

**Project Addendum 1**

(1 page, 5 attachments)

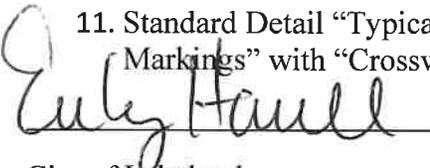
Project: FY22 Street Paving

Date: January 31, 2022

The listed corrections should be incorporated into the plans/specifications. All bidders are required to indicate on the outside of their proposal envelope the receipt of this information by giving the date and addenda number.

Description:

1. Bid Schedule, Item #16 Change F&I Speed Table (Concrete 24' x 24') to F&I Speed Table (Asphalt 24' x 24')
2. Bid Schedule, Item #17 Change F&I Raised Crosswalk (Asphalt 24'x24') to F&I Raised Crosswalk (Concrete 24'x24')
3. Section 01010 Summary of Work, Section Mill and Overlay, Replace "one and a half inches" with "milled two inches and two inches overlay placed".
4. Section 01010 Summary of Work, Section The Grove Traffic Calming Measures, Replace "All speed tables and crosswalks shall be Mix No. TDOT 411 E." with "All speed table shall be Mix No. TDOT 411 E."
5. Section 01010 Summary of Work, Section The Grove Traffic Calming Measures, Add "The raised crosswalk shall be concrete with red brick pattern as shown in detail."
6. Section 01650 Measurement and Payment Procedures, Part 2 Execution, 2.01 Item L, Add "temporary paint markings"
7. Section 01650 Measurement and Payment Procedures, Part 2 Execution, 2.01 Item M, Add "temporary paint markings"
8. Section 01650 Measurement and Payment Procedures, Part 2 Execution, 2.01 Item N, Add "temporary paint markings"
9. Section 01650 Measurement and Payment Procedures, Part 2 Execution, 2.01 Item Q, Replace "Furnish and Install Concrete Speed Tables" with "Furnish and Install Asphalt Speed Tables"
10. Section 01650 Measurement and Payment Procedures, Part 2 Execution, 2.01 Item Q, Replace "Furnish and Install Asphalt Raised Crosswalk" with "Furnish and Install Concrete Raised Crosswalk"
11. Standard Detail "Typical Raised Crosswalk", replaced "Standard Crosswalk Pavement Markings" with "Crosswalk to be colored red stamped with brick pattern"

  
City of Lakeland  
Emily Harrell, P.E.  
City Engineer

1/31/2022  
Date

**BID SCHEDULE  
FY2022 STREET PAVING**

BID DATE: \_\_\_\_\_

COMPANY NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

Contractor shall furnish and install items as shown on the Drawings or called for in the Specifications. All costs not included in the schedule that are necessary to provide a complete, functional project as depicted in the Drawings and Specifications are to be considered incidental and merged with costs of other related bid items.

LS = Lump Sum    R&R = Remove and Replace    LF = Linear Feet    F&I = Furnish and Install  
SY = Square Yard    CY = Cubic Yard    EA = Each    Ton = Ton    LB = Pounds

**Schedule A**

ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL COST
1	Cold Planing of Asphalt Pavement	SY	72,130		
2	F&I Select Backfill (Sand)	CY	4,584		
3	F&I Granular Base (LA610)	CY	2,292		
4	F&I Geotextile	SY	6,877		
5	F&I Tack Coat	TON	30		
6	F&I Asphalt Patch	CY	1,250		
7	F&I Asphaltic Concrete Pavement (411-E)	TON	7945		
8	Full Depth Reclamation	SY	2,685		
9	F&I Temporary Traffic Control	LS	1		
10	F&I Asphalt Binder (307-C)	TON	558		
11	R&R 6-30 Concrete Curb & Gutter	LF	9,059		
12	60 mil Thermoplastic Pavement Marking (4" Solid White Line)	LF	14,782		
13	60 mil Thermoplastic Pavement Marking (4" Double Yellow Line)	LF	7,394		
14	60 mil Thermoplastic 24" White Stop Bar	LF	70		
15	Material/ Density Testing	LF	1	\$2,000	\$2,000
16	Mobilization	EA	1		
17	F&I Speed Table - Asphalt (24' x 24')	EA	5		
18	F&I Raised Crosswalks – Concrete (24' x 24')	EA	1		
				<b>Total Bid Schedule A</b>	

**Total Base Bid :** \_\_\_\_\_

\_\_\_\_\_ Dollars (\$ \_\_\_\_\_).

