September 03, 2021

Commissioners Court Harris County, Texas

RE: Job No. 170154

Members of Commissioners Court:

Please approve the attached Order(s) authorizing the County Judge to execute the attached Third Amendment to the Agreement(s) for the following:

Description: Consulting services for the implementation of IBM property management

software

Vendor(s): Gilbane Building Company (Inventory and Preventative Maintenance)

Amount: \$3,231,037 previously approved funds for the term 08/28/2018 - 08/27/2021

544,500 additional funds for the extended term 08/28/2021 - 08/27/2022

\$3,775,537

Reviewed By: • Harris County Purchasing • Facilities & Property Maintenance

The Third Amendment increases funding for ongoing support and maintenance of mechanical, electrical and plumbing (MEP) assessment data. Purchase order(s) will be issued upon Commissioners Court approval.

Sincerely,

DeWight Dopslauf Purchasing Agent

Dehlsto Poper

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Attachment(s) cc: Vendor(s)

THIRD AMENDMENT TO THE AGREEMENT BETWEEN HARRIS COUNTY AND GILBANE BUILDING COMPANY

THE STATE OF TEXAS

§

COUNTY OF HARRIS §

This Amendment to the Agreement into by and between Harris County (the "County"), a body corporate and politic under the laws of the State of Texas, acting by and through Harris County Facilities and Property Management (the "Department" or "FPM"), and Gilbane Building Company ("Contractor"). The County and Contractor are referred to herein collectively as the "Parties" and individually as a "Party."

Recitals

On August 28, 2018, the County entered into an agreement with Gilbane Building Company to provide consulting services for building and mechanical, electric and plumbing equipment assessments and surveys on buildings throughout the County ("Services"), for a term beginning on Commissioners Court approval and remaining in full force and effect for twelve (12) consecutive months with the option of four additional one-year renewal terms (the "Master Agreement").

On January 29, 2019, the Parties amended the Master Agreement for the first time to add Seventy-Three (73) Precinct buildings to the Services ("First Amendment").

On July 9, 2019, the Parties amended the Master Agreement for the second time to add additional Services and to add funding for the additional Services ("Second Amendment").

The Parties now desire to amend the Master Agreement for the third time to add additional Services and to add funding for the additional Services

Contractor warrants and represents that it is willing and capable of providing the additional Services.

Terms

I.

The Master Agreement is hereby amended for ongoing support/maintenance of MEP Assessment data in TRIRIGA as described in further detail in the Statement of Work attached hereto as Exhibit A.

II.

Having previously certified funds in the amount of Three Million Two Hundred Thirty-One Thousand Thirty-Seven and 35/Dollars (\$3,231,037.35), the Parties hereby amend the Master Agreement to provide Five Hundred Forty-Four Thousand Five Hundred and No/100 Dollars (\$544,500.00) in additional funds bringing the total amount of funds certified as available under the Master Agreement to Three Million Seven Hundred Seventy-Five Thousand Five Hundred

Thirty-Seven and 35/100 Dollars (\$3,775,537.35).

Contractor understands and agrees, said understanding and agreement also being of the absolute essence of this Third Amendment, that the total maximum compensation that Contractor may become entitled to for the Services performed under this Third Amendment, shall not under any conditions, circumstances, or interpretations thereof exceed the sum of Five Hundred Forty-Four Thousand Five Hundred and No/100 Dollars (\$544,500.00). Contractor understands and agrees, said understanding also being of the absolute essence of this Second Amendment, that the maximum amount Contractor may become entitled to under the Master Agreement shall not exceed the sum of Three Million Seven Hundred Seventy-Five Thousand Five Hundred Thirty-Seven and 35/100 Dollars (\$3,775,537.35). Notwithstanding anything to the contrary, or that may be construed to the contrary, the County's liability under the terms and provisions of this Third Amendment is limited to said sum; and when all the funds so certified are expended, Contractor's sole and exclusive remedy shall be to terminate this Third Amendment.

III.

All other terms and provisions of the Master Agreement, First Amendment, and Second Amendment shall remain in full force and effect as originally written.

IV.

It is expressly understood and agreed that the Master Agreement, First Amendment, and Second Amendment is incorporated herein by reference. In the event of any conflict between the terms and provisions of this Amendment, or any portion thereof, and the terms and provisions of any other part or portion of the Master Agreement, First Amendment, and Second Amendment this Third Amendment shall control.

