

3 HMB Circle
 U.S. 460
 Frankfort, KY 40601
 Office: (502) 695-9800
 Fax: (502) 695-9810

April 2, 2010

Elwood Howe
 Rural Development
 220 West First Street
 Morehead, Ky 40351

RECEIVED

APR 23 2010
 PUBLIC SERVICE
 COMMISSION

Re: Final Engineering Report
 Garrison Sewer Project
 Garrison-Quincy Water District
 HMB #4021.01

2010-00163

Dear Mr. Howe:

As you are aware, the above referenced project was bid March 23, 2010. The low bidder for Contract I – Wastewater Collection System was B. P. Pipeline from Quincy, Kentucky. Their bid was \$2,501,700. The low bidder for Contract II – Wastewater Treatment Plant was EGC Construction from Newport, Kentucky. Their bid was \$1,433,195.

Following is a summary of the financing and budget for this project:

	<u>Project Budget</u>	<u>Letter of Conditions</u>	<u>As Bid</u>
	Development	\$4,080,000	\$3,934,895
	Land and Rights	\$60,000	\$60,000
Highway Engineering	Legal & Administration	\$35,000	\$75,000
	Engineering *	\$705,400	\$698,159
Structural Engineering	Initial O&M	\$60,000	\$60,000
Water & Wastewater	Interest	\$60,000	\$60,000
Site Development	<u>Contingencies</u>	<u>\$299,600</u>	<u>\$411,946</u>
Master Planning	Total Project Cost	\$5,300,000	\$5,300,000

* Attached is a breakdown of the Engineering Fees.

Financing:

	<u>Funding Source</u>	<u>Letter of Conditions</u>
	RUS Loan	\$798,000
	RUS Grant	\$429,500
Construction Inspection	HUD-CDBG Grant	\$1,600,000
Aviation Services	KIA Grant	\$2,450,000
	<u>Connection Fees</u>	<u>\$22,500</u>
Environmental Remediation	Total Project Cost	\$5,300,000



It appears the project can be completed within the available funding; therefore, we recommend this contract be approved and allowed to go forward. Please contact us if there are any questions.

Attached please find a copy of the Bid Tabulation for the project.

If you have any questions or need additional information, please call.

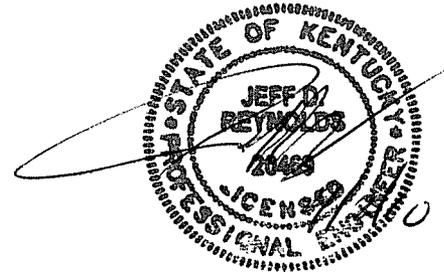
Sincerely,

HMB Professional Engineers, Inc.

A handwritten signature in black ink, appearing to read 'Jeff Reynolds', is written over a horizontal line.

Jeff Reynolds, P.E.

cc: John Pierce, GQWD
Tom Bertram, Attorney
Randy Jones, Bond Counsel
Kevin Cortette, BTADD





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EXPLANATION OF ENGINEERING FEES

Engineering Fees for Gravity System *

Wastewater Facilities Plan (Gravity)	\$30,000
Prelim. Engineering (Gravity)	\$15,000
Design (Gravity)	\$148,100
General Alignment Survey (Gravity)	\$21,189
RD Environmental	<u>\$2,000</u>
Total	\$216,289

Planning Services

Prelim. Engineering (Low Pressure)	\$15,000
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Engineering

Design (Low Press./WWTP)	\$272,200
Inspection	<u>\$170,700</u>
Total	\$442,900

Additional Engineering

Wastewater Facilities Plan Revision (Low Pressure)	\$10,000
Geotechnical Investigation	\$6,100
Public Service Commission	\$2,000
Contract Amendment #5	<u>\$5,870</u>
Total	\$23,970

* Engineering fees for the gravity system were previously paid with KIA Funds.

- Highway Engineering
- Structural Engineering
- Water & Wastewater
- Site Development
- Right-of-Way
- Master Planning
- Environmental Planning
- Surveying
- Project Management
- Cost Estimation
- Construction Inspection
- Aviation Services
- Environmental Remediation
- Landscape Architecture



Bid Tabulation
Garrison-Quincy Water District
Contract I - Wastewater Collection System
Bid Date: March 23, 2010 @ 1:00 PM local time