## SECTION 01010

### SUMMARY OF WORK

A. Project Identification:

**FY2022 Street Paving**

B. Project Summary:

This project consists of mill and overlay in five (5) subdivisions, Cobb Road, Lakeland City Hall's parking lot and driveways, six traffic calming measures in The Grove as well as a Full Depth Reclamation of Pavement on Saskatoon Drive as depicted on the enclosed maps.

All base failures repairs and curb and gutter replacement shall be conducted prior to new asphalt being placed.

- Temporary traffic control measures shall be used during all phases of construction. All attempts shall be made to keep at least one lane of roadway open. In the event of a road closure, the Owner shall be notified within 48 hours of the impending work. A traffic control plan for each location shall be submitted to the City Engineer for approval prior to construction.
- The contractor is responsible for all utility locates in the area of work and for those that may be affected by the construction. Coordination with utility company may be required.
- All construction material shall be removed and properly disposed of in accordance with State and local regulations within the time limits of the project. Removal and hauling away of all construction debris including unsuitable soils shall be the responsibility of the Contractor.
- All pavement markings shall meet the current Manual on Uniform Traffic Control Devices (MUTCD) and Tennessee Department of Transportation (TDOT) Specification for pavement markings. All new pavement markings shall be thermoplastic pavement markings.
- Material/Density testing will be performed at the request of the Owner. Testing will be paid by invoice.

**Mill and Overlay:**

Canada Woods, Creekside Manor, Lakeland Heights, Stonebridge, Veranda Woods, City Hall Parking Lot, and Cobb Road

- All designated streets shall be milled two inches and a half inches (1.5") two inches overlay placed. Asphalt overlay shall be Mix No.1 TDOT 411.E surface course hot mix asphalt. A tack coat shall be applied to the milled surface prior to placement of the asphalt.
- Locations of street repairs will be marked by the City of Lakeland.
- In areas marked for repair, the existing asphalt pavement shall be removed within the marked area. Edges shall be trimmed to a straight vertical line and tacked. All loose or disturbed pavement and base material shall be removed and disposed of.
- Where soft soils are encountered, the area shall be over excavated a maximum of three (3) feet and backfilled with sand. If the soils are still unsatisfactory, a nonwoven geotextile shall be installed in the bottom of the excavation prior to backfilling.
- Asphalt base repair shall be two inches (2") Mix No.1 TDOT 411.E surface course hot mix asphalt placed on eight inches (8") of a granular base (LA610). Street repairs shall have a total of three inches (3") of asphalt. Asphalt shall be installed according to City of Lakeland and TDOT Specifications.

**Full Depth Reclamation of Pavement:**

Saskatoon Drive

- Contractor shall reclaim 12" deep and soil cement existing material with 10% cement by volume.
- Base asphalt shall be 2" compacted 307-C, in place, and shall meet all current City of Lakeland specifications. Surface asphalt shall be one and a half inches (1.5") of Mix No. 1 TDOT 411.E. A tack coat shall be applied to the milled surface prior to placement of asphalt.
- Final reclaimed roadbed should be clipped to a 2.0% crown.

### **Lakeland Public Works Building Driveway**

- Base asphalt shall be 3" compacted 307-C, in place, and shall meet all current City of Lakeland specifications. Surface asphalt shall be two and a half inches (2.5") of Mix No. 1 TDOT 411.E. A tack coat shall be applied to the milled surface prior to placement of asphalt.
- Loops must be installed prior to placement of asphalt.

