

**CCNA2018 WORK ORDER 44
AMENDMENT NO. 2**

Landfill Gas Flare Skid Improvements and Pipeline Extension

This Amendment No. 2 to Work Order Number 44 is entered into as of this ____ day of _____, 2022, pursuant to that certain Continuing Consulting Engineering Services Agreement for Professional Services entered into as of the 17th day of April, 2018, as renewed and amended as of the 18th day of May, 2021 (the "Agreement"), by and between INDIAN RIVER COUNTY, a political subdivision of the State of Florida ("COUNTY") and Kimley-Horn and Associates, Inc. ("Consultant").

The COUNTY has selected the Consultant to perform the professional services set forth on Exhibit A (Scope of Work), attached to this Work Order and made part hereof by this reference. The professional services will be performed by the Consultant for the fee schedule set forth in Exhibit B (Fee Schedule), attached to this Work Order and made a part hereof by this reference. The Consultant will perform the professional services within the timeframe more particularly set forth in Exhibit C (Time Schedule), attached to this Work Order and made a part hereof by this reference all in accordance with the terms and provisions set forth in the Agreement. Pursuant to paragraph 1.4 of the Agreement, nothing contained in any Work Order shall conflict with the terms of the Agreement and the terms of the Agreement shall be deemed to be incorporated in each individual Work Order as if fully set forth herein.

IN WITNESS WHEREOF, the parties hereto have executed this Work Order as of the date first written above.

CONSULTANT:

Kimley-Horn and Associates, Inc.

**BOARD OF COUNTY COMMISSIONERS
OF INDIAN RIVER COUNTY**

By:

Brian A. Good, P.E.

By:

Peter D. O'Bryan, Chairman

Print Name:

Title:

Senior Vice President

BCC Approved Date:

Attest: Jeffrey R. Smith, Clerk of Court and Comptroller

By:

Deputy Clerk

Approved:

Jason E. Brown, County Administrator

Approved as to form and legal sufficiency:

Dylan T. Reingold, County Attorney

AMENDMENT NO. 2

WORK ORDER NUMBER 44

LANDFILL GAS FLARE SKID IMPROVEMENTS AND PIPELINE EXTENSION

EXHIBIT A

SCOPE OF WORK

PROJECT UNDERSTANDING

Indian River County (County) solid waste disposal district (SWDD) currently relies on a candlestick flare for landfill gas (LFG) emissions. The current blower flare skid was installed in 2004 and is in need of updating and reconfiguration for overall performance and efficiency, and to accommodate the renewable natural gas (RNG) project that is in development with the Indian River Eco District (IREDD). In addition, SWDD is working with a third-party to install a leachate evaporation system that may utilize landfill gas as a fuel source. To accommodate the RNG and evaporation projects, modifications to the LFG skid and an extension to the LFG pipeline are required. The proposed modifications will improve the LFG collection and control system by providing reliable vacuum pressure to the gas wellfield and ensure continuous delivery of dry, pressurized LFG to the evaporation and RNG projects.

Kimley-Horn and Associates, Inc. (Consultant) has partnered with BioGas Engineering (BioGas) to design, permit and bid the proposed improvements. Amendment No. 2 provides for additional geotechnical services related to additional concrete slabs needed for reconfiguration of the skid modifications, review of blower skid proposals from various suppliers, structural design of the concrete slabs, additional meetings, and general project management efforts.

SCOPE OF SERVICES

Task 1: Landfill Gas Pipeline Design

Subtask 1.1.3 has been amended as noted below.

Subtask 1.1 Preliminary Design Activities

1.1.1 Alignment for Survey Purposes

No changes.

1.1.2 Survey

No changes.

1.1.3 Geotechnical Data

The Consultant will modify the subcontract with a local geotechnical engineering consultant who routinely performs work for the County on the SWDD property to perform additional services to collect geotechnical data in several additional

locations for the new slab configuration and addition of the dehydration system. The additional borings are required to supplement the previously budgeted hand auger samples, for structural purposes.

Subtask 1.2 Landfill Gas Pipeline Design

1.2.1 30 Percent Design
No changes.

1.2.2 60 Percent Design
SWDD requested a realignment of the pipeline to avoid a conflict with the ongoing project to underground the existing overhead electrical lines. This resulted in a redesign and an evaluation of horizontal directional drill versus open trench construction methods. The Consultant will provide additional coordination and alignment services for the subconsultant designing the pipeline.

1.2.3 90 Percent Design and Final Bid Package
No changes

1.2.4 Bidding and Project Management
No changes

Subtask 1.3 Coordination with Heartland

No changes.

Task 2: Landfill Gas Skid Design

Subtasks 2.3, 2.4 and 2.5 have been modified to accommodate minor changes to the scope of the project.

Subtask 2.1 Request for Information

No changes.

Subtask 2.2 30 Percent Design

No changes.

Subtask 2.3 60 Percent Design

The County requested that the Consultant review three bids received from three suppliers for the LFG Blower Skid package. This included additional coordination with the suppliers to verify and adjust pricing to be comparable amongst all three. This evaluation was not anticipated nor included in the original Scope of Services. This task also included coordination with the subconsultant on the configuration of the additional dehydration system equipment and skid (added after the original Scope of Services was authorized).