Project: 4021.01
 Date: 3.23.10
 Engineer: JDR
 Page: 1 of 2

ITEM No.	ITEM DESCRIPTION	QUANTITY	UNIT	B.P. Pipeline, LLC		Kenney, Inc.		Distel Construction, Inc.		Independent Excavating, Inc.		UNIT PRICE	TOTAL
				UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL		
1	6" PVC SDR-21 Force Main, Furnishing, Trenching, Installing and Backfilling (Unclassified Excavation)	2,750	LF	\$8.00	\$22,000.00	\$9.25	\$25,437.50	\$10.00	\$27,500.00	\$9.00	\$24,750.00		
2	4" PVC SDR-21 Force Main, Furnishing, Trenching, Installing and Backfilling (Unclassified Excavation)	5,000	LF	\$7.50	\$37,500.00	\$8.80	\$34,000.00	\$7.50	\$37,500.00	\$8.00	\$40,000.00		
3	3" PVC SDR-21 Force Main, Furnishing, Trenching, Installing and Backfilling (Unclassified Excavation)	19,000	LF	\$7.00	\$133,000.00	\$5.75	\$109,250.00	\$8.00	\$152,000.00	\$7.50	\$142,500.00		
4	2" PVC SDR-21 Force Main, Furnishing, Trenching, Installing and Backfilling (Unclassified Excavation)	21500	LF	\$6.50	\$139,750.00	\$5.20	\$111,800.00	\$7.50	\$161,250.00	\$7.50	\$161,250.00		
5	1-1/2" PVC SDR-21 Force Main, Furnishing, Trenching, Installing and Backfilling (Unclassified Excavation)	1100	LF	\$5.00	\$5,500.00	\$4.80	\$5,280.00	\$4.75	\$5,225.00	\$7.20	\$7,920.00		
6	18" Steel Casing by Bore & Jack under Railroad, Including restraints (F.M. Not Included)	100	LF	\$100.00	\$10,000.00	\$175.00	\$17,500.00	\$250.00	\$25,000.00	\$200.00	\$20,000.00		
7	10" Steel Casing by Bore & Jack under State, County and City Roads (F.M. Not Included)	35	LF	\$100.00	\$3,500.00	\$115.00	\$4,025.00	\$80.00	\$2,800.00	\$125.00	\$4,375.00		
8	8" Steel Casing by Bore & Jack under State, County and City Roads (F.M. Not Included)	945	LF	\$40.00	\$37,800.00	\$100.00	\$94,500.00	\$63.00	\$59,535.00	\$100.00	\$94,500.00		
9	4" Steel Casing by Bore & Jack under State, County and City Roads (F.M. Not Included)	440	LF	\$25.00	\$11,000.00	\$65.00	\$28,600.00	\$15.00	\$6,600.00	\$75.00	\$33,000.00		
10	Unclassified Bore and/or Jack under improved surfaces (All Sizes), including driveways, no casing required (F.M. Not Included)	500	LF	\$20.00	\$10,000.00	\$30.00	\$15,000.00	\$10.00	\$5,000.00	\$75.00	\$37,500.00		
11	3" Directional Bore Creek Crossing, Including PE Pipe (SDR-9) and Fittings. Complete in Place as shown on the Plans	400	LF	\$30.00	\$12,000.00	\$60.00	\$24,000.00	\$10.00	\$4,000.00	\$100.00	\$40,000.00		
12	2" Directional Bore, Including PE Pipe (SDR-9) and Fittings. Complete in Place as shown on the Plans	290	LF	\$15.00	\$4,350.00	\$45.00	\$13,050.00	\$10.00	\$2,900.00	\$95.00	\$27,550.00		
13	Open Cut Furnishing and Installing 8" PVC Casing (F.M. Not Included)	200	LF	\$15.00	\$3,000.00	\$20.00	\$4,000.00	\$10.00	\$2,000.00	\$75.00	\$15,000.00		
14	Open Cut Furnishing and Installing 4" PVC Casing (F.M. Not Included)	200	LF	\$10.00	\$2,000.00	\$14.00	\$2,800.00	\$8.00	\$1,600.00	\$75.00	\$15,000.00		
15	4" CI AWWA NRS Gate Valve and Box, Concrete Pad, Complete in Place	4	EA	\$530.00	\$2,120.00	\$585.00	\$2,340.00	\$6.00	\$24.00	\$600.00	\$2,400.00		
16	3" CI AWWA NRS Gate Valve and Box, Concrete Pad, Complete in Place	18	EA	\$450.00	\$8,100.00	\$335.00	\$9,630.00	\$470.00	\$8,460.00	\$575.00	\$10,350.00		
17	2" CI AWWA NRS Gate Valve and Box, Concrete Pad, Complete in Place	31	EA	\$330.00	\$10,230.00	\$410.00	\$12,710.00	\$375.00	\$11,625.00	\$525.00	\$16,275.00		
18	End of Line Flushing Connection, Complete in Place as shown on the Plans	33	EA	\$500.00	\$16,500.00	\$1,500.00	\$49,500.00	\$8.00	\$264.00	\$900.00	\$29,700.00		
19	Residential Grinder Pump Station with HDPE Wet Well, Furnishing and Installing Complete in Place as Shown on Detail Sheet	410	EA	\$3,400.00	\$1,394,000.00	\$3,150.00	\$1,291,500.00	\$3,400.00	\$1,394,000.00	\$3,750.00	\$1,537,500.00		
20	Duplex Grinder Pump Station with HDPE Wet Well, Furnishing and Installing Complete in Place as Shown on Detail Sheet	1	EA	\$15,000.00	\$15,000.00	\$15,500.00	\$15,500.00	\$7,330.00	\$7,330.00	\$7,650.00	\$7,650.00		
21	2" HDPE Wet Well Extension, Including furnishing and installation	10	EA	\$400.00	\$4,000.00	\$530.00	\$5,300.00	\$400.00	\$4,000.00	\$600.00	\$6,000.00		



