INVITATION TO BID

Arkansas Tech University
Purchasing Department
Young Building East End
203 West O Street
Russellville, Arkansas 72801-2222

Bid No. B0100051

Tel: (479) 968-0269

Fax: (479) 968-0633

Arkansas Tech University will receive sealed bids for construction described as follows: **PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO repaint all exterior wood and metal surfaces which are presently painted at Crabaugh and Tomlinson.**

Arkansas Tech University will receive sealed bids **until 2:00 p.m. local time, June 11, 2010**, in the Purchasing Department; Young Building East End; 203 West O Street; Russellville, Arkansas. Bids received after that time will ***not*** be accepted. All interested parties are invited to attend.

There shall be only one bid for the entire project. Bid shall be submitted on the form provided by the University and shall be delivered in a **clearly identified, sealed, opaque envelope.**

THE OWNER RESERVES THE RIGHT TO REJECT ANY OR ALL BIDS AND WAIVE ANY FORMALITIES.

Bona Fide Bidders may obtain documents at the ATU Purchasing Department; Young Building East End; 203 West O Street; Russellville, AR on the following basis:

Act 2157 of 2005 of the Arkansas Regular Legislative Session requires that **any business or person** responding to a Request for Quotation (Bid) submit their most current equal opportunity policy (EO). The EO Policy form is included with this bid package. **Failure to submit an EO Policy or response may result in rejection of your bid response.**

Pursuant to Arkansas Code Annotated § 22-9-203, the University encourages all small, minority, and women business enterprises to submit bids for capital improvements. Encouragement is also made to all general contractors that in the event they subcontract portions of their work, consideration is given to the identified groups.

IF THE BASE BID IS IN EXCESS OF $20,000

Bid security in the amount of 5% of the Base Bid must accompany each proposal in accordance with the "INSTRUCTION TO BIDDERS".

All bidders shall conform to the requirements of the Arkansas Code Annotated 17-25-101 et seq., Arkansas State Licensing Law for Contractors**.** ***Contractors must be licensed on the day of the bid submittal.*** There shall be only one (1) bid submitted per State Contractor's License, and each bid received shall have the license for that bidder.

IF THE BASE BID IS IN EXCESS OF $25,000

In accordance with the Governor's Executive Order 98-04, all bidders are herein notified that included with this bid package is the "Contract and Grant Disclosure and Certification Form." If the base bid exceeds $25,000, *the successful bidder shall complete and return the disclosure form when notified and as instructed.*

Act 157 of 2007 of the Arkansas Regular Legislative Session requires that any business or person responding to an Invitation for Bid with a total dollar value of $25,000 or more **MUST CERTIFY,** *prior to the award of the contract,* that they do not employ or contract with any illegal immigrants. The Certification Form is included with this bid package. **Failure to certify will result in reject of bid, and no award will be made to a vendor who has not so certified.**

SECURING CONSTRUCTION BID DOCUMENTS

Copies of the drawing and/or specifications are on file and may be obtained from the ATU Purchasing Department; Young Building East End; 203 West O Street; Russellville, AR 72801-2222.

BID SUBMISSION

Each bid must be submitted in a sealed, opaque envelope, bearing on the outside the name of the bidder, name and number of the project and Arkansas Contractors License Number (if applicable). Only those bids submitted on the University's forms and received prior to the time and date for receipt of bids will be considered.

All blanks on the form should be filled out in ink or be typewritten. Only original ink signature shall be acceptable. Unsigned bids shall be disqualified.

Erroneous entries shall be lined out, initialed by the bidder, and the corrected entry inserted on the bid form.

LATE BIDS AND MODIFICATIONS TO BIDS

Oral modifications to bids and telegraphic or facsimile bids will not be considered.

Bidders may submit *written modifications* to their bid in **writing, telegraph or facsimile** at any time prior to the expiration of the bidding time and date and shall be so worded as not to reveal the amount of the original bid.

Telegraph or facsimile shall require written confirmation over the signature of the bidder within twenty-four hours after the bid opening date and time.

ALTERNATIVE BIDS

Alternative bids other than those listed in the bid form shall not be considered.

BID GUARANTEE FOR BASE BIDS OVER $20,000

If the base bid is in excess of $20,000.00, each bid shall include a bid security in the amount of 5% of the total bid offered. The bidder is required to submit a bidder's deposit, either a cashier's check payable to the order of ARKANSAS TECH UNIVERSITY drawn upon a bank or trust company doing business in Arkansas or a corporate bid bond in an amount equal to 5% of the bid.

DISCLOSURE REQUIREMENTS FOR CONTRACTS OVER $ 25,000.00

Failure to make any disclosure required by Governor's Executive order 98-04, or any violation of any rule, regulation, or policy adopted pursuant to that Order, shall be a material breach of terms of this contract. Any contractor, whether an individual or entity, who fails to make the required disclosure or who violates any rule, regulation or policy shall be subject to all legal remedies available to the agency.

a) The contractor shall, prior to entering any agreement with any subcontractor for which the total consideration is greater than $25,000, require the subcontractor to complete a Contract and Grant Disclosure and Certification Form. The contractor shall ensure that any agreement, current or future between the contractor and a subcontractor for which the total consideration is greater than $25,000 shall contain the following statement:

> Failure to make any disclosure required by Governor Executive Order 98-04, or any violation of any rule, regulation or policy adopted pursuant to that Order, shall be a material breach of the term of this subcontract. The party who fails to make the

required disclosure or who violates the rule, regulation, or policy shall be subject to all legal remedies available to the contractor.

b) The contractor shall, within ten (10) days of entering into any agreement with a subcontractor, transmit to the ATU Purchasing Department, a copy of the Contract and Grant Disclosure and Certification Form completed and signed by the subcontractor and a statement containing the dollar amount of the subcontractor.

c) The terms and conditions regarding the failure to disclose and conditions which constitutes material breach of contract and rights of termination and remedies under the Executive Order 98-04 are hereby incorporated within.

PERFORMANCE & PAYMENT BOND FOR CONTRACTS OVER $20,000.00
(Arkansas Code Annotated 18-44-503, 18-44-506, 18-44-507 and Arkansas Code Annotated 22-9-401, 22-9-402, 22-9-403)

The successful bidder shall furnish a Performance and Payment bond within 10 days after receipt of the University's Notice of Intent to Award. *Use the proper Arkansas Statutory Performance and Payment Bond Form, provided by the University or by the Arkansas Building Authority.* Failure to furnish the required bonds may cause forfeiture of bid guarantee to the Owner as liquidated damages.

The Contractor shall furnish a "Performance and Payment Bond" in the amount equal to 100% of the contract price as security for the faithful performance of this contract and for payment of all indebtedness for labor and materials furnished or performed in connection with this contract. The bond shall be written by a surety company that is qualified and is authorized to do business in the State of Arkansas. The bond must be executed by a resident local agent who shall be entitled to the full commission paid local agents, who is licensed by the Insurance Commissioner to represent the surety company executing said bond and who files with said bond his Power of Attorney as his authority. The mere countersigning of a bond will not be sufficient.

The bond shall be written in favor of Arkansas Tech University and executed. An original and two (2) copies of the bond must be furnished, with Power of Attorney attached to each. The contractor **shall file (not record)** the original with the Clerk in the Circuit Court of Pope County. The contractor is to pay all expenses incident to the filing of the bond. The remaining two copies should be certified by the Clerk to evidence the filing of the original and these two copies submitted to the ATU Purchasing Dept.

