receiver #1 with LCD or plasma TV #1. Phoenix-type connector from (“RS-232”) to Serial {(DB 9 (m)) LCD or plasma TV #1 (“RS-232”)

RJ-45 (m to m) from twisted pair receiver #2 (“Buffered Output”) to twisted pair receiver #3 (“Input”) at LCD or plasma TV #3
 VGA (HD 15 (m to m) from twisted pair receiver #2 (“Output”) to LCD or plasma TV #2 (“PC Input 1”)
 Connect twisted pair receiver #2 with LCD or plasma TV #2. Phoenix-type connector from (“RS-232”) to Serial {(DB 9 (m)) LCD or plasma TV #2 (“RS-232”)

RJ-45 (m to m) from twisted pair receiver #3 (“Buffered Output”) to twisted pair receiver #4 (“Input”) at LCD or plasma TV #4
 VGA (HD 15 (m to m) from twisted pair receiver #3 (“Output”) to LCD or plasma TV #3 (“PC Input 1”)
 Connect twisted pair receiver #3 with LCD or plasma TV #3. Phoenix-type connector from (“RS-232”) to Serial {(DB 9 (m)) LCD or plasma TV #3 (“RS-232”)

RJ-45 (m to m) from twisted pair receiver #4 (“Buffered Output”) to twisted pair receiver #5 (“Input”) at LCD or plasma TV #5
 VGA (HD 15 (m to m) from twisted pair receiver #4 (“Output”) to LCD or plasma TV #4 (“PC Input 1”)
 Connect twisted pair receiver #4 with LCD or plasma TV #4. Phoenix-type connector from (“RS-232”) to Serial {(DB 9 (m)) LCD or plasma TV #4 (“RS-232”)

RJ-45 (m to m) from twisted pair receiver #5 (“Buffered Output”) to twisted pair receiver #6 (“Input”) at LCD or plasma TV #6
 VGA (HD 15 (m to m) from twisted pair receiver #5 (“Output”) to LCD or plasma TV #5 (“PC Input 1”)
 Connect twisted pair receiver #5 with LCD or plasma TV #5. Phoenix-type connector from (“RS-232”) to Serial {(DB 9 (m)) LCD or plasma TV #5 (“RS-232”)

VGA (HD 15 (m to m) from twisted pair receiver #6 (“Output”) to LCD or plasma TV #6 (“PC Input 1”)
 Connect twisted pair receiver #6 with LCD or plasma TV #6. Phoenix-type connector from (“RS-232”) to Serial {(DB 9 (m)) LCD or plasma TV #6 (“RS-232”)

11. Mount audio speakers in ceiling tile and connect from amp. No less than 16-gauge speaker cable to be used
12. Remove 8’ wall screen and brackets. This un-used equipment shall be delivered to Robert Dudley in Stabler 104 at the end of the project.
13. Re-mount new HDTV format wall screen, to wall so that the screen bracket is against the ceiling tile grid to maximize viewing. Mount in front of room in best relationship to the projector (refer to diagram). Provide and tie heavy string to screen handle so that user can reach from the floor when screen is retracted. Screen and whiteboard will be offset.

14. Mount Extron MLC 226, IRCM-DV+, and CM-3BLB into MLM frame and mount “package” in gang box on top of instructor station. Connect, program and label for usability. HACC ITC Staff will provide file and specify exact placement of desktop gang box.
15. Install Extron IPL-T-S2 in rack and connect with document camera. Phoenix-type connector from Extron IPL-T-S2 to Serial {(DB 9 (f) – document camera.

Location #5 Room 105

This room is a general classroom. Surface mount wall raceway may not be used; conduit is already in place. However cables should still be hidden as much as possible. Cloth split loom shall be used for exposed cables between wall plate and equipment rack.

The audio speakers are to be ceiling mounted spaced across the room for best sound. The ceiling in this room is a floating ceiling cloud and 10’ high. The wall screen will be a 65” x 116” HDTV format. The instructor station and equipment rack will be located in the corner opposite the door (diagrams will be distributed at the site survey).

