

INVITATION FOR BIDS

BID NUMBER: 2008-019 Third-bid **DATE:** February 23, 2009

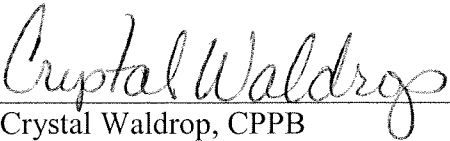
OPENING DATE AND TIME: March 3, 2009 @ 3:30 p.m. (EST)

ADDRESS: Newberry County Court House Annex
County Administrator's Office, Procurement
Post Office Box 156
1309 College Street, Newberry SC 29108

PROCUREMENT FOR: Roof replacement and removal of existing roof at the Piedmont
Technical College Newberry Campus

Subject to the conditions, provisions and the enclosed specifications, sealed bids will be received at this office until the stated date and time and then publicly opened. Any bid received after the scheduled deadline, will be immediately disqualified. The County assumes no responsibility for the delivery of bids which are mailed. BID NUMBER MUST BE SHOWN ON THE OUTSIDE OF ENVELOPE.

DIRECT ALL INQUIRIES TO:



Crystal Waldrop, CPPB
Purchasing Director
Post Office Box 156
Newberry SC 29108

NOTICE TO BIDDERS: Each bidder shall fully acquaint himself with conditions relating to the scope and restrictions attending the execution of the work under the conditions of this bid. The failure or omission of a bidder to acquaint himself with existing conditions shall in no way relieve him of any obligation with respect to this bid. All amendments to and interpretations of this solicitation shall be in writing and issued by the Purchasing Director of the County. Newberry County shall not be legally bound by an amendment or interpretation that is not in writing.

BIDDERS SCHEDULE

BID NUMBER: 2008-019 Third Bid **DATE:** February 23, 2009

OPENING DATE AND TIME: **March 3, 2009 @ 3:00 p.m. (EST)**

OPENING LOCATION: Newberry County Court House Annex
Conference Room 1309 College Street
Newberry, SC 29108

PROCUREMENT: **Removal of existing asphalt roof, installation of new asphalt shingle roof and install trim on fascia, soffit and siding by general contractor**

Lump Sum Bid: _____

Square foot pricing for wood replacement: _____

***All prices are to include applicable sales taxes at 7% and any other fees that may be incurred with, but not limited to the removal and disposal of the existing shingles, materials or other debris.**

*This solicitation will act as the contract for the project.

*By signing below, the signer has the authority to enter into an agreement with Newberry County and will be responsible for the fulfillment of the services stated in this solicitation.

BIDDER: _____ **SIGNATURE:** _____

Address: _____

Phone & Fax: _____

FEIN: _____

INSTRUCTIONS TO BIDDERS

1. Only one copy of bid is required unless otherwise specified.
2. Bids, amendments thereto or withdrawal request must be received by the time advertised for bid openings to be timely filed. It is the vendor's sole responsibility to insure that these documents are received by the purchasing office at the time indicated in the bid document.
3. When specifications or descriptive papers are submitted with the bid, enter bidder's name thereon.
4. Submit your signed bid on the bidder's schedule provided. Show bid number on envelope as instructed and the bid name or description. Newberry County accepts no responsibility for unmarked or improperly marked envelopes.
5. Bidders must clearly mark as "Confidential" each part of their bid which they consider to be proprietary information that could be exempt from disclosure under Section 30-4-40 Code of Laws of South Carolina, 1976, as amended, (also known as the Freedom of Information Act). The County reserves the right to determine whether this information should be exempt from disclosure and no legal action may be brought against the County or its agents for its determination in this regard.
6. By submission of a bid, you are guaranteeing that all goods and services meet the requirements of the solicitation during the contract period.
7. Tie bids will be resolved in accordance with the provisions of the Newberry County Purchasing Ordinance.
8. A copy of the bidder's W-9 shall be included in the submission.

GENERAL PROVISIONS

1. The County of Newberry reserves the right to reject any and all bids, to cancel a solicitation, and to waive any technicality if deemed to be in the best interest of the County.
2. Unit prices will govern over extended prices unless otherwise stated in this bid invitation.
3. **PROHIBITION OF GRATUITIES:** South Carolina law and the Newberry County Purchasing Ordinance prohibit the giving of anything of value in return for favors or other preferential treatment in the purchasing process. Bidders should govern themselves accordingly.
4. **BIDDERS QUALIFICATION:** Bidders must, upon request of the county, furnish satisfactory evidence of their ability to furnish products or services in accordance with the terms and conditions of these specifications. The County reserves the right to make the final determination as to the bidder's ability to provide the products or services

requested herein. Bidder determined to be irresponsible bidders are not allowed to bid to provide the County goods or services.