V.

Execution, Multiple Counterparts: This Third Amendment may be executed in several counterparts. Each counterpart is deemed an original. All counterparts together constitute one and the same instrument. Each Party warrants that the undersigned is a duly authorized representative with the power to execute this Third Amendment.

[Execution Page Follows]

GILBANE BUILDING COMPANY

HARRIS COUNTY

COUNTY JUDGE

By: By: LINA HILDAGO

LINA HILDAGO

Title: Director, Gilbane FM Services

Date: July 2, 2021

APPROVED AS TO FORM: CHRISTIAN D. MENEFEE COUNTY ATTORNEY

By: Philip Berzins
Philip Berzins

Assistant County Attorney C.A. File 21GEN1464

EXHIBIT A

Statement of Work

(follows behind)



April 22, 2021

Rosanette Bosco,
Deputy Director
Harris County Facilities and Property Management
1310 Prairie Street, Suite 1330
Houston, Texas 770022
Rosanette.Bosco@fpm.hctx.net
(713) 824-5615

Subject: Ongoing Support/Maintenance of MEP Assessment data in TRIRIGA

Dear Ms. Bosco,

Per our recent discussion concerning future FPM renovations, construction and potential acquisitions, along with the desire to maintain the integrity and accuracy of the TRIRIGA Space/Asset inventories, Gilbane FM Services submits this proposal to Harris County FPM to perform the following services on an as needed basis when any of the aforementioned changes occur:

- Interior Finish Survey and Assessment (Floors, Walls, Ceiling)
- Interior Space Data/360 Image prep
- Interior Space Data/Image loading to TRIRIGA
- MEP Equipment Survey and Condition Assessment
- MEP Equipment Data/Image collection and prep
- MEP Equipment Data/Image loading to TRIRIGA
- MEP Equipment Data replacement cost/loading to TRIRIGA
- Development of MEP Equipment Preventive Maintenance program in TRIRIGA
- Scheduling of MEP Equipment PM Work Tasks in TRIRIGA

Gilbane FM Services is looking forward to the opportunity to continue working with Harris County to maintain and further expand their TRIRIGA location, space, interior finish, MEP asset and preventive maintenance data to greatly enhance the functionality and benefit of their existing TRIRIGA Integrated Workplace Management software system.

The ongoing maintenance, updates and addition of Locations/Spaces and MEP Assets, on renovation projects, new constructions, and/or building acquisitions will allow Harris County to have a comprehensive and accurate inventory, as well as a real time condition assessment of their building interior finishes by room and their MEP equipment, along with a quality Preventive Maintenance program all loaded into the Harris County TRIRIGA software system.

Harris County will be able to continue the use of the TRIRIGA database to develop Capital budget forecasts/needs and prioritize projects based on up to date assessment data and equipment useful life. This will allow the County to better plan and manage the repair and replacement of assets essential to the operation of their buildings in support of the FPM organization's mission.

This proposal is a continuation of the original Gilbane FM Services scope, where these same services were provided for the existing 11M GSF portfolio of Harris County Facilities.



Please direct any questions regarding this proposal to my contact information below.

Sincerely,

Don Conover

Don Conover
Director – Gilbane FM Services
Gilbane Building Company
dconover@gilbaneco.com
908-421-3259 m



Background

Gilbane FM Services has been providing building and equipment assessment services, data capture/prep/load services, and TRIRIGA consulting services for many years. The Gilbane FM Services team consists of certified TRIRIGA consultants and well as Data/Document collection specialists.

Our TRIRIGA consultants have been supporting IBM/TRIRIGA clients for over ten years. Our IBM/TRIRIGA clients have included Harris County, LA County, County of San Diego, Riverside County, ExxonMobil, Sanofi-Aventis, BAE Systems, Air Products, Educational Testing Services, California Department of Corrections to name a few.

Our Data/Document collection specialists have successfully completed over 100 projects for both Gilbane and non-Gilbane Construction clients. Some of these clients have included all the above IBM/TRIRIGA clients, plus non-TRIRIGA customers such as The Architect of the Capitol, Verizon, Red Cross, Ohio State University, Schreiber Foods, Kerry Foods, Maricopa County, Northwestern Mutual, Katy ISD, Lamar ISD, Exxon Mobil, Johns Hopkins, Metro Health, College of Marin, San Jose Airport, BB&T Bank, Pfizer, etc.