Subtask 2.4 90 Percent Design and Final Bid Package

The original Scope of Services assumed that the existing equipment slab would be utilized for the installation of the new equipment (and that the LFG system would be taken out of

service during construction to accommodate the swapping of equipment). SWDD subsequently determined that the LFG system could not be out of service long enough to accommodate construction of the new system, and rather, a new slab would be required to install the new equipment while maintaining the existing operation. This task will be amended to include the structural design of three new concrete slabs for the new blower skid, the dehydration skid, and the new flare.

Subtask 2.5 Bidding and Project Management

This task has been amended to provide for additional project management and coordination efforts.

Subtask 2.6 Permitting

No changes.

Task 3: SCADA Coordination and Electrical Considerations

No changes.

EXHIBIT B

AMENDED FEE SCHEDULE

The Consultant will provide these services in accordance with our Continuing Consulting Engineering Services Agreement for Professional Services dated May 18, 2021, by and between INDIAN RIVER COUNTY, a political subdivision of the State of Florida (“COUNTY”) and Kimley-Horn and Associates, Inc., (“Consultant”).

Amendment No. 2 will increase the original authorization by a lump sum fee of \$13,306, for an amended Work Order Total of \$280,556, as detailed below. Individual task amounts are informational purposes only. All permitting, application, and similar project fees will be paid directly by the County.

ESTIMATE FOR ENGINEERING SERVICES

PROJECT: Landfill Gas Flare Skid Improvements and Pipeline Extension												
CLIENT: Indian River County												
ESTIMATOR: JTG												
TASK	DIRECT LABOR (MAN-HOURS)					AMENDMENT 2					Previous Authorization	Amended Total
	Senior Project Manager	Senior Civil Engineer	Civil Engineer	Senior Designer	Accounting/ Admin	KHA Labor Subtotal	Dir Exp (5%)	Subs		Amendment 2 Total		
								Survey	Geotech			
Task 1 - Landfill Gas Pipeline Design	8	4	2	0	0	\$ 3,010	\$ 150.50	\$ -	\$ 1,000	\$ 4,160.50	\$ 102,980	\$ 107,141
1.1 Preliminary Design Services												
1.1.1 - Alignment for Survey Purposes						\$ -		\$ -	\$ -	\$ -	\$ 3,320	\$ 3,320
1.1.2 - Survey						\$ -		\$ -	\$ -	\$ -	\$ 3,110	\$ 3,110
1.1.3 - Geotech						\$ -		\$ -	\$ 1,000	\$ 1,000	\$ 5,100	\$ 6,100
1.2 Landfill Gas Pipeline Design											\$ -	\$ -
1.2.1 - 30% Design						\$ -		\$ -	\$ -	\$ -	\$ 8,420	\$ 8,420
1.2.2 - 60% Design	8	4	2	0	0	\$3,010.00	\$150.50	\$-	\$-	\$3,160.50	\$ 18,010	\$ 21,171
1.2.3 - 90% Design and Final Bid Package						\$-		\$-	\$-	\$-	\$ 9,890	\$ 9,890
1.2.4 - Bidding and Project Management						\$-		\$-	\$-	\$-	\$ 24,030	\$ 24,030
1.3 Coordination with Heartland						\$-		\$-	\$-	\$-	\$ 31,100	\$ 31,100
Task 2 - Landfill Gas Skid Design	14	16	8	4	4	\$8,710.00	\$435.50	\$-	\$-	\$9,145.50	\$ 153,260	\$ 165,406
2.1 Request for Information						\$-		\$-	\$-	\$-	\$ 9,210	\$ 9,210
2.2 30% Design						\$-		\$-	\$-	\$-	\$ 37,200	\$ 37,200
2.3 60% Design	8	0	4	0	2	\$2,570.00	\$128.50	\$-	\$-	\$2,698.50	\$ 29,650	\$ 32,349
2.4 90% Design and Final Bid Package	2	16	4	4		\$5,090.00	\$254.50	\$-	\$-	\$5,344.50	\$ 30,250	\$ 35,595
2.5 Bidding and Project Management	4				2	\$1,050.00	\$52.50	\$-	\$-	\$1,102.50	\$ 32,560	\$ 33,663
2.6 Permitting						\$ -		\$ -	\$ -	\$ 0	\$ 14,390	\$ 14,390
Task 3 - SCADA Coordination and Electrical Considerations	0	0	0	0	0	\$ -		\$ -	\$ -	\$ -	\$ 11,010	\$ 11,010
TOTALS	22	20	10	4	4	\$ 11,720	\$ 586	\$ -	\$ 1,000	\$ 13,306	\$ 267,250	\$ 280,556

ADDITIONAL SERVICES

The following services are not included in the Scope of Services for this project but may be required depending on circumstances that may arise during the execution of this project. Additional services may include, but not be limited to the following:

- Environmental Services (surface water impacts, gopher tortoise relocation, etc.)
- Construction Services
- Design of the RNG or evaporation system projects
- Stormwater modeling
- Electrical design beyond the minimal effort outlined herein

EXHIBIT C

AMENDED TIME SCHEDULE

The original schedule will be extended by approximately 90 days to accommodate additional services and design modifications.