

Richmond Community Schools

REQUEST FOR PROPOSALS (RFP)

CAULKING

The Board of Education of Richmond Community Schools (the "School District") is accepting firm, sealed Proposals for **CAULKING** at Richmond High School. A complete package of the Project RFP may be found on the District's website, www.richmond.k12.mi.us, under the Bid Info tab.

Proposal **MUST** be submitted in a sealed envelope (box) and clearly marked, "**2022 HIGH SCHOOL CAULKING**". The School District requests two (2) original, signed proposals.

All proposals must be delivered no later than **11:00 AM EST, MONDAY, FEBRUARY 14, 2022** (the "Due Date") to:

Richmond Community Schools
Board of Education and Administrative Offices
C/O Tammie Schadd, Director of Business & Management Services
35276 Division
Richmond, MI 48062

All Proposals will be publicly opened immediately thereafter. Proposals received after the Due Date will not be considered or accepted. Facsimile, oral, and other electronic proposals are not acceptable.

Appointments for a **PRE-PROPOSAL MEETING/FACILITY WALK-THROUGH** may be scheduled by contacting Jim Starnes, AUCH Construction, at jstarnes@auchconstruction.com or by calling 586-405-2539.

Please see Appendix A of this RFP for a project summary and specifications, and following Appendix A, see a map of the areas of Richmond High School to be addressed by the 2022 High School Caulking bid.

All Proposers submitting Proposals must provide a sworn and notarized statement disclosing any familial relationship that exists between the owner or key employee of the Proposer submitting a Proposal and any member of the Richmond Community School District Board of Education and the Richmond Community School District Superintendent. Any Proposal that does not include this sworn and notarized disclosure statement will not be accepted.

All Proposers submitting Proposals must provide a sworn and notarized statement disclosing compliance with the Iran Economic Sanctions Act. Any Proposal that does not include this sworn and notarized disclosure statement will not be accepted.

The School District reserves the right, in its sole and absolute discretion (for this provision and all other provisions contained in this RFP), to accept or reject, in whole or in part, any or all Proposals with or without cause. The School District further reserves the right to waive any irregularity or informality in the RFP process or any Proposal, and the right to award the Contract to other than the Proposer submitting the best financial Proposal (low bidder). The School District reserves the right to request additional information from any or all Proposers. The School District reserves the right to negotiate with the Proposers concerning their Proposals.

The date and time for receipt of Proposals is:

11:00 AM EST, MONDAY, FEBRUARY 14, 2022 (the "Due Date")

PROPOSAL ENVELOPE: An opaque envelope containing your Proposal must be marked in the lower left-hand corner as follows:

**SEALED PROPOSAL ENCLOSED
2022 HIGH SCHOOL CAULKING BID
[Proposer's Name]
[Proposer's Address]
[Proposer's Telephone Number]**

The envelope must also be addressed and delivered as follows:

**RICHMOND COMMUNITY SCHOOLS
BOARD OF EDUCATION AND ADMINISTRATIVE OFFICES
C/O TAMMIE SCHADD, DIRECTOR OF BUSINESS & MANAGEMENT SERVICES
35276 DIVISION
RICHMOND, MI 48062**

LATE PROPOSALS: Each Proposer is responsible for submission of its Proposal. Proposals or Proposal revisions received after the due date will not be accepted or considered. The School Districts shall not be liable to Proposer for any delivery or postal delays.

RETURNED PROPOSALS: All Proposals received after the Due Date will be returned to the Proposer unopened.

SIGNED ORIGINAL PROPOSAL: Each Proposal must be an original and hard copy and signed by an authorized member of the Proposer's Firm. This member should be the highest-ranking officer at the local level. NO ORAL, FAX or E-MAILED Proposals will be accepted. Each Proposal must be submitted on the Proposal Forms attached to this RFP. Original Proposals must be clearly indicated.

COPIES OF PROPOSAL: The Proposer shall also submit with the signed originals of its Proposal one (1) complete copy of the signed original Proposal.

OPENING OF PROPOSALS: In the Conference Room of the Board of Education & Administrative Offices, after **11:00 AM EST, MONDAY, FEBRUARY 14, 2022**, all submitted Proposals shall be publicly opened and read. Any interested parties may attend. No immediate decision will be rendered.

