CITY
OF
JOPLIN, MISSOURI

BID PACKAGE

#2018-10

For

Roof Renovations

CITY OF JOPLIN – City Hall
602 S. Main
Joplin, MO 64801

NOTICE TO BIDDERS

The City of Joplin, Missouri will accept sealed bid proposals until **10:00 a.m. September 17 th 2018** at City Hall located at **602 S. Main St, Joplin, MO** to provide services for the following:

Fluid Applied Roof System and Modified Bitumen Roof System on the City Hall

Specifications and bid forms are available from Jeff Tennis, Maintenance Supervisor by calling (417) 624-0820 x299. Any bids received after the specified deadline will be returned to the vendor.

The City reserves the right to evaluate all bids, to reject any or all bids and re-bid at a later date. The City may waive any irregularities in the bid or negotiate variances from specifications and make awards that are in the best interests of the City. The City will have final decision in all matters regarding acceptance of bids and issuance of awards.

The City encourages minority and female owned businesses to submit bids on all City purchases.

Leslie Haase, CPA
Finance Director

Publication Date : August 27th, 2018

NOTICE TO CONTRACTORS

Notice is hereby given that the City of Joplin, Missouri, will accept sealed bids at City Hall, 602 S. Main St. until 10:00 A.M, September 17th, 2018 for making the following improvements:

Fluid Applied Roof System and Modified Bitumen Roof System on City Hall

This project includes the following: furnish labor, equipment and material to make fluid applied roof restorations to the above listed facilities.

Specifications and bid forms will be available at the mandatory pre-bid. Bids must be received before 10:00 a.m. September 18th, 2018 at City Hall, 602 S. Main St. Joplin, Mo. 64801 at which time the bid opening will be conducted in the conference room located on the 4th floor at City Hall, 602 S. Main. A **mandatory pre-bid meeting** will be held @**10:00 a.m., September 05, 2018** in the 4th floor conference room at City Hall, 602 S. Main St. Joplin, Mo. 64801.

.

The contractor shall be licensed in the City of Joplin Missouri before entering the work of said contract. The City reserves the right to reject any or all bids.

This is a prevailing wage project. Wage rates for this project shall be in accordance with the most current wage rate determination made by the Industrial Commission of Missouri on file in the Department of Public Works. Contractor will use the Division of Labor Standards Form LS-57 to report all wages.

Missouri Law, 292.675 RSMO, requires the awarded contractor and its subcontractor(s) to provide a ten-hour occupational safety and health administration (OSHA) construction safety program (or a similar program approved by the Missouri Department of Labor and industrial relations as a qualified substitute) for their on-site employees (Laborers, workmen, drivers, equipment operators, and craftsmen) who have not previously completed such a program and are directly engaged in actual construction of the improvement (or working at a nearby or adjacent facility used for construction of the improvement). The awarded contractors and its subcontractor(s) shall require all such employees to complete this ten-hour program, pursuant to 292.675 RSMO, unless they hold documentation on their prior completion of said program. Penalties for non-compliance include contractor forfeiture to the City of Joplin in the amount of $2,500, plus $100 per contractor and subcontractor employee for each calendar day such employee is employed beyond the elapsed time period for required program completion under 292.675 RSMO.

The successful bidder will have to sign an agreement that they are enrolled and participating in a Federal Work Authorization Program (“FWAP”) that ensures that all of its employees or agents or subcontractors have the legal right to work in the United States, as defined in 8 U.S.C. 1324a(h)(3) and RSMo§285.525.555, and that it will maintain this compliance for the entire duration of its contract with the City of Joplin, and will provide an Affidavit of Compliance to the City stating the same.

A bid bond or certified check for five percent of the total bid amount must accompany each bid. The successful bidder will be required to furnish a performance bond in the amount of his bid and shall
before entering on the work of said contract be licensed as a contractor of the City of Joplin, Missouri. The City reserves the right to evaluate all bids, to reject any bids and re-bid on a later date. The City may waive any irregularities in the bid or negotiate variances from specifications and make awards that are in the best interests of the City. The City will have final decision in all matters regarding acceptance of bids and issuance of awards.

