**Locations:**

Elayn Hunt Correctional Center (State House)

3620 Evergreen Drive

Saint Gabriel, LA 70776

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**Scope of Work:**

Contractor shall provide all labor, materials and equipment necessary to remove approximately 43 squares of existing roofing and underlayment, repair deteriorated decking and overhang material and trim, and shall install new laminated asphalt architecture shingle roofing at two separate buildings located at Elayn Hunt Correctional Center.

All measurements listed are estimated, contractor shall verify all measurements in the field.

**Specifications:**

\*The following specifications apply to both of the State Houses listed above.

1. Contractor shall remove existing shingles, felt, drip edge, flashing, chimney base flashing, ridge vent shingles, and pipe boot with metal base.
	1. Contractor shall carefully remove shingles, any rotten or deteriorated roof decking, all felt, nails, vents, drip edge, jacks and any rotten or deteriorated building materials where necessary and applicable to this project. Contractor shall not damage any substrates or adjacent surfaces, if damaging occurs it shall be repaired or replaced to the satisfaction of the Project Manager (Keith Henderson DOC) at no additional cost to the State. Contractor shall be responsible for any required notifications, inspections, permits, labor, materials, disposal, transport, etc. to complete this project.
	2. The contractor shall completely remove ALL existing shingles, nails, flashing, etc., demolished as a result of this project, from the property and dispose of in a manner that meets ALL codes and regulations regarding disposal of such. Use tarps, as necessary, and utilize good methods to insure that NO existing old nails are lost on the property. Contractor shall protect all work sites (where current work is being performed) from public access at all times during the course of this project.
	3. Contractor shall provide a dumpster specifically for use during this project.
2. Contractor shall replace rotting or deteriorated wood:
	1. Replace any rotten wood overhang.
	2. Replace any rotten or deteriorated roof decking.
	3. Replacement wood material shall be pressure treated.
3. Contractor shall install replacement felt, shingles, drip edge, flashing, chimney base flashing, ridge vent shingles, and pipe boot with metal base.
	1. Materials
		1. Underlayment
			1. The contractor shall provide and install all new 30 pound felt, replacing the existing 30 pound felt material. Underlayment is to be Atlas Premium or equivalent. Contractor shall install the product using all recommendations of the manufacturer. Underlayment shall be placed to fold over the bottom edge of the roof decking, protecting sheathing edges, and shall be applied prior to the drip edge being installed.

**Specify Brand/Model of Felt Bidding:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

* + - 1. Peal and stick ice and water shield shall be applied to the roof deck 3 feet up from all eves, in all valleys, and along all rakes by the contractor.
		1. Flashing
			1. Contractor shall match widths of all flashing that is required to be replaced. Contractor shall match materials used: (galvanized for galvanized, copper for copper, etc.).
			2. Drip edge shall color match the shingles.
			3. Contractor shall install all sheet metal drip edges, plumbing vent pipe flashings, and other sheet metal flashings to comply with the roofing manufacturer's standard installation recommendations unless otherwise specified to the contrary by the agency.
			4. Flashing cement used shall be of heavy consistency formulated for weathering and flow resistance and shall comply with ASTM D-2822.
			5. Contractor shall remove existing sheet metal flashing, and provide new sheet metal flashing with an improved leak-proof system. Sheet metals are to be galvanized, with the exception of copper flashing required to replace existing copper flashing on ALL structures having such.
		2. Shingles
			1. Shingles shall be Atlas Pristine or equivalent and color to be Weathered Wood or equivalent.

**Specify Brand/Model of Shingles Bidding:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Specify Color of Shingles Bidding:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

