



Partners for a Better Quality of Life

April 14, 2022

Ms. Tracy Homfeld, P.E.  
Assistant Director of Engineering  
Collin County Engineering Department  
4690 Community Ave., Suite 200  
McKinney, TX 75071

Re: FM 2551 (FM 2514 to FM 2170) – Supplemental #4  
CP&Y Project No. COLC1201

Dear Ms. Homfeld:

Per previous discussions CP&Y, Inc. requests Supplemental No. 4 pertaining to Contract # 2012523-08-06. The purpose of this Supplemental is request additional fees for the following additional scope of services:

- **Additional pavement to match proposed work by others at West Lucas Road and its intersection with FM 2551.**
- **Additional pavement to accommodate future northbound FM 2551 thru lane at the FM 2170 intersection.**
- **Additional widening to include southbound FM 2551 left turn lane at the FM 2170 intersection.**
- **Coordination with Collin County and TxDOT related to the inclusion of additional plans for the City of Parker Waterline.**

We have attached a scope and fee document which adds to the original Exhibit A "Services to be Provided by the Engineer" and Exhibit B "Summary of Manhours". The total fee for Supplemental No. 4 is \$109,285.00.

We greatly appreciate your assistance concerning this matter. Should there be any questions or additional information needed, I can be reached at [AKLOCINSKI@cpvi.com](mailto:AKLOCINSKI@cpvi.com) or 214.638.0500.

Respectfully submitted,

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Andrea Klocinski, P.E.

Project Manager

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## **SUPPLEMENTAL #4 TO EXHIBIT A**

FM 2551 (from FM 2514 to FM 2170)  
Collin County

### **SERVICES TO BE PROVIDED BY THE ENGINEER**

The Engineer shall provide the necessary engineering and technical services for the preparation of plans, specifications and estimates (PS&E) for the reconstruction of FM 2551 from FM 2514 (Parker Road) to FM 2170 (Main Street) within Collin County. The project length along FM 2551 is approximately 3.4 miles.

The construction will include the widening of FM 2551 from an existing two-lane asphalt roadway to an ultimate six-lane concrete section with curb and gutter, enclosed storm sewers, raised median, and horizontal re-alignment. The re-alignment will eliminate the approximately 2200 ft. offset of FM 2551 at FM 2514 by connecting the two section of FM 2551 with an "S-curve", beginning approximately 760 ft. north of FM 2514 and ending approximately 320 ft. north of Curtis Drive.

The project will be prepared in conformance with TxDOT Dallas District requirements. The construction plan set shall contain the required drawings, details and applicable standards required to describe the grading, paving, drainage, culverts, signing, pavement marking, delineation, sequence of construction, and traffic control for this construction project.

The engineering work for this project will be divided into a number of tasks as outlined below. It is the intent of Exhibit A (TASK OUTLINE), in coordination with Exhibit B (Services to be provided by the County), to help clarify the scope of work.

### **TASK OUTLINE**

#### **A. DESIGN SERVICES**

##### **Roadway Design**

##### **Typical Sections**

- Revise Proposed Typical Section Sheets (FM 2551)
- Prepare new Proposed Typical Section Sheets (FM 2551, north of FM 2170)

##### **Roadway Plan and Profile**

- Revise Plan and Profile Sheets for FM 2551 to include Lucas Road widening to match proposed work by others.
- Revise Plan and Profile Sheets for FM 2551 to include future northbound thru lane at FM 2170.
  - Prepare new Plan and Profile Sheet for north of FM 2170 to include widening for southbound left turn lane.
- Revise Cross Street Plan and Profile Sheet for Bethany/Lucas Road
- Revise Intersection Layouts for Bethany/Lucas Road and for FM 2170.

### **Earthwork Cross Sections**

Revise and extend limits of final grading cross sections at 50' interval. Grading cross sections will include centerline/profile grade line elevation, pavement elevation at face of curb, subgrade break line elevations and offsets to proposed toe of slope and ROW limits.

### **Drainage**

#### **Storm Drain Design**

Perform field inventory of existing drainage structures to verify structure size and condition and channel characteristics along FM 2551 north of FM 2170.

Revise Interior Drainage Area Maps. Task includes determining drainage areas and calculating runoff to determining size and location of inlets.

Revise Hydraulic Data Sheets utilizing Geopak Drainage.

Revise Storm Sewer Plan & Profile Sheets at Lucas Road and at FM 2551 at FM 2170. Prepare new Storm Sewer Plan & Profile Sheet along FM 2551 north of FM 2170.

Perform hydraulic computations for the sizing and location of storm sewer lines and manholes. Utilize approved hydraulic software to verify adequacy of the proposed storm sewer lines.

Revise Lateral Profile Sheets.

### **Erosion Control Plans**

Revise Erosion Control Plans for three phases. Prepare additional plans along FM 2551 north of FM 2170.

### **Signing and Pavement Marking Layouts**

Revise Signing and Pavement Marking Sheets (FM 2551)

Prepare new Signing and Pavement Marking Sheet (FM 2551, north of FM 2170)

### **Traffic Signal Plans**

Revise Temporary Traffic Signal Plans at FM 2170.