SUBCONTRACTORS
All prime contractors, as a condition to perform construction work for and in the State of Arkansas, shall use no other subcontractors when the subcontractors' portion of the project is $20,000 or more, except those qualified and licensed by the Contractors Licensing Board in Mechanical (HVAC-R), Plumbing, Electrical and Roofing/Sheet Metal.

For those bids where the listed work is **$20,000 or more**, the prime contractor must make a definite decision as to which subcontractor he intends to use. The prime contractor shall place the names, licenses of each subcontractor and indicate on the space provided on the Bid Form that the amount of the listed work is $20,000 or more.

The prime contractor may use his own forces to do the listed work; however if the listed work is $20,000 or more, the prime contractor must be qualified and licensed by the Arkansas Contractors Licensing Board to perform the listed work. Once the prime contractor determines his own forces will be used, he shall place his name, license number and indicate on the space provided on the Bid Form that the amount of listed work is $20,000 or more.

In the event the amount of the listed work is **below $20,000**, the Prime Contractor shall place the names of the person or firm performing the work and indicate on the space provided on the Form of Proposal that the listed work is under $20,000.

Failure to complete the bid form correctly shall cause the bid to be declared non-responsive and the bid will not receive consideration.

In the event that one (1) or more of the subcontractors named by the prime contractor in his successful bid thereafter refuse to perform his contract or offered contract, the prime contractor may substitute another subcontractor, after having obtained prior approval from the architect or engineer and the University.

It shall be mandatory that any subcontractors listed in (A) – (D) on the Bid Form by the prime contractor be awarded a contract under Arkansas Code Annotated § 22-9-204. Prime Contractors who submit a bid listing unlicensed contractors or who use unlicensed contractors on a state project or any subcontractor not licensed by the Contractors Licensing Board who perform work on a state project are subject to a civil penalty, after notice and hearing, of not less than $250 or more than $500 and may be suspended from bidding on state projects.

CONTRACTOR'S INSURANCE REQUIREMENTS

The contractor shall purchase and maintain such insurance as will protect him from claims set forth that may arise out of or result from the contractor's operations under the contract, whether such operations be by himself or by anyone directly or indirectly employed by any of them, or by anyone for whose acts they may be liable;

a) Claims under Workmen's Compensation, Disability Benefit and other similar benefit act:
b) Claims for damages because of bodily injury, occupational sickness or disease, or death of his employees;
c) Claims for damages because of bodily injury, sickness or disease, or death of any person other than his employees;
d) Claims for damage insured by usual personal injury liability coverage, which are sustained.
   (1) by any person as a result of an offense directly or indirectly related to the employment of such person by the Contractor, or
   (2) by any person; and
e) The contractor shall provide and maintain during the term of this contract, at the contractors' expense, Comprehensive Automobile Liability Insurance at limits no less than the statutory requirements and it shall be shown on the certificate in per person, per accident for bodily injury and per accident for property damages.
f) Claims under comprehensive general liability for damages because of injury to or destruction of tangible property including loss of use resulting there from. Coverage for "completed operation" shall be required under this comprehensive liability section.

The policy shall be written by Casualty Company authorized to do business in the State of Arkansas. The Certificate of Insurance shall show the agent's signature, business name, address and telephone number and must be submitted to the ATU Purchasing Department prior to the Contract Award. The certificate shall stipulate 15 days written notice be given prior to policy coverage cancellation.

EXAMINATION OF DRAWINGS, SPECIFICATIONS, AND SITE OF WORK

Before submitting a bid, each bidder shall carefully examine the drawings, read the specifications and all other documents and visit the site of work. Each bidder shall fully inform himself - prior to bidding - as to all existing conditions and limitations under which the work is to be performed, and he shall include in his bid a sum to cover the cost of all items necessary to perform the work as set forth in the Contract Documents. No allowance will be made to any bidder due to lack of such examination or knowledge. The submission of a bid will be construed as evidence that the bidder has made such examination.

INTERPRETATION OF CONTRACT DOCUMENTS PRIOR TO BIDDING

All references to the ***Owner*** shall be interpreted to mean the State of Arkansas and Arkansas Tech University.

If any person contemplating submitting a bid is in doubt as to the true meaning of any part of the bid documents or finds discrepancies or omissions, he may submit to the ATU Purchasing Department a written request for an interpretation or correction thereof not later than five (5) days before the bids will be opened.

Address all communications regarding the bid documents to:

Arkansas Tech University
Purchasing Department
203 West O Street
Russellville, AR 72801-2222 Fax: 479-968-0633

The person submitting the request will be responsible for its prompt delivery.

Any interpretation or correction of the bid documents will be made only by addendum and will be mailed or delivered to each bidder of record. The University will not be responsible for any oral explanations or interpretations of the bid documents.

All addenda issued during the bidding period will be incorporated into the resultant contract.

PROOF OF COMPETENCY OF BIDDER

Attention is called to the fact that the bidder, in signing the Bid Form, represents that he has the financial ability and experience to carry the work through its several stages within the time specified.

A bidder whose bid is under consideration shall, upon request, promptly furnish satisfactory evidence of his financial resources, his experience and the equipment he has available for the performance of the contract.

TAXES

The bidder shall include in his bid ALL State Sales Tax, Social Security Taxes, State Unemployment Insurance and all other items of like nature. It is the intent that the bid shall represent the total cost to the University of all work included in the contract. The local tax rate is 8 ½%.

PAYMENT TO CONTRACTOR

The University shall make final payment within 30 days after the contract has been substantially completed [ACA 22-9-604]. In the event the project extends beyond 30 days, periodic payments shall be made.

Arkansas Code 19-4-1411 allows a maximum processing time for Contractor payment requests:

Five (5) working days for the University
Five (5) working days for the Department of Finance and Administration

Transmittal times are not included in processing. Failure of any of the above to complete processing within the time allowed can result in a penalty being assessed against the responsible agency.

FINAL PAYMENT REQUEST

The contractor shall complete and submit ABA Form Contractor's Affidavit and *Consent of Surety for final payment form with final payment request. Failure to do so will result in a ***delay*** of payment.

*Required only on projects that require 100% Payment and Performance Bond.

Upon receipt of payment from the University, the contractor shall promptly pay each subcontractor for the subcontractor's work. The contractor shall require each subcontractor to make payments to his sub-contractors in similar manner. Failure to promptly pay subcontractors shall be cause to call upon the contractors payment bond for relief. Also see "Payment Withheld Item (a).

PAYMENT WITHHELD

The University may nullify the whole or any part of any Certificate for Payment previously issued, to such extent as may be necessary in its opinion to protect the University from loss due to:

a) When periodic payments are made, five percent (5%) will be withheld in accordance with Arkansas Code Annotated 22-9-604 (a)(1) et.seq.;
b) Defective work not remedied;
c) Third party claims filed or reasonable evidence indicating problem filing to such claims;
d) Failure of the contractor make payments properly to subcontractors or for labor, materials or equipment, also see "Final Payment Request"
e) Reasonable evidence that the work cannot be completed for the unpaid balance of the contract sum;
f) Damage to the University or another contractor;
g) Reasonable evidence that the work will not be completed within the contract time; or
h) Persistent failure to carry out the work in accordance with the contract documents.

