

EXHIBIT A-1

SCOPE OF WORK
SUPPLEMENTAL AGREEMENT NO. 5
FOR

FM2551 RECONSTRUCTION
FROM FM544 TO PARKER ROAD
IN
COLLIN COUNTY, TEXAS

The original scope of work for engineering services, as contracted in July 2001, included surveying, design, preparation of plans, writing general notes, special provisions and special specifications, computing quantities and estimating costs for the widening and reconstruction of FM2551 from FM544 to Parker Road, including the bridge structure at Maxwell Creek. A supplemental agreement was approved in 2006 due to the three (3)-year suspension of the project as a result of the pending approval of Environmental Documents.

However, the design phase of the project was further delayed since 2006 due to the pending environmental issues. It is now anticipated that the FONSI will not be received until end of the year and the project design will be extended into 2010. Since the Supplemental Agreement No. 1 was approved in 2006, developments have occurred along the proposed route, portions of the roadway have been reconstructed and/or resurfaced, and an intersecting roadway east of FM 2551 at Betsey Lane was added. In addition, TxDOT has required a (3)-span bridge that was originally approved in 2004 to be revised to a single span type bridge. This has required substantial redesign of the bridge as well as relevant design elements such as retaining wall, roadway approach, drainage and phased construction.

These changes to the existing conditions, coupled with changes to TxDOT's requirements, have created the need to modify the existing design documents to incorporate these changes. As a result, we are requesting this supplemental agreement to our original contract in order to make these modifications. The following noted work items will constitute additional work items in accordance with the original agreement.

ADDITIONAL WORK ITEMS

I. RIGHT OF WAY (ROW)

A. Project Control Services

Since the original preparation of the ROW documents based on State Plane Grid coordinate system, TxDOT has made new requirement that all ROW maps be prepared based on TxDOT Virtual Reference Station system (VRS). Therefore, a field survey was conducted on the control points used to establish the original project and compare the relationship of the published values of these points with the TxDOT VRS values. The published vertical values with those found in the field were also compared. Utilizing the data found in the field, the ROW plan sheets were converted to the required TxDOT VRS coordinate system.

B. ROW Exhibit and Legal Description Services

Assist Halff Associates in preparing ROW maps for the area adjacent to the Murphy Municipal Complex. Combine ROW maps for this area with the remaining ROW maps for the FM 2551 project and prepare one entire set for approval by TxDOT.

II. COST OF WORK

Work was anticipated to be completed in mid 2007. With the delay due to the pending issue with environmental documentation, completing the design phase will likely extend into mid 2010. As a result, the Engineer is requesting a 10% increase in the remaining fee, for work yet to be completed, to compensate for the increase in labor rates over the three year period.

III. ENGINEERING REDESIGN

New improvements have occurred in the following areas since 2006:

- The intersection with Betsy Lane (East of FM 2551) – new crossing roadway
- The intersection with Betsy Lane (West of FM 2551) – new gas station
- Near Railroad Crossing – FM 2551 has been temporarily widened
- Along and adjacent to the new commercial complex near FM 544

Changes in the existing conditions along and adjacent to the proposed route as mentioned above and the change of bridge type as requested by TxDOT require revisions to the paving plans, bridge plans, retaining wall plans, drainage plans and phased construction plans.

SUMMARY

The Scope of Work items listed above constitute the currently known additional work items resulting from the delay of this project due to pending environmental issues. The attached Fee Summary (Exhibit C-1) outlines the cost of each element described above.

EXHIBIT C-1

FEE SUMMARY

ADDITIONAL WORK ITEMS

I. ROW Maps and Exhibits

A. Project Control Services

\$2,900.00

B. ROW Maps and Exhibits Services

\$960.00

II. Cost of Work

\$9,880.00

III. Engineering Redesign

\$58,350.00

SUBTOTAL OF REQUIRED ADDITIONAL WORK ITEMS

\$72,090.00

TOTAL ADDITIONAL LUMP SUM FEE

\$72,090.00

FOR ADDITIONAL WORK ITEMS

FM2551 - MANHOUR ESTIMATE FOR BASIC ENGINEERING SERVICES

Task	No. of Sheets	Associate in Charge	Project Manager	Design Engineer	EIT	Clerical	Total Hours	Hrs. per Sheet	Direct Labor	Overhead Cost	Total Cost	
		\$57.1	\$41.0	\$35.0	\$27.5	\$14.6						
<i>I. Right of Way</i>												
A. Project Control Service (Quote from BW2)			4	4		1	9		\$304.00	\$2,900.00	\$2,900.00	
B. ROW Map and Exhibit Services										\$653.60	\$960.00	
Subtotals			4	4		1	9		\$304.00	\$3,553.60	\$3,860.00	
<i>II. Cost of Work</i>	Remaining contract amount											
	Cost of labor adjustment (10%)									\$9,881.98		
Subtotals										\$9,881.98	\$9,880.00	
<i>III. Engineering Redesign</i>												
Re-design of Betsey & FM 2551 intersection and the area adjacent to the Municipal Complex (paving and drainage)	5	2	6	16	24		48	10	\$1,580.20	\$3,397.43		
Re-design of the bridge	29	4	16	142	252		414	14	\$12,784.40	\$27,486.46		
Re-design of the roadway approach adjacent to the bridge (paving and Drainage)	4	2	8	16	24		50	13	\$1,662.20	\$3,573.73		
Re-design of retaining walls adjacent to the bridge	10	2	4	16	24		46	5	\$1,498.20	\$3,221.13		
Re-design of traffic control plans (TCP)	4	2	4	8	16		30	8	\$998.20	\$2,146.13		
Subtotals	52	12	38	198	340		588		\$18,523.20	\$39,824.88	\$58,350.00	
Total Manhour Estimate for Basic Services	52	12	42	202	340		597		\$18,827.20	\$53,260.46	\$72,090.00	