

RIVERVIEW GARDENS

SCHOOL DISTRICT

1370 Northumberland – St. Louis, Missouri 63137
Telephone: 314-869-2505 ☎ Fax: 314-388-6001

Note: The Riverview Gardens School District will not accept any bids which are received after the published bid opening time and date indicated below and will not be responsible for any bids mailed or delivered to any address other than those above. No exceptions!

FORMAL BID PROPOSAL BID OPENING SCHEDULE

BID NUMBER: RFP No. 251
BID TITLE: Roof Repair for Lemasters Elementary School
BID WALKTHROUGH: March 31, 2020; 8:30 a.m.
BID OPENING DATE: April 7, 2021
BID OPENING TIME: 2:00 p.m.

VENDOR NAME: _____

MAILING ADDRESS: _____

VENDOR TELEPHONE NO.: _____

VENDOR FAX NO.: _____

VENDOR E-MAIL ADDRESS _____

All items contained in this bid shall be as specified or RGSD approved equal. For any item(s) proposed which is other than as specified, a complete and detailed cut and description for each item(s) must accompany the bid, if the item(s) is to be considered. Please carefully read each section of this bid.

I/WE UNDERSTAND AND AGREE THAT NEITHER THE AWARD OF THIS BID TO ME/US BY THE DISTRICT'S BOARD OF TRUSTEES NOR RECEIPT BY ME/US OF A NOTICE OF ACCEPTANCE OF THIS BID SHALL CONSTITUTE THE MAKING OF A CONTRACT BETWEEN RGSD AND ME/US, WHICH SHALL BE CONDITIONED UPON THE EXECUTION BY BOTH RGSD AND ME/US OF A FORMAL, WRITTEN AGREEMENT.

PLEASE SUBMIT ORIGINAL BID DOCUMENTS AND THREE COPIES.

PROPOSAL FORM

**Board of Trustees
Riverview Gardens School District
St. Louis, Missouri**

Ladies and Gentlemen:

I/We, propose to furnish and deliver all items and/or to perform all services according to all sections of this bid document (Proposal Form, Instructions and Conditions, detailed written Specifications, and Addenda if applicable) and in the quantities at the indicated prices, as called for in the document(s). All quantities indicated have been checked very closely, and both unit price and total price (where requested) have been submitted with the understanding that we shall be responsible for making complete and satisfactory delivery accordingly, within the timeframe agenda (if applicable).

All items contained in this bid shall be as specified or RGSD approved equal. For any item(s) proposed which is other than as specified, a complete and detailed cut and description for each item(s) must accompany the bid, if the item(s) is to be considered. Please carefully read each section of this bid.

I/WE UNDERSTAND AND AGREE THAT NEITHER THE AWARD OF THIS BID TO ME/US BY THE DISTRICT'S BOARD OF TRUSTEES NOR RECEIPT BY ME/US OF A NOTICE OF ACCEPTANCE OF THIS BID SHALL CONSTITUTE THE MAKING OF A CONTRACT BETWEEN RGSD AND ME/US, WHICH SHALL BE CONDITIONED UPON THE EXECUTION BY BOTH RGSD AND ME/US OF A FORMAL, WRITTEN AGREEMENT.

Respectfully submitted,

COMPANY _____

ADDRESS _____

PHONE _____

FAX _____

E-MAIL ADDRESS _____

SIGNED _____

WRITE OUT
SIGNATURE _____

TITLE _____

DATE _____

CIRCLE THE OPERATING STATUS OF YOUR BUSINESS AS INDICATED BELOW:

MINORITY OWNED WOMAN OWNED NON-MINORITY

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REQUEST TO ADD VENDOR (Substitute Form W-9)

To be completed by RGSD School/Location:

Location Requesting Vendor Addition ___ Multiple locations within District _____

To Be Completed by Vendor: Please complete all sections and return with submitted proposal.

Will your company accept purchase orders? ___ Yes ___ No

Will your company accept purchasing/credit card? ___ MC/Visa ___ American Express

Note: An original RGSD purchase order is required for all material purchases. Do not accept any order without an original RGSD purchase order.

Product Line _____

PARENT COMPANY NAME: _____

D/B/A NAME: _____

Order Address: _____

City: _____ State: _____ Zip: _____

Physical Address: _____

City: _____ State: _____ Zip: _____

Contact Person: _____

REMITTANCE ADDRESS:

Vendor Name: _____

Address: _____

City: _____ State: _____ Zip: _____

Phone: (____) _____ Fax (____) _____

Email Address: _____

Federal Tax ID/Social Security #: _____

Select One

Minority Code: ___ Woman & Minority ___ Minority
 ___ Non-Minority ___ Woman

Select One

Type of Entity ___ Individual/Sole Proprietor ___ Corporation
 ___ Partnership ___ Other _____

******RGSD accepts no responsibility for orders filled without a valid purchase order.**

Submitted By: Signature

Date

FOR INTERNAL USE ONLY

Vendor Number: _____

1099: ___ Yes ___ No

Completed By: _____

Date: _____

FEDERAL WORK AUTHORIZATION PROGRAM (“E-VERIFY”)

Pursuant to Missouri Revised Statute 285.530, all business entities awarded any contract in excess of five thousand dollars (\$5,000) with a Missouri public school district must, as a condition to the award of any such contract, be enrolled and participate in a federal work authorization program with respect to the employees working in connection with the contracted services being provided, or to be provided, to the Riverview Gardens School District (to the extent allowed by E-Verify). In addition, the business entity must affirm the same through sworn affidavit and provision of documentation. In addition, the business entity must sign an affidavit that it does not knowingly employ any person who is an unauthorized alien in connection with the services being provided, or to be provided, to the Riverview Gardens School District (the District).

Accordingly, your company:

- a) agrees to have an authorized person execute the attached “Federal Work Authorization Program Affidavit” attached hereto as Exhibit A and deliver the same to the District prior to or contemporaneously with the execution of its contract with the District;
- b) affirms it is enrolled in the “E-Verify” (formerly known as “Basic Pilot”) work authorization program of the United States, and are participating in E-Verify with respect to your employees working in connection with the services being provided (to the extent allowed by E-Verify), or to be provided, by your company to the District;
- c) affirms that it is not knowingly employing any person who is an unauthorized alien in connection with the services being provided, or to be provided, by your company to the District;
- d) affirms you will notify the District if you cease participation in E-Verify, or if there is any action, claim or complaint made against you alleging any violation of Missouri Revised Statute 285.530, or any regulations issued thereto;
- e) agrees to provide documentation of your participation in E-Verify to the District prior to or contemporaneously with the execution of its contract with the District (or at any time thereafter upon request by the District), by providing to the District an E-Verify screen print-out (or equivalent documentation) confirming your participation in E-Verify;
- f) agrees to comply with any state or federal regulations or rules that may be issued subsequent to this addendum that relate to Missouri Revised Statute 285.530; and
- g) agrees that any failure by your company to abide by the requirements a) through f) above will be considered a material breach of your contract with the District.

By: _____
(Signature)

Printed Name and Title: _____

For and on behalf of: _____
(Company name)

EXHIBIT A

FEDERAL WORK AUTHORIZATION PROGRAM AFFIDAVIT

I, _____, being of legal age and having been duly sworn upon my oath, state the following facts are true:

1. I am more than twenty-one years of age; and have first-hand knowledge of the matters set forth herein.
2. I am employed by _____ (hereinafter "Company") and have authority to issue this affidavit on its behalf.
3. Company is enrolled in and participating in the United States E-Verify (formerly known as "Basic Pilot") federal work authorization program with respect to Company's employees working in connection with the services Company is providing to, or will provide to, the District, to the extent allowed by E-Verify.
4. Company does not knowingly employ any person who is an unauthorized alien in connection with the Services Company is providing to, or will provide to, the District.

FURTHER AFFIANT SAYETH NOT.

By: _____

(Individual signature)

For _____

(Company name)

Title: _____

Subscribed and sworn to before me on this _____ day of _____, 200____.