### **The Grove Traffic Calming Measures**

- Install five speed tables and one raised crosswalk according to Lakeland specifications. All speed tables ~~and crosswalk~~ shall be Mix No. 1 TDOT 411 E. surface course hot mix asphalt. The raised crosswalk shall be concrete with red brick pattern as shown in detail.

### **C. Particular project requirements.**

1. Apply for, obtain, and pay for permits when required to perform the work.
2. Field-verify dimensions indicated on drawings (when applicable) before fabricating or ordering materials. Do not scale drawings.
3. Notify Owner of existing conditions differing from those indicated on the drawings. Verify the existence and location of underground utilities along the route of proposed work. Omission from, or inclusion of, locations on the drawings, is not to be considered as the nonexistence of, or the definite location of, existing underground utilities. Do not remove or alter existing utilities without prior written approval.
6. The Contract Documents are intended to provide the basis for proper completion of the work suitable for the intended use of the Owner. Anything not expressly set forth but which is reasonably implied or necessary for proper performance of the project shall be included.

7. The Provisions are written in the imperative mode. Except where specifically intended otherwise, the subject of all imperative statements is the Contractor. For example, "furnish..." means "Contractor shall furnish..."

END OF SECTION

## SECTION 01650

### MEASUREMENT AND PAYMENT PROCEDURES

#### PART 1 – Description.

All work completed under this Contract will be measured by the Engineering according to the bid items and to the construction drawings. Units of measurement and dimensions will be shown in these specifications.

#### 1.01 Payment

A. Progress payments will be processed in accordance with the following schedule.

<u>Cut-Off Date</u>	<u>Date of Submittal</u>
March 4, 2022	March 11, 2022
April 1, 2022	April 8, 2022
May 6, 2022	May 13, 2022
June 18, 2022	June 25, 2022
July 18, 2022	July 25, 2022
August 19, 2022	August 26, 2022
September 16, 2022	September 23, 2022
October 21, 2022	October 28, 2022
November 16, 2022	November 30, 2022

Submit pay requests to the City by the dates of submittal listed above.

- B. Owner will make progress payments as defined in Article 5 of the Agreement, on the forms provided by the Engineer.
- C. If the Contractor elects to enter into a joint account agreement, two (2) pay requests and vouchers must be submitted. One pay request and voucher for the appropriate progress payment amount, the other for the retained amount.

#### 1.02 Measurement of Quantities

Quantities shown on the bid schedule are estimated and are to be considered approximate. Actual constructed quantities will vary. The Contractor will be compensated only for those items and materials actually installed and approved as part of the project. No additional pay will be granted for items or materials not installed.

- A. Payment will be made for the work completed and stored materials less retained amounts in accordance with provisions of the contract documents.

B. Payment amounts will be based on the scheduled values and mutually agreed upon percentage of completion for each item.

### **1.03 Bid Item Descriptions**

The cost of all material and labor required to complete this project as specified and shown on the drawings, but not specifically included as a pay item, shall be included in the bid price of its related bid item. No extra pay shall be granted for items that are reasonably foreseen as necessary for the proper installation of an item.

## **PART 2 Execution**

### **2.01 Measurement and Payment of Bid Items**

#### **A. Cold Planing of Asphalt Pavement**

1. Measurement of this item shall be by the number of square yards (SY) of asphalt planed and removed. Measurement shall be made on the surface of the existing asphalt cut and removed. This item shall include equipment, materials and labor to perform cold planing and cutting disposal. Payment shall be made by the contract unit price per Square Yard (SY).

#### **B. Furnish and Install Select Backfill (Sand)**

1. Measurement of this item shall be by the number of cubic yards (CY) of select backfill furnished and installed in place and approved. Quantities shall be verified and paid by haul ticket. This item includes excavation, disposal of existing material, furnishing and installing granular backfill, and compaction. Payment shall be by the contract unit price per Cubic Yards (CY) in place.

#### **C. Furnish and Install Granular Base (LA610)**

1. Measurement of this item shall be by the number of cubic yards (CY) of granular base furnished and installed in place and approved. Quantities shall be verified and paid by haul ticket. This item includes excavation, removal and disposal of existing base, furnishing and installing granular base, and compaction. Payment shall be by the contract unit price per Cubic Yards (CY) in place.

