

**West Jackson County Utility District
7200 McCann Road
Biloxi, Mississippi 39532
August 17, 2023**

Regular Meeting

MINUTES

1.0 Call Meeting to Order:

The West Jackson County Utility District (WJCUD) convened the scheduled board meeting August 17, 2023, at the WJCUD general office building, 7200 McCann Road, Biloxi, MS. The meeting was called to order by Mr. Bryan David, Vice-Chairman of the Board, at 9:02 A.M., and it was determined that a quorum was present. A notice was posted informing the public of the meeting time. The following individuals were present:

Mr. Bryan David	Vice-Chairman, WJCUD
Mr. Andrew Westfall	Secretary/Treasurer, WJCUD
Mr. Curtis Spiers	Commissioner, WJCUD
Mr. Josh Danos	Board Attorney, WJCUD
Mr. Brian Bennett	Interim Director & Construction Manager, WJCUD
Ms. Laura Davis	Financial Controller, WJCUD
Ms. Donna Catalanatto	Human Resources Manager, WJCUD
Ms. Whitney McCarra	Accountant II, WJCUD
Ms. Amanda Parisi	Assets Manager & Grants Administrator, WJCUD

Members of the Public:

Mr. Jason Polite – Machado Patano dba MP Design Group

2.0 Invocation / Pledge of Allegiance

Opening prayer was given by Laura Davis – Wells of Southgate Ministries / Sound House Church.

3.0 Change to Meeting Agenda

4.0 Community Input

5.0 Consent Agenda

5.1 Reading of Previous Minutes

5.2 Financial Reports

5.3 Purchase Requisitions

5.4 Docket of Claims

Lines 1 – 92 / \$1,610,675.57

5.5 Leak Credits

5.6 Grinder Station Approvals

Mr. Spiers made a motion, seconded by Mr. Westfall, approving the Consent Agenda as presented. Motion passed unanimously.

6.0 Old Business

6.1 Wastewater Facilities Plan, Phase IV

Mr. Spiers made a motion, seconded by Mr. Westfall, approving Wastewater Facility Improvement Project Pay Application No. 8 to CB Developers, Inc. in the amount of \$910,044.58 as recommended by Machado Patano, contingent upon approval by the Mississippi Department of Environmental Quality for currently reimbursable items. Motion passed unanimously.

6.2 Quail Creek Gravity Interceptor, Phase II

Mr. Westfall made a motion, seconded by Mr. Spiers, approving Quail Creek Gravity Interceptor, Phase II, Pay Application No. 2 to L-J Construction, Inc. in the amount of \$47,580.25 as recommended by Machado Patano. Motion passed unanimously.

6.3 Gravity Sewer Along Old Fort Bayou Road

Mr. Westfall made a motion, seconded by Mr. Spiers, approving a resolution and order to condemn an easement across property described as PIDN 03009220.020 from Todd and Patty Carmel for a sum of \$1,500.00 in exchange for the easement rights. Motion passed unanimously.

7.0 New Business

7.1 Wastewater Facilities Plan, Phase III Bid Award

Mr. Spiers made a motion, seconded by Mr. Westfall, approving the recommendation from MP Design Group for engineering services for Wastewater Facilities Plan, Phase

III, and awarding the base bid contract in the amount of \$3,730,355.96 to Bottom 2 Top Construction contingent upon communication verification that there was a typo on a line-item amount. Motion passed unanimously.

7.2 WJCUD Credit Card Authorization – Interim Director

Mr. Spiers made a motion, seconded by Mr. Westfall, authorizing and approving a WJCUD credit card for the newly appointed Interim Director, Brian Bennett. Motion passed unanimously.

7.3 WJCUD Employee Handbook Revision

Mr. Westfall made a motion, seconded by Mr. Spiers, approving certain revisions to the WJCUD Employee Handbook, including provisions relating to business hours. Motion passed unanimously.

7.4 Employees' Personal Belongings

Tabled

7.5 Consideration of Change in Board Meeting Frequency

Mr. Spiers made a motion, seconded by Mr. Westfall, approving a change in Board Meeting frequency effective September 2023 to two meetings per month occurring on the first and third Thursday at 9:00 AM with the first meeting of the month being set for department head updates as needed, unless otherwise stated. Motion passed unanimously.

8.0 Correspondence

Included for the Board's review was the following:

- WJCUD Organizational Chart (2023 08 04)
- WJCUD Board Member Listing (2023 08 04)
- Coastal Constructors, LLC payment (2023 07 25) – regarding Alexis Crossing Subdivision Ph 1
- WJCUD letter (2023 07 23) – to Jackson County regarding Jackson County Ad Valorem Tax Request for FYE 09-30-2024 Budget
- MDEQ letter (2023 08 10) – to WJCUD regarding Acceptance – Engineering Approval for Restore Grant

- Board of Supervisors of Jackson County Resolution (2023 08 07) – regarding MCWI Fully Executed County Grant Contract
- JCUA letter (2023 08 10) – to WJCUD regarding JCUA Proposed Budget and Fee Schedule – FY 2024
- JCPC Minutes (2023 06 21) – regarding Jackson County Planning / Zoning Meeting Minutes

9.0 District Operations

9.1 Attorney Report

9.2 Director Report

Updates were given on the following:

- New shifts started last week
- 2021 Toyota Highlander to Professional Collision for repairs 8-9-2023
 - Out of pocket expense for both claims will be between \$700-\$1,000 depending on Uninsured Motorist Claim for first incident
- Billing Summary for July 2023
 - \$948,637.42 (compared to \$870,465.01 in July 2022) 4.6% increase
 - 8,590 active customers (compared to 8,332 in July 2022) 3.1% growth
- Water Production – July 2023
 - 58.6 MG - Total Production
 - 51.8 MG – Water Sold
 - 4.1 MG – Flushing
 - 2.8 MG – Unaccounted For (5%)
- Income Statement – FY 2023 nine months ending July 31, 2023
- Liquid Assets – as of July 31, 2023

10.0 Executive Session – If So Move

A motion was by Mr. Spiers, seconded by Mr. Westfall, to enter executive session to discuss personnel matters. Motion passed unanimously.

Mr. Spiers made a motion, seconded by Mr. Westfall, to approve the quote with Protect Your Assets, LLC. Motion passed unanimously.

Mr. Westfall made a motion, seconded by Mr. Spiers, to approve the amended job description for Director. Motion passed unanimously.

Mr. Spiers made a motion, seconded by Mr. Westfall, to enter open session. Motion passed unanimously.

11.0 Other Business

12.0 Adjournment

A motion was made by Mr. Spiers, seconded by Mr. Westfall, to adjourn the meeting at 10:06 A.M., August 17, 2023. Motion passed unanimously.



Andrew Westfall
SECRETARY/TREASURER, WJCUD

ORDER NUMBER _____

WHEREAS, the West Jackson County Utility District (hereinafter, "the District") has entered into a contract with CB Developers, Inc. (hereinafter, "CBD") relating to Wastewater Facility Improvement Project, Phase 4; and

WHEREAS, Staff requests Board consideration and approval of **Pay Application No. 8** for the amount of **\$910,044.58** as recommended by Machado Patano, contingent upon approval by the Mississippi Department of Environmental Quality for currently reimbursable items; and

WHEREAS, the Board of Commissioners hereby finds that approval of this request is in the best interests of the District;

IT IS THEREFORE ORDERED by the Board of Commissioners of West Jackson County Utility District, that Pay Application 8 is hereby approved and authorized, contingent upon approval by the Mississippi Department of Environmental Quality.

IT IS FURTHER ORDERED that the Interim Director is authorized to execute any and all documents necessary for this purpose.

The motion to approve the foregoing Order was made by Spiers, seconded by Westfall, and the following vote was recorded:

Chairman Montgomery absent
Commissioner Spiers yes
Commissioner Strayham absent
Commissioner Westfall yes
Commissioner David yes

WHEREUPON, the Board of Commissioners of West Jackson County Utility District, declared the motion carried and the Order adopted this the 17th day of August, 2023.



~~Mike Montgomery, Chairman~~

Bryan David, Vice-Chairman

ATTEST:

Donna Catalanatto



ORDER NUMBER _____

WHEREAS, the West Jackson County Utility District (hereinafter, "the District") has entered into a contract with L-J Construction, Inc. (hereinafter, "L-J") relating to the Quail Creek Interceptor Project; and

WHEREAS, St aff requests Board consideration and approval of Pay Application No. 2 for the amount of \$47,580.25 as recommended by Machado Patano; and

WHEREAS, the Board of Commissioners hereby finds that approval of this request is in the best interests of the District;


IT IS THEREFORE ORDERED by the Board of Commissioners of West Jackson County Utility District, that Pay Application 2 is hereby approved and authorized.

IT IS FURTHER ORDERED that the Director is authorized to execute any and all documents necessary for this purpose.

The motion to approve the foregoing Order was made by Westfall, seconded by Spiers, and the following vote was recorded:

- Chairman Montgomery absent
- Commissioner Spiers yes
- Commissioner Strayham absent
- Commissioner Westfall yes
- Commissioner David yes

WHEREUPON, the Board of Commissioners of West Jackson County Utility District, declared the motion carried and the Order adopted this the 17th day of August, 2023.



 Mike Montgomery, Chairman
 Bryan David, Vice-Chairman

ATTEST:

Donna Catalanatto



JACKSON COUNTY, MISSISSIPPI
WEST JACKSON COUNTY UTILITY DISTRICT

RESOLUTION TO APPROVE SETTLEMENT

ITEM _____

On the 20th day of April, A.D., 2023, The West Jackson County Utility District (hereinafter "District"), acting by and through its Board, approved a Resolution and Order to Condemn an easement across property described as PIDN 03009220.020 from Todd and Patty Carmel. The Board is now advised that a compromise settlement agreement has been proposed by the owners of said property whereby the District will pay to the Defendants a sum of One Thousand Five Hundred Dollars (\$1,500.00) in exchange for the easement rights.

The Board, being advised by its legal counsel that the settlement is beneficial to the District considering the time and expense for its attorneys and experts to prepare for trial; the potential of project delays; and the risk of an adverse jury verdict. The District, after solemn due consideration, accepts the terms of the settlement as stated above, and authorizes and requests its attorney and/or other necessary professionals to execute on its behalf the documents to complete the settlement.

The above and foregoing Resolution was introduced by Westfall, seconded by Spiers, and was adopted by the following vote, to wit:

Yeas:
David Westfall
Spiers

Nays:

Absent:
Montgomery
Strayham

The Chairman hereby declared the Motion carried and the Resolution was adopted, this the 17th day of August A.D., 2023.

{SEAL}



Donna Catalanatto

A handwritten signature in black ink, appearing to be "Bryan David", written over a horizontal line.

~~Chairman~~ Vice-Chairman
Bryan David



West Jackson County Utility District

Physical Address:
7200 McCann Road
Biloxi, MS 39532

Mailing Address:
P.O. Box 1230
Ocean Springs, MS 39566-1230

Phone (228) 872-3898

www.wjcupd.com

Fax (228) 872-3861

BOARD MEETING SIGN IN SHEET

DATE 08/17/2023

1: JASON POVITE

2: _____

3: _____

4: _____

5: _____

6: _____

7: _____

8: _____

9: _____

10: _____

West Jackson County Utility District
Docket of Claim
As of August 17, 2023

	Vendor			
1	Ace Data Storage, Inc.	30.00		\$30.00
2	Advance Auto Parts (2 invoices)	89.49		\$89.49
3	AGJ Systems & Networks Inc. (3 invoices)	3,983.50		\$3,983.50
4	All Occasion Flags / Sylvia Spratley	128.00		\$128.00
5	Amazon Business	120.15	Paid Online	\$120.15
6	AnSer	1,488.13		\$1,488.13
7	Auto Air of Diberville	380.00		\$380.00
8	AutoZone (4 invoices)	167.14		\$167.14
9	Bay Motor Winding, Inc.	33,644.00		\$33,644.00
10	Bay Pest Control, Inc.	75.00		\$75.00
11	Benvenuti Electric, Inc.	430.00		\$430.00
12	Blue Cross Blue Shield	24,324.42	Auto Draft	\$24,324.42
13	Bordis & Danos	5,000.00		\$5,000.00
14	Bottom to Top Construction	54,011.00		\$54,011.00
15	Brown, Mitchell & Alexander	252.00		\$252.00
16	C Spire	1,070.27	Auto Draft	\$1,070.27
17	Cannon Chrysler Jeep Dodge (2 invoices)	67,132.00		\$67,132.00
18	Capital One / Walmart	70.60	Paid Online	\$70.60
19	Cardmember Service/Elan CC	2,064.18	Paid Online	\$2,064.18
20	Center Point Energy (3 invoices)	100.56	Auto Draft	\$100.56
21	Cintas Corp (4 invoices)	1,155.38		\$1,155.38
22	Coast Chlorinator & Pump Co	2,257.60		\$2,257.60
23	Consolidated Pipe	1,950.00		\$1,950.00
24	CUSI (4 invoices)	28,751.30		\$28,751.30
25	David, Bryan (07/20/23 & 08/02/23)	80.00	DD	\$80.00
26	Delta Industries Inc. (2 invoices)	3,003.00		\$3,003.00
27	DMS Mail Management (3 invoices)	6,344.70	Auto Draft	\$6,344.70
28	Dunaway Signs	264.00		\$264.00
29	First Advantage Background Svc.	41.46		\$41.46
30	Fuelman (6 invoices)	7,767.26	Paid Online	\$7,767.26
31	Galloway, Johnson, Tompkins, Burr & Smith	407.00		\$407.00
32	Grease Monkey/Wisconsin Quick Lube(8 invoices)	961.09		\$961.09
33	Guardian	2,959.94	Auto Draft	\$2,959.94
34	Gulf Breeze Landscaping	2,380.00		\$2,380.00
35	Gulf Coast Pump (2 invoices)	5,944.50		\$5,944.50
36	Gulf South Janitorial	950.00		\$950.00
37	Hometown Lumber Company	79.90		\$79.90
38	IBS of South Mississippi	126.95		\$126.95
39	IVR Technology Group, LLC	280.73		\$280.73
40	Jack Henry	118.35	Auto Draft	\$118.35
41	Jackson County Utility Authority	201,210.00		\$201,210.00
42	Jay Lee Company LLC (2 invoices)	750.00		\$750.00
43	Josh Eldridge / JC Chancery Clerk	26.00		\$26.00
44	Kloud 7 LLC	253.02		\$253.02