Bid Tabulation
Garrison-Quincy Water District
Contract I - Wastewater Collection System
Bid Date: March 23, 2010 @ 1:00 PM local time

Project: 4021.01
 Date: 3.23.10
 Engineer: JDR
 Page: 2 of 2

ITEM No.	ITEM DESCRIPTION	QUANTITY	UNIT	B.P. Pipeline, LLC		Kenney, Inc.		Distel Construction, Inc.		Independent Excavating, Inc.		UNIT PRICE	TOTAL
				UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL		
22	Additional Power Cable, including Furnishing and Installation where required in addition to the standard 32' supplied with each grinder pump station	100	LF	\$4.00	\$400.00	\$35.00	\$3,500.00	\$2.25	\$225.00	\$3.00	\$300.00		
23	Spare Grinder Unit, Complete with controls, level sensors, check valve, pump/motor unit and grinder	10	EA	\$1,300.00	\$13,000.00	\$1,450.00	\$14,500.00	\$1,300.00	\$13,000.00	\$1,250.00	\$12,500.00		
24	Spare Grinder Pump Station including wet well, grinder unit, controls, alarm panel, power cable, etc.	5	EA	\$1,800.00	\$9,000.00	\$2,300.00	\$11,500.00	\$2,100.00	\$10,500.00	\$2,100.00	\$10,500.00		
25	Lateral Assembly Kit, Including Valve, Check Valve, etc. Complete in Place as Shown on Detail Sheet	411	EA	\$250.00	\$102,750.00	\$365.00	\$150,015.00	\$275.00	\$113,025.00	\$450.00	\$184,950.00		
26	1-1/4" HDPE Service Line, DR-11, Furnishing, Trenching, Installing and Backfilling (Unclassified Excavation)	31000	LF	\$4.50	\$139,500.00	\$3.80	\$117,800.00	\$7.00	\$217,000.00	\$7.50	\$232,500.00		
27	2-1/2" PVC Service Line Bore, Under Improved Surfaces and Driveways, Including Unclassified Bore and/or Jack (Service Line Not Included)	2,500	LF	\$5.00	\$12,500.00	\$27.50	\$68,750.00	\$10.00	\$25,000.00	\$30.00	\$75,000.00		
28	Automatic Air Release/Vacuum Valve Assembly and Box, Complete in Place as Shown on Detail Sheet	3	EA	\$1,900.00	\$5,700.00	\$1,650.00	\$4,950.00	\$2,500.00	\$7,500.00	\$3,000.00	\$9,000.00		
29	Crushed Stone on Trench Surface at Driveways, Roadway Crossings and Streets, Full Depth of Ditch	2000	LF	\$10.00	\$20,000.00	\$9.40	\$18,800.00	\$300.00	\$600,000.00	\$25.00	\$50,000.00		
30	Bituminous Paving Replacement on County Roads and Driveways, Including gravel backfill	1,000	LF	\$25.00	\$25,000.00	\$22.20	\$22,200.00	\$5.00	\$5,000.00	\$40.00	\$40,000.00		
31	Concrete Paving Replacement, Including Gravel backfill	500	EA	\$30.00	\$15,000.00	\$40.00	\$20,000.00	\$6.50	\$3,250.00	\$75.00	\$37,500.00		
32	Flowable Fill Concrete, including, sand and flowable fill as shown on detail sheet and described in specs (Bit. Replacement Not Included)	500	LF	\$15.00	\$7,500.00	\$30.50	\$15,250.00	\$19.00	\$9,500.00	\$35.00	\$17,500.00		
33	Garrison Lane Pump Station, including but not limited to furnishing and installing two (2) 180 gpm pumps, all piping, valving, valve vault, wet well, controls, site work, power pole, etc. (Complete in Place)	1	LS	\$65,000.00	\$65,000.00	\$112,500.00	\$112,500.00	\$89,000.00	\$89,000.00	\$76,000.00	\$76,000.00		
34	Benleyville Pump Station, including but not limited to furnishing and installing two (2) 59 gpm pumps, all piping, valving, valve vault, wet well, controls, site work, power pole, etc. (Complete in Place)	1	LS	\$50,000.00	\$50,000.00	\$87,275.00	\$87,275.00	\$70,000.00	\$70,000.00	\$65,000.00	\$65,000.00		
35	Odor Control System, including but not limited to injection manholes, odor control vault, PVC conduit, tubing, air hose, flow switch, etc. (Complete in Place)	1	LS	\$10,000.00	\$10,000.00	\$17,000.00	\$17,000.00	\$8,750.00	\$8,750.00	\$12,000.00	\$12,000.00		
36	Activated Carbon Absorber (Odor Controls), including blower, container, media, piping, electrical conc. Pad, etc. (Complete in Place)	1	LS	\$24,000.00	\$24,000.00	\$14,300.00	\$14,300.00	\$11,284.00	\$11,284.00	\$20,000.00	\$20,000.00		
37	LMI Service Line, including service line, tees, vent, plumbing permit, etc. (10' max of service line)	150	EA	\$800.00	\$120,000.00	\$850.00	\$127,500.00	\$400.00	\$60,000.00	\$500.00	\$75,000.00		
38	Additional LMI Service Line, where required in addition to maximum lengths	100	LF	\$10.00	\$1,000.00	\$26.50	\$2,650.00	\$20.00	\$2,000.00	\$7.50	\$750.00		
BID TOTALS:					\$2,501,700.00		\$2,684,212.50		\$3,163,647.00		\$3,191,720.00		