Example client project profile sheets can be provided upon request.

Scope of Work - Buildings/Floors/Spaces

The Interior Finish and MEP Equipment Assessment project scope includes all of the Floors and Spaces associated with the Renovation, Construction or Acquisition projects assign to Gilbane FM Services by the Harris County Project manager. Each project will have a unique physical boundary, defined by a narrative or set of drawings for the project (these will be provided by Harris County FPM) – from which a project Gross Square footage can be ascertained. All project pricing will be based on the Gross Square Footage for the building type (see Master Cost Schedule – Appendix A).

Scope of Work - Equipment

The MEP equipment types included in this project scope of work/physical boundary, includes the following equipment categories and types. Additional equipment can be included as needed based on the maintenance needs of each building. Significant changes in the equipment list will result in a scope of work change order to cover the additional cost.



Equipment Category Plumbing Plumbing Plumbing Plumbing Plumbing Plumbing	Equipment Type Air Compressor	Equipment Category	Equipment Type	Equipment Category	Equipment Type
Planting Planting Planting	Triangle of the Company of the Compa	HVAC	AHU	Kinchen Equip	Blast Chiller
Plumbing Plumbing	Air Driver	HVAC	Az Separator	Kinchen Equip	Blender
Plumbing	Backflow Preventer	HVAC	BAS	Kitchen Equip	Bulk CO2
March Co.	City Water Booster Pump	HVAC	BAS Panels	Extehen Equip	Clear Broiler
- ETURNORISE	Denking Fountain	HVAC	Boder	Kitchen Equip	Coffre Tea Brewer
Plumbing	Electric Water Heater	HVAC	Boder Esh Fan	Kitchen Equip	Combi Oven
Phenbing	Gan Metre	HVAC	Beder Pump	Kitchen Equip	Condensate Hood
Phasbing	Gan Water Heater	HVAC	Chilled Water Pump	Kätchen Equip	Convection Over
Plumbing	Grease Trap	HVAC	Chilles	Katchen Equip	Dish Dispensers
Pheolong	Hot Water Record Pump	HVAC	Condensate Fump	Kitchen Equip	Dishwasher
Murobing	Hydroxic Prosecutic Tank	HVAC	Cooking Coll Pump	Krishen Equip	Exhaust Hood
Plumbing	Domestic HW Pump	HVAC	Cooling Tower	Krichen Equep	Espesso Mariene
Plumbing	Domestic Water Booster Purop	HVAC	Cooling Tower Fan	Kitchen Equip	Food Cutter
Planbing	Denking Water Circ Pump	HVAC	Cooling Tower Sand Filter	Kinchen Equap	Food Processor
Plumbing	Irrigation Peop	HVAC	CRAC Unit	Kirchen Equip	Frast Yop
Plumbing	Mining Valve	HVAC	CVBox	Kitchen Equip	Cindidle
Plumbing	RO System	RVAC	Dryer Booster Fan	Kitchen Equip	Rearth Oven
Plumbing	RO Pump	HVAC	Edward Fan	Katchen Equip	Heated Base
Physising	RO Filters	HVAC	Espansion Tank (PF)	Kitchen Equip	Heated Cart
Phenbing	BO Chem Turk	HVAC	Fan Powered Terrinal Unit	Kinchen Equip	Hose Reel
Phenbing	Band Oil Trap	HVAC	FCU	Kinchen Equip	Hot Water Heater
Plumbing	Sewage Ejector Pizep	HVAC	Fm Tube Radiator	Katchen Equip	See Machine
Monteng	Storage Tanks	HVAC	Fin Tube Radiator Pump	Kinchen Equip	Soduction Warmen
Humbing	Statep Pump	HVAC	Fire Smoke Damper	Kachen Tquip	Juce Machine
Plumbing	Water Meter	HVAC	Fuel Oil Pump	Kitchen Equip	Kettle