CHANGE ORDERS

All requests for changes, additions or deductions, shall be submitted in a complete, itemized breakdown acceptable to the University.

If unit prices are stated in the contract, submit an itemized breakdown showing each unit price and its quantities.

The contractor shall present an itemized accounting, together with appropriate supporting data, for the purposes of considering additions or deductions. Supporting data shall include but is not limited to the following:

a) costs of labor, including social security, old age and unemployment insurance, fringe benefits required by agreement or custom, and worker or workmen's compensation insurance;
b) costs of materials, supplies and equipment, including cost of transportation, whether incorporated or consumed;
c) rental costs of machinery and equipment, exclusive of hand tools, whether rented from the contractor or others;
d) costs of premiums for all bonds and insurance, permit fees, and sales, use or similar taxes related to the project; and
e) additional costs of supervision and field office personnel directly attributable to the change.
f) the value of all such additions and deductions shall then be computed as set forth in below.

The burden of proof of cost rests upon the contractor. Contractor agrees that University's Representative shall have the right, at reasonable times, to inspect and audit the books and records of contractor to verify the propriety and granting of such cost.

Compute requests for changes, either additions or deductions, as follows:

(1) For work performed by the Contractor:

Net cost of material	a
State Sales Tax	b
Net Placing cost	c
W.C. Insurance Premium and FICA Tax	d

	a+b+c+d
Overhead and profit, 12% X (a+b+c+d)	e
Allowable Bond Premium	f
TOTAL COST	a+b+c+d+e+f

(2) Credit for work omitted shall be computed as outlined in (1) "a through e" except the contractor's share of overhead and profit percentage is 7%.

(3) For work performed by Subcontractors:
Subcontractors shall compute their work as outlined in (1) "a through e".
To the cost of that portion of the work (change) that is performed by the subcontractor, the general contractor shall add an overhead and profit change of five (5%) percent plus the allowable bond premium.

TIME FOR COMPLETION

The contractor agrees to start work within 5 days after issuance of "Notice to Proceed" and said work shall be prosecuted regularly, diligently, and uninterruptedly to completion. No architect or engineering observation will be furnished on legal holidays, Saturdays and Sundays and no work shall be performed on these days except with prior written approval from the University.

LEGAL HOLIDAYS: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day.
No other days will be considered.

PROJECT & SITE CLEAN UP

The contractor shall, at all times, keep the premises free from accumulation of waste materials or rubbish caused by his operation. At the completion of the work, he shall remove all his waste materials and rubbish from and about the project as well as all his tools, construction equipment, machinery and surplus materials, shall clean all glass surfaces and leave the work "broom-clean" or its equivalent, except as otherwise specified.

If the contractor fails to clean up, the University may do so and the cost thereof shall be charged to the contractor.

SUBSTITUTIONS ("OR EQUAL"

These specifications are intended to establish a minimum desired quality or performance level or other minimum dimensions and capacities that will provide the best product available at the best price. When a brand and/or model is designated and a bidder offers other than the designated brand and/or model, the other than designated brand and/or model must be listed, specifications and descriptive literature provided and, if required, a sample made available for testing. Other than designated brands and/or models approved as equal to designated products shall receive equal consideration.

a) When proofs of compliance for materials and equipment are requested in the technical specifications or requested by the University, such proofs of compliance shall be furnished by the contractor by supplying the following:
   (1) Certificates of Compliance from the manufacturer
   (2) Mill Certificates
   (3) Testing laboratory certificates
   (4) Report of actual laboratory test
b) In some cases, prior approval of materials and/or equipment must be obtained from the University in order to obtain the desired color, size, visual appearance, etc. ***VERIFY*** this requirement in the technical specifications.

TIE BIDS

If two or more sealed bids are equal in amount, meet specifications and are the lowest received at the bid opening, the apparent low bidder will be determined by lot (placing the name of the tie bidders into a container and drawing one name). The drawing shall be done by ATU personnel or another person so designated by ATU in the presence of a witness and tie bidders. The witness shall be an employee of the State of Arkansas. Documentation of the drawing must be included on the bid tabulation and be signed by those present. Nothing in the above and foregoing will diminish the State's reserved right to reject any and all bids and to waive formalities.

ANTIDISCRIMINATION CLAUSE REQUIRED IN CONTRACTS

The contractor shall not discriminate against any employee, applicant for employment or subcontractor as provided by law. In addition, a contractor shall be responsible for ensuring that all subcontractors comply with all federal and state laws and regulations related to discrimination. Upon a final determination by a court or administrative body having proper jurisdiction that the contractor has violated state or federal laws or regulations, the University may impose a range for appropriate remedies up to and including termination of the contract.

BID FORM for ATU BID NO. B010051

BID OPENING LOCATION
Arkansas Tech University
Purchasing Department
Young Building East End
203 West O Street
Russellville, Arkansas 72801-2222

BID OPENING DATE & TIME
Date: June 11, 2010

Time: 2:00 p.m.

Proposal of _____ a corporation organized and existing under the law of the State of _____ , or

- A partnership consisting of _____, or
- An individual trading as _____

(Strike out inapplicable provisions)

TO: Arkansas Tech University
Purchasing Department
Young Building East End
203 West O Street
Russellville, AR 72801-2222

The undersigned in compliance with your Invitation to Bid to **PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO repaint all exterior wood and metal surfaces which are presently painted {most notable exception being prefinished aluminum windows}. This includes hand rails, gutters, downspouts, both wood and steel frames and doors, wood roof trim at rakes and eaves, dormer siding and trim, wood posts, columns, cupolas, and soffits, steel lintels, etc**., and having examined the location(s), specifications/drawings and related documents and being familiar with all the conditions surrounding the project including the availability of labor, hereby propose to furnish all labor, materials, supplies and equipment as described above in accordance with the bid documents at the price stated below. This price is to cover all expenses of any nature incurred in performing the work required under the bid documents, of which this bid is a part. In submitting this bid, it is understood that the right is reserved by the University to reject any or all bids and to waive any formalities.

Bidder acknowledges receipt of the following addenda: _____

BASE BID $_____

BID PRICES FIRM
No bid shall be withdrawn for a period of thirty (30) days subsequent to the opening of the bids without the consent of the University.

CONTRACT AGREEMENT AND PERFORMANCE & PAYMENT BOND:
Upon receipt of notice of the acceptance of the above base bid, the bidder will execute the formal contract/ agreement, if required, within five (5) days and deliver a Performance and Payment Bond in the amount of 100% of the accepted bid as security for faithful performance of this contract and payment of all person performing labor, or furnishing equipment in connection with this contract.

CONSTRUCTION PERIOD
If awarded the contract, the undersigned agrees to commence work within five (5) days of the issuance of a "Notice to Proceed" and to complete the project by ***August 15, 2010***.

Further, the undersigned agrees to pay as liquidated damages the sum $100.00 each day the project exceeds the above allotment of time.

INSPECTION: If awarded the contract, the undersigned agrees to allow any Federal or State inspector, acting in their official capacity, access to the project site.