NOTARY PUBLIC

My commission expires:

The Special Administrative Board of the Riverview Gardens School District (hereafter referred to as "RGSD") is soliciting sealed, written formal bid proposals from qualified vendors (hereafter referred to as "Vendor") for the purchase of furniture, equipment, supplies, materials, labor or services as outlined in the following specifications. Sealed bids shall be received by RGSD, in the Business Office of the Riverview Gardens School District, 1370 Northumberland, St. Louis, Missouri- 63137, until the time specified on the Bid Opening Schedule (front page of the formal bid document), at which time all bids shall be publicly opened and read aloud. Neither dating of the bid form nor placing the bid in the mail by this date shall meet legal requirements; the formal bid document must be **received in the Business Office** of the Riverview Gardens School District on or before the date and time stated.

RGSD reserves the right to reject any and all bids received and to waive any and all informalities. Vendors are encouraged to very carefully read all sections of this bid document prior to submitting a bid proposal.

It is the basic philosophy of RGSD to extend to all responsible Vendors equal consideration and the assurance of unbiased judgment in determining whether their product or service meets specifications and the educational needs of the school district. RGSD shall fairly evaluate all formal bid proposals submitted and base all decisions on the "lowest and best" bid concept, purchasing only those products and/or services which meet the specifications as written. All decisions rendered shall strive to achieve the greatest value from every tax dollar expended. RGSD shall make no discrimination based on race, color, creed, religion, or national origin, in either the product evaluation process or in transacting business with Vendors or Vendor representatives.

The advertising and publishing of this formal bid has met all legal requirements of the Missouri State statute and policies of the RGSD Board of Education, hence the requirement to offer public notice of the intent of RGSD to solicit bids via this bid document has been satisfied.

This document is to serve as an invitation to all qualified vendors to extend to RGSD, an offer, for the sale of all products and/or services specified herein. It is the purpose of this bid document to clearly define "open" and "competitive" product or service bid specifications. All items on this bid are to be **as specified or RGSD approved equal**.

Addenda: Vendor shall acknowledge the receipt of all addenda which were issued during the course of this formal bid. If specified in the text of the addenda, in addition to acknowledging receipt of the addenda below, the addenda may require additional information required for the bid (e.g., pricing), in which case the Addenda shall not only be acknowledged below but shall be completed and attached to the bid at the time the bid proposal is submitted. Receipt of the following Addenda issued during the course of this formal bid is hereby acknowledged:

Addendum Number		Date	
Addendum Number		Date	
Addendum Number		Date	

It is acknowledged that this formal bid proposal consists of the following sections: **PROPOSAL FORM, INSTRUCTIONS AND CONDITIONS, SPECIFICATIONS** and any **ADDENDA** (if applicable). The detailed specifications section may include blueprints, drawings, or other documents which shall be deemed to be a part of these written specifications. I/We understand that each form is to be signed as required in the specifications, and unless this has been done, the bid proposal may be considered incomplete and therefore rejected. Likewise, it is understood that the submission of all documents called for in the detailed specifications shall be submitted as defined in the specifications, and that failure to do so may result in rejection of the bid in part or in total. I/We, the undersigned, do hereby understand and accept all sections of this bid document and all addenda (if applicable) under which this quotation is being submitted and agree to perform in compliance with the specification requirements as set forth herewith.

I/We further agree that RGSD reserves the right to award the order, if awarded, within forty-five (45) calendar days from the date of the bid opening, unless otherwise indicated in the written specifications which follow. Consequently, I/We agree not to request permission to withdraw the quotation after bids have been publicly opened for this period of time. Having carefully examined all elements of the specifications and addenda, I/we propose to furnish all furniture, equipment, supplies, materials, labor or services required according to the written bid specifications in connection with this bid and do hereby submit the following formal bid proposal, for the total amounts indicated on the proposal form pages, where requested in the bid document.

The individual signing this Bid Proposal shall be a responsible officer of the company and shall be authorized to sign on behalf of the company.

**** End Proposal Form Section of This Bid Document ****

INSTRUCTIONS AND CONDITIONS

Preparation of Bid Proposals

Vendors should adhere to all of the instructions and conditions as contained in this section of the bid as well as all other sections of these bid specifications; failure to do so may result in rejection of the bid.

All bid proposals must be completed in ink or typewritten; all bids must be manually signed. No erasures shall be permitted; mistakes may be crossed out and corrections inserted adjacent. All corrections (including "white-out") must be initialed in ink by the person signing the bid proposal. The proposal must be signed with the firm or corporate name and by a responsible officer or employee of the firm. Vendor is to acknowledge receipt of any and all addenda (if any) re bid specifications and/or drawings which are published for this bid. All addenda shall be acknowledged as outlined in the Proposal Form section of this bid document.

Vendors should respond by using the proposal form and all other sections of this bid document without alterations, where information is requested. For every item proposed, the "Unit Price," "Total Price," (where requested), and "Quoting On" lines must be completed. All information concerning warranties, delivery dates, etc., where requested, must be completed by the Vendor; all "checklists" must be completed and submitted with the bid, if required in the specifications.

Pages on which there are no items being quoted by the Vendor, may be detached, and only those pages which contain a quoted item(s), along with the signed proposal form (both pages of the proposal form) and all other documents stated in the detailed specifications need be returned. On pages in which there are both items being quoted and items for which a price quotation is not being offered, the Vendor shall indicate "No Bid" on the "Total Price" line for all items not being offered for bid.

Prices must be stated in units specified hereon; i.e., in the units of measure indicated (per each, or dozen, case, etc.). RGSD shall not be responsible for pricing which does not conform to the unit of measure indicated, and likewise RGSD has no authority to amend a unit price once submitted even if the error is obvious. Pricing must be stated in U.S. dollars and cents and shall be offered in a known amount; i.e., a bid which simply states "My bid is \$1.00 lower than the lowest bid received" shall not constitute a legal bid proposal.

Submission of Bid Proposals

Bids, once completed, should be placed in an opaque envelope with the Vendor name and bid number as they appear on the proposal form written on the envelope, in order that the bid may be accurately registered upon receipt. A responsible official who is a legal representative of the Vendor must sign the attached proposal form, in order for the bid to be valid and acceptable. A bid which is not signed is not binding on the part of the Vendor and therefore does not constitute an informality which may be waived by RGSD. Should a return label not be included with the bid document, address the outside of the envelope as follows:

IF MAILED	IF DELIVERED
Riverview Gardens School District	Riverview Gardens School District
Business Office	Business Office
Attention: Lavon Singleton	Attention: Lavon Singleton
Chief Financial Officer	Chief Financial Officer
1370 Northumberland Drive	1370 Northumberland Drive
St. Louis, MO 63137	St. Louis, MO 63137

In addition, the following information should be indicated on the outside of the bid envelope: (a) Vendor Name and Address and (b) Bid Name and Number and Bid Opening Date, as listed on the Bid Opening Schedule. If a bid is opened prematurely because of failure to adhere to this requirement, the bid will be rejected.

If the District's Business Office is closed for any reason, including but not limited to inclement weather, an emergency situation or any other act of nature, which closure prevents the opening of bids at the previously advertised date and time, all bids received shall be publicly opened and read aloud on the next work day that the District's Business Office shall be open for business at the previously advertised time. The new date and time of bid opening, as determined in accordance with this paragraph, shall not be advertised, and all Vendors, upon submission of a bid proposal, shall be deemed to have knowledge of and shall have agreed to the provisions of this paragraph. In such event, bids shall be received by the District until the new date and time of the bid opening as set forth herein. RGSD shall not be held responsible for the receipt of any bids the delivery of which was attempted and failed due to the closure of the Business

Office. Each Vendor shall be required to ensure the delivery and receipt of its bid by RGSD's Business Office prior to the date and time of bid opening.

Modification and Withdrawal of Bids and Late Bids

Bid proposals should be verified before submission for accuracy and correctness, since RGSD shall not be responsible for any errors for which the Vendor is responsible. Bids may be modified or withdrawn by written notice or in person from the Vendor, if received in the Business Office prior to the time set forth in the Bid Opening Schedule; no telephone oral withdrawals shall be accepted. Notations written by the vendor on the outside of the bid envelope stating that an amount is to be "added" or "deducted" from the pricing structure submitted on the bid document sealed inside the envelope shall not be deemed permissible; all such notations shall be ignored relative to pricing submitted by the vendor. The pricing submitted on the form(s) provided by RGSD shall be deemed to constitute the legal pricing offered by the vendor and it is that pricing which shall prevail and for which the vendor shall be accountable.