E-MAIL CLARIFICATIONS: The School District intends to communicate with Proposers via e-mail (e.g., RFP clarifications and Addenda). Except for the delivery of the Proposal itself, references in this RFP to "written" form of communications, include e-mail.

INTENT TO RESPOND: Each Proposer who intends to submit a Proposal in response to this RFP shall submit an *"Intent to Respond"* via e-mail to Tammie Schadd at tschadd@richmond.k12.mi.us on or before noon on **MONDAY, FEBRUARY 7, 2022**. The *Intent to Respond* shall include the name of the Proposer, the name of a contact person and that person's e-mail address. Enter **"2022 High School Caulking Bid Intent to Respond"** in the Subject line of the email.

ADDITIONAL REQUESTS FOR CLARIFICATION: Prospective Proposers may request the School District clarify information contained in this RFP. All such requests or questions regarding this RFP must be received no later than noon on **TUESDAY, FEBRUARY 8, 2022**.

Questions must be submitted via email to Tammie Schadd at tschadd@richmond.k12.mi.us, or to the attention of Tammie Schadd at Richmond Community Schools, 35276 Division, Richmond, MI 48062, in writing, or via the business office facsimile at 586-727-2098. Enter **"Questions on 2022 High School Caulking Bid"** in the Subject line of the email. No response will be made to oral questions. All questions and answers will be sent to all prospective proposers via e-mail. It is the Proposer's responsibility to check their e-mail prior to the RFP Due Date to ensure that it has received all information, including, but not limited to all addenda to this RFP.

RESTRICTIONS ON COMMUNICATION: From the issue date of the RFP until a Contractor is selected and selection announced, a Proposer shall not communicate about the subject of the RFP or a Proposer's Proposal with the School District, the Board of Education, or any individual member, administrators, faculty, staff, students, or employees, except for *Pre-Proposal Meeting/Facility Walk-Through*, or additional *Requests for Clarification* in accordance with language found within this RFP.

ADDENDA TO THE RFP: If it becomes necessary to revise any part of the RFP, notice of the revision will be e-mailed in the form of an Addendum to all parties that submitted an *"Intent to Respond"* and/or attended a Pre-Proposal Meeting/Facility Walk-Through. All Addenda shall become a part of the RFP. Each Proposer must in its Proposal, to avoid any miscommunication, acknowledge all Addenda which it has received, but the failure of a Proposer to receive, or acknowledge receipt of, any Addendum shall not relieve the Proposer of the responsibility for complying with the terms thereof.

RFP/PROPOSAL INFORMATION CONTROLLING: The School District intends that all Proposers shall have equal access to information relative to this RFP, and that this RFP contains adequate information. No information communicated, either verbally or in writing, to or from a Proposer shall be effective unless confirmed by written communication contained in this RFP, an Addendum to this RFP, a Request for Clarification or other written response thereto, or in the Proposal. It is the policy of the School District to not release Request for Proposals in a changeable format (i.e., Word or Excel files). Accordingly, neither this RFP nor subsequent addenda, if any, nor any *Responses to Clarifications* will be released in other than hard copy or .pdf format.

FINALITY OF DECISION: Any decision made by the School District, including selection of Contractor(s), shall be final.

RESERVATION OF RIGHTS: The School District reserves the right, in its sole and absolute discretion (for this provision and all other provisions contained in this RFP), to accept or reject, in whole or in part, any or all Proposals with or without cause. The School District further reserves the right to waive any irregularity or informality in the RFP process or any Proposal, and the right to award the Contract to other than the Proposer submitting the best financial Proposal (low bidder). The School District reserves the right to request additional information from any or all Proposers. The School District reserves the right to negotiate with the Proposers concerning their Proposals. The School District may select one or more Firms to perform the Project on behalf of the School District.

RELEASE OF CLAIMS: Each Proposer by submitting its Proposal releases the School District from any and all claims arising out of, and related to, the RFP process and selection of Contractor(s).

PROPOSER BEARS PROPOSAL COSTS: A recipient of this RFP is responsible for any and all costs incurred by it or others acting on its behalf in preparing or submitting a Proposal, or otherwise responding to this RFP, or any negotiations incidental to its Proposal or this RFP.

IRREVOCABILITY OF PROPOSALS: Proposers may withdraw their Proposal, if so desired, any time before the Due Date. All Proposals submitted shall not be withdrawn and shall be irrevocable for a minimum period of one hundred eighty (180) calendar days following the Due Date.