The following equipment is being purchased separately and supplied by HACC will be the following:

Item	Manufacturer	Model	Quantity
DVD/VHS Combo	Zenith	ZDX-613	1
DLP Projector	Panasonic	PT-D3500U	1
Document Camera	Samsung	SDP-900DXA	1
Speakers	JBL	CONTROL 26CT	7
Amp	TOA	A-912-MK2	1
Mic module for amp	TOA	M01F	2
Line module for amp	TOA	U-03R	4
Instructor Station	Smith System	26644	1
Equipment rack with casters	Raxxess	KAR18-28	1
Rear Door	Raxxess	KARD-18R	1
Front Door	Raxxess	KARD-18PLX	1
Universal Shelf (for VCR)	Raxxess	UTS-2	1
3-Space drawer	Raxxess	SDR-3	1
Rack mounted power strip	TrippLite	PDU-1220	1
Wireless Keyboard and Mouse Suite	Gyration	GP6105CKM	1
Symposium	Smart Tech	ID-350	1
65” x 116” HDTV Format Wall Screen	DaLite	Model C (79042)	1
Screen brackets (pair)	DaLite	Number 6	1 pair
IPL-T-S2 IP box	Extron	60-544-81	1
MLC 226 IP Controller	Extron	60-600-82	1
IN-1508 Switcher	Extron	60-569-01	1
Desktop Gang Box	Extron	60-645-02	1
MLM 226 7GWP frame	Extron	70-340-02	1
CM-3BLB 3-button AAP	Extron	70-493-02	1
IRCM-DV+ VCR controller	Extron	70-220-02	1
VGA Distribution amp (P/2 DA2 Plus)	Extron	60-046-02	1

The following **specific** equipment is being supplied by the vendor:

Installation shall include:

Item	Manufacturer	Model	Quantity
Projector Mount	Chief	RPA-570	1
1-Space Rack plate	Custom Made	??	1
2-gang wall plate	Custom Made	??	1
Special rear rack plate	Custom Made	??	1

1. Mounting data projector including mounting hardware. Please setup projector and Extron IN-1508 for 4:3 1024x768. The image will not fill the screen. However the hope is in the future, the projector and screen placement should be already such that the image can be wide format and would fill the screen.
2. Custom gang plate to be rack mounted and including the following:

VGA {(HD 15 (f to f) feed-thru) Connect{(HD 15 (m to m)) to Extron IN-1508 (input #7)

XLR (f) to XLR (m) – (feed-thru) Connect XLR (f) to XLR (m) to TOA amp (input #2)

Composite video {BNC (f to f)} Connect BNC (m to m) to Extron IN-1508 (input #2)

R and L audio {2-RCA (f to f) feed-thru} Connect {2-RCA (m to m) to Extron IN-1508 (audio input #2)

PC audio {mini (f) stereo to rear solder} Connect rear solder to {2-RCA (m)} Extron IN-1508 audio (input #7)

3. Cables needed to connect the equipment at the instructor station to the data projector and/or equipment rack including:

VGA {(HD 15 (m to m)) from PC (Extron P/2 DA2) to Extron IN-1508 (input #6)

PC audio out {3.5mm (m to m) stereo} to Extron IN-1508 (audio input #6)

RCA {2-RCA (m to m)} from DVD/VHS combo (“DVD out”) to Extron IN-1508 (audio input #3)

RCA {2-RCA (m to m)} from DVD/VHS combo (“VHS out”) to Extron IN-1508 (audio input #1)

USB from document camera to PC

DVI-D (m to m) from document camera to Extron IN-1508 (input #8)

Shielded RS232 line from Extron MLC 226 (“Projector”) to {9 pin (m)} – 2-gang wall plate.

Shielded RS232 line from Extron MLC 226 (“MLS”) to {9 pin (m)} – Extron IN-1508 (“RS-232”)

Composite video {RCA (m)} from DVD/VHS combo (“VHS out”) to BNC (m) – Extron IN-1508 input #1

S-Video (m to m) from DVD/VHS combo (“DVD out”) to Extron IN-1508 (input #3)

RCA {2-RCA (m to m)} from Extron IN-1508 to TOA amp (input #3)

VGA {(HD 15 (m to m))} out from Extron IN-1508 to 2-gang wall plate
VGA {(HD 15 (m to m))} out from equipment rack (future use – leave 10' coil) to 2-gang wall plate.
Speaker wire from TOA amp 8 ohm and COM terminal to Speakon (m) – 2-gang wall plate