#### **D. Furnish and Install Nonwoven Geotextile**

1. Measurement of this item shall be paid by square yard (SY) of nonwoven geotextile furnished and installed in place and approved. This item shall include furnishing and placement of geotextile in excavated areas. Payment shall be made by the contract unit price per Square Yard (SY) in place

#### **E. Furnish and Install Tack Coat**

1. Measurement of this item shall be by the number of tons (Tons) of tack coat furnished and installed in place and approved. Quantities shall be verified and paid by haul ticket. This item shall include furnishing and placement of tack coat at a rate of 0.10 gal/SY. Payment shall be made by the contract unit price per Ton (Ton) in place.

F. Furnish and Install Asphalt Patch

1. Measurement of this item shall be by the cubic yard (CY) of asphalt furnished, installed in place and approved. Measurement shall be made from the lines formed by the junction of new asphalt and old asphalt. Quantities shall be verified and paid by haul ticket. This item shall include furnishing and placement of new hot mix asphalt and compaction. Asphalt patch shall have a compacted thickness of no less than two inches (2") of hot mix asphalt pavement. Payment shall be by the contract unit price per Cubic Yard (CY) in place.

G. Furnish and Install Asphaltic Concrete Pavement (411-E)

1. Measurement of this item shall be by the tons (Ton) of hot-mix asphaltic concrete furnished and installed in place and approved. Measurements shall be made from the lines formed by the junction of new asphalt and old asphalt. Quantities shall be verified and paid by haul ticket. This item shall include furnishing and placement of new hot mix asphalt and compaction. New asphalt overlay shall have a compacted thickness of no less than two inches (2") of mill and overlay of asphalt pavement after compaction. Payment shall be by the contract unit price per Ton (Ton) in place.

H. Furnish and Install Full Depth Reclamation

1. Measurement of this item shall be by the square yard (SY) of asphalt pavement reclaimed. Measurement shall be made on the surface of the existing pavement reclaimed and furnished. This item shall include equipment, materials and labor to perform full depth reclamation of asphalt pavement. Payment shall be made by the contract unit price per Square Yard (SY).

I. Furnish and Install Temporary Traffic Control

1. Measurement of this item shall be paid by lump sum (LS) for temporary traffic control furnished and installed. Payment shall be consistent with the percentage of work completed at the time of the request for payment. The lump sum payment shall cover all of the Contractor's activities in meeting traffic control requirements for the project. Flagging, replacement of traffic control devices damaged or destroyed from any cause whatsoever, furnishing and installing cones, wands, portable flashers, any barricades and channelizing devices will be incidental to Traffic Control and no separate payment will be made for any item or activity necessary to comply with this specification. Payment shall be made by the contract unit price per Lump Sum (LS) of work completed.

J. Furnish and Install Asphalt Binder (307-C)

1. Measurement of this item shall be by the tons (Ton) of asphalt binder furnished and installed in place and approved. Measurements shall be made from the lines formed by the junction of new asphalt and old asphalt. Quantities shall be verified and paid by haul ticket. This item shall include furnishing and placement of new hot mix asphalt and compaction. New asphalt binder shall have a compacted thickness of no less than one and half inches (1.5") on asphalt pavement after compaction. Payment shall be by the contract unit price per Ton (Ton) in place.

K. Remove and Replace 6-30 Concrete Curb and Gutter

1. Measurement of this item shall be paid by lineal foot (LF) of 6-30 concrete curb and gutter constructed in place and approved. Measurement shall be made on the surface of the new curb and gutter from the lines formed by the junction of the new concrete and old concrete. This item shall include excavation, forming, concrete, and all other materials needed to perform work. Payment shall be made by the contract unit price per Lineal Foot (LF) in place and approved.

L. Furnish and Install 60 mil Thermoplastic 4" Solid White Line

1. Measurement of this item shall be paid by the linear feet (LF) of 60 mil thermoplastic 4" solid white line pavement marking furnished and installed. Measurements shall be made on the surface of the new pavement marking to the end. The item shall include thermoplastic material, glass beads, paint for temporary markings, equipment, and any other material needed to perform the work.

