

# MOBILE AIRPORT AUTHORITY



## REQUEST FOR PROPOSALS

WALL WATERPROOFING PROJECT at  
1891 9<sup>th</sup> STREET, MOBILE, AL 36615

**(LABOR AND INCIDENTAL MATERIALS CONTRACT)**

**October 4, 2019**

**PROPOSAL DUE DATE: OCTOBER 18, 2019 @ 2:00 p.m.**

## PROPOSAL SPECIFICATIONS

### MOBILE AIRPORT AUTHORITY WALL WATERPROOFING PROJECT at

1891 NINTH STREET, MOBILE, AL 36615

#### **Bid Specifications:**

Mobile Airport Authority (Authority) requests proposals from qualified contracting firms for Wall Waterproofing at 1891 Ninth Street, Mobile, AL 36615 in accordance with the Scope of Work outlined below in Section 1.11. The scope of the work below requires the contractor to provide all tools, labor, incidental materials, equipment, and supervision necessary to perform the services as detailed. The purpose of this Request for Proposal (“RFP”) is to solicit proposals from various contractors, conduct a fair evaluation based on criteria listed herein, and select the candidate who can best meet the needs of the Authority.

Questions regarding the proposal should be directed in writing, via email to Russell Stallings at [Russell@mobairport.com](mailto:Russell@mobairport.com).

#### **1.1 General Requirements:**

All work to be completed within 90 days from signing of contract. The work to be performed will include, but is not limited to, the restoration of deteriorated masonry walls and canopies, work to include repairs to concrete joints, spalling and cracks, finish coats and coating applications. Contractors are required to make a site visit for verification of field conditions.

#### **1.2 Scope of Work:**

This is a contract for Labor and Incidental Materials. The work to be performed will include, but is not limited to, the restoration of deteriorated masonry walls and canopies, work to include repairs to concrete joints, spalling and cracks, finish coats and coating applications.

Refer to Attachment “A”, Project Manual, for detail information, specifications, and requirements. This is a contract for Labor and Incidental Materials.

#### **1.3 Proposal Process:**

- A. Bid Packets: Bid packets can be obtained at the Authority’s website, by visiting [www.mobairport.com](http://www.mobairport.com), or can be requested via email at [Russell@mobairport.com](mailto:Russell@mobairport.com).
- B. Pre-Bid Meeting: A pre-bid meeting to review the scope of work is scheduled for 9:00 a.m. (local time) on October 11, 2019 in the Boardroom of the Mobile Airport Authority’s Administration offices located at 1891 Ninth Street, Mobile, AL 36615. Attendance is recommended for anyone interested in submitting a bid.

Any questions following the meeting must be submitted in writing via email to [Russell@mobairport.com](mailto:Russell@mobairport.com) no later than the close of business on October 14, 2019. Responses to questions will be made by addenda not less than three two (2) days prior to the scheduled bid delivery date.

- C. Sealed Bid Due to Authority: All sealed bids must be received in the Administration offices of Mobile

Airport Authority no later than 2:00 p.m. (local time) on October 18, 2019. Sealed proposals may be hand-delivered to 1891 Ninth Street, Mobile, AL 36615, or mailed to the same address, Attn: Russell Stallings. Any proposals received after this date and time will not be considered. All proposals must be signed by an official agent or representative of the company submitting the proposal. Proposals must be clearly labeled “RFP – 1891 Ninth Street – Wall Waterproofing 2019.”

- D. Bid Packet Requirements: Each company shall submit the following documents as applicable to be considered a responsive bidder:
- a. Oath of Non-Collusion signed by a principal of the firm or an officer authorized to bind the corporation
  - b. Cost sheet stating amount of bid fee.
  - c. Qualifications to meet the Authority’s objectives. This shall include state license, the size of the business, office location from which the service is being performed, and a list of project personnel and equipment available.
  - d. Prior work performed, including names of prior and current clients and number of years operating in the field. Previous work similar to the scope of work herein is preferred.
  - e. Name and contact information for three professional references.
  - f. Indicate and list any pending legal actions.
  - g. Provide current copy of IRS Form W9.
  - h. Outsourcing Statement: if your organization must outsource or subcontract any work to meet the requirements contained herein, this must be clearly stated in the proposal. Costs should be all-inclusive to include any outsourced or subcontracted work. Any proposals that call for outsourcing or subcontracting work must include a name and description of the organization being contracted.