The City encourages minority and female owned businesses to submit bids on all City purchases.

GENERAL INSTRUCTIONS

All bids shall have a firm-fixed F.O.B. Joplin; Missouri price and shall be honored for a minimum of ninety (90) days following the bid opening.

All bids shall be exclusive of Federal, State and City taxes.

Any protest or grievance must be issued in writing and delivered to the office of the Director of Finance within ten (10) days following the bid opening. Any protest filed after this time has elapsed will not be considered.

Preference will be given to local vendors or contractors who produce, manufacture, or market goods and/or services within the defined radius as described below; if the quality and price are comparable with all other goods and/or services offered to the City and all other factors to be considered in the bid award process are equal. A vendor or contractor is considered to be local if their principal place of business is located within a radius of twenty-five (25) miles from Joplin City Hall, with the majority of its primary business operations, including but not limited to, production, operation, purchasing, billing, marketing, management, administration and ownership, occurring within said radius. “Local” shall not include the following:

a) Those businesses with only a local post office box; or
b) Those businesses with a sales presence in said radius; or
c) Home based businesses that merely take orders for products shipped from out-of-town to their customers.

Once the bids are reviewed and evaluated, the successful vendor will be notified in writing in the form of an authorized purchase order. Verbal acknowledgements will not be considered as official notification and will not obligate the City in any way.

Minimum information to be submitted with each bid shall consist of the following:

1 Bid Form (all lines completed)
2 Bid bond

MARK BID ENVELOPES ; "BID #2018-10 Roof Renovations City Hall , Monday, September 17, 2018 "

SPECIFICATIONS

SECTION 0756 00.10 - FLUID-APPLIED ROOFING SECTION

PART 1 - GENERAL

PART 1 - GENERAL

1.1 SUMMARY

A. Scope of work includes the following over existing modified roof, Roof A:
1. Power wash the existing roof.
2. Remove replace any wet areas identified by the infra-red scan, install new insulation to match existing height and install one ply of heavy duty base sheet in urethane adhesive.
3. Prime any bare spots without granules with manufacturer's recommended primer.
4. Apply liquid applied base coat at 64 mils.
5. Embed polyester reinforcement into base coat.
6. Apply liquid applied top coat at 32 mils.
7. Install liquid applied flashings and accessories.
8. Install new sheet metal and accessories as identified at pre-bid.
9. Obsolete penetrations will be removed.

B. Provide alternate price for modified roofs B & C following the same scope of work for modified roof A.

1.2 QUALITY ASSURANCE FOR CONTRACTOR

A. Installer Qualifications: A qualified firm that is approved, authorized, or licensed by City of Joplin and roofing system manufacturer to install manufacturer's product and that is eligible to receive manufacturer's warranty.

B. Installer must have minimum $1,000,000 General Liability Insurance and name City of Joplin as additional insured.

C. Payment and Performance Bond: Contractor shall purchase 100% Payment and Performance Bonds for benefit of Owner, taxpayers and material suppliers.

D. **Bid Bond of 5% will be required with bid.**

E. **Pre-bid Conference: A mandatory pre-bid conference will be scheduled by City Joplin,**

F. **Attendance will include roofing contractor, manufacturer ’s representative, owner.**

G. **Pre-installation Conference: Conduct conference at Project site. Review methods and pro-cedures related to roofing system including, but not limited to, the following:**

H. **Meet with City Joplin personnel, roofing installer, and roofing system manufacturer's representative.**

I. **Review methods and procedures related to roofing installation, including manufacturer's written instructions.**

J. **Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.**

K. **Review base flashings, special roofing details, roof drainage, roof penetrations, equipment curbs, and condition of other construction that will affect roofing system.**

