DOCUMENT 00 9010
ADDENDUM NUMBER 02

DATE: October 10, 2022
PROJECT: SE Branch Library Parking Lot Replacement
PROJECT NUMBER: PJ000106
OWNER: City of Arlington
ARCHITECT: Simon Engineering & Consulting, Inc.
15443 Knox Trail Drive, Suite 140
Dallas, TX
Ph: (214) 884-2056
TO: Prospective Bidders

This Addendum forms a part of the Contract Documents and modifies the Bidding Documents dated _October 5, 2022 and October 6, 2022, with amendments and additions noted below. Acknowledge receipt of this Addendum in the space provided in the Bid Form. Failure to do so may disqualify the Proposers.
This Addendum consists of (_11_) pages.

QUASTIONS AND ANSWERS:

1. Supplier: IS Construction
   Question: Is there a specification for the Cement Grout Injection?
   Answer: Yes, TxDOT DMS-4675 included as attachments

2. Supplier: Peachtree Construction
   Question: Do you have a specification for the Paving Fabric/ Reinforcement Asphalt that goes over the concrete expansion joints as shown in the Detail A Typical Section?
   Answer: Yes, TxDOT Item 356 Fabric Underseal included as attachments. But full payment is included under Item 340 2” Asphalt Overlay

3. Supplier: Peachtree Construction
   Question: The quantity summary shows 225 tons of 2" Asphalt Overlay. My takeoff is showing closer to 550 tons based on the area. Can you clarify this quantity?
   Answer: Yes, correct around 550 tons using average density of 148 PCF. Quantity summary page updated to 605 using 10 percent contingency.

4. Supplier: Peachtree Construction
   Question: Since the bid form only has a single base bid item, will the project be bid at a single lump sum price?
   Answer: Yes, the project is to be bid a single lump sum price.

CHANGES TO DRAWINGS/PROJECT MANUAL:

1. Quantity summary sheet updated.

2. Specification for Cement Grout injection provided.
3. Specification for Fabric Underseal provided.
4. Specification for Concrete Crack repair provided.

End of Addendum

10/10/2022

CITY OF ARLINGTON
SE BRANCH LIBRARY PARKING LOT REPLACEMENT
QUANTITY SUMMARY

ITEM NO.	ITEM DESCRIPTION	UNITS	ARLINGTON PUBLIC LIBRARY	CALC TOTAL	BID TOTAL
104	REMOVE CONC CURB	LF	103	103	113
104	REMOVE CONCRETE SIDEWALK	SY	375	375	413
XXX	REMOVE FOAM SEALANT	SF	107	107	118
132	EMBANKMENT	CY	100	100	110
162	SODDING	SY	105	105	116
316	PROP CURB RAMP (TY 7)	EA	1	1	1
316	PROP CURB RAMP (TY 10)	EA	1	1	1
320	PROP 9" CONCRETE SIDEWALK CURB	LF	125	125	138
340	2" ASPHALT OVERLAY	TON	550	550	605
400	CEMENT GROUT INJECTION	CY	8	8	9
481	INSTALL 4" PVC PIPE	LF	20	20	22
481	INSTALL 10" PVC PIPE	LF	16	16	18
XXX	PROP FRENCH DRAIN	LF	12	12	13
XXX	CATCH BASIN	EA	1	1	1
500	MOBILIZATION	LS	1	1	1
506	STABILIZED CONSTRUCTION ENTRANCE/EXIT	SY	100	100	110
506	TEMP SEDMT CONTROL FENCE	LF	878	878	966
528	REMOVE AND RELAY EXISTING PAVERS	SY	17	17	19
529	INSTALL CONC CURB	LF	103	103	113
530A	PROJECT CONSTRUCTION SIGNS	LS	1	1	1
531	INSTALL 4 IN THICK SIDEWALK	SY	421	421	463
5131	FIXED BOLLARDS	EA	3	3	3
XXX	REMOVE AND REPLACE WHEEL STOPS	EA	8	8	9
623	SIDEWALK LUG	LF	372	372	409
645	INSTALL SILT FENCE	LF	878	878	966
662	REFL PAV MRK TY I (RED) 6" (090MIL) (FIRE LANE)	LF	1620	1620	1782
666	REFL PAV MRK TY I (W) 4" (090MIL)	LF	1950	1950	2145
713	GRIND, CLEAN, REPAIR AND SEAL JOINTS AND CRACKS (CONC PAVEMENT)	LF	5500	5500	6050
1225A	INLET PROTECTION	EA	8	8	9