West Jackson County Utility District
Docket of Claim
As of August 17, 2023

Vendor			
45	Lenny's Automotive	457.95	\$457.95
46	Lowe's	257.47	Paid Online \$257.47
47	Machado Patano (5 invoices)	70,570.00	\$70,570.00
48	Maddox Concrete Const. (2 invoices)	5,739.00	\$5,739.00
49	Magnolia Consultants, LLC	1,750.00	\$1,750.00
50	Micro-Methods, Inc. (2 invoices)	120.00	\$120.00
51	Mississippi Power	135.82	Auto Draft \$135.82
52	Mississippi Utilities/Fergusons (9 invoices)	11,115.39	\$11,115.39
53	Mobile Solvent and Supply	3,373.50	\$3,373.50
54	Montgomery, Michael (07/20/23 & 08/02/23)	80.00	DD \$80.00
55	odp/ Office Depot	244.66	\$244.66
56	Petty Cash	18.61	\$18.61
57	Pittman Howdeshell (2 invoices)	1,463.71	\$1,463.71
58	Power Systems of Ms., LLC	1,000.00	\$1,000.00
59	Sams Club	571.32	Paid Online \$571.32
60	Seymour Engineering	7,500.00	\$7,500.00
61	Singing River Electric (3 invoices)	18,398.98	Auto Draft \$18,398.98
62	Singing River Health System	19.00	\$19.00
63	South Ms. Business Machines	275.11	\$275.11
64	Southern Linc (3 invoices)	875.98	\$875.98
65	Southern Pipe & Supply (10 invoices)	32,273.28	\$32,273.28
66	Southern Pro Truck (2 invoices)	3,266.00	\$3,266.00
67	Southern Tire Mart	705.40	\$705.40
68	Spiers, Curtis (08/02/23)	40.00	DD \$40.00
69	Sport About	1,223.60	\$1,223.60
70	Staples, Inc.	73.01	\$73.01
71	Strayham, Joan (08/02/23)	40.00	DD \$40.00
72	Uniti Fiber / Southern Lights LLC (2 invoices)	900.00	\$900.00
73	Val Security	350.00	\$350.00
74	Verizon Connect (3 invoices)	159.00	\$159.00
75	Ward Engineering, Inc.	21,150.00	\$21,150.00
76	Waste Pro	387.58	Auto Draft \$387.58
77	Westfall, Andrew (7/20/23 & 08/02/23)	80.00	DD \$80.00
78	Wright, J.H. & Assoc. (4 invoices)	137,730.00	\$137,730.00
79	Deposit Refunds	\$8,232.97	\$8,232.97
TOTAL ACCOUNTS PAYABLE		\$793,199.96	\$793,199.96
Notes Payable, P/R, Taxes			
80	Payrolls 7/31/23 & 8/14/23 NET	\$94,234.87	DD \$94,234.87
81	Payroll 941 taxes 7/31/23 & 08/14/23	\$28,964.28	Paid Online \$28,964.28
82	PERS contributions JULY 2023	\$31,503.11	Paid Online \$31,503.11
83	MS Dept of Revenue-JULY 2023 PR Tax Whldg	\$5,821.00	Paid Online \$5,821.00
84	MS Dept of Revenue JULY 2023 SALES TAX	\$5,106.61	Paid Online \$5,106.61
85	AFLAC (Employee Funded)	\$1,500.08	Paid Online \$1,500.08
86	MSDEQ C280870-04-02	\$18,783.65	\$18,783.65

West Jackson County Utility District
Docket of Claim
As of August 17, 2023

Vendor			
87	MSDEQ C280870-02-02	\$12,245.38	\$12,245.38
88	MSDEQ C280870-03-02	\$39,896.42	\$39,896.42
89	MSDH Loans -03,04, 05, 06 & 07 & 08	\$89,337.43	\$89,337.43
	Total N/P, P/R & Taxes	\$327,392.83	\$327,392.83
TOTAL OPERATING FUNDS DOCKET		\$1,120,592.79	\$1,120,592.79
CONSTRUCTION PAYMENTS			
<u>APPROVED BY BOARD: 7/20/2023</u>			
90	CB Developers SWR PH 4A - Pay App #7	\$446,858.78	\$446,858.78
91	L-J Contruction QC PH II - Pay App #1	\$9,500.00	\$9,500.00
92	DNP AMI PH 2 - Pay App #1	\$33,725.00	\$33,725.00
TOTAL CONSTRUCTION PAYMENTS		\$490,083.78	\$490,083.78
MISCELLANEOUS			
<u>APPROVED BY BOARD</u>			
			\$0.00
TOTAL MISC		\$0.00	\$0.00
TOTAL DOCKET			\$1,610,676.57

Wastewater Facility Improvement Project Ph 3 - SRF - C280- 870-05
Jackson County, MS

CONTRACTOR'S BID TABULATION - 1

Bids Received: July 12, 2023, Wednesday -2:00 PM

CERTIFICATE OF RESPONSIBILITY

BID BOND / NON-COLLUSION

Addendum 1

Addendum 2

Addendum 3



DNA Underground, LLC

20907-MC

Yes/Yes

Yes

Yes

Bottom 2 Top Construction LLC

23104-MC

Yes/Yes

Yes

Yes

ITEM NO.	DESCRIPTION	QTY	UNIT	UNIT PRICE	EXTENSION	UNIT PRICE	EXTENSION	UNIT PRICE	EXTENSION
1	MOBILIZATION	1	LS	\$ 20,000.00	\$ 20,000.00	\$ 350,000.00	\$ 350,000.00	\$ -	\$ -
2	PROJECT VIDEO	1	LS	\$ 3,000.00	\$ 3,000.00	\$ 5,000.00	\$ 5,000.00	\$ -	\$ -
3	MAINTENANCE OF TRAFFIC	1	LS	\$ 12,000.00	\$ 12,000.00	\$ 50,000.00	\$ 50,000.00	\$ -	\$ -
4	CLEARING AND GRUBBING (PM)	8	ACRE	\$ 10,500.00	\$ 84,000.00	\$ 8,000.00	\$ 64,000.00	\$ -	\$ -
5	REMOVAL OF FENCE, ALL TYPES	300	LF	\$ 10.00	\$ 3,000.00	\$ 6.00	\$ 1,800.00	\$ -	\$ -
6	REMOVAL OF OBSTRUCTIONS	1000	CY	\$ 10.00	\$ 10,000.00	\$ 20.00	\$ 20,000.00	\$ -	\$ -
7	REMOVAL OF EXISTING LIFT STATION - PORTLAND	1	LS	\$ 16,220.00	\$ 16,220.00	\$ 25,000.00	\$ 25,000.00	\$ -	\$ -
8	REMOVAL OF EXISTING LIFT STATION - TRENTON	1	LS	\$ 16,220.00	\$ 16,220.00	\$ 25,000.00	\$ 25,000.00	\$ -	\$ -
9	REMOVAL OF EXISTING LIFT STATION - BAYOU PLACE	1	LS	\$ 16,220.00	\$ 16,220.00	\$ 25,000.00	\$ 25,000.00	\$ -	\$ -
10	REMOVAL OF PIPE (ALL SIZES)	3,500	LF	\$ 10.00	\$ 35,000.00	\$ 6.00	\$ 21,000.00	\$ -	\$ -
11	REMOVAL OF SEWER MANHOLE	7	EA	\$ 850.00	\$ 5,950.00	\$ 1,500.00	\$ 10,500.00	\$ -	\$ -
12	REMOVAL OF ASPHALT PAVEMENT (ALL THICKNESSES)	5,200	SY	\$ 10.00	\$ 52,000.00	\$ 8.00	\$ 41,600.00	\$ -	\$ -
13	REMOVAL OF CONCRETE PAVEMENT (ALL THICKNESSES)	1,050	SY	\$ 10.00	\$ 10,500.00	\$ 9.00	\$ 9,450.00	\$ -	\$ -
14	REMOVAL OF CONCRETE CURB (ALL TYPES)	3,100	LF	\$ 10.00	\$ 31,000.00	\$ 2.50	\$ 7,750.00	\$ -	\$ -
15	FLOWABLE FILL	50	CY	\$ 319.60	\$ 15,980.00	\$ 500.00	\$ 25,000.00	\$ -	\$ -
16	SELECT BEDDING MATERIAL (PM)	1,000	CY	\$ 17.08	\$ 17,080.00	\$ 20.00	\$ 20,000.00	\$ -	\$ -
17	SELECT FOUNDATION MATERIAL (PM)	1000	CY	\$ 123.90	\$ 123,900.00	\$ 20.00	\$ 20,000.00	\$ -	\$ -
18	UNCLASSIFIED EXCAVATION (PM)	20000	CY	\$ 10.00	\$ 200,000.00	\$ 8.00	\$ 160,000.00	\$ -	\$ -
19	EXCESS EXCAVATION (PM)	5,000	CY	\$ 10.00	\$ 50,000.00	\$ 8.00	\$ 40,000.00	\$ -	\$ -
20	BORROW EXCAVATION (PM)(AH)	5000	SY	\$ 17.08	\$ 85,400.00	\$ 20.00	\$ 100,000.00	\$ -	\$ -
21	EROSION CONTROL MAT	1000	SY	\$ 4.76	\$ 4,760.00	\$ 6.50	\$ 6,500.00	\$ -	\$ -
22	SEEDING (PM)	10,000	SY	\$ 3.66	\$ 36,600.00	\$ 2.50	\$ 25,000.00	\$ -	\$ -
23	SODDING (PM)	10,000	SY	\$ 7.32	\$ 73,200.00	\$ 9.00	\$ 90,000.00	\$ -	\$ -
24	TEMPORARY SILT FENCE	2000	LF	\$ 4.65	\$ 9,300.00	\$ 5.00	\$ 10,000.00	\$ -	\$ -
25	TEMPORARY STRAW WATTLES	2000	LF	\$ 4.81	\$ 9,620.00	\$ 6.00	\$ 12,000.00	\$ -	\$ -
26	SIZE II STABILIZER AGGREGATE (GRAVEL) (PM)	2000	CY	\$ 123.90	\$ 247,800.00	\$ 87.00	\$ 174,000.00	\$ -	\$ -
27	"6.10" LIMESTONE (PM)	1000	CY	\$ 123.90	\$ 123,900.00	\$ 110.00	\$ 110,000.00	\$ -	\$ -
28	HOT BITUMINOUS PAVEMENT, 4" THICK BASE COURSE (TYPE 19MM)	5200	SY	\$ 48.74	\$ 253,448.00	\$ 56.00	\$ 291,200.00	\$ -	\$ -
29	HOT BITUMINOUS PAVEMENT, 2" THICK SURFACE COURSE (TYPE 9.5MM)	5200	SY	\$ 25.32	\$ 131,664.00	\$ 29.00	\$ 150,800.00	\$ -	\$ -
30	PLAIN CEMENT CONCRETE PAVEMENT, 6" THICK	1,050	SY	\$ 115.90	\$ 121,695.00	\$ 90.00	\$ 94,500.00	\$ -	\$ -
31	CONCRETE CURB	3,100	LF	\$ 19.52	\$ 60,512.00	\$ 35.00	\$ 108,500.00	\$ -	\$ -
32	NEW PORTLAND DRIVE LIFT STATION	1	LS	\$ 570,616.80	\$ 570,616.80	\$ 717,714.00	\$ 717,714.00	\$ -	\$ -
33	4" DIAMETER PRECAST CONCRETE MANHOLE (0'-4')	2	EA	\$ 3,493.68	\$ 6,987.36	\$ 3,500.00	\$ 7,000.00	\$ -	\$ -
34	4" DIAMETER PRECAST CONCRETE MANHOLE (4'-6')	3	EA	\$ 3,913.36	\$ 11,740.08	\$ 4,000.00	\$ 12,000.00	\$ -	\$ -
35	4" DIAMETER PRECAST CONCRETE MANHOLE (6'-8')	12	EA	\$ 4,337.92	\$ 52,055.04	\$ 4,800.00	\$ 57,600.00	\$ -	\$ -
36	4" DIAMETER PRECAST CONCRETE MANHOLE (8'-10')	13	EA	\$ 4,762.48	\$ 61,912.24	\$ 5,500.00	\$ 71,500.00	\$ -	\$ -
37	4" DIAMETER PRECAST CONCRETE MANHOLE (10'-12')	4	EA	\$ 5,382.16	\$ 21,528.64	\$ 6,000.00	\$ 24,000.00	\$ -	\$ -
38	4" DIAMETER PRECAST CONCRETE MANHOLE (12'-14')	2	EA	\$ 5,906.72	\$ 11,813.44	\$ 6,800.00	\$ 13,600.00	\$ -	\$ -
39	4" DIAMETER PRECAST CONCRETE MANHOLE (14'-16')	2	EA	\$ 6,531.28	\$ 13,062.56	\$ 7,500.00	\$ 15,000.00	\$ -	\$ -
40	100% EPOXY LINER	630	SF	\$ 613.37	\$ 386,423.10	\$ 450.00	\$ 283,500.00	\$ -	\$ -
41	GRAVITY SANITARY SEWER SERVICE (ALL SIZES)	1600	LF	\$ 22.66	\$ 36,256.00	\$ 55.00	\$ 88,000.00	\$ -	\$ -
42	LOW PRESSURE SANITARY SEWER SERVICE (ALL SIZES)	10	EA	\$ 1,346.70	\$ 13,467.00	\$ 2,800.00	\$ 28,000.00	\$ -	\$ -
43	8" PVC SDR-26 SANITARY SEWER MAIN	4500	LF	\$ 41.32	\$ 185,940.00	\$ 50.00	\$ 225,000.00	\$ -	\$ -
44	12" PVC SDR-26 SANITARY SEWER MAIN	3800	LF	\$ 63.49	\$ 241,262.00	\$ 75.00	\$ 285,000.00	\$ -	\$ -
45	24" DUCTILE IRON PIPE SLEEVE	40	LF	\$ 251.58	\$ 10,063.20	\$ 750.00	\$ 30,000.00	\$ -	\$ -
46	10" GATE VALVE	1	EA	\$ 75,000.00	\$ 75,000.00	\$ 4,000.00	\$ 4,000.00	\$ -	\$ -