5. **BIDDERS RESPONSIBILITY:** Each bidder shall fully acquaint himself with conditions relating to the scope and restrictions attending the execution of the work under the conditions of this bid. It is expected that this will sometimes require on-site observation. The failure or omission of a bidder to acquaint himself with existing conditions shall in no way relieve him of any obligation with respect to this bid or to the contract.
6. **AWARD CRITERIA:** The contract shall be awarded to the lowest responsible and responsive bidder(s) whose bid meets the requirements and criteria set forth in the Invitation for Bid. A ward may be made to one or a multiple of bidders, whichever deems to be in the best interest of the County, or unless otherwise stated on the bidder's schedule.
7. **WAIVER:** The County reserves the right to waive any Instruction to Bidders, General or Special Provisions, General or Special Conditions, or specifications deviation if deemed to be in the best interest of the county.
8. **COMPETITION:** This solicitation is intended to promote competition. If any language, specifications, terms and conditions, or any combination thereof restricts or limits the requirements in this solicitation to a single source, it shall be the responsibility of the interested vendor to notify the Purchasing Director on in writing within five (5) days prior to the opening date. The solicitation may or may not be changed but a review of such notification will be made prior to the award.
9. **REJECTION:** Ambiguous bids which are uncertain as to terms, delivery, quantity, or compliance with specifications may be rejected or otherwise disregarded if such action is in the best interest of the County.
10. **RIGHT TO PROTEST:** Any prospective bidder, offeror, or contractor, who is aggrieved in connection with the solicitation of a contract shall protest in writing to the Purchasing Director within ten (10) calendar days of the date of issuance of the Invitation to Bid, Requests for Proposals or other solicitation documents, whichever is applicable, or any amendment thereto, if the amendment is at issue. Any actual bidder, offeror, or contractor, who is aggrieved in connection with the intended award or award of a contract, shall protest in writing to the purchasing director within ten (10) calendar days of the notification of intent to award or statement of award.
11. **PROTEST PROCEDURE:** A protest shall be in writing, submitted to the purchasing director, and shall set forth the specific grounds of the protest with enough particularity to give notice to the issues to be decided.

GENERAL CONDITIONS

1. **DEFAULT:** In case of default by the contractor, the County reserves the right to purchase any or all items in default in the open market, charging the contractor with any excessive costs. Should such charge be assessed, no subsequent bids of the defaulting contractor will be considered until the assessed charge has been satisfied.
2. **NON-APPROPRIATION:** Any contract entered into by the County resulting from this bid invitation shall be subject to cancellation without damages or further obligation when funds are not appropriated or otherwise made available to support continuation of performance in a subsequent fiscal period or appropriated year.
3. **HOLD HARMLESS AND INSURANCE:** The successful bidder shall indemnify and hold harmless the County of Newberry and all County officers, agents and employees against all suits or claims for personal injury or property damage resulting from, or arising from, the successful bidder's performance of the contract, as well as against any suits or claims of any character brought against the County or its agents or employees by reason of any claim of infringement of any patent, trade mark, trade dress, or copyright, including reimbursement to the County for all attorneys fees and court costs incurred by the County in defending itself or its agents or employees against any such claim or suit. In addition, the successful bidder will maintain a public liability policy with minimum limits of \$500,000 per occurrence, or \$1,000,000 single limit, for damages arising from acts which occur during the contract period, with the County of Newberry named as an additional insured; the successful bidder shall also maintain workers compensation and vehicle liability insurance in the amounts required by statutory law. Proof of such coverage will be provided upon demand or as otherwise provided in the bid specifications.
4. **CONTRACT ADMINISTRATION:** Questions or problems arising after award of this contract shall be directed to the Purchasing Director, P.O. Box 156, Newberry, SC 29108, or by calling 803-321-2100.
5. **FORCE MAJEURE:** The Contractor shall not be liable for any excess costs if the failure to perform the contract arises out of causes beyond the control and without fault or negligence of the contractor. Such causes may include, but are not restricted to acts of God or of a public enemy, acts of Government in either its sovereign or contractual capacity, fires, floods, epidemics, quarantine restrictions, strikes, freight embargoes, and unusually severe weather; but in every case the failure to perform must be beyond the control and without the fault or negligence of the contractor. If the failure to perform is caused by default of a subcontractor, and if such default arises out of causes beyond the control of both the contractor and subcontractor and without excess costs for failure to perform, unless the supplies or services to be furnished by the subcontractor were obtainable from other sources in sufficient time to permit the contractor to meet the required delivery schedule.

6. **PUBLIC RELEASE:** Contractor agrees not to refer to award of this contract in commercial advertising in such a manner as to state or imply that the products or services provided are endorsed or preferred by the User.

7. **QUALITY OF PRODUCT:** Unless otherwise indicated in this bid it is understood and agreed that any items offered or shipped on this bid shall be new, in first class condition, and without defect that all containers shall be new and suitable for storage or shipment, and that prices include standard commercial packaging and shipping to the specified destination in Newberry County. No demonstration models shall be sold as new, without prior written permission of the County.

8. **S.C. LAW CLAUSE:** Upon award of a contract under this bid, the person, partnership, association or corporation to whom the award is made must comply with the laws of South Carolina which require such person or entity to be authorized and/or licensed to do business with this State. Notwithstanding the fact that applicable statutes may exempt or exclude the successful bidder from requirements that it be authorized and/or licensed to do business in this State, by submission of this signed bid, the bidder agrees to subject himself to the jurisdiction and process of the courts of the State of South Carolina as to all matters and disputes arising or to arise under the contract and the performance thereof, including any questions as to the liability for taxes, licenses, or fees levied by the State.