COLLUSIVE BIDDING: The Proposer certifies that their Proposal is made without any previous understanding, agreement or connection with any person, firm or corporation making a Proposal for the same project and is in all respects fair, without outside control, collusion, fraud, or otherwise illegal action.

OBJECTIVE OF RFP: The objective of this RFP is to offer experienced professional firms the opportunity to present a thoroughly detailed Proposal of their expertise and qualifications to the School District. The Proposal will detail the Proposer's experience and expertise in assisting school districts of similar size and scope as the School District with their Project.

This RFP specifically requests that all Proposers present their **qualifications** and **experiences** in similar Projects (please see Proposal Requirements and Proposal Format).

The School District will select the Proposal, if any, that it deems most qualified to serve the best interests of the School District, in its sole and absolute discretion.

PURPOSE: The purpose of this RFP is to establish a contractual relationship with an experienced and qualified Firm to provide **Caulking** to the School District in the most efficient and cost-effective manner possible while, at the same time, maintaining quality of service, safety, and reliability.

TERM OF CONTRACT: Work to complete the Caulking project at Richmond High School may begin upon issuance of a purchase order to the selected Proposer. Work must be completed no later than Friday, April 15, 2022.

SELECTION TIMELINE:

The School Districts' anticipated timeline for its selection process is:

Issuance of this RFP	Wednesday, January 26, 2022
Pre-Proposal Meeting and Facility Walk-Through	Schedule appointment
Deadline for written Intent to Respond	Noon, Monday, February 7, 2022
Deadline for written Requests for Clarifications	Noon, Tuesday, February 8, 2022
Due Date for Submission of Proposals	11:00 a.m., Monday, February 14, 2022
Selection Made	Monday, February 28, 2022

PLEASE NOTE: The School District reserves the right, in their sole and absolute discretion, to change any or all portions of the above-identified selection timeline as determined to be in their best interest.

PROPOSAL REQUIREMENTS: This outlines the information that must be provided by the Proposer and the required format for the Proposal. Any Proposal not providing the required information, or not conforming to the format specified, may be disqualified. Please refer also to the Proposal Format section of the RFP for additional Proposal requirements.

Proposals must demonstrate an understanding of the scope of work and the ability to accomplish the tasks set forth herein and must include information that will enable the School District to determine the Proposer's overall qualifications. Each Proposal shall also include any other information that the Proposer feels is significant with respect to the School District making informed decisions relative to the Proposal.

Any exceptions to the terms and conditions contained in this RFP or any other special considerations or conditions requested or required by the Proposer **MUST** be specifically enumerated by the Proposer and be submitted as part of its Proposal, together with an explanation as to the reason such terms and conditions cannot be met. Each Proposer shall be required and expected to meet the RFP requirements in their entirety, except to the extent exceptions are expressly noted in its Proposal and those exceptions are expressly accepted by the School District. All Pricing factors must be clearly indicated in the Proposer's Proposal Form provided as part of its Proposal.

Include any other public K-12 school districts in which your Firm has contracted to complete similar projects. Proposers must provide a Bid Bond in the amount equal to 5% of the total Contract.

Proposers shall meet all regulatory laws, codes, licensing and permitting requirements of Local, State, and Federal law that apply to Michigan public school districts and Project Services, including, but not limited to, the Michigan Revised School Code (MCL 380.1 et seq.).

References – Proposers must provide K-12 public school references, including contact name, address, phone number and scope of services.

PROOF OF QUALIFICATIONS: The School District will ensure compliance with the above by checking references listed in the Proposals.

ORAL INTERVIEW: The School District may require qualified Proposers to participate in oral presentation to answer any questions the School District may have regarding the RFP and Proposer's Proposal. In that case, the School District will notify the Proposer's contact name as listed in its Proposal. In accordance with the RFP selection timeline, interviews will be scheduled Tuesday, February 22, 2022.

DISTRICT-CONTRACTOR COMMUNICATIONS: The Contractor shall designate a liaison to be available to communicate with the School District at all times.

DEFINITIONS OF THIS RFP AND SUBSEQUENT CONTRACT:

"Contract" "Contract" means the negotiated contract resulting in the School District's acceptance of the Contractor's Proposal, to the satisfaction of the School District, which incorporates this RFP and the Contractor's Proposal.