CONTRACTOR'S BID TABULATION - 1

Bids Received: July 12, 2023, Wednesday -2:00 PM

CERTIFICATE OF RESPONSIBILITY

BID BOND / NON-COLLUSION

Addendum 1

Addendum 2

Addendum 3



DNA Underground, LLC

20907-MC

Yes/Yes

Yes

Yes

Bottom 2 Top Construction LLC

23104-MC

Yes/Yes

Yes

Yes

ITEM NO.	QTY	UNIT	UNIT PRICE	EXTENSION	UNIT PRICE	EXTENSION	UNIT PRICE	EXTENSION
47	880	LF	\$ 68.08	\$ 46,294.40	\$ 66.00	\$ 44,880.00	\$ 66.00	\$ 44,880.00
48	1	EA	\$ 9,472.70	\$ 9,472.70	\$ 9,200.00	\$ 9,200.00	\$ 9,200.00	\$ 9,200.00
49	20	EA	\$ 1,696.11	\$ 33,922.20	\$ 1,500.00	\$ 30,000.00	\$ 1,500.00	\$ 30,000.00
50	20	LF	\$ 41.79	\$ 835.80	\$ 95.00	\$ 1,900.00	\$ 95.00	\$ 1,900.00
51	20	LF	\$ 46.17	\$ 923.40	\$ 60.00	\$ 1,200.00	\$ 60.00	\$ 1,200.00
52	20	LF	\$ 53.90	\$ 1,078.00	\$ 67.00	\$ 1,340.00	\$ 67.00	\$ 1,340.00
53	100	LF	\$ 30.20	\$ 3,020.00	\$ 33.00	\$ 3,300.00	\$ 33.00	\$ 3,300.00
54	200	LF	\$ 39.65	\$ 7,930.00	\$ 45.00	\$ 9,000.00	\$ 45.00	\$ 9,000.00
55	300	LF	\$ 23.11	\$ 6,933.00	\$ 31.00	\$ 9,300.00	\$ 31.00	\$ 9,300.00
TOTAL BASE BID SCHEDULE NO. 1				\$ 3,730,955.96		\$ 3,854,684.00		\$ 3,854,684.00

ALTERNATE #1- MADISON DRIVE	QTY	UNIT	UNIT PRICE	EXTENSION	UNIT PRICE	EXTENSION	UNIT PRICE	EXTENSION
1 PROJECT VIDEO	1	LS	\$ 3,000.00	\$ 3,000.00	\$ 2,500.00	\$ 2,500.00	\$ 2,500.00	\$ 2,500.00
2 MAINTENANCE OF TRAFFIC	1	LS	\$ 12,000.00	\$ 12,000.00	\$ 25,000.00	\$ 25,000.00	\$ 25,000.00	\$ 25,000.00
3 REMOVAL OF FENCE, ALL TYPES	60	LF	\$ 10.00	\$ 600.00	\$ 6.00	\$ 360.00	\$ 6.00	\$ 360.00
4 REMOVAL OF OBSTRUCTIONS	100	CV	\$ 10.00	\$ 1,000.00	\$ 20.00	\$ 2,000.00	\$ 20.00	\$ 2,000.00
5 REMOVAL OF PIPE (ALL SIZES)	670	LF	\$ 10.00	\$ 6,700.00	\$ 6.00	\$ 4,020.00	\$ 6.00	\$ 4,020.00
6 REMOVAL OF SEWER MANHOLE	6	EA	\$ 300.00	\$ 1,800.00	\$ 1,500.00	\$ 9,000.00	\$ 1,500.00	\$ 9,000.00
7 REMOVAL OF ASPHALT PAVEMENT (ALL THICKNESSES)	2500	SY	\$ 10.00	\$ 25,000.00	\$ 8.00	\$ 20,000.00	\$ 8.00	\$ 20,000.00
8 REMOVAL OF CONCRETE PAVEMENT (ALL THICKNESSES)	400	SY	\$ 10.00	\$ 4,000.00	\$ 9.00	\$ 3,600.00	\$ 9.00	\$ 3,600.00
9 REMOVAL OF CONCRETE CURB (ALL TYPES)	1720	LF	\$ 10.00	\$ 17,200.00	\$ 2.50	\$ 4,300.00	\$ 2.50	\$ 4,300.00
10 FLOWABLE FILL	20	CY	\$ 319.60	\$ 6,392.00	\$ 500.00	\$ 10,000.00	\$ 500.00	\$ 10,000.00
11 SELECT BEDDING MATERIAL (PM)	500	CY	\$ 17.08	\$ 8,540.00	\$ 20.00	\$ 10,000.00	\$ 20.00	\$ 10,000.00
12 SELECT FOUNDATION MATERIAL (PM)	500	CY	\$ 123.90	\$ 61,950.00	\$ 20.00	\$ 10,000.00	\$ 20.00	\$ 10,000.00
13 UNCLASSIFIED EXCAVATION (PM)	4100	CY	\$ 10.00	\$ 41,000.00	\$ 8.00	\$ 32,800.00	\$ 8.00	\$ 32,800.00
14 EXCESS EXCAVATION (PM)	1000	CY	\$ 10.00	\$ 10,000.00	\$ 8.00	\$ 8,000.00	\$ 8.00	\$ 8,000.00
15 BORROW EXCAVATION (PM)(AH) CLASS B3	1000	SY	\$ 17.08	\$ 17,080.00	\$ 20.00	\$ 20,000.00	\$ 20.00	\$ 20,000.00
16 EROSION CONTROL MAT	100	SY	\$ 4.76	\$ 476.00	\$ 6.50	\$ 650.00	\$ 6.50	\$ 650.00
17 SEEDING (PM)	5000	SY	\$ 3.66	\$ 18,300.00	\$ 2.50	\$ 12,500.00	\$ 2.50	\$ 12,500.00
18 SODDING (PM)	5000	SY	\$ 7.32	\$ 36,600.00	\$ 9.00	\$ 45,000.00	\$ 9.00	\$ 45,000.00
19 TEMPORARY SILT FENCE	2000	LF	\$ 4.85	\$ 9,700.00	\$ 5.00	\$ 10,000.00	\$ 5.00	\$ 10,000.00
20 TEMPORARY STRAW WATTLES	400	LF	\$ 4.81	\$ 1,924.00	\$ 6.00	\$ 2,400.00	\$ 6.00	\$ 2,400.00
21 SIZE II STABILIZER AGGREGATE (GRAVEL) (PM)	50	CY	\$ 123.90	\$ 6,195.00	\$ 87.00	\$ 4,350.00	\$ 87.00	\$ 4,350.00
22 "610" LIMESTONE (PM)	510	CY	\$ 123.90	\$ 63,189.00	\$ 110.00	\$ 56,100.00	\$ 110.00	\$ 56,100.00
23 HOT BITUMINOUS PAVEMENT, 4" THICK BASE COURSE (TYPE 19MM)	2500	SY	\$ 48.74	\$ 121,850.00	\$ 56.00	\$ 140,000.00	\$ 56.00	\$ 140,000.00
24 HOT BITUMINOUS PAVEMENT, 2" THICK SURFACE COURSE (TYPE 9.5 MM)	2500	SY	\$ 25.32	\$ 63,300.00	\$ 29.00	\$ 72,500.00	\$ 29.00	\$ 72,500.00
25 PLAIN CEMENT CONCRETE PAVEMENT, 6" THICK	400	SY	\$ 115.90	\$ 46,360.00	\$ 90.00	\$ 36,000.00	\$ 90.00	\$ 36,000.00
26 CONCRETE CURB	1720	LF	\$ 19.52	\$ 33,574.40	\$ 35.00	\$ 60,200.00	\$ 35.00	\$ 60,200.00
27 4" DIAMETER PRECAST CONCRETE MANHOLE (4'-6")	3	EA	\$ 3,913.36	\$ 11,740.08	\$ 4,000.00	\$ 12,000.00	\$ 4,000.00	\$ 12,000.00
28 4" DIAMETER PRECAST CONCRETE MANHOLE (6'-8")	2	EA	\$ 4,337.92	\$ 8,675.84	\$ 4,800.00	\$ 9,600.00	\$ 4,800.00	\$ 9,600.00
29 4" DIAMETER PRECAST CONCRETE MANHOLE (8'-10")	1	EA	\$ 4,762.48	\$ 4,762.48	\$ 5,500.00	\$ 5,500.00	\$ 5,500.00	\$ 5,500.00
30 4" DIAMETER PRECAST CONCRETE MANHOLE (10'-12")	1	EA	\$ 5,382.16	\$ 5,382.16	\$ 6,000.00	\$ 6,000.00	\$ 6,000.00	\$ 6,000.00
31 GRAVITY SANITARY SEWER SERVICE (ALL SIZES)	1250	LF	\$ 23.66	\$ 29,575.00	\$ 55.00	\$ 68,750.00	\$ 55.00	\$ 68,750.00
32 LOW PRESSURE SANITARY SEWER SERVICE (ALL SIZES)	10	EA	\$ 1,346.70	\$ 13,467.00	\$ 2,800.00	\$ 28,000.00	\$ 2,800.00	\$ 28,000.00
33 8" PVC SDR-26 SANITARY SEWER MAIN	1710	LF	\$ 41.32	\$ 70,657.20	\$ 50.00	\$ 85,500.00	\$ 50.00	\$ 85,500.00
34 RESIDENTIAL WATER SERVICE (ALL SIZES)	10	EA	\$ 1,961.10	\$ 19,611.00	\$ 1,500.00	\$ 15,000.00	\$ 1,500.00	\$ 15,000.00

Wastewater Facility Improvement Project Ph 3 - SRF - C280-870-05
Jackson County, MS



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CERTIFICATE OF RESPONSIBILITY

BID BOND / NON-COLLUSION

Addendum 1

Addendum 2

Addendum 3

Bottom 2 Top Construction LLC

23104-MC

Yes/Yes

Yes

Yes

DNA Underground, LLC

20807-MC

Yes/Yes

Yes

Yes

ITEM NO.	QTY	UNIT	UNIT PRICE	EXTENSION	UNIT PRICE	EXTENSION	UNIT PRICE	EXTENSION
ALTERNATE #2 - LEXINGTON DRIVE								
1	1	LS	\$ 3,000.00	\$ 3,000.00	\$ 3,000.00	\$ 3,000.00	\$ 3,000.00	\$ 3,000.00
2	1	LS	\$ 12,000.00	\$ 12,000.00	\$ 12,000.00	\$ 12,000.00	\$ 12,000.00	\$ 12,000.00
3	20	LF	\$ 46.17	\$ 923.40	\$ 60.00	\$ 1,200.00	\$ 1,200.00	\$ 1,200.00
36	20	LF	\$ 1,078.00	\$ 21,560.00	\$ 67.00	\$ 1,340.00	\$ 1,340.00	\$ 1,340.00
37	40	LF	\$ 30.20	\$ 1,208.00	\$ 33.00	\$ 1,320.00	\$ 1,320.00	\$ 1,320.00
38	20	LF	\$ 39.65	\$ 793.00	\$ 45.00	\$ 900.00	\$ 900.00	\$ 900.00
TOTAL ALTERNATE NO. 1				\$ 781,303.66		\$ 836,390.00		\$ 836,390.00
ALTERNATE #2 - LEXINGTON DRIVE								
1	1	LS	\$ 3,000.00	\$ 3,000.00	\$ 3,000.00	\$ 3,000.00	\$ 3,000.00	\$ 3,000.00
2	1	LS	\$ 12,000.00	\$ 12,000.00	\$ 12,000.00	\$ 12,000.00	\$ 12,000.00	\$ 12,000.00
3	20	LF	\$ 46.17	\$ 923.40	\$ 60.00	\$ 1,200.00	\$ 1,200.00	\$ 1,200.00
4	100	LF	\$ 10.00	\$ 1,000.00	\$ 20.00	\$ 2,000.00	\$ 2,000.00	\$ 2,000.00
5	1300	LF	\$ 10.00	\$ 13,000.00	\$ 6.00	\$ 7,800.00	\$ 7,800.00	\$ 7,800.00
6	6	EA	\$ 850.00	\$ 5,100.00	\$ 1,500.00	\$ 9,000.00	\$ 9,000.00	\$ 9,000.00
7	2500	SY	\$ 10.00	\$ 25,000.00	\$ 8.00	\$ 20,000.00	\$ 20,000.00	\$ 20,000.00
8	460	SY	\$ 10.00	\$ 4,600.00	\$ 9.00	\$ 4,140.00	\$ 4,140.00	\$ 4,140.00
9	1870	LF	\$ 10.00	\$ 18,700.00	\$ 2.50	\$ 4,675.00	\$ 4,675.00	\$ 4,675.00
10	10	CV	\$ 319.60	\$ 3,196.00	\$ 500.00	\$ 5,000.00	\$ 5,000.00	\$ 5,000.00
11	500	CV	\$ 17.08	\$ 8,540.00	\$ 20.00	\$ 10,000.00	\$ 10,000.00	\$ 10,000.00
12	500	CV	\$ 123.90	\$ 61,950.00	\$ 20.00	\$ 10,000.00	\$ 10,000.00	\$ 10,000.00
13	4550	CV	\$ 10.00	\$ 45,500.00	\$ 8.00	\$ 36,400.00	\$ 36,400.00	\$ 36,400.00
14	1000	CV	\$ 10.00	\$ 10,000.00	\$ 8.00	\$ 8,000.00	\$ 8,000.00	\$ 8,000.00
15	1000	CV	\$ 17.08	\$ 17,080.00	\$ 20.00	\$ 20,000.00	\$ 20,000.00	\$ 20,000.00
16	100	SY	\$ 4.76	\$ 476.00	\$ 6.50	\$ 650.00	\$ 650.00	\$ 650.00
17	5000	SY	\$ 3.66	\$ 18,300.00	\$ 2.50	\$ 12,500.00	\$ 12,500.00	\$ 12,500.00
18	5000	SY	\$ 7.32	\$ 36,600.00	\$ 9.00	\$ 45,000.00	\$ 45,000.00	\$ 45,000.00
19	2000	LF	\$ 4.65	\$ 9,300.00	\$ 5.00	\$ 10,000.00	\$ 10,000.00	\$ 10,000.00
20	400	LF	\$ 4.81	\$ 1,924.00	\$ 6.00	\$ 2,400.00	\$ 2,400.00	\$ 2,400.00
21	50	CV	\$ 123.90	\$ 6,195.00	\$ 87.00	\$ 4,350.00	\$ 4,350.00	\$ 4,350.00
22	510	CV	\$ 48.74	\$ 24,850.00	\$ 110.00	\$ 56,100.00	\$ 56,100.00	\$ 56,100.00
23	2500	SY	\$ 25.32	\$ 63,300.00	\$ 36.00	\$ 90,000.00	\$ 90,000.00	\$ 90,000.00
24	2500	SY	\$ 115.90	\$ 289,750.00	\$ 29.00	\$ 72,500.00	\$ 72,500.00	\$ 72,500.00
25	460	SY	\$ 19.52	\$ 8,980.00	\$ 35.00	\$ 16,160.00	\$ 16,160.00	\$ 16,160.00
26	1870	LF	\$ 3,493.68	\$ 6,582,196.00	\$ 3,500.00	\$ 6,545,000.00	\$ 6,545,000.00	\$ 6,545,000.00
27	2	EA	\$ 3,913.36	\$ 7,826.72	\$ 4,000.00	\$ 8,000.00	\$ 8,000.00	\$ 8,000.00
28	4	EA	\$ 8,675.84	\$ 34,703.36	\$ 4,800.00	\$ 19,200.00	\$ 19,200.00	\$ 19,200.00
29	2	EA	\$ 23,795.00	\$ 47,590.00	\$ 48,800.00	\$ 97,600.00	\$ 97,600.00	\$ 97,600.00
30	1050	LF	\$ 22.66	\$ 23,793.00	\$ 55.00	\$ 57,750.00	\$ 57,750.00	\$ 57,750.00
31	10	EA	\$ 1,346.70	\$ 13,467.00	\$ 2,800.00	\$ 28,000.00	\$ 28,000.00	\$ 28,000.00
32	1910	LF	\$ 41.32	\$ 78,921.20	\$ 50.00	\$ 95,500.00	\$ 95,500.00	\$ 95,500.00
33	10	EA	\$ 1,696.11	\$ 16,961.10	\$ 1,500.00	\$ 15,000.00	\$ 15,000.00	\$ 15,000.00
34	20	LF	\$ 46.17	\$ 923.40	\$ 60.00	\$ 1,200.00	\$ 1,200.00	\$ 1,200.00
35	20	LF	\$ 53.90	\$ 1,078.00	\$ 67.00	\$ 1,340.00	\$ 1,340.00	\$ 1,340.00
36	40	LF	\$ 30.20	\$ 1,208.00	\$ 33.00	\$ 1,320.00	\$ 1,320.00	\$ 1,320.00
37	20	LF	\$ 44.53	\$ 890.60	\$ 50.00	\$ 1,000.00	\$ 1,000.00	\$ 1,000.00
TOTAL ALTERNATE NO. 2				\$ 808,375.34		\$ 845,595.00		\$ 845,595.00