yohannes okubay

YOHANNES OKUBAY
133182
LICENSED
PROFESSIONAL ENGINEER

TBPE Firm No. 10997
10/10/2022

No.	Date	Revisions
1	10/05/2022	UPDATED QUANTITY SUMMARY
2	10/10/2022	UPDATED QUANTITY SUMMARY

simon ENGINEERING & CONSULTING
15443 KNOLL TRAIL DRIVE - SUITE 200
DALLAS, TEXAS 75248
TBPE #F-10997

CITY OF ARLINGTON, TEXAS
ARLINGTON PUBLIC LIBRARY SOUTHEAST BRANCH
QUANTITIES SUMMARY
900 SE GREEN OAKS BLVD, ARLINGTON, TX 76018

DATE: 08/12/2022	SCALE: AS SHOWN	SHEET 1 OF 15
DESIGNED BY: VVS	DRAWN BY: RAK	CHECKED BY: YO

DMS-4675

Cementitious Grouts and Mortars for Miscellaneous Applications

Effective Date: December 2014

1. DESCRIPTION

This Specification governs the pre-qualification procedure, packaging, and material properties of cementitious grouts and mortars used for miscellaneous applications. These applications include but are not limited to:

- grouting precast member connections,
- grouting anchor bolts and dowels,
- grouting lateral connectors for prestressed beams,
- bearing seat build ups, and
- jointing of concrete pipe and box culverts with mortar.

The grouts and mortars governed by this Specification are not suitable for encapsulating post-tensioning strands. Refer to DMS-4670, "Grouts for Post-Tensioning," for the material requirements for post-tensioning grout material.

2. UNITS OF MEASUREMENTS

The values given in parentheses (if provided) are not standard and may not be exact mathematical conversions. Use each system of units separately. Combining values from the two systems may result in nonconformance with the standard.

3. MATERIAL PRODUCER LIST

The Materials and Pavements Section of the Construction Division (CST/M&P) maintains the Material Producer List (MPL) of all materials conforming to the requirements of this Specification. Materials appearing on the MPL, entitled "Cementitious Grouts and Mortars for Miscellaneous Applications," require no further sampling and testing unless deemed necessary by the Project Engineer or CST/M&P.

4. BIDDERS' AND SUPPLIERS' REQUIREMENTS

The Department will only purchase or allow on projects those products listed by producer and product code or designation shown on the MPL.

Use of pre-qualified product does not relieve the Contractor of the responsibility to provide product that meets this Specification. The Department may inspect or test material at any time and reject any material that does not meet the specifications.

5. PRE-QUALIFICATION PROCEDURE

5.1. **Pre-Qualification Request.** Submit a request for evaluation under DMS-4675 to DMS_Prequal@txdot.gov.

Include the following information in the request:

- company name;
- physical and mailing addresses;
- contact person, phone number, and email address; and
- material type (grout or mortar).

5.2. **Pre-Qualification Sample.** Submit a minimum 100-lb. sample of grout material or 50-lb. sample of mortar material to the Texas Department of Transportation, CST/M&P (CP51), 9500 North Lake Creek Parkway, Austin, TX 78717.

Include the following with the sample:

- test report from an independent laboratory audited and inspected by the Cement Concrete Research Laboratory (CCRL) containing test results and certifying compliance of the material with this Specification;
- manufacturer's certification and lot number for submitted sample;
- manufacturer's certification that the material contains no added chlorides;
- technical data sheets typically accompanying the product with printed instructions for mixing, application, and shelf life;
- current safety data sheet (SDS) that complies with OSHA Hazard Communication Standard 29 CFR 1910.1200; and
- list of all possible package quantities and types of packaging.

