



THE R-A-M PROFESSIONAL GROUP, INC.

CIVIL ENGINEERING • LANDSCAPE ARCHITECTURE • PLANNING • GIS CONSULTANTS

June 7, 2018

LICENSES
CA No. 6489
LC2600197

Ms. Michelle Martin, Project Manager
City of Daytona Beach Public Works
950 Bellevue Avenue
P.O. Box 2451
Daytona Beach, FL 32115-2451

Re: Beville Road Shared-Use Path Project (Change Order 2)
Work Authorization No. 6 (R 16-287)
Contract No. 0111-0740-RAM
RAM Project No. 216-006-02

Dear Michelle:

In accordance with your request for The R-A-M Professional Group, Inc. (RAM) to represent the City of Daytona Beach (CODB) in addressing Florida Department of Transportation (FDOT) District 5 comments related to acceptable trail widths and longitudinal restrictions, and coordination of changes at the western end of the Beville Road Shared Use Path related to FDOT's ongoing construction at I-95/I-4/Beville Road, we have prepared the attached Change Order (CO) 2 request for these additional services. The original scopes of services dated April 7, 2016 and that of CO 1 dated September 18, 2017 are referenced herein and will require coordination with the additional work captioned below.

SCOPE FOR CO 2

RAM will attend a total of five (5) coordination meetings held at the Beville Road project site, CODB Public Works, or FDOT District 5 and provide professional representation of CODB's objectives related to the construction of the Shared Use Path once FDOT's adjacent construction project is complete. RAM will also coordinate with FDOT's project consultants, exchange such engineering materials as necessary, and provide engineering design recommendations to ensure appropriate coordination of CODB's and FDOT's two projects. Associated plan changes will include: trail location to avoid signs and match the FDOT project from the beginning of project until Williamson, MOT, S&PM, DRXS, and XS drainage locations plans.

SCHEDULE FOR CO 2

RAM understands that the above scope of work needs to be completed in concert with FDOT's ongoing construction schedule with full coordination taking place as expeditiously as possible. Until final resolution, completion of the original April 7, 2016 and September 17, 2017 CO 1 scopes will be delayed. Therefore, RAM will proceed with this work immediately upon your authorization to do so.

FEE FOR CO 2

Our lump sum proposal to complete this additional design is attached as Exhibit "B" - Fee Summary for CO 2, and totals \$44,657.19. Services will be invoiced monthly in an amount equivalent to the percentage of work completed.

ATTACHMENTS

1. Exhibit "B" – Fee Summary for Beville Road Shared-Use Path (Change Order 2 to Work Authorization #6)
8298 Bayberry Road, Suite 1 - Jacksonville, Florida 32256
904.731.5440 - FAX 904.731.5465
www.ramprofessionalgroup.com

Ms. Michelle Martin, Project Manager
City of Daytona Beach Public Works
June 7, 2018 – Page 2

This proposal will be accepted by issuance of a Purchase Order.

We very much appreciate your calling upon The R-A-M Professional Group, Inc. to be of continued service to CODB.
Feel free to call with any questions or comments.

Respectfully submitted,
THE R-A-M PROFESSIONAL GROUP, INC.



Lon D. Ogden, P.E.
V.P. of Engineering

EXHIBIT "B"

FEE SUMMARY FOR BEVILLE ROAD SHARED-USE PATH PROJECT (CO 2)

PART I - GENERAL				
1. Project Beville Road Shared-use Path (Change Order 2 to WA #6)		2. Project Number 216.006.02 (CO.2 to R 16-287)		
3. Name of Consultant The R-A-M Professional Group, Inc.		4. Date of Proposal 6/7/2018		
PART II - LABOR RELATED COSTS				
5. Direct Labor	Hourly Rate	Estimated Hours	Estimated Cost	TOTAL
Principal-In-Charge	\$ 65.83	32	\$ 2,106.56	
Engineer-of-Record/Project Manager	\$ 61.90	90	\$ 5,571.00	
Deputy Proj. Mgr./Landscape Architec	\$ 44.50	0	\$ 0.00	
Drainage Engineer/Permitting	\$ 40.70	36	1,465.20	
Roadway/MOT Engineer	\$ 34.50	67	\$ 2,311.50	
Roadway CADD Designer	\$ 30.90	145	\$ 4,480.50	
Civil CADD Technician	\$ 20.00	0	0.00	
Clerical	\$ 19.00	4	\$ 76.00	
TOTAL DIRECT LABOR	\$ 42.81	374		\$ 16,010.76
6. Overhead (Combined Fringe Benefit & Administrative)				
Overhead Rate	150 % x Total Direct Labor			\$ 24,016.14
7. SUBTOTAL: Labor + Overhead (Items 5 & 6)				\$ 40,026.90
8. PROFIT: Labor Related Costs (Item 7) x 10.00%				\$ 4,002.69
PART III - OTHER COSTS				
9. Miscellaneous Direct Costs				
Transportation			\$ 507.60	
Original Reproducibles			\$ 66.00	
Reproduction			\$ 54.00	
Shipping			\$ 0.00	
MISCELLANEOUS DIRECT COSTS SUB-TOTAL				\$ 627.60
PART IV - SUBCONSULTANT COSTS				
10. Subconsultant Costs				
			\$ 0.00	
MISCELLANEOUS DIRECT COSTS SUB-TOTAL				\$ -
PART V - TOTAL				
TOTAL AMOUNT OF CO 2 (Items 5, 6, 8, 9, and 10)				\$ 44,657.19
ORIGINAL COST WORK AUTH. #6 (R 16-287) THRU CO 1				\$ 256,055.01
TOTAL WORK AUTH. #6				\$ 300,712.20