This is to state that the above is an accurate tabulation of bids received on March 23, 2010 by Garrison-Quincy Water District for Contract I - Wastewater Collection System

Denotes an error in the bid

Signed:



Bid Tabulation
 Garrison-Quincy Water District
 Contract II - Wastewater Treatment Plant
 Bid Date: March 23, 2010 @ 1+D35:00 PM local time

Project: 4021.01
 Date: 3.23.10
 Engineer: JDR
 Page: 1 of 2

ITEM No.	ITEM DESCRIPTION	QUANTITY	UNIT	EGC Construction		Mack Industries		R. J. Construction, Inc.		Winelco, Inc.		PAE & Associates, Inc.	
				UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL
1	Furnish & Install 114,000 gallon per day Package Wastewater Treatment Plant including but not limited to all equipment, labor, machinery and materials necessary to construct concrete surge tank, pumps, controls, valves, treatment plant, blowers, diffusers, UV disinfection, etc.	1	LS	\$1,295,488.00	\$1,295,488.00	\$1,297,088.00	\$1,297,088.00	\$1,326,275.55	\$1,326,275.55	\$1,325,000.00	\$1,325,000.00	\$1,453,870.00	\$1,453,870.00
2	8" SDR-35 PVC Gravity Sewer (0'-10' deep)	768	LF	\$27.50	\$21,120.00	\$34.00	\$26,112.00	\$47.51	\$36,487.68	\$40.00	\$30,720.00	\$20.00	\$15,360.00
3	8" SDR-35 PVC Gravity Sewer (10'-15' deep)	911	LF	\$37.00	\$33,707.00	\$50.00	\$45,550.00	\$49.37	\$44,976.07	\$50.00	\$45,550.00	\$20.00	\$18,220.00
4	8" C-900 CL 200 PVC Gravity Sewer (Over 15' deep)	955	LF	\$56.00	\$53,480.00	\$70.00	\$66,850.00	\$50.54	\$48,265.70	\$70.00	\$66,850.00	\$34.00	\$32,470.00
5	Standard 4' Diameter Manhole (0'-8') with Frme & Lid	10	EA	\$2,520.00	\$25,200.00	\$3,000.00	\$30,000.00	\$2,709.00	\$27,090.00	\$3,800.00	\$38,000.00	\$1,800.00	\$18,000.00
6	Manhole Extra Depth (Over 8')	48	VF	\$87.50	\$4,200.00	\$300.00	\$14,400.00	\$82.00	\$3,936.00	\$300.00	\$14,400.00	\$210.00	\$10,080.00
BID TOTALS:					\$1,433,195.00		\$1,480,000.00		\$1,487,031.00		\$1,520,520.00		\$1,548,000.00

