AMENDMENT 1
AGREEMENT 16167
DB2/VM Database Administration

This Amendment to Agreement 16167, is made effective upon execution by and between Lake County, IL (hereinafter the "County") and The Fillmore Group, Inc., with principal offices at 8501 LaSalle Road, Suite 318, Towson, Maryland 21286 (hereinafter " The Fillmore Group "). The County and The Fillmore Group are referred to as the "Parties".

WHEREAS, the County is seeking a Consultant to provide services for the DB2/VM Database Administration service, and

WHEREAS, the parties have reached agreement to amend the terms of the Agreement as set forth herein, and

NOW, THEREFORE, in consideration of the forgoing facts, the mutual covenants and agreements contained herein and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Parties agree that the Agreement shall be amended as follows:

SECTION 2. SCOPE OF WORK

The existing DB2 Server for VM database is rapidly reaching its 64GB limit. This was accelerated by the Interest Enhancement application change implemented over the summer. Resources were diverted to:

- Analyzing systems-level alternatives to an archive to remove data from the production database (such as dropping indexes).
- Trying to understand the formal archive process performed annually by a since-departed LC employee. The most recent documentation located for this archive was from 2002. Given its inherent complexity and mystery, all parties concurred after much research and discussion that attempting such an archive would be time-consuming and error-prone.
- A mini-archive was conducted on the Finance data most impacted by the Interest Enhancement.

Differences in security schemes between the DB2 Server for VM and DB2 for LUW databases. This was coupled with the customization Lake County has implemented in CICS authentication. It took a lot of testing, debugging, and rework to get the legacy applications on z/VSE to run against the new database.

About 5% of the Cobol applications might have to modified because of customizations specific to DB2 Server for VM. We continue to consult with the IBM software development lab to find a work-around that will avoid the need for application modifications.

While the version of Query Management Facility (QMF) that runs on the mainframe functions against the new DB2 for LUW database, QMF for Windows v7.2 is out-of-service and unsupported. We will need to install new QMF for Workstation v11.1 software and migrate user objects such as queries and forms.

The remaining major milestones in the project are:

- Parallel Testing
- Performance Tuning
- Backup/Restore
- Disaster Recovery
- Production Cutover
- CRIMPROD/ARCHPROD Consolidation

Given the pace of Unit Testing – primarily conducted by LC – and the current utilization rate of the three consultants assigned by The Fillmore Group to this project (100%, 75%, and 50% respectively), I estimate that it will probably take through the end of May 2017 to achieve production cutover. Because this estimate is based on many factors outside of my control:

1. the ongoing pace of testing
2. cooperation by third-party vendors
3. problems that might be encountered and the resulting remediation

SECTION 4. AGREEMENT PRICE
Lake County shall make monthly payments to Consultant based upon actual hours worked within 30 days after receipt and approval of invoice. The total contract modification amount is $171,720 for the following resources:

Consultant	Hourly Rate	Estimated Hours	Extended
Frank Fillmore	$159	480	$76,320
Roger Midgette	$159	240	$38,160
Suresh Duggi	$159	360	$57,240
		TOTAL	**$171,720**

Total contract amount not to exceed $658,220.

Except for the provisions outlined above, the remainder of the contract shall remain in full force and effect.

THE FILLMORE GROUP   LAKE COUNTY, ILLINOIS

By: _____   By: _____

Name: _____   Name: _____

Title: _____   Title: _____

Date: _____   Date: _____