Wastewater Facility Improvement Project Ph 3 - SRF - C280- 870-05
Jackson County, MS

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CERTIFICATE OF RESPONSIBILITY

BID BOND / NON-COLLUSION

Addendum 1

Addendum 2

Addendum 3



DNA Underground, LLC

20907-MC

Yes/Yes

Yes

Yes

Bottom 2 Top Construction LLC

23104-MC

Yes/Yes

Yes

Yes

ITEM NO.	DESCRIPTION	QTY	UNIT	UNIT PRICE	EXTENSION	UNIT PRICE	EXTENSION	UNIT PRICE	EXTENSION
ALTERNATE #3 - ANDERSON DRIVE									
1	PROJECT VIDEO	1	LS	\$ 3,000.00	\$ 3,000.00	\$ 2,500.00	\$ 2,500.00	\$ -	\$ -
2	MAINTENANCE OF TRAFFIC	1	LS	\$ 12,000.00	\$ 12,000.00	\$ 25,000.00	\$ 25,000.00	\$ -	\$ -
3	REMOVAL OF FENCE, ALL TYPES	260	LF	\$ 10.00	\$ 2,600.00	\$ 6.00	\$ 1,560.00	\$ -	\$ -
4	REMOVAL OF OBSTRUCTIONS	100	CY	\$ 10.00	\$ 1,000.00	\$ 20.00	\$ 2,000.00	\$ -	\$ -
5	REMOVAL OF PIPE (ALL SIZES)	900	LF	\$ 10.00	\$ 9,000.00	\$ 6.00	\$ 5,400.00	\$ -	\$ -
6	REMOVAL OF SEWER MANHOLE	5	EA	\$ 850.00	\$ 4,250.00	\$ 1,500.00	\$ 7,500.00	\$ -	\$ -
7	REMOVAL OF ASPHALT PAVEMENT (ALL THICKNESSES)	1,570	SY	\$ 10.00	\$ 15,700.00	\$ 8.00	\$ 12,560.00	\$ -	\$ -
8	REMOVAL OF CONCRETE PAVEMENT (ALL THICKNESSES)	270	SY	\$ 10.00	\$ 2,700.00	\$ 9.00	\$ 2,430.00	\$ -	\$ -
9	REMOVAL OF CONCRETE CRUB (ALL TYPES)	1,205	LF	\$ 10.00	\$ 12,050.00	\$ 2.50	\$ 3,012.50	\$ -	\$ -
10	SELECT BEDDING MATERIAL (PM)	300	CY	\$ 17.08	\$ 5,124.00	\$ 20.00	\$ 6,000.00	\$ -	\$ -
11	SELECT FOUNDATION MATERIAL (PM)	300	CY	\$ 123.90	\$ 37,170.00	\$ 20.00	\$ 6,000.00	\$ -	\$ -
12	UNCLASSIFIED EXCAVATION (PM)	3,350	CY	\$ 10.00	\$ 33,500.00	\$ 8.00	\$ 26,800.00	\$ -	\$ -
13	EXCESS EXCAVATION (PM)	750	CY	\$ 10.00	\$ 7,500.00	\$ 8.00	\$ 6,000.00	\$ -	\$ -
14	BORROW EXCAVATION (PM)(A4) CLASS B3	250	CY	\$ 17.08	\$ 4,270.00	\$ 20.00	\$ 5,000.00	\$ -	\$ -
15	EROSION CONTROL MAT	100	SY	\$ 4.76	\$ 476.00	\$ 6.50	\$ 650.00	\$ -	\$ -
16	SEEDING (PM)	5,000	SY	\$ 3.66	\$ 18,300.00	\$ 2.50	\$ 12,500.00	\$ -	\$ -
17	SODDING (PM)	5,000	SY	\$ 7.32	\$ 36,600.00	\$ 9.00	\$ 45,000.00	\$ -	\$ -
18	TEMPORARY SILT FENCE	1,500	LF	\$ 4.65	\$ 6,975.00	\$ 5.00	\$ 7,500.00	\$ -	\$ -
19	TEMPORARY STRAW WATTLES	300	LF	\$ 4.81	\$ 1,443.00	\$ 6.00	\$ 1,800.00	\$ -	\$ -
20	SIZE 1/2 STABILIZER AGGREGATE (GRAVEL)(PM)	50	CY	\$ 123.90	\$ 6,195.00	\$ 87.00	\$ 4,350.00	\$ -	\$ -
21	"610" LIMESTONE (PM)	400	CY	\$ 123.90	\$ 49,560.00	\$ 110.00	\$ 44,000.00	\$ -	\$ -
22	HOT BITUMINOUS PAVEMENT, 4" THICK BASE COURSE (TYPE 19MM)	1,570	SY	\$ 48.74	\$ 76,521.80	\$ 56.00	\$ 87,920.00	\$ -	\$ -
23	HOT BITUMINOUS PAVEMENT, 2" THICK SURFACE COURSE (TYPE 9.5MM)	270	SY	\$ 25.32	\$ 6,836.40	\$ 29.00	\$ 7,830.00	\$ -	\$ -
24	PLAIN CEMENT CONCRETE PAVEMENT, 6" THICK	270	SY	\$ 115.90	\$ 31,293.00	\$ 90.00	\$ 24,300.00	\$ -	\$ -
25	CONCRETE CURB	1,205	LF	\$ 19.52	\$ 23,521.60	\$ 35.00	\$ 42,175.00	\$ -	\$ -
26	4" DIAMETER PRECAST CONCRETE MANHOLE (4'-6")	5	EA	\$ 3,913.36	\$ 19,566.80	\$ 4,000.00	\$ 20,000.00	\$ -	\$ -
27	4" DIAMETER PRECAST CONCRETE MANHOLE (6'-8")	1	EA	\$ 4,337.92	\$ 4,337.92	\$ 4,800.00	\$ 4,800.00	\$ -	\$ -
28	GRAVITY SANITARY SEWER SERVICE (ALL SIZES)	650	LF	\$ 22.66	\$ 14,729.00	\$ 55.00	\$ 35,750.00	\$ -	\$ -
29	LOW PRESSURE SANITARY SEWER SERVICE (ALL SIZES)	5	EA	\$ 1,346.70	\$ 6,733.50	\$ 2,800.00	\$ 14,000.00	\$ -	\$ -
30	8" PVC SDR-26 SANITARY SEWER MAIN	800	LF	\$ 4.32	\$ 3,456.00	\$ 50.00	\$ 40,000.00	\$ -	\$ -
31	12" PVC SDR-26 SANITARY SEWER MAIN	600	LF	\$ 65.49	\$ 39,294.00	\$ 75.00	\$ 45,000.00	\$ -	\$ -
32	RESIDENTIAL WATER SERVICE (ALL SIZES)	5	EA	\$ 1,696.11	\$ 8,480.55	\$ 1,500.00	\$ 7,500.00	\$ -	\$ -
33	15" RCP STORM PIPE	20	LF	\$ 46.17	\$ 923.40	\$ 60.00	\$ 1,200.00	\$ -	\$ -
34	18" RCP STORM PIPE	20	LF	\$ 53.90	\$ 1,078.00	\$ 67.00	\$ 1,340.00	\$ -	\$ -
35	CHAIN LINK FENCE	260	LF	\$ 30.20	\$ 7,852.00	\$ 33.00	\$ 8,580.00	\$ -	\$ -
TOTAL ALTERNATE NO. 3				\$	\$ 555,492.97	\$	\$ 615,657.50	\$	\$
ALTERNATE #4 - HAMMOND DRIVE									
1	PROJECT VIDEO	1	LS	\$ 3,000.00	\$ 3,000.00	\$ 2,500.00	\$ 2,500.00	\$ -	\$ -
2	MAINTENANCE OF TRAFFIC	1	LS	\$ 12,000.00	\$ 12,000.00	\$ 25,000.00	\$ 25,000.00	\$ -	\$ -
3	REMOVAL OF FENCE, ALL TYPES	100	LF	\$ 10.00	\$ 1,000.00	\$ 6.00	\$ 600.00	\$ -	\$ -
4	REMOVAL OF OBSTRUCTIONS	100	CY	\$ 10.00	\$ 1,000.00	\$ 20.00	\$ 2,000.00	\$ -	\$ -
5	REMOVAL OF PIPE (ALL SIZES)	900	LF	\$ 10.00	\$ 9,000.00	\$ 6.00	\$ 5,400.00	\$ -	\$ -
6	REMOVAL OF SEWER MANHOLE	2	EA	\$ 850.00	\$ 1,700.00	\$ 1,500.00	\$ 3,000.00	\$ -	\$ -
7	REMOVAL OF ASPHALT PAVEMENT (ALL THICKNESSES)	1,280	SY	\$ 10.00	\$ 12,800.00	\$ 8.00	\$ 10,240.00	\$ -	\$ -

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BID BOND / NON-COLLUSION

Addendum 1

Addendum 2

Addendum 3



DNA Underground, LLC

20907-MC

Yes

Yes

Yes

Bottom 2 Top Construction LLC

23104-MC

Yes

Yes

Yes

ITEM NO.	DESCRIPTION	QTY	UNIT	UNIT PRICE	EXTENSION	UNIT PRICE	EXTENSION	UNIT PRICE	EXTENSION
8	REMOVAL OF CONCRETE PAVEMENT (ALL THICKNESSES)	270	SY	\$ 10.00	\$ 2,700.00	\$ 9.00	\$ 2,430.00	\$ -	\$ -
9	REMOVAL OF CONCRETE CURB (ALL TYPES)	900	LF	\$ 10.00	\$ 9,000.00	\$ 2.50	\$ 2,250.00	\$ -	\$ -
10	SELECT BEDDING MATERIAL (PM)	300	CY	\$ 16.80	\$ 5,040.00	\$ 20.00	\$ 6,000.00	\$ -	\$ -
11	SELECT FOUNDATION MATERIAL (PM)	300	CY	\$ 122.00	\$ 36,600.00	\$ 20.00	\$ 6,000.00	\$ -	\$ -
12	UNCLASSIFIED EXCAVATION (PM)	2150	CY	\$ 10.00	\$ 21,500.00	\$ 8.00	\$ 17,200.00	\$ -	\$ -
13	EXCESS EXCAVATION (PM)	500	CY	\$ 10.00	\$ 5,000.00	\$ 8.00	\$ 4,000.00	\$ -	\$ -
14	BORROW EXCAVATION (PM) (AH) CLASS B3	500	CY	\$ 16.80	\$ 8,400.00	\$ 20.00	\$ 10,000.00	\$ -	\$ -
15	EROSION CONTROL MAT	100	SY	\$ 4.73	\$ 473.00	\$ 6.50	\$ 650.00	\$ -	\$ -
16	SEEDING (PM)	5000	SY	\$ 3.45	\$ 17,250.00	\$ 2.50	\$ 12,500.00	\$ -	\$ -
17	SODDING (PM)	5000	SY	\$ 6.90	\$ 34,500.00	\$ 9.00	\$ 45,000.00	\$ -	\$ -
18	TEMPORARY SILT FENCE	1500	LF	\$ 4.62	\$ 6,930.00	\$ 5.00	\$ 7,500.00	\$ -	\$ -
19	TEMPORARY STRAW WATTLERS	200	LF	\$ 4.76	\$ 952.00	\$ 6.00	\$ 1,200.00	\$ -	\$ -
20	SIZE 1/2 STABILIZER AGGREGATE (GRAVEL) (PM)	50	CY	\$ 122.00	\$ 6,100.00	\$ 87.00	\$ 4,350.00	\$ -	\$ -
21	"610" LIMESTONE (PM)	400	CY	\$ 122.00	\$ 48,800.00	\$ 110.00	\$ 44,000.00	\$ -	\$ -
22	HOT BITUMINOUS PAVEMENT, 4" THICK BASE COURSE (TYPE 19 MM)	1280	SY	\$ 24.90	\$ 31,872.00	\$ 56.00	\$ 71,680.00	\$ -	\$ -
23	HOT BITUMINOUS PAVEMENT, 2" THICK SURFACE COURSE (TYPE 9.5MM)	1280	SY	\$ 24.90	\$ 31,872.00	\$ 29.00	\$ 37,120.00	\$ -	\$ -
24	PLAIN CEMENT CONCRETE PAVEMENT, 6" THICK	270	SY	\$ 114.00	\$ 30,780.00	\$ 90.00	\$ 24,300.00	\$ -	\$ -
25	CONCRETE CURB	900	LF	\$ 19.20	\$ 17,280.00	\$ 35.00	\$ 31,500.00	\$ -	\$ -
26	4" DIAMETER PRECAST CONCRETE MANHOLE (0'-4')	1	EA	\$ 2,972.80	\$ 2,972.80	\$ 3,500.00	\$ 3,500.00	\$ -	\$ -
27	4' DIAMETER PRECAST CONCRETE MANHOLE (4'-6')	2	EA	\$ 3,385.60	\$ 6,771.20	\$ 4,000.00	\$ 8,000.00	\$ -	\$ -
28	GRAVITY SANITARY SEWER SERVICE (ALL SIZES)	600	LF	\$ 22.49	\$ 13,494.00	\$ 55.00	\$ 33,000.00	\$ -	\$ -
29	LOW PRESSURE SANITARY SEWER SERVICE (ALL SIZES)	4	EA	\$ 1,332.00	\$ 5,328.00	\$ 2,800.00	\$ 11,200.00	\$ -	\$ -
30	8" PVC SDR-26 SANITARY SEWER MAIN	900	LF	\$ 41.02	\$ 36,918.00	\$ 50.00	\$ 45,000.00	\$ -	\$ -
31	RESIDENTIAL WATER SERVICE (ALL SIZES)	5	EA	\$ 1,678.14	\$ 8,390.70	\$ 1,500.00	\$ 7,500.00	\$ -	\$ -
32	15" RCP STORM PIPE	20	LF	\$ 45.74	\$ 914.80	\$ 60.00	\$ 1,200.00	\$ -	\$ -
33	18" RCP STORM PIPE	20	LF	\$ 53.38	\$ 1,067.60	\$ 67.00	\$ 1,340.00	\$ -	\$ -
34	CHAIN LINK FENCE	100	LF	\$ 29.70	\$ 2,970.00	\$ 33.00	\$ 3,300.00	\$ -	\$ -
TOTAL ALTERNATE NO. 4				\$	434,376.10	\$	490,460.00	\$	\$

The information presented in the bid tabulation above is accurate and complete to the best of my knowledge and understanding of the submitted bids.