Plumbing	Water Softenes	HVAC	Air valves	Katchen Equip	Microwave
		HVAC	Fuel Tank:	Etitchen Equip	Maer
quipment Category		HVAC	Glycol Fill Tank	Kinchen Equip	Mobile Heated Cabaset
Electrical	ATS	HVAC	Heat Exchanger	Kitchen Equip	Mobile Refing Cubinet
Electrical	Transfer Switch (numsel)	HVAC	Heating Water Pump	Katchen Equip	Paella Grill
Electrical	MCC	HVAC	Kitchen Edurust Fan	Kitchen Equip	Pot Pan Machine
Electrical	Switch	HVAC	Radiant Ceiling Panel	Kitchen Equip	Rack Conveyor Dishwa
Becmal	Bus Duct	HVAC	Exheat Coll	Katchen Equip	Range
Electrical	Bus Duct Switch	HVAC	Smake Exhaust Fan	Kinchen Equip	Reaction Frenzes
Electrical	Bus Tap Bex	HVAC	Todet Eshaust Fan	Kachen Equip	Reaction Heated Cab
Electrical	Distribution Fanel	HVAC	Fireplace Comb Fam	Kitchen Equip	Reaction Refrigerator
Electrical	Energ Switchbound	HVAC	Auto Air Danper	Kitchen Equip	Refrig Banquet Cart
Electrical	Entergency Generator	HVAC	Stainvell Press Fan	Katchen Equip	Refrig Counter
Electrical Electrical	Load Bank Main Switchboard	RVAC	Steam Trap	Kitchen Equip	Refrig Merchandiser
Electrical	Power Panal	HVAC	Snow Malt Pump	Kitchen Equip	Reftig Milk Case
550000000	5.50 to 1. 60 to 1.		Supply Fan (Outside Air)	Kitchen Equip	Refrigerated Base
Electrical Electrical	Substanon	HVAC	Unit Heater Electric Unit Heater Gas CUH	Kitzhen Equip	Refrigerated Prep Table
Electrical	Switchgear Transformer	HVAC	VAV	Kitchen Equip	Solad Doptay Salad Spinner
Electrical	1.70	avac	YAX	Kitchen Equip	Skillet
Electrical	UPS VFD	Equipment Category	Toutenant Tour	Krichen Equip	Slicer
Electrical	Heat Trace	Macellaneous	Equipment Type Dock Leveler	- conservation and a second	Hill Add day or an array
Electrical	Lighting Control Panel	Miscellaneous	Elevator	Kitchen Equip Kitchen Equip	Soda Dispenser Soft Serve Machine
Laterness	Lighting Condoi Panes	Macrianeous	Escalator	Kitchen Equip	Toaster
quipment Category	Tandamant Tree	Miscellaneous	Overhead Doors	Kitchen Equip	TO SECURE OF THE PARTY OF THE P
Fire Life Sufety	Ense Shower Evewash	Mindellaneous	Skyfold Door	Kitchen Equip	Topping Pump Tray Conveyor
	Fire Alam System	Macsimeous	Air Curtain	Kitzhen Equip	Triple Deck Oven
Fire Life Safety	Fire Alam Panel	Micrimous	Tumstilei	Kitchen Equip	UnderCounter Refrig
Fire Life Sufery	Fire Emergusher	Nacellaneous	Ges Powered Fireplace	Salchen Equip	Walkin Cooler
Fire Life Safety	Fire Pump	Miscellaneous	White Noise Amp	Kitchen Equip	Walkin Freezer
Fire Life Safety	Fire Suppression System	Miscellaneous	White Name Equation	Kitchen Equip	Waste Collector
Fire Life Suffety	Jackey Pung	Macrimeous	Hononotal Lifeline System	Kitchen Equip	Wok Range
Fire Life Safety	Stocke Curtains	Macellaneous	Automatic Deere	success related	- Se mange
Fun Life Safety	Wet Pipe Sprinkler System	Mascellaneous	Building Maint Units Ext		
THE PRE-OWERS.	A she aliment assum	Miscellawous	Davic System		
quipment Category	Equipment Type	Miscellaneous	Building Maint Unit Int		
specialty Equipment		Miscellaneous	PowerLet Chairs		
	Medical Vacuum Pump	Miscellaneous	Water Feature		