NO bids may be accepted, modified or withdrawn which are received in the Business Office, after the time set for the opening of bids. NO EXCEPTIONS! Any and all bids received after the bid opening time and date indicated on the Bid Opening Schedule shall be refused and marked "Late Bid" and returned to the Vendor, unopened. No formal bid proposals may be "faxed" and no telegraphic modifications may be made to any bid proposal once received by RGSD; all changes shall be made prior to the bid opening **on the document** submitted to RGSD.

Acceptance and Award of Bid Proposals

The Vendor's bid proposal, once submitted and accepted as a valid bid by RGSD, shall be deemed by both parties to constitute a legal and binding offer on the part of the Vendor to sell to RGSD as per the terms of the bid specifications, all products and/or services contained therein. Bid proposals are subject to acceptance by RGSD at any time within forty-five (45) calendar days following the bid opening date. Consequently, all price quotations shall be effective for a minimum of forty-five (45) calendar days and a maximum period as indicated in the specifications. All bids must be valid for the effective dates stated in the specification, if applicable.

Award of contract shall be made to the responsible Vendor whose bid, conforming to the specifications, is deemed to be the most advantageous to RGSD, price and all other factors considered. The Vendor acknowledges the right of RGSD to reject the bid, in part or in total, if the Vendor fails to submit the data required in the specifications, or if the bid is in any way incomplete or irregular. Under no circumstances may a Vendor deliver, install, or perform any service as specified in these specifications without written authorization from RGSD (i.e., a duly issued purchase order or signed contract). All formal bid proposals shall be approved by the Board of Trustees prior to the award of the bid.

The Vendor shall be issued a purchase order document, which shall be deemed acceptance of the bid proposal offer made by the Vendor, for all items and/or services approved by the Board of Trustees and awarded as a result of this bid. However, if in the opinion of RGSD a contract document is required to authorize the award of the bid, Vendor agrees to sign and execute all such contract documents as required in the written specifications. NOTE: if Vendor policy requires that RGSD sign Vendor contract documents, a sample of all such documents shall be included with the bid proposal and shall become a part of the Vendor's bid proposal.

No Response to Bid Quotation

Due to the ever-increasing postal rates, it is necessary to remove the names of Vendors from bid mailing lists which do not respond in writing to formal bid proposals which are mailed to them. Henceforth, it shall be interpreted that a Vendor no longer wishes to remain on the bid mailing list for any bid, unless the Vendor offers a bid proposal or returns the cover sheet of the bid marked "NO BID - Please Leave Name on Active Bid Mailing List." Likewise, for the Board's information, please indicate on a sheet of your company's letterhead, the reason(s) why your company is not submitting a bid proposal in response to these specifications at this time. Failure to respond at all to an offer to bid shall result in the removal from the bid mailing list. It shall be the responsibility of the Vendor to notify RGSD in writing if the Vendor relocates or if there is a change of address.

Rejection of Bid Proposals

RGSD reserves the exclusive right to reject the bid of any Vendor in part or total for reasons deemed appropriate, such as a documented past experience(s) in which the Vendor failed to perform according to stated specifications once awarded the bid, suspicious financial responsibility of the Vendor, instances in which Vendor offered references were checked with resulting negative connotations, etc. RGSD reserves the right to accept the "lowest and best" bid, which in their judgment, assures RGSD the product(s) or service(s) having the best performance and the highest level of function, quality and value. Any Vendor which does not indicate on the "Quoting On" line for each item on which a quotation is submitted, exactly what is being offered, may expect that item to be rejected, due to the fact that what is being offered cannot be clearly identified and compared to what is specified.

Approved Equal

It is the intent of this document to clearly define "open" and competitive product or service bid specifications. All items on this bid are to be as specified or RGSD approved equal; RGSD shall reserve the exclusive right to determine products and or services which are approved as equal to those specified herein. Reference in these specifications to and the use of the name and model number of any article, product, material or item of furniture and equipment by proprietary name, manufacturer or manufacturer's model or catalog number in describing an item, is intended to establish a standard of type, quality and design, and is therefore not intended to limit competition. Vendors may submit bid proposals for products which are of a different manufacturer and model number from that which is specified, provided the herein procedure is adhered to exactly. However vendors are encouraged to offer products of those manufacturers and model numbers specified, if at all possible.

For any item(s) which is proposed, which is other than as specified (brand name and number), it is the responsibility of the Vendor to submit, with the bid proposal, a manufacturer's published detailed cut and description, catalog, or other descriptive document, explaining in detail, exactly what is being proposed. Likewise, any support literature for any item(s) proposed which is other than as specified (manufacturer and model number), shall be clearly labeled as to the **Vendor's Name**, the **Item Number** as appears in the specifications and the **Item Name**. It shall be the responsibility of the Vendor to insure that a detailed, technical description is provided for all items which shall allow for an accurate comparison to the item specified. All such support documentation shall be submitted with the bid proposal and shall be organized in one of the following manners:

- (a) Bound Volume of Pages - for each item, a picture and detailed product specification (for the exact manufacturer and model number proposed) shall be pasted on an 8 1/2" X 11" sheet of paper and bound in a cover with the Vendor's Name on the outside of the cover. The item number and item name as listed in the bid specifications shall be indicated at the top of each page. The support literature shall be organized in a bound volume in order by item number. Preferably, only one item shall be placed on each page.
- (b) Published Catalog - it shall be permissible to submit with the bid, a general or manufacturer's product catalog clearly indicating the detailed product information concerning the proposed product; however, if this method is utilized, it shall be the responsibility of the Vendor to place beside the product manufacturer and model number on the "Quoting On" line the correct **page number** in the catalog which is submitted, on which the product may be found. RGSD shall not research catalog table of contents or indexes attempting to locate items which are offered on this bid.

In addition it shall be the responsibility of the Vendor to clearly define any deviations that exist from specifications, if any, between what is proposed and what is specified, for each item offered, which is other than as specified. All such information relating to product deviations may be placed in the bid proposal either on the page below the item specification or on a separate sheet. If a separate sheet is utilized, the page shall be entitled "Proposed Product Deviations" and each item shall be clearly labeled as to number and name as they appear in the specifications. Failure to provide such documenting evidence to support any such item offered and/or any significant product deviations may result in rejection of the item(s) involved.

Pre-Bid Approval of Items

Preference shall be given to those manufacturers and models which have been granted pre-bid approval based on past performance. Vendors are encouraged to request approval of their brands and models for each item(s) which are to be offered via bid in the future, in order to meet specifications as listed on this bid. All such requests shall be made in writing to the Chief Financial Officer. After the bid has been published, all decisions as to product approved equals shall be made following the bid opening. Where applicable, for the products and/or services to be provided in the specifications, preference shall be granted to those Vendors which offer local sales and service, parts inventories, user training orientation, etc. In the case of "tie bids", all factors being equal, the local vendor shall be recommended to the Board of Trustees for approval.

Net Prices

In all cases, prices quoted are to be net including all applicable discounts. A separate price shall be offered for each item and not in combination with other items (unless the grouping of items is otherwise allowed as defined in the specifications). Unit price shall prevail in case of a conflict between unit and total price (extension); written price shall prevail in case of a conflict between written and enumerated pricing. Vendors are instructed to round off all unit pricing and extensions to the nearest whole cent; i.e., round the pricing to **two** places to the right of the decimal point only. The RGSD mainframe computer database is designed to accept only pricing which is stated in this manner. All items for which pricing is submitted which is other than two places to the right of the decimal shall be accepted; however, all digits beyond a whole cent (more than two places to the right of the decimal) shall be ignored in the bid analysis process and the unit price indicated on the purchase order shall be to the nearest whole cent for each item involved.

Freight

The Vendor agrees to deliver all items prepaid (F.O.B. DESTINATION), to an inside point or points of receipt within the District. If multiple delivery sites are required for items in the bid, either the total number of or the exact address of all

such sites shall be indicated in the specifications section of the bid document. All costs for delivery, drayage or freight, for the packing or unpacking, loading and unloading of said articles, are to be borne by the Vendor, and should be included in the unit price.

