



**Greater Peoria Mass Transit
Peoria, IL**

**Phase B Bid Package 1 - Addenda 2
08.27.21**

Addenda 2

- 1. Pre-Bid Meeting Agenda & Renderings**
- 2. 079200 Joint Sealants**
- 3. Bid Delivery: All bids are to be hardcopy with a bid bond, and hand-delivered to:**

**Greater Peoria Mass Transit District
Attn: Jamie Arbogast
2105 NE Jefferson St Peoria, IL 61603**

Until: September 2, 2021 @ 2:00 pm

Builders...Concept to Completion.

SECTION 07 92 00

JOINT SEALANTS

PART 1 - GENERAL

1.1 SUMMARY

- A. Work Results: Joint sealants and locations indicated on Drawings.
- B. Principal Products:
 - 1. Joint sealants.
 - 2. Installation accessories.

1.2 ADMINISTRATIVE REQUIREMENTS

- A. Coordination Procedures:
 - 1. Coordinate sealant application with installation of substrate items.

1.3 ACTION SUBMITTALS

- A. Submittal Procedures:
 - 1. Provide submittals for all sealants, exterior and interior, in a single group, regardless of how many subcontractors will install sealants. Multiple submittals for sealants are not acceptable.
- B. Product Data:
 - 1. Each type of sealant.
 - 2. Expanding tape seals.
 - 3. Initial selection color charts or samples.
- C. Verification Samples:
 - 1. Cured ribbons of custom color sealant; 12 inches minimum length.

1.4 INFORMATIONAL SUBMITTALS

- A. Test and Evaluation Reports: Manufacturer or independent testing agency test results showing:
 - 1. Compatibility between sealant and substrate.
 - 2. Priming requirements for each substrate and sealant.
 - 3. Staining potential.

1.5 CLOSEOUT SUBMITTALS

- A. Operation and Maintenance Data.
- B. Warranty Documentation: Sealants.

1.6 QUALITY ASSURANCE

- A. Source Control: Provide only one brand of sealant for each required type, regardless of number of applicators.
- B. Preconstruction Testing: Complete testing minimum 30 days before scheduled field installation.
 - 1. Adhesion: Test exterior wall sealants and traffic-bearing sealants for adhesion to metal and concrete per ASTM C794 to determine need for primer and substrate preparation.

1.7 FIELD CONDITIONS

- A. Ambient Conditions: Perform work within following limitations.
 - 1. Temperature: Perform work within sealant manufacturer temperature limits, but not below 40 deg F.
 - 2. Precipitation: None occurring and none predicted within manufacturer recommended time frame.

1.8 WARRANTY

- A. Manufacturer Warranty:
 - 1. Exterior Sealants: Warrant against product failure.
 - a. Failure includes loss of elastomeric properties and required performance attributes.
 - b. Warranty Period - Urethanes: Five years.
 - c. Warranty Period - Silicones: 20 years.

PART 2 - PRODUCTS

2.1 SEALANTS - GENERAL

- A. Source Control: Provide one proprietary product for each type of sealant required, regardless of what subcontractor installs the sealant.
- B. Select proprietary sealants for compatibility with other construction products that the sealants will contact.
- C. Multiple colors may be required for exposed sealants to coordinate with substrate colors.

2.2 EXTERIOR EXPOSED NONTRAFFIC SEALANTS

- A. Medium Modulus Silicone Sealant: Single-component, nonsag, neutral-curing; ASTM C920, Type S, Grade NS, Class 50, Use NT.
 - 1. Manufacturers and Products:
 - a. Dow DOWSIL 795.
 - b. GE Construction Sealants SCS2000 SilPruf.
 - c. Pecora Corporation PCS.
 - d. Sika Corporation Sikasil WS-295.
 - e. Tremco Spectrem 2.
 - 2. Colors: Architect selected.
 - 3. Applications:

- a. Between exterior door, louver, and window frames and adjacent construction.
- b. Perimeters of other building wall penetrations, between wall construction and penetrating items.
- c. Joints between precast panels.