7/26/2023
Date
Jason Polite, P.E.



Bottom 2 Top Construction LLC

16708 Hwy 67

Biloxi, MS 39532

Certificate #23104-MC

West Jackson County Utility District

7200 McCann Road

Biloxi, MS 39532

Bid: Wastewater Facility Improvement Project- Phase 3 (SRF-C280-870-05)

Address:

16708 Hwy 67 Biloxi, MS 39532

Office: 228-731-3795

Fax: 228-314-3811

Email: jraffeo@bottom2top.net

MP DESIGN GROUP

ARCHITECTURE + ENGINEERING

CONTRACT DOCUMENTS & TECHNICAL SPECIFICATIONS

PROJECT NAME:
WASTEWATER FACILITY
IMPROVEMENT PROJECT - PHASE 3
(SRF-C280-870-05)

PROJECT LOCATION:
JACKSON COUNTY, MISSISSIPPI

PROJECT OWNER:
WEST JACKSON COUNTY UTILITY DISTRICT
7200 MCCANN ROAD
BILOXI, MS 39532

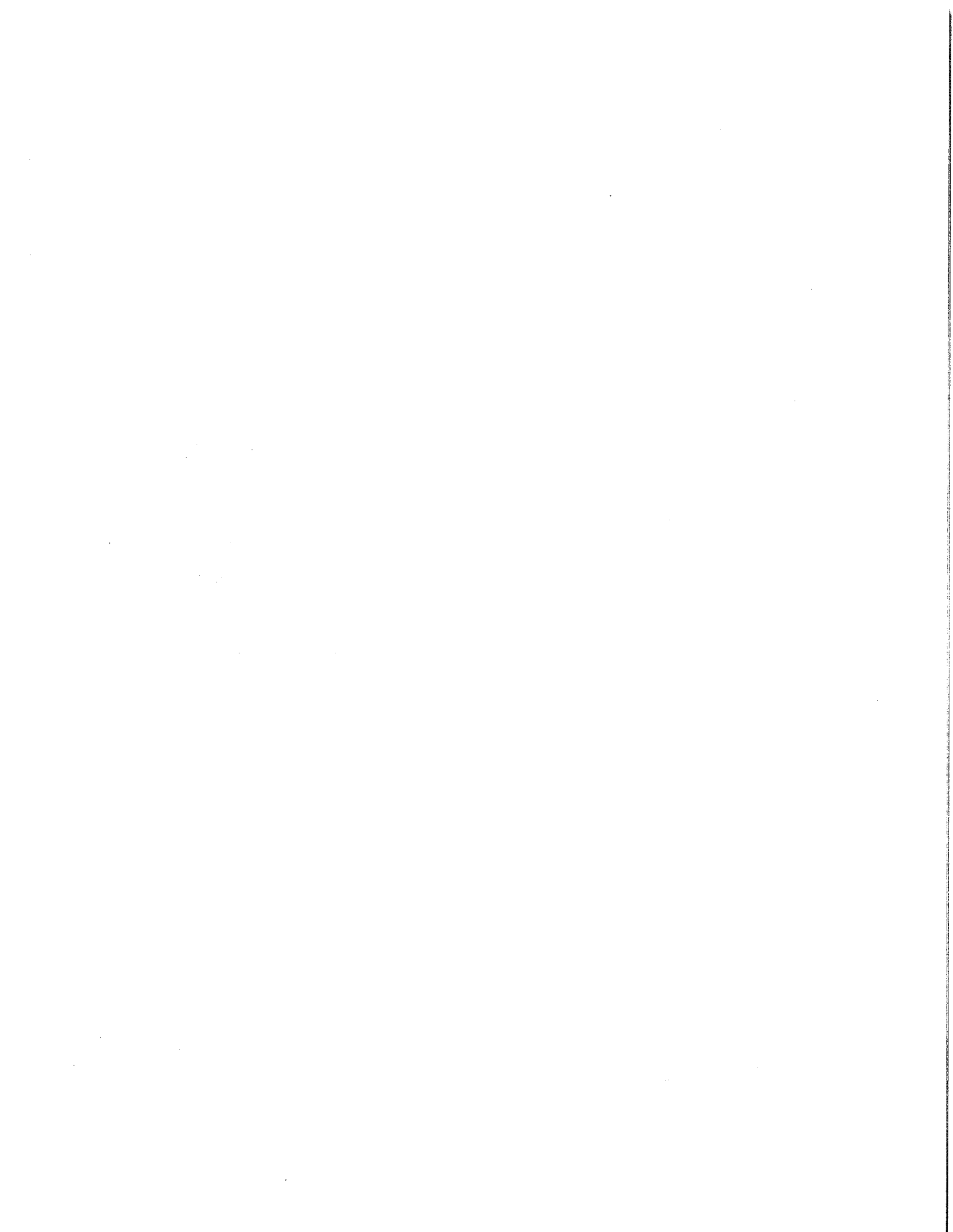
PROJECT ENGINEER:
Jason Polite, P.E.
MS# 33177

Date: June 5, 2023

918 Howard Avenue Suite F. Biloxi, MS
Phone: 228.388.1950 Fax: 228.388.1971

MPDESIGNGROUP.US

CIVIL | ELECTRICAL | ENVIRONMENTAL | SURVEYING



**CONTRACT DOCUMENTS AND TECHNICAL SPECIFICATIONS
FOR**

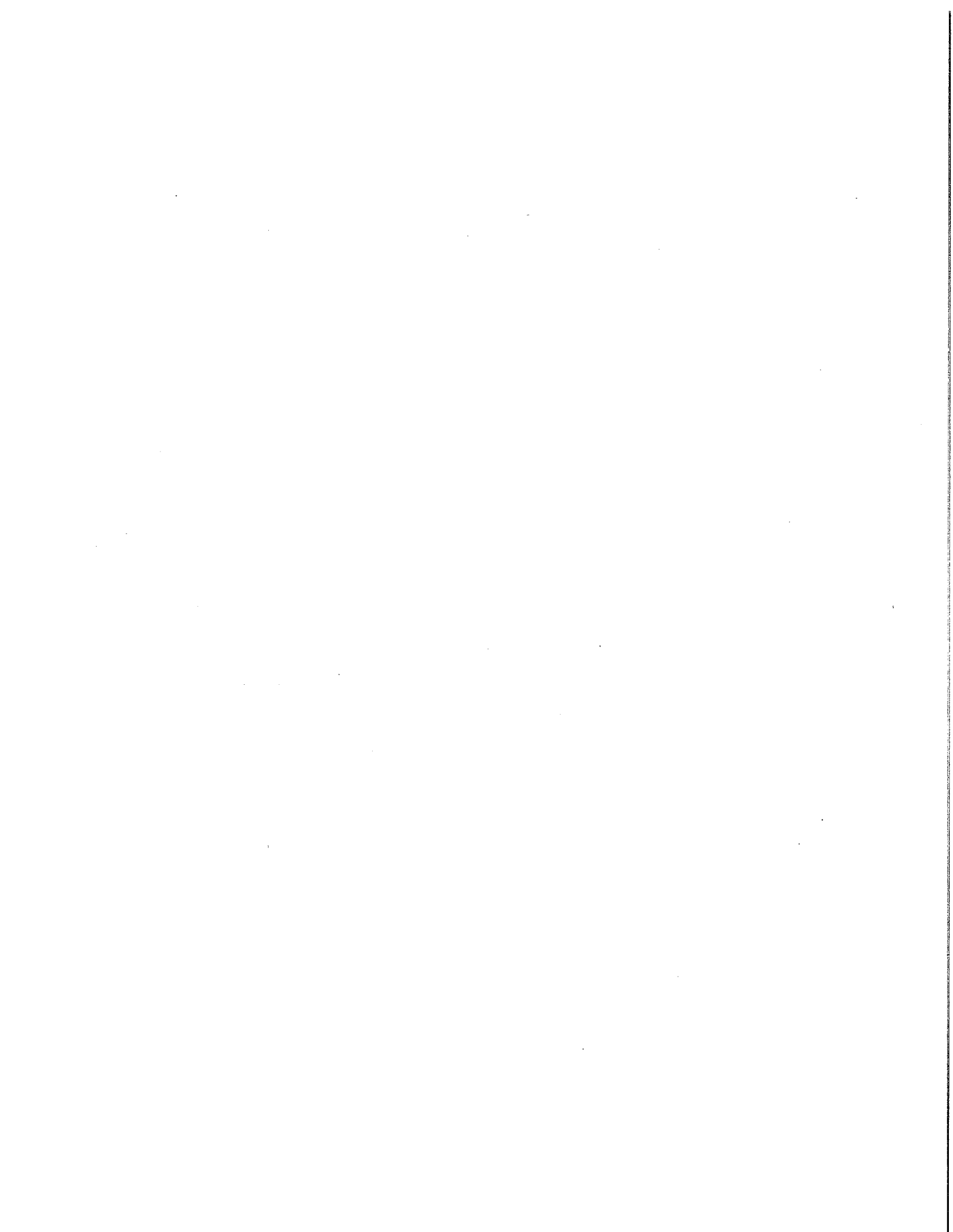
Wastewater Facility Improvement Project – Phase 3
SRF-C280-870-05
Jackson County, MS

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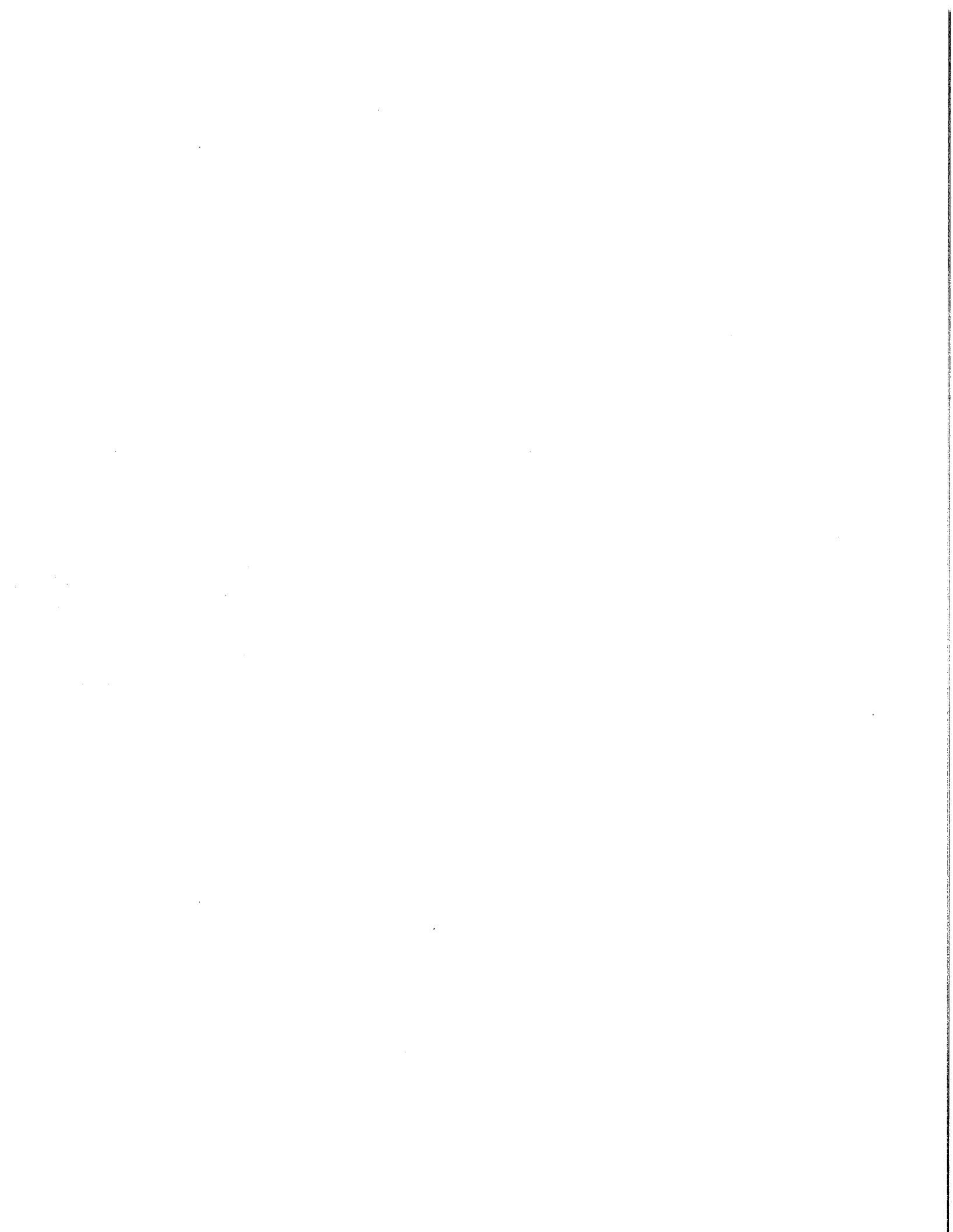
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SECTION A
ADVERTISEMENT FOR BIDS

Machado Patano, P.L.L.C.
918 Howard Ave., Ste. F
Biloxi, Mississippi, 39530



ADVERTISEMENT FOR BIDS

TO: POTENTIAL BIDDERS

Notice is hereby given that the West Jackson County Utility District will receive sealed bids at the office of the West Jackson County Utility District until 2:00 P.M., Wednesday, July 12th, 2023, and then publicly opened and read aloud for the following:

Wastewater Facility Improvement Project – Phase 3

SRF-C280-870-05

All bids shall be submitted in a sealed envelope addressed to the West Jackson County Utility District. Bids shall be hand-delivered at the street address of the West Jackson County Utility District is 7200 McCann Road, Biloxi, MS 39532. Electronic bid submission will be accepted on this project. Online bids can be placed on the website of the engineer at www.mpengplans.us. If bids are electronically submitted, then a title page containing the same information as would occur on the front of a sealed envelope must be included and must be clearly indicated as such in the file name.