4. Custom 2-gang wall including the following:

VGA {(HD 15 (f to f) feed-thru} Connect{(HD 15 (m))} from wall plate (inside) to {5-BNC (m) - data projector (“RGB 1 in”)
VGA {(HD 15 (f to f) feed-thru} Connect{(HD 15 (m to m))} from wall plate (inside) to data projector (“RGB 2 in”)
Serial {(DB 9 (f to f) feed-thru} Connect{(DB 9 (m to m))} from wall plate (inside) to data projector (“RS-232C”)
Speakon (f) to fast connect on plate. Speaker wire from wall plate (inside) to speaker (LEFT)
Speakon (f) to fast connect on plate. Speaker wire from wall plate (inside) to speaker (RIGHT)

The computer and video cables will run directly from the instructor station and/or equipment rack, to 2-gang wall plate, through wall conduit and terminate at the data projector. The speaker wire will run directly from the amp, to 2-gang wall plate through wall conduit, ceiling and terminate at the speakers.

5. Custom rear rack plate including the following:

VGA {(HD 15 (f to f) feed-thru} Connect{(HD 15 (m to m))} from rear rack plate (inside – possible video conference use) to 2-gang wall plate.
RCA {(f to f) feed-thru} Connect RCA(m to m) from rear rack plate (inside – possible video conference use) to TOA amp (input #4)
VGA {(HD 15 (f to f) feed-thru} (Leave unconnected behind rear rack plate – possible video conference use)
RCA {(f to f) feed-thru} Phoenix-type connector from Extron IN-1508 audio out to RCA (m)

6. Mount audio speakers in ceiling tile and connect from amp. No less than 16-gauge speaker cable to be used
7. Remove 8' wall screen and brackets. This un-used equipment shall be delivered to Robert Dudley in Stabler 104 at the end of the project.
8. Re-mount new HDTV format wall screen, to wall so that the screen bracket is against the ceiling tile grid to maximize viewing. Mount in front of room in best relationship to the projector (refer to diagram). Provide and tie heavy string to screen handle so that user can reach from the floor when screen is retracted. Screen and whiteboard will be offset.
9. Mount Extron MLC 226, IRCM-DV+, and CM-3BLB into MLM frame and mount “package” in gang box on top of instructor station. Connect, program and label for usability. HACC ITC Staff will provide file and specify exact placement of desktop gang box.

10. Install Extron IPL-T-S2 in rack and connect with document camera. Phoenix-type connector from Extron IPL-T-S2 to Serial {(DB 9 (m)} – document camera.

Location #6 Room 118

This room is a general classroom. Surface mount wall raceway may not be used; conduit is already in place. However cables should still be hidden as much as possible. Cloth split loom shall be used for exposed cables between wall plate and equipment rack.

The audio speakers are to be ceiling mounted spaced across the room for best sound. The ceiling in this room is a floating ceiling cloud and 10' high. The wall screen will be a 65" x 116" HDTV format. The instructor station and equipment rack will be located in the corner opposite the door (diagrams will be distributed at the site survey).

The following equipment is being purchased separately and supplied by HACC will be the following:

Item	Manufacturer	Model	Quantity
DVD/VHS Combo	Zenith	ZDX-613	1
DLP Projector	Panasonic	PT-D3500U	1
Document Camera	Samsung	SDP-900DXA	1
Speakers	JBL	CONTROL 26CT	7
Amp	TOA	A-912-MK2	1
Mic module for amp	TOA	M01F	2
Line module for amp	TOA	U-03R	4
Instructor Station	Smith System	26644	1
Equipment rack with casters	Raxxess	KAR18-28	1
Rear Door	Raxxess	KARD-18R	1
Front Door	Raxxess	KARD-18PLX	1
Universal Shelf (for VCR)	Raxxess	UTS-2	1
3-Space drawer	Raxxess	SDR-3	1
Rack mounted power strip	TrippLite	PDU-1220	1
Wireless Keyboard and Mouse Suite	Gyration	GP6105CKM	1
Symposium	Smart Tech	ID-350	1
65" x 116" HDTV Format Wall Screen	DaLite	Model C (79042)	1
Screen brackets (pair)	DaLite	Number 6	1 pair
IPL-T-S2 IP box	Extron	60-544-81	1
MLC 226 IP Controller	Extron	60-600-82	1
IN-1508 Switcher	Extron	60-569-01	1
Desktop Gang Box	Extron	60-645-02	1
MLM 226 7GWP frame	Extron	70-340-02	1
CM-3BLB 3-button AAP	Extron	70-493-02	1
IRCM-DV+ VCR controller	Extron	70-220-02	1
VGA Distribution amp (P/2 DA2 Plus)	Extron	60-046-02	1