9. **ASSIGNMENT:** No contract or its Provisions may be assigned, sublet, or transferred without the written consent of the Purchasing Director.

10. **AFFIRMATIVE ACTION:** The successful bidder will take affirmative action in complying with all Federal and State requirements concerning fair employment of the handicapped, and concerning the treatment of all employees, without regard or discrimination by reason of race, color, religion, sex, national origin or physical handicap.

11. **DELIVERIES:** All deliveries shall be FOB Destination. It is agreed by the parties hereto that delivery by the contractor to the common carrier does not constitute delivery to the County. Any claim for loss or damage shall be between the contractor and the carrier.

12. **APPROPRIATE S.C. SALES TAX** shall be included as a line item in the bid unless other wise noted in the request from the County. The rate for Newberry County is 7%.

13. **PAYMENT TERMS:** Payment will be made within thirty (30) days of acceptance of the completed order.

14. **BID BOND:** For each bid in excess of \$25,000.00 each bidder will submit with their bid a bond in the amount of 5% of the total price of the bid submitted. The bid bonds will be returned to the unsuccessful bidders once the county accepts the lowest most responsive bid. If the most responsive bidder fails to perform the responsibility of the bid within 10 days of the award, then the bid bond will be forfeited to the county as liquidated damages and the next lowest bidder will be awarded the bid. Bid bonds may be in the form of a surety, a cashier's check or an unconditional letter of credit in favor of Newberry County issued by a commercial bank in South Carolina.

15. **PERFORMANCE AND PAYMENT BONDS:** The chosen vendor will be required to submit to the County both a performance bond and payment bond in the amount of 100% of the contract price before commencing with the work. Both bonds will be issued from a surety company with an "A" minimum rating of performance as stated in the most current publication of Best Key Rating Guide, Property Liability.

Project Scope:

This bid is for roof shingle removal & subsequent shingle replacement for Piedmont Technical College, Newberry, SC. The attached sketch #1 shows the general areas of shingle replacement. Included will be the cleaning and covering of wood fascia & trim and lap board siding. The fascia and trim will be covered with vinyl siding and the lap board siding will be covered with vinyl siding. Replacement of defective wood at the specified unite rate, as approved by the owner will be included.

Building Description:

- **Approx. 23,783 sq. ft. of roof surface. Roofing surface includes asphalt shingles and cedar shingles.** *(For estimate purposes only. Contractor will need to confirm before bid.)*
- **Do not include the Acrylic Coating Roof in the bid.**
- **Approx. 1,317 linear feet of FACIA- wood material – cover with vinyl siding.** *(For estimate purposes only. Contractor will need to confirm before bid.)*
- **Approx. 4100 sq. ft. of lap board siding - cover with underlayment and vinyl siding.** *(For estimate purposes only. Contractor will need to confirm before bid.)*

SECTION I

REMOVAL OF EXISTING ASPHALT SHINGLES, NAILS, FELT PAPER AND OTHER ASSOCIATED ROOFING MATERIALS

GENERAL

- 1.1 Remove all existing asphalt roofing materials in preparation for new asphalt shingle installation. Furnish all labor, equipment and supplies to accomplish the project. Removal of all debris is the responsibility of the Contractor on a daily basis. Contractor will be required to barricade areas that could pose dangers to the public.
- 1.2 QUALITY ASSURANCE
- A. Contractors / Roofing Qualifications Criteria: As an absolute minimum, all contractors/installers shall meet the following criteria. Qualification Criteria includes, but is not limited to:
1. Be a roofing contractor with 7 continuous years experience specializing in the specified roofing system.
 2. Have operated under the same name for at least 5 years.
 3. Presently have the staff and equipment on board to perform the contracted work.

4. Contractor should be able to self-perform all work described under this contract without sub-contracting. If sub-contractors are required, they must be listed on the bid form and be approved by the owner prior to award of contract. If sub-contractor is not approved the low bidder may replace with an approved sub-contractor or forfeit the low bid status. If an agreement cannot be made with the low bidder, the County will choose the next lowest responsive bidder.
5. Be able to maintain a full-time supervisor/foreman on job site during times that roofing work is in progress and who is experienced in roofing systems removal similar to type and scope required for this Project.

B. Special Provisions:

1. Approved dumpster for disposal. Disposal fees are to be included in the bid. All materials and products must be taken off premises to an approved land fill.
2. The entire work area will be cleaned to “before condition”. All nails to be removed from the area.

C. Roofing Conference for existing asphalt shingle removal.

1. Review foreseeable methods and procedures related to roofing removal:
 - a. Tour representative areas of exiting roofs, and discuss condition of underlayment, roof drains, penetrations, and other preparatory work performed by other trades.
 - b. Review and finalize construction schedule related to roofing work and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
 - c. Review weather and forecasted weather conditions and procedures for coping with unfavorable conditions, including possibility of temporary roofing techniques.