**1.4 Owner Purchased Materials:**

OWNER PURCHASED MATERIALS

- A. Owner shall provide materials and quantities listed below for contractor’s use in completing these specifications. Contractor shall be responsible for receiving all quantities at jobsite, hoisting to rooftop, and subsequent storage.
- B. Contractor shall be responsible for purchase of any additional materials and quantities required to complete Specification and issue of manufacturer’s warranty. Under no circumstances shall owner be responsible for ordering additional materials beyond those originally provided.
- C. All unused Owner-purchased materials shall remain the possession of Owner.
- D. All materials shall be kept covered from weather and set atop pallet at all times.
- E. Material to be Owner-Purchased;Material to be Owner-Purchased;
  - 1. “Tuff Stuff MS” 10 oz tube (20)
  - 2. “Tuff Coat”, Sandstone 5 gal pails (23)

1.5 Bid Form:

BID FORM

PROJECT IDENTIFICATION: "MAA 1891 Ninth Ave Wall Waterproofing 2019"
BID TO: Mobile Airport Authority
1891 Ninth Ave.
Mobile, AL 36615
Attention: Russell Stallings, russell@mobairport.com

BID FROM: \_\_\_\_\_
\_\_\_\_\_
\_\_\_\_\_
\_\_\_\_\_

- 1. The undersigned BIDDER agrees, if this Bid is accepted, to enter into an agreement with OWNER, to perform the Work as specified for the Bid Price and within the Bid Times indicated and in accordance with Contract terms and conditions.
2. In submitting this Bid, BIDDER represents, as more fully set forth in the Agreement, that:
a. This Bid will remain valid for 60 days after Bid Date;
b. BIDDER will sign and submit the Agreement with the Bonds and other documents required by the Bidding Requirements within 15 days after the date of OWNER'S Notice of Award;
c. BIDDER acknowledges it has received the following Addenda;

Table with 2 columns: Date, Number. Includes blank lines for input.

3. BASE BID \$ \_\_\_\_\_

4. ALTERNATE #1; Replace gutters. \$ \_\_\_\_\_

5. UNIT PRICING \$ \_\_\_\_\_

\$ \_\_\_\_\_

a. Misc sheet metal trim, 24 ga G90 Kynar coated steel, 24" x LF \$ \_\_\_\_\_ /LF

b. Replace deteriorated lumber with pressure treated, match existing dimension. \$ \_\_\_\_\_ /BF

6. SUBMITTED BY: \_\_\_\_\_, on \_\_\_\_\_, 2019

7. COMPANY NAME: \_\_\_\_\_

### **1.6 Codes and Standards:**

The contractor shall be responsible for complying with all local, state and federal regulations and building codes having jurisdiction over any portion of the work to be performed under the contract.

### **1.7 Coordination of Work:**

The contractor will be responsible for coordinating all work to be performed under the contract with the Mobile Airport Authority Project Manager (PM) Russell Stallings via email at [Russell@mobairport.com](mailto:Russell@mobairport.com) or by telephone at (251) 370-4432.

The contractor will be required to provide contact information for key personnel to the Project Manager prior to the start of work.

### **1.8 Contractor Requirements:**

Contractor and/or his alternate must be licensed, bonded (Bond not required), and insured. Documents must be attached to quote form. The insurance requirements are as follows:

#### **INSURANCE**

On or before the inception of this Agreement, and annually thereafter for the duration of this Agreement (or longer if stated otherwise), Contractor and/or any subcontractors shall maintain the following insurance policies on a primary and non-contributing basis.

#### **Certificates of Insurance**

Contractor and/or any Subcontractor shall provide COMPANY/OWNER with valid certificates of insurance *prior* to commencement of work verifying said insurance requirements have been met. Attached to each certificate of insurance, shall be a copy of the Additional Insured Endorsement that is part of the Contractor/Subcontractor's Commercial General Liability Policy. Each certificate of insurance shall provide that the insurer must give the COMPANY/OWNER at least thirty (30) days' prior written notice of cancellation, non-renewal, or modification of the Contractor's/Subcontractor's coverage thereunder. Not less than two (2) weeks prior to the expiration, cancellation or termination of any such policy, the Contractor/Subcontractor shall supply the COMPANY/OWNER with a new and replacement certificate of insurance and Additional Insured endorsement as proof of renewal of said original policy. Said new and replacement endorsements shall be similarly endorsed in favor of COMPANY/OWNER and COMPANY/OWNER's parties as set forth above. Policies must be issued by companies with an A.M. Best rating of A-VII or better. All deductibles or Self-Insured Retentions for each policy shall not exceed \$10,000.00 without COMPANY/OWNER's prior written approval. . The Description section of the Certificate shall contain reference to the Project name. The Contractor shall ensure that each Subcontractor complies with the terms of this Section.