L. **All employees employed on project must have OSHA 10-hour certification class as per State Law House Bill 1549.**

M. **The contractor will forfeit a penalty to the contracting public body of $2500 plus $100 for each employee employed by the contractor or subcontractor for each calendar day, or portion thereof such employee is employed without the required training. (See section 292.675, RSMO, enclosed in the laws section.)**

N. **E - Verify: Contractors bidding on a contract for services in excess of $5,000 to provide a sworn affidavit and supporting documentation that affirms the contractor's participation in a federal work authorization program, such as E-Verify, and that the bidder will not employ illegal workers for the project. A contractor is only required to provide this affidavit to the City annually.**

O. **Proof of prevailing wage compliance for Jasper County, awarded contractor shall post all required on site notifications and postings.**

P. Contractor shall pay not less than the prevailing wage included must be paid to all workers performing work under the contract (see section 290.250, RSMo). Contractor will forfeit a penalty to the contracting public body of $100 per day (or portion of a day) for each worker that is paid less than the prevailing rate for any work done under the contract by the contractor or any subcontractor.

Q. It is the intent of the City of Joplin to contract the project directly to a certified or approved roofing manufacturer's installer not to a third party General Contractor who is not a Certified Installer. Primary contractor shall do a minimum of 80% of the required work to complete the project.

R. Manufacturer's Technical Representative Qualifications: A manufacturer's employee who is trained and approved by manufacturer to observe and inspect installation of manufacturer's products that are similar in material, design, and extent to those indicated for this Project. Manufacturer will provide weekly progress reports and a close out manual at the end of the project.

S. Preconstruction Testing: Where testing agency is indicated to perform preconstruction testing for compliance with specified requirements for performance and test methods, comply with the following:

1. Contractor responsibilities include the following:

    a. Provide test specimens representative of proposed products and construction.

2. Testing Agency Responsibilities: Submit a certified written report of each test, inspection, and similar quality-assurance service to, with copy to Contractor. Interpret tests and inspections and state in each report whether tested and inspected work complies with or deviates from the Contract Documents. Owner

1.1 PERFORMANCE REQUIREMENTS

A. General: Provide installed roofing membrane and base flashings that remain watertight; do not permit the passage of water; and resist specified uplift pressures, thermally induced movement, and exposure to weather without failure.

B. Roof System components shall meet performance requirements as called out in Section 2.2 Products Section for fluid applied roof system.

1.3 SUBMITTALS

A. Product Data: For each type of product indicated.

B. Cured Samples for Verification for the liquid applied aliphatic polyurethane roof system:

C. Product Test Reports: Based on evaluation of tests performed by qualified third party independent testing agency, indicate testing criteria results and compliance of product components listed in product section of specification.

D. Copy of Manufacturer's Warranty as described in Manufacturer's Warranty Section 1.4.

1.0 .0 .1 QUALITY ASSURANCE FOR MANUFACTURER

A. Manufacturer Qualifications: Approved manufacturer with UL listed roofing systems comparable to those specified for this Project, with minimum five years' experience in manufacture of comparable products in successful use in similar applications, and able to furnish warranty with provisions matching specified requirements.

1. Substitutions following award of contract are not allowed.

B. Roofing Inspector Qualifications: An employee of manufacturer not engaged in the sale of products and experienced in the installation and maintenance of the specified roofing system, qualified to perform roofing observation and inspection specified in Field Quality Control Article, to determine Installer's compliance with the requirements of this Project, and approved by the manufacturer to issue warranty certification.

C. Manufacturer's Installation Instructions: Obtain and maintain on-site manufacturer's written recommendations and instructions for installation of products.

C. Roof System components shall meet performance requirements as called out in Section 2.0 Products Section for fluid applied roof system.

1.0 .0 .2 DELIVERY, STORAGE, AND HANDLING

A. Deliver roofing materials to Project site in original containers with seals unbroken and labeled with manufacturer's name, product brand name and type, date of manufacture, approval or listing agency markings, and directions for storing and mixing with other components.