1.3 PROJECT CONDITIONS

- A. Weather Limitations: Proceed with removing the asphalt shingles and related materials only when existing and forecasted weather conditions will permit work to be performed. Building must be keep water tight at all times (provide necessary labor, equipment, materials and other to assure unprotected areas are waterproof during roofing transition times: (ex. sudden weather hazardous, nights and weekends)

2.1 EXAMINATION

Once the existing roofing materials are removed, examine for compliance with requirements for conditions that might affect performance of asphalt shingles. Do not proceed with installation until unsatisfactory conditions have been corrected. A representative with the County of Newberry or with Piedmont Technical College will monitor the progress of the project.

2.2 PREPARATION

- A. Clean substrates of projections and substances detrimental to application. Cover knotholes or other minor voids in substrate with sheet metal flashing secured with non-corrosive roofing nails unless area is deteriorated beyond local repair. This method should only be used for small applications. If the deterioration affects the new roof installation total replacement the contractor will advise the Owner of concern. The Owner and Contractor will decide how to satisfy the defected area.
- B. Special care must be taken while removing or disrupting roofing materials around the Acrylic Coating roof. The new roof will tie back into the existing Acrylic Coating and must assure a solid adherence to prevent leakage. Limited traffic will be allowed on the Acrylic Roof, only to make the necessary transitions. No materials to be staged on the Acrylic Coating Roof.**

2.3 ALLOWANCE

Replace damaged materials and install with new materials that meets standard roofing practices. **Contractor will include a unit price per square foot for replacement of defective material. This will be used to replace bad materials such as plywood or other problem discovered during removal or installation. The Contractor must notify the Owner of the observation and advised of the repair cost before proceeding. The Owner will approve or disapprove. A copy of the materials invoice used for repair will accompany the Contractors invoice for file.**

2.4 COMPLIANCE

Contractor must comply with all OSHA, STATE, FEDERAL AND LOCAL regulations including but not limited to **roof perimeter protection, barriers and safety devices.**

2.5 CLEANUP

- A. Daily: Comply with the following on a daily basis; no exceptions:
1. Do not allow trash, debris, waste, defective materials, and unused materials, equipment and tools to collect on the roof. Remove these items from the roof daily, and dispose of in approved manner and container.
 2. Keep work area clean and free of clutter.
 3. Cover all materials, equipment, and tools completely at the end of each day to prevent water entry and so that covers will not loosen or separate during windy conditions. Contractor must make provisions to prevent injury to facility occupants (especially outside area).
 4. Promptly remove all unused or unneeded sharp or pointed objects, including sheet metal that may puncture roof membrane from the roof.

5. Correct all defects not corrected during normal roofing operations by end of each work day.
- B. Completion Of Roofing Operations: Comply with the following at the completion of roofing operations; no exceptions:
1. Remove all trash, debris, waste, defective materials, and unused materials, equipment and tools, resulting from these roofing operations, from the roof and off the site. Dispose of in approved manner and container.
 2. Broom clean the new roof. Use broom with soft bristles.
 3. Clean and restore all surfaces, damaged or disturbed during roofing operations, to the original pre-roofing operations conditions and to the satisfaction of the Owner.
 4. Remove roofing cement from surfaces other than those requiring roofing cement.
 5. Where landscaping has been damaged or disturbed, remove all ruts and depressions in landscaping, smooth repaired areas, plant grass to match existing, and replace shrubbery, ground cover, and trees to the original pre-roofing operations conditions and to the satisfaction of the Owner.

SECTION II: INSTALL NEW ASPHALT SHINGLE ROOF

PART 1 - GENERAL

1.1 SUBMITTALS

- A. Product data for each type of product specified, including details of construction relative to materials, dimensions of individual components, profiles, textures, and colors.
- B. Samples for verification in the form of 2 full-size units of asphalt shingle indicated showing the full range of variations expected in these characteristics.

1.2 QUALITY ASSURANCE

- A. Installer Qualifications Criteria: As an absolute minimum, all roofing contractors/installers shall meet the following criteria. Qualification Criteria includes, but is not limited to:
 1. Be a roofing contractor with 7 continuous years experience specializing in the specified roofing system and have operated under the same name for at least 5 years.
 2. Be certified by the roofing system manufacturer prior to date of advertisement for bids. Provide copy of certification for Owner prior to awarding roofing work. Obtain written certification from manufacturer of roofing system certifying that Installer is approved by manufacturer to install specified roofing system. Provide copy of certification for Owner prior to awarding roofing

work. Installer shall have been trained, qualified, certified, and approved by the manufacturer.

3. Presently have the staff and equipment on board to perform the contracted work and able to self-perform all work described under this solicitation without sub-contracting.
4. Never have had a roofing system manufacturer's certification revoked because of unsatisfactory performance.
5. Have completed at least 80% of projects on time and under budget and completed at least 5 projects of comparable size and complexity within the last 3 years. **Documentation of the projects must be in the contractor's bid submittal.**
7. Have not, under this name or any other name, ever filed for protection under either Chapter 7 or 11 of the US Bankruptcy Laws within last 7 years.
8. Have verifiable means to provide necessary funds to honor contractor's **2-year warranty.**
9. Be able to maintain a full-time supervisor/foreman who is on job site during times that roofing work is in progress and who is experienced in installing roofing systems similar to type and scope required for this Project.