Taxes

Vendor pricing shall not include any taxes (unless specified), since RGSD is tax exempt there from. Federal Excise Tax Exemption Certificates shall be executed when required upon request by the Vendor.

Grouping of Items

As stated above, no grouping of items shall be allowed unless otherwise defined in the detailed specifications. Most items are to be offered for bid on an "individual" basis and shall be awarded accordingly. However, certain circumstances may arise in which it is to the advantage of RGSD to group items offered for bid. In certain instances, for the purpose of continuity and to insure product compatibility and design, and to minimize the freight costs involved, similar items may be grouped in the specifications and therefore shall constitute a single unit for bid purposes. All items in each such grouping shall be purchased from one Vendor. In order to be eligible for consideration for award of the bid for any group of items, a price quotation must be offered for ALL items in the grouping and a total price given for all items included in the grouping; award of the bid shall be made following careful analysis of the "lowest and best" bid offered for the entire group of items. Failure to offer a quotation for all items in a group may constitute a "No Bid" for the entire group of items.

Payment and Invoicing

Unless otherwise indicated in the detailed specifications of this bid document, it is mutually understood that RGSD shall make remittance in a **single lump sum** payment **following satisfactory delivery of all items** listed on the purchase order or following satisfactory performance (final inspection) of all services as specified in the contract. RGSD remits by "completed purchase order" only; remittance shall not be made upon receipt of partial shipments or performance, or the receipt of invoicing for same, but only after all items included on the purchase order or contained in the contract are delivered and/or satisfied. Payments are remitted once and/or twice per month after approval by the Board of Education.

Consequently, vendors agree to submit a single itemized invoice (original and duplicate) to RGSD, Business Office, 1370 Northumberland, St. Louis, Missouri, 63137, following the delivery of all items and/or services as indicated on the purchase order or contract. Multiple invoice documents (numbers) for the same purchase order or contract shall not be acceptable; following satisfactory delivery of ALL items and/or performance of ALL services indicated on the purchase order, only one invoice shall be submitted per purchase order or per contract, which shall be for all items and/or services contained on the order or in the contract. Following satisfactory invoicing as defined above and after receipt of all items on the purchase order and/or full performance of all services specified, payment shall be made in full to the Vendor within forty-five (45) calendar days from either the date of delivery or the receipt of satisfactory invoicing, as specified above, (in the Business Office), for the complete order or contract, whichever occurs last.

Delivery Instructions

Information containing product delivery instructions for each item specified, shall be so indicated in the specifications. The specifications shall indicate if delivery is to be made to one central location or to multiple locations within the school district. Vendor agrees to adhere to delivery date schedules, as requested in the specifications.

Default and Delays

Upon failure of the Vendor to deliver all of the items ordered or to render service, within the time set or allowed, the successful Vendor shall be considered in default, in which case RGSD reserves the right to terminate the purchase order or contract and to purchase similar supplies, services, or furniture and equipment, on the open market or secure the manufacture, delivery, and installation thereof by contract or otherwise. The Vendor shall be charged with any cost occasioned by RGSD whether said cost is the same as originally accepted or any excess cost.

Damage to School Property

Any damage or loss to RGSD property as a result of any action by the Vendor in the delivery, execution or performance of any item or service stated in these specifications, shall be repaired or replaced to the satisfaction of designated RGSD personnel, at the Vendor's cost, within a reasonable time.

Assemble and Set In Place

It shall be the Vendor's responsibility to furnish, deliver, unload from the delivery vehicle, completely assemble, and set in place and where specified to completely install and make ready for operation to the satisfaction of RGSD all items offered for bid in these specifications. All Vendor personnel shall be legally licensed and fully qualified in the performance of the various areas of installation expertise. Items requiring unpacking shall be unpacked, assembled and set in place by the successful Vendor, at Vendor expense, as directed by the designated representative of RGSD. Where specified, all items shall be furnished, delivered, set in place, and made ready for operation, by the Vendor at Vendor's expense.

Removal of Debris

Where applicable, Vendor owned materials and equipment may be stored on the job site but the contractor shall maintain full responsibility for the stored items and full responsibility for any acts of vandalism or damage to RGSD owned property as a result of the vandalism. Any materials of a flammable nature must be stored at least 50' from the nearest building. Vendor must maintain the premises free from accumulations of waste, debris and rubbish caused by the execution of the contract, as a result of this bid. Upon completion of all work, crates, boxes, and packing material shall be removed from the point of work or delivery by the Vendor, at Vendor expense, and the premises are to be left free of debris.

Complying With Specifications

All material furnished must be in conformity with the specifications and shall be subject to inspection and approval by RGSD following delivery. The right is reserved to reject and return at the risk and expense of the Vendor such portion or the entirety of any shipment which may be deemed defective or fail to comply with specifications. If rejected, it shall be held for disposition at the expense and risk of the Vendor. Vendors shall be required to replace that defective portion or the entire order according to specifications without additional cost to RGSD. Any items which may be lost or damaged in transit from the manufacturer to RGSD shall be replaced or restored to the original good condition by the Vendor at no cost to RGSD, to the satisfaction of RGSD.

If required in the detailed specifications, each Vendor and subcontractor(s), together, should visit the site and take such other steps as may be necessary to ascertain the nature and location of the work to be performed, and the general and local conditions which could affect the work or the cost thereof. All visits to the sites shall be made at the Vendor's expense.

Guarantee

Each Vendor, by presenting a bid under these specifications, binds himself to make positive that all goods are fully up to the standards set by the specifications. Should it be discovered within a reasonable period of time from the date of purchase order or contract that such goods or services are not up to standard, RGSD shall have the right to have such goods or services replaced by others conforming to the standard requirements and the entire expense be borne by the Vendor. The Vendor shall agree to guarantee and warrant all equipment provided as a result of this bid for a period equal to the stated guaranty/warranty in the specifications. All such warranties shall provide the coverage as indicated in the specifications.

Samples

RGSD reserves the right to request of any Vendor offering a product for sale via this bid an exact sample for evaluation for any product proposed. Vendor agrees to submit requested sample(s) within ten (10) calendar days from notification of the sample request. Should the Vendor not adhere to this sampling procedure, the item(s) in question may be rejected on these grounds. Samples must be furnished upon request only, free of expense to RGSD and if not destroyed by tests, shall be returned at the Vendor's expense upon request. Samples are to be submitted to the Business Office to the attention of the Chief Financial Officer, 1370 Northumberland, and St. Louis, Missouri, 63137. Samples are to represent exactly what the Vendor actually proposes to furnish. Samples shall be properly identified as to bid number, bid date, name of Vendor, and item number as it appears on the bid. Once the bid is awarded, RGSD reserves the right to subject actual shipment samples to randomized testing. In cases when a sample is sent to testing laboratory for analysis in light of specifications, and the tests results indicate that the sample does not comply with specifications, the cost of the test shall be charged to the Vendor submitting the failing sample. The right is reserved to keep the successful Vendor's sample for comparison with actual shipment. Said sample may be returned to the Vendor or accepted as delivery according to order.

Compliance with Laws

If required due to the nature of the specifications contained herein, the Vendor shall give all notices, pay all fees, and comply with all local city, state, and federal laws, codes, ordinances, rules and regulations bearing on the successful conclusion of an order for supplies, services, or equipment. Vendor is to secure and pay for all permits, governmental fees, licenses and assessments necessary to perform all work as outlined in the specifications. The Vendor shall comply with all fire, safety and security regulations.

Insurance

It shall be the responsibility of the Vendor, once awarded the contract, to procure and maintain at Vendor expense, any insurance coverage equal in coverage to the minimum requirements applicable to the nature and scope of the project as set forth in these specifications. Vendor shall insure the delivery of all products delivered as a result of this bid until such time as all products are received by RGSD, inspected and approved.