M. Furnish and Install 60 mil Thermoplastic 4" Double Yellow Line

1. Measurement of this item shall be paid by the linear feet (LF) of 60 mil thermoplastic 4" double yellow line furnished and installed. Measurements shall be made on the surface of the new pavement marking to the end. The item shall include thermoplastic material, glass beads, paint for temporary markings, equipment, and any other material needed to perform the work.

N. Furnish and Install 60 mil Thermoplastic 24" White Stop Bar

1. Measurement of this item shall be paid by the linear feet (LF) of 24" white stop bar thermoplastic marking furnished and installed. Measurements shall be made on the surface of the new pavement marking to the end. The item shall include thermoplastic material, glass beads, paint for temporary markings, equipment, and any other material needed to perform the work.

O.

P. Material/Density Testing

1. Measurement of this item shall be paid by lump sum (LS) for density testing. Contractor

performing testing shall be approved by the Owner prior to performing work. Payment shall be made by invoice from Geotechnical Engineer of actual testing performed. This item includes but is not limited to density testing. Payment shall be made by the contract unit price per Lump Sum (LS) of work completed.

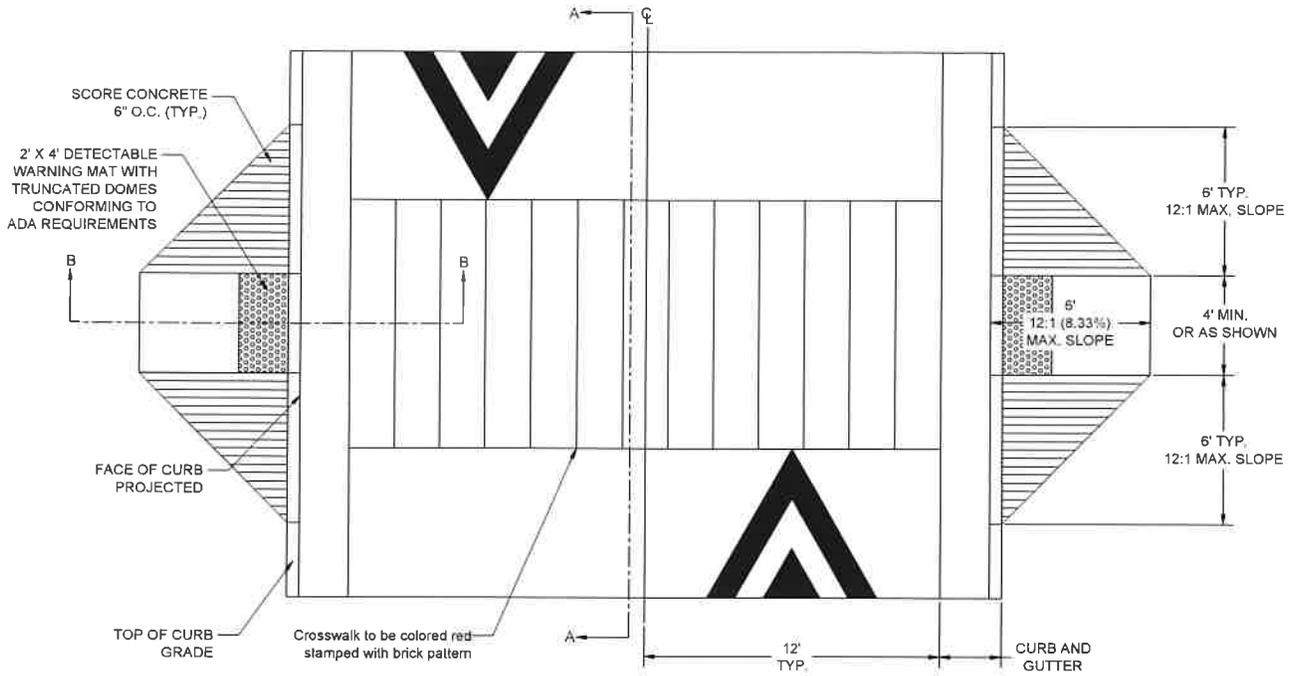
Q. Furnish and Install ~~Concrete~~ Asphalt Speed Table

1. Measurement of this item shall be paid by each (EA) ADA compliant ~~concrete~~ hot mix asphalt speed table furnished and installed in place and approved. This item shall include hot mix asphalt ~~concrete, rebar,~~ and all other materials needed to complete the work. Payment shall be made by the contract unit price per each (EA) speed table.