B. Manufacturer Qualifications:

1. Shingle manufacturer shall have roof systems of the type specified currently in service for at least as long as the specified warranty period or be able to provide roof that the shingles will last for the warranty period.
2. Because of extended warranty periods associated with roof products, the shingle manufacture or name that appears on the packaging shall not have filed for protection under the provisions of either Chapter 7 or Chapter 11 bankruptcy laws during the last ten years.

C. Wind-Resistance-Test Characteristics: Where wind-resistant asphalt shingles are indicated, provide products identical to those tested according to ASTM D 3161 or UL 997 and passed. Identify each bundle of asphalt shingles with appropriate markings of applicable testing and inspecting agency.

D. UL and FM Listing: Provide factory attached UL and FM labels on all products and materials that have been specified to be produced under these labels. Products and materials without these labels will not be accepted.

E. Periodic Inspections By Shingle Manufacturer's Representative: A technical representative (not a sales representative) of the shingle manufacturer shall make periodic visits to the site to inspect all shingles in-place and that are being installed. The Contractor shall ensure that the shingle manufacturer's representative has a copy of the project specifications, including all modifications prior to the representative making a visit. As a minimum, this representative shall:

1. Be on-site at startup to ensure that the roofing contractor fully understands the shingle system and all components of the shingle system, including the

substrate, being installed, the specifications, and the manufacturer's requirements.

2. Make at least one inspection per week during installation.
3. Inspect not only for compliance with the manufacturer's requirements but also for compliance with the project specifications where specification requirements are more stringent than the manufacturer's requirements.
4. Report all deviations from both manufacturers' requirements and from the specifications and defective work.
5. Submit a record of each visit and a copy of each inspection report to the Owner within 2 days of the visit. Telephone reports shall be followed up in writing. Failure to submit copies of each required inspection may be interpreted as having not completed the inspections.
6. If the roofing crew continues to repeat the same installation error or errors after having been reminded of that error twice, then the owner may be request to require that the roofing contractor replace the roofing crew.

F. The Owner may, at his expense and at any time during installation, elect to have an independent observer present during installation. This observer will record and report to Owner all deviations from Contract Documents and job progress. This observer would not have the authority to change Contract Documents, direct work, approve shop drawings, or stop work. If this observer determines that the shingles or the installation are not in compliance with the Contract Documents, then the Contractor shall be responsible for all previous inspection costs and for all costs associated with correcting non-conforming materials and work and for re-inspection.

G. New Roofing Pre-Bid Conference.

1. Review foreseeable methods and procedures related to roofing work, including, but not necessarily limited to, the following:
 - a. Tour representative areas of existing roof, and discuss condition of underlayment, roof drains, penetrations, and other preparatory work performed by other trades relating to the installation of the new roof.
 - b. Review roofing system requirements: specifications, approved flashing details and other contract documents.
 - c. Review and finalize roofing schedule related to roofing work and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
 - d. Review inspection, testing, certifying, and material use accounting procedures.
 - e. Review weather and forecasted weather conditions and procedures for coping with unfavorable conditions, including possibility of temporary roofing.
 - f. Review procedures and capabilities for staging materials to be installed to eliminate the need to move materials from the staging point to the point of installation.

2. Record (Contractor) discussions of conference, including decisions and agreements or disagreements reached, and furnish a copy for each attendee. If substantial disagreements exist at the conclusion of the conference, determine how disagreements will be resolved and set a date for reconvening the conference.

- H. Reference Publications: Comply with applicable shingle provisions in the current edition of the NRCA Roofing and Waterproofing Manual for materials and installation.

1.3 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials to Project site in manufacturer's unopened bundles or containers with labels intact.
- B. Handle and store materials at Project site to prevent water damage, staining, or other physical damage. Store rolled goods on end. Comply with manufacturer's recommendations for job-site storage, handling, and protection.

1.4 PROJECT CONDITIONS

- A. Weather Limitations: Proceed with installing asphalt shingles only when existing and forecasted weather conditions will permit work to be performed according to manufacturers' recommendations and warranty requirements, and when substrate is completely dry. Building must be kept water tight at all times (provide necessary labor, equipment, materials and other to assure unprotected areas are waterproof during roofing transition times: (ex. Sudden weather hazardous, nights and weekends)

1.5 WARRANTY

- A. Warranty: Submit a special written warranty signed by manufacturer agreeing to repair or replace asphalt shingles that fail in materials or workmanship within the specified warranty period. Failures include, but are not limited to, deformation, curling, buckling, or deterioration of asphalt shingles beyond normal weathering.
 1. Warranty Period (materials): **30 years** after date of Substantial Completion as stated for the specified shingles listed under Products.
 2. Workmanship Warranty: Contractor to provide a 2 year warranty against defects due to installation of product and workmanship.

