SUBJECT: TRAIL RIDGE LANDFILL PHASE 6: LANDFILL GAS COLLECTION- PHASE II

BID #: CF-0084-21 **OPEN DATE:** 2021-05-26

GENERAL GOVERNMENT AWARDS COMMITTEE

KIND AND BASIS OF CONTRACT: CONSTRUCTION FIXED

AGENCY: SOLID WASTE

BASIS OF AWARD: TOTAL BASE BID -LOWEST RESPONSIVE, RESPONSIBLE BIDDER

NUMBER OF BIDS INVITED: (6) **NUMBER RECEIVED:** (2) **OTHER** (1)

SUMMARY OF BIDS AND RECOMMENDED ACTIONS:
Recommend approval of award to APTIM Environmental & Infrastructure, LLC as the lowest responsive, responsible bidder in the total base bid amount of $6,813,963.80.

Funding for this award to be encumbered by account(s): 43105-157002-565051-005695-00000000-00000-0000000 to be executed by formal contract through Office of General Counsel.

Attachments: Recommendation Memo, Bid Tabulation Sheet, Basis of Award, Scope of Work

ANALYST: Marilyn Laidler
MARILYN LAIDLER

RESPECTFULLY SUBMITTED
GREGORY PEASE, CHIEF
PROCUREMENT DIVISION

CONCURRENCE BY: Will Williams, Chief, Solid Waste Division/Jeffrey S. Foster, P.G., Solid Waste Environmental Engineering Manager

(ALL AWARD ACTIONS SUBJECT TO LAWFULLY APPROPRIATED FUNDS)
ACTION OF GGAC COMMITTEE ON RECOMMENDATIONS ABOVE

MEMBERS APPROVING _____ MEMBERS DISAPPROVING _____ DATE: _____

_____ _____ OTHER: _____

_____ _____

_____ _____

ACTION OF AWARDING AUTHORITY DATE _____

APPROVED _____ DISAPPROVED _____

OTHER _____

SIGNATURE OF AUTHENTICATION _____

City of Jacksonville, Florida

Lenny Curry, Mayor

Department of Public Works
Solid Waste Division
1031 Superior Street
Jacksonville, FL 32254
(904) 255-7500
www.coj.net

ONE CITY. ONE JACKSONVILLE.

June 28, 2021

TO: Greg Pease, Chief, Procurement Division

THRU: John Pappas, P.E., Director, Department of Public Works

FROM: Jeffrey S. Foster, P.G., Solid Waste Environmental Engineering Manager
Will Williams, Chief, Solid Waste Division

SUBJECT: RECOMMENDATION TO AWARD

RE: Trail Ridge Landfill Phase 6: Landfill Gas Collection-Phase II

Bid No.:	**CF-0084-21**
Bid Date:	**May 26, 2021**
Award Amount:	**$6,813,963.80**
POETA:	**005695.PWSW.565051.1.43105-384020**

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The Department of Public Works Solid Waste Division (SWD) has tabulated and reviewed the two (2) bids received on the referenced project for accuracy and compliance with the contract documents and Request for Proposal CF-0084-21. SWD reviewed each of the RFP submittal documents for experience in the type of work being requested along with interviews with provided references and other professional industry representatives knowledgeable of each bidder's expertise and recommends the award of the project to APTIM Environmental & Infrastructure, LLC as the lowest responsive, responsible bidder. In addition, Public Works has confirmed through www.myfloridalicense.com the appropriate licenses for this contractor and listed subcontractors, if applicable. This project was bid as a 20% JSEB goal and the JSEB Office has verified the low bidder meets the JSEB goal.

Accordingly, we recommend that the Trail Ridge Landfill Phase 6: Landfill Gas Collection-Phase II be awarded to APTIM Environmental & Infrastructure, LLC, 4171 Essen Lane, Baton Rouge, LA 70809 in accordance with the attached bid documents, in the amount of $6,813,963.80.

Sufficient funding is available in 43105.157002.565051.005695.00000000.00000.0000000. Nothing herein shall be amended, modified or otherwise revised without prior GGAC and Mayor's approval.

Please advise when this item will be placed on the agenda so a representative of Solid Waste can attend.

