



ADDENDUM NO. 1

PROJECT NAME: **Street Maintenance Year 3 – BID #2020-03**

DATE: June 11, 2020

This addendum should be included in and be considered part of the plans and specifications for the name of the project. The contractor shall be required to sign an acknowledgement of the receipt of this addendum and submit with their bid.

Addendum No. 1 is issued to notify, add, change and replace the following:

I. Pre-Bid Meeting:

1. Pre-Bid Meeting Agenda held on June 9, 2020 is attached.

II. General Clarifications:

1. The concrete sidewalks and ramps shall consist of No. 3 rebar, 18” O.C.E.W, no wire mesh will be allowed.
2. The substantial completion period has changed from 60 Calendar Days to 90 Calendar Days and the Final Completion has changed from 90 Calendar Days to 120 Calendar Days.
3. Remove and replace Special Specification 3028 – Frictional Asphaltic Surface Preservation Treatment in its entirety with the attached Special Specification 3028.

Attachments:

- a) Addendum Acknowledgement Form (1 Page)
- b) Pre-Bid Meeting Agenda (1 Page)
- c) Special Specification 3028 – Frictional Asphaltic Surface Preservation Treatment (4 Pages)

Total Pages Addendum No. 1: (6 Pages)

END OF ADDENDUM No. 1



Note: Addenda Acknowledgement Form for Addendum No. 1 is attached herein. This form must be signed and submitted with the bid package.

RECEIPT OF ADDENDUM NUMBER(S) 1 IS HEREBY ACKNOWLEDGED FOR PLANS AND SPECIFICATIONS FOR CONSTRUCTION OF STREET MAINTENANCE YEAR 3 – BID #2020-03

FOR WHICH BIDS WILL BE PUBLICALLY OPENED ON THURSDAY, JUNE 18, 2020 AT 10:00 A.M.

THIS ACKNOWLEDGEMENT MUST BE SIGNED AND RETURNED WITH THE BID PACKAGE.

Company Name: _____

Address: _____

City/State/Zip Code: _____

Date: _____

Signature

Print Name/Title



Street Maintenance Year 3
BID #2020-03
Pre-Bid Meeting Agenda
June 9, 2020
10:00 AM

Project Overview:

Base Bid: Mill and overlay certain streets within the city limits. Apply single bituminous slurry seal to certain streets within the city limits. Provide sidewalk ramp improvements along certain streets, remove and replace approximately fifty-one (51) curb ramps. Provide sidewalks across the alleys within the Linkwood Subdivision

Additive Alternate Bid: Mill and overlay certain streets within the city limits.

General Discussion:

- Construction Phasing and Traffic Control Plan in accordance with CoSA and TxDOT.
- Contractor will be responsible for construction staking.
- Engineers Opinion of Probable Construction Cost Estimate is provided on the Bid Advertisement, Base Bid: \$575,000
- All technical questions/comments must be submitted to Byron Sanderfer, PE, LNV, LLC at BSANDERFER@LNVINC.COM
- Addendums will be posted to the City of Leon Valley website: <http://www.leonvalleytexas.gov/government/finance/purchasing.php> and on Public Purchase at www.publicpurchase.com

Important Dates:

- Thursday, June 18, 2020
 - Bids are due to the City of Leon Valley, Office of the Public Works at 6400 El Verde, Leon Valley, Texas 78238 **by 10:00 AM CST** and will be opened publicly and read aloud at approximately **10:00 AM CST**.
 - Each bid must be accompanied by a cashier's check, certified check, or bid bond in an amount not less than **5%** of the total bid price
- Substantial Completion is within 60 Calendar Days from Notice to Proceed.
- Liquidated Damages: \$500.00 for each calendar day over the allotted time.

Special Specification 3028

Frictional Asphaltic Surface Preservation Treatment

1. DESCRIPTION

Apply a surface preservation treatment consisting of one or more applications of a single layer of asphaltic and aggregate material.

2. MATERIALS

Furnish materials in accordance with the following:

4.1 Asphalt.

Furnish an emulsified asphalt in accordance with Table 1. Furnish water free of industrial wastes and other objectionable matter.

Table 1. Emulsified Asphalt

Property	Test Procedure	Min	Max
Viscosity	T 59	20	100
Particle Charge Test	T 59	Positive	
Sieve, %	T 59	0	0.1
Residue by Distillation, percent	T 59	60	-
Penetration at 77°F, 100 g, 5 sec.	T 49	40	150

Use a quantity of emulsified asphalt in the mixture, expressed as a percentage of total weight, the percentage shown on the plans, or as directed.