Scope of Work - Data and Documents

Gilbane FMS consultants will collect, develop, prep, load all the space, interior finish (Ceiling, Walls, Floors), asset and preventive maintenance data necessary to make the Harris County TRIRIGA system fully functional regarding Interior Finish Management, Asset Management and Preventive Maintenance. Harris County will be able to know the location, condition and remaining useful life of MEP equipment assets across the portfolio of buildings we survey. In addition, the condition of finished in each room will be available for review/action. The County will be able to develop Interior Finish and MEP equipment repair and replacement plans and budgets. In addition, Harris County will have a thorough Preventive Maintenance program for the MEP equipment assets surveyed. Their TRIRIGA system will generate the required preventive maintenance work tasks on a scheduled basis. The performance of these PM work tasks will ensure that Harris County is doing all they can to extend the life and optimal operation of their MEP equipment.

The Space, Finish and MEP equipment data will be collected by reviewing available drawings, documentation and thru field surveys. The specific data values to be collected or developed will include:

Location Data

Building Bldg ID, Bldg Name, Street Address		
Floor Bldg ID, Floor ID, Floor Name		
Space/Room Bldg ID, Floor ID, Space/Room #, Space/Room Name, Space Class/T		
Interior Finish	Bldg ID, Floor ID, Space/Room, Room Surface (floor, wall, ceiling), Condition Value	

MEP Equipment Data

Asset Spec	Spec ID, Asset Name, Asset Class/Type, Manufacturer, Model #		
Tagged Asset	Asset ID, Serial #, Location (Bldg-Flr-Room), Condition Code, Year Installed, Standard Useful Life, Estimated Remaining Useful Life (calculated), Estimated Replacement Cost (if available)		

Preventive Maintenance Data

Job Plan	Job Plan ID, Name, Description, Type, Responsible Org, Service Provider, associated Assets/Locations/Systems, associated PM Schedules			
PM Schedule	PM Schedule ID, Name, Description, Request Class, Service Plan, Type, Frequency, Service Levels, associated Work Procedures			
PM Work Procedure	Work Procedure ID, Name, Description, Procedure Step #, Procedure Step Description, Labor Class, Estimated Hrs, associated Parts or Materials			
Planned Work Task	Task ID, Name Description, Type, Priority, Request Class, Service Class, Assigned Org, associated Assets/Locations/Systems, Planned Start Date, Planned End Date, Planned Hours, Planned Materials, associated Work Procedures			



Documents/Digital Images

Documents	Related drawings as provided		
Digital Images	360 Image of space, Image of Asset		

Scope of Work - Assumptions

The following assumptions were made, after discussions with Harris County, in developing the cost schedule for performing this work:

- 1. The consultants will need remote access to the upgraded Harris County TRIRIGA system for data loading, data development, PM schedule generation, document loading, etc.
- 2. Harris County will provide Gilbane FMS access to any available Architectural/MEP drawings (in AutoCAD or PDF format) that provides the appropriate building/floor/area/room numbers to locate the MEP equipment in TRIRIGA.
- 3. Harris County will provide Gilbane FMS with any useful MEP equipment data currently residing in spreadsheets or other databases as a starting point for the MEP equipment survey and data collection.
- 4. Harris County will provide Gilbane FMS access to any available electronic documentation for the existing MEP equipment (examples: O&M manuals, Spec Sheets, Commissioning reports, etc.).
- 5. Harris County will provide access to the Buildings and Rooms as-needed.
- 6. Harris County will provide personnel when needed (hospital or jail environments, etc.).
- 7. Harris County will provide any necessary ladders or other devices required to access the MEP equipment.
- 8. The consultants will use accurate/acceptable Building, Floor, Area, Room information from the existing TRIRIGA system.
- 9. The consultants will use accurate/acceptable Asset information from the existing TRIRIGA system.
- 10. Barcoding of the MEP assets is not required or included in this proposal.
- 11. Equipment subcomponents will not be specified separately in TRIRIGA (ex: a motor to an AHU).
- 12. The scope of work will pertain to the typical equipment list identified. Upon request, other equipment types may be identified and documented during the project, but this may require a change to the scope of work.
- 13. The consultants will field verify and collect nameplate data on the MEP equipment where it can be safely accessed.
- 14. If MEP equipment cannot be safely accessed by the consultants, the Harris County Maintenance team can provided the nameplate data and digital image of the installed equipment for loading to the new TRIRIGA system.
- 15. The consultants will take digital images of the installed MEP equipment where possible and include in the upload to the TRIRIGA equipment data record.
- 16. The consultants will include spare parts or consumable material data where applicable and available for the equipment types identified (example: AHU filter type and size; belt size and spec, etc.).
- 17. The consultants will use the industry standard Useful Life by equipment type as part of the remaining useful life calculations.
- 18. The remaining useful life of the equipment will be based on the standard useful life, the estimated equipment installation date and the assessed equipment condition.
- 19. The equipment installation date will be the date the building was constructed or newer date if the equipment has been replaced and the newer date can be derived from the nameplate data or other equipment record information.
- 20. Harris County maintenance staff will be required to help estimate the equipment installation dates.
- 21. The equipment condition will be assigned a New, Good, Fair, Bad, or Damaged/Inoperable rating which will correlate to a reduction % against the remaining useful life.
- 22. The consultants will review all the MEP equipment data and documentation to be loaded to the new Harris County TRIRIGA system with selected Harris County Facility staff for approval prior to loading to the TRIRIGA system.
- 23. If possible, the MEP equipment data and documents will be loaded to the new Harris County TRIRIGA test/dev system for final acceptance before transferring the data to the production system.
- 24. The consultants will work closely with the Harris County Facility staff when adding to or modifying any existing TRIRIGA data standards, such as List fields or Class Code fields (Equipment Class, Class Type, etc.).
- 25. The consultants will work closely with the Harris County Facility staff when developing any new or modifying any existing naming standards (Asset Spec Name, Asset Tag ID's, PM Task Names, etc.).
- 26. The consultants will work closely with the Harris County Facility staff when developing PM Job Plans, PM Tasks, PM Procedures and PM Schedules for the MEP equipment.
- 27. The consultants will load Electronic documents and Digital Images for the MEP equipment into the TRIRIGA Document Manager library.



