SERVICES AUTHORIZATION #II ENGINEERING SERVICES AGREEMENT

THIS SERVICES AUTHORIZATION is made and entered into this	day of
, 2016, by and between the City of Orlando, Flor	r <mark>ida,</mark> a
municipal corporation existing under the laws of the State of Florida (CITY), and	RTM
Engineering Consultants, LLC, doing business locally at 925 South Semoran Boulevard	, Suite
100, Winter Park, Florida 32792 (ENGINEER).	

WHEREAS, the CITY and ENGINEER have an existing agreement for professional engineering and related services (AGREEMENT) dated October 2, 2014 for the Iron Bridge RWRF 480V Improvements Project (Project); and

WHEREAS, the Agreement was previously amended on July 29, 2015 ("Amendment I"); and

WHEREAS, the CITY and the ENGINEER wish to further amend the AGREEMENT as set forth herein to memorialize their understanding for the ENGINEER's additional professional services for the Project;

NOW, THEREFORE, in consideration of the mutual promises and covenants contained herein and given one to the other, the sufficiency of which is hereby acknowledged, the parties agree as follows:

I. SCOPE OF WORK

The scope of work has been agreed to by the parties, and is attached hereto and incorporated herein by reference, as Appendix I.

II. FEE

The not-to-exceed fee of \$151,769.24 has been agreed to by the parties, as set forth on Appendix I.

III. TERM

All work performed pursuant to this SERVICES AUTHORIZATION shall be completed by the end of business eight (8) weeks after issuance of Notice to Proceed by the CITY. It is also agreed that the CITY shall have an option for extension of this SERVICES AUTHORIZATION, as necessary to complete the present scope of services (APPENDIX I) or to provide additional services.

IV. ENTIRE AGREEMENT

This SERVICES AUTHORIZATION supersedes all previous authorizations, agreements, or representations, either verbal or written, heretofore in effect between the CITY and the ENGINEER that may have concerned the matters covered herein, except that this SERVICES AUTHORIZATION shall in no way supersede or amend the AGREEMENT or other authorizations except as specifically provided herein. No additions, alterations, or variations to the terms of this SERVICES AUTHORIZATION shall be valid, nor can the provisions of this SERVICES AUTHORIZATION be waived by either party, unless such additions, alterations, or waivers are expressly set forth in writing in a document duly executed by the parties. ENGINEER acknowledges and agrees that any proposals or proposed agreements from subconsultants attached to this SERVICES AUTHORIZATION are attached solely to reflect the scopes of work to be performed and the fees to be **SERVICES** executing this such subconsultants. By AUTHORIZATION, the CITY does not become a party thereto or bound by the terms thereof.

IN WITNESS WHEREOF, the parties hereto have executed this SERVICES AUTHORIZATION on the day and year first written above.

City of Orlando, Florida



August 22, 2016

Robert J. Rutter, P.E.
Project Manager II
Capital Improvements & Infrastructure Division
Public Works Department

RE: Additional Services Fee Proposal for:

ELECTRICAL ENGINEERING DESIGN AND CONSTRUCTION ADMINISTRATION SERVICES FOR 480 VOLT IMPROVEMENTS AT THE IRON BRIDGE REGIONAL WATER RECLAMATION FACILITY PROJECT NUMBER 6282 – POST 90% DESIGN ADDITIONS

Dear Mr. Rutter,

Please find attached the additional services proposal for the subject project. Included within this proposal are the following

Exhibit-I Narrative on additional services
 Exhibit-II Man-Hour and Fee Estimate

Exhibit-III Revised Schedule

• ATTACHMENT A Subconsultant Proposals

If there are any questions regarding the proposal, please do not hesitate to call me. Sincerely,

(Signature)

Mitesh K. Smart, President



August 22, 2016

Robert J. Rutter, P.E. Project Manager II Capital Improvements & Infrastructure Division Public Works Department

RE: Additional Services Fee Proposal for:

ELECTRICAL ENGINEERING DESIGN AND CONSTRUCTION ADMINISTRATION SERVICES FOR 480 VOLT IMPROVEMENTS AT THE IRON BRIDGE REGIONAL WATER RECLAMATION FACILITY PROJECT NUMBER 6282 – POST 90% DESIGN ADDITIONS

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If there are any questions regarding the proposal, please do not hesitate to call me. Sincerely,

(Signature)

Mitesh K. Smart, President

Below is a list of additional scope of work for each area as added to TASK-4 of the original scope.