**ESTIMATE OF WORK EFFORT AND FEE FOR
CONSTRUCTION PLANS**

CONSULTANT: The R-A-M Professional Group, Inc. Project No. 216.006.02 (CO1 to R-16-287) Prepared: 6/7/2018 Estimators' Names: Lon Ogden, Wayne Reed					PROJECT: Beville Road Shared-use Path (Change Order 2 to WA #6) FROM: S Clyde Morris Blvd. TO: Andros Isles Boulevard LENGTH: ~2.4 Miles					
ACTIVITY	PRINCIPAL-IN-CHARGE		ENGINEER-OF-RECORD		DEPUTY PROJ. MGR.		DRAINAGE ENG. / PERMIT		ROADWAY/MOT ENG	
	MAN HOURS	LABOR COST	MAN HOURS	LABOR COST	MAN HOURS	LABOR COST	MAN HOURS	LABOR COST	MAN HOURS	LABOR COST
Project General Tasks	0	\$0.00	44	\$2,723.60	0	\$0.00	0	\$0.00	0	\$0
Roadway Analysis	32	\$2,106.56	32	\$1,980.80	0	\$0.00	0	\$0.00	23	\$794
Roadway Plans	0	\$0.00	7	\$433.30	0	\$0.00	0	\$0.00	37	\$1,277
Drainage Analysis	0	\$0.00	7	\$433.30	0	\$0.00	36	\$1,465.20	7	\$242
Utilities	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0
TOTAL	32	\$ 2,106.56	90	\$ 5,571.00	0	\$ -	36	\$ 1,465.20	67	\$ 2,311.50

ACTIVITY	RDWY CADD DESIGN		CIVIL CADD TECH.		CLERICAL		MAN	SALARY	AVG.	SALARY
	MAN HOURS	LABOR COST	MAN HOURS	LABOR COST	MAN HOURS	LABOR COST	HOURS			
Project General Tasks	0	\$0.00	0	\$0.00	0	\$0.00	44	\$2,723.60	\$61.90	17.0
Roadway Analysis	23	\$710.70	0	\$0.00	0	\$0.00	110	\$5,591.56	\$50.83	34.9
Roadway Plans	101	\$3,120.90	0	\$0.00	3	\$57.00	148	\$4,887.70	\$33.03	30.5
Drainage Analysis	21	\$648.90	0	\$0.00	1	\$19.00	72	\$2,807.90	\$39.00	17.5
Utilities	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0.0
TOTAL	145	\$ 4,480.50	0	\$ -	4	\$ 76.00	374	\$ 16,010.76	\$42.81	17.0

MISCELLANEOUS DIRECT COST

CONSULTANT: The R-A-M Professional Group, Inc.
 Project No. 216.006.02 (CO1 to R-16-287)
 Prepared: 6/7/2018
 Estimators' Names: Lon Ogden, Wayne Reed

PROJECT: Beville Road Shared-use Path (Change Order 2 to WA #6)
 FROM: S Clyde Morris Blvd.
 TO: Andros Isles Boulevard
 LENGTH: ~2.4 Miles