SUBSTITUTE PRODUCTS: Bidders are advised that they may bid other than specified products. If bidder takes no exception to specifications, they will be required to furnish material and/or equipment according to the brand names etc. as specified.

_____ Check if bidding brand(s) specified _____ Check if bidding substitute(s)

Brand(s) substituted: _____

RESPECTFULLY SUBMITTED,

SIGNATURE _____

(TITLE)

FIRM: _____
(PRINT OR TYPE)

BUSINESS ADDRESS: _____
(PRINT OR TYPE)

CITY, STATE, ZIP: _____
(PRINT OR TYPE)

FEDERAL ID NUMBER or SSN_____

TELEPHONE NUMBER ( ) _____ FAX NUMBER ( ) _____

ARKANSAS CONTRACTOR'S LICENSE NUMBER: _____

DATE: _____

SPECIFICATIONS

DESCRIPTION:
Furnish all labor, tools, materials, equipment rental, and any other incidental item to repaint all exterior wood and metal surfaces which are presently painted { most notable exception being prefinished aluminum windows}. This includes hand rails, gutters, down spouts, both wood and steel frames and doors, wood roof trim at rakes and eaves, dormer siding and trim, wood posts, columns, cupolas, and soffits, steel lintels, etc.

Execution:
All workmanship shall be of the best practice and quality for commercial and institutional projects of similar type. Work shall start as soon as possible in June and must be completed by August 15, 2010.

Materials:
The materials specified are intended to set a quality standard. Materials of other Manufacturers will be considered provided they meet or exceed the quality standards specified in all aspects. The University's representative will be the sole judge of any' product's suitability for use on this project. Follow manufacturer's written instructions in both preparation and product application. Pressure washing of all painted surfaces is required. Removal of all cracked or loose caulking is required. Caulked joints to be recaulked must be cleaned and primed if necessary before re-caulking. See product data sheets in appendix at end of this spec.

Caulking---------Sherwin Williams # 950a siliconized acrylic latex

Paint---------Sherwin Williams "duration" exterior latex satin coating, k33 series, self-priming, color is Sherwin Williams "ermine". Spot prime bare wood surfaces, wait 4 hours, and then apply 1 cover coat to entire surface. 7 mil wet, 2.8 dft.

Concealed wood damage:
Bidders are to assume that all wood is sound and free of faults that would require replacement. If during the preparation phase any damaged wood is encountered the contractor is to immediately notify plant personnel who will determine the extent of needed repairs and advise the contractor how to proceed.

Lead based paint testing:
Bidders are advised that both buildings were built before 1976 and a lead paint survey has been conducted. The executive summary has been included with the bid and full report of this survey may be reviewed for inspection only upon request. For further information call 479-968-0261 to schedule an appointment.

Any question relating to these specifications shall be referred to Jessica Holloway, Project/Program Specialist.

QUALITY ASSURANCE:
Standards: Comply with manufacturer's standards specified herein.

Qualifications of Manufacturer: Products used in the work of this section are to be produced by Manufacturers regularly engaged in the manufacture of similar items and with a history of successful production acceptable to the University.

Qualifications of Installer: Use an adequate number of skilled workmen who are thoroughly trained and experienced in the necessary crafts and who are completely familiar with the specified requirements and the methods needed for proper performance of the work of this project.

SUBMITTALS:

General: Comply with the provisions of the University's bid documents.

Product Data: Within 5 calendar days after "Notice to Proceed" of the contract:

(1) Complete materials list of all items proposed to be furnished and installed under this project.
(2) Manufacturer's specifications and other data required to demonstrate compliance with specified requirements.
(3) Manufacturer's recommended installation procedures.
The manufacturer's recommended installation procedures, when approved by the University, will become the basis for inspection and accepting or rejecting actual installation procedures used on the work.

PRODUCT HANDLING:

Protection: Use all means necessary to protect the materials of this project before, during and after installation and to protect the adjacent property.

Replacement: In the event of damage, immediately make all necessary repairs and replacements needed to the approval of the University and at no additional cost to the University.

OR EQUAL:

Where the bidder wishes to bid as equal or better, substitute materials or method other than specified, ***samples and manufacturer's specification shall be submitted with bid response,*** unless prior approval has been obtained from the University.
FAILURE TO DO SO WILL RESULT IN REJECTION OF BID.

INSPECTION:

Site visits will be mandatory. Two site visits will be conducted:
June 2, 2010 at 2:00 and June 4, 2010 at 2:00.

Bidders are to meet in the Hull Parking Lot (north of Football Field) to sign in for site visit.
Questions concerning site visit: Dennis Hill or Brian Lasey 479-968-0261

Bidders are responsible for accurate measurements.

Examine the areas and conditions under which work of this section will be performed. Correct conditions detrimental to the proper and timely completion of the work. Do not proceed until unsatisfactory conditions have been corrected. Proceeding with the work will constitute acceptance of all existing conditions.

COORDINATION WITH OWNER & PRE-EXECUTION CONFERENCE:

Prior to actually beginning work, there will be a conference involving the Contractor and the University's representative, Mr. Dennis Hill. The primary purpose of this conference will be to coordinate the following issues:

a. access to the site and building
b. parking
c. scheduling work

Before any work is started at the project site, representatives of the Contractor and the University shall inspect the interior and exterior finishes of the building. A list of any obvious flaws will be made and signed by both representatives, who will each receive a copy. This list will also note the condition of the lawns, sidewalks, landscaping and any roof surfaces that might be damaged by the Contractor's operations.

Prior to final inspection, the list will be reviewed by both representatives and any damage to the building finishes, lawns, landscaping, sidewalks or roofs caused by the Contractor will be repaired at the Contractor's expense.

The buildings will be occupied all summer and the contractor will be expected to perform his work with the least amount of disruption as reasonably possible. Keep access to building entrances open except when foot traffic under the work activity would create an overhead hazard to pedestrians. Keep lawns and sidewalks under work activity barricaded to prevent pedestrian exposure to overhead hazards.

All empty containers and other debris will be picked up daily and disposed of off campus. University dumpsters may not be used for contractor's waste.

Contractor must provide temporary toilet facilities for workmen's use. Contractor will coordinate with Physical Plant the location of these facilities.

Contractor will immediately dismiss any employee for harassing behavior such as lewd conduct or comments directed toward any students, staff, or university visitors.

Surfaces such as brick, windows, or concrete which are not to be painted shall be cleaned immediately if spillage occurs.

SITE SAFETY AND SECURITY:

Contractor shall obtain temporary parking permits from the University's Public Safety Office for each company vehicle parked on campus during the project.

Contractor shall be required to sign out and return project area keys from the University's representative. No final project acceptance or payment shall be approved until all keys are returned. All exterior openings are to be made secure at nights, on holidays and weekends.

Arkansas Tech University is a Tobacco Free Campus. The use of tobacco products is prohibited anywhere on the campus.

102.14

Duration®

EXTERIOR LATEX SATIN COATING
K33 SERIES

SHERWIN WILLIAMS.

As of 12/03/08, Complies with:			
OTC	Yes	LEED® CIv2.0	N/A
SCAQMD	No	LEED® NCv2.2	N/A
CARB	Yes	LEED® CSv2.0	N/A
MPI Spec #	No	LEED® H	N/A
NAHB	N/A		

With VinylSafe Color Technology For more color options

LOW TEMPERATURE 35° APPLICATION

DESCRIPTION

Duration® Exterior Latex Coating is the result of advances in acrylic technology. **Duration** uses **PermaLast®** technology to provide you with the most durable and longest lasting coating available for protecting the outside of your home.
VinylSafe™ Color Technology allows the use of many darker colors on vinyl siding that cannot be made in most other coatings.