Task 4a - ADMINISTRATON BUILDING (Area 1)

- Replace/upgrade existing service transformer pad for east transformer.
- Due the large array of existing encased conduits in the ground, the new electrical room was relocated. New pathways for the conduits to the new transformers were also coordinated with electrical engineering team. The longer conduits routes to the transformers required civil profiles to delineate to the bidding contractors the pathway for the new duct banks around the existing encased duct banks.
- Electrical room required architectural modifications/ reorientation to accommodate electrical changes.

Task 4b - MASTER PUMP STATION (Area 2)

• An alternative based upon review comments from owner which allows him to replace existing switchboard entirely with new M-T-T-M switchgear as required. This alternative will be similar to other buildings, while existing switchboard along with one transformer and existing generator can serve the building while new switchgear is being installed, commissioned and connected to all branch circuits. This effort is an extra scope resulting out of review comments to satisfy owner's needs for continued uninterrupted operation.

Task 4c - DEEP BED FILTERS (Area 4)

 Due to length of the new underground feeds from Area #9, profiles for the conduit are required to be added to ensure conflict resolution with any other underground utilities or encasements.

Task 4d- BARDENPHO - PHASE-3 (Area 6)

 Replace/ upgrade existing south service transformers with new 1500 kva transformer. (ADDED BY JOHN GUNTNER DURING POST MEETING SITE WALK)

Task 4e- MAINTENANCE BUILDING (Area 7)

- Replace/ upgrade existing (2) 500 kva service transformers with new 750 kva transformers
- New electrical gear had to relocated to an empty office opposite to existing Mechanical and Electrical room per owner's request.
- Electrical room required to be expanded to accommodate new gear into existing breaker room. This required new fire wall construction around electrical room and also remodeling of breaker room.

Task 4f- BARDENPHO BLOWER BUILDING (Area 8)

- Each half of the current switchboard cannot support the process during an outage to the other half unless Pump C is repowered from the other bus.
- In order to satisfy owner's needs for continued uninterrupted operation, a temporary switchboard had to be added along with temp feeders for 50% of the equipment in order to shut down existing switchboard for a longer period required for its replacement in phases.
- This also required work to be carried out in 4 phases resulting in a number of additional sheets to show work for each phase clearly.

<u>Task 4g- POST TREATMENT AREA (Chlorine, SO2, Non potable water) (Area 9)</u>

- This Building requires total remodeling such as new wall liners on inside, new roof, new roof drain piping, site drainage, Site pavement improvements.
- Design changes are required including closing of existing openings on roof, additional curbs, overhead door, relocation of ladder and upgrades, large areas of repairs and upgrades to the floor due to removal of pumps or abandoned water pipes, or fire shutter

 Due to length of the new underground feeds from Area #9 to the SO2 Building, Area #4, and Area #13, underground profiles are required to be added to ensure conflict resolution with any other underground utilities or encasements.

Task 4h - SOLIDS HANDLING (Area 10)

- Remodel of existing electrical room No. 2 is required to accommodate new switchgear and four new ATS.
- Refeed of power from the new switchgear to existing electrical gear in room #1, 2 & 3 and remote south building via two existing 400A NMCC switchboards is required.
- Structural Support Design for overhead conduits is required.
- Architectural modifications to electrical room #2 to make it suitable for new main electrical switchgear installation is required.
- Due to the length of the new 12.47KVA underground feed from the
 existing transformers to the new transformers, continued to the new
 switch gear room, underground profiles for the conduits are required
 to be added to ensure conflict resolution with any other underground
 utilities or encasements.

Task 4i - RECLAIM PUMP STATION (Area 13)

This building is a new building to the scope of work.

- This scope includes to replace/ upgrade existing (2) service transformers with new (2) 3000 kva transformers.
- A portable generator connection is required be located close to the main roadway. A manual transfer switch connected to this feeder shall be located within the electrical room/area.
- Due to length of the new underground feeds from Area #9, profiles for the conduit area required to be added to ensure conflict resolution with any other underground utilities or encasements.

