



**ADDENDUM 1 TO INVITATION TO BID NUMBER 5131-RB
ROOF REPAIR AND RECOAT OF FDH AND BSL BUILDING**

**University of Nevada, Las Vegas
Purchasing Department
4505 Maryland Parkway
Las Vegas, Nevada 89154-1033
(702) 895-3521**

**Date of Addendum: May 2, 2013
Date of Release: April 25, 2013
Date and Hour of Bid Opening: May 15, 2013 @ 3:00PM Local**

Additions/Deletions

Delete: Exhibit G

Replace: With revised Exhibit G

ALL OTHER TERMS, CONDITIONS AND SPECIFICATIONS OF THIS REQUEST FOR QUALIFICATIONS REMAIN THE SAME.

ROOFING REPAIR AND RECOAT SPECIFICATION FOR UNLV FDH and BSL FOAM ROOFS

Part I SCOPE

- 1.01 This specification covers the preparation and application of a silicone coating over an existing polyurethane foam roofing system.
- 1.02 The applicator shall furnish all labor, materials and equipment to perform the operations required as specified. All contractors must be certified by the specified manufacturer of the roofing products.
- 1.03 Anticipate the scope of work to be performed on weekends, evenings or when the buildings are vacant.
- 1.04 Work hours for the duration of this project will be after 9:00 p.m. until 7:00 a.m. on weekdays or on weekends (with prior approval).
- 1.05 Work schedule must be provided to and approved by the project coordinator prior to the start of any work.
- 1.07 The awarded contractor shall have a foreman on site at all times that work is being performed that is capable of verbal communication with the Project Coordinator(s).
- 1.08 The awarded contractor is responsible for providing break facilities for their entire work force for the duration of the project and maintaining said break facilities in a clean and professional manner.
- 1.09 The awarded contractor is responsible for all parking permits that maybe required.
- 1.10 The awarded contractor is responsible for providing all necessary equipment, generators, light plants, safety equipment or any other type of mechanical equipment in order to provide a turnkey project.

PART 2 QUALITY ASSURANCE

- 2.01 For the purpose of defining the quality of materials in the section, the material shall be supplied by a single source manufacturer.
- A. Roof cleaner shall be TSP.
 - B. Back rolling the base coat of SCM 3404 by Lapolla Industries or approved equal.
 - C. Sprayed urethane foam shall be Lapolla Industries a two-component liquid applied by spray polyurethane foam or approved equal.
 - D. Coating shall be SCM 3400 by Lapolla Industries or pre-approved equal (prior to bid date). A single component high solids silicone coating will be used.
- 2.02 All work must be supervised by a manufacturer certified applicator.

PART 3 QUALIFICATIONS

3.01 All roofing contractors and subcontractors bidding shall be licensed by the state of Nevada.

3.02 Contractors bidding and applying the products specified shall be qualified by the manufacturer.

PART 4 SUBMITTALS

4.01 Submit tech data sheets, independent testing reports, and application instructions and manufactures warranty. Submit “proof of purchase” for the product being provided.

PART 5 WARRANTY

5.01 The fluid applied material manufacturer shall issue to the building owner a 15-year material warranty, stating in simple terms that the roof(s) will not leak water due to faulty coating materials or faulty manufacturer of said material or as a result of ordinary weather conditions.

5.02 Manufactures warranty must be issued by a single source manufacturer.

5.03 Contractors 5 year warranty for workmanship and installation of the roofing assembly stating in simple terms that the roof(s) will not leak water due to workmanship or installation.

PART 6 MATERIAL HANDLING

6.01 Deliver products in manufacturer’s original sealed containers with labels intact. For the Owners representative to visually inspect and verify prior to the transfer of any materials that are to be installed on the project.

6.02 Store materials in enclosed space protected from weather and out of the direct rays of the sun.

6.03 Do not ship or store materials unless protection against freezing is available.

6.04 All personal spraying of urethane foam and coating materials must wear protective masks to insure safety. All PPE is recommended to be used by the applicator. Including full face respirator, gloves and tyveck suit.