Performance

- One Coat Protection
- Self-Priming
- Easy Application
- Superior Hiding
- Thicker. More Flexible
- Resists Blistering and Peeling

Projects

- Homes
- Windows
- Gutters
- Trim
- Architectural plastics, such as shutters & gutters

Surfaces

- Wood
- Stucco
- Masonry/Cement Composition Panels
- Aluminum Siding
- Vinyl Siding
- Galvanized Metal

MILDEW RESISTANT. This coating contains agents that inhibit the growth of mildew on the surface of this coating.

CHARACTERISTICS

Color: Most colors
Coverage: 250-300 sq ft/gal
up to 7.0 mils wet; 2.8 mils dft
Drying Time, @ 77°F, 50% RH:
temperature and humidity dependent

	@ 35-45°F	@ 45°F +
Touch:	2 hour	1 hour
Recoat:	24-48 hours	4 hours

Flash Point: N/A
Finish: 10-20 units @ 60°
Tinting with Blend-A-Color:

Base	oz/gal	Strength
Extra White	0-6	125%
Light Yellow	4-15	125%
Deep Base	4-15	125%
Ultradeep Base	4-15	125%

Vehicle Type: Acrylic
K33W00151
VOC (less exempt solvents):
113 g/L; 0.94 lb/gal
Volume Solids: 41 ± 2%
Weight Solids: 53 ± 2%
Weight per Gallon: 10.5 lb

CLEANUP INFORMATION

Clean hands and tools ***immediately*** after use with soap and warm water. The ***PermaLast*** technology in **DURATION**, which creates the tenacious bond to the surface, also creates a tenacious bond to applicators and any other surface it comes in contact with. You may want to clean occasionally during use.
After cleaning, flush spray equipment with mineral spirits to prevent rusting of the equipment. Follow manufacturers safety recommendations when using mineral spirits.

APPLICATION

Thoroughly follow the recommended surface preparations. Most coating failures are due to inadequate surface preparation or application. Thorough surface preparation will help provide long term protection with DURATION coating. On repaint work, apply one coat of **DURATION** coating; on bare surfaces, apply two coats of **DURATION**, allowing 4 hours drying between coats.
Do not paint in direct sun. Apply at temperatures above 35°F. During application at temperatures above 80°F, **DURATION** sets up quickly. Some adjustment in your painting approach may be required. Paint from a dry area into the adjoining wet coating area. Dries to touch in 1 hour and is ready for service overnight.
Previously Painted Surfaces -- Spot prime bare areas with **DURATION**, wait 4 hours, and paint the entire surface. Some specific surfaces require specialized treatment.
Unpainted Surfaces -- **DURATION** can be used as a self-priming coating on many bare surfaces. When used this way, the first coat of **DURATION** acts like a coat of primer and the second coat provides the final appearance and performance. However, some specific surfaces require specialized treatment.
See following surface preparations.

When the air temperature is at 35°F, substrates may be colder; prior to painting, check to be sure the **air, surface, and material temperature** are above 35°F and at least 5°F above the dew point. Avoid using if rain or snow is expected within 2-3 hours.
Do not apply at air or surface temperatures below 35°F or when air or surface temperatures may drop below 35°F within 48 hours.
On large expanses of metal siding, the air, surface, and material temperatures must be 50°F or higher.

No reduction necessary.
Brush - Use a nylon/polyester brush.
Roller - Use a 3/8" - 3/4" nap synthetic cover.
Spray—Airless
Pressure ..... 2000 psi
Tip ..... .015"-.019"
Reduction ..... none

continued on back

102.14

Duration®

EXTERIOR LATEX SATIN COATING
K33 SERIES

SHERWIN WILLIAMS.

SURFACE PREPARATION

WARNING! Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For more information, call the National Lead Information Center at 1-800-424-LEAD (in US) or contact your local health authority.

Remove all surface contamination by washing with an appropriate cleaner, rinse thoroughly and allow to dry. Scrape and sand peeled or checked paint to a sound surface. Sand glossy surfaces dull. Seal stains from water, smoke, ink, pencil, grease, etc. with the appropriate primer/sealer.

Aluminum and Galvanized Steel
Wash to remove any oil, grease, or other surface contamination. All corrosion must be removed with sandpaper, steel wool, or other abrading method.

Cement Composition Siding/Panels
Remove all dirt, dust, grease, oil, loose particles, laitance, foreign material, and peeling or defective coatings. Allow the surface to dry thoroughly. If the surface is new, test it for pH, if the pH is higher than 8, prime with Loxon Concrete & Masonry Primer.

Cement, Concrete, Masonry, Block
All new surfaces must be cured according to the supplier's recommendations—usually about 30 days. Remove all form release and curing agents. Rough surfaces can be filled to provide a smooth surface. If painting cannot wait 30 days, allow the surface to cure 7 days and prime the surface with Loxon Concrete & Masonry Primer. Cracks, voids, and other holes should be repaired with an elastomeric patch or sealant.

After power washing, previously painted masonry may still have a powdery surface that should be sealed with **Loxon Conditioner** and then apply 1 coat of **DURATION**.

Composition Board/Hardboard
Because of the potential for wax bleeding out of the substrate, apply 1 coat of **Exterior Oil-Based Wood Primer** and then topcoat.

Steel
Rust and mill scale must be removed using sandpaper, steel wool, or other abrading method. Bare steel must be primed the same day as cleaned.

Stucco
Remove any loose stucco, efflorescence, or laitance. Allow new stucco to cure at least 30 days before painting. If painting cannot wait 30 days, allow the surface to dry 5-7 days and prime with Loxon Concrete & Masonry Primer. Repair cracks, voids, and other holes with an elastomeric patch or sealant.

Vinyl Siding
Clean the surface thoroughly by scrubbing with warm, soapy water. Rinse thoroughly.

Wood
Sand any exposed wood to a fresh surface. Patch all holes and imperfections with a wood filler or putty and sand smooth. All patched areas must be primed.

Knots and some woods, such as redwood and cedar, contain a high amount of tannin, a colored wood extract. If applied to these bare woods, the first coat of **DURATION** may show some staining, but it will be trapped in the first coat. A second coat will uniform the appearance. If staining persists, spot prime severe areas with 1 coat of **Exterior Oil-Based Wood Primer** prior to using **DURATION**.

Caulking
Gaps between windows, doors, trim, and other through-wall openings can be filled with the appropriate caulk after priming the surface.

Mildew
Remove before painting by washing with a solution of 1 part liquid bleach and 3 parts water. Apply the solution and scrub the mildewed area. Allow the solution to remain on the surface for 10 minutes. Rinse thoroughly with water and allow the surface to dry before painting. Wear protective eyewear, waterproof gloves, and protective clothing. Quickly wash off any of the mixture that comes in contact with your skin. Do not add detergents or ammonia to the bleach/water solution.

CAUTIONS

For exterior use only.
Protect from freezing.
Non-photochemically reactive.