Liability and Relationship of Parties

The Vendor shall, and hereby does, indemnify and hold harmless RGSD from any and all claims, suits, actions, judgments, settlements, damages, awards, costs and expenses of any kind or nature whatsoever arising from or out of

any assertion or complaint by a third party or parties of any injury or damage resulting from the performance of this agreement by Vendor. Without limiting the generality of the foregoing sentence, as relates to this bid document and any succeeding document(s) as a result of this formal bid, the Vendor (which shall include the vendor of award, the product manufacturer whom the Vendor represents, any subcontractor(s) of either, or any other party acting as an agent of the Vendor or manufacturer) shall hold RGSD, its officers, agents, servants, and employees harmless from liability of any nature or kind whatsoever against the publisher or author, manufacturer or agent for the use by RGSD of any copyrighted or copyrighted composition, secret process, patented or unpatented invention, article, environment-sensitive material, or appliance furnished or used under this bid proposal.

Any architects, consulting engineers, or other defined agents acting in behalf of RGSD with regard to this formal bid, shall be deemed to be extensions of RGSD and therefore all terms and conditions in this bid document shall equally apply to said third parties just as they do to RGSD. Neither this bid nor any succeeding document(s) as a result of this formal bid, shall constitute nor create a partnership or joint venture between RGSD (or any agent acting in behalf of RGSD) and the Vendor, nor does it create a business relationship between the parties other than that specifically provided for by the terms of this agreement.

Non-Mentioned Items

Any standard manufacturer's parts, components, other equipment or related accessories not specifically mentioned by name or included in these specifications but which are normally a part of the equipment and furnishings necessary to complete the installation or insure the performance of the item, which are normally advertised and sold as a part of the "total product", shall be deemed to be included in the bid and shall therefore be furnished by the Vendor under the framework of this bid, at no additional cost to RGSD.

RGSD Responsibilities

With regard to installation as per these specifications, it shall be the responsibility of RGSD to provide all electrical, gas and water services (stub outs) to the products as required and in compliance with the manufacturer's product specifications. Floor drains shall be provided by RGSD. However, any and all product connections required to interface the product with electrical, gas, water and drain facilities, whether indicated on attached project plans, drawings and specifications, including all addenda issued pursuant to this bid, shall be solely the responsibility of the Vendor. RGSD shall allow Vendor access to any facilities involved in these specifications during normal business hours in compliance with RGSD's approved schedule. Upon written request from a Vendor, RGSD may consider special work hours if required to complete a delivery or a project with an impending deadline. Likewise, if applicable, upon written request from the Vendor, RGSD shall allow Vendor access to any project plans, blueprints or other detailed specifications which may not be included within this bid document, but which could reasonably be expected to have a bearing on the bid proposal. All such written requests shall be forwarded to the Business Office to the attention of the Chief Financial Officer.

Product Colors, Finishes and Color Combinations

Where applicable and indicated in the specifications, color selection of all product finishes and furnishings which have been pre-selected by RGSD, shall be adhered to as closely as possible by the Vendor. There are situations in which it is very important to RGSD that all of the products included in the bid or various sections of the bid, be color coordinated in order that a pleasing decorative atmosphere conducive to instruction be established. It shall be the responsibility of the Vendor to submit as a part of the bid, where required in the specifications, proposed manufacturer's color samples for all items offered for which a specific color is indicated. Failure to do so may result in rejection of any and all items involved in that section.

Adjustments in the Quantities to Be Purchased

All quantities indicated in this bid are projected based on an established need and are stated in "good faith" by RGSD and represent the known quantities which shall be purchased via this bid; however, in order to insure budgetary compliance, a situation may arise in which the quantities indicated for one or more items listed for bid may have to be amended.

Deletions - All quantities listed in these specifications are subject to adjustment; RGSD shall reserve the right to delete any and all items entirely and/or to reduce quantities in number prior to issuing a purchase order at the unit price(s) quoted in the Vendor's bid.

Additions - If an "additions" clause is to be implemented with reference to the quantities to be purchased as a result of this bid, it will appear in the detailed specifications section of this document. If there is no reference to the purchase of additional quantities the quantities to be purchased shall be as published herein.

Follow-Up Services

The Vendor shall agree to provide to RGSD as part of this bid, at no additional cost, all required user orientation as to the proper use and care for all equipment sold as a result of this bid.

Ambiguities

Should questions arise or ambiguities exist regarding any part of parts of the specifications as published, the Vendor shall notify the Chief Financial Officer, (314) 869-2505, at least five (5) calendar days prior to the published bid opening date, in order that a written clarification (addendum) from the Business Office can be made known to all Vendors participating in the bid. No addendum concerning clarification of published specifications shall be issued following five (5) calendar days prior to the published bid opening date, unless it is to extend the bid opening date. Interpretation of and subsequent modifications to these specifications shall be made by addenda only; RGSD shall not be responsible for any interpretation of the documents other than as set forth in these specifications or in RGSD authorized written and published addenda. Should ambiguities exist between this section of the bid (Instructions and Conditions), and the stated specifications which follow, the specifications shall prevail and shall be taken to be the correct interpretation for this bid.

Exceptions to These Instructions and Conditions and/or Specifications

The Vendor, when through a voluntary and independent action, places the signature on the proposal form, fully agrees to accept and comply with all instructions and conditions and all other requirements defined in the detailed specifications and outlined in all other documents pertaining to the bid document. Should any Vendor take exception with any part(s) of these instructions and conditions, or any part(s) of the specifications which follow, it is the responsibility of the Vendor to so acknowledge such differences in detail on a separate sheet(s), and attach and submit said sheet(s) with the bid; all such exceptions shall become a part of this bid.

BID PROPOSAL FORM

RFP 251

Roof Repair for Lemasters Elementary School

The undersigned proposes to furnish and deliver the above goods/services pursuant to the bid specification and made part hereof:

Amount in words (Total for all areas)

\$ _____
Amount in numbers (Total for all areas)

Company Name

Federal I.D. # or Social Security #

Address

Signature of Authorized Agent

Type or Print Name

Title: _____

Telephone Number

Date

Fax Number

E-mail address

DOCUMENTATION OF SURETY

A performance bond will be required from the successful contractor on this project, and consequently, all bidders shall submit, with their bid, a Bid Bond or Certified Check made payable to the school district, in the amount of 5% of the Base Bid shall accompany the Bid Package on January 5, 2021 at 1:00 p.m., as a guarantee that the bidder, if awarded the Contract, will furnish a 100% Performance and Payment Bond; execute the Contract; and proceed with the work. Upon failure to do so, he shall forfeit the deposit or amount of the Bid Bond as liquidated damages, and no mistakes or errors on the part of the Bidder shall excuse the Bidder or entitle him to a return of the deposit or Bid Bond.

The bonds must be written by a Corporate Surety Company that is acceptable to the District and that meets the following minimum standards

- Licensed pursuant to the Missouri Insurance Code
- Listed on the United States Department of the Treasury's Listing of Approved Sureties (Dept. Circular 570) in the amount of \$5,000,000.
- The Bid Bond shall be valid for one hundred twenty (120) days following the deadline for submission of proposals.
- The Bid Bond must be accompanied by an original signed and notarized Power of-Attorney bearing the seal of the issuing surety company and reflecting that the signatory to the bond is a designated Attorney-in-Fact.
- All bonds must be written by an insurance company that is rated in the A.M. Best key Rating Guide – Property & Casualty with a policy holder's rating of "A-" or better and a Financial size category of Class VII or larger.

Prevailing Wage Statement

**Must be returned with RFP Response and be included as component of response

All services offered in response to this solicitation shall be performed by employees receiving the prevailing wage rate and working under conditions prevalent in the locality where the contract is to be performed. Any respondent whose employees receive less than such prevailing wage rate, or work under less favorable conditions than those prevalent in the locality, shall not be considered to be a responsive bidder.

By affixing an authorized signature below, the vendor certifies compliance with the above prevailing wage requirements. Failure to sign this provision may result in your offer being considered non-responsive to this solicitation.

Signed: _____
Authorized Signature

Printed Name

Vendor Name

Date: _____

Scope of Services



SECTION 070150.74 - REHABILITATION OF SINGLE PLY ROOFING

PART 1 - GENERAL

1.1 SUMMARY

A. This Section includes the following:

1. Provide all transportation, material, apparatus, tools, and labor to perform a full roof restoration on the roof system at Lemasters Elementary School, Sections 1 and 2.
2. Remove areas determined to contain wet insulation.
3. Remove areas that have expanded insulation (areas will be marked prior to pre-bid meeting)
4. Match insulation thickness with new insulation.
5. Install new 45 mil EPDM roof membrane in these locations and tie into existing membrane.
 - a. Overlap by a minimum of 6 inches in all directions.
 - b. Clean existing membrane with splice wash and install 6-inch peel and stick to the outside of the tie-in locations.
 - c. Allow repair locations to cure approximately 1 week prior to installing the fluid applied system on the new roofing material.
6. Prepare roof surface by pressure washing entire roof area.
7. Prime entire substrate with manufacturers recommended primer.