2.2 Aggregate. Furnish aggregate meeting TxDOT Item 302, "Aggregates for Surface Treatments," of the grade shown in Table 2.

Table 2. Aggregates

Physical Properties ¹			
Property	Test Procedure	Min.	Max.
Water Absorption, %	T 84	-	4
Micro-Deval, %	D 7428 ²	-	20
Gradation ³			
Sieve	Standard	Master Grading Band Limits Percent Passing	
No. 8	C 136	100	
No. 16	C 136	85-100	
No. 30	C 136	75-100	
No. 60	C 136	10-40	
No. 100	C 136	0-10	
No. 200	C 117	0-5	
			± 5
			± 5
			± 5
			± 1

1. Perform physical property tests on aggregates that are received before blending into sealer.
2. Micro-Deval on aggregate larger than No. 60 sieve U.S.

2.3 Additives. Add clay, polymers, water, and other additives as required. Use a minimum of 4% polymer by weight. Furnish water free of industrial wastes and other objectionable matter.

or:

Other Additives. Use approved additives as recommended by the Frictional Asphaltic Surface Preservation Treatment manufacturer when necessary to adjust mix time in the field.

3. MIX DESIGN

3.1 Furnish a laboratory mix design meeting the requirements shown in Table 3:

Table 3. Laboratory Mix Design

Test	Test Procedure	Min	Max
Wet-Track Abrasion Loss, 3 day soak, g/m ²	D 3910 ¹	--	80
Asphalt Content by Ignition Method, %	T 308	30	--
Dynamic Friction Test Number, 20 kph	E 1911 ²	0.90	--

1. Use the modified method to account for realistic application depth and fine emulsion mixture.
2. Establish base friction value using prepared laboratory compacted slab of approved mix as surface to be tested. The Dynamic Friction Test (DFT) number ratio should indicate that after application of the mastic seal, the surface retains required minimum percentage DFT number of the original pavement surface.

3.2 Furnish a production or field sample meeting the requirements shown in Table 4:

Table 4. Production or Field Sample

Test	Test Procedure	Min	Max
Solids Content by Evaporation, %	T 59 ¹	48	--
Asphalt Content by Ignition Method, %	T 308 ³	30	--
Rotational Viscosity, 20 rpm, RV spindle, 25°C, cP	D 2196 ²	800	4000
Temperature for storage and application, °F	--	60	130

1. Dry specimens to a state where measurements taken 20 minutes apart do not change.
2. Test samples within 7 days.
3. Reduce sample size to achieve asphalt quantity. It is very important that this test be performed on a completely dry sample.

4. EQUIPMENT

4.1 **Material Spreading Equipment.** Furnish one of the following:

4.1.1. **Premixed Seal Machine** with:

- self-loading devices to promote continuous laying operations;
- enough storage capacity for mixture materials;
- individual volume or weight controls that will proportion each material to be added to the mix;
- continuous flow mixing with a revolving multi-blade mixer capable of discharging the mixture on a continuous flow basis;
- opposite side driving stations;
- full hydrostatic control of the forward and reverse speed during operation;
- a water pressure system and nozzle-type spray bar immediately ahead of the spreader box and capable of spraying the roadway for the width of the spreader box;
- a mechanical-type spreader box equipped with paddles or other devices capable of agitating and uniformly spreading the materials throughout the box;
- a spreader box with devices capable of providing lateral movement or side shift abilities; and
- a spreader box with a front seal, adjustable rear strike-off, and an adjustable secondary rear strike-off or burlap-drag as approved.

Calibrate and properly mark each control device that proportions the individual materials. Equip the aggregate feed with a revolution counter or similar device capable of determining the quantity of aggregate used at all times. Provide a positive-displacement-type emulsion pump with a revolution counter or similar device capable of determining the quantity of emulsion used at all times. Provide

an approved mineral filler feeding system capable of uniformly and accurately metering the required material.