Task 4j - CLARIFICATION-RAS-WAS BUILDING (Area 14)

This building is a new building to the scope of work

- This scope includes to replace/ upgrade existing service transformers with new 750 kva transformers.
- A portable generator connection is required to be located close to the main roadway. A manual transfer switch connected to this feeder shall be located within the electrical room/area.

Task 4k - Probable Cost Estimate Modifications

 Modify Probable Cost Estimate due to all changes in the above mentioned tasks. All estimates, and the Final Opinion of Probable Construction Costs, will be provided in the format of the Bid Items. Any contingency percentages added are to be included within those (bid) items, not as separate lines. The Final Opinion of Probable Construction Costs will be signed and sealed and compared against the bids received as part of the evaluation of bids received.

DELIVERABLES

Below is a list of the original negotiated deliverables to be included for TASK-4:

n Time to the first of the firs	마이트를 다고 있다. 전기를 보고 있다. 이 상황이다.			
Task-4 - 100%	Bound Half Size Drawings	18x24	100	1
	Unbound Half Size Drawings	18x24	100	1
	Bound Full Size Drawings	24x36	100	1
	Unbound Full Size Drawings	24x36	100	1
	Bound Spec Book	81/2x11 black	200	. 1
	Unbound Spec Book	81/2x11 black	200	11
	Drawings CD (acad/PDF)	CD	1	1
	SPEC CD (Word/PDF)	CD	1	1
	Full Size Drawings - Permitting	24x36	100	6
	Spec Book - Permitting	81/2x11 black	200	6
	Drawings/Spec CD (PDF) - Permitting	CD	2	1

FEE SUMMARY

The following is a summary of the proposed fees for each subtask. See Exhibit II for the basis of these fees.

Labor Rates	Total Cost
Labor Natios	
TASKS	
4.0 - 100% Design	
Task 4a - Administration Building Changes	\$19,578.35
Task 4b - Master Pump Station Changes	\$12,009.25
Task 4c - Deep Bed Filters Building Changes	\$11,729.03
Task 4d - Bardepho Phase 3 Building Changes	\$6,470.75
Task 4e - Maintenance Building Changes	\$13,947,43
Task 4f - Bardenpho Blower Building Changes	\$23,944.25
Task 4g - Post Treatment Area Changes	\$21,397.23
Task 4h - Solids Handling Building Changes	\$21,792.47
Task 4i - Reclaim Pump Station Changes	\$9,300.23
Task 4j - Clarification RAS/WAS Changes	\$6,369.00
Task 4k - Modifications to Probable Cost Estimate	\$5,231.26
Total - NOT TO EXCEED:	\$151,769.24

Exhibit II: HOURLY FEE ESTIMATE/ CITY OF ORLANDO Project Name:

Iron Bridge 480V Improvements - POST 90% Additional Services

Name of Firm: RTM Engineering Consultants, LLC

												ď	Subconsultant Cost				
***************************************	Prolec	Prolect Manager	Senior Electrical Engineer	cal Engineer	Electrical Engineer	ngheer	Mechanical Engineer		Total Hours	Raw labor	Labor Cost	MIM	MCG	POQ.	Total Subs	Subs 10%	Total Cost
Labor Kates	*	\$55.00	\$55.00	8	\$32.00	8	\$32.00				2.75	(arch)	(1502)	(civil/struct)			
TASKS	Man Hrs	Cost	Man Hrs	Cost	Man Hrs	Coest	Man Hrs	Cost									
.0 - 100% Design																	
Task 4a - Administration Building Changes	£	\$605	91	\$380	42	\$1,344	10	\$320	79	\$3,149	\$6,659.75	\$6,837.75		\$2,880,5\$	00'926'6\$	\$992.60	\$19,578.35
Task 4b - Master Pump Station Changes	44	\$835	54	\$1,320	99	\$2,112			101	\$4,367	\$12,009.25						\$12,009.25
Task 4c - Deep Bed Piters Building Changes	12	\$660	20	\$1,100	48	\$1,535			80	\$3,296	\$9,064,00			\$2,422.75	\$2,422.75	\$242.28	\$11,729.03
Task 4d - Bardepho Phase 3 Building Changes	6	\$495	41	\$770	*	\$1,088			25	\$2,353	\$6,470.75						\$6,470.75
Task 4e - Maintenance Bullding Changes		\$495	4	\$770	34	\$1,088			57	\$2,353	\$6,470.75	\$6,796,98			\$6,796,98	\$679.70	\$13,947.43
Task 4f - Bardenpho Blower Building Changes	8	\$1,815	25	\$2,880	128	\$4,032			211	\$8,707	\$23,944.25						\$23,944.25
Task 4g - Post Treatment Area Changes	16	\$880	82	\$1,430	æ	\$1,984			104	\$4,294	\$11,808.50	\$6,544.53		\$2,172.50	\$8,717.03	\$871.70	\$21,397.23
Task 4h - Solids Handling Bullding Changes	92	066\$	OK.	\$1,650	22	\$2,304	30	\$960	150	\$5,904	\$16,236,00	\$1,833.84		\$3,217,50	\$5,051.34	\$505.13	\$21,782.47
Task 4i - Reclaim Pump Station Changes	^	\$385	12	0998	28	\$836	10	\$320	65	52,261	\$6,217.75			\$2,802.25	\$2,802.25	\$280.23	\$9,300.23
Task 4) - Clarification RASIWAS Changes		\$440	12	\$660	28	\$896	10	\$320	88	\$2,316	\$6,369,00				·		\$6,369.00
Taak 4k - Modifications to Probable Cost Estimate													\$4,755.69		\$4,755.69	\$475.57	\$5,231.26
Total - NOT TO EXCEED:	140	\$7,700.90	220	\$12,100.00	543	\$17,280.00	8	\$1,920.00	096	\$39,000.00	\$107,250.00	\$22,013.10	\$4,755.69	\$13,703,25	\$40,472.04	\$4,047.20	\$151,769.24



Exhibit-III

Date:	August 22, 2017
Project Name:	Iron Bridge – 480V Improvements

REVISED SCHEDULE

Phase	Duration
	Weeks after NTP
	(Notice to Proceed)
100% Design + Permit Submit	2-weeks
City Review + Permitting	8-weeks
Bidding + Contractor Selection	8-weeks

ATTACHMENTS:

Please refer to the following attachments for more clarifications:

Attachment A – Subconsultant Proposals

If there are any questions regarding the proposal, please do not hesitate to call me,

Sincerely,

(Signature)

Mitesh K. Smart, Principal



ATTACHMENT A SUBCONSULTANT PROPOSALS



MLM-MARTIN ARCHITECTS, INC.

Mr. Mitesh Smart, PE RTM Engineering Consultants 925 S. Semoran Blvd, Suite 100 Winter Park, FL 32792 July 21, 2016

Sent: Via E-Mail

Re: City of Orlando Iron Bridge North-480 Volt Improvements,
Additional Services for POST 90% DESIGN ADDITIONAL WORK

General Scope Description:

As part of our Architectural Sub-Consultant Services under RTM Engineering Consultants Contract with the City of Orlando we are submitting this additional services scope and fee proposal for your review. Our scope includes Architectural Services for the design of modifications to the 90% submittal drawings to reflect changes to the scope to accommodate additional owner requested changes

Scope description by Task:

Task 4a - ADMINISTRATON BUILDING (Area 1)

• Electrical room required architectural modifications/ reorientation to accommodate electrical changes.

Task 4e- MAINTENANCE BUILDING (Area 7)

 Electrical room required to be expanded to accommodate new gear into existing breaker room. This required new fire wall construction around electrical room and also remodeling of breaker room.

Task 4g- POST TREATMENT AREA (Chlorine, SO2, Non potable water) (Area 9)

- This Building requires total remodeling such as new wall liners on inside, new roof, new roof drain piping, site drainage, Site pavement improvements.
- Design changes are required including closing of existing openings on roof, additional curbs, overhead door, relocation of ladder and upgrades, large areas of repairs and upgrades to the floor due to removal of pumps or abandoned water pipes, or fire shutter

Task 4h - SOLIDS HANDLING (Area 10)

 Architectural modifications to electrical room #2 to make it suitable for new main electrical switchgear installation is required.