LABEL CAUTIONS
CAUTION contains CRYSTALLINE SILICA, ZINC. Use only with adequate ventilation. To avoid overexposure, open windows and doors or use other means to ensure fresh air entry during application and drying. If you experience eye watering, headaches, or dizziness, increase fresh air, or wear respiratory protection (NIOSH approved) or leave the area. Adequate ventilation required when sanding or abrading the dried film. If adequate ventilation cannot be provided wear an approved particulate respirator (NIOSH approved). Follow respirator manufacturer's directions for respirator use. Avoid contact with eyes and skin. Wash hands after using. Keep container closed when not in use. Do not transfer contents to other containers for storage. FIRST AID: In case of eye contact, flush thoroughly with large amounts of water. Get medical attention if irritation persists. If swallowed, call Poison Control Center, hospital emergency room, or physician immediately. DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Abrading or sanding of the dry film may release crystalline silica which has been shown to cause lung damage and cancer under long term exposure. WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN.

HOTW 10/13/2009 K33W00151 17 00

The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of The Sherwin-Williams Company. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Consult your Sherwin-Williams representative to obtain the most recent Product Data Sheet.

112.03

SHERWIN-WILLIAMS®
950A
SILICONIZED ACRYLIC LATEX CAULK

PRODUCT DESCRIPTION

950A features long lasting flexibility and adhesion for a variety of jobs. It is perfect for joints exposed to moderate levels of wear and movement. It is available in a variety of colors for custom applications.

BASIC USES

For use on: cracks or joints between wood, metal, glass, brick, stone, ceramic and many plastics.

- Quality adhesion and durability
- Provides a smooth, attractive finish
- Limited 55 year warranty

SPECIFICATION COMPLIANCE

White exceeds performance requirements of ASTM Standard C-834

Clear meets performance requirements of ASTM C-920 Class 35

PRODUCT AVAILABILITY

Color	SMIS Number	Size
White	151-8323	10.1 fl oz
Clear	151-8331	10.1 fl oz
White	163-1431	5.5 fl oz
Clear	134-4043	5.5 fl oz
White	163-2058	5 gallon

Properties

Vehicle:	Premium siliconized acrylic polymer
Volatile:	Water
Extrudability:	Excellent
Exterior Weather:	Will not crack, discolor or lose adhesion
Weight Solids:	83.5 ± 1%
Weight/Gallon:	13.2 ± 0.2 lb
Sag ASTM D2202:	0.15 in. maximum
Freeze-thaw:	Stable through 5 cycles
Mildew Resistance:	Resists mildew growth
Performance:	Exceeds all requirements of Specification ASTM C834

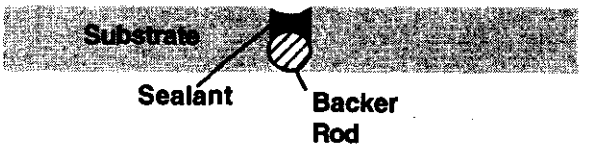
continued on back

112.03

SHERWIN-WILLIAMS®
950A
SILICONIZED ACRYLIC LATEX CAULK

PREPARATION & USE

JOINT DESIGN: Joints should not be more than ½" in width or depth. Joints deeper than 1/2" should be filled to within 1/2" of the surface with polyethylene foam filler/backer rod.



PREPARATION: Surfaces to be caulked/sealed must be clean, dry and free from oils, loose mortar, laitance, form release agents, old caulking, old paint or other contaminants. Allow new concrete to cure for 30 days before caulking.

MASKING: Mask areas that are not to be caulked/sealed. Remove masking immediately after tooling BEFORE a skin has formed on the caulk/sealant.

APPLICATION: Cut nozzle at 45° angle to the desired orifice /bead size. Load cartridge into a caulk gun and puncture the inner seal. Squeeze trigger to start flow of material. Keep nozzle pressed against the surface and slowly draw along seam. Apply a uniform, continuous bead.

TOOLING: Tool caulk with appropriate tool to ensure firm, full contact with the surface or the joint. If necessary, smooth the surface with wet finger or spatula and wipe off the excess with a water-dampened rag.

PRIMING: For best results, priming is recommended prior to caulking.Determine the primer based on the substrate, any topcoat, and any required performance.

PAINTING: (Temperature and Humidity Dependent) Can be painted after 30 minutes at 75°F and 50% relative humidity. For best results, a minimum of 2 hours dry time is required before painting with latex or oil base paint. Allow extra dry time during periods of high humidity and/or cool temperatures.

Always use a shellac sealer before applying lacquer.

CLEAN-UP: Clean tools and excess sealant with soap and water or a damp cloth while still wet.

LIMITATIONS

Not for use below grade, on aquariums, or for marine use below the water line.

Never use in architectural joints, joints subject to heavy abrasion, wear or joints frequently under water.

Apply at temperatures above 40°F.

For indoor and exterior use.

Do not apply when rain or moisture is expected.

Do not apply to frozen or frost covered surfaces.

Protect from freezing

SHELF LIFE: Sherwin- Williams® 950A Siliconized Acrylic Latex Caulk will exhibit a 24 month shelf life from the date of manufacture when stored at room temperature.

PRECAUTIONS

Use only with adequate ventilation. Avoid contact with eyes and skin. Wash hands after using. Do not transfer contents to other containers for storage. In case of eye contact, flush with water. Get medical attention if irritation persists. If swallowed, get medical attention immediately. DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN.

COVERAGE IN LINEAL FEET
ONE CARTRIDGE (10, 10.1, 10.3 FL. OZ.)

Width in Inches	Depth in Inches: 1/8"	1/4"	3/8"	1/2"
1/8"	99			
1/4"	49	24		
3/8"	33	20	11	
1/2"	24	12	8	6
5/8"	20	10	7	5
3/4"	16	8	6	4
7/8"	14	7	5	4
1"	12	6	4	3

When using this reference chart, you MUST consider the physical limitations of the product you are using. Not all products can be used in the gap sizes shown.

1.0 EXECUTIVE SUMMARY

A lead-based paint inspection was conducted at Tomlinson Library and Crabaugh Hall, located on the campus of Arkansas Tech University, Russellville, Arkansas under the direction of Mr. Dennis Hill of Arkansas Tech University on April 16, 2010. The areas of inspection were the south facing porches of each building. The inspection was conducted by Mr. Mike Cole, Certified Inspector/Risk Assessor, Arkansas Department of Environmental Quality (ADEQ) certification #000248.

This inspection was conducted following the U.S. Department of Housing and Urban Development (HUD) Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing with the 1997 revisions and all State and Local regulations except that a different visible color shall, by itself, result in a separate testing combination for a room equivalent. The standard for lead-based paint as per EPA and the State of Arkansas Department of Natural Resources of 1.0 mg/cm^2 was followed. All requirements for the RMD XRF usage contained in the Performance Characteristics Sheet for the specific XRF were followed.

The inspection approach identified painted surfaces in the target areas as components that can generally be defined as architectural features of the building. Components consist of columns, soffit, fascia, doors, doorjambs, door casings, window casings, windowsills, etc. These are the visible parts of the building. Components that are painted, stained, shellacked, varnished, coated, or covered with wallpaper are tested. Each component may be represented many times in a single area. It is not necessary to test each of these components in an area as long as they appear to have the same paint history. A surface-by-surface survey was conducted using a Niton X-Ray Fluorescence Spectrometer (XRF) model XLp 300, serial number 1537. This newer technology XRF allows for a much lower detection level and does not require substrate correction for most applications. Examples of additional work projects suitable for this type of instrument area personnel exposure testing as well as consumer product testing.