All bid proposals must be on file with West Jackson County Utility District prior to the opening time as stated above. All bid proposals must be sealed and clearly marked on the outside of the envelope with the Project Name, Bid Date, Company Name, Company Address, and all applicable state license and certificate numbers.

Copies of the Bid Documents may be obtained from the MP Design Group Planroom Website at www.mpdesigngroupplans.us for the amount indicated on the plan room site.

The Owner is NOT responsible for bids which are mailed to the wrong address or which arrive in the mail after the designated bid opening time. Bids may be delivered in person to the Owner's office prior to the bid opening at the location listed above.

The project will be awarded to the lowest and best bidder. However, the Owner reserves the right to accept or reject any or all bids or to waive any informality.

For bids equaling or exceeding \$50,000.00, bidder must indicate his Certificate of Responsibility number on the outside of the sealed proposal as required by the Mississippi Law.

Additional information and assistance regarding this bid opportunity, the MS Procurement Technical Assistance Program, and local contract procurement center may be found at www.mspsc.com.

Minority and women's business enterprises are solicited to bid on this contract as prime contractors and are encouraged to make inquiries regarding potential subcontracting opportunities and equipment, material and/or supply needs.

Any contract or contracts awarded under this invitation for bids are expected to be funded in whole or in part by anticipated funds from the Water Pollution Control Revolving Loan Fund (WPCRLF) loan program from the State of Mississippi. Neither the State of Mississippi, the

Commission on Environmental Quality nor any of their employees is or will be a party to this invitation for bids or any resulting or related contracts. This procurement will be subject to all applicable sections of the Mississippi code of 1972, Annotated.

Per the Mississippi Law, MS Code 31-3-21(3); any bid submitted by a non-resident contractor which does not include the non-resident contractor's current state law pertaining to such state's treatment of non-resident contractors, shall be rejected and not considered for award. If no such law exists in the non-resident contractor's state, then the non-resident contractor may provide statement to that effect.

No bidder may withdraw his bid within sixty (60) days after the actual date of the opening thereof.

A non-mandatory pre-bid conference will be held at 2:00 P.M., July 5th, 2023, at the West Jackson County Utility District Office located at 7200 McCann Road, Biloxi, MS 39532.

WEST JACKSON COUNTY UTILITY DISTRICT

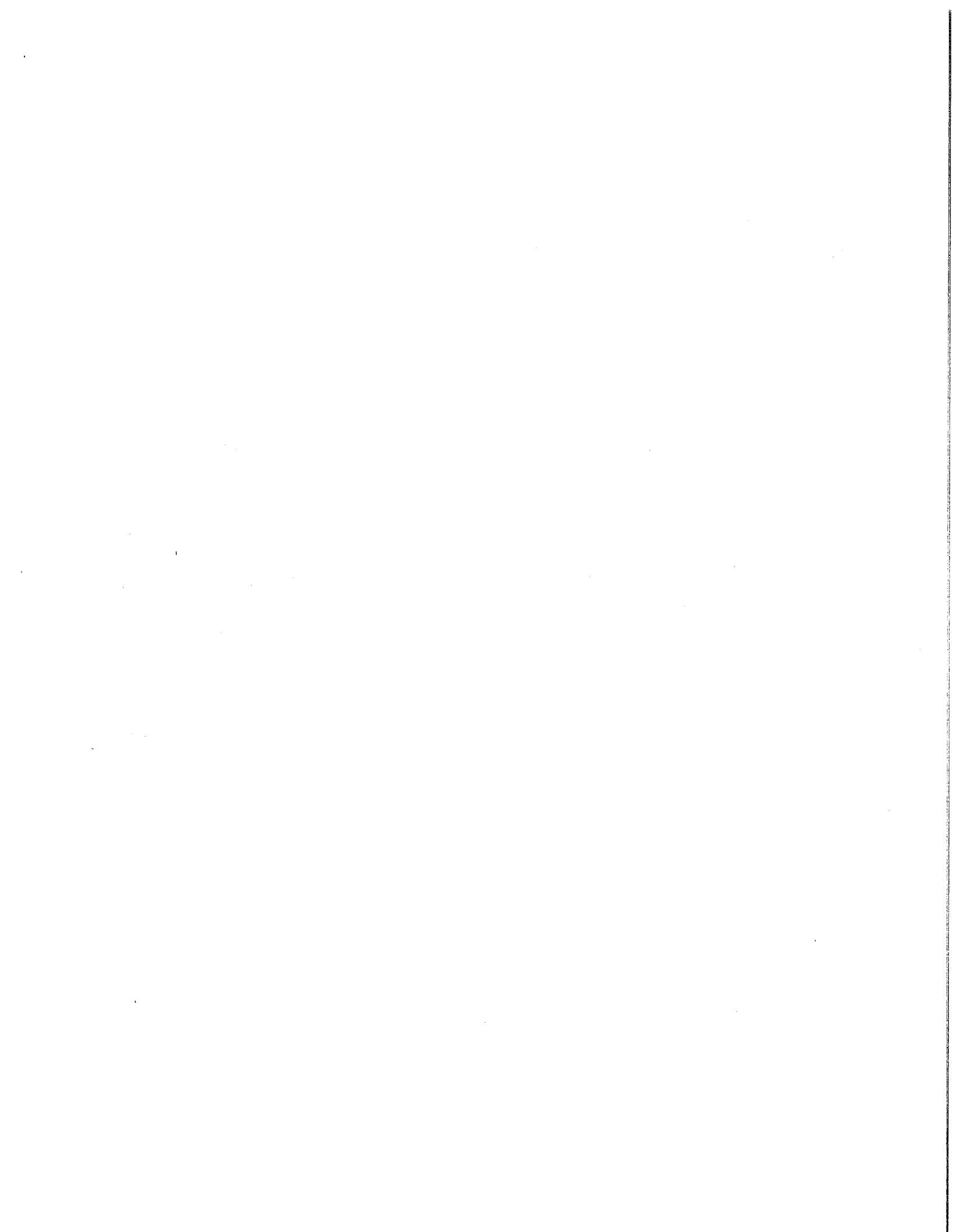
Run:

Thursday, June 8th, 2023

Friday, June 16th, 2023

SECTION B
INFORMATION FOR BIDDERS

Machado Patano, P.L.L.C.
918 Howard Ave., Ste. F
Biloxi, Mississippi, 39530



SECTION B
INFORMATION FOR BIDDERS

1. **Receipt and Opening of Bids:** Bids will be received by the West Jackson County Utility District at the office of the West Jackson County Utility District located at 7200 McCann Road, Biloxi, Mississippi, during legal office hours until 2:00 P.M., Wednesday, July 12th, 2023, at which time all bids will be publicly opened and read aloud in the Board of Supervisors' Room for Wastewater Facility Improvement Project – Phase 3.

2. **Bids:**
 - A. Shall be made on the forms provided and all applicable blank spaces filled in. Alterations, erasures or changes of any kind must be initialed by the BIDDER and shall not contain any recapitulation of the work to be done. No oral, telephonic or telegraphic proposals will be considered.

 - B. **BIDDERS ARE HEREBY NOTIFIED THAT ANY PROPOSAL ACCOMPANIED BY LETTERS, QUALIFYING IN ANY MANNER, THE CONDITION UNDER WHICH THE PROPOSAL IS TENDERED, WILL BE CONSIDERED AS AN IRREGULAR BID AND SHALL NOT BE CONSIDERED IN MAKING THE AWARD.**

 - C. Bids may be withdrawn prior to the above scheduled time for the opening of bids or authorized postponement thereof. Bids received after the time and date specified shall not be considered.

 - D. Submit bids (**3 copies**) in an opaque sealed envelope marked in the lower left hand corner as follows:
 1. Bid for construction of: Wastewater Facility Improvement Project – Phase 3
 2. Certificate of Responsibility No. ' 23104 - MC .

 - E. Any addenda issued during the bidding shall be noted on the Bid Form and shall become a part of the executed Contract.

3. **Method of Bidding:**
 - A. The bid will consist of a base bid amount in accordance with the totals bid per various items and schedules of the project Bid Form with various additive and deductive alternatives.

 - B. The West Jackson County Utility District reserves the right to reject any or all bids and to waive any or all informalities.

4. **Addenda and Interpretations:**
 - A. Should a BIDDER find discrepancies in, or omissions from, the drawings, specifications, or Contract Documents, or should they be in doubt as to their written meaning, they should at once notify the ENGINEER, in writing. Interpretations or clarifications considered necessary by Engineer in response to such questions will be issued by Addenda mailed or delivered to all parties recorded by Engineer as having received the Bidding Documents. Questions received less than ten days prior to the date for opening of Bids may not be answered. Only questions answered by Addenda will be binding. Oral and other interpretations or clarifications will be without legal effect.
 - B. Addenda may be issued to clarify, correct, or change the Bidding Documents as deemed advisable by Owner or Engineer.
 - C. Addenda to specifications or drawings that may be issued before or during the time of bidding shall be included in the bid form and will become a part of the Contract.
5. **Certificate of Responsibility Number:**
 - A. Each CONTRACTOR submitting a bid must show on the face of the envelope containing the bid, their State of Mississippi Certificate of Responsibility Number unless there appears a statement on the face of the envelope that the enclosed bid does not exceed \$50,000.00 with respect to public projects or \$100,000.00 with respect to private projects.
 - B. **No bids will be accepted, opened or considered unless the above information is given as specified.**
 - C. Sufficient evidence that said Certificate of Responsibility Number has been issued and is in effect at the time of receiving bids, and that BIDDER'S Certificate of Responsibility work classification(s) qualifies them to perform the type(s) of work required for this project, must be submitted when required by OWNER or ENGINEER.
6. **Bid Security:** Each bid must be accompanied by a certified check of the BIDDER, negotiable U.S. Government bonds (at par value), or a Bid Bond prepared on the form of a bid bond as included herein, duly executed by the BIDDER as principal and having as surety thereon a surety company licensed by the State of Mississippi and signed by an agent resident in Mississippi, **in the amount of five percent (5%) of the base bid.**
7. **Liquidated Damages for Failure to Enter into Contract:** The successful BIDDER, upon their failure or refusal to execute and deliver the contract and bonds required within ten (10) days after they have received the contract for execution, shall forfeit to the OWNER, as liquidated damages, the bid security deposited with their bid.
8. **Security for Faithful Performance:** Simultaneously with their delivery of the executed Contract, the CONTRACTOR shall furnish Contract Performance and Payment Bonds in the full amount of the Contract for the payment of all persons performing labor on this Contract and for furnishing all materials in connection with this Contract. The surety on

such Bond or Bonds shall be a duly authorized Surety Company doing business in the State of Mississippi.

9. **Law And Regulations:** The BIDDER'S attention is directed to the fact that all applicable state laws, municipal ordinances, and the rules and regulations of all authorities having jurisdiction over construction of the project shall apply to the Contract throughout, and they will be deemed to be included in the contract the same as though herein written out in full.
10. **Condition of Work:** Each BIDDER shall visit the site and inform themselves fully of the conditions at the site relating to the completion of the project. Failure to do so will not relieve a successful BIDDER of their obligation to furnish all material and labor necessary to carry out the provisions of their contract.
11. **Obligation of BIDDER:** At the time of the opening of bids, each BIDDER will be presumed to have inspected the site and to have read and to be thoroughly familiar with the Drawings, Specifications and Contract Documents (including addenda issued, if any).
12. **Time of Completion:** BIDDER must agree to commence work on or before the date specified in a written "Notice to Proceed" from the OWNER and to fully complete the project within the number of consecutive calendar days as set forth in these Contract Documents.
13. **Proposal Guarantees:** Proposal guarantees will be returned to the unsuccessful BIDDERS as soon as a Contract has been awarded and to the successful bidder after they have executed the Contract and have furnished Contract Performance and Payment Bonds and Certificates of Insurance as required.
14. **Non-Collusion Affidavit:** CONTRACTOR must complete (3 copies) the non-collusion affidavits included in the Contract Documents and submit same as part of their bid. **FAILURE TO DO SO WILL DISQUALIFY THEIR BID.**
15. **Subcontractor:** The BIDDER is specifically advised that any person, firm or other party to whom it proposes to award a subcontract must be acceptable to the OWNER. **The total allowable subcontract amount shall not exceed fifty percent (50%) of contract amount unless otherwise approved by the OWNER.**
16. **Qualifications of Subcontractors: Material and Equipment Suppliers:**
 - A. Within ten (10) working days after award of contract, the CONTRACTOR will submit to the OWNER and the ENGINEER for acceptance, a list of the names of Subcontractors and such other persons and organizations (including those who are to furnish principal items of materials or equipment) proposed for those portions of the Work as to which the identity of the Subcontractors and other persons and organizations must be submitted as specified in the Contract Documents. Within thirty (30) working days after receiving the list, the ENGINEER will notify the CONTRACTOR in writing if either the OWNER or the ENGINEER, after due investigation, has reasonable objection to any Subcontractor, person or organization on such list. The failure of the OWNER or the ENGINEER to make objection to any Subcontractor, person or organization on the list within thirty (30) working days of receipt shall constitute an acceptance of such Subcontractor, person or

organization but shall not constitute a waiver of any right of the OWNER or the ENGINEER to reject any WORK, MATERIAL or EQUIPMENT that is not in conformance with the requirements of the Contract Documents.