2.3 INTERIOR TRAFFIC-BEARING SEALANTS

- A. Pourable Polyurea Control Joint Filler:
 - 1. Manufacturers and Products:
 - a. Master Builders Solution MasterSeal CR 100.
 - b. Sika Corporation Loadflex-524 EZ.
 - 2. Applications:
 - a. Non-moving control joints in concrete floor slabs in manufacturing areas subject to vehicle traffic.
- B. Semi-Rigid Multi-Component Epoxy Sealant: Manufacturer's standard, multi-component, self-leveling, chemical curing.
 - 1. Products:
 - a. Metzger-McGuire; MM-80 as basis of design.
 - b. BASF Corporation; MasterSeal CR 190.
 - c. Euclid Chemical; Euco 700
 - 2. Applications:
 - a. Non-moving control joints in concrete floor slabs in manufacturing areas subject to hard wheeled material handling traffic and heavy loads.

2.4 EXTERIOR CONCEALED SEALANTS

- A. Butyl Sealant: ASTM C1311.
 - 1. Manufacturers and Products:
 - a. Pecora Corporation BC-158.
 - b. Tremco Butyl Sealant.
 - c. C.R. Laurence 888.
 - 2. Applications:
 - a. Sheet metal overlaps.
 - b. Below thresholds.

2.5 INTERIOR SEALANTS AND CAULKING

- A. Interior Color Sealant: Single component modified urethane; ASTM C920, M, Grade NS, Class 50, Uses T and NT.
 - 1. Manufacturers and Products:
 - a. Master Builders Solutions MasterSeal NP1.
 - b. Pecora DynaTrol I XL Hybrid.
 - c. Sika Corporation Sikaflex 2c NS EZ Mix.
 - d. Tremco Dymeric 240FC.
 - 2. Colors: Architect selected.
 - 3. Applications:
 - a. Interior joints noted as 'sealant' on Drawings.
 - b. Control and expansion joints in tile, except where sanitary sealant is shown.
 - c. Terminations of wall coverings at tile and other materials.
 - d. Sealant joints in ornamental metals.

- B. Sanitary Sealant: Mildew-resistant silicone; ASTM C920, Type S, Grade NS, Class 25, Use NT.
 - 1. Manufacturers and Products:
 - a. Dow DOWSIL 786 SILICONE SEALANT
 - b. Pecora Corporation; 860.
 - c. Tremco Incorporated; Tremsil 200 Sanitary.
 - 2. Colors: Architect selected.
 - 3. Applications:
 - a. Joints around plumbing fixtures and fittings.
 - b. Joints between showers and tile.
 - c. Perimeters of lavatory counters.

2.6 INSTALLATION ACCESSORIES

- A. Primer: As required by sealant manufacturer for Project uses.
- B. Backer Rod: ASTM C1330, Type C, closed-cell or Type O, open-cell, as recommended by sealant manufacturer for Project uses.
- C. Backer Tape: Wax-free self adhesive, self expanding impregnated open cell foam tape. Impregnating material does not stain joint surfaces, bleed, or become brittle.
 - 1. Emseal Backerseal
- D. Bond Breaker Tape: Self-adhesive plastic tape to prevent sealant from adhering to back of joint.
- E. Cleaners: As recommended by sealant manufacturer.
- F. Masking: Non-staining, self-adhesive.

2.7 MIXES

- A. Multicomponent Sealants: Mix components to uniform consistency and color.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Clean joint surfaces for optimum adhesion. Remove dirt, moisture, and incompatible substances.
- B. Roughen vitreous and glazed joint surfaces as recommended by sealant manufacturer.
- C. Remove laitance and form release agents from concrete.
- D. Prime joint surfaces where recommended by sealant manufacturer. Protect adjacent surfaces from misapplication or spillage of primer.
- E. Mask surfaces adjacent to joints to receive elastomeric sealants. Remove masking after tooling.