Submit all materials for pre-qualification at no cost to the Department.

5.3. **Evaluation.** The Department reserves the right to perform any or all of the tests specified as a check on the tests reported by the manufacturer. In the case of any variance, the Department's tests will govern. CST/M&P will notify prospective bidders and suppliers after completion of material evaluation.

5.3.1. **Qualification.** If approved for Department use, CST/M&P will add the material to the MPL.

To maintain pre-approved status, submit annual notarized certifications stating that the product has not been altered since it was originally submitted for approval.

Report changes in the composition or in the manufacturing process of any material to CST/M&P. Significant changes reported by the producer, as determined by the Director of CST/M&P, may require a re-evaluation of performance. The Department reserves the right to conduct whatever tests it deems necessary to identify a pre-qualified material and determine if there is a change in the composition, manufacturing process, or quality that may affect its durability or performance. In case of variance, the Department's tests will govern.

5.3.2. **Failure.** Producers not qualified under this Specification may not furnish materials for use on Department projects.

Producers failing to qualify may submit a request for re-evaluation after 6 months have elapsed from the date of the original request. CST/M&P may modify this time limit at its discretion. In the request for re-evaluation, document the cause of the issue and corrective action taken.

The Department normally bears the costs of sampling and testing; however, the producer will bear the costs associated with materials failing to conform to the requirements of this Specification. The Director of CST/M&P will assess this cost at the time of testing, and amounts due will be billed to the producer.

5.4. **Periodic Evaluation.** The Department reserves the right to randomly sample and evaluate pre-qualified materials for conformance with this Specification and to perform random audits of documentation.

Department representatives may sample material from the manufacturing plant, the project site, and the warehouse.

Failure of materials to comply with the requirements of this Specification as a result of periodic evaluation may be cause for removal of those materials from the MPL. In case of variance, the Department's tests will govern.

5.5. **Disqualification.** Causes for disqualification and removal from the MPL may include, but are not limited to:

- falsification of documentation,
- producer fails to report any change in material composition or manufacturing process to CST/M&P,
- material fails to meet the requirements of this Specification as a result of periodic evaluation, or
- producer has unpaid charges for failing samples.

CST/M&P will remove disqualified producers from the MPL and will not allow submission of material for re-qualification for 6 months, at the discretion of the Department.

5.6. **Re-Qualification.** Once the disqualification period established by CST/M&P has elapsed, producers disqualified and removed from the MPL may begin the re-qualification process by submitting a request in accordance with Section 5.1, including additional documentation identifying the cause of the problem and corrective action taken. The re-qualification process will then follow all subsequent Sections of Article 5.

The Department normally bears the costs of sampling and testing; however, the disqualified producer will bear the costs associated with re-qualification. The Director of CST/M&P will assess this cost at the time of re-evaluation, and amounts due will be billed to the producer.

6. MATERIAL REQUIREMENTS

Products must not contain metallic formulations or chlorides. Additives to pre-packaged materials are not allowed.

The material requirements and test methods listed in Tables 1 and 2 are for laboratory testing only. Field testing may require different tests and/or specimen sizes or geometries.

6.1. **Grouts.** Pre-packaged grouts must conform to ASTM C 1107 and meet the additional material requirements stated in Table 1. Where there is conflict between ASTM C 1107 and the requirements listed in Table 1, the requirements of this Specification govern. Additionally, the Department will only allow extension of a grout mixture with pea gravel if recommended by the manufacturer.