- B. The CONTRACTOR will not employ any Subcontractor, other person or organization, whether initially or as a substitute, against whom the OWNER or the ENGINEER may have reasonable objection, nor will the CONTRACTOR be required to employ a Subcontractor who has been accepted by the OWNER and the ENGINEER, unless the ENGINEER determines that there is good cause for doing so.
- C. The CONTRACTOR shall be fully responsible for all acts and omissions of his Subcontractors and of persons and organizations directly or indirectly employed by them and of persons and organizations for whose acts any of them may be liable to the same extent that he is responsible for the acts and omissions of persons directly employed by him. Nothing in the Contract Documents shall create any obligation on the part of OWNER or ENGINEER to pay or to see to the payment of monies due Subcontractors or other persons or organizations, except as may otherwise be required by law. OWNER or ENGINEER may furnish to Subcontractors or other persons or organizations, to the extent practicable, evidence of amounts paid to the CONTRACTOR on account of specific Work done in accordance with the schedule of values.
- D. The divisions and sections of the Specifications and the identifications of Drawings shall not control the CONTRACTOR in dividing the Work among Subcontractors or delineating the Work to be performed by specific trades.
- E. The CONTRACTOR agrees to bind specifically every Subcontractor to the applicable terms and conditions of the Contract Documents for the benefit of the OWNER.
- F. All Work performed for the CONTRACTOR by a Subcontractor shall be pursuant to an appropriate agreement between the CONTRACTOR and the Subcontractor.
- G. The CONTRACTOR shall be responsible for the coordination of the trades and Subcontractors engaged in the Work.
 - a. The CONTRACTOR shall cause appropriate provisions to be inserted in all subcontracts relative to the Work to bind Subcontractors to the CONTRACTOR by the terms of these General Conditions and other Contract Documents insofar as applicable to the Work of Subcontractors, and to give the CONTRACTOR the same power as regards terminating subcontracts that the OWNER may exercise over the CONTRACTOR under provisions of the Contract Documents.
 - b. The OWNER or ENGINEER will not undertake to settle differences between the CONTRACTOR and his Subcontractors or between Subcontractors.

- c. If in the opinion of the ENGINEER, a Subcontractor on the Project proves to be incompetent or otherwise unsatisfactory, he shall be replaced if and when the CONTRACTOR is so directed in writing.

H. The Contractor acknowledges to and for the benefit of Owner that it understands the goods and services under this Agreement are being funded with monies made available by the Water Pollution Control Revolving Loan Fund (WPCRLF) that have requirements commonly known as "American Iron and Steel;" that requires all of the iron and steel products used in the project to be produced in the United States ("American Iron and Steel Requirement") including iron and steel products provided by the Contractor pursuant to this Agreement. The Contractor hereby represents and warrants to and for the benefit of the Owner that (a) the Contractor has reviewed and understands the American Iron and Steel Requirement, (b) all of the iron and steel products used in the project will be and/or have been produced in the United States in a manner that complies with the American Iron and Steel Requirement, unless a waiver of the requirement is approved, and (c) the Contractor will provide any further verified information, certification or assurance of compliance with this paragraph, or information necessary to support a waiver of the American Iron and Steel Requirement, as may be requested by the Owner. Notwithstanding any other provision of this Agreement, any failure to comply with this paragraph by the Contractor shall permit the Owner to recover as damages against the Contractor any loss, expense, or cost (including without limitation attorney's fees) incurred by the Owner resulting from any such failure (including without limitation any impairment or loss of funding, whether in whole or in part, from the WPCRLF)

17. **Qualifications of BIDDERS:** The OWNER may make such investigations as he deems necessary to determine the ability of the BIDDER to perform the work and the BIDDER shall furnish to the OWNER, within five (5) days of OWNER's request, all such information and data for this purpose as the OWNER may request. The OWNER reserves the right to reject a Bid if the evidence submitted by or investigation of such BIDDER fails to satisfy the OWNER that such BIDDER is properly qualified to carry out the items of Work contemplated therein.
17. **Disadvantaged Business Utilization Requirements:** Good faith efforts as required in the Water Pollution Control Revolving Loan Fund Loan Program Regulations shall be made by BIDDERS to utilize minority-owned and women-owned businesses as sources of construction, materials, supplies and services. Such efforts must allow these sources the maximum feasible opportunity to compete for subagreements and contracts. Documentation of efforts made to utilize minority and women-owned firms must be maintained by all BIDDERS. The OWNER's goal for minority-owned business participation as a percentage of construction cost is 3.6 %. The OWNER's goal for women-owned business participation is 2.1 %.
- The lowest qualified **BIDDER** must submit to the **OWNER** within 10 days after **BID** opening, proof of compliance with the Contract Provisions including required documentation regarding the use of minority and women's businesses. (See Section J11 – NPESRF77 Supplemental General Conditions).

The supplemental General Conditions provide a list of qualified minority and women's business enterprises for assisting contractors in their MBE/WBE solicitation efforts.

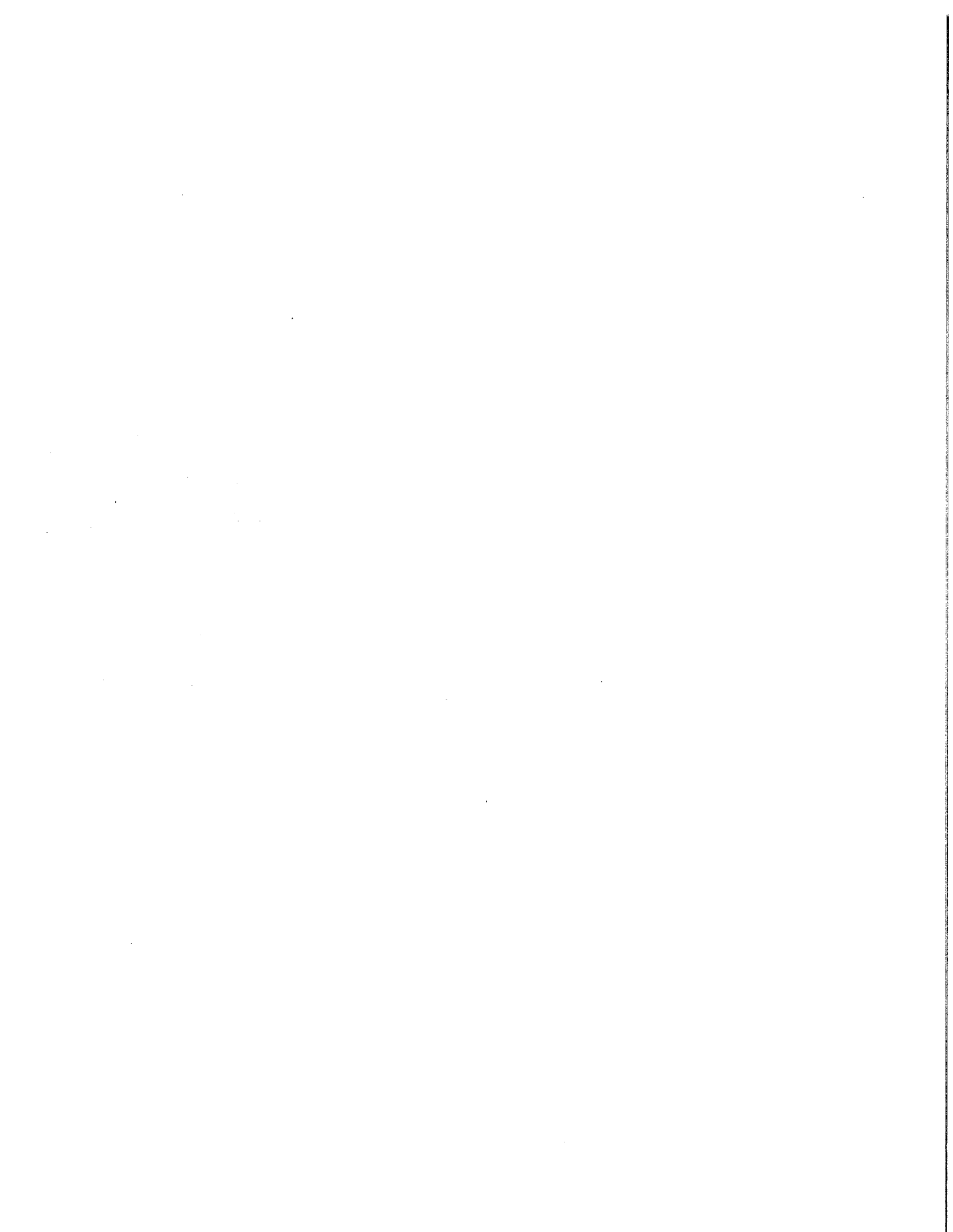
18. **Contract Funding:** Any contract or contracts awarded under this invitation for bids are expected to be funded in whole or in part by anticipated funds from a combination of the Water Pollution Control Revolving Loan Fund (WPCRLF) loan program and American Rescue Plan Act loan program from the State of Mississippi. Neither the State of Mississippi, the Commission on Environmental Quality nor any of their employees is or will be a party to this invitation for bids or any resulting or related contracts. This procurement will be subject to all applicable sections of the Mississippi code of 1972, Annotated.

Based on the Assistance Listing: Coronavirus State and Local Fiscal Recovery Funds and Part 2 of the US Treasury State and Local Fiscal Recovery Funds Compliance and Reporting Guidance (v3.0 February 2022) (Compliance Guide), the following Uniform Guidance provisions will be required in all contracts:

- Subpart A, Acronyms and Definitions
 - Subpart B, General provisions
 - Subpart C, Pre-Federal Award Requirements and Contents of Federal Awards (except 2 CFR 200.204, .205, .210, and .213)
 - Subpart D, Post Federal; Award Requirements (except 2 CFR 200.305(b)(8) & (9), .308, .309, and .320(c)(4))
 - Subpart E, Cost Principles
 - Subpart F, Audit Requirements
 - 2 CFR Part 25 (Universal Identifier & System for Award Management)
 - 2 CFR Part 170 (Reporting Subaward and Executive Compensation Information)
 - 2 CFR Part 180 (OMB Guidelines to Agencies on Governmentwide Debarment and Suspension (Non-procurement))
 - 2 CFR 200 Appendix ii
19. **Subgrantee Procurement:** Subgrantees must follow federal procurement guidelines detailed within the Uniform Guidance (2 CFR 200), which establishes uniform administrative requirements, cost principles, and audit requirements for federal awards to non-federal entities, when procuring all engineering service providers.
20. **Insurance:** The CONTRACTOR will be required to carry the types and amounts of insurance specified in the Project Supplemental Conditions, Section K.4, as enclosed herein for the full term of the Contract.
21. **Contract Award:** Award of Contract, if made, shall be within **60 days** of date of receipt of Bids.
22. **Issuance of "Notice to Proceed":** If the Contract is awarded, the OWNER will issue the "Notice to Proceed" within **15 days** after the date of agreement of the Contract.
23. **Pre-bid Conference:** A non-mandatory pre-bid conference will be held at 2:00 P.M., July 5th, 2023, at the West Jackson County Utility District Office located at 7200 McCann Road, Biloxi, MS 39532.

SECTION C
BID FORM AND BIDDERS CERTIFICATES

Machado Patano, P.L.L.C.
918 Howard Ave., Ste. F
Biloxi, Mississippi, 39530



BID FORM

Proposal of Bottom 2 Top Construct (hereinafter called "BIDDER"), organized and existing under the laws of the State of Mississippi doing business as a Individual insert: (corporation, partnership, limited liability company, or individual) to: West Jackson County Utility District (hereinafter called "OWNER"). In compliance with your advertisement for Bids, BIDDER, hereby proposes to perform all WORK for construction of the Wastewater Facility Improvement Project – Phase 3 in strict accordance with the CONTRACT DOCUMENTS, within the time set forth herein, and at the prices stated below. By submission of the BID, each BIDDER certifies, and in the case of a joint BID each party thereto certifies as to his own organization, that this BID has been developed independently, without consultation, communication or agreement as to any matter relating to this BID with any other BIDDER or with any competitor.

BIDDER hereby agrees to commence WORK under this contract on or before a date to be specified in a written "NOTICE TO PROCEED" and to fully complete the Project within 365 consecutive calendar days thereafter. BIDDER further agrees to pay as liquidated damages, the sum of \$ 500 for each consecutive calendar day thereafter as provided for elsewhere in these CONTRACT DOCUMENTS.

BIDDER ACKNOWLEDGES receipt of the following ADDENDA:

NUMBER:	<u>1</u>	DATE:	<u>6/30/23</u>
NUMBER:	<u>2</u>	DATE:	<u>7/11/23</u>
NUMBER:	<u>3</u>	DATE:	<u>7/13/23</u>
NUMBER:	_____	DATE:	_____

Each BIDDER is responsible for inspecting the site and for reading and being thoroughly familiar with the CONTRACT DOCUMENTS. The failure or omission of any BIDDER to do any of the foregoing shall in no way relieve any BIDDER from any obligation in respect to this bid.

BIDDER understands that the quantities mentioned below are approximate only and are subject to either increase or decrease, and hereby proposes to perform any increased or decreased quantities of work at the Unit Price Bid.

In accordance with the requirements of the Plans, Specifications and Contract Documents, BIDDER proposes to furnish all necessary materials, equipment, labor, tools and other means of construction and to construct the Project in accordance with the Contract Documents within the specified Contract Time for the following Unit Prices specified.

BIDDER further agrees to execute the contract agreement as bound herein within ten (10) days after receipt of contract forms from the OWNER.

BIDDER agrees to pay as liquidated damages the amount provided herein for each consecutive calendar day after the Contract completion date specified in a written "NOTICE TO PROCEED" that he fails to complete the work unless the Contract Time is extended by a written Change Order.

BIDDER also proposes to execute a Performance Bond and a Payment Bond, as shown in the Specifications, each in an amount of not less than **one hundred percent (100%)** of the total of the Base Bid. These Bonds shall not only serve to guarantee the completion of the work on the BIDDERS part, but also to guarantee the excellence of both workmanship and materials until the work is finally accepted.

BIDDER encloses a Bid Bond or Certified Check, negotiable U.S. Government bonds (at par value), for 5% of Base Bid Amount DOLLARS (\$186,578) and hereby agree that in case of failure to execute the Contract and furnish the required Bonds within (10) days after the Receipt of Contract Forms, the amount of this Certified Check or Bid Bond will be forfeited to the OWNER, as liquidated damages arising out of his failure to execute the Contract as proposed.