B. Store liquid materials in their original undamaged containers in a clean, dry, protected location and within the temperature range required by roofing system manufacturer. Protect stored liquid material from direct sunlight.

1. Discard and legally dispose of liquid material that cannot be applied within its stated shelf life.

C. Protect roof insulation materials from physical damage and from deterioration by sunlight, moisture, soiling, and other sources. Store in a dry location. Comply with insulation manufacturer's written instructions for handling, storing, and protecting during installation.

D. Handle and store roofing materials and place equipment in a manner to avoid permanent deflection of deck.

1.0 .0 .3 PROJECT CONDITIONS

A. Weather Limitations: Proceed with installation only when existing and forecasted weather conditions permit roofing system to be installed according to manufacturer's written instructions and warranty requirements.

B. Daily Protection: Coordinate installation of roofing so insulation and other components of roofing system not permanently exposed are not subjected to precipitation or left uncovered at the end of the workday or when rain is forecast.

1. Provide tie-offs at end of each day's work to cover exposed roofing and insulation with a course of roofing sheet securely in place with joints and edges sealed.

2. Complete terminations and base flashings and provide temporary seals to prevent water from entering completed sections of roofing.

3. Remove temporary plugs from roof drains at end of each day.

4. Remove and discard temporary seals before beginning work on adjoining roofing.

1.0 .0 .4 WARRANTY

A. Warranty, General: Warranties specified shall be in addition to, and run concurrent with, other warranties required by the Contract Documents. Manufacturer's disclaimers and limitations on product warranties do not relieve Contractor of obligations under requirements of the Contract Documents.

B. Manufacturer's Warranty Roof Area A Manufacturer agrees to repair or replace components of roofing system that fail in materials or workmanship within specified warranty period. Failure includes roof leaks.

1. Manufacturer's warranty includes roofing membrane, base flashings, fasteners, roofing membrane accessories and other components of roofing system specified in this Section.

2. Warranty Period: 20 years from date of Substantial Completion includes labor and material.

C. Installer's Warranty: Submit roofing Installer's warranty, on warranty form at end of this Section, signed by Installer, covering the Work of this Section, including all components of roofing system such as roofing membrane, base flashing, roof insulation, fasteners, cover boards, substrate boards, vapor retarders, and walkway products, for the following warranty period:

1. Warranty Period: Two years from date of Substantial Completion.

D. Manufacturer Inspection and Preventive Maintenance Requirement: By manufacturer's technical representative, to report maintenance responsibilities to Owner necessary for preservation of Owner's warranty rights. The cost of manufacturer's inspections and preventive maintenance is included in the Contract Sum.

1. Inspections to occur in the following years subsequent to completion: 2, 5, 10 and 15.

2. Manufacturer will also provide with warranty Owner access to an online roof information roof management program, whereby the owner can review the date of installation, copy of the warranty, photos of the roof and a CAD drawing of the roof.

PRODUCTS PART 2

2.0 MANUFACTURERS

A. Manufacturers: Subject to compliance with requirements, provide products by a manufacturer meeting qualification requirement in Quality Assurance Article.

B. Basis-of-Design Manufacturer/Product: The roof system specified in this Section is based upon products of Tremco, Inc., www.tremcoroofing.com .

C. Source Limitations: Obtain components for roofing system from same manufacturer as membrane roofing or manufacturer approved by membrane roofing manufacturer.

2.1 PERFORMANCE REQUIREMENTS

A. General Performance: Roofing shall withstand exposure to weather without failure or leaks due to defective manufacture or installation.

B. Impact Resistance: Roofing system shall resist impact damage when tested according to FM SH Hail Rating.

C. Material Compatibility: Provide roofing materials that are compatible with one another under conditions of service and application required, as demonstrated by membrane roofing manufacturer based on testing and field experience.