1.6 EXTRA MATERIALS

- A. Furnish extra materials described below that match products installed, are packaged with protective covering for storage, and are identified with labels clearly describing contents.
 - Furnish 1 square coverage of asphalt shingles, identical to those to be installed, in unbroken bundles.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, provide asphalt shingles produced by one of the following:
1. Shingles
 - a. (The) Celotex Corporation.
 - b. CertainTeed Corporation.
 - c. Elk Corporation of America.
 - d. GAF Building Materials Corporation.
 - e. Georgia-Pacific Corp.
 - f. Owens-Corning Fiberglas Corp.
 - g. Or approved equal to the above
 2. Ridge Vents: Ridge Vents: Acceptable to the shingle manufacturer to qualify for full specified warranty.
 - a. Ridge Filter Shinglevent; Air Vent, Inc.
 - b. Ridge Filtervent; Air Vent, Inc. (for Class A).
 - c. Cobra Ridge Vent; GAF Building Materials Corporation.
 - d. Roll Vent; Obdyke: Benjamin Obdyke, Inc.
 - e. Trimline; Trimline Roof Ventilation Systems.

2.2 ASPHALT SHINGLES

- A. Architectural Shingles: The standard for bidding purpose is the Owens Corning Duration Shingle with SureNail Technology or approved equal
1. Colors, Blends, and Patterns: Quarry Gray or as approved by owner
 - a. Wind Resistance (Includes hip, ridge, cap, and valley shingles)
 - ASTM D3161, Type 1, 110 mph
 - UL 997, 110 mph
 - b. Impact Resistance: (Includes hip, ridge, cap, and valley shingles)
 - ASTM D3018
 - UL 2218 Class 4 impact resistance
 - c. Fire Resistance (Includes hip, ridge, cap, and valley shingles)
 - ASTM E108, Class A
 - UL 790 Class A
 - d. ASTM D3462
 - e. 10 year algae warranty
- B. Starter Strips for Eaves and Rakes: As recommended and provided by the manufacture that provides the shingles and that meet manufacturer's requirements for

specified warranty. Materials from manufacturers other than the manufacturer of the installed shingles are unacceptable.

- C. Hip and Ridge Shingles: Manufacturer's factory-precut units to match asphalt shingles and that meet manufacturer's requirements for specified warranty. Shingles shall meet same warranty and wind requirements as shingles used for the field. Materials from manufacturers other than the manufacturer of the installed shingles are unacceptable. Hip and Ridge shingle to match field shingles. Provide with manufacture's stain resistant treatment to inhibit staining form mold, mildew, and algae.

2.3 Metal Trim and Facia NOT USED FOR THIS PROJECT

2.4 ACCESSORIES

- A. Felt Material
 - 1. Material shall as minimum properties recommended and approved by the roof covering manufacturer. Adhere the following:
 - a. Can remain uncovered without damage per manufactures recommendations.
 - b. Be high temperature resistant.
 - c. Be designed for and be suitable for the climate of installation.
 - d. Be suitable for use under the intended roof shingles.
 - e. Shall be compatible with and not be detrimental to the roof shingles or be adversely affected by the roof shingles.
- B. Asphalt Plastic Cement: **Nonasbestos** fibrated asphalt cement, complying with ASTM D 4586.
- C. Nails: Comply with ASTM F1667, Type 1, Style 20. Aluminum or hot-dip galvanized steel; 11 gauge (0.105 inch or 12 gauge (0.120 inch) diameter barbed shank, sharp-pointed, roofing nails. Heads shall be low profile, flat, and smooth with a minimum 3/8-inch-diameter head. Nail lengths shall be sufficient to penetrate all layers of roofing materials, including multiple layers in valleys, and then penetrate in 3/4 inch into solid decking or at least 1/8 inch through plywood sheathing.
- D. Ridge Vent: High-density polypropylene, non-woven modified polyester, or other UV-stabilized plastic designed to be installed under asphalt shingles at ridge.
 - 1. Where nails are in contact with flashing, prevent galvanic action by providing nails made from the same metal as that of the flashing.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Once the existing roofing materials are removed, examine for compliance with requirements for conditions that might affect performance of asphalt shingles. Do not proceed with installation until unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Clean substrates of projections and substances detrimental to application. Cover knotholes or other minor voids in substrate with sheet metal flashing secured with non-corrosive roofing nails.
- B. Coordinate installation with wood trim, flashings and other adjoining work to ensure proper sequencing
- A. **Special care must be taken while installing the new roofing materials around the Acrylic Coating roof. The new roof will tie back into the existing Acrylic Coating and must assure a solid adherence to prevent leakage. Limited traffic allowed on the Acrylic Roof, only to make the necessary transitions. No materials will be staged on the Acrylic Coating Roof.**