#### **Workers' Compensation**

Regardless of any "minimum requirements" of the State of Alabama, Contractor shall obtain Workers' Compensation insurance covering all workers involved in the Project. Where applicable, U.S. Longshore and Harborworkers Compensation Act Endorsement and/or Maritime Coverage Endorsement shall be attached to the policy. Subcontractor shall also obtain Employers Liability insurance with minimum limits of \$500,000 each accident, \$500,000 disease limits, and \$500,000 each employee.

**Commercial General Liability:**

Contractor shall also obtain Commercial General Liability coverage on a 2004 ISO Occurrence form or its equivalent with the following minimums:

- \$1,000,000 each occurrence (combined single limit for bodily injury and property damage)
- \$2,000,000 Products/Completed Operations aggregate
- \$1,000,000 Personal and Advertising Injury per person/organization
- \$2,000,000 general aggregate per project

**Subcontractor's Pollution Legal Liability (as needed):**

Contractor agrees to maintain Pollution Legal Liability limits of not less than \$1,000,000 Each Occurrence, \$2,000,000 Annual Aggregate. The Subcontractor agrees the policy shall include a minimum three year Discovery (tail) reporting period, and a Retroactive Date that equals or precedes the effective date of the Contract, or the performance of Work hereunder. This coverage may be provided on a Per-Project Basis.

**Automobile Liability:**

Contractor shall also obtain a minimum of \$1,000,000 combined single limit coverage per accident, including owned, hired and non-owned automobiles. *(If Subcontractor does not own an automobile, but one is used in the execution of the contract, then only "hired and non-owned coverage" is required. If a vehicle is not used in the execution of the contract then automobile coverage is not required.)*

**Additional Insureds**

These liability policies shall endorse COMPANY/OWNER as an **Additional Insured**. Coverage for the COMPANY/OWNER and their officers, directors and employees as additional insureds shall be provided by a policy provision or by an endorsement providing coverage at least as broad as Insurance Service Office (ISO) Additional Insured endorsement from CG2010 1185 Form B, or CG2010 1001 in conjunction with CG2037 1001, or an equivalent form that provides Additional Insured status for Products and Completed Operations. Forms that are limited to "liability arising out of your ongoing operations" or that do not extend to Products and Completed Operations are not acceptable. Should a separate excess and/or umbrella liability policy be used to satisfy the above required limits, said policy will also be endorsed to include the contractor, owner et al. as an additional insured. Additionally, Subcontractor agrees to continue to procure and maintain liability insurance coverage meeting these requirements for the statutory limitation of claims (or statute of repose, if applicable) after the Project completion.

The policies shall be endorsed to stipulate that the insurance afforded the additional insureds shall apply as primary insurance and that any other insurance or self-insurance maintained by COMPANY/OWNER shall be excess only and shall not be called upon to contribute with this insurance.

A copy of each endorsement shall be attached to the Certificate of Insurance. The Certificate shall indicate the Certificate Holder as:

ABC Company  
Street Name  
City, State, ZIP

**Insurance Requirements for Sub-subcontractors.**

Contractor shall ensure that its subcontractors of any tier shall procure and maintain insurance that complies with the requirements set forth in this Attachment A, including the additional insured, primary and non-contributory and waiver of subrogation requirements. Copies of the certificate(s) must be provided prior to the sub-subcontractors entering the site.

**Cancellation**

Each policy shall be endorsed to provide that the insurance company agrees that the policy shall not be canceled, changed, allowed to lapse or allowed to expire for any reason until thirty days after the Owner has received written notice.

**Indemnity & Hold Harmless Agreement**

Contractor shall indemnify, defend and hold harmless COMPANY/OWNER and its affiliates, and all of their employees, officers, directors, shareholders, etc. (collectively "Indemnitees") from and against any and all claims, demands, losses, damages, liabilities, expenses, obligations, judgments, recoveries and deficiencies, arising out of or resulting from the performance of the Services of this Contract; provided that any such claim, damage, loss or expense (i) is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property including the loss of use resulting therefrom and (ii) is caused in whole or in part by any negligent act or omission of the Contractor, any Subcontractor, anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable, regardless of whether or not it is caused in part by a party indemnified hereunder. Contractor will not be liable hereunder to the extent that such liabilities or losses directly result from the sole negligence or willful misconduct of any Indemnatee. Contractor shall, upon request, defend any suit asserting a claim covered by this indemnity.