R. Furnish and Install Raised ~~Asphalt~~ Concrete Crosswalk

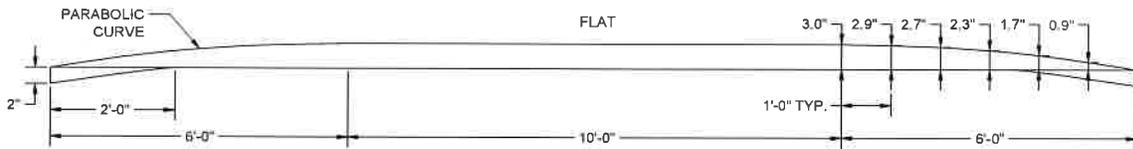
1. Measurement of this item shall be paid by each (EA) ADA compliant raised crosswalk furnished and installed in place and approved. This item shall include forming and concrete ~~asphalt and all other materials~~ needed to complete the work. Payment shall be made by the contract unit price per each (EA) speed table.

**END OF SECTION**



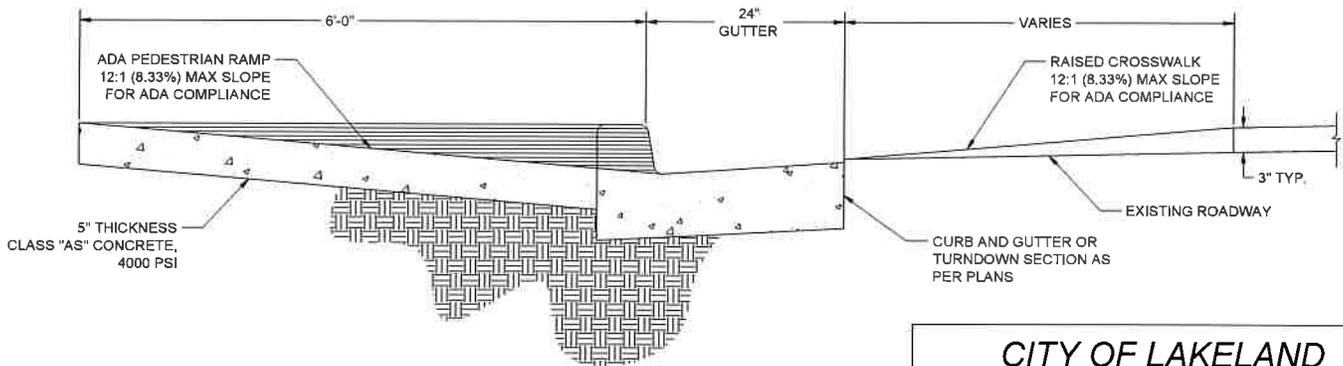
## PLAN VIEW

NOT TO SCALE



## SECTION A-A

NOT TO SCALE



## SECTION B-B

NOT TO SCALE

### NOTES:

1. ALL SIGNING AND STRIPING SHALL CONFORM TO THE LATEST EDITION OF THE MUTCD.
2. SEE 6-30 CURB AND GUTTER DETAILS FOR EXPANSION JOINTS INFORMATION.
3. KEEP MIN. 3" FROM CROWN OF EXISTING ROADWAY TO FLAT SECTION OF RAISED CROSSWALK.

CITY OF LAKELAND  
ENGINEERING DIVISION

## TYPICAL RAISED CROSSWALK DETAIL

REV.	DESCRIPTION	DATE
1	ORIGINAL ISSUE	10/2020