Fee Schedule: NOT TO EXCEED

4.0 - 100% Design	
Task 4a - Administration Bullding Changes	\$6,837.75
Task 4e - Maintenance Building Changes	\$6,796.98
Task 4g - Post Treatment Area Changes	\$6,544.53
Task 4h - Solids Handling Building Changes	\$1,833.84
Total	\$22,013.10

MWBE Participation:

MLM-Martin Architects, Inc. is a City of Orlando Certified MBE Architectural Firm. Sincerely,

Miguel L. Martin, A.I.A.

668 N Orlando Avenue, Suite 107, Maitland, Florida 32751
Phone 407 897 6764, Fax 407 894 1338,
mmartin@mlm-martin.com www.mlm-martin.com License No. AA C002208

Exhibit II: HOURLY FEE ESTIMATE/ CITY OF ORLANDO

Project Name:

Name of Firm:

Iron Bridge 480V Improvements - POST 90% Additional Services

MLM- Martin Architects Inc.

Not to Exceed

21-Jul-16

	Projec	Project Manager	Senior Architect	chitect	Architect	tect	Designer	ner	Admin	뒤	Total Hours	Raw labor	Labor Cost	Total Cost
Labor Rates	J.	\$46.75	\$46.75	75	\$38.15	.15	\$28.85	92	\$16,50	50			2.70	
TASKS	Man Hrs	Cost	Man Hrs	Cost	Man Hrs	Cost	Man Hrs	Cost	Man Hrs	Cost				
4.0 - 100% Design												-		
Task 4a - Administration Building Changes	10	\$468	8	\$374	40	\$1,526			10	\$165	88	\$2,533	\$6,837.75	\$6,837.75
Task 4e - Maintenance Building Changes	12	\$561	10	\$468	36	\$1,373			7	\$116	65	\$2,517	\$6,796.98	\$6,796.98
Task 4g - Post Treatment Area Changes	10	\$468	10	\$468	36	\$1,373			7	\$116	SS	\$2,424	\$6,544,53	\$6,544.53
Task 4h . Solids Handling Building Changes	4	\$187	4	\$187	8	\$305					16	\$679	\$1,833.84	\$1,833.84
		•												
Total	æ	\$1,683,00	32	\$1,496.00	120	\$4,578.00			·	\$396.00	212	\$8,153,00	\$22,013.10	\$22,013.10



Consultants

PH: 407.898.6872 FX: 407.898.3778 www.daoconsultants.com

July 21, 2016

TO: Mr. Mitesh Smart, PE

RTM Engineering Consultants

FROM: Solange Dao, PE

RE: Iron Bridge North 480V Improvements

Additional Services for Expansion of Civil Scope

Dear Mitesh

In our design of the civil site and structural elements of the project, the scope of our services was expanded beyond the scope description updated on 3/31/16. The following is a list of expanded scope per building:

SCOPE OF ADDITIONAL SERVICES

Task 4a - Administration Bldg (Area #1)

Due the large array of existing encased conduits in the ground, the new electrical room was relocated. New pathways for the conduits to the new transformers were also coordinated with electrical engineering team. The longer conduits routes to the transformers required civil profiles to delineate to the bidding contractors the pathway for the new duct banks around the existing encased duct banks.

Task 4c - Deep Bed Filters Bldg (Area #4)

Due to length of the new underground feeds from Area #9, profiles for the conduit were added to ensure conflict resolution with any other underground utilities or encasements.

Task 4g - Post Treatment Area (Area #9)

Due to length of the new underground feeds from Area #9 to the S02 Building, Area #4, and Area #13, underground profiles were added to ensure conflict resolution with any other underground utilities or encasements.

Task 4h - Solids Handling Bldg (Area #10)

Due to length of the new 12.47KVA underground feed from the existing transformers to the new transformers, continued to the new switch gear room, underground profiles for the conduits were added to ensure conflict resolution with any other underground utilities or encasements.

Task 4i - Reclaim Pump Station Bldg (Area #13)

Due to length of the new underground feeds from Area #9, profiles for the conduit were added to ensure conflict resolution with any other underground utilities or encasements.