"Contractor" "Contractor" shall mean the Firm(s) awarded a Contract to complete Project for the School District in accordance with this RFP and the successful Proposer's Proposal.

"Project" "Project" means the project as described in this RFP.

"Proposal" "Proposal" means a response to the RFP submitted by a Proposer.

"Proposer" "Proposer" means any Firm submitting a Proposal to the School District by the specified due date in accordance with this RFP.

GENERAL CONDITIONS: After receiving formal notification that the successful Contractor was awarded a Contract, the Contractor shall furnish the District with install dates on or before Wednesday, March 9, 2022.

FEDERAL, STATE AND LOCAL LAW COMPLIANCE, AND SCHOOL DISTRICT POLICIES: The Contractor shall comply with any and all laws, rules, ordinances, policies, and regulations, including any licensing and permitting requirements, applicable to completing the project anticipated in this RFP including, but not limited to, building permits, building codes, safety regulations, licenses, etc. The Contractor, including its employees and agents, shall be responsible for knowing the School District's policies concerning appropriate behavior of persons in its Facilities and, on its properties, including for example, the prohibitions of sexual harassment and smoking, and shall comply with all such policies. The School District shall use its best efforts, as reasonably requested by the Contractor, to assist the Contractor to comply with any and all applicable federal, state, or local laws, rules, and regulations. The Contractor, by providing its Proposal to the School District, represents and warrants that it shall at all times be in compliance with any and all applicable federal and state laws, rules, ordinances, policies and regulations and licensing and permitting requirement applicable to completing the project anticipated in this RFP. The Contractor shall in the performance of such work pursuant to this RFP, its Proposal, and the Contract, fully comply with any and all applicable federal, state, or local laws, rules, and regulations, and shall indemnify, defend, and hold the School District harmless from any liability from its failure to so comply.

GOVERNING LAW: The Contract shall be governed by and construed in accordance with the laws of the State of Michigan. The parties hereby agree to the exclusive jurisdiction and venue of courts sitting in Macomb County, Michigan.

REPAIRS TO PROPERTY DAMAGE: Damage to any School District Facilities or properties caused by the Contractor, its agents or employees shall be repaired so that facilities or properties are in as good condition as before entering into the Contract. All repairs shall be accomplished at no cost to the School District.

OSHA COMPLIANCE: All services to be furnished by the Contractor, and the Contractor's working conditions and employment practices, shall comply with all applicable state and federal requirements, including, but not limited to, the Occupational Safety and Health Act.

PROPOSAL FORM

Proposer (Company/Firm/Name):

Contact Name:

Title:

Address:

City/State:

Phone:

Alternate Phone:

Facsimile:

Electronic Mail Address:

The undersigned understands the School District reserves the right to accept or reject in whole or in part any and all Proposals and to waive informalities and irregularities therein.

If award is made to our Firm based upon our Proposal, we agree to enter into the form of Contract with the School District in strict accordance with this *Request for Proposal* and our Proposal.

My signature certifies that the Proposal as submitted complies with all terms and Conditions as set forth in this *Request for Proposal*, unless specifically enumerated as an exception.

I hereby certify that I am authorized to sign as a Representative for the Firm.

Name, title, and signature of individual duly authorized to execute contracts:

Signature:

By:

Date:

DISCLOSURE STATEMENT – FAMILIAL RELATIONSHIP

Pursuant to MCL 380.1267, a sworn and notarized statement disclosing any familial relationship that exists between the owner and any employee of the vendor/contractor and any member of the Richmond Community School District Board of Education or the Richmond Community School District Superintendent must be accompanied with the bid/proposal.

Bids and Proposals without this disclosure statement will not be accepted.

The members of the Richmond Community School District Board of Education are: Deborah Michon, Angela Pacitto, Bridgette Shuboy, Danielle Sutton, Kyle Simmons, Margaret Teltow, and Sherri Zube. The Richmond Community School District Superintendent is Brian Walmsley.

☐ **The following are the familial relationship(s):**

Owner/Employee Name Related to: Relationship _____

1. _____
2. _____
3. _____
4. _____

Attach additional pages if necessary to disclose all familial relationships.

☐ **There are no familial relationships that exist** between the owner and any employee of the vendor/contractor and any member of the Richmond Community School District Board of Education or the Richmond Community School District Superintendent.

The undersigned, the owner or authorized representative of bidder (insert name) _____ does hereby represent and warrant that the disclosure statements herein contained are true.