The original Tomlinson Building in Russellville, Arkansas, was built as a two-story unit with a basement in 1936 and consists of masonry exterior finishes and gabled tile roofing. Crabaugh Hall in Russellville, Arkansas, was built as a three-story unit in 1972 and consists of masonry exterior finishes and gabled tile roofing. Both buildings have south facing porticos.

A surface-by-surface investigation for lead-based paint was conducted on April 16, 2010 by Mr. Mike Cole of EEG on specified sections of Tomlinson and Crabaugh Buildings. Testing was performed using a Niton X-Ray Fluorescence Spectrometer (XRF) model XLp 300, serial number 1537.

The inspection indicated that lead-based paint is present on the following areas:

Tomlinson Hall

XRF Reading #	XRF Reading in mg/cm²	Material Description
21	1.7	White Wood Trim on East Support Column at Main Entry of Tomlinson
25	4.4	White Wood Scroll on Upper Support Column at Main Entry of Tomlinson
26	8.2	White Wood Trim on Upper Support Column at Main Entry of Tomlinson
27	8.1	White Wood Trim on Upper Support Column at Main Entry of Tomlinson
30	6.1	White Wood Siding on Gable End at Main Entry of Tomlinson
31	5.3	White Wood Siding on Gable End at Main Entry of Tomlinson
33	6.2	White Wood Dental Moulding on Gable End at Main Entry of Tomlinson
35	7.8	White Wood Trim on Dental Moulding on Gable End at Main Entry of Tomlinson
36	5.8	White Wood Trim on Dental Moulding on Gable End at Main Entry of Tomlinson
39	1.7	White Wood Siding on Gable End at Main Entry of Tomlinson
44	3.4	White Wood Dental Moulding on Gable End at Main Entry of Tomlinson
45	6.8	White Wood Dental Moulding on Gable End at Main Entry of Tomlinson
46	8.1	White Wood Trim on Dental Moulding on Gable End at Main Entry of Tomlinson
47	8.4	White Wood Trim on Dental Moulding on Gable End at Main Entry of Tomlinson
48	2.8	White Wood Trim Above Dental Moulding on Gable End at Main Entry of Tomlinson
51	3.2	White Wood Soffit at Main Entry of Tomlinson
55	5.6	White Wood Soffit at Main Entry of Tomlinson
57	3.6	White Wood Door Casing West Side at Main Entry of Tomlinson
63	1.4	White Wood Door Casing East Side at Main Entry of Tomlinson

Crabaugh Hall

XRF Reading #	XRF Reading in mg/cm²	Material Description
		No Lead Based Paint was Identified

Materials that are not considered lead based paint by USEPA definition but that may contain lead in smaller quantities, could pose potential risks during certain job tasks such as scraping, grinding or sanding. OSHA defines lead containing materials as having ANY measurable concentration of lead. Based on a review of data from the XRF measurements, it is EEG's opinion that care should be taken, such as utilizing lead safe work practices, while working with the following materials:

Tomlinson Hall

XRF Reading #	XRF Reading in mg/cm²	Material Description
12	<0.2	White Wood Trim on West Support Column at Main Entry of Tomlinson
13	<0.5	White Wood Trim on West Support Column at Main Entry of Tomlinson
14	<0.73	White Wood Trim on West Base Support Column at Main Entry of Tomlinson
15	<0.22	White Wood Trim on West Base Support Column at Main Entry of Tomlinson
16	<0.35	White Wood Trim on East Base Support Column at Main Entry of Tomlinson
17	<0.45	White Wood Trim on East Base Support Column at Main Entry of Tomlinson
18	<0.6	White Wood Trim on West Base Support Column at Main Entry of Tomlinson
19	<0.45	White Wood Trim on West Base Support Column at Main Entry of Tomlinson
22	<0.45	White Wood Trim on East Support Column at Main Entry of Tomlinson
23	<0.6	White Wood Trim on East Support Column at Main Entry of Tomlinson
24	<0.44	White Wood Scroll on Upper Support Column at Main Entry of Tomlinson
29	<0.24	White Wood Ledge Lower Trim at Main Entry of Tomlinson
34	<0.38	White Wood Dental Moulding on Gable End at Main Entry of Tomlinson
37	<0.39	White Metal Flashing on Ledge at Main Entry of Tomlinson
38	<0.32	White Metal Flashing on Ledge at Main Entry of Tomlinson
40	<0.38	White Wood Siding on Gable End at Main Entry of Tomlinson
41	<0.49	White Wood Siding on Gable End at Main Entry of Tomlinson
42	<0.34	White Wood Trim on Round Window at Main Entry of Tomlinson
43	<0.31	White Wood Trim on Round Window at Main Entry of Tomlinson
52	0.5	White Wood Soffit at Main Entry of Tomlinson
54	<0.51	White Wood Trim on Roof Line at Main Entry of Tomlinson
56	0.8	White Wood Door Casing West Side at Main Entry of Tomlinson
62	0.5	White Wood Door Casing East Side at Main Entry of Tomlinson

Crabaugh Hall

XRF Reading #	XRF Reading in mg/cm²	Material Description
		No Lead Based Paint was Identified

2.0 METHODOLOGY

The format used for the lead-based paint survey and assessment includes the following items:

2.1 Definition of Room Equivalent

A **Room Equivalent** is an identifiable part of a building, such as a room, the exterior sides, or an exterior area. Hallways, stairways, and exterior areas are all examples of room equivalents.

2.2 Delineation of Room Equivalent

Each room equivalent is made up of **Components**. Components may be located inside or outside a building. For example, components in a room are the ceiling, floor, walls, a door and its casing, the window sash, and window casings. The **Substrate** is the material underneath the paint. Many substrates exist; however, the HUD Final Guidelines recommend classifying substrates into one of six substrate types: brick, concrete, drywall, metal, plaster, and wood. These substrate types are intended to include a broad range of materials. If the true substrate is not one of the six types, the substrate that most closely matches the true substrate is selected. For substrates on top of substrates, such as plaster on concrete, the substrate directly beneath the painted surface is used. A **Testing Combination** is characterized by the room equivalent, component, substrate, and visible color of paint. The **Test Location** is a specific area on a testing combination where the XRF (x-ray fluorescence) instrument tests for lead-based paint.

2.3 Sampling Strategies

The **Sampling Strategy** adheres to the EPA Performance Characteristic Sheet for the particular XRF instrument used, as well as the manufacturer's modifications and recommendations. The XRF used for detection of lead-based paint in the quarters is the RMD X-Ray Fluorescence Spectrometer (XRF) model LPA-1, serial number 1537. It was manufactured by RMD, Inc., 44 Hunt Street, Watertown, Massachusetts 02172. Each different testing combination for all room equivalents will be tested by XRF. According to the EPA/HUD Guidelines, a lead reading by XRF of 1.0 mg/cm^2 or above is considered positive for the presence of lead-based paint. Below 1.0 mg/cm^2 is considered negative. If there are any inconclusive readings, a paint-chip sample will be collected for laboratory analysis. Laboratory analysis will only be performed by an EPA NLLAP (National Lead Laboratory Accreditation Program) or AIHA ELLAP (Environmental Lead Laboratory Accreditation Program) approved laboratory. The paint-chip sample will be taken from a four square inch area that is representative of the paint on the testing combination and that is located in an unobtrusive area. Results are given in percent lead by weight and as mg/cm^2. According to the EPA/HUD Guidelines, a result of 0.5 percent or greater is considered positive. All other results are negative. There is no inconclusive range for laboratory measurements / results.