JSF/jf

Attachments

Cc: Steve Schlessinger PW Contract Specialist, Department of Public works
Nickii Brookins, SWD Finance Manager

CDM Smith
4651 Salisbury Road, Suite 420
Jacksonville, Florida 32256
tel: 904 731-7109

June 18, 2021

Mr. Jeffrey Foster
Solid Waste Department
City of Jacksonville
1031 Superior Road
Jacksonville, FL 32254

Subject: City of Jacksonville Trail Ridge Landfill Phase 6 Landfill Gas Collection – Phase 2
City Project No. PWSW44K 38484
Bid No. CF-0084-21
Evaluation of Bids and Recommendation of Award

Dear Mr. Foster:

CDM Smith has reviewed the two bids received at the bid opening on May 12, 2021, for the Trail Ridge Landfill Phase 6 Landfill Gas Collection – Phase 2 Project. The Bidders are listed in numerical order based on the low bidder first. The two bids received on the Project are as follows:

	Bidders	Grand Total Base Bid Item Nos. 1 through 19
1.	APTIM Environmental & Infrastructure, LLC Baton Rouge, Louisiana	$6,813,963.80
2.	Sawcross, Inc. Jacksonville, Florida	$7,419,000.00

Both of the Bidders attached a bid bond in an amount of 5 percent of the Grand Total Base Bid amount. Both of the Bidders acknowledged receipt of the Addenda Nos. 1 through 3. In reviewing the bidding documents, CDM Smith determined that all of the bids were mathematically correct.

In Appendix C of the Bid Proposal, bidders were required to list major equipment suppliers. Both APTIM Environmental & Infrastructure, LLC and Sawcross, LLC provided the requested information. Both bidders are found to provide equipment in general accordance with the design intent of the contract documents.

In Appendix H of the Bid Proposal, bidders were required to fill in the schedule of Jacksonville Small and Emerging Business (JSEB) Subcontractor/Subconsultant Participation. The City has elected to implement a JSEB encouragement plan for this project. Under the encouragement plan, vendors are required to make reasonable efforts to allow City certified JSEBs a fair opportunity to compete for performance on this project. APTIM Environmental & Infrastructure, LLC and Sawcross, Inc.

indicated 1.70 and 1.78 percent participation, respectively. Given the large portion of this project that is equipment purchase, both bidders are deemed in compliance with the JSEB encouragement plan.

As stated in Paragraph 2.9 in Division 1 Section 2, the contract, if awarded, shall be awarded on the basis of the lowest responsive, responsible bidder by the City.

The low bidder, APTIM Environmental & Infrastructure, LLC, submitted the required minimum qualifications with their bid and, in our opinion, the experience, subcontractor relationships, and equipment selection submitted appears satisfactory. CDM Smith called the references for the listed projects and are satisfied with the responses received. CDM Smith has reached out to three listed references and completed project contacts for APTIM Environmental & Infrastructure, LLC to confirm performance and project experience on similar construction projects. Marcia Papin (City of Greenville) provided a positive reference pertaining to APTIM's team, ability to meet construction schedule with minimal change orders, and successful equipment performance. Terry Darragh (Waste Management) provided a positive reference for both the Richland County Landfill and Oak Ridge Landfill projects. He noted they are positive to work with, and leachate is no longer an issue at their sites. Sawcross, Inc. did not submit the required minimum qualifications, including previous installations and references with their bid and was determined to be non-responsive.

We believe that APTIM Environmental & Infrastructure, LLC, is a responsible contractor, who in our opinion is capable of undertaking the work on the Landfill Gas Project in a satisfactory and timely manner. Accordingly, CDM Smith recommends that the City award a construction contract to the low bidder, APTIM Environmental & Infrastructure, LLC of Baton Rouge, Louisiana in the amount of $6,813,963.80 for the construction of the Trail Ridge Landfill Phase 6 Landfill Gas Collection Project for the City of Jacksonville.

Please contact this office if you have any questions or need further assistance.

Sincerely,

Lisa M Sterling

Lisa M. Sterling, P.E., PMP, BCEE
Associate
CDM Smith Inc.