Print Name

Signature of Bidder Representative

Title

STATE OF MICHIGAN

) ss

COUNTY OF _____)

This instrument was acknowledged before me on the ____ day of _____, _____,
by _____.

_____, Notary Public _____ County, Michigan

My commission expires: ____/____/____ Acting in the County of: _____

AFFIDAVIT OF COMPLIANCE -- IRAN ECONOMIC SANCTIONS ACT
Michigan Public Act No. 517 of 2012

The undersigned, the owner and or authorized officer of the below named contractor (the "Contractor"), pursuant to the compliance certification requirement provided in the Richmond Community Schools' (the "School District") Request For Proposals For Custodial Services (the "RFP"), hereby certifies, represents and warrants that the Contractor (including its officers, directors and employees) is not an "Iran linked business" within the meaning of the Iran Economics Sanctions Act, Michigan Public Act No. 517 of 2012 (the "Act"), and that in the event Contractor is awarded a contract as a result of the aforementioned RFP, the Contractor will not become an "Iran linked business" at any time during the course of performing the Work or any services under the contract.

The Contractor further acknowledges that any person who is found to have submitted a false certification is responsible for a civil penalty of not more than \$250,000.00 or 2 times the amount of the contract or proposed contract for which the false certification was made, whichever is greater, the cost of the School District's investigation, and reasonable attorney fees, in addition to the fine. Moreover, any person who submitted a false certification shall be ineligible to bid on a request for proposal for three (3) years from the date that it is determined that the person has submitted the false certification.

CONTRACTOR:

Name of Representative

Name of Contractor

Title

Date

STATE OF MICHIGAN

) ss

COUNTY OF _____)

This instrument was acknowledged before me on the _____ day of _____, _____,
by _____.

_____, Notary Public _____ County, Michigan

My commission expires: ____/____/____ Acting in the County of: _____

INTENT TO RESPOND FORM

Proposer (Company/Firm/Name): _____

Contact Name: _____

Title: _____

Address: _____

City/State: _____

Phone: _____

Alternate Phone: _____

Facsimile: _____

Electronic Mail Address: _____

The signature below indicates the Proposer's intention to submit a Proposal in response to the **2022 HIGH SCHOOL CAULKING RFP**.

I hereby certify that I am authorized to sign as a Representative for the Firm.

Name, title, and signature of individual duly authorized to execute contracts:

Signature: _____

By: _____

Date: _____

JOINT SEALANTS – Removal and replacement of existing sealant systems

PART 1 - GENERAL

1.1 PROJECT SUMMARY

Joint sealants for the following applications:

1. Exterior joints in, but not limited to the following vertical surfaces and horizontal non-traffic surfaces: Control and expansion joints in unit masonry.
2. Exterior joints in but not limited to the following horizontal Pedestrian and Vehicular traffic surfaces:
 - a. Isolation and contraction joints in cast-in-place concrete slabs.

1.2 PERFORMANCE REQUIREMENTS

- A. Provide elastomeric joint sealants that establish and maintain watertight and airtight continuous joint seals without staining or deteriorating joint substrates.
- B. Provide joint sealants for interior applications that establish and maintain airtight and water resistant continuous joint seals without staining or deteriorating joint substrates.

1.3 SUBMITTALS

- A. Product Data: For each joint-sealant product indicated.
- B. Samples for Verification: For each type and color of joint sealant required, provide Samples with joint sealants in 1/2-inch- (13-mm-) wide joints formed between two 6-inch- (150-mm-) long strips of material matching the appearance of exposed surfaces adjacent to joint sealants.
- C. Warranties: Special warranties specified in this Section.

1.4 QUALITY ASSURANCE

- A. Installer Qualifications: Manufacturer's authorized Installer in continuous business at least three (3) years who is approved or licensed for installation of elastomeric sealants required for this Project.
- B. Source Limitations: Obtain each type of joint sealant through one source from a single manufacturer.

1.5 PROJECT CONDITIONS

- A. Do not proceed with installation of joint sealants under the following conditions:
 1. When ambient and substrate temperature conditions are outside limits permitted by joint-sealant manufacturer or are below **40 deg F (5 deg C)**.
 2. When joint substrates are wet.

3. Where joint widths are less than those allowed by joint-sealant manufacturer for applications indicated.
4. Contaminants capable of interfering with adhesion have not yet been removed from joint substrates.