ITEM DESCRIPTION	ITEM TOTAL	COMMENTS																														
Originals (24"x36") 30 \$2.20	\$66.00																															
Reproduction (Plots and Copies)																																
<table border="0" style="width:100%"> <tr> <td></td> <td align="center"><u>11 x 17"</u></td> <td align="center"><u>B&W Copy</u></td> <td align="center"><u>Roll Plot (24"x36")</u></td> <td></td> </tr> <tr> <td>Conceptual (30%) Plan</td> <td align="center">0</td> <td></td> <td></td> <td align="right">Sheets</td> </tr> <tr> <td>90% Phase Submittal</td> <td align="center">150</td> <td></td> <td></td> <td align="right">Sheets</td> </tr> <tr> <td>Final Submittal</td> <td align="center">150</td> <td></td> <td></td> <td align="right">Sheets</td> </tr> <tr> <td>Bid Sets</td> <td align="center"><u>300</u></td> <td></td> <td></td> <td align="right">Sheets</td> </tr> <tr> <td>Total Sheets</td> <td align="center">600</td> <td align="center">0</td> <td align="center">0</td> <td></td> </tr> </table>		<u>11 x 17"</u>	<u>B&W Copy</u>	<u>Roll Plot (24"x36")</u>		Conceptual (30%) Plan	0			Sheets	90% Phase Submittal	150			Sheets	Final Submittal	150			Sheets	Bid Sets	<u>300</u>			Sheets	Total Sheets	600	0	0			5 sets (11"x17") 5 sets (11"x17") 10 sets (11"x17")
	<u>11 x 17"</u>	<u>B&W Copy</u>	<u>Roll Plot (24"x36")</u>																													
Conceptual (30%) Plan	0			Sheets																												
90% Phase Submittal	150			Sheets																												
Final Submittal	150			Sheets																												
Bid Sets	<u>300</u>			Sheets																												
Total Sheets	600	0	0																													
Cost:																																
11" x 17"	600	Sheets @	\$	0.09 =	\$54.00																											
B&W Copy	0	Sheets @	\$	0.09 =	\$0.00																											
Concept Boards	0	Sheets @	\$	- =	\$0.00																											
24"x36" copy	0	Sheets @	\$	2.20 =	\$0.00																											
					\$54.00																											
Travel From: [Consultant Office Location]																																
To Project # Trips																																
Transport. 3 x 180 miles x			\$0.540	per mile*	\$291.60																											
To FDOT Distret 5: # Trips																																
Transport. 2 x 200 miles x			\$0.540	per mile*	\$216.00																											
Other (Specify)																																
Shipping (0 Deliveries @ \$30.00 Each)					\$0.00																											
TOTAL COST					\$627.60																											

SUMMARY OF MANHOUR REQUIREMENTS

CONSULTANT: The R-A-M Professional Group, Inc.
 Project No. 216.006.02 (CO1 to R-16-287)
 Prepared: 6/7/2018
 Estimators' Names: Lon Ogden, Wayne Reed

PROJECT: Beville Road Shared-use Path (Change Order 2 to WA #6)
 FROM: S Clyde Morris Blvd.
 TO: Andros Isles Boulevard
 LENGTH: ~2.4 Miles

ITEM	NO. OF SHEETS	TOTAL MANHOURS	COMMENTS
Project General Tasks	0	44	
Roadway Analysis	0	112	
Roadway Plans	27	149	
Drainage Analysis	3	72	
Utilities	0	0	
Permitting			Included in Above Items
Field Reviews			Included in Above Items
QA/QC			Included in Above Items
TOTAL	30	376.16	12.5 Hours/Sheet

PROJECT GENERAL TASKS

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ITEM	UNIT	NO. OF UNITS	NO. OF SHEETS	M-H PER UNIT	TOTAL MANHOURS	COMMENTS
Analysis						
Contract Maintenance	LS	1	0	12	12	
Project Manager Meetings	Each	4	0	6	24	PM time only
Project Manager Field Reviews	Each	1	0	8	8	PM time only/included meeting
PROJECT GENERAL TASKS			0		44	

ROADWAY ANALYSIS

CONSULTANT: The R-A-M Professional Group, Inc.
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ITEM	UNIT	NO. OF UNITS	NO. OF SHEETS	M-H PER UNIT	TOTAL MANHOURS	COMMENTS
Typical Section Package	LS	0	0	0	0	n/a
Pavement Design Package	LS	0	0	0	0	n/a
Horizontal Master Design Files	LS	0	0	0	0	n/a
Cross Section Design Files	LS	1	0	18	18	Revised to accommodate D5 Interchange and Sidewalk width changes.
Crosswalk Analysis	LS	0	0	0	0	n/a
MOT Analysis	LS	1	0	8	8	Revisions
Signing and Pavement Marking Anal. Design/Coord.	Each	1	0	2	2	
Design Report	LS	1	0	24	24	FDOT D5, CODB, GAI
Quantities	LS	1	0	4	4	
Cost Estimates	LS	1	0	6	6	
Guide Signs (Non structural)	LS	3	0	3	9	3 of 5 (excludes D5 signs)
SUB-TOTAL ROADWAY ANALYSIS					71	
Field Reviews (excluding PM hrs)	Each	1	0	8	8	
Technical Meetings (excluding PM hrs)	Each	4	0	6	24	Coordination meetings with D5 and CODB regarding overlapping project limits and accommodating both trail and interchange project needs.
QA/QC	%	5%	0	4	4	
Supervision	%	5%	0	4	4	
Coordination	%	2%	0	1	1	
TOTAL ROADWAY ANALYSIS					112	