The following **specific** equipment is being supplied by the vendor:

Installation shall include:

Item	Manufacturer	Model	Quantity
Projector Mount	Chief	RPA-570	1
1-Space Rack plate	Custom Made	??	1
2-gang wall plate	Custom Made	??	1
Special rear rack plate	Custom Made	??	1

1. Mounting data projector including mounting hardware. Please setup projector and Extron IN-1508 for 4:3 1024x768. The image will not fill the screen. However the hope is in the future, the projector and screen placement should be already such that the image can be wide format and would fill the screen.
2. Custom gang plate to be rack mounted and including the following:

VGA {(HD 15 (f to f) feed-thru) Connect{(HD 15 (m to m)) to Extron IN-1508 (input #7)
 XLR (f) to XLR (m) – (feed-thru) Connect XLR (f) to XLR (m) to TOA amp (input #2)
 Composite video {BNC (f to f)} Connect BNC (m to m) to Extron IN-1508 (input #2)
 R and L audio {2-RCA (f to f) feed-thru} Connect {2-RCA (m to m) to Extron IN-1508 (audio input #2)
 PC audio {mini (f) stereo to rear solder} Connect rear solder to {2-RCA (m)} Extron IN-1508 audio (input #7)

3. Cables needed to connect the equipment at the instructor station to the data projector and/or equipment rack including:

VGA {(HD 15 (m to m)) from PC (Extron P/2 DA2) to Extron IN-1508 (input #6)
 PC audio out {3.5mm (m to m) stereo} to Extron IN-1508 (audio input #6)
 RCA {2-RCA (m to m)} from DVD/VHS combo (“DVD out”) to Extron IN-1508 (audio input #3)
 RCA {2-RCA (m to m)} from DVD/VHS combo (“VHS out”) to Extron IN-1508 (audio input #1)
 USB from document camera to PC
 DVI-D (m to m) from document camera to Extron IN-1508 (input #8)
 Shielded RS232 line from Extron MLC 226 (“Projector”) to {9 pin (m)} – 2-gang wall plate.
 Shielded RS232 line from Extron MLC 226 (“MLS”) to{9 pin (m)} – Extron IN-1508 (“RS-232”)
 Composite video {RCA (m)} from DVD/VHS combo (“VHS out”) to BNC (m) – Extron IN-1508 input #1
 S-Video (m to m) from DVD/VHS combo (“DVD out”) to Extron IN-1508 (input #3)
 RCA {2-RCA (m to m)} from Extron IN-1508 to TOA amp (input #3)

VGA {(HD 15 (m to m))} out from Extron IN-1508 to 2-gang wall plate
VGA {(HD 15 (m to m))} out from equipment rack (future use – leave 10' coil) to 2-gang wall plate.
Speaker wire from TOA amp 8 ohm and COM terminal to Speakon (m) – 2-gang wall plate

4. Custom 2-gang wall including the following:

VGA {(HD 15 (f to f) feed-thru} Connect{(HD 15 (m))} from wall plate (inside) to {5-BNC (m) - data projector (“RGB 1 in”)
VGA {(HD 15 (f to f) feed-thru} Connect{(HD 15 (m to m))} from wall plate (inside) to data projector (“RGB 2 in”)
Serial {(DB 9 (f to f) feed-thru} Connect{(DB 9 (m to m))} from wall plate (inside) to data projector (“RS-232C”)
Speakon (f) to fast connect on plate. Speaker wire from wall plate (inside) to speaker (LEFT)
Speakon (f) to fast connect on plate. Speaker wire from wall plate (inside) to speaker (RIGHT)

The computer and video cables will run directly from the instructor station and/or equipment rack, to 2-gang wall plate, through wall conduit and terminate at the data projector. The speaker wire will run directly from the amp, to 2-gang wall plate through wall conduit, ceiling and terminate at the speakers.