D. Exterior Fire-Test Exposure: ASTM E 108, Class A; for application and roof slopes indicated, as determined by testing identical membrane roofing materials by a qualified testing agency. Materials shall be identified with appropriate markings of applicable testing agency.

2.2 ROOFING MEMBRANE MATERIALS

A. Base Sheet Installed on replacement areas:

1. ASTM D 6163 Type III Grade S SBS-modified asphalt-coated composite glass fiber mat / glass fiber scrim sheet, dusted with fine mineral surfacing on both sides.

    a. Basis of design product: Tremco, POWER ply Heavy Duty Base Sheet.

    b. Tensile Strength at 0 deg. F (-18 deg. C), minimum, ASTM D 5147: Machine direction, 200 lbf/in; Cross machine direction, and 180 lbf/in.

    c. Elongation at 0 deg. F, minimum, ASTM D 5147: 3.0 percent.

d. Tear Strength at 77 deg. F minimum, ASTM D 5147: Machine direction 200 lb.; Cross machine direction, 220 lbf.

e. Thickness, minimum, ASTM D 5147: 0.120 inch (3.0 mm).

B. Fluid-Applied Roof System

1. Polyurethane roof coating system basecoat, bio-based, low-odor low-VOC two-part, for use with a compatible top coat.

a. Basis of design product: Tremco, AlphaGuard BIO Base Coat.

b. Combustion Characteristics, UL 790: Class A, for two-coat system.

c. Volatile Organic Compounds (VOC), maximum, ASTM D 3960: 1 g/L.

d. Accelerated Weathering, 5000 hours, ASTM G 154: Pass.

e. Hardness, Shore A, minimum, ASTM D 2240: 88.

f. Solids, by volume, ASTM D 2697: 100 percent.

g. Bio-Based Content: Not less than 70 percent.

2. Polyurethane roof coating system topcoat, bio-based low-odor low-VOC two-part, for application over compatible base coat.

a. Basis of design product: Tremco, AlphaGuard BIO Top Coat.

b. Combustion Characteristics, UL 790: Class A, for two-coat system.

c. Volatile Organic Compounds (VOC), maximum, ASTM D3960: 6 g/L.

d. Solar Reflectance Index (SRI), ASTM E 1980: 103.

e. Accelerated Weathering, 5000 hours, ASTM G 154: Pass.

f. Hardness, Shore A, minimum, ASTM D 2240: 82.

g. Solids, by volume, ASTM D 2697: 85 percent.

h. Bio-Based Content: Not less than 60 percent.

3. Polyester Reinforcing Fabric: 100 percent stitch-bonded mildew-resistant polyester fabric intended for reinforcement of compatible fluid-applied membranes and flashings.

   a. Basis of design product: Tremco, Permafab.

   b. Tensile Strength, ASTM D 1682: Not less than 50 lbf. (222 N).

   c. Elongation, ASTM D 1682: Not less than 60 percent.

   d. Tear Strength, ASTM D 1117: Not less than 16 lbf. (70 N).

   e. Weight: 3 oz./sq. yd (102 g/sq. m).

2.3 AUXILIARY ROOFING MATERIALS

A. General: Auxiliary materials recommended by roofing system manufacturer for intended use and compatible with roofing membrane.

B. Joint Sealant: Elastomeric joint sealant compatible with roofing materials, with movement capability appropriate for application.

C. Sheet Metal: Counterflashings and metal copings:

1. Galvanized, pre-painted: Twenty-four (24) gage minimum, galvanized steel; commercial quality, All sheet metal to be Kynar coated pre-painted and approved by roofing manufacturer.

D. Walkways: For finish coat slip resistance: Ceramic 3M granules embedded after roof has cured with 1.5 gallons of top coat at access door ways to service sides of units and to access ladder to upper roof area.

2.4 ROOF INSULATION TO MATCH EXISTING HEIGHT

A. Roof Insulation:

1. Polyisocyanurate board insulation, ASTM C1289 Type II Class 1 CFC- and HCFC-free, with recycled content glass-fiber mat facer on both major surfaces. CCMC listed.