Table 1
Material Requirements of Cementitious Grout

Property	Requirement	Test Method
Fluidity – efflux time from flow cone	20–30 sec.	Tex-437-A, Method 1
Setting time Initial set Final set	 2.5–5.0 hr. 4.0–8.0 hr.	ASTM C 191
Volume change	0.0–0.3% expansion at 24 hr. and 28 days	ASTM C 1090[1]
Coefficient of thermal expansion	3.0–10.0 micro strain/°F	Tex-428-A
Modulus of elasticity	2,800 ksi–5,000 ksi at 28 days	ASTM C 469
Compressive strength (average of 3 cubes), Min	3,000 psi at 16 hr. 3,500 psi at 1 day 4,000 psi at 3 days 5,800 psi at 28 days	Tex-442-A
Freeze/thaw resistance	90% at 300 cycles	ASTM C 666

1. Modified to include verification at only 24 hr. and 28 days.

6.2. **Mortars.** Pre-packaged mortars used for reinforced concrete pipe joints and bearing seat build-ups must meet the material requirements stated in Table 2.

Table 2
Material Requirements of Cementitious Mortars

Property	Requirement	Test Method
Mortars for RC Pipe Joints		
Compressive strength (average of 3 cubes), Min	1,800 psi at 28 days	ASTM C 109
Mortars for Bearing Seat Build-Ups		
Compressive strength (average of 3 cubes), Min	3,000 psi at 16 hr. 3,500 psi at 1 day 4,500 psi at 28 days	ASTM C 109

7. PACKAGING AND LABELING

Prepackage grout or mortar in plastic lined or coated bags. Grout or mortar bags must indicate the brand name, date of manufacture, lot number, and mixing instructions. The grout or mortar supplier must provide the Contractor and Engineer with a copy of the quality control data sheet for each lot number and shipment sent to the jobsite.

Item 356
Fabric Underseal

1. DESCRIPTION

Furnish and place fabric underseal in a longitudinal, full-road-width application or over pavement joints.

2. MATERIALS

2.1. **Longitudinal, Full-Width Underseal**.

2.1.1. **Fabric**. Provide fabric meeting DMS-6220, "Fabric for Underseals." Use roll widths shown on the plans or as approved.

2.1.2. **Asphalt**. Provide the grade of asphalt shown on the plans and in accordance with Item 300, "Asphalts, Oils, and Emulsions."

2.1.3. **Blotter**. Provide screenings, natural sand, or other materials as approved.

2.2. **Pavement Joint Underseal**. Provide material in accordance with DMS-6220, "Fabric For Underseals," or DMS-6260, "Reinforced Fabric Joint Underseal," as specified on the plans. Use roll widths as shown on the plans or as approved.

3. EQUIPMENT

Provide applicable equipment in accordance with Item 316, "Seal Coat," for longitudinal, full-width underseal.

4. CONSTRUCTION

Apply fabric underseal when the air temperature is 60°F and above, or above 50°F and rising. Never apply when surface temperature is below 50°F. Do not apply when, according to the Engineer, weather conditions are not suitable. Measure air temperature in the shade and away from artificial heat.

4.1. **Longitudinal, Full-Width Underseal**.

4.1.1. **Surface Preparation**. Prepare the surface by cleaning off dirt, dust, or other debris. Set string lines for alignment if required. Remove existing raised pavement markers in accordance with the plans. Remove vegetation and blade pavement edges when shown on the plans.

4.1.2. **Asphalt Binder Application**. Apply asphalt binder:

- with an asphalt distributor unless otherwise approved,
- at the rate shown on the plans or as directed,
- within 15°F of the temperature selected by the Engineer,
- approximately 6 in. outside the fabric width, and
- with paper or other approved material at the beginning and end of each shot to construct a straight transverse joint and to prevent overlapping of the asphalt.

Match longitudinal joints with the lane lines unless otherwise approved. The Engineer may require a string line if necessary to keep joints straight with no overlapping. Never contaminate asphalt binder.

4.1.3. **Fabric Placement**. Align the fabric and broom or roll it in place immediately after asphalt binder application. Cut the fabric, overlap the cut fabric to create a transverse joint, and begin application again if skewed alignment occurs. Roll or broom fabric onto the asphalt binder in a manner that prevents air bubbles from forming under the fabric. Provide an alternate means of securing the edges to the pavement if wind prevents proper adherence of the fabric to the asphalt binder, especially at the edges. Cease underseal application if it is determined that wind conditions prevent proper placement.