28. The consultants will associate the appropriate Electronic documents and Digital Images of the MEP equipment with the appropriate TRIRIGA data record (Asset Spec, Tagged Asset, or PM Task record).

Performance of Work - Interior Finish Assessment

The Interior Finish Assessment (Floor, Walls, Ceiling) is needed for planning and managing repairs and/or replacement based on our survey assessment to be performed and using the TRIRIGA application to manage the assessment data, images, and work tasks associated with the assessment.

The resources performing the Interior Finish field surveys will be familiar with visually evaluating the condition of the finishes. These resources will reference any available drawings or documentation to determine the finish types for each room/space in the buildings. They will perform a full room by room visual inspection and they will take a 360 pictures of the room.

TRIRIGA certified resources will be used to develop, prepare and load the Interior Finish data and digital images into the Harris County TRIRIGA system. These resources will be the same as the TRIRIGA resources being used to develop, prepare, and load the MEP asset data and documents.

The following work tasks will be performed as part of the Interior Finish Assessment:

- ☐ Interior Finish types and condition capture by room
- 360 Digital pictures of the room
- · Space type for each room
- Prep and load the data and digital pictures to TRIRIGA

Performance of Work – MEP Equipment Assessment

Gilbane FM Services will provide qualified TRIRIGA consultants to execute the MEP Assessment portion of this project. These resources will require the support of Harris County staff for access and if-required escort through the various buildings where the MEP equipment is being assessed. These specialists will work closely with the Harris County FPM team to use any accurate data currently available and to get access to any existing electronic documentation on the MEP assets be assessed. The data and documents they collect, develop and prep will be passed over to certified TRIRIGA consultants for loading into the Harris County TRIRIGA system.

The certified TRIRIGA consultants will work as-needed and generally remotely to support this project. They will need remote access to the TRIRIGA system where the new space, asset and preventive maintenance data will be loaded. They will use the existing naming conventions established in the original Assessment project to provide data collection templates with controlled values and define the preventive maintenance guidelines and master calendar schedules.

Once the field data is collected, the certified TRIRIGA consultants will evaluate data quality and review all data with Harris County prior to loading to their TRIRIGA system. After the Location and Asset data is loaded to their system, the TRIRIGA consultants will again review the data in TRIRIGA with the Harris County FPM team to ensure that it was loaded properly.