Enclosure File: 9012-228686.TRLF-Bids

PREQUALIFIED - HORIZONTAL

TITLE:	TRAIL RIDGE LANDFILL PHASE 6: LANDFILL GAS COLLECTION - PHASE 2			APTIM ENVIRONMENTAL & INFRASTRUCTURE LLC		SAWCROSS, INC.	
BID NO.	CF-0084-21 PUBLIC WORKS						
OPEN DATE:	MAY 26, 2021 @ 2:00 PM						
BUYER:	NEKOLE HULITT, PURCHASING ANALYST						
No. Invited: (6)	No. Received (2) No Bids: (1)						
Bid Item No.	Item Description	Unit	Est Qty	Unit Cost	Total Cost	Unit Cost	Total Cost
1	Mobilization/Demobilization	LS	1	184,310.00	184,310.00	200,000	200,000.00
2	Enclosed Flare (Includes flare stack, supports, burners, air louvers, refractory, propane tanks, shipping, testing, installation and commissioning)	ea.	1	420,147.50	420,147.50	435,000	435,000.00
3	Flare blower skid (Includes support skid, blowers, knockout pot, piping, wiring, controls, shipping, testing, installation and commissioning)	ea.	1	233,187.75	233,187.75	245,000	245,000.00
4	Leachate Evaporator System (Includes the leachate evaporator vessel, fuel burner, burner controls, clarifier (if used), venturi scrubber system, discharge stack, pressure washer, stilling tank, piping, wiring and controls, supports, testing, shipping, installation and commissioning)	ea.	1	3,132,538.50	3,132,538.50	3,250,000	3,250,000.00
5	Frac tank (Includes tank, connection hoses, camlok connectors, level sensor, piping and wiring, shipping and installation)	ea.	1	48,074.00	48,074.00	53,000	53,000.00
6	Leachate force main (Includes supply and installation of all piping from the pumps at the tank farm to the leachate evaporator building)	LS	1	75,000.00	75,000.00	80,000	80,000.00
7	Residual transfer line (Includes supply and installation of all residuals piping from the leachate evaporator building to the load out pump skid, trenching and backfill)	LS	1	7,500.00	7,500.00	90,000	90,000.00
8	Load out pump skid (Includes supply and installation of the skid mounted loadout pump, piping, wiring and controls, shipping, testing and commissioning)	ea.	1	22,037.50	22,037.50	27,000	27,000.00
9	Limerock Driveway (Includes all materials, placement, excavation and installation)	LS	1	113,950.00	113,950.00	60,000	60,000.00
10	Leachate evaporator system building (Includes supply, shipping and installation of concrete foundations, pre-engineered metal building, lighting, plumbing, wiring, piping, doors, stairways, handrail, ventilators, fire protection, lightning protection, connections to work by others, alarms.)	ea.	1	364,180.00	364,180.00	435,000	435,000.00
11	Booster blower skid (Includes support skid, blowers, knockout pot, piping, wiring, controls, shipping, testing, installation and commissioning)	ea.	1	315,512.50	315,512.50	352,000	352,000.00
12	Landfill gas piping (Includes supply, shipping and installation of buried and above ground piping, valves, instrumentation, controls, condensate sumps, condensate pumps, pipe supports, trenching and backfill)	LS	1	130,000.00	130,000.00	200,000	200,000.00
13	Air compressor station (Includes supply, shipping and installation of the air compressor, piping, wiring and controls)	ea.	1	24,187.50	24,187.50	27,000	27,000.00
14	Propane piping (Includes buried piping, trenching and backfill from the propane tank to the leachate evaporator system building)	LS	1	2,000.00	2,000.00	40,000	40,000.00
15	Electrical supply (Includes all wire, conduit, transformer, utility connection, trenching and backfill, main disconnect and checkout of the electrical supply from the utility connection point to the leachate evaporation system connection point)	LS	1	182,875.00	182,875.00	930,000	930,000.00
16	Yard piping (Includes supply, installation, trenching and backfilling of potable water supply, compressed air and condensate piping)	LS	1	50,000.00	50,000.00	390,000	390,000.00
17	Leachate supply pumps (Includes supply, shipping and installation of the leachate supply pumps, support stand, piping and wiring within the leachate containment, controls and instrumentation, local control panel, testing and commissioning)	ea.	1	106,951.75	106,951.75	65,000	65,000.00
18	Concrete pads (Includes concrete pads for the flare blower skid, flare, leachate evaporator system blower skid, air compressor skid, loadout area, housekeeping pads, propane tank supports and pipe supports)	LS	1	671,119.50	671,119.50	300,000	300,000.00
19	Interconnecting wiring and fiber optics (Includes all buried interconnecting wiring between junction boxes on various systems, trenching and backfilling)	LS	1	730,392.30	730,392.30	240,000	240,000.00
	NOTE All items listed above as "Included" in various systems are for reference and bid tabulation only. Complete supply shall be in full conformance with the requirements set forth in the contract documents. All items, whether listed here in or not, shall be provided in accordance with the contract documents to provide for a complete and operating system.						
	TOTAL BID (ITEM NOS. 1-19):				$ 6,813,963.80		$ 7,419,000.00
	CONFLICT OF INTEREST:			YES		YES	
	BID BONDS:			YES		YES	
	LICENSED SUBS:			YES		YES	
	ADDENDUM(S) (1,2,3)			YES		YES	
	ANALYST NOTE:					BIDDER DOES NOT MEET MINIMUM REQUIREMENTS	