3.3 INSTALLATION

- A. General: Comply with manufacturer's instructions and recommendations but not less than those recommended by ARMA's "Residential Asphalt Roofing Manual" or "The NRCA Steep Roofing Manual."
- B. Flashing: Form rain diverter as recommended by SMACNA. Install rain diverter as indicated and according to details and recommendations of the "Asphalt Roofing" section of "The NRCA Steep Roofing Manual" and ARMA's "Residential Asphalt Roofing Manual."
- C. Install asphalt shingles, beginning at roof's lower edge, with a starter strip. Fasten asphalt shingles in the desired weather exposure pattern. Use vertical and horizontal chalk lines to ensure straight coursing.
 - 1. Cut and fit asphalt shingles at ridges, and edges to provide maximum weather protection. Provide same weather exposure at ridges as specified for roof. Lap asphalt shingles at ridges to shed water away from direction of prevailing wind.
 - 2. Follow factory recommendations for fastening ridges assuring sufficient length to penetrate to substrate.
 - 3. Pattern: 1/2 shingle spacing offset at succeeding courses.
 - 4. Nailing
 - a. Set nails in a quantity, pattern, and location recommended by the shingle manufacturer to meet wind uplift requirements.
 - b. Set nails flush with shingle surfaces without crushing, cracking, or otherwise damaging the shingles.
 - c. Drive nails true so that the nails head does not enter the shingle at an angle.

- d. Seat all nails so that they do not rise up to puncture the overlapping shingle.
- e. Remove all untrue or improperly seated nails, seal all nail holes with roofing cement, and set a true nail.

D. Ridge Vents: Install ridge vents according to manufacturer's instructions.

3.4 ADJSUSTING

- A. During routine observations, if the appearance of installed work suggests, or the Owner suspects that defective materials were installed or that materials were not installed according to the specifications, the roofing contractor will be required to perform the required procedures to expose suspected materials for examination. Conforming to this requirement will be at no additional cost to the Owner. This requirement also includes, but is not limited to removing necessary materials to expose questionable elements, making satisfactory repairs, and restoring disturbed areas to a satisfactory condition.

3.5 CLEANUP

- A. Daily: Comply with the following on a daily basis; no exceptions:
 - 1. Do not allow trash, debris, waste, defective materials, and unused materials, equipment and tools to collect on the roof. Remove these items from the roof daily, and dispose of in approved manner and container.
 - 2. Keep work area clean and free of clutter.
 - 3. Do not stage materials, tools, or equipment on new shingles.
 - 4. Secure all materials, equipment, and tools to prevent movement during windy conditions.
 - 5. Cover all materials, equipment, and tools completely at the end of each day to prevent water entry and so that covers will not loosen or separate during windy conditions.
 - 6. Promptly remove all unused or unneeded sharp or pointed objects, including sheet metal, that may puncture roof material.
 - 7. Keep all nails in rigid storage containers until ready for use
 - 8. Correct all defects not corrected during normal roofing operations by end of each work day.
- B. Completion Of Roofing Operations: Comply with the following at the completion of roofing operations; no exceptions:
 - 1. Remove all trash, debris, waste, defective materials, and unused materials, equipment and tools, resulting from these roofing operations, from the roof and off the site. Dispose of in approved manner and container.
 - 2. Broom clean the new roof. Use broom with soft bristles.
 - 3. Clean and restore all surfaces, damaged or disturbed during roofing operations, to the original pre-roofing operations conditions and to the satisfaction of the Owner.
 - 4. Remove roofing cement from surfaces other than those requiring roofing cement.

5. Where landscaping has been damaged or disturbed, remove all ruts and depressions in landscaping, smooth repaired areas, plant grass to match existing, and replace shrubbery, ground cover, and trees to the original pre-roofing operations conditions and to the satisfaction of the Owner.

SECTION III:

INSTALL TRIM, SOFFIT, CAULKING, NAILS, UNDERLAYMENT AND VINYL

PART 1 - GENERAL

- 1.1 Inspect existing wood fascia, soffit and lap board siding. Determine by detailed inspection how much material needs to be replaced and notify owner prior to starting replacement of wood.
- 1.2 Do not use treated wood where aluminum coil is to be installed.
- 1.3 Contractor will follow **manufacturer recommendations** and industry standards for installation.

2.2 ALLOWNCE FOR WOOD REPLACEMENT

- A. Contractor will provide unit square foot pricing for fascia trim in the bid for wood replacement.
- B. If additional wood deterioration is discovered (hidden conditions) during the installations process and the allowance will not cover the cost, the contractor will notify the Owner immediately.
- C. The Contractor will quote a price to the Owner for repair. At that time the Owner will approve or negotiate the price.

PART II: TRIM PRODUCT:

A. FACIA TRIM AND SOFFIT TRIM PRODUCE.

1. Ironmax™ - Double 5" or equal

Combines the attractive appeal of wood with the rigidity and durability of premium extra-thick vinyl.

- Solid and fully vented
- Extra-thick .046" construction
- Class 1(A) fire rating
- Lifetime limited warranty
- Lock design for secure installation

2. White – color

3. Wood Grain

4. Soffit vents to be integrated into the installation per building industry standards.

B. CAULKING

1. DUO-SIL® URETHANE ACRYLIC SEALANT or equal (as approved)
2. 50 year warranty
3. Color –White

C. NAILS :STRONG HOLD MOLDING AND TRIM NAILS OR EQUAL (as approved)

- 1.Stainless Steel
- 2.Ring shank
- 3.Color – white

D. VINYL SIDING: MAINSTREET VINYL – CERTAINTED OR EQUAL(as approved)

- 1.DuraLock™ post-formed lock design
- 2..042" thickness
- 3.Class 1(A) fire rating
4. Lifetime limited warranty
5. STUD finder™
6. Color – Colonial White