* + - 1. Shingles shall be surfaced with ceramic coated granules, fungus resistant, self-sealing strip, architectural, Fiberglass Asphalt Construction, dimensions approximately 13 inches by 40 inches. Exposure shall be 5 5/8 inches. Shingles shall comply with ASTM D-3018, Type 1; ASTM D-3462; ASTM E-108; Class A; UL Class A Fire Resistance Rating and UL Standards for Wind Resistance. Manufacturer shall provide certificate of compliance.
		1. Fasteners
1. Fasteners used shall be hot-dipped galvanized 12 gauge barbed shank, 3/8 inch head, sharp-pointed conventional, of sufficient length to penetrate at least 3/4 inch into solid decking, or to penetrate through plywood sheathing.
2. There shall be a minimum of four nails per whole shingle and proportionally for shingle segments.
3. **All materials shall to be nailed by hand, not by pneumatic nail gun.**
	1. Installation
		1. Contractor shall not begin roofing work until all decks and underlying substrates are properly prepared and inspected by the Project Manager and are acceptable to have roofing materials installed. Deck surfaces shall be dry and free of moisture prior to beginning roof application. Contractor shall schedule and supervise work crews so that the area of roofing begun one day is completely finished before leaving the job site for that day. Contractor shall not install any roofing materials during rain or other inclement weather. One exception is that temporary work must be installed during such weather to protect the building and new materials that have been installed. Contractor shall remove all temporary work and materials that have been exposed to such weather, and install permanent materials as specified during acceptable weather conditions. Contractor shall not apply roofing materials when moisture of any form can be seen or felt on the surface to which those materials will be applied.
		2. Underlayment –
			1. Contractor shall install ice and water shield at all roof perimeters and under valley metal
			2. Contractor shall fasten new metal drip edges along the bottom edge (eaves) after underlayment is laid and to the sides (rakes) after the felt is laid.
			3. Contractor shall lay on layer of underlayment horizontally over entire roof, lapping each course over lower course 2 inch minimum at horizontal joints, and 4 inch side lap at end joints, or in accordance with manufacturer’s recommendations, whichever is greatest. Lap underlayment 6 inch from both sides over ridges and in valleys, or in accordance with manufacturer’s recommendations, whichever is greatest.
		3. Shingles
			1. Contractor shall apply a starter course of shingles along eaves (upside-down and backwards; or a roll starter strip), unless existing styles prohibit such application. Shingles shall have tabs cut off.
			2. Contractor shall offset first starter shingle 6 inches so joints of starter do not lay under joints of first course of shingles. Starter strip shingles shall overhang the eaves and rake by 1/2 inch. Fasten starter strip using same spacing as for shingles and locate fasteners about 3 inch up from bottom edge,
			3. Contractor shall avoid fastening where cutouts will occur on the first course of shingles.
			4. The first course of shingles shall be started with full shingles with the butt edge flush with the starter edge, giving the required 4 inch overhang on both rake and eaves.
			5. Succeeding courses shall be applied in accordance with the manufacturer's application instructions so that the cutouts are centered on the tabs of the shingles in the course below.
			6. Fasteners shall be applied in accordance with the manufacturer's fastening instructions for high wind conditions, or at least six nails per whole shingle. Sixty-four shingles per square. Six nails per shingle. Three hundred Eighty-Four nails per square.
			7. All courses of shingle shall be placed strictly on straight lines and all end cuts shall be straight and neat. Contractor shall use only stepped-back method of shingle layout.
			8. Ridge shingles shall be job-cut from roofing shingles, unless individual circumstances warrant the use of a different ridge shingle.
		4. Flashing
			1. Drip edges shall be nailed to the deck with fasteners spaced a minimum of 8 inches on center. Contractor shall hand nail directly to deck along eaves over self-adhering membrane that had been turned down on the vertical face approximately 1 inch and before underlayment is laid, and over underlayment along rake edges.
			2. Color and material shall match color and material of existing.
			3. Contractor shall apply shingles up to vent pipes and cut hole in next shingle to go over pipe.
				1. Contractor shall set shingle in flashing cement.
				2. Contractor shall place flashing assembly over pipe and shingles and set in flashing cement.
				3. All flashings shall be galvanized metal or aluminum, with the exception of structures where the contractor must match existing copper flashing.
4. Replacement or repair of all trim, soffit and fascia to match existing.
5. Contractor Use of Premises
	1. Contractor should have reasonable use of electrical power and water required for construction activities.
	2. Contractor shall schedule work in a manner that causes the least disruption to normal operation of the 3600 Evergreen Drive address.
	3. Contractor shall complete all work 7:30 a.m.-4:00 p.m., Monday-Friday. Site Manager, Keith Henderson 225-716-3262 keith.henderson@la.gov, will have final approval of all work schedules.
6. Project Coordination
	1. The Project Manager shall be Keith Henderson 225-716-3262 keith.henderson@la.gov, Elayn Hunt Correctional Center Site Manager.
		1. Project Manager will coordinate scheduling, access to site and site material storage.
		2. Project Manager will conduct all mandatory site visits and meetings.
			1. A **Mandatory Site Visit** is required prior to bid submission.
			2. A **Pre-construction Conference** shall be held after contract is let, but prior to commencing of work.
			3. A **Final Inspection** shall be held to address any punch list items to be addressed before final acceptance.
7. Contractor shall provide all tools, materials, and equipment required to complete work as specified.
8. Contractor shall be responsible for daily cleaning of work site and disposal of all waste materials offsite.
	1. All materials and tools shall be stored in appropriate area, at the completion of each days.
	2. Waste materials shall be organized in a manner that mitigates risks to public, observes all fire and safety requirements, and shall be removed from site on a daily basis.
	3. Contractor shall be required to provide barricading or other means to section off and secure working area from traveling public.
	4. Contractor shall secure the work area at the end of each day to restrict access of traveling public.
		1. Debris shall be removed at the end of each work day.
		2. A safety wall or partition shall be constructed as necessary to secure work area.
9. Contractor shall complete all required work within 7 working days.
10. All materials and workmanship shall be warrantied for a period of no less than one (2) years.