APTIM ENVIRONMENTAL & INFRASTRUCTURE LLC
TRLF PHASE 6 LANDFILL GAS COLLECTION - PHASE 2

Item No.	Description	Unit	Est Qty 1	Price	Total Price
1	Mobilization/Demobilization	LS	1	184,310	$ 184,310.00
2	Enclosed Flare	EA	1	420,148	$ 420,147.50
3	Flare Blower Skid	EA	1	233,188	$ 233,187.75
4	Leachate Evaporator System	EA	1	3,132,539	$ 3,132,538.50
5	Frac Tank	EA	1	48,074	$ 48,074.00
6	Leachate Force Main	LS	1	75,000	$ 75,000.00
7	Residual Transfer Line	LS	1	7,500	$ 7,500.00
8	Load Out Pump Skid	EA	1	22,038	$ 22,037.50
9	Limerock Driveway	LS	1	113,950	$ 113,950.00
10	Leachate Evaporator System Building	EA	1	364,180	$ 364,180.00
11	Booster Blower Skid	EA	1	315,513	$ 315,512.50
12	Landfill Gas Piping	LS	1	130,000	$ 130,000.00
13	Air Compressor Station	EA	1	24,188	$ 24,187.50
14	Propane Piping	LS	1	2,000	$ 2,000.00
15	Electrical Supply	LS	1	182,875	$ 182,875.00
16	Yard Piping	LS	1	50,000	$ 50,000.00
17	Leachate Supply Pumps	EA	1	106,952	$ 106,951.75
18	Concrete Pads	LS	1	671,120	$ 671,119.50
19	Interconnecting Wiring and Fiber Optics	LS	1	730,392	$ 730,392.30
	TOTAL BASE BID:				$ 6,813,963.80

Contingency Items

Item No.	Description	Unit	Est Qty	Total Price
1	NA	NA		

SAWCROSS, INC.
TRLF PHASE 6 LANDFILL GAS COLLECTION - PHASE 2

Item No.	Description	Unit	Est Qty 1	Price	Total Price
1	Mobilization/Demobilization	LS	1	200,000	$ 200,000.00
2	Enclosed Flare	EA	1	435,000	$ 435,000.00
3	Flare Blower Skid	EA	1	245,000	$ 245,000.00
4	Leachate Evaporator System	EA	1	3,250,000	$ 3,250,000.00
5	Frac Tank	EA	1	53,000	$ 53,000.00
6	Leachate Force Main	LS	1	80,000	$ 80,000.00
7	Residual Transfer Line	LS	1	90,000	$ 90,000.00
8	Load Out Pump Skid	EA	1	27,000	$ 27,000.00
9	Limerock Driveway	LS	1	60,000	$ 60,000.00
10	Leachate Evaporator System Building	EA	1	435,000	$ 435,000.00
11	Booster Blower Skid	EA	1	352,000	$ 352,000.00
12	Landfill Gas Piping	LS	1	200,000	$ 200,000.00
13	Air Compressor Station	EA	1	27,000	$ 27,000.00
14	Propane Piping	LS	1	40,000	$ 40,000.00
15	Electrical Supply	LS	1	930,000	$ 930,000.00
16	Yard Piping	LS	1	390,000	$ 390,000.00
17	Leachate Supply Pumps	EA	1	65,000	$ 65,000.00
18	Concrete Pads	LS	1	300,000	$ 300,000.00
19	Interconnecting Wiring and Fiber Optics	LS	1	240,000	$ 240,000.00
	TOTAL BASE BID:				$ 7,419,000.00