8. Install fluid applied base coat at 3 gallons per 100 sqft. Fully embed polyester reinforcement into entire surface. (Fiberglass reinforcement also acceptable).
9. Install fluid applied top-coat to entire roof surface at a rate of approximately 2 gallons per 100 square feet.
10. Install walkways with fluid applied top-coat (color TBD) at a rate of 1.5 gallons per 100 square feet. (ensure walkways are masked off to ensure uniform appearance)
11. Broadcast granules into top-coat at walkways to ensure slip resistance walking surface.
12. Walkways to be installed to and around all serviceable equipment.

B. Related Requirements:

1. Division 00 Document "Available Information," including the following pre-construction test report attachments.
 - a. Roof moisture survey report.
2. Construction drawings for existing roofing system annotated with locations requiring removal of wet insulation, repair of ponding areas, and replacement of damaged or deteriorated roofing.

C. Allowances: Refer to Division 01 Section "Allowances" for description of Work in this Section affected by allowances.

D. Unit Prices: Refer to Division 01 Section "Unit Prices" for description of Work in this Section affected by unit prices.

E. Alternates: Refer to Division 01 Section "Alternates" for description of Work in this Section affected by alternates.

1.2 ROOFING CONFERENCES

A. Roofing Rehabilitation Preinstallation Conference: Conduct conference at Project site to review methods and procedures related to roofing system.

1. Meet with Owner; roofing coating materials manufacturer's representative; roofing rehabilitation Installer including project manager and foreman; and installers whose work interfaces with or affects rehabilitation including installers of roof accessories and roof-mounted equipment requiring removal and replacement as part of the Work.
2. Review temporary protection requirements for existing roofing system that is to remain uncoated, during and after installation.
3. Review methods and procedures related to re-coating preparation, including coating manufacturer's written instructions.
4. Review roof drainage during each stage of coating and review roof drain plugging and plug removal procedures.
5. Review and finalize construction schedule, and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
6. Review base flashings, special roofing details, drainage, penetrations, equipment curbs, and condition of other construction that will affect coating.
7. Review HVAC shutdown and sealing of air intakes.
8. Review shutdown of fire-suppression, -protection, and -alarm and -detection systems.

9. Review procedures for asbestos removal or unexpected discovery of asbestos-containing materials.
10. Review governing regulations and requirements for insurance and certificates if applicable.
11. Review existing conditions that may require notification of Owner before proceeding.

1.3 MATERIALS OWNERSHIP

- A. Demolished materials shall become Contractor's property and shall be removed from Project site.

1.4 DEFINITIONS

- A. Roofing Terminology: Refer to ASTM D 1079 "Standard Terminology Relating to Roofing and Waterproofing" and glossary in NRCA's "The NRCA Roofing Manual: Membrane Roof Systems" for definition of terms related to roofing work in this Section.
- B. Roofing Coating Preparation: Existing roofing that is to remain and be prepared to accept restorative coating application.
- C. Patching: Removal of a portion of existing membrane roofing system from deck or removal of selected components and accessories from existing membrane roofing system and replacement with similar materials.
- D. Remove: Detach items from existing construction and legally dispose of them off-site unless indicated to be removed and reinstalled.
- E. Existing to Remain: Existing items of construction that are not indicated to be removed.

1.5 ACTION SUBMITTALS

- A. Product Data: For each type of product specified.

1.6 INFORMATIONAL SUBMITTALS

- A. Contractor's Product Certificate: Submit notarized certificate, indicating products intended for Work of this Section, including product names and numbers and manufacturers' names, with statement indicating that products to be provided meet the requirements of the Contract Documents.
- B. Product Test Reports: Based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified testing agency, for components of roofing rehabilitation system.
- C. Qualification Data: For Installer, Manufacturer, and Roofing Inspector.
 1. Letter written for this Project indicating manufacturer approval of Installer to apply specified products and provide specified warranty.
- D. Warranties: Unexecuted sample copies of special warranties.
- E. Photographs or Video Recordings: Show existing conditions of adjoining construction and site improvements, including exterior and interior finish surfaces, which might be misconstrued as having been damaged by rehabilitation operations. Submit before Work begins.

- F. Proposed Protection Measures: Submit report, including Drawings, that indicates the measures proposed for protecting individuals and property, for environmental protection, and for dust control. Indicate proposed locations and construction of barriers.
- G. Inspection Reports: Reports of Roofing Inspector. Include weather conditions, description of work performed, tests performed, defective work observed, and corrective actions required and carried out.
 - 1. Submit report within 48 hours after inspection.

1.7 CLOSEOUT SUBMITTALS

- A. Maintenance Data: To include in maintenance manuals.
- B. Warranties: Executed copies of approved warranty forms.

1.8 QUALITY ASSURANCE

- A. Installer Qualifications: An employer of workers trained and certified by manufacturer, including a full-time on-site supervisor with a minimum of three years' experience installing products similar to those specified, able to communicate verbally with Contractor, Architect, and employees, and the following:
 - 1. Qualified by the manufacturer to install manufacturer's product and furnish warranty of type specified.
- B. Manufacturer Qualifications: Approved manufacturer listed in this Section, with minimum five years' experience in manufacture of specified products in successful use in similar applications.
 - 1. Approval of Other Manufacturers and Comparable Products: Submit the following in accordance with project substitution requirements, within time allowed for substitution review:
 - a. Product data, including certified independent test data indicating compliance with requirements.
 - b. Samples of each component.
 - c. Sample submittal from similar project.
 - d. Project references: Minimum of five installations of specified products not less than five years old, with Owner contact information.
 - e. Sample warranty.
- C. Roofing Inspector Qualifications: A technical representative 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. The Roofing Inspector shall be one of the following:
 - 1. An authorized full-time technical employee of the manufacturer.

2. An independent party certified as a Registered Roof Observer by the International Institute of Building Enclosure Consultants (formerly the Roof Consultants Institute) retained by the Contractor or the Manufacturer and approved by the Manufacturer.

1.9 FIELD CONDITIONS

- A. Weather Limitations: Proceed with rehabilitation work only when existing and forecasted weather conditions permit Work to proceed without water entering into existing roofing system or building.
 1. Store all materials prior to application at temperatures recommended by manufacturer.
 2. Apply coatings within range of ambient and substrate temperatures recommended by manufacturer.
 3. Do not apply roofing in snow, rain, fog, or mist.
- B. Protect building to be rehabilitated, adjacent buildings, walkways, site improvements, exterior plantings, and landscaping from damage or soiling from rehabilitation operations.
- C. Maintain access to existing walkways, corridors, and other adjacent occupied or used facilities.
- D. 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.
- E. Owner will occupy portions of building immediately below re-coating area. Conduct re-coating so Owner's operations will not be disrupted. Provide Owner with not less than 72 hours' notice of activities that may affect Owner's operations.

1.10 WARRANTY

- A. Manufacturer's Warranty: Roof System Manufacturer's standard form in which Manufacturer agrees to repair or replace components of roofing system that fail in materials or workmanship within warranty period, as follows.
 1. Form of Warranty: Manufacturer's standard warranty form.
 2. Scope of Warranty: Work of this Section and including sheet metal details and termination details installed by the roof system Installer and approved by the Roof System Manufacturer.
 3. Warranty Period: 20 years from date of completion.
- B. Manufacturer Inspection Services: 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 is included in the Contract Sum.
 1. Inspections to occur in following years: 2, 5, 10, 15 following completion.
- C. Installer Warranty: Installer's warranty signed by Installer, as follows.
 1. Form of Warranty: Form acceptable to Roofing Manufacturer and Owner.
 2. Scope of Warranty: Work of this Section.