B. Roof Insulation Cover Board:

1. Cellulosic fiber reinforced water-resistant gypsum panel, ASTM C 1278/C 1278M.

a. Thickness: 1/4 inch (6mm).

PART 3.0 EXECUTION

3.1 GENERAL INSTALLATION REQUIREMENT

A. Use products with personal protection equipment. User must read container label and material safety data sheets prior to use.

B. Store all materials prior to application at temperatures between 60ºF and 90ºF

C. Use with adequate ventilation.

D. Do not apply materials when air temperature is below 50º Fahrenheit or above 110º Fahrenheit. Cure times are extended at temperatures below 50º Fahrenheit.

E. Prevent materials from penetrating substrate joints, entering building, or damaging roofing system components or adjacent building construction.

F. Painters tape shall be used to mask detail areas and metal flashings. Remove tape while fluid-applied material remains wet.

G. All flashings shall be done first, before the field of the roof is covered. After base coat and reinforcement mat have been installed, and before the top coat is installed, a thorough inspection of the surface must be conducted by the manufacturer's technical representative. The reinforcement mat must be completely encapsulated by the base coat, with no pinholes or voids, at the end of each work day.

H. Coverage rates of base coat and top coat must be continuously verified for proper wet film thickness with a wet mil gauge.

I. Raised or exposed reinforcement mat shall be sanded smooth prior to application of top coat.

3.2 SUBSTRATE PRIMER INSTALLATION

A. Direct to smooth asphaltic materials:
1. Apply manufacturer's recommended primer at 200 – 250 sq. ft. per gallon.

B. Direct to Concrete: Two-part epoxy 100% solids primer.
1. Mixing: Use clean containers and mixing equipment. Using a low speed "Jiffy" type mixer, mix the A & B components separately for approximately one minute.
2. Combine one part by volume Part A with one part by volume "B". Mix the components thoroughly for three to five minutes.
3. Scrape the bottom and sides of the mixing container at least once. Do not aerate the blend. Mix only enough material that can be used within the working life.
4. Application: The ambient and surface temperature should be between 50ºF to 90ºF.
5. Apply using a short nap roller, squeegee, brush or an airless spray according to manufacturer's written instructions. Coverage rates may vary depending on concrete surface conditions.
6. Surface temperature, porosity and texture will determine actual material quantities. Ensure primer does not puddle and substrate has complete coverage.
7. Fluid-applied base coat can be applied as soon as the primer has become tack free.

3.3 LIQUID APPLIED ROOFING INSTALLED OVER GRANULAR MODIFIED ROOF

A. Membrane Surface Preparation:
1. Remove blisters, ridges, buckles, repair irregularities projecting above the membrane, and other substrate irregularities from existing roofing membrane that would inhibit application of uniform, water proof coating.
2. Repair membrane at locations where irregularities have been removed.
3. Clean existing substrate of contaminants such as dirt, debris, oil, and grease that can affect adhesion of coating by power washing at maximum 800 psi. Allow to dry thoroughly.
4. Verify that existing substrate is dry before proceeding with application of coating. Spot check substrates with an electrical capacitance moisture-detection meter.
5. Verify adhesion of new products.

B. Limited Roof Tear-Off: Remove and replace the wet areas as identified by infra-red scan. Remove down to the decking. Install insulation to match existing height and install one ply of heavy duty base sheet in cold adhesion.
1. Strip in perimeter of replacement areas with base coat and reinforcement mat, tie-in minimum 8" onto adjacent roof area.

2. Notify Owner each day of extent of roof tear-off proposed and obtain authorization to proceed.
3. During removal operations, have sufficient and suitable materials on-site to facilitate rapid installation of temporary protection in the event of unexpected rain.