ROADWAY AND SIGNAL PLANS

CONSULTANT: The R-A-M Professional Group, Inc.
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ITEM	UNIT	NO. OF UNITS	NO. OF SHEETS	M-H PER UNIT	TOTAL MANHOURS	COMMENTS
Key Sheet	Sheet	0	0	0	0	n/a Revised typical sections to accommodate sidewalk revisions.
Typical Sections Sheet	Sheet	1	1	4	4	See below.
General Notes	Sheet	1	1	0	0	n/a
Summary of Quantities	Sheet	1	1	4	4	Revised
Project Layout	Sheet	0	0	0	0	n/a
Plan Sheets	Sheet	1	7	8	56	Update plan sheets between Andros Isles Blvd and Williamson Blvd. related to D5 drainage revisions for the DB Interchange project. 2. Revision of plan sheets related to sidewalk width and construction method requirements imposed by D5.
Cross-Sections	Each	12	2	2	24	Multiple Revisions at begin project
Signing and Pav't Marking Plans/Details	Sheet	1	7	2	14	Same as above.
Intersection Detail Sheets	Sheet	1	1	3	3	Williamson Boulevard Intersection
Signalization/Ped. Lighting Plans	Sheet	0	0	0	0	n/a
Erosion Control Plan	Sheet	0	0	0	0	n/a
MOT Plans	Sheet	1	7	4	28	Revised to accommodate 10' wide sidewalk and construction joint elimination between Clyde Morris
SUB-TOTAL ROADWAY PLANS			27		133	
Field Reviews (excluding PM hrs)	Each	0	0	8	0	
Technical Meetings (excluding PM hrs)	Each	0	0	8	0	
QA/QC	%	5%	0	7	7	
Supervision	%	5%	0	7	7	
Coordination	%	2%	0	3	3	
TOTAL ROADWAY PLANS					149	

DRAINAGE ANALYSIS/PLANS

CONSULTANT: The R-A-M Professional Group, Inc.
 Project No. 216.006.02 (CO1 to R-16-287).
 Prepared: 6/7/2018
 Estimators' Names: Lon Ogden, Wayne Reed

PROJECT: Beville Road Shared-use Path (Change Order 2 to WA #6)
 FROM: S Clyde Morris Blvd.
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 LENGTH: ~2.4 Miles

ITEM	UNIT	NO. OF UNITS	NO. OF SHEETS	M-H PER UNIT	TOTAL MANHOURS	COMMENTS
Drainage Map	Sheet	0	0	0	0	n/a
Design of Cross Drains	Each	5	0	4	20	Multiple Revisions Revised to accommodate DB Interchange
Design of Ditches	Mile	0.2	0	80	16	project.
Stormwater Management	Each	0	0	0	0	
Design of Storm Drains	Each	1	0	0	0	n/a Revised to accommodate DB Interchange
Documentation Report	LS	1	0	12	12	project changes. Revised to accommodate DB Interchange
Summary of Drainage Structures	Sheet	1	1	6	6	project Revised to accommodate DB Interchange
Drainage Structure Sheet (Per Structure)	Each	5	2	2	10	project
SWPPP	Sheet	0	0	0	0	
SUB-TOTAL DRAINAGE ANALYSIS			3		64	
Field Reviews (excluding PM hrs)	Each	0	0	0	0	
Technical Meetings (excluding PM hrs)	Each	0	0	0	0	
QA/QC	%	5%	0	3	3	
Supervision	%	5%	0	3	3	
Coordination	%	2%	0	1	1	
TOTAL DRAINAGE ANALYSIS					72	

UTILITIES

CONSULTANT: The R-A-M Professional Group, Inc.
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ITEM	UNIT	NO. OF UNITS	NO. OF SHEETS	M-H PER UNIT	TOTAL MANHOURS	COMMENTS
Kickoff Meeting	LS	0	0	0	0	
Identify Existing UAO(s)	LS	0	0	0	0	
Preliminary Utility Meeting	LS	0	0	0	0	
Collect and Review Data from UAO(s)	LS	0	0	0	0	
Review Utility Markups and Work Schedules	LS	0	0	0	0	
Utility Design Meeting	LS	0	0	0	0	
Utility Coordination / Followup	LS	0	0	0	0	
Contract Plans to UAO(s)	LS	0	0	0	0	
Conflict Matrix	LS	0	0	0	0	
Certification / Closeout	LS	0	0	0	0	
SUB-TOTAL UTILITIES			0		0	
Field Reviews (excluding PM hrs)	Each	0	0	0	0	
Technical Meetings (excluding PM hrs)	Each	0	0	0	0	
QA/QC	%	5%	0	0	0	
Supervision	%	5%	0	0	0	
Coordination	%	2%	0	0	0	
TOTAL UTILITIES					0	