FEE SCHEDULE

The following is a list of additional fees by task. All fees are ${\color{red} {\bf NOT~TO~EXCEED:}}$

Task 4.0 -100% Design	
Task 4a - Admin Building	\$3,088.25
Task 4c - Deep Bed Filters Bidg	\$2,422.75
Task 4g - Post Treatment Area	\$2,172.50
Task 4h - Solids Handling Building	\$3,217.50
Task 4I - Reclaim Pump Station Bidg	\$2,802.25
TOTAL	\$13,703.25

Exhibit II: FEE ESTIMATE/ CITY OF ORLANDO

Project Name:

Name of Firm: Dao Consultants, Inc.

iron Bridge 480V Improvements - ADD SERVICE#3 Request

NOT TO EXCEED

	Project	Project Manager	Senior Engineer	gineer	Engineer	Jee Jee	Field Rep/ Designer	Jesigner	Admin	iāl	Total Hours	Rawlabor	Labor Cost	Total Cost
Labor Rates	\$\$	\$52,00	\$45.00	8	\$39,00	9	\$32.00	8	\$15.00	8			2.75	
TASKS	Wan Hrs	Cost	Man Hrs	Cost	Man Hrs	Cost	Man Hrs	Cost	Man Hrs	Cost				
Task 4.0 -100% Design														
Task 4a - Admin Building	4	\$208.00	vs.	\$225.00	ro.	\$195.00	15	\$480.00	1	\$15.00	30	1,123.00	\$3,088,25	\$3,088.25
Task 4c - Deep Bed Filters Bldg	e	\$156.00	4	\$180,00	ç	\$195.00	10	\$320.00	2	\$30.00	24	881.00	\$2,422.75	\$2,422.75
Task 4g - Post Treatment Area	8	\$104.00	4	\$180.00	4	\$156.00	10	\$320,00	2	\$30.00	22	790.00	\$2,172.50	\$2,172,50
Task 4h - Solids Handling Building	3	\$156,00	9	\$270,00	9	\$234.00	15	\$480.00	2	\$30,00	32	1,170.00	\$3,217.50	\$3,217.50
Task 4i - Reclaim Pump Station Bidg	2	\$104.00	g	\$225.00	5	\$195,00	15	\$480.00	1	\$15.00	28	1,019,00	\$2,802,25	\$2,802.25
TOTAL	14	\$728.00	54	\$1,080,00	22	\$975.00	92	\$2,080.00	8	\$120.00	136	\$4,983.00	\$13,703.25	\$13,703.25



PLANNING | ENVIRONMENTAL | ENGINEERING: TRANSPORTATION | AVIATION | INFRASTRUCTURE

Professional Services Proposal & Agreement

Client Information:

Mr. Mitesh K. Smart, P.E.

(hereinafter called "client")

RTM Engineering Consultants

925 S. Semoran Blvd., Suite 100

Winter Park, FL 32792

Date:

Aug 23, 2016

Project Name:

City of Orlando - Iron Bridge

Additional Services for Cost Estimating – 100% Design Level

Project Description:

Task 4.3 - Incorporate scope additions into the 100% design level cost

estimate for the project.

(New task 4k)

Fee Schedule:

Total Not to Exceed: \$4755.69

See attached detail

Yours truly,

Monty Gettys, President

Montgomery Consulting Group, Inc.

Tel: 407-539-7030, ext. 15; Email: Monty.Gettys@mcgi-us.com

Exhibit II: FEE ESTIMATE/ CITY OF ORLANDO

Project Name:

Iron Bridge 480V Improvements

Name of Firm: Montgomery Consulting Group, Inc.

Not to exceed

Date 8/23/2016

	Project	Project Manager*	Senior Cost Estimator	t Estimator	Contract Ac	Contract Administrator	Total Hours	Raw labor	Labor Cost	Total Cost
Labor Rates	is.	\$57.35	\$52.50	.50	\$31	\$31.25			2.79	
TASKS	Man Hrs	Cost	Man Hrs	Cost	Man Hrs	Cost				
4.0 - 100% Design										
Estimating for Add'I Scope	2	\$114.70	24	\$1,260.00	1	\$31.25	22	\$1,405.95	\$3,922,60	\$3,922.60
Incorporate Add'I Scope in Updated Estimate Package	•	\$57.35	4	\$210.00	1	\$31,25	9	\$298.60	\$833.09	\$833.09
Total	m	\$172.05	28	\$1,470.00	2	\$62.50	33	\$1,704.55	\$4,755.69	\$4,755.69

^{*} This position offers a negotiated rate, less than actual raw rate, which results in burdened rate of \$160.00/hour.