E. UNDERLAYMENT: Green Guard Â® Fanfold Siding Underlayment or equal

1. Product Properties

R-Value¹	1.5
ASTM - C 518 @75°F Mean Temperature (°F-ft ² - h/Btu)	
Nominal Thickness (inches)	3/8-inch
ASTM - D 1777	
Water Vapor Transmission Rate (g/m/24 hrs)	1.3
ASTM - E 96, Proc. A	
Fire Characteristics²	10/45-140
ASTM - E 84 / UL 723 (Flame Spread/Smoke Developed)	
Water Absorption	2.0
ASTM - C 272 (max. % by Volume)	

1. Install over the existing lap board prior to the vinyl installation. Install per the manufactures recommendations.

SECTION IV: CONDITIONS FOR ALL DISCIPLINES:

1.1 SAFETY

- A. Vehicles are to be locked when parked in authorized zone and unattended. Vehicles or equipment can not be left unattended with motor running or ignition keys in place.
- B. Open fires are prohibited.
- C. Service roads and fire lanes must be kept clear at all times.
- D. The contractor will be responsible for marking the area as “construction zone, authorize personnel only” prior to commencing work.
- E. Contractor is required to keep the site safe from intrusions by public or college personnel. The contractor shall notify the college representative immediately of unsafe conditions and incidents. If the unsafe condition/situation is of imminent danger work will cease immediately until the condition/situation is made safe.

1.2 SECURITY

- A. All personnel employed by the contractor or any representative of the contractor entering the site shall comply with all security regulations which may be in effect during the contract period and shall be subject to such checks as may be deemed necessary by county. The County has authority to bar an individual from entry onto the site. Such action by the County shall not excuse the contractor from fulfilling all requirements under this contract and shall not be the cause of any claim for additional compensation by the contractor, subcontractor or claim by the individual.
- B. Contractor personnel are to limit fraternization with faculty, staff, visitors and students to the work of this contract only as necessary to coordinate activities of this contract. If a problem occurs with a particular faculty, staff, visitors or student of the college then the County representative is to be notified immediately.
- C. The County is not responsible for equipment, tools or materials lost from the result of being left unattended, misplaced or unsecured. Contractor’s materials and tools are subject to theft. It is suggested that materials be kept in one location where practical and under lock and key.
- D. No weapons of any type (guns, hunting knives, rifles, bombs, etc.) are to be brought onto the site.

1.3 COMMUNICATIONS

- A. Contractor shall maintain a reliable, working telephone service throughout the life of the contract. The contractor shall also have a facsimile (fax) telephone service.

1.4 EMPLOYEES

- A. The contractor is fully responsible for the performance and conduct of his employees at all times while on site. The contractor shall be responsible for selecting personnel who are well qualified to perform the required services, for supervising techniques used in their work and for keeping them informed of all improvements, changes, and methods of operations. The contractor/employees must wear company identification.

- B. The contractor shall not allow any employee to perform work under this contract while under the influence of alcohol, drugs, or any other incapacitating agent. Use of and possession of alcoholic beverage and/or illegal drugs are prohibited on all state property. Violators will be dealt with according to the law.
- C. The contractor shall abide by all County and College policies and procedures as applicable. Smoking and use of tobacco products are only permitted in designated areas. Smoking or use of tobacco products are not permitted in the building or entrances.

1.5 USE OF FACILITIES

- A. Contractor must assure that the facilities are left in a clean and orderly manner,

1.6 UTILITIES:

- A. Utilities will be provided by the County / College for use by the contractor. The contractor will provide for all connections, extensions, adaptations and safety precautions needed in these connections. Utilities are limited to electrical, water, gas, and sanitary sewers.

1.7 OCCUPANCY OF BUILDINGS

- A. The buildings may remain occupied during the work. The contractor is responsible for taking necessary precautions to protect building, contents and personnel from damage or injury from his operations and from water entry into the building during operations.

1.8 PARKING

- A. Contractor is to confine his operations at the site to only those designated areas. DO NOT park in driveways, on grass or block entrances/exits to buildings.

1.9 GROUNDS

- A. The contractor will be held responsible for damage to shrubs, lawn and landscape damaged by his personnel or equipment.

1.10 INGRESS/EGRESS

- A. The contractor is to keep required fire exits free of obstructions at all times. When work occurs within the exit access corridors or within the exit itself, alternate routes for emergency exiting shall be identified and appropriate temporary signage posted by the contractor for the duration of exit access interruption.

1.11 PERMITTING AND PROJECT INSPECTIONS

- A. Comply with Newberry County and City ordinances and regulations. It is the Responsibility of the contractor to obtain all permits applicable to City and County ordinances.

SECTION V: PROJECT CLOSE OUT

- A. Substantial completion – inspection with County and Contractor present. (If punch list items exist, must complete within five days).
- B. Final inspection - County and Contractor
 - a. Present Owner with all warranty manuals, materials information and documents (such as name brand, colors, etc.) in a Project notebook.
 - b. When the Project is accepted as complete, Contractor will submit final invoice for payment.