Revise Traffic Signal Design and Layout sheet for signalized intersections at Bethany/ Lucas Road and at FM 2170.

Revise Phasing and Wiring Plans for signalized intersections at Bethany/ Lucas Road and at FM 2170.

Revise Traffic Signal Elevation Sheets.

### **Traffic Control Plans**

Revise TCP Narrative for Sequence of Construction Sheets. Include work north of FM 2170.

Revise TCP Typical Sections for each Phase. Prepare TCP Typical Sections for north of FM 2170.

Revise TCP Layouts. Assume three phases with multiple stages will be required. Prepare TCP Layouts for FM 2551 north of FM 2170.

**B. MISCELLANEOUS**

Include City of Parker Waterline Plans into plan set. Revise Index of Sheets. Waterline Plans to be provided to Engineer by County.



EXHIBIT B  
METHOD OF PAYMENT LUMP SUM

Phase	Description	Senior PM	Sr. Project Engineer	Structural Engineer	Jr. Project Engineer	EIT/Sr. Engg. Tech.	RPLS	Survey Crew	Utility Crew w/SUE & Truck	Field Observation Personnel	Admin	Total Hours	Total Engineering Fees
		\$215.00	\$175.00	\$200.00	\$135.00	\$105.00	\$150.00	\$150.00	\$235.00	\$110.00	\$90.00		
e	Traffic Signal Plans											-	\$ -
	Temporary Traffic Signal Plans	1.00	4.00		12.00	24.00						41.00	\$ 5,055.00
	Traffic Signal Layout Sheet	1.00	4.00		18.00	32.00						55.00	\$ 6,705.00
	Phasing and Wiring Plans		5.00		18.00	24.00						47.00	\$ 5,825.00
	Traffic Signal Elevation Sheet		1.00		4.00	8.00						13.00	\$ 1,555.00
	Traffic Signal Quantities and Summaries		1.00		8.00	12.00						21.00	\$ 2,515.00
f	Traffic Control Plans											-	\$ -
	TCP Narrative											-	\$ -
	TCP Typical Sections	1.00	1.00		4.00	8.00						14.00	\$ 1,770.00
	Traffic Control Plans		1.00		8.00	12.00						21.00	\$ 2,515.00
	TCP Quantities and Summaries		1.00		2.00	2.00						5.00	\$ 655.00
3	SB Left Turn Lane widening at FM 2170 (Assume New Sheets)												
a	Roadway Design											-	\$ -
	Typical Sections	1.00	4.00		8.00	12.00						25.00	\$ 3,255.00
	Roadway Plan & Profile	1.00	4.00		10.00	20.00						35.00	\$ 4,365.00
	Roadway Quantities and Summaries		-		-	-						-	\$ -
	Cross Sections		1.00		4.00	12.00						17.00	\$ 1,975.00
	Removal Plans		2.00		6.00	16.00						24.00	\$ 2,840.00
b	Storm Drain Design											-	\$ -
	Interior Drainage Area Maps		2.00		4.00	8.00						14.00	\$ 1,730.00
	Storm Sewer Hydraulic Data Sheets		2.00		4.00	8.00						14.00	\$ 1,730.00
	Storm Sewer Plan & Profiles	1.00	2.00		8.00	16.00						27.00	\$ 3,325.00
	Drainage Quantities and Summaries		-		-	-						-	\$ -
c	Erosion Control Plans											-	\$ -
	SW3P Layouts		2.00		12.00	16.00						30.00	\$ 3,650.00
	SW3P Quantities and Summaries		-		-	-						-	\$ -
d	Signing and Pavement Marking Layouts											-	\$ -
	Signing and Pavement Marking Layouts	1.00	2.00		8.00	16.00						27.00	\$ 3,325.00
	Signing and Pavement Marking Quantities and Summaries		1.00		2.00	2.00						5.00	\$ 655.00
	Small Sign Summary		-		-	-						-	\$ -
e	Traffic Signal Plans - all work included in Phase 1 above											-	\$ -
	Traffic Signal Layout Sheet											-	\$ -
	Phasing and Wiring Plans											-	\$ -
	Traffic Signal Elevation Sheet											-	\$ -
	Traffic Signal Quantities and Summaries											-	\$ -
f	Traffic Control Plans											-	\$ -
	TCP Narrative	1.00	1.00		4.00	4.00						10.00	\$ 1,350.00
	TCP Typical Sections	1.00	1.00		8.00	12.00						22.00	\$ 2,730.00
	Traffic Control Plans		4.00		16.00	24.00						44.00	\$ 5,380.00
	TCP Quantities and Summaries		-		-	-						-	\$ -
B	Incorporate City of Parker Waterline Plans	1.00	1.00		4.00	8.00						14.00	\$ 1,770.00
	HOURS SUB-TOTALS	16.00	83.00	-	286.00	502.00	-	-	-	-	-	887.00	
	FEES SUBTOTAL	\$ 3,440.00	\$ 14,525.00	\$ -	\$ 38,610.00	\$ 52,710.00	\$ -	\$ -	\$ -	\$ -	\$ -		\$ 109,285.00