3.4 PRIME SUBSTRATE:

A Apply manufacturer's recommended primer at 200-250 sq. ft. per gallon for on areas where there are no granules present, **no need to prime a granulated modified surface**.

B. Metal substrates will be primed with Alphaguard M Primer. or approved equal,

3.5 FLASHING REPAIR
A. Fluid-Applied Flashing Application: Complete base coat and polyester reinforcement at parapets, curbs, penetrations, and drains prior to application of field of fluid-applied membrane.
1. Extend coating minimum of 8 inches up vertical surfaces and 4 inches onto horizontal surfaces.

B. At modified curbs, walls, and penetrations:
1. Clean substrates of contaminants such as asphalt, sheet materials, dirt, and debris.
2. Mask off perimeter areas where non-coated areas intersect with coated areas to keep sur faces clean of coating.
3. Install liquid applied flashings as per manufacturer’s recommendation.
4. Install new skirt metal counterflashing over top of all new fluid applied flashings.

C. At parapet Wall:
1. Remove any loose modified flashings.
2. Apply liquid applied flashings up to the base of the concrete coping cap.
3. Install new underlayment across stone coping cap.
4. Fabricate and install new sheet metal coping sloped inward to drain. Flat metal

coping
will be cause for rejection.

3.6 FLASHING AND STRIPPING INSTALLATION

A. Base coat and fiberglass reinforcement must be installed on all curbs, penetrations, and drains
before moving to installation in the field.

1. Install masking tape or similar along the top edge of flashings where base coat will terminate.
2. Prime all metal surfaces with manufacturers recommended primer prior to installing flashings.
3. Install base coat to flashing surfaces according to manufacturer's written instructions. Extend coating up vertical surfaces a minimum of 8 inches and out onto horizontal surfaces 6 inches. Back roll to achieve a minimum wet mil coating thickness as required by the manufacturer.
4. Install polyester reinforcement immediately into wet base coat. Extend reinforcement up vertical surfaces a minimum of 8 inches and out onto horizontal surfaces 6 inches. Install according to manufacturer's written instructions.
   a. Lap adjacent flashing pieces of reinforcement mat no less than 3".
5. Roll the surface of the polyester to completely embed it into the wet base coat.
6. Mat must be fully encapsulated in base coat and not contain pin holes, voids, or openings.

3.7 FLUID-APPLIED MEMBRANE APPLICATION

A. Base coat and polyester reinforcement installation:
1. Install base coat directly onto substrate and spread coating evenly according to manufacturer's written instructions. Install primer as directed by manufacturer.
2. Back roll to achieve minimum wet mil thickness per manufacturer's written instructions.
3. Install reinforcement mat immediately into wet base coat. Roll surface of polyester to fully embed into wet base coat. Roll until fully saturated.
   a. Lap adjacent rolls of glass mat no less than 3". End laps shall be no less than 6".
   b. Lap onto flashing no less than 3".
4. Roll the surface of the mat to completely embed it into the wet base coat.
5. Allow base coat to cure a before installing top coat.
6. Reinforcement mat must be fully encapsulated in base coat and not contain pin holes, voids, or openings.

B. Top coat installation for field of roof and flashings:
1. Priming of the base coat may be required if top coat is not applied within 72 hours of the base coat application. The base coat shall be lightly primed with manufacturer's recommended primer.
2. Install top coat on flashings first. Extend coating up vertical surfaces a minimum of 8 inches and out onto horizontal surfaces.
3. Install top coat directly over field base coat and spread coating evenly according to manufacturer's written instructions.
4. Back roll to achieve a minimum wet mil thickness according to manufacturer's written instructions.
5. Avoid foot traffic on new fluid-applied membrane for a minimum of 24 hours.