Contingency Items

Item No.	Description	Unit	Est Qty	Total Price
1	NA	NA		

				APTIM ENVIRONMENTAL & INFRASTRUCTURE LLC		SAWCROSS, INC.				
Item No.	Description	Unit	Total Qty	Total Price	Unit Price	Total Price	Unit Price	Min	Max	Avg
1	Mobilization/Demobilization	LS	1	184,310	184,310	200,000	200,000	184,310	200,000	192,155
2	Enclosed Flare	ea.	1	420,148	420,148	435,000	435,000	420,148	435,000	427,574
3	Flare Blower Skid	ea.	1	233,188	233,188	245,000	245,000	233,188	245,000	239,094
4	Leachate Evaporator System	ea.	1	3,132,539	3,132,539	3,250,000	3,250,000	3,132,539	3,250,000	3,191,269
5	Frac Tank	ea.	1	48,074	48,074	53,000	53,000	48,074	53,000	50,537
6	Leachate Force Main	LS	1	75,000	75,000	80,000	80,000	75,000	80,000	77,500
7	Residual Transfer Line	LS	1	7,500	7,500	90,000	90,000	7,500	90,000	48,750
8	Load Out Pump Skid	ea.	1	22,038	22,038	27,000	27,000	22,038	27,000	24,519
9	Limerock Driveway	LS	1	113,950	113,950	60,000	60,000	60,000	113,950	86,975
10	Leachate Evaporator System Building	ea.	1	364,180	364,180	435,000	435,000	364,180	435,000	399,590
11	Booster Blower Skid	ea.	1	315,513	315,513	352,000	352,000	315,513	352,000	333,756
12	Landfill Gas Piping	LS	1	130,000	130,000	200,000	200,000	130,000	200,000	165,000
13	Air Compressor Station	ea.	1	24,188	24,188	27,000	27,000	24,188	27,000	25,594
14	Propane Piping	LS	1	2,000	2,000	40,000	40,000	2,000	40,000	21,000
15	Electrical Supply	LS	1	182,875	182,875	930,000	930,000	182,875	930,000	556,438
16	Yard Piping	LS	1	50,000	50,000	390,000	390,000	50,000	390,000	220,000
17	Leachate Supply Pumps	ea.	1	106,952	106,952	65,000	65,000	65,000	106,952	85,976
18	Concrete Pads	LS	1	671,120	671,120	300,000	300,000	300,000	671,120	485,560
19	Interconnecting Wiring and Fiber Optics	LS	1	730,392	730,392	240,000	240,000	240,000	730,392	485,196
	TOTAL BASE BID:			$6,813,963.80		$7,419,000.00				

Contingency Items

Item No.	Description	Unit	Est Qty	Total Price	Unit Price	Total Price	Unit Price			
1	NA	NA								

		APTIM ENVIRONMENTAL & INFRASTRUCTURE LLC		SAWCROSS, INC.				
Item No.	Description	Total Price	Dev from Avg	Total Price	Dev from Avg	Min	Max	Avg
1	Mobilization/Demobilization	184,310	-4%	200,000	4%	184,310	200,000	192,155
2	Enclosed Flare	420,148	-2%	435,000	2%	420,148	435,000	427,574
3	Flare Blower Skid	233,188	-2%	245,000	2%	233,188	245,000	239,094
4	Leachate Evaporator System	3,132,539	-2%	3,250,000	2%	3,132,539	3,250,000	3,191,269
5	Frac Tank	48,074	-5%	53,000	5%	48,074	53,000	50,537
6	Leachate Force Main	75,000	-3%	80,000	3%	75,000	80,000	77,500
7	Residual Transfer Line	7,500	-85%	90,000	85%	7,500	90,000	48,750
8	Load Out Pump Skid	22,038	-10%	27,000	10%	22,038	27,000	24,519
9	Limerock Driveway	113,950	31%	60,000	-31%	60,000	113,950	86,975
10	Leachate Evaporator System Building	364,180	-9%	435,000	9%	364,180	435,000	399,590
11	Booster Blower Skid	315,513	-5%	352,000	5%	315,513	352,000	333,756
12	Landfill Gas Piping	130,000	-21%	200,000	21%	130,000	200,000	165,000
13	Air Compressor Station	24,188	-5%	27,000	5%	24,188	27,000	25,594
14	Propane Piping	2,000	-90%	40,000	90%	2,000	40,000	21,000
15	Electrical Supply	182,875	-67%	930,000	67%	182,875	930,000	556,438
16	Yard Piping	50,000	-77%	390,000	77%	50,000	390,000	220,000
17	Leachate Supply Pumps	106,952	24%	65,000	-24%	65,000	106,952	85,976
18	Concrete Pads	671,120	38%	300,000	-38%	300,000	671,120	485,560
19	Interconnecting Wiring and Fiber Optics	730,392	51%	240,000	-51%	240,000	730,392	485,196
	TOTAL BASE BID:	$6,813,963.80		$7,419,000.00				