ITEM No.	ITEM DESCRIPTION	QUANTITY	UNIT	Herrick Company, Inc.		Foll, Inc.		AST Environmental, Inc.		Howard Eng. & Construction		Building Crafts, Inc.	
				UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL
1	Furnish & Install 114,000 gallon per day Package Wastewater Treatment Plant including but not limited to all equipment, labor, machinery and materials necessary to construct concrete surge tank, pumps, controls, valves, treatment plant, blowers, diffusers, UV disinfection, etc.	1	LS	\$1,435,993.00	\$1,435,993.00	\$1,486,306.30	\$1,486,306.30	\$1,469,942.00	\$1,469,942.00	\$1,550,000.00	\$1,550,000.00	\$1,757,074.00	\$1,757,074.00
2	8" SDR-35 PVC Gravity Sewer (0'-10' deep)	768	LF	\$39.00	\$29,952.00	\$37.30	\$28,648.40	\$51.00	\$39,168.00	\$45.00	\$34,560.00	\$44.00	\$33,792.00
3	8" SDR-35 PVC Gravity Sewer (10'-15' deep)	911	LF	\$39.00	\$35,529.00	\$53.30	\$48,556.30	\$66.00	\$60,126.00	\$55.00	\$50,105.00	\$48.00	\$43,728.00
4	8" C-900 CL 200 PVC Gravity Sewer (Over 15' deep)	955	LF	\$50.00	\$47,750.00	\$90.20	\$86,141.00	\$95.00	\$90,725.00	\$70.00	\$66,850.00	\$55.00	\$52,625.00
5	Standard 4' Diameter Manhole (0'-8') with Frme & Lid	10	EA	\$1,870.00	\$18,700.00	\$4,056.00	\$40,560.00	\$3,680.00	\$36,800.00	\$2,000.00	\$20,000.00	\$2,290.00	\$22,900.00
6	Manhole Extra Depth (Over 8')	48	VF	\$110.00	\$5,280.00	\$100.00	\$4,800.00	\$355.00	\$17,040.00	\$80.00	\$3,840.00	\$50.00	\$2,400.00
BID TOTALS:					\$1,573,204.00		\$1,695,000.00		\$1,713,801.00		\$1,725,355.00		\$1,912,419.00

ITEM No.	ITEM DESCRIPTION	QUANTITY	UNIT	Mechanical Construction		B.P. Pipeline		Kenney, Inc.	
				UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL
1	Furnish & Install 114,000 gallon per day Package Wastewater Treatment Plant including but not limited to all equipment, labor, machinery and materials necessary to construct concrete surge tank, pumps, controls, valves, treatment plant, blowers, diffusers, UV disinfection, etc.	1	LS	\$1,643,111.00	\$1,643,111.00	\$1,850,000.00	\$1,850,000.00	\$1,917,351.00	\$1,917,351.00
2	8" SDR-35 PVC Gravity Sewer (0'-10' deep)	768	LF	\$68.36	\$52,500.48	\$80.00	\$61,440.00	\$37.00	\$28,416.00
3	8" SDR-35 PVC Gravity Sewer (10'-15' deep)	911	LF	\$90.29	\$82,254.19	\$95.00	\$86,545.00	\$88.00	\$80,168.00
4	8" C-900 CL 200 PVC Gravity Sewer (Over 15' deep)	955	LF	\$111.18	\$106,176.90	\$100.00	\$95,500.00	\$115.00	\$109,825.00
5	Standard 4' Diameter Manhole (0'-8') with Frme & Lid	10	EA	\$2,333.50	\$23,335.00	\$1,400.00	\$14,000.00	\$2,800.00	\$28,000.00
6	Manhole Extra Depth (Over 8')	48	VF	\$438.02	\$21,024.96	\$150.00	\$7,200.00	\$130.00	\$6,240.00
BID TOTALS:					\$2,114,685.00		\$2,114,685.00		\$2,170,000.00

Denotes an error in the bid.

This is to state that the above is an accurate tabulation of bids received on March 23, 2010 by Garrison-Quincy Water District for Contract II - Wastewater Treatment Plant.

Signature:
 Jeff Reynolds
 Kentucky PE No. 20469