1.6 WARRANTY

- A. Special Installer's Warranty: Installer's standard form in which Installer agrees to repair or replace elastomeric joint sealants that do not comply with performance and other requirements specified in this Section within specified warranty period.
 1. Warranty Period: Five (5) years from date of Substantial Completion.
- B. Special Manufacturer's Warranty: Manufacturer's standard form in which elastomeric sealant manufacturer agrees to furnish elastomeric joint sealants to repair or replace those that do not comply with performance and other requirements specified in this Section within specified warranty period.
 1. Warranty Period: Ten (10) years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturer's Products: Subject to compliance with requirements, products that may be incorporated into the Work include, but are not limited to, products listed in other Part 2 articles.
 1. Manufacturer's sealant products are indicated for Manufacturer's "Basis of Design" only. Other manufacturer's products complying to specified criteria comparable to the Basis of Design Product will be reviewed for acceptability.
- B. Silicone Sealants (Low-Modulus)
 1. Dow Corning Corp.
 2. GE Silicones
 3. Pecora
- C. Polyurethane Sealants
 1. Sika Corp.
 2. Pecora
 3. Sonneborn Building Products
 4. Tremco

2.2 MATERIALS, GENERAL

- A. Compatibility: Provide joint sealants, backings, and other related materials that are compatible with one another and with joint substrates under conditions of service and application, as demonstrated by sealant manufacturer, based on testing and field experience.

- B. Colors of Exposed Joint Sealants: As selected by Owner from manufacturer's full range.
 - 1. Vertical Joint Sealant Color: Provide color to match as closely as possible the brick or Masonry unit (CMU) color. Where two brick colors are in the same façade, provide sealant colors to closely match each brick area. Submit samples for selection by Architect.
 - 2. Horizontal Joint Sealant Color: Provide color to match the grout color.

2.3 ELASTOMERIC JOINT SEALANTS

- A. Elastomeric Sealants: Comply with ASTM C 920 and other requirements indicated for each liquid-applied chemically curing sealant specified, including those referencing ASTM C 920 classifications for type, grade, class, and uses related to exposure and joint substrates.
- B. Stain-Test-Response Characteristics: Where elastomeric sealants are specified to be nonstaining to porous substrates, provide products that have undergone testing according to ASTM C 1248 and have not stained porous joint substrates indicated for Project.
- C. Suitability for Immersion in Liquids: Where elastomeric sealants are indicated for Use I for joints that will be continuously immersed in liquids, provide products that have undergone testing according to ASTM C 1247 and qualify for the length of exposure indicated by reference to ASTM C 920 for Class 1 or 2. Liquid used for testing sealants is deionized water, unless otherwise indicated.
- D. Suitability for Contact with Food: Where elastomeric sealants are indicated for joints that will come in repeated contact with food, provide products that comply with 21 CFR 177.2600.

2.4 SEALANT TYPES

- A. Manufacturer's products indicated are Basis of Design. Other manufacturers products complying to specified criteria will be considered.
- B. Silicone Sealant for Exterior: ASTM C 920, Grade NS, Class 25, Uses NT, A, G, M, O; single component, neutral curing, non-sagging, non-staining, fungus resistant, non-bleeding.
 - 1. Product: 790 manufactured by Dow Corning Building Sealant.
 - 2. Movement Capability: Plus 100 percent, minus 25 percent.
 - 3. Service Temperature Range: -65 to 180 degrees F (-54 to 82 degrees C).
 - 4. Shore A Hardness Range: 15 to 35.
 - 5. Location Applications:
 - a. Exterior joints.
 - b. Control, expansion, and soft joints in masonry.

2.5 PREFORMED JOINT SEALANTS

- A. Preformed Silicone-Sealant System: Manufacturer's standard system consisting of precured low-modulus silicone extrusion, in sizes to fit joint widths indicated, combined with a neutral-curing silicone sealant for bonding extrusions to substrates.
 - 1. Manufacturer's Products:

- a. Dow Corning Corporation; 123 Silicone Seal.
 - b. GE Silicones; UltraSpan US1100.
 - c. Pecora Corporation; Sil-Span.
 - d. Tremco; Spectrem Ez Seal.
- B. Preformed Foam Sealant: Manufacturer's standard preformed, precompressed, open-cell foam sealant that is manufactured from high-density urethane foam impregnated with a nondrying, water-repellent agent; is factory produced in precompressed sizes in roll or stick form to fit joint widths indicated; is coated on one side with a pressure-sensitive adhesive and covered with protective wrapping; develops a watertight and airtight seal when compressed to the degree specified by manufacturer; and complies with the following:
1. Manufacturer's Products:
 - a. EMSEAL Joint Systems, Ltd.; Emseal 25V.
 - b. illbruck Sealant Systems, Inc.; Wilseal 600.
 - c. Polytite Manufacturing Corporation; Polytite B.
 - d. Polytite Manufacturing Corporation; Polytite Standard.
 - e. Sandell Manufacturing Co., Inc.; Polyseal.
 2. Properties: Permanently elastic, mildew resistant, nonmigratory, nonstaining, and compatible with joint substrates and other joint sealants.
 - a. Density: Manufacturer's standard.

2.6 PREFORMED TAPE SEALANTS

- A. Back-Bedding Mastic Tape Sealant: Preformed, butyl-based elastomeric tape sealant with a solids content of 100 percent; nonstaining and nonmigrating in contact with nonporous surfaces; with or without spacer rod as recommended in writing by tape manufacturers for application indicated; packaged on rolls with a release paper backing; and complying with ASTM C 1281 and AAMA 800.
- B. Expanded Cellular Tape Sealant: Closed-cell, PVC foam tape sealant; factory coated with adhesive on both surfaces; packaged on rolls with release liner protecting adhesive; and complying with AAMA 800.

2.7 JOINT-SEALANT BACKING (BACKER ROD)

- A. General: Provide sealant backings of material and type that are nonstaining; are compatible with joint substrates, sealants, primers, and other joint fillers; and are approved for applications indicated by sealant manufacturer based on field experience and laboratory testing.
- B. Cylindrical Sealant Backings: ASTM C 1330, Type C (closed-cell material with a surface skin), O (open-cell material), B (bicellular material with a surface skin), or any of the preceding types, as approved in writing by joint-sealant manufacturer for joint application indicated, and of size and density to control sealant depth and otherwise contribute to producing optimum sealant performance:
- C. Elastomeric Tubing Sealant Backings: Neoprene, butyl, EPDM, or silicone tubing complying with ASTM D 1056, nonabsorbent to water and gas, and capable of remaining resilient at temperatures down to minus 26 deg F (minus 32 deg C). Provide products with low compression

set and of size and shape to provide a secondary seal, to control sealant depth, and to otherwise contribute to optimum sealant performance.

- D. **Bond-Breaker Tape:** Polyethylene tape or other plastic tape recommended by sealant manufacturer for preventing sealant from adhering to rigid, inflexible joint-filler materials or joint surfaces at back of joint where such adhesion would result in sealant failure. Provide self-adhesive tape where applicable.

2.8 MISCELLANEOUS MATERIALS

- A. **Primer:** Material recommended by joint-sealant manufacturer where required for adhesion of sealant to joint substrates indicated, as determined from preconstruction joint-sealant-substrate tests and field tests.
- B. **Cleaners for Nonporous Surfaces:** Chemical cleaners acceptable to manufacturers of sealants and sealant backing materials, free of oily residues or other substances capable of staining or harming joint substrates and adjacent nonporous surfaces in any way, and formulated to promote optimum adhesion of sealants to joint substrates.
- C. **Masking Tape:** Nonstaining, nonabsorbent material compatible with joint sealants and surfaces adjacent to joints.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine joints indicated to receive joint sealants, with Installer present, for compliance with requirements for joint configuration, installation tolerances, and other conditions affecting joint-sealant performance.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. **Surface Cleaning of Joints:** Clean out joints immediately before installing joint sealants to comply with joint-sealant manufacturer's written instructions and the following requirements:
 - 1. Remove all foreign material from joint substrates that could interfere with adhesion of joint sealant, including dust, paints (except for permanent, protective coatings tested and approved for sealant adhesion and compatibility by sealant manufacturer), old joint sealants, oil, grease, waterproofing, water repellents, water, surface dirt, and frost.
 - 2. Clean porous joint substrate surfaces by brushing, grinding, blast cleaning, mechanical abrading, or a combination of these methods to produce a clean, sound substrate capable of developing optimum bond with joint sealants. Remove loose particles remaining after cleaning operations above by vacuuming or blowing out joints with oil-free compressed air.
 - 3. Remove laitance and form-release agents from concrete.
 - 4. Clean nonporous surfaces with chemical cleaners or other means that do not stain, harm substrates, or leave residues capable of interfering with adhesion of joint sealants. Nonporous joint substrates.