**Waiver of Subrogation**

Contractor shall waive its right to subrogation on each of the policies herein. If any of the policies do not permit the insured to enter into a pre-loss waiver, or voids coverage because of same, there this Waiver of Subrogation requirement shall not apply and Subcontractor shall obtain a Waiver of Transfer of Rights of Recovery Against Others, or its equivalent.

Insurance required by this Agreement shall be as broad as necessary to support the indemnification requirement in said contract or as broad as the indemnitor's insurance coverage, whichever is broader.

**1.9 Work Hours:**

All work will be performed during hours as set by the Mobile Airport Authority. All work performed during operating hours shall not disrupt normal business operations. All work will be performed Monday through Friday during daylight hours. The contractor will be responsible for all staff activities while on the site and for securing the site at the end of each day.

**1.10 Supervision and Labor:**

The contractor will provide qualified, trained individuals to perform all work. The contractor has the responsibility to enforce all discipline and behavior of their employees. The contractor will supervise and control their employees to prevent violation of safety rules and regulations as set forth by OSHA and the Mobile Airport Authority.

**1.11 Facility and Site Access:**

All access to the facility will be coordinated with the Project Manager.

**1.12 Contractor Care, Custody and Control:**

Upon commencement of the work, the contractor shall be fully responsible for and will use the appropriate means to ensure the care, custody and control of Mobile Airport Authority property, facilities and equipment.

**1.13 Safety:**

The contractor will be responsible for enforcement of all safety regulations as set forth by OSHA, local, and/or state agencies.

**1.14 Debris:**

Contractor shall remove all roof related construction debris from Mobile Airport Authority property. Should construction dumpsters be required for debris removal, space will be provided on site by the Mobile Airport Authority. Additionally, the contractor will maintain a clean, safe and orderly construction site at all times, particularly during normal operating hours. Contractor will dispose of all construction debris in accordance with local, state and federal regulations. Contractor will be liable for any damages to MAA property from equipment or dumpsters during the construction process.

**1.15 Warranty:**

Contractor will coordinate the receipt, inspection, storage, and tracking of all Owner-Purchased Materials in a manner that satisfies requirements for any and all applicable Manufacturer Warranties, and will provide written documentation supporting all installer and Manufacturers warranties.



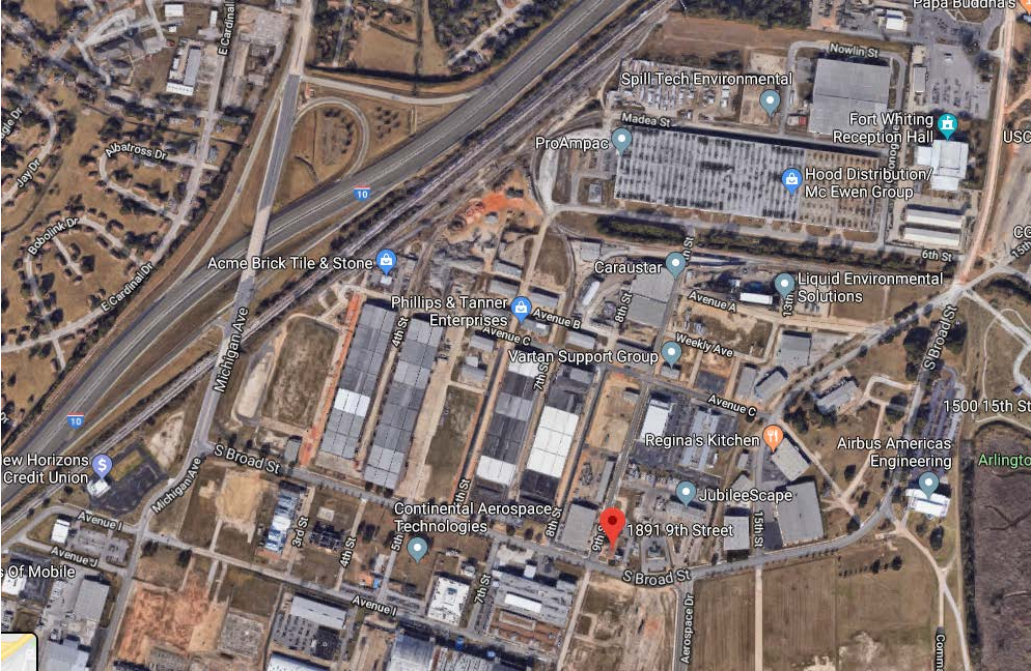
**1.16 Building Photographs:**







RFP – MOBILE AIRPORT AUTHORITY WALL WATERPROOFING PROJECT – 1891 9TH STREET



**RFP – Mobile Airport Authority Wall Waterproofing Project**

**Attachment “A”**

PROJECT MANUAL

FOR

“MAA 1891 NINTH AVENUE WALL WATERPROOFING 2019”