				APTIM ENVIRONMENTAL & INFRASTRUCTURE LLC		Unit Price Comparison	
Item No.	Description	Unit	Total Qty	Total Price	Unit Price	Avg	Dev from Avg
1	Mobilization/Demobilization	LS	1	$ 184,310.00	$ 184,310.00	$ 192,155.00	$ (7,845.00)
2	Enclosed Flare	EA	1	$ 420,147.50	$ 420,147.50	$ 427,573.75	$ (7,426.25)
3	Flare Blower Skid	EA	1	$ 233,187.75	$ 233,187.75	$ 239,093.88	$ (5,906.13)
4	Leachate Evaporator System	EA	1	$ 3,132,538.50	$ 3,132,538.50	$ 3,191,269.25	$ (58,730.75)
5	Frac Tank	EA	1	$ 48,074.00	$ 48,074.00	$ 50,537.00	$ (2,463.00)
6	Leachate Force Main	LS	1	$ 75,000.00	$ 75,000.00	$ 77,500.00	$ (2,500.00)
7	Residual Transfer Line	LS	1	$ 7,500.00	$ 7,500.00	$ 48,750.00	$ (41,250.00)
8	Load Out Pump Skid	EA	1	$ 22,037.50	$ 22,037.50	$ 24,518.75	$ (2,481.25)
9	Limerock Driveway	LS	1	$ 113,950.00	$ 113,950.00	$ 86,975.00	$ 26,975.00
10	Leachate Evaporator System Building	EA	1	$ 364,180.00	$ 364,180.00	$ 399,590.00	$ (35,410.00)
11	Booster Blower Skid	EA	1	$ 315,512.50	$ 315,512.50	$ 333,756.25	$ (18,243.75)
12	Landfill Gas Piping	LS	1	$ 130,000.00	$ 130,000.00	$ 165,000.00	$ (35,000.00)
13	Air Compressor Station	EA	1	$ 24,187.50	$ 24,187.50	$ 25,593.75	$ (1,406.25)
14	Propane Piping	LS	1	$ 2,000.00	$ 2,000.00	$ 21,000.00	$ (19,000.00)
15	Electrical Supply	LS	1	$ 182,875.00	$ 182,875.00	$ 556,437.50	$ (373,562.50)
16	Yard Piping	LS	1	$ 50,000.00	$ 50,000.00	$ 220,000.00	$ (170,000.00)
17	Leachate Supply Pumps	EA	1	$ 106,951.75	$ 106,951.75	$ 85,975.88	$ 20,975.88
18	Concrete Pads	LS	1	$ 671,119.50	$ 671,119.50	$ 485,559.75	$ 185,559.75
19	Interconnecting Wiring and Fiber Optics	LS	1	$ 730,392.30	$ 730,392.30	$ 485,196.15	$ 245,196.15
	TOTAL BASE BID:			$ 6,813,963.80			

Contingency Items

Item No.	Description	Unit	Est Qty	Total Price	Unit Price		
1	NA	NA					

		APTIM ENVIRONMENTAL & INFRASTRUCTURE LLC	SAWCROSS, INC.
Item No.	Description	Name	Name
	Undergound Utility		
	Electrical	MMR	Cogburn Bros.
	Plumbing	Two Fold Water Engineering	
	Mechanical		
	Sheet Metal		
	Roofing		
	Structural Welding		
	Carpentry		
	Concrete		
	Irrigation Installation		
	Non-Sturctural Siding		
	Water Treatment Equipment		
	Propane Specialty		
	Non-Electrical Signage		
	TOTAL BASE BID:		

JSEB	1.7%	1.8%

17	Leachate supply pumps (Includes supply, shipping and installation of the leachate supply pumps, support stand, piping and wiring within the leachate containment, controls and instrumentation, local control panel, testing and commissioning)	ea	1		
18	Concrete pads (Includes concrete pads for the flare blower skid, flare, leachate evaporator system blower skid, air compressor skid, loadout area, housekeeping pads, propane tank supports and pipe supports)	LS	1		
19	Interconnecting wiring and fiber optics (Includes all buried interconnecting wiring between junction boxes on various systems, trenching and backfilling)	LS	1		
	NOTE All items listed above as "included" in various systems are for reference and bid tabulation only. Complete supply shall be in full conformance with the requirements set forth in the contract documents. All items, whether listed here in or not, shall be provided in accordance with the contract documents to provide for a complete and operating system.				
				TOTAL BID (ITEM NOS. 1-19):	

Enter on Page (3-1)

B. **BASIS OF AWARD**

The project may be awarded to the lowest responsive, responsible Bidder contingent on the availability of funds within the project's approved budget. The Total Base Bid will be used to determine the lowest bidder.