2.4 Chain of Custody Procedures

For samples physically collected, the sample is placed in a proper container and given a unique identification number. This number is then entered on the chain-of-custody form which the inspector/risk assessor signs. A copy is retained and the original is sent with the sample to an accredited laboratory. Upon receipt, laboratory personnel verify that samples and chain-of-custody information match and sign the form. A copy is retained by the laboratory and the signed original is returned with the results to the inspector/risk assessor.

2.5 Quality Control Procedures

Data validity is key when reviewing or completing environmental investigations. To satisfy both Environmental Restoration and EEG that the results obtained are accurate to the best of our abilities, quality control applications were utilized while performing work with the XRF instrumentation.

A National Institute of Standards and Testing (NIST) Traceable Standard was used at the prior to test readings and at the conclusion of work to document the accuracy of the XRF. The inspection will not be considered valid should either the initial reading or post reading on the control sample be found outside the manufactures recommended tolerance value.

3.0 FINDINGS

3.1 Exterior Lead-Based Paint Inspection Results

The following exterior tested painted components were found to contain lead in a concentration greater than the Federal/State threshold of 1.0 mg/cm^2 of surface as measured by a XRF:

SAMPLE LOCATION	SAMPLE COMPONENT	SAMPLE I.D.	Sample Color	XRF RESULTS mg/cm^2
Trim on East Support Column at Main Entry of Tomlinson	Wood	21	White	1.7
Trim on East Support Column at Main Entry of Tomlinson	Wood	25	White	4.4
Trim on Upper Support Column at Main Entry of Tomlinson	Wood	26	White	8.2
Trim on Upper Support Column at Main Entry of Tomlinson	Wood	27	White	8.1
Siding on Gable End at Main Entry of Tomlinson	Wood	30	White	6.1
Siding on Gable End at Main Entry of Tomlinson	Wood	31	White	5.3
Dental Moulding on Gable End at Main Entry of Tomlinson	Wood	33	White	6.2
Trim on Dental Moulding on Gable End at Main Entry of Tomlinson	Wood	35	White	7.8
Trim on Dental Moulding on Gable End at Main Entry of Tomlinson	Wood	36	White	5.8
Siding on Gable End at Main Entry of Tomlinson	Wood	39	White	1.7
Dental Moulding on Gable End at Main Entry of Tomlinson	Wood	44	White	3.4
Dental Moulding on Gable End at Main Entry of Tomlinson	Wood	45	White	6.8
Trim on Dental Moulding on Gable End at Main Entry of Tomlinson	Wood	46	White	8.1
Trim on Dental Moulding on Gable End at Main Entry of Tomlinson	Wood	47	White	8.4
Trim Above Dental Moulding on Gable End at Main Entry of Tomlinson	Wood	48	White	2.8
Soffit at Main Entry of Tomlinson	Wood	51	White	3.2
Soffit at Main Entry of Tomlinson	Wood	55	White	5.6
Door Casing West Side at Main Entry of Tomlinson	Wood	57	White	3.6
Door Casing East Side at Main Entry of Tomlinson	Wood	63	White	1.4

3.2 Surfaces that are above detection levels for Lead

Materials that are not considered lead based paint by USEPA definition but that may contain lead in smaller quantities, could pose potential risks during certain job tasks such as scraping, grinding or sanding. OSHA defines lead containing materials as having ANY measurable concentration of lead. Based on a review of data from the XRF measurements, it is EEG's opinion that care should be taken, such as utilizing lead safe work practices, while working with the following materials:

SAMPLE LOCATION	SAMPLE COMPONENT	SAMPLE I.D.	Sample Color	XRF RESULTS mg/cm^2
Trim on West Support Column at Main Entry of Tomlinson	Wood	12	White	<0.2
Trim on West Support Column at Main Entry of Tomlinson	Wood	13	White	<0.5
Trim on West Base Support Column at Main Entry of Tomlinson	Wood	14	White	<0.73
Trim on West Base Support Column at Main Entry of Tomlinson	Wood	15	White	<0.22
Trim on East Base Support Column at Main Entry of Tomlinson	Wood	16	White	<0.35
Trim on East Base Support Column at Main Entry of Tomlinson	Wood	17	White	<0.45
Trim on West Base Support Column at Main Entry of Tomlinson	Wood	18	White	<0.6
Trim on West Base Support Column at Main Entry of Tomlinson	Wood	19	White	<0.45
Trim on East Support Column at Main Entry of Tomlinson	Wood	22	White	<0.45
Trim on East Support Column at Main Entry of Tomlinson	Wood	23	White	<0.6
Scroll on Upper Support Column at Main Entry of Tomlinson	Wood	24	White	<0.44
Ledge Lower Trim at Main Entry of Tomlinson	Wood	29	White	<0.24
Dental Moulding on Gable End at Main Entry of Tomlinson	Wood	34	White	<0.38

SAMPLE LOCATION	SAMPLE COMPONENT	SAMPLE I.D.	Sample Color	XRF RESULTS mg/cm^2
Flashing on Ledge at Main Entry of Tomlinson	Metal	37	White	<0.39
Flashing on Ledge at Main Entry of Tomlinson	Metal	38	White	<0.32
Siding on Gable End at Main Entry of Tomlinson	Wood	40	White	<0.38
Siding on Gable End at Main Entry of Tomlinson	Wood	41	White	<0.49
Trim on Round Window at Main Entry of Tomlinson	Wood	42	White	<0.34
Trim on Round Window at Main Entry of Tomlinson	Wood	43	White	<0.31
Soffit at Main Entry of Tomlinson	Wood	52	White	0.5
Trim on Roof Line at Main Entry of Tomlinson	Wood	54	White	<0.51
Door Casing West Side at Main Entry of Tomlinson	Wood	56	White	0.8
Door Casing East Side at Main Entry of Tomlinson	Wood	62	White	0.5

Tomlinson Building South Entry

Tomlinson Building South Entry

ARKANSAS TECH UNIVERSITY
TOMLINSON BUILDING AND CRABAUGH HALL
RUSSELLVILLE, ARKANSAS

EEG Project #10-0117-018

EEG
Environmental
Enterprise Group, Inc.

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Tomlinson Building Column Detail

Tomlinson Building Gable Detail

ARKANSAS TECH UNIVERSITY
TOMLINSON BUILDING AND CRABAUGH HALL
RUSSELLVILLE, ARKANSAS

EEG Project #10-0117-018

EEG
Environmental
Enterprise Group, Inc.

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Crabaugh Hall South Entry

Crabaugh Hall Gable Detail

ARKANSAS TECH UNIVERSITY
TOMLINSON BUILDING AND CRABAUGH HALL
RUSSELLVILLE, ARKANSAS

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