5. Custom rear rack plate including the following:

VGA {(HD 15 (f to f) feed-thru} Connect{(HD 15 (m to m))} from rear rack plate (inside – possible video conference use) to 2-gang wall plate.
RCA {(f to f) feed-thru} Connect RCA(m to m) from rear rack plate (inside – possible video conference use) to TOA amp (input #4)
VGA {(HD 15 (f to f) feed-thru} (Leave unconnected behind rear rack plate – possible video conference use)
RCA {(f to f) feed-thru} Phoenix-type connector from Extron IN-1508 audio out to RCA (m)

6. Mount audio speakers in ceiling tile and connect from amp. No less than 16-gauge speaker cable to be used
7. Remove 8' wall screen and brackets. This un-used equipment shall be delivered to Robert Dudley in Stabler 104 at the end of the project.
8. Re-mount new HDTV format wall screen, to wall so that the screen bracket is against the ceiling tile grid to maximize viewing. Mount in front of room in best relationship to the projector (refer to diagram). Provide and tie heavy string to screen handle so that user can reach from the floor when screen is retracted. Screen and whiteboard will be offset.
9. Mount Extron MLC 226, IRCM-DV+, and CM-3BLB into MLM frame and mount “package” in gang box on top of instructor station. Connect, program and label for usability. HACC ITC Staff will provide file and specify exact placement of desktop gang box.

10. Install Extron IPL-T-S2 in rack and connect with document camera. Phoenix-type connector from Extron IPL-T-S2 to Serial {(DB 9 (m)} – document camera.

Location #7 Room 119

This room is a general classroom. Surface mount wall raceway may not be used; conduit is already in place. However cables should still be hidden as much as possible. Cloth split loom shall be used for exposed cables between wall plate and equipment rack.

The audio speakers are to be ceiling mounted spaced across the room for best sound. The ceiling in this room is a floating ceiling cloud and 10' high. The wall screen will be a 65" x 116" HDTV format. The instructor station and equipment rack will be located in the corner opposite the door (diagrams will be distributed at the site survey).

The following equipment is being purchased separately and supplied by HACC will be the following:

Item	Manufacturer	Model	Quantity
DVD/VHS Combo	Zenith	ZDX-613	1
DLP Projector	Panasonic	PT-D3500U	1
Document Camera	Samsung	SDP-900DXA	1
Speakers	JBL	CONTROL 26CT	7
Amp	TOA	A-912-MK2	1
Mic module for amp	TOA	M01F	2
Line module for amp	TOA	U-03R	4
Instructor Station	Smith System	26644	1
Equipment rack with casters	Raxxess	KAR18-28	1
Rear Door	Raxxess	KARD-18R	1
Front Door	Raxxess	KARD-18PLX	1
Universal Shelf (for VCR)	Raxxess	UTS-2	1
3-Space drawer	Raxxess	SDR-3	1
Rack mounted power strip	TrippLite	PDU-1220	1
Wireless Keyboard and Mouse Suite	Gyration	GP6105CKM	1
Symposium	Smart Tech	ID-350	1
65" x 116" HDTV Format Wall Screen	DaLite	Model C (79042)	1
Screen brackets (pair)	DaLite	Number 6	1 pair
IPL-T-S2 IP box	Extron	60-544-81	1
MLC 226 IP Controller	Extron	60-600-82	1
IN-1508 Switcher	Extron	60-569-01	1
Desktop Gang Box	Extron	60-645-02	1
MLM 226 7GWP frame	Extron	70-340-02	1
CM-3BLB 3-button AAP	Extron	70-493-02	1
IRCM-DV+ VCR controller	Extron	70-220-02	1
VGA Distribution amp (P/2 DA2 Plus)	Extron	60-046-02	1

The following **specific** equipment is being supplied by the vendor:

Installation shall include:

Item	Manufacturer	Model	Quantity
Projector Mount	Chief	RPA-570	1
1-Space Rack plate	Custom Made	??	1
2-gang wall plate	Custom Made	??	1
Special rear rack plate	Custom Made	??	1

1. Mounting data projector including mounting hardware. Please setup projector and Extron IN-1508 for 4:3 1024x768. The image will not fill the screen. However the hope is in the future, the projector and screen placement should be already such that the image can be wide format and would fill the screen.
2. Custom gang plate to be rack mounted and including the following:

VGA {(HD 15 (f to f) feed-thru) Connect{(HD 15 (m to m)) to Extron IN-1508 (input #7)
 XLR (f) to XLR (m) – (feed-thru) Connect XLR (f) to XLR (m) to TOA amp (input #2)
 Composite video {BNC (f to f)} Connect BNC (m to m) to Extron IN-1508 (input #2)
 R and L audio {2-RCA (f to f) feed-thru} Connect {2-RCA (m to m) to Extron IN-1508 (audio input #2)
 PC audio {mini (f) stereo to rear solder} Connect rear solder to {2-RCA (m)} Extron IN-1508 audio (input #7)

3. Cables needed to connect the equipment at the instructor station to the data projector and/or equipment rack including:

VGA {(HD 15 (m to m)) from PC (Extron P/2 DA2) to Extron IN-1508 (input #6)
 PC audio out {3.5mm (m to m) stereo} to Extron IN-1508 (audio input #6)
 RCA {2-RCA (m to m)} from DVD/VHS combo (“DVD out”) to Extron IN-1508 (audio input #3)
 RCA {2-RCA (m to m)} from DVD/VHS combo (“VHS out”) to Extron IN-1508 (audio input #1)
 USB from document camera to PC
 DVI-D (m to m) from document camera to Extron IN-1508 (input #8)
 Shielded RS232 line from Extron MLC 226 (“Projector”) to {9 pin (m)} – 2-gang wall plate.
 Shielded RS232 line from Extron MLC 226 (“MLS”) to{9 pin (m)} – Extron IN-1508 (“RS-232”)
 Composite video {RCA (m)} from DVD/VHS combo (“VHS out”) to BNC (m) – Extron IN-1508 input #1
 S-Video (m to m) from DVD/VHS combo (“DVD out”) to Extron IN-1508 (input #3)
 RCA {2-RCA (m to m)} from Extron IN-1508 to TOA amp (input #3)

VGA {(HD 15 (m to m))} out from Extron IN-1508 to 2-gang wall plate
 VGA {(HD 15 (m to m))} out from equipment rack (future use – leave 10' coil) to 2-gang wall plate.
 Speaker wire from TOA amp 8 ohm and COM terminal to Speakon (m) – 2-gang wall plate

4. Custom 2-gang wall including the following:

VGA {(HD 15 (f to f) feed-thru} Connect{(HD 15 (m))} from wall plate (inside) to {5-BNC (m) - data projector (“RGB 1 in”)
 VGA {(HD 15 (f to f) feed-thru} Connect{(HD 15 (m to m))} from wall plate (inside) to data projector (“RGB 2 in”)
 Serial {(DB 9 (f to f) feed-thru} Connect{(DB 9 (m to m))} from wall plate (inside) to data projector (“RS-232C”)
 Speakon (f) to fast connect on plate. Speaker wire from wall plate (inside) to speaker (LEFT)
 Speakon (f) to fast connect on plate. Speaker wire from wall plate (inside) to speaker (RIGHT)

The computer and video cables will run directly from the instructor station and/or equipment rack, to 2-gang wall plate, through wall conduit and terminate at the data projector. The speaker wire will run directly from the amp, to 2-gang wall plate through wall conduit, ceiling and terminate at the speakers.

5. Custom rear rack plate including the following:

VGA {(HD 15 (f to f) feed-thru} Connect{(HD 15 (m to m))} from rear rack plate (inside – possible video conference use) to 2-gang wall plate.
 RCA {(f to f) feed-thru} Connect RCA(m to m) from rear rack plate (inside – possible video conference use) to TOA amp (input #4)
 VGA {(HD 15 (f to f) feed-thru} (Leave unconnected behind rear rack plate – possible video conference use)
 RCA {(f to f) feed-thru} Phoenix-type connector from Extron IN-1508 audio out to RCA (m)

6. Mount audio speakers in ceiling tile and connect from amp. No less than 16-gauge speaker cable to be used
7. Remove 8' wall screen and brackets. This un-used equipment shall be delivered to Robert Dudley in Stabler 104 at the end of the project.
8. Re-mount new HDTV format wall screen, to wall so that the screen bracket is against the ceiling tile grid to maximize viewing. Mount in front of room in best relationship to the projector (refer to diagram). Provide and tie heavy string to screen handle so that user can reach from the floor when screen is retracted. Screen and whiteboard will be offset.
9. Mount Extron MLC 226, IRCM-DV+, and CM-3BLB into MLM frame and mount “package” in gang box on top of instructor station. Connect, program and label for usability. HACC ITC Staff will provide file and specify exact placement of desktop gang box.