LABOR AND INCIDENTAL MATERIALS CONTRACT



**Mobile Airport Authority**

**1891 NINTH AVENUE  
MOBILE, AL 36615**

SEPTEMBER 25, 2019

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### DIVISION 7 - THERMAL & MOISTURE PROTECTION

SECTION 07120	WALL WATERPROOFING
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SECTION 00410 - BID FORM

PROJECT IDENTIFICATION: **“MAA 1891 Ninth Ave Wall Waterproofing 2019”**

BID TO: Mobile Airport Authority  
1891 Ninth Ave.  
Mobile, AL 36615  
Attention: Russell Stallings, russell@mobairport.com

BID FROM: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

1. The undersigned BIDDER agrees, if this Bid is accepted, to enter into an agreement with OWNER, to perform the Work as specified for the Bid Price and within the Bid Times indicated and in accordance with Contract terms and conditions.

2. In submitting this Bid, BIDDER represents, as more fully set forth in the Agreement, that:

- a. This Bid will remain valid for 60 days after Bid Date;
- b. BIDDER will sign and submit the Agreement with the Bonds and other documents required by the Bidding Requirements within 15 days after the date of OWNER'S Notice of Award;
- c. BIDDER acknowledges it has received the following Addenda;

Date	Number
_____	_____

3. BASE BID \$ \_\_\_\_\_

4. ALTERNATE #1; Replace gutters. \$ \_\_\_\_\_

5. UNIT PRICING \$ \_\_\_\_\_

a. Misc sheet metal trim, 24 ga G90 Kynar coated steel, 24” x LF \$ \_\_\_\_\_ /LF

b. Replace deteriorated lumber with pressure treated, match exstng dimension. \$ \_\_\_\_\_ /BF

6. SUBMITTED BY: \_\_\_\_\_, on \_\_\_\_\_, 2019

7. COMPANY NAME: \_\_\_\_\_

SECTION 01360 - WARRANTY CERTIFICATION

Description: IBC Code and Warranty compliance certification from Wall Waterproofing System Manufacturer, copy provided to Owner and Contractor for submittals.

- 1. Project: \_\_\_\_\_
- 2. Manufacturer: \_\_\_\_\_
- 3. Contractor \_\_\_\_\_
- 4. Definitions:
  - a. “Substrate”: Any surface the new waterproofing system is applied to, including existing masonry, sheet metals, window frames and wall penetrations.
  - b. “Waterproofing System”: The complete system including Coatings, Sheet Metal, Membranes, Adhesives, Mastics, Primers, Fasteners, and Cementitious Materials including grouts, mortars, concrete and stucco, all covered under Manufacturer’s Warranty.
- 5. SUBSTRATE: We have reviewed existing Substrates and provided Contractor with preparation and attachment requirements for Waterproofing System application to SUBSTRATE in accordance with warranty and code compliance.
- 6. WATERPROOFING SYSTEM DESIGN: We have provided Contractor with primary and supplemental Design information for Waterproofing System warranty and code compliance.
- 7. SHEET METAL DETAILS: We have provided Contractor with SHEET METAL DETAIL requirements for Waterproofing System compliance with warranty and code requirements.
- 8. WORKMANSHIP: We agree to coordinate and support Contractor with **weekly jobsite visits**, will issue weekly reports notifying Contractor, Owner and Architect of all compliant and noncompliant observations with 7 days, and agree that warranty issue indicates full compliance with warranty and code requirements.

Sincerely,

\_\_\_\_\_  
Manufacturer Representative PRINT NAME

\_\_\_\_\_  
Liability Insurance Carrier / Policy #

\_\_\_\_\_  
Manufacturer Representative SIGNATURE

\_\_\_\_\_  
Date

## SECTION 07120 - MASONRY WATERPROOFING

### PART 1 - GENERAL

#### 1.1 SUMMARY OF WORK

- A. Section Includes: The restoration of deteriorated masonry walls and canopies, work to include repairs to concrete joints, spalling and cracks, finish coats and coating applications.