- B. Joint Priming: Prime joint substrates, where required, based on preconstruction joint-sealant-substrate tests or prior experience. Apply primer to comply with joint-sealant manufacturer's written instructions. Confine primers to areas of joint-sealant bond; do not allow spillage or migration onto adjoining surfaces.
- C. Masking Tape: Use masking tape where required to prevent contact of sealant with adjoining surfaces that otherwise would be permanently stained or damaged by such contact or by cleaning methods required to remove sealant smears. Remove tape immediately after tooling without disturbing joint seal.

3.3 INSTALLATION OF JOINT SEALANTS

- A. General: Comply with joint-sealant manufacturer's written installation instructions for products and applications indicated, unless more stringent requirements apply.
- B. Sealant Installation Standard: Comply with recommendations in ASTM C 1193 for use of joint sealants as applicable to materials, applications, and conditions indicated.
- C. Acoustical Sealant Application Standard: Comply with recommendations in ASTM C 919 for use of joint sealants in acoustical applications as applicable to materials, applications, and conditions indicated.
- D. Install sealant backings of type indicated to support sealants during application and at position required to produce cross-sectional shapes and depths of installed sealants relative to joint widths that allow optimum sealant movement capability.
- E. Install bond-breaker tape behind sealants where sealant backings are not used between sealants and backs of joints.
- F. Install sealants using proven techniques that comply with the following and at the same time backings are installed:
 - 1. Place sealants so they directly contact and fully wet joint substrates.
 - 2. Completely fill recesses in each joint configuration.
 - 3. Produce uniform, cross-sectional shapes and depths relative to joint widths that allow optimum sealant movement capability.
- G. Tooling of Nonsag Sealants: Immediately after sealant application and before skinning or curing begins, tool sealants according to requirements specified below to form smooth, uniform beads of configuration indicated; to eliminate air pockets; and to ensure contact and adhesion of sealant with sides of joint.
 - 1. Remove excess sealant from surfaces adjacent to joints.
 - 2. Use tooling agents that are approved in writing by sealant manufacturer and that do not discolor sealants or adjacent surfaces.
 - 3. Provide concave joint, unless otherwise indicated.
- H. Installation of Preformed Tapes: Install according to manufacturer's written instructions.
- I. Installation of Preformed Silicone-Sealant System: Comply with the following requirements:
 - 1. Apply masking tape to each side of joint, outside of area to be covered by sealant system.

2. Apply silicone sealant to each side of joint to produce a bead of size complying with preformed silicone-sealant system manufacturer's written instructions and covering a bonding area of not less than 3/8 inch (10 mm). Hold edge of sealant bead 1/4 inch (6 mm) inside masking tape.
 3. Within 10 minutes of sealant application, press silicone extrusion into sealant to wet extrusion and substrate. Use a roller to apply consistent pressure and ensure uniform contact between sealant and both extrusion and substrate.
 4. Complete installation of sealant system in horizontal joints before installing in vertical joints. Lap vertical joints over horizontal joints. At ends of joints, cut silicone extrusion with a razor knife.
- J. Installation of Preformed Foam Sealants: Install each length of sealant immediately after removing protective wrapping, taking care not to pull or stretch material, producing seal continuity at ends, turns, and intersections of joints. For applications at low ambient temperatures where expansion of sealant requires acceleration to produce seal, apply heat to sealant in compliance with sealant manufacturer's written instructions.

3.4 CLEANING

- A. Clean off excess sealant or sealant smears adjacent to joints as the Work progresses by methods and with cleaning materials approved in writing by manufacturers of joint sealants and of products in which joints occur.

3.5 PROTECTION

- A. Protect joint sealants during and after curing period from contact with contaminating substances and from damage resulting from construction operations or other causes so sealants are without deterioration or damage at time of Substantial Completion. If, despite such protection, damage or deterioration occurs, cut out and remove damaged or deteriorated joint sealants immediately so installations with repaired areas are indistinguishable from original work.

Richmond High School

Work Scope for 2022 High School Caulking

Legend

 Richmond High School

Key:

 CJ Replacement Work Scope

Google Earth

200 ft