Similarly, the TRIRIGA consultants will load electronic MEP equipment documents (O&M manuals, Spec sheets, etc.) that are made available by Harris County FPM team. Additionally, 360 digital images of Interior Spaces and standard images of accessible MEP equipment will be taken, loaded to TRIRIGA and associated to the Asset records created in TRIRIGA. This provides an excellent visual of the existing equipment and its current conditions for future reference by the Harris County FPM team.



The certified TRIRIGA consultants will then develop the Preventive Maintenance data (Job Plans, Schedules, Work Procedures, Parts, etc.) in the TRIRIGA system. After the PM data is reviewed with the Harris County FPM team, the TRIRIGA consultants will then generate the initial Planned PM Work Tasks.

Although much of their work can be performed remotely, the TRIRIGA consultants will come on site as-needed to support the successful loading of data/documents, training sessions, and key meetings with the Harris County team.

Work Tasks and Deliverables

Gilbane FMS consultants will perform all the work required to provide Harris County Facilities and Property Management with a fully loaded and functioning TRIRIGA Operations module for each new project and/or building assigned. This includes a full MEP equipment asset inventory, remaining useful life estimates, preventive maintenance program, auto-generating PM work tasks, and associations with appropriate electronic documents and digital images for the MEP equipment assets.

When complete, the Harris County TRIRIGA system will be able to generate various Capital Replacement Plan reports for the newly added facility.

The work tasks and deliverables include:

- 1. Project Kickoff meeting.
- 2. Prepare Data Collection templates to utilize Harris County data standards, classifications, lists, etc.
- 3. Gather, develop and prep the required Location information (property, building, floor, area, rooms, etc.).
- 4. Gather, develop and assess the interior finish data of building spaces (carpet and paint).
- 5. Create digital images of existing interior spaces, and upload to TRIRIGA space records.
- 6. Gather, develop prep the required Asset information (asset setup, asset specs, tagged asset, spares).
- 7. Gather and prep available MEP equipment electronic documents (O&M manuals, Spec Sheets, etc.).
- 8. Create appropriate digital images of existing MEP equipment.
- 9. Review and get approval for all data and documents to be loaded into the TRIRIGA system.
- 10. Load all Location and Asset data and documents into TRIRIGA.
- 11. Review and verify data and document loading with Harris County.
- 12. Provide a data load summary document showing all Location and Asset data/documents loaded.
- 13. Develop and load all required Preventive Maintenance data into TRIRIGA.
- 14. Develop and schedule Preventive Maintenance work tasks in TRIRIGA.
- 15. Review and verify the Preventive Maintenance data loaded and scheduled in the TRIRIGA System.
- 16. Provide a data load summary document showing all Preventive Maintenance data/documents loaded.
- 17. Provide Project Management support services for this project, including periodic status reports and calls.
- 18. Provide Executive Management support for proper resourcing and problem resolution.



Work Start and Schedule

Since projects will be awarded on an as-needed basis, we should be able to mobilize within 2-4 weeks of notification of an upcoming project.

Invoicing:

Invoices will be submitted monthly to Harris County based on the estimated % complete of the scheduled services and actual expenses incurred.

Invoices will be sent to the designated Harris County project leader for review and approval.

Gilbane requests that all approved invoices be paid net 30 days upon approval of invoices received.

Any discrepancies or concerns associated with any invoices submitted can be resolved by either the Gilbane FMS Project Manager or Project Executive.

Master Cost Schedule

Below is a master cost schedule for providing the proposed Space/Interior Finish and MEP Equipment Assessment services on a gross square foot by building type basis. This cost per GSF includes all labor and expenses, and includes two cost categories - Existing Buildings and New/Renovated Buildings (Construction drawings available)

The various costs per GSF reflect the estimated amount of MEP equipment to be included in a building of that building type. For example, Warehouses are not expected to have the same amount of MEP equipment as an Office or Forensic Lab. It also reflects the variation of room finishes found in a building.

The cost per GSF also reflects the accessibility of working in a building of each building type. For example, we know by experience that working in a Hospital or Jail environment requires schedule coordination, after hours work and escorts to perform the work. The higher cost per GSF reflects those difficulties.