#### 1.2 REFERENCES

- A. The standards listed below form a part of this specification to the extent referenced. Standards are referred to in the text by basic reference only.
  1. ASTM C-91 Standard Specification for Masonry Cement
  2. ASTM C-109 Standard Test Method for Compressive Strength of Hydraulic Cement Mortars
  3. ASTM C 920 Standard Specification for Elastomeric Joint Sealants
  4. ASTM C 926 Standard Application of Portland Cement Based Plaster
  5. ASTM D 412 Standard Test Method for Vulcanized Rubber and Thermoplastic Elastomers-Tension
  6. ASTM D 562 Standard Test Method for Consistency of Paints Measuring Krebs Unit (KU) Viscosity Using a Stormer-Type Viscometer
  7. ASTM D 2370 Standard Test Method for Tensile Properties of Organic Coatings
  8. ASTM D 2939 Standard Test Methods for Emulsified Bitumens Used as Protective Coatings

#### 1.3 SUBMITTALS

- A. Submit Product Data Sheets for each type of product specified include manufacturer's technical product data, installation instructions, and recommendations for each type of roofing product required. Include data substantiating that materials comply with specified requirements.
- B. Submit Installer Certificate from Manufacturer confirming Approval, with minimum 5 years experience and approved for warranty issuance.
- C. Upon request, submit a sample of each product.
- D. Submit sample of Manufacturer's 5 year, single-source, materials warranty with project certification.



- E. Certified copy of Manufacturer's ISO 9001 compliance.

#### 1.4 QUALITY ASSURANCE

- A. Contractor Qualifications

- 1. Applicator shall have a minimum of five years experience installing waterproofing applications, and must be pre-approved by the waterproofing and roofing material manufacturer.

- B. Pre-Construction Meeting

- 1. Waterproofing Contractor, Material Manufacturer's representative and Owner's Representative, shall meet at job site to review specifications and job related conditions prior to Contractor starting work.

- C. Manufacturer Inspections

- 1. Manufacturer shall provide weekly job site inspections of the work in progress, keeping the Owner's representative informed as to the progress and quality of the work as observed, report to Contractor within 3 days of site visit, Contractor to forward report within 7 days of site visit.
  - 2. Review and approve all Work to be in conformance with Contract and Warranty requirements.

#### 1.5 DELIVERY, STORAGE AND HANDLING

- A. Deliver materials undamaged in manufacturer's clearly labeled unopened containers.

- B. Coordinate delivery with scheduled installation date to allow minimum storage time at site.

- C. Store material in clean, dry location at temperature between 50 and 90F. If exposed to lower temperatures, restore to proper temperature before using. Protect from soiling, abuse and moisture. Follow manufacturer's recommended instructions.

- D. Store only that material that can be used on the roof in one day; scatter over the roof area so that deck and roof membranes are not deflected or damaged. Heavy concentrated loads are not permitted on roof. Store pails atop plywood/pallet set atop polystyrene insulation.

E. Provide required storage units and safeguards.

## 1.6 PROJECT / SITE CONDITIONS

A. Verify existing mortar and masonry is structurally sound prior to coating application.

1. Bring structural defects to the attention of the Owner's Representative.

B. Environmental Requirements.

1. Do not apply coatings when temperature is 50 degrees F or lower.  
2. Do not apply coatings to damp surfaces.

## 1.7 WARRANTY

A. The waterproofing Contractor shall provide Manufacturer a two (2) year warranty against defects in materials and workmanship. The warranty shall include repairs of leaks in areas covered by this Scope of Work.

B. The Manufacturer shall provide Owner a 5 year materials warranty with workmanship certification of proper installation.

## PART 2 MATERIALS

### 2.1 PRODUCTS

A. The Garland Company's Wall Waterproofing System shall form the Basis of Design for Specification performance, compatibility, jobsite support and warranty. Please provide proposed substitutions for pre-approval, 10 days prior to Bid Date.

B. No products shall be used that contain asbestos.

C. MORTAR JOINT REPAIRS: Type "N" Mortar, tested under ASTM C-91.

1.	Fineness, 35%	45-um (No. 325) sieve	24
2.	Autocl Exp.	Max., %	1.0%
3.	Time of Setting	Initial Set, min., hr.	2
		Final Set, min., hr.	24
4.	Compressive Strength	7 days	500 psi
		28 days	900 psi

D. STUCCO REPAIRS

1. Base Coat – ASTM C926
  2. Finish Coat - ASTM C926, Type ‘F’
  3. Compressive Strength ASTM C109, 7 days 900 psi  
ASTM C109, 28 days 1200 psi
- E. SEALANT: Single component 100% modified silane. “Tuff Stuff MS, Natural Stone” or preapproved equal.
1. Tensile Strength ASTM D412 225 psi
  2. Hardness, A ASTM C920 25-35
  3. Elongation, Ult. ASTM D412 500%
- F. MASONRY COATING: “Tuff-Coat” or preapproved equal.
1. Density @77F ASTM D 2939 10.86 lbs/gal
  2. Viscosity ASTM D 562 85-90 KU
  3. Tensile Strength ASTM D 2370 160 psi
  4. Elongation ASTM D 2370 585%
- G. CLEANER FOR MASONRY
1. Non-Toxic, as recommended by Manufacturer.