3.8 WALKWAY INSTALLATION

A. Install walkways following application of top coat. Locate as indicated, or as directed by Owner.

1. If walkway application is not applied within 7 days of the top coat application the top coat shall be primed with manufacturer's recommended primer.
2. Apply additional application of top coat 1.5 gallons per square to taped walkway area according to manufacturer's written instructions.
3. Broadcast approximately 20-30 lbs. per 100 sq. ft. of ceramic granules in the wet top coat material.
4. Immediately back roll granules and top coat, creating an even dispersal of sand. Remove tape outlining walkway immediately.

3.9 FIELD QUALITY CONTROL

A. Final Roof Inspection: Arrange for roofing system manufacturer's technical personnel to inspect roofing installation every day and on completion and submit report to the Owner.

1. Notify Owner 48 hours in advance of date and time of final inspection.
2. Repair fluid-applied membrane where test inspections indicate that they do not comply With specified requirements.
3. Additional inspecting, at Contractor's expense, will be performed to determine compliance of replaced or additional work with specified requirements.

3.10 PROTECTING AND CLEANING

A. Protect roofing system from damage and wear during remainder of construction period.

B. Correct deficiencies in or remove coating that does not comply with requirements, repair substrates, and reapply coating.

C. Clean overspray and spillage from adjacent construction using cleaning agents and procedures recommended by manufacturer of affected construction.

GENERAL CONDITIONS

By executing the contract, the Contractor represents that they have visited the site, familiarized themselves with all conditions under which the work is to be performed and correlated their observations with the requirements of the contract.

The Contractor shall be responsible for any permits and licenses necessary for the execution of the work.

The Contactor shall at all times enforce proper conduct among their employees and shall not employ on the project any unfit person or any work person not skilled in the task assigned to them.

The Contractor will be held responsible for determining if weather conditions on any given day will permit successful completion of work started on the day. Where removal of existing roof is required, the Contractor will remove no more roof area than

can be replaced on the same day, carrying new work to a point where it is in water tight conditions. Building interiors must be kept dry at all times.

The Contractor shall have ninety (90) days upon issuance of the purchase order and receipt of a performance bond by the City to complete the project. In the event of inclement weather or any other unforeseen circumstances, extensions shall be granted; otherwise a one hundred (100) dollar per day penalty is deducted from the contract amount if the contract is not completed in the specified time.

The Contractor shall at all time keep the premises free from accumulation of waste materials or rubbish caused by their operations. On completion of the work, Contractor shall remove all waste materials and trash from the job site, as well as tools, equipment and surplus materials.

Any details or practices not covered by the specifications or other contract documents shall be in full compliance with current NRCA roofing and waterproofing manual, good roofing practices and with acceptable fire insurance requirements and/or local building codes. Sheet metal work will follow as a minimum guideline SMACNA Details.

City Of Joplin

Bid Form

Description: Roof Renovations City Hall

BASE BID PRICE

$_____

ALTERNATE BID PRICE

$_____

COMPANY_____

ADDRESS_____

_____

SIGNATURE_____

TELEPHONE_____

MARK BID ENVELOPES”BID #2018-10 ROOF RENEVATIONS CITY HALL 10:00 AM SEPTEMBER 17, 2018”

Unauthorized Aliens Workers Act

The successful bidder will have to sign an agreement that they are enrolled and participating a Federal Work Authorization Program (“FWAP”) that ensures that all of its employees or agents or subcontractors have the legal right to work in the United States, as defined in 8 U.S.C. 1324a(h)(3) and RSMo § 285.525-285.555, and that it will maintain this compliance for the entire duration of its contract with the City of Joplin, and will provide an Affidavit of Compliance to the City stating the same.

AFFIDAVIT OF COMPLIANCE
(Missouri Unauthorized Alien Workers Act)

My name is _____ (name) _____ and I am the _____ (Title) _____ of _____ (Company Name) _____. I hereby represent, affirm and certify to the City of Joplin that my company does not knowingly employ any person who is an unauthorized alien in connection with contracted services with the City. I further affirm that my company is actively enrolled and participating in a federal work authorization program with respect to all employees working in connection with the contract services provided to the City.

_____

–

Affiant