PART 7 MATERIALS

7.01 Roof cleaner shall be TSP or pre-approved equal.

7.02 Primer is not required; back rolling of the base coat and top coat is required.

7.03 Sprayed polyurethane foam shall be Lapolla Industries 3.0, a two-component liquid applied spray type as supplied by Lapolla Industries or pre-approved equal (prior to bid date). With the minimum physical properties of:

Density 3.0 ASTM D-1622 test method

Revised Exhibit G

K factor .16 ASTM C177 test method. (tech data sheet has aged R-Value of 6.4= K factor .156)

Closed cell content >90% perms ASTM 2856 test method

Comparative Strength

Parallel to rise 50psi ASTM D1621 test method

Tensile Strength

Parallel to rise 55 psi ASTM D 1623 test method

7.04 Silicone roof coating shall be SCM 3404 light gray (base coat) SCM 3402 polar white (top coat) by Lapolla Industries or pre-approved equal (prior to bid date) having the minimum physical properties of:

Solids content by weight 80% per WPSTM-19 on tech data sheet

Tensile strength 200psi ASTM D D-412

Elongation 400% ASTM D-412

PART 8 SURFACE PREPARATIONS

8.01 Remove all existing walk pads. Remove all adhesive used to secure pads.

8.02 No granules or trash to be washed down drains, bag and remove from site prior to power washing.

8.03 Remove any blisters, wet foam or pin holed areas down to good foam and spray foam to match the existing thickness.

8.04 Remove all support blocks and replace with new redwood blocking or pressure treated blocking.

8.05 Grind foam around all drains where possible to allow positive drainage.

8.06 Grind edge around perimeter flashing and foam over existing flashing. Follow with silicone coating, protecting outer edge from runs.

8.07 Foam all screen wall legs, drains, and pitch pans.

8.08 Foam and coat all ductwork.

8.09 Mask off all metal, fascia, and other surfaces, which are not to receive coating.

8.10 Provide procedures or means as required to prevent damage from fugitive overspray. Caution

shall be taken to protect those areas not to receive coating, including vehicles located nearby.

8.11 Prime all metal surfaces to receive foam or coatings with manufacturer approved Primer. By Lapolla or pre-approved equal (prior to bid date).

Revised Exhibit G

8.12 Apply tapered foam (cant) to all pipes, ductwork and sheet metal pans.

8.13 Caulk all seams of edge metal with paint grade silicone caulk at all overlap seams.

8.14 Clean the roof using TSP. Scrub the roof with a stiff bristle broom before power washing. Allow the roof to dry a minimum of twelve hours before applying coating.

8.15 Replace all cast iron drain covers that are missing, owner to furnish and the contractor to install and secure to the proper locations.

PART 9 SPECIFIC AREAS

9.01 FDH North and South Second Floor Roofs

9.02 BSL Third Floor Roofs

PART 10 APPLICATION

10.01 Apply two (2) coats of SCM 3404 coating to all repaired areas at a minimum rate of 1.5 gallons per 100 square feet. This will not be considered part of the recoating of the entire roof. (24 wet mils)

10.02 Coating shall be allowed to dry a minimum of twelve hours before applying successive coats.

10.03 SCM 3400 coating shall be applied in two separate coats (of contrasting colors as stated above) at the rate of 1.50 gallons per 100 square feet per coat. (Minimum of 24 wet mills)

Minimum coating thickness shall be 30 dry mils

10.04 Contractor shall remove all job related debris from the project site, no debris shall be stored onsite overnight.

Part 11 General

11.01 Contractor is responsible for all parking permits, all break facilities for their crew, contractor is responsible for their own lay down yard fencing and the securement. There is no smoking within 25 feet of any of the buildings at any time. Any company vehicles are required to have a parking permit in order to access driveways or sidewalks.