10. Install Extron IPL-T-S2 in rack and connect with document camera. Phoenix-type connector from Extron IPL-T-S2 to Serial {(DB 9 (m)} – document camera.

**X. COST PROPOSAL SHEET FOR 08-03
SMART CLASSROOM INSTALLATION - MIDTOWN**

The Bidder shall propose the costs to furnish the services in accordance with this RFP. Award will be made to the Contractor(s) whose proposal is most advantageous to the College.

The Bidder will enter below the total cost for the project by category. On the accompanying spreadsheet to this Request for Proposal, the Bidders will enter the cost by location on the first sheet of the Excel Spreadsheet. And complete the equipment list on the second sheet of the Excel Spreadsheet:

1. PRICING:

Bidders will complete the Work in accordance with the terms and conditions of this Request for Proposal for the following stipulated-sum bid price:

A) Price for the installation of Smart Technology in classrooms.

_____ (in words)

\$ _____ (in figures)

Must use Prevailing Wage

2. ADDITIONAL QUESTIONS:

A) What is the lead time once Purchase Order is issued? _____

B) What is the earliest date your firm could commence installation? _____

C) Does your firm have Certifications? Yes _____ No _____

1) If your firm has Certifications, list them. _____

D) How many years does your firm have in installation of SMART Technology systems? _____

Company Name: _____

Authorized Signature: _____

Title: _____

Date: _____

XI. Notification of Intent to Submit Proposal

NOTIFICATION OF INTENT TO SUBMIT PROPOSAL

Please refer to the Request for Proposal Package covering SMART CLASSROOM INSTALLATION - MIDTOWN for Proposal Number **08-03: SMART CLASSROOM INSTALLATION - MIDTOWN** for Harrisburg Area Community College.

If you are interested in submitting a Proposal, please fill out the information requested below and return this form to Garry Crider, Director of Purchasing, Harrisburg Area Community College, One HACC Drive, Harrisburg, PA 17110 no later than **Monday, July 30, 2007, by 2:00PM**. Or fax this document to 717-780-2325 or e-mail this document to cgcrider@hacc.edu.

Name of Organization _____

Mailing Address _____

Representative's Name _____

Representative's Title _____

Email Address _____

Phone Number _____

FAX Number _____

We intend on doing the following: (check one)

- 1. () We will submit a Proposal
- 2. () We will NOT submit a Proposal

If number 2 is checked, please give a brief explanation in the spaces provided.

Signed: _____ Date: _____

XII. Notice of Intent to Attend the Mandatory Site Visit

Please refer to the Request for Proposal Package covering the SMART CLASSROOM INSTALLATION - MIDTOWN, Request for Proposal # **08-03: SMART CLASSROOM INSTALLATION - MIDTOWN**.

If you **will or will not** be attending the tour of our facilities, please fill out the information requested below and return this form to Garry Crider, Director of Purchasing, Harrisburg Area Community College, One HACC Drive, Harrisburg, PA 17110 no later than **Monday, July 16, 2007, 11:00AM**.

Name of Organization _____

Mailing Address _____

Representative's Name _____

Representative's Title _____

Email Address _____

Phone Number _____

FAX Number _____

We intend on doing the following: (check one)

1. () We will attend for the tour
2. () We will NOT attend

If number 2 is checked, please give a brief explanation in the spaces provided.

Signed: _____ Date: _____

Note: this form may be faxed to Garry Crider at 717-780-2325.

Harrisburg Area Community College
Request for Proposal
08-03 – SMART CLASSROOM INSTALLATION - MIDTOWN

Harrisburg Area Community College is requesting quotes for **SMART CLASSROOM INSTALLATION - MIDTOWN**. A copy of **RFP # 08-03** may be obtained at: www.hacc.edu (click on “Business & Community” – under “Purchasing”, click on “Request for Proposals”) beginning **Friday - June 29, 2007**. Responses due by **11:30AM** on **Tuesday – July 31, 2007** in Whitaker Hall room 130. Harrisburg Area Community College reserves the right to accept or reject any or all Proposals. HACC is committed to providing opportunities for Minority Business Enterprises (MBE), and Woman Business Enterprises (WBE). HACC encourages MBE and WBE firms to submit a Proposal for the Work and all bidders to proactively solicit MBE and WBE firms in the bidding and subcontracting process.