4.1.3.1. **Transverse Joints**. Overlap transverse joints by a minimum of 6 in. Make all transverse joints with the top layer in the direction of traffic if traffic is allowed directly on the underseal. Secure ends of overlapping fabric layer at transverse joints by nailing or other approved means.

4.1.3.2. **Longitudinal Joints**. Overlap longitudinal joints by a minimum of 4 in. Apply additional asphalt binder to secure longitudinal fabric joints.

4.1.4. **Blotter**. Apply blotter as directed to the top of the underseal to absorb excess asphalt binder. Remove any excess blotter as directed.

4.2. **Pavement Joint Underseal**.

4.2.1. **Surface Preparation**. Remove dirt, dust, or other debris from all joints and from the area on both sides of the joint that will be in contact with the installed underseal. Other preparation for proper adherence may be required as shown on the plans.

4.2.2. **Fabric Placement**. Do not allow joints or laps in the underseal material for transverse pavement joints. Minimize underseal material joints in longitudinal pavement joints, and do not allow overlap. Center the fabric width over the joint. Apply fabric to the joint with a minimum of 5 in. on each side or as specified on the plans. Do not allow air bubbles under the fabric.

4.2.2.1. **Non-Woven Fabric and Binder**. Apply asphalt binder as directed in Section 356.4.1.2., “Asphalt Binder Application.” Place fabric as directed in Section 356.4.1.3., “Fabric Placement,” except do not allow joints or laps in the underseal material along transverse pavement joints.

4.2.2.2. **Reinforced Joint Fabric**. Remove any protective coatings from the adhering layer of the fabric underseal. Roll fabric in place to ensure adherence of the self-adhering binder.

5. MEASUREMENT

5.1. **Longitudinal, Full-Width Underseal**.

5.1.1. **Asphalt Binder**. Asphalt binder will be measured as follows:

5.1.1.1. **Volume**. Volume measurements will be made at the point of application on the road as gallons used at the application temperature, as directed, in the accepted fabric underseal.

5.1.1.2. **Weight**. Weight measurements will be by the ton in accordance with Item 520, “Weighing and Measuring Equipment.” At the end of the project, deduct any remaining material from quantities delivered to determine pay quantities.

5.1.2. **Fabric**. Fabric will be measured by the square yard based on the widths shown on the plans and the lengths measured at placement with no allowance for overlapping at transverse and longitudinal joints.

5.2. **Pavement Joint Underseal**. Pavement joint underseal will be measured by the foot.

6. PAYMENT

The work performed and materials furnished in accordance with this Item and measured as provided under "Measurement" are paid for at the unit bid price for "Asphalt Binder" of the type and grade specified and for "Fabric" for full-width underseals and "Pavement Joint Underseal" of the product width specified for pavement joint underseals. These prices are full compensation for cleaning and preparing the existing pavement, including removal of raised pavement markers; furnishing, preparing, hauling, and placing materials, including blotter; manipulation, including rolling and brooming; and equipment, labor, tools, and incidentals.

Item 780
Concrete Crack Repair

1. DESCRIPTION

Repair cracks in concrete members by epoxy injection, gravity filling, routing and sealing, or surface sealing.

2. MATERIALS

Provide materials in accordance with the Department's *Concrete Repair Manual*. Select a pre-approved material meeting the requirements of the applicable DMS when available.

3. WORK METHODS

Follow the procedures outlined in the Department's *Concrete Repair Manual*. Submit alternate procedures to the Engineer for approval before proceeding with repair work.

The manual includes the following categories of concrete crack repair:

- Pressure-Injected Epoxy,
- Gravity-Fed Sealant,
- Routing and Sealing, and
- Surface Sealing.

4. MEASUREMENT

This Item will be measured by the foot of exterior crack length, injected gallon, square footage for flood coats, or lump sum.

5. PAYMENT

The work performed and the materials furnished in accordance with this Item and measured as provided under "Measurement" will be paid for at the unit price bid for "Concrete Crack Repair" of the type specified. This price is full compensation for furnishing and installing all repair materials, equipment, labor, and incidentals.