C. **REVISIONS OF BID PROPOSAL FORM**

Request for revision of the Bid Proposal Form must be made to the ENGINEER at least ten (10) days prior to date of opening of Bids. Revision of the Bid Proposal by the Bidder will void the Bid.

TRAIL RIDGE LANDFILL PHASE 6
LANDFILL GAS SYSTEM – PHASE 2

SECTION 30

SCOPE OF WORK

30.1 SCOPE

The work covered by these plans and specifications consists of furnishing all labor, materials and equipment; and performing all operations necessary for the construction of Trail Ridge Landfill Phase 6 – Gas Collection System Phase 2, as specified in the Contract Documents.

A. The CONTRACTOR shall furnish all labor, materials, equipment and incidentals required to execute work in accordance with the Plans and Specifications for the Trail Ridge Landfill Construction, Phase 6 – Gas Collection System Phase 2 located at 5110 US Highway 301 South, Duval County, Florida. Components of this project include: installing gas collection system equipment and controls for landfill gas blowers, enclosed flare, and leachate evaporator, provide water and electric utilities to all equipment, and provide leachate supply line from existing leachate tank farm as shown on the Drawings and specified herein.

B. The Work includes, but is not necessarily limited to, the following:

1. Clearing and grubbing of the site as necessary
2. Connection to existing 20-in LFG Header
3. Installation of three LFG Blowers and associate controls and instrumentation
4. Installation of Enclosed Flare and assocaiated controls and equipment
5. Installation of LFG line from LFG Blowers to Enclosed Flare and on Site Leachate Evaporator
6. Installation of 40,000 gpd Leachate Evaporator and associated equipment and controls
7. Installation of venturi scrubber
8. Installation of leachate pump station and force main to transport leachate from existing tank foarm to proposed leachate evaporator
9. Insallation of loadout station for evaporator residual
10. Dewatering, as required, for the entire project. Obtain all permits necessary for dewatering.

30.2 JOB SITE LOCATIONS:

This project is located within the limits of the City of Jacksonville, Florida.

All of the work of this Contract is located in rights-of-way or on property owned by City of Jacksonville generally located at 5110 US Highway 301 S. in Duval County, Florida.

30.3 INTENT OF PROJECT:

It is the intent of these Contract Documents to construct the Trail Ridge Landfill Phase 6 – Gas Collection System Phase 2 project as shown on the plans and including but not limited to:

1. Earthwork
2. Utility Installation
3. Maintenance of Traffic

It is the intent of these Contract Documents to provide, the City of Jacksonville with a landfill gas collection system including landfill gas blowers, an enclosed flare, and leachate evaporator and all other appurtenences necessary for completion of project. It is not the intent of these Documents to minutely define the mode, means, methods, techniques, sequence or procedures of construction selected by the CONTRACTOR(S), or the safety precautions and programs incident to the work of the CONTRACTOR(S), but rather to set forth reasonable and rational criteria for the construction thereof.

All work called for in the Specifications applicable to this Contract, but not shown on the Plans in their present form, or vice versa, shall be of like effect as if shown or mentioned in both. Work not specified in either the Plans or in the Specifications, but involved in carrying out their intent or in the complete and proper execution of the work, is required and shall be performed by the CONTRACTOR as though it were specifically delineated or described.

The apparent silence of the Specifications as to any detail, or the apparent omission from them of a detailed description concerning any work to be done and materials to be furnished, shall be regarded as meaning that only the best general practice is to prevail and that only material and workmanship of the best quality is to be used, and interpretation of these Specifications shall be made upon that basis.

The inclusion of the General Requirements (or work specified elsewhere) in the General part of the Specifications is only for the convenience of the CONTRACTOR, and shall not be interpreted as a complete list of related Specification Sections.