Appendix A – Unitized Cost by Building Type

Harris County - Interior Finish and MEP Equipment Assessment Master Cost Schedule by Building Type

Code	Building Type	Description	Existing/GSF	New/GSF
O1A	Office/Admin	Office/Admin Building with Std Elec Simple or No AC, Simple Heat (Rad)	\$0.16	\$0.14
O1B	Office/Admin	Office/Admin Building with Std Elect, Simple or No AC, Simple Heat (Rad), with Café	\$0.19	\$0.16
O2A	Office/Admin	Office/Admin Building with Std Elec, Modern Ac/Heat	\$0.28	\$0.24
O2B	Office/Admin	Office/Admin Building with Std Elec, Modern Ac/Heat, with Café	\$0.31	\$0.27
ОЗА	Office/Admin	Office/Admin Building with Std Elec, Complex Ac/Heat	\$0.42	\$0.36
ОЗВ	Office/Admin	Office/Admin Building with Std Elec, Complex Ac/Heat, with Café	\$0.44	\$0.39
D1A	Detention	Detention Center/Jail (restricted access and mobility - escort required)	\$0.47	\$0.41
E1A	Police/Sheriff/Fire Rescue	Dedicated Use (Police/Sheriff Station, Firehouse/Ambulance/Emergency Response	\$0.28	\$0.24
M1A	Medical Facility	County Medical Clinics	\$0.32	\$0.28
W1A	Warehouse/Storage	Warehouse/Storage type building (>80%)	\$0.09	\$0.08
L1A	Library	Library with Std Elec, Simple MEP	\$0.18	\$0.15
L2A	Library	Library with Std Elec, Modern MEP	\$0.28	\$0.24
F1A	CUP/Fac Support	Central Plant, Facilities Support Buildings	\$0.27	\$0.23
P1A	Parking Garage	Parking Deck/Garage	\$0.05	\$0.05
H1A	Hospital	Hospital - Complex AC/Heat, Med Gas/Support, JCAHO Compliance	\$0.53	\$0.46
PL1	Space Polylining (CAD)	Polylining space with CAD drawings	\$0.02	\$0.018
PL2	Space Polylining (PDF)	Polylining space with PDF drawings	\$0.0225	\$0.02
PL3	Space Polylining (no DWGs)	Field measurement/draw background, polyline space	\$0.075	N/A

Proposed Cost

Since it is hard to predict the quantity and type of building audit/assessments that will be requested, we are estimating an average of 5% churn annually, or approximately 550K gsf per year over a three year period (total 1.65M GSF), using an average cost of \$.33/GSF, we are proposing a 3 year contract with a NTX price of \$544,500.00 (\$181,500.00/year)

Projects will be released by Harris County FPM on an as needed basis, with a cost estimated by using the total project GSF and the Building Type-Cost/GSF in the Appendix A table above.

ORDER OF COMMISSIONERS COURT Authorizing Amendment to Agreement with Gilbane Building Company

	The Co	ommissioners C	Court of Harris C	ounty, Tex	as, met	in regular se	ession at its regular
term	at the	Harris County		_		•	ouston, Texas, on
			, with all men	ibers presei	nt exce	pt	
							·
	A quor	rum was present	. Among other b	ousiness, the	e follov	ving was tran	sacted:
OF	RDER AU	UTHORIZING	EXECUTION O	F AN AME	ENDMI	ENT TO THE	E AGREEMENT
	BE.	ΓWEEN HARR	IS COUNTY AN	ND GILBA	NE BU	ILDING CO	MPANY
	Comm	issioner			introdu	aced an orde	er and moved that
Comr	nissioner	rs Court adopt t	he order. Comm	issioner			seconded the
							the order, prevailed
	e followii	-	,			•	
-							
				Yes	No	Abstain	
		Judge Lina Hic	lalgo				
		Comm. Rodne	y Ellis				
		Comm. Adrian	Garcia				
		Comm. Tom S	. Ramsey, P.E.				
		Comm. R. Jack	• •			П	

The County Judge thereupon announced that the motion had duly and lawfully carried and that the order had been duly and lawfully adopted. The order adopted follows:

IT IS ORDERED that:

- 1. The Harris County Judge is authorized to execute on behalf of Harris County an amendment to an agreement with Gilbane Building Company to add additional Services and funding. The Master Agreement and Amendments are incorporated herein by reference and made a part of this order for all intents and purposes as thought set out in full word for word.
- 2. All Harris County officials and employees are authorized to do any and all things necessary or convenient to accomplish the purposes of this order.