## PART 3 EXECUTION

### 3.1 PREPARATION

- A. Protect surfaces of the building and the surrounding grounds from contamination, soiling and damage during the waterproofing application.
- B. Pressure-wash all surfaces to receive new waterproofing work, removing all loose prior coatings, and any debris, grease, rust, or efflorescence, that will interfere with the adhesion of the new materials.
- C. Following the pressure washing, scrape any existing coating to insure that it is adequately adhered, removing all remaining loosely bonded areas of old coating.

### 3.2 WALL PENETRATIONS

- A. Remove old caulking from joints.
- B. Install new sealant at the wall-to-penetration intersections. This includes all penetrations and wall-mounted equipment.

### 3.3 WINDOWS

#### A. Re-Sealing

1. Scrape existing sealant from jambs and head, leaving sill unsealed.
2. Apply new sealant at jambs and head.

#### B. New Weep Holes

1. Where none existing, drill new 3/8" weep holes along base of window frame at sill, three (3) weep holes per window.
2. Mark all weep hole drilling locations with small paint "dot" prior to drilling, for approval by wall waterproofing manufacturer.

### 3.4 MASONRY COATING

#### A. Apply to all existing horizontal and vertical masonry and stucco surfaces.

#### B. Crack Preparation

1. Grind cracks to minimum one quarter inch (1/4") width.
2. Apply sealant flush into crack.

#### C. Apply all sealants prior to masonry coating application.

#### D. Apply a single coat at a rate of 150 sq. ft per gallon, allowing 4 hour cure.

#### E. Apply second coat at a rate of 200 sq. ft. per gallon.

### 3.5 COPING STONES – UNCOATED only

#### A. Apply backer rod to one-half inch (1/2") depth, then specified sealant, on three sides.

#### B. Apply two (2) coats masonry coating to horizontal and inside face only (two sides).

### 3.6 METAL COPING

#### A. Remove existing sealant at joints.

#### B. Install new specified sealant.

### 3.7 SCUPPERS (LOW SLOPE ROOF SECTIONS)

#### A. Clear all organic debris from roof.

B. Remove unbonded existing-coating materials at scupper.

3.8 OWNER PURCHASED MATERIALS

A. Owner shall provide materials and quantities listed below for contractor's use in completing these specifications. Contractor shall be responsible for receiving all quantities at jobsite, hoisting to rooftop, and subsequent storage.

B. Contractor shall be responsible for purchase of any additional materials and quantities required to complete Specification and issue of manufacturer's warranty. Under no circumstances shall owner be responsible for ordering additional materials beyond those originally provided.

C. All unused Owner-purchased materials shall remain the possession of Owner.

D. All materials shall be kept covered from weather and set atop pallet at all times.

E. Material to be Owner-Purchased;Material to be Owner-Purchased;

1. "Tuff Stuff MS" 10 oz tube (20)
2. "Tuff Coat", Sandstone 5 gal pails (23)

END OF SECTION 07120- MASONRY WATERPROOFING

## SECTION 07620 – SHEET METAL REPAIRS

### PART 1 - GENERAL

#### 1.1 SCOPE OF WORK

- A. Perform repairs to existing gutters and downspouts and associated plumbing.

#### 1.2 REFERENCES

- A. ASTM A-792 Galvalume Steel; Specification for Steel Sheet, 55% Aluminum-Zinc Alloy-Coated by the Hot-Dip Process
- B. ASTM D-1079 Terminology Relating to Roofing, Waterproofing, and Bituminous Materials
- C. SMACNA Sheet Metal and Air Conditioning Contractors National Association "Architectural Sheet Metal Manual"
- D. NRCA National Roofing Contractors Association "Roofing and Waterproofing Manual"
- E. ASCE -7 American Society of Civil Engineering, Minimum Design Loads for Buildings and Other Structures
- F. FM Factory Mutual

#### 1.3 SUBMITTALS

- A. Product Data: Submit manufacturer's product specifications, installation instructions and general recommendations for each specified sheet material and fabricated product.