3. Warranty Period: 2 years from date of completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Basis of Design: The roof system specified in this Section is based upon products of Tremco, Inc., Beachwood, OH, (800) 562-2728, www.tremcoroofing.com that are named in other Part 2 articles. Provide specified products or comparable products of one of the following.
 1. Manufacturers of comparable products: Approved by Owner prior to bid.

2.2 PERFORMANCE REQUIREMENTS

- A. General Performance: Rehabilitated roofing shall withstand exposure to weather without failure or leaks due to defective manufacture or installation.
 1. Accelerated Weathering: Roofing system shall withstand 5000 hours of exposure when tested according to ASTM G 152, ASTM G 154, or ASTM G 155.
- B. Material Compatibility: Provide roofing materials that are compatible with one another under conditions of service and application required, as demonstrated by roofing manufacturer based on testing and field experience.
- C. Exterior Fire-Test Exposure: Roofing system exterior fire-test exposure performance following application of rehabilitation coating shall be not be less than that of the prerehabilitated roof performance when tested in accordance with ASTM E 108, based upon manufacturer's tests of identical applications.
- D. Energy Performance: Provide rehabilitated roof meeting initial solar reflectance of 75 when calculated according to ASTM E 1980.
- E. Energy Performance: Provide rehabilitated roofing according to the following when tested according to CRRC-1:
 1. Three-year, aged solar reflectance of not less than 0.55 and emissivity of not less than 0.75.

2.3 MATERIALS, GENERAL

- A. General: Rehabilitation materials recommended by roofing system manufacturer for intended use and compatible with components of existing membrane roofing system.
- B. Infill Materials: Where required to replace test cores and to patch existing roofing, use infill materials matching existing membrane roofing system materials, unless otherwise indicated.
- C. Temporary Roof Drainage: Design and selection of materials for temporary roof drainage are responsibilities of the Contractor.

2.4 FLUID-APPLIED ROOFING MEMBRANE COATING

- A. Polyurethane Elastomeric Fluid-Applied System: Two-coat fluid-applied roofing membrane formulated for application over prepared existing roofing substrate.
 1. Polyurethane Roof Coating System Base Coat: 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: Maintains combustion characteristics of existing roof system.
 - c. Volatile Organic Compounds (VOC), maximum, ASTM D3960: 1 g/L.
 - d. Accelerated Weathering, 5000 hours, ASTM G154: Pass.
 - e. Hardness, Shore A, minimum, ASTM D2240: 80.
 - f. Solids, by volume, ASTM D2697: 100 percent.
 - g. Minimum Thickness, Base Coat reinforced over Smooth BUR, MB, Concrete, Single-Ply: 48 mils (1.22 mm) wet.
2. Polyurethane roof coating system top coat, 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, UL790: Maintains combustion characteristics of existing roof system.
 - c. Volatile Organic Compounds (VOC), maximum, ASTM D3960: 6 g/L.
 - d. Solar Reflectance Index (SRI), ASTM E1980: For white, not less than 103.
 - e. Accelerated Weathering, 5000 hours, ASTM G 154: Pass.
 - f. Hardness, Shore A, minimum, ASTM D2240: 81.
 - g. Solids, by volume, ASTM D2697: 100 percent.
 - h. Minimum Thickness, reinforced system: 32 mils (0.81 mm) wet.
 - i. Minimum Thickness, Slip-Resistant Coat: 24 mils (0.60 mm) wet.
 - j. Color: White.

B. Primers:

1. Primer for Asphaltic and Single-Ply Membranes: Water-based, polymer-modified quick-dry low odor primer.
 - a. Basis of design product: Tremco, AlphaGuard WB Primer.
 - b. Volatile Organic Compounds (VOC), maximum, ASTM D3960: 1 g/L.
 - c. Solids, by weight: 70 percent.
2. Primer for Non-Porous Surfaces: Single-part, water based primer to promote adhesion of urethanes to metals, PVC and other non-porous surfaces.
 - a. Basis of design product: Tremco, AlphaGuard M-Prime.

- b. Volatile Organic Compounds (VOC), maximum, ASTM D3960: 22 g/L.
 - c. Nonvolatile Content, minimum, ASTM D2369: 5 percent.
 - d. Density at 77 deg F (25 deg C): 8.3 lb/gal (1kg/L).
3. Primer for Intercoat and Substrate Adhesion: Single-part, quick-drying primer to promote adhesion of urethane products to previous urethane coats and to other approved surfaces.
- a. Basis of design product: Tremco, Geogard Primer.
 - b. Volatile Organic Compounds (VOC), maximum, ASTM D3960: 5 g/L.
 - c. Coverage Rate, 400 sq. ft/ gal.: 4 mils (0.10 mm) wet.
- C. Fluid-Applied Roofing Reinforcing Fabric:
- 1. Polyester Reinforcing and Protection Fabric: 100 percent stitch-bonded mildew-resistant polyester fabric intended for reinforcement of compatible fluid-applied membranes and flashings and as a protection layer under pavers or stone aggregates.
 - a. Basis of design product: Tremco, Permafab.
 - b. Tensile Strength, Minimum, ASTM D1682: 50 lbf (23 kg) avg..
 - c. Elongation, Minimum, ASTM D1682: 60 percent.
 - d. Tear Strength, Minimum, ASTM D1117: 16 lbf (7.3 kg) avg..
 - e. Weight: 3 oz./sq. yd (102 g/sq. m).

2.5 AUXILIARY ROOFING REHABILITATION MATERIALS

- A. General: Auxiliary materials recommended by roofing system manufacturer for intended use and compatible with existing roofing system and roofing coating system.
- B. Seam Sealer: Waterproof seam and patching material compatible with applied coating.
 - 1. Seam Sealer: Aromatic polyurethane sealer, single-component, high solids, moisture curing, formulated for compatibility and use with a variety of roofing and flashing substrates.
 - a. Basis of design product: Tremco, GEOGARD Seam Sealer.
 - b. Volatile Organic Compounds (VOC), maximum, ASTM D3960: 189 g/L.
 - c. Tensile Strength, ASTM D412: 270 psi (1860 kPa).
 - d. Tear Strength, ASTM D412: 35 pli (6.13 kNm).
 - e. Elongation, ASTM D412: 220 percent.
 - f. Color: Gray.
- C. Seam and Detail Reinforcing Fabric:

1. Polyester Reinforcing and Protection Fabric: 100 percent stitch-bonded mildew-resistant polyester fabric intended for reinforcement of compatible fluid-applied membranes and flashings and as a protection layer under pavers or stone aggregates.
 - a. Basis of design product: Tremco, Permafab.
 - b. Tensile Strength, Minimum, ASTM D1682: 50 lbf (23 kg) avg..
 - c. Elongation, Minimum, ASTM D1682: 60 percent.
 - d. Tear Strength, Minimum, ASTM D1117: 16 lbf (7.3 kg) avg..
 - e. Weight: 3 oz./sq. yd (102 g/sq. m).
- D. Joint Sealant: Elastomeric joint sealant compatible with applied coating, with movement capability appropriate for application.
 1. Joint Sealant, Polyurethane: ASTM C920, Type S, Grade NS, Class 50 single-component moisture curing sealant, formulated for compatibility and use in dynamic and static joints; paintable.
 - a. Basis of design product: Tremco, TremSEAL Pro.
 - b. Volatile Organic Compounds (VOC), maximum, ASTM D3960: 40 g/L.
 - c. Hardness, Shore A, ASTM C661: 40.
 - d. Adhesion to Concrete, ASTM C794: 35 pli.
 - e. Tensile Strength, ASTM D412: 350 psi (2410 kPa).
 - f. Color: Closest match to substrate.
- E. Miscellaneous Accessories: Provide miscellaneous accessories recommended by roofing system manufacturer.

2.6 WALKWAYS

- A. Slip Resistant Product for Fluid-Applied Walkways:
 1. Polyurethane Top Coat, Slip-Resistant: Second top coat with broadcast slip-resistant aggregate.
 - a. Basis of design product: Tremco, AlphaGuard MT Top Coat Slip-Resistant.
 - b. Minimum Thickness: 20 wet mils, (0.50 mm) wet; over cured top coat.
 - c. Silica sand aggregate: 20 to 30 lb/100 sq. ft.
 - d. Color: As selected from manufacturer's standard colors.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine existing roofing substrates, with Installer present, for compliance with requirements and for other conditions affecting application and performance of roof coatings
 - 1. For the record, prepare written report, endorsed by Installer, listing conditions detrimental to performance.
 - 2. Verify compatibility with and suitability of substrates.
 - 3. Verify that substrates are visibly dry and free of moisture.
 - 4. Verify that roofing membrane surfaces have adequately aged to enable proper bond with base coat.
 - 5. Verify that roofing membrane is free of blisters, splits, open laps, indications of shrinkage, and puncture damage or other indications of impending roof system failure.
 - 6. Commencing application of coatings indicates acceptance of surfaces and conditions.