3.2 INSTALLATION

- A. Installation Reference Standard: ASTM C1193.
- B. Performance Requirements:
 - 1. Exterior Joint Sealants: Provide continuous, weatherproof seals to prevent infiltration of air and water through the joints in which they are installed.
 - 2. Interior Joint Sealants: Provide continuous seals to prevent air infiltration through the joints in which they are installed. Sanitary sealant shall also prevent water infiltration.
 - 3. Appearance: Cured sealants shall have smooth surfaces free of gaps, voids, bubbles, lumps, crevices, runs, drips, striations, and other irregularities.
- C. Set joint filler units at uniform depths in joints to support sealants and maintain proper sealant cross-section shape and depth within the following general limitations, measured at center (thin) section of beads.
 - 1. Other Joints: Sealant depth equal to 50 percent of joint width, but not more than 1/2 inch deep nor less than 1/4 inch deep.
- D. Set joint filler for sealant neck dimension of maximum 1/3 of joint width.
- E. Install joint fillers under compression and friction fit. Do not install filler units that have absorbed water.
 - 1. Do not leave voids or gaps between ends of joint filler units.
 - 2. Do not stretch, twist, puncture, or tear joint fillers.
 - 3. Remove joint fillers that have absorbed moisture or which have ruptured gas cells and install suitable new fillers before sealant application.
- F. Install bond breaker tape where joint filler is not used to prevent adhesion to back of joint.
- G. Deposit sealants in uniform, continuous ribbons without gaps or air pockets.
- H. Tool sealants to ensure full adhesion. Form smooth, slightly concave surface.
- I. Cure joint sealants.

3.3 CLEANING

- A. Clean spills, misapplications, and material migrations immediately as they occur.
- B. Clean marred surfaces by whatever means are necessary to eliminate evidence of spillage.

END OF SECTION

**Greater Peoria Mass Transit
Peoria, IL**

Pre-Bid Meeting
08.19.21 / 2:00 p.m.

- **Introductions:**
 - Greater Peoria Mass Transit – Owner
 - Muller & Muller – Architect
 - River City Construction – Construction Manager
 - **Project Overview:** This will be a phased project, this being Phase B. This consists of a 3-story, 52,000 SF Admin building & Maintenance Facility. It consists of precast, structural steel, offices, parts, maintenance areas, utilities, insulated metal panels, and finishes.
 - **Pre-Construction Schedule**
 - Final Addendum – Issued on August 27th, 2021
 - All RFI's are due by August 23rd, 2021 at 2:00 p.m.
 - Bids Due – September 2nd, 2021, at 2:00 p.m.
 - Bid Scope Reviews – 1 week.
 - Board Approval – October 11th, 2021(NTP this week)
 - **Bidding**
 - Bids due by September 2nd, 2021 @ 2:00 p.m.
 - Sealed bids turned into Greater Peoria Mass Transit (2105 NE Jefferson, Peoria; by work category on Bid Form.
 - 3.1 Precast
 - 5.1 Structural Steel Fabrication & Erection
 - Misc. steel will be out in October with the remaining packages for all phases and work categories.
- NOTE: Must review scope of work outlined in Procurement Manual**
- Submitting more than one (1) work category – separate sealed bids are required.
 - All Signature sheets need to be signed, notarized, & attached to bid form.
 - No emailed bids will be accepted.
 - 5% Bid Bond required.

- AIA 312 Bond Form acceptable.
 - Cashier's Check acceptable.
- 100% Payment & Performance Bond will be required.
 - Owner has specified amounts refer to Procurement Manual
- Project is Tax Exempt.
- All RFI's need to be submitted to Beth Schupp at bschupp@rccllc.com by August 23rd at 2:00 p.m.
- Documents located on RCC website & Smart Bid which all notifications will be sent out from.
 - RCC Website: <https://www.rccllc.com/smart-bid/>
- Procurement Manual
 - 000200 Notice to Bidders
 - 001000 Instructions to Bidders
 - 002000 Information for Bidders
 - Site Logistics
 - Project Schedule – Key Milestones
 - Board Approval – October 11th, 2021
 - NTP – Week of October 11th
 - Permit – Architects are working with the City currently.
 - Structural Steel – August 2022
 - Precast – October 2022
 - Substantial Completion – April 2023
 - 002100 Buy America
 - 002200 Disadvantaged Business Enterprise (12% Goals)
 - 002300 State of Illinois Mandatory Sexual Harassment Training
 - 003100 Bid Forms
 - 008200 Insurance Coverage
 - 009000 Work Categories / Scopes
 - 009001 Subcontractor Contract Example
- **Questions / Answers**



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CityLink

GREATER PEORIA MASS TRANSIT DISTRICT





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