#### 1.4 QUALITY ASSURANCE

- A. Qualifications of Installers: At least one person shall be present at all times during execution of this work who is thoroughly trained and experienced in the materials and methods required to fabricate and install the flashing and sheet metal work specified herein.
- B. Codes and Standards:

1. Comply with all governing codes and regulations.
2. Comply with all pertinent recommendations of "Architectural Sheet Metal Manual" of the Sheet Metal and Air Conditioning Contractors National Association (SMACNA).
3. Comply with pertinent recommendations of "Roofing And Waterproofing Manual" of the National Roofing Contractor's Association (NRCA).

#### 1.5 DELIVERY, STORAGE AND HANDLING

- A. Protection: Protect flashing and sheet metal materials before and during installation.
- B. Replacements: In event of damage, make all repairs and replacements necessary.
- C. Store metals so as to eliminate ponding water on their surface, to prevent rust and staining.

#### 1.6 MANUFACTURER'S INSPECTIONS

- A. Manufacturer shall attend pre-job conference, provide weekly progress inspections, punch list and final inspection.

#### 1.7 WARRANTY

- A. Provide 2 year Contractor Warranty.
- B. Provide 2 year Manufacturer's Warranty with Manufacturer Warranty Certification

### PART 2 - PRODUCTS

#### 2.1 GENERAL

- A. Provide additional sheet metals as necessary to complete work according to drawings, details, and this Project Manual.

#### 2.2 DOWNSPOUTS

- A. Downspout
  1. 24 ga, Kynar coated G90 steel
  2. Dimension: 4-1/4" x 3-1/4" (match existing).
- B. Downspout Straps
  1. 24 ga, Kynar coated G90 steel

- 2. Doubled over, one inch (1”) width.
- C. Inlet Tubes
  - 1. 24 ga, Kynar coated G90 steel

### 2.3 FASTENERS

- A. Pop Rivets: Stainless Steel
- B. Sheet Metal Fasteners: Stainless Steel Screws with neoprene washers.

### 2.4 WATERPROOFING COMPONENTS

- A. Joint Sealant, “Tuff Stuff MS”; Single component 100% modified silane. “Tuff Stuff MS, Natural Stone”.
  - 1. Tensile Strength       ASTM D412           225 psi
  - 2. Hardness, A            ASTM C920           25-35
  - 3. Elongation, Ult.        ASTM D412           500%

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Verify all existing work is complete to point where this installation may commence.
- B. In the event of discrepancy, notify Owner's Representative. Do not proceed until discrepancies have been resolved.
- C. Field measure site conditions prior to fabricating work.

### 3.2 FABRICATION

- A. Shop-fabricate work to greatest extent possible. Comply with details shown, and with applicable requirements of SMACNA and other industry practices.
- B. Form exposed sheet metal work without excessive oil-canning, buckling and tool marks, true to line and levels as indicated, with exposed edges folded back to form hems.

### 3.3 GUTTER REPAIRS

- A. Pressure wash and scrape loose sealants and debris from gutter.
- B. Install new sealant at all gutter laps.



### 3.4 DOWNSPOUTS

- A. Install two (2) new downspouts where indicated on plan.
- B. Cut three inch by three inch (3"x3") outlet within the bottom six inches (6") of downspout, for all downspouts.
- C. Remove and reinstall existing downspouts where required for access to plumbing cleanouts.

### 3.5 PLUMBING CLEANOUTS

- A. Clean all underground plumbing laterals of all debris, using cutter and pressure wash, to street.

### 3.6 ALTERNATE #1: GUTTER REPLACEMENT (with associated shingle repairs).

- A. Remove and discard bottom 3 (three) rows of shingles.
- B. Remove and discard metal drip edge, gutters, and backer trim.
- C. Install new self-adhering membrane beginning at roof to wall transition, turned down outside face of wall minimum two inches (2").
- D. Install new backer trim with laps sealed with two rows specified sealant.
  - 1. Backer Trim; 24 ga, Kynar coated G90 steel, 3" x 6" x 4"
- E. Install new gutter with spacers 36" oc, matching profile and finish.
  - 1. Gutters; 24 gauge Kynar coated G90 steel.
- F. Install new metal drip edge nailed 3" oc staggered.
  - 1. Drip Edge; 24 gauge Kynar coated G90 steel.
- G. Install new bottom three (3) rows of shingles.
  - 1. Bottom Row and Starter strips are to be set in (two) layers of continuous three inch (3") width asphalt mastic application.
  - 2. Shingles; 20 year asphalt shingles, matching color and profile approved by Owner.

### 3.7 CLEANING

- A. Clean exposed metal surface, removing substances which might cause corrosion of metal or deterioration of finishes.

END OF SECTION 07620- SHEET METAL REPAIRS