- 4.1.2. **Mixing Plant.** Provide a stationary pugmill, weigh-batch, or continuous mixing plant as approved. Equip plants with digital proportioning and metering devices that produce a uniform mixture of asphalt, aggregate and additives in the specified proportions.
- 4.1.3. **Distributor.** Provide applicable equipment in accordance with TxDOT Article 316.3., "Equipment." Furnish the necessary facilities and equipment for determining the temperature of the mixture, regulating the application rate, and securing uniformity at the junction of 2 distributor loads. Furnish a distributor capable of keeping the Frictional Asphaltic Surface Preservation Treatment in uniform suspension and adequately mixing the asphalt, aggregate and additives.
- 4.1.4. **Asphalt Storage and Handling Equipment.** When using storage tanks, furnish a thermometer in each tank to continuously indicate the asphalt temperature. Keep equipment clean and free of leaks. Keep asphalt material free of contamination. Furnish storage tanks capable of keeping the Frictional Asphaltic Surface Preservation Treatment in uniform suspension and adequately mixing the asphalt, aggregate and additives.

5. CONSTRUCTION

- 5.1 **Adverse Weather Conditions.** Do not place mixture when, in the Engineer's opinion, general weather conditions are unsuitable. Meet the requirements for air and surface temperature shown below.
- 5.1.1 **Standard Temperature Limitations.** Apply mixture when air temperature is above 50°F and rising. Do not apply mixture when air temperature is 60°F and falling. In all cases, do not apply mixture when surface temperature is below 60°F.
- 5.1.2. **Cool Weather Night Air Temperature.** The Engineer reserves the right to review the **National Oceanic and Atmospheric Administration (NOAA)** weather forecast and determine if the nightly air temperature is suitable for mixture placement.
- 5.1.3. **Cold Weather Application.** When mixture application is allowed outside of the above temperature restrictions, the Engineer will approve the mixture and the air and surface temperatures for application. Apply mixture at air and surface temperatures as directed.
- 5.2. **Surface Preparation.** Remove existing raised pavement markers. Repair any damage incurred by removal as directed. Remove dirt, dust, or other harmful material before applying. When shown on the plans, remove vegetation and blade pavement edges.
- 5.3. **Application.** Apply the mixture when the air temperature is at or above 60°F, or above 50°F and rising. Measure the air temperature in the shade away from artificial heat. The Engineer will determine when weather conditions are suitable for application.
- 5.3.1 Distribute material by distributor at the following rates or as directed:
- First application: 1.0 to 1.5 lbs. per SY.
 - Second application: 1.0 to 1.5 lbs. per SY.
 - Total application after the second application: 2.5 lbs. per SY minimum.
- 5.3.2 Distribute material by seal machine at the following rates or as directed:
- Total application of a single application: 2.5 lbs. per SY minimum.
- 5.4. **Edges.** Adjust the shot width so operations do not encroach on traffic or interfere with the traffic control plan, as directed. Use paper or other approved material at the beginning and end of each shot to construct a

straight traverse joint. Unless otherwise approved, match longitudinal joints with the lane lines. The Engineer may require a string line if necessary, to keep the edge straight. Use sufficient pressure to flare the nozzles fully.

- 5.5. **Workmanship.** Immediately take corrective action if treatment material is exhibiting evidence of poor workmanship, delayed opening to traffic, or surface irregularities, including streaks, uncoated, and blotchy areas. The Engineer may allow placement to continue for no more than one day of production while taking appropriate action. Suspend application if the problem still exists after one day until the problem is corrected to the satisfaction of the Engineer.
- 5.6. **Opening to Traffic.** Open the treated surface to traffic when directed. Furnish and uniformly distribute clean, fine sand on the surface to blot the excess when an excessive quantity of mixture is applied. Maintain ingress and egress as directed by applying sand to freshly treated areas.

6. MEASUREMENT

Frictional Asphaltic Surface Preservation Treatment will be measured by the ton or by the square yard of the composite Frictional Asphaltic Surface Preservation Treatment mixture, which includes asphalt emulsion, aggregate, and additives. At the completion of the project, any unused Frictional Asphaltic Surface Preservation Treatment will be weighed back and deducted from the accepted Frictional Asphaltic Surface Preservation Treatment quantity delivered.

7. PAYMENT

The work performed, and materials furnished in accordance with this Item and measured as provided under "Measurement" will be paid for at the unit bid price per ton or square yard for "Frictional Asphaltic Surface Preservation Treatment." This price is full compensation for preparing the existing surface (including removing existing raised pavement markers); furnishing, hauling, preparing, and placing materials; and equipment, labor, tools, and incidentals.