3.2 PREPARATION

- A. Protect existing roofing system that is indicated not to be rehabilitated, and adjacent portions of building and building equipment.
 - 1. Mask surfaces to be protected. Seal joints subject to infiltration by coating materials.
 - 2. Limit traffic and material storage to areas of existing roofing membrane that have been protected.
 - 3. Maintain temporary protection and leave in place until replacement roofing has been completed.
- B. Maintain roof drains in functioning condition to ensure roof drainage at end of each workday. Prevent debris from entering or blocking roof drains and conductors. Use roof-drain plugs specifically designed for this purpose. Remove roof-drain plugs at end of each workday, when no work is taking place, or when rain is forecast.
 - 1. Do not permit water to enter into or under existing membrane roofing system components that are to remain.

3.3 ROOFING COATING PREPARATION

- A. Removal of Wet Insulation: Remove portions of roofing membrane with underlying wet insulation. Remove wet insulation, fill in tear-off areas to match existing insulation and membrane, and prepare patched membrane for application of roof coating as specified below.
- B. Repair of Ponding Areas: Repair areas indicated as ponding areas or areas of inadequate drainage by removing roof membrane, adding additional insulation as required to provide minimum slopes to drain required by roofing rehabilitation coating manufacturer, and replace membrane with material matching existing. Submit photographic report indicating compliance.
- C. Membrane Surface Preparation:

1. Remove walkway pads and pavers from roofing membrane. Discard damaged pavers.
 2. Remove blisters, ridges, buckles, roofing membrane fastener buttons projecting above the membrane, and other substrate irregularities from existing roofing membrane that would inhibit application of uniform, waterproof coating.
 3. Broom clean existing substrate.
 4. Substrate Cleaning: Clean substrate of contaminants such as dirt, debris, oil, and grease that can affect adhesion of coating by power washing at maximum 2,000 psi.
 - a. Dispose of waste water in accordance with requirements of authorities having jurisdiction.
 5. Verify adhesion of new products.
- D. Existing Flashing and Detail Preparation: Repair flashings, gravel stops, copings, and other roof-related sheet metal and trim elements. Reseal joints, replace loose or missing fasteners, and replace components where required to leave in a watertight condition.
1. Do not damage metal counterflashings that are to remain. Replace metal counterflashings damaged during removal with counterflashings of same metal, weight or thickness, and finish.
 2. Roof Drains: Remove drain strainer and clamping ring. Grind metal surfaces down to clean, bare, metal.
- E. Surface Priming: Prime surfaces to receive fluid-applied coating using coating manufacturer's recommended product for surface material. Apply at application rate recommended by manufacturer.
1. Ensure primer does not puddle and substrate has complete coverage.
 2. Allow to cure completely prior to application of coating.

3.4 FLUID-APPLIED FLASHING APPLICATION

- A. Fluid-Applied Flashing and Detail Base Coat Application: Complete base coat and fabric reinforcement at parapets, curbs, penetrations, and drains prior to application of field of fluid-applied membrane. Apply base coat in accordance with manufacturer's written instructions.
1. Apply base coat on prepared and primed surfaces and spread coating evenly. Extend coating minimum of 8 inches up vertical surfaces and 4 inches onto horizontal surfaces.
 2. Back roll to achieve minimum coating thickness indicated on Part 2 product listing, unless greater thickness is recommended by manufacturer; verify thickness of base coat as work progresses.
 3. Reinforcing Fabric: Embed fabric reinforcement into wet base coat. Lap adjacent flashing pieces of fabric minimum 3 inches along edges and 6 inches at end laps.
 - a. Roll surface of fabric reinforcing to completely embed and saturate fabric. Leave finished base coat with fabric free of pin holes, voids, or openings.
 4. Roof Drains: Install base coat onto surrounding membrane surface and metal drain bowl flange. Install target piece of fabric reinforcement immediately into wet base coat and roll

to fully embed and saturate fabric. Reinstall clamping ring and strainer following application of top coat. Replace broken drain ring clamping bolts.

3.5 FLUID-APPLIED MEMBRANE APPLICATION

- A. Fluid-Applied Membrane Base Coat: Apply base coat to field of membrane in accordance with manufacturer's written instructions.
1. Apply base coat on prepared and primed surfaces and spread coating evenly.
 2. Back roll to achieve minimum coating thickness indicated on Part 2 product listing, unless greater thickness is recommended by manufacturer; verify thickness of base coat as work progresses.
 3. Fabric Reinforcement: Embed fabric reinforcement into wet base coat. Lap adjacent pieces of fabric minimum 3 inches (75 mm) along edges and 6 inches (150 mm) at end laps.
 - a. Roll surface of fabric reinforcing to completely embed and saturate fabric. Leave finished base coat with fabric free of pin holes, voids, or openings.
- B. Fluid-Applied Membrane Top Coat: Apply top coat to field of membrane and flashings uniformly in a complete, continuous installation.
1. Allow base coat to cure prior to application of top coat.
 2. Following curing of base coat and prior to application of top coat, sand raised or exposed edges of fabric reinforcement.
 3. Prime base coat prior to application of top coat if top coat is not applied within 72 hours of the base coat application, using manufacturer's recommended primer.
 4. Apply top coat extending coating up vertical surfaces and out onto horizontal surfaces. Install top coat over field base coat and spread coating evenly.
 5. Back roll to achieve minimum coating thickness indicated on Part 2 product listing, unless greater thickness is recommended by manufacturer; verify thickness of base coat as work progresses.
 6. Avoid foot traffic on new fluid-applied membrane for a minimum of 24 hours.

3.6 WALKWAY INSTALLATION

- A. Install walkways following application of coating. Locate as indicated, or as directed by Owner.
- B. Slip-Resistant Walkway Topcoat: Apply walkway second topcoat following application and curing of top coat. Locate as indicated on Drawings.
1. Mask walkway location with tape.
 2. Prime first top coat prior to application of walkway top coat if walkway top coat is not applied within 72 hours of the first top coat application, using manufacturer's recommended primer.
 3. Apply walkway topcoat and back roll to achieve minimum coating thickness indicated on Part 2 product listing, unless greater thickness is recommended by manufacturer; verify thickness of base coat as work progresses.

4. Broadcast Slip-Resistant Top Coat Aggregate in wet top coat at rate indicated in Part 2 product listing or as otherwise recommended by coating manufacturer.
 - a. Back roll aggregate and top coat creating even dispersal of aggregate. Remove masking immediately.

3.7 FIELD QUALITY CONTROL

- A. Roofing Inspector: Owner will engage a qualified roofing inspector to perform roof tests and inspections and to prepare test reports.
- B. Roofing Inspector: Contractor shall engage a qualified roofing inspector for a minimum of 2 full-time days on site, per 40-hour crew week, to perform roof tests and inspections and to prepare start up, interim, and final reports. Roofing Inspector's quality assurance inspections shall comply with criteria established in Quality Control and Quality-assurance Guidelines for the Application of Membrane Roof Systems."
- C. Roof Inspection: Contractor shall engage roofing system manufacturer's technical personnel to inspect roofing installation, and submit report. Notify Owner 48 hours in advance of dates and times of inspections. Inspect work as follows:
 1. Upon completion of preparation of first component of work, prior to application of re-coating materials.
 2. Following application of re-coating to flashings and application of base coat to field of roof.
 3. Upon completion of re-coating but prior to re-installation of other roofing components.
- D. Repair fluid-applied membrane where test inspections indicate that they do not comply with specified requirements.
- E. Arrange for additional inspections, at Contractor's expense, to verify compliance of replaced or additional work with specified requirements.

3.8 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.

END OF SECTION 070150.74