It is understood that in case BIDDER is awarded the work, the Certified Check or Bid Bond, negotiable U.S. Government bonds (at par value), submitted as Bid security will be returned as stipulated in the Specifications.

Further, the BIDDER agrees to abide by the requirements under Executive Order No. 11246, as amended, including specifically the provision of the Equal Opportunity Clause set forth in the Federal Requirements, if applicable.

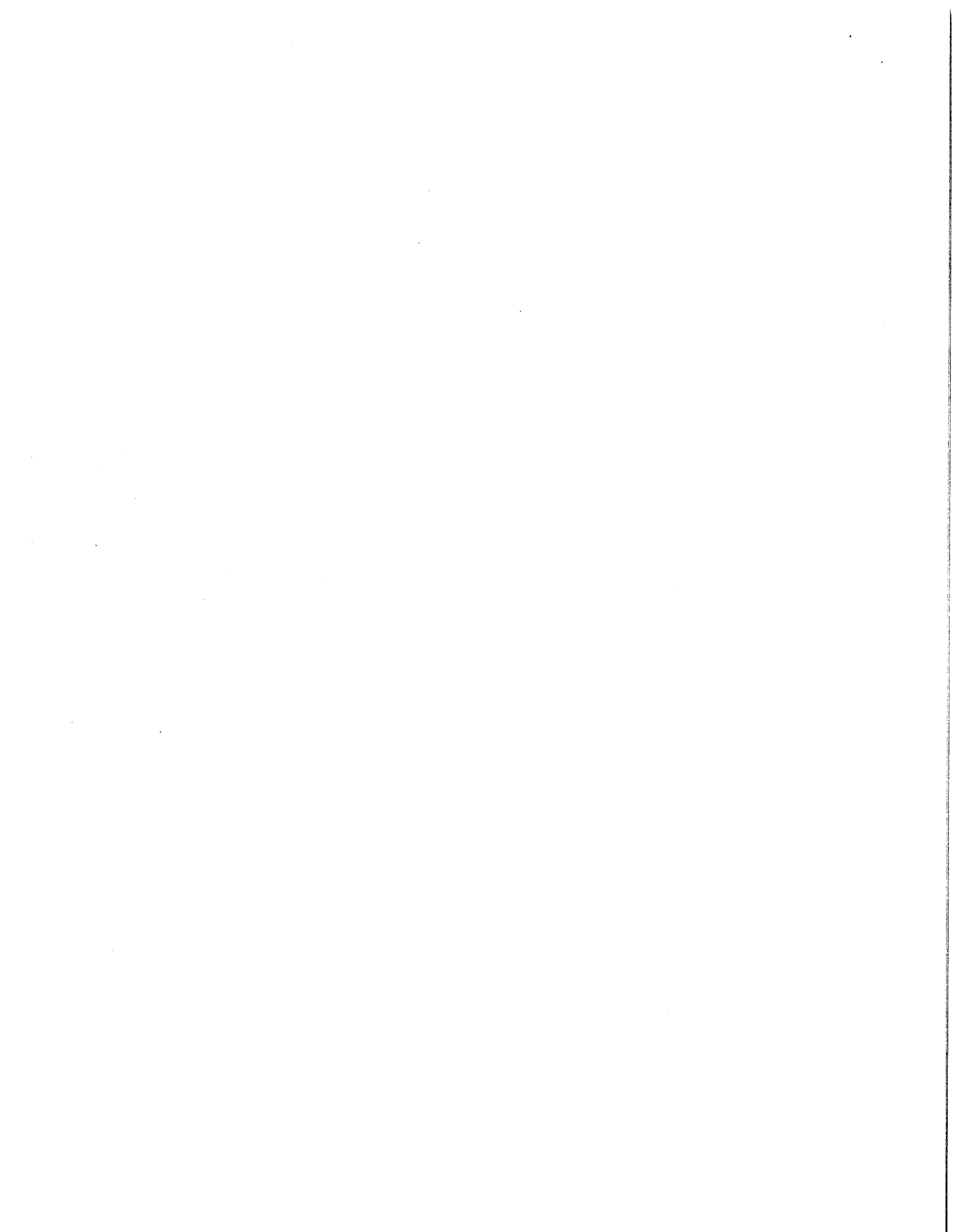
The low BIDDER shall supply the names and address of major MATERIAL SUPPLIERS AND SUBCONTRACTORS when required to do so by the OWNER.

BIDDER agrees to perform all the work described in the CONTRACT DOCUMENTS for the following unit prices or base bid amount: **SEE PAGE C-4 FOR BID ITEMS**

NOTES:

1. Unit price amounts are to be shown in figures and words where indicated. Where a discrepancy in the unit price and the extension of any items occurs, the unit price will govern.
2. Unit prices shall include all labor, materials, bonding, shoring, removal, overhead, profit, insurance, etc., to cover the finished work of the several kinds called for.
3. Any erasure, change or alteration of any kind must be initialed by the BIDDER.
4. Bid prices shall include sales tax and all other applicable taxes and fees.
5. Any item of work not specified on the Proposal as a separate pay item or indicated as an absorbed cost in a pay item but which is incidental to completion of the work shall be considered as an absorbed cost with full compensation included in the unit price bid for the particular item involved.
6. OWNER reserves the right to award any combination of base and alternate bids (if any) it deems advantageous and in the event that all specified bid item units are lump sum (LS), the OWNER reserves the right to delete any such item or combination of such items from the project. The OWNER further reserves the right to delete any item or items desired from the Bid Schedule after the Contract has been awarded. Any deletions, if any made, shall be by Change Order and BIDDER hereby agrees to accept such Change Orders.

The required bid security is attached hereto and made a condition of this Bid.



BID SCHEDULE

BASE BID - BID SCHEDULE

<u>ITEM NO.</u>	<u>QTY / UNIT</u>	<u>DESCRIPTION</u>	<u>UNIT \$</u>	<u>TOTAL EXT.</u>
1	1 / LS	MOBILIZATION at <u>twenty thousand</u> dollars <u>zero</u> cents	\$ <u>20,000.00</u>	\$ <u>20,000.00</u>
2	1 / LS	PROJECT VIDEO at <u>three thousand</u> dollars <u>zero</u> cents	\$ <u>3,000.00</u>	\$ <u>3,000.00</u>
3	1 / LS	MAINTENANCE OF TRAFFIC at <u>twelve thousand</u> dollars <u>zero</u> cents	\$ <u>12,000.00</u>	\$ <u>12,000.00</u>
4	8 / ACRE	CLEARING AND GRUBBING (PM) at <u>ten thousand and five hundred</u> dollars <u>zero</u> cents	\$ <u>10,500.00</u>	\$ <u>84,000.00</u>
5	300 / LF	REMOVAL OF FENCE, ALL TYPES at <u>ten</u> dollars <u>zero</u> cents	\$ <u>10.00</u>	\$ <u>3,000.00</u>

6	1000 / CY	REMOVAL OF OBSTRUCTIONS at _____ dollars _____ cents	\$ <u>10.00</u>	\$ <u>10,000.00</u>
7	1 / LS	REMOVAL OF EXISTING LIFT STATION - PORTLAND at <u>sixteen thousand two hundred and twenty</u> dollars _____ cents	\$ <u>16,220.00</u>	\$ <u>16,220.00</u>
8	1 / LS	REMOVAL OF EXISTING LIFT STATION - TRENTON at <u>sixteen thousand two hundred twenty</u> dollars _____ cents	\$ <u>16,220.00</u>	\$ <u>16,220.00</u>
9	1 / LS	REMOVAL OF EXISTING LIFT STATION - BAYOU PLACE at <u>sixteen thousand two hundred twenty</u> dollars _____ cents	\$ <u>16,220.00</u>	\$ <u>16,220.00</u>
10	3500 / LF	REMOVAL OF PIPE (ALL SIZES) at _____ dollars _____ cents	\$ <u>10.00</u>	\$ <u>35,000.00</u>
11	7 / EA	REMOVAL OF SEWER MANHOLE at <u>eight hundred fifty</u> dollars _____ cents	\$ <u>850.00</u>	\$ <u>5,950.00</u>

12	5200 / SY	REMOVAL OF ASPHALT PAVEMENT (ALL THICKNESSES) at _____ dollars _____ cents	\$ <u>10.00</u>	\$ <u>52,000.00</u>
13	1050 / SY	REMOVAL OF CONCRETE PAVEMENT (ALL THICKNESSES) at _____ dollars _____ cents	\$ <u>10.00</u>	\$ <u>10,500.00</u>
14	3100 / LF	REMOVAL OF CONCRETE CURB (ALL TYPES) at _____ dollars _____ cents	\$ <u>10.00</u>	\$ <u>31,000.00</u>
15	50 / CY	FLOWABLE FILL at _____ dollars _____ cents	\$ <u>319.60</u>	\$ <u>15,980.00</u>
16	1000 / CY	SELECT BEDDING MATERIAL (PM) at _____ dollars _____ cents	\$ <u>17.08</u>	\$ <u>17,080.00</u>

17	1000 / CY	SELECT FOUNDATION MATERIAL (PM) at one hundred twenty three dollars ninety cents	\$ <u>123.90</u>	\$ <u>123,900.00</u>
18	20000 / CY	UNCLASSIFIED EXCAVATION (PM) at ten dollars zero cents	\$ <u>10.00</u>	\$ <u>200,000.00</u>
19	5000 / CY	EXCESS EXCAVATION (PM) at ten dollars zero cents	\$ <u>10.00</u>	\$ <u>50,000.00</u>
20	5000 / CY	BORROW EXCAVATION (PM) (AH) seventeen dollars eight cents	\$ <u>17.08</u>	\$ <u>85,400.00</u>
21	1000 / SY	EROSION CONTROL MAT at four dollars seventy six cents	\$ <u>4.76</u>	\$ <u>4,760.00</u>
22	10000 / SY	SEEDING (PM) at three dollars sixty six cents	\$ <u>3.66</u>	\$ <u>36,600.00</u>

23	10000 / SY	SODDING (PM) at _____ dollars <u>Seven</u> dollars <u>thirty two</u> cents	\$ <u>7.32</u>	\$ <u>73,200.00</u>
24	11000 / LF	TEMPORARY SILT FENCE at _____ dollars <u>four</u> dollars <u>sixty five</u> cents	\$ <u>4.65</u>	\$ <u>51,150.00</u>
25	2000 / LF	TEMPORARY STRAW WATTLES at _____ dollars <u>four</u> dollars <u>eighty one</u> cents	\$ <u>4.81</u>	\$ <u>9,620.00</u>
26	2000 / CY	SIZE II STABILIZER AGGREGATE (GRAVEL) (PM) at _____ dollars <u>one hundred twenty three</u> dollars <u>ninety</u> cents	\$ <u>123.90</u>	\$ <u>247,800.00</u>
27	1000 / CY	"610" LIMESTONE (PM) at _____ dollars <u>one hundred twenty three</u> dollars <u>ninety</u> cents	\$ <u>123.90</u>	\$ <u>123,900.00</u>
28	5200 / SY	HOT BITUMINOUS PAVEMENT, 4" THICK BASE COURSE (TYPE 19mm) at _____ dollars <u>fourty eight</u> dollars <u>seventy four</u> cents	\$ <u>48.74</u>	\$ <u>253,448.00</u>

29	5200 / SY	HOT BITUMINOUS PAVEMENT, 2" THICK SURFACE COURSE (TYPE 9.5mm) at <u>Twenty five</u> dollars <u>thirty two</u> cents	\$ <u>25.32</u>	\$ <u>131,664</u>
30	1050 / SY	PLAIN CEMENT CONCRETE PAVEMENT, 6" THICK at <u>One hundred fifteen</u> dollars <u>ninety</u> cents	\$ <u>115.90</u>	\$ <u>121,695</u>
31	3100 / LF	CONCRETE CURB at <u>Nineteen</u> dollars <u>fifty two</u> cents	\$ <u>19.52</u>	\$ <u>60,512</u>
32	1 / LS	NEW PORTLAND DRIVE LIFT STATION at <u>Five hundred seventy thousand six hundred sixteen</u> dollars <u>eighty</u> cents	\$ <u>570,616.80</u>	\$ <u>570,616.80</u>
33	2 / EA	4' DIAMETER PRECAST CONCRETE MANHOLE (0'-4') at <u>three thousand four hundred ninety three</u> dollars <u>sixty eight</u> cents	\$ <u>3493.68</u>	\$ <u>6987.36</u>

34	3 / EA	4' DIAMETER PRECAST CONCRETE MANHOLE (4'-6') at <u>three thousand</u> <u>nine hundred</u> <u>thirteen</u> dollars <u>thirty six</u> cents	\$ <u>3,913.36</u>	\$ <u>11,740.08</u>
35	12 / EA	4' DIAMETER PRECAST CONCRETE MANHOLE (6'-8') at <u>four thousand</u> <u>three hundred</u> <u>thirty seven</u> dollars <u>ninety two</u> cents	\$ <u>4,337.92</u>	\$ <u>52,055.04</u>
36	13 / EA	4' DIAMETER PRECAST CONCRETE MANHOLE (8'-10') at <u>four thousand</u> <u>seven hundred</u> thirty <u>sixty two</u> dollars <u>fourty eight</u> cents	\$ <u>4,762.48</u>	\$ <u>61,912.24</u>
37	4 / EA	4' DIAMETER PRECAST CONCRETE MANHOLE (10'-12') at <u>five thousand</u> <u>three hundred</u> <u>eighty two</u> dollars <u>sixteen</u> cents	\$ <u>5,382.16</u>	\$ <u>21,528.64</u>
38	2 / EA	4' DIAMETER PRECAST CONCRETE MANHOLE (12'-14') at <u>five thousand</u> <u>nine hundred</u> <u>six</u> dollars <u>seventy two</u> cents	\$ <u>5,906.72</u>	\$ <u>11,813.44</u>

39	2 / EA	4' DIAMETER PRECAST CONCRETE MANHOLE (14'-16') at <u>six thousand five</u> <u>hundred thirty one</u> dollars <u>twenty eight</u> cents	\$ <u>6,531.28</u>	\$ <u>13,062.56</u>
40	630 / SF	100% EPOXY LINER at <u>six hundred</u> <u>thirteen</u> dollars <u>thirty seven</u> cents	\$ <u>613.37</u>	\$ <u>386,423.16</u>
41	1600 / LF	GRAVITY SANITARY SEWER SERVICE (ALL SIZES) at <u>twenty two</u> dollars <u>sixty six</u> cents	\$ <u>22.66</u>	\$ <u>36,256.00</u>
42	10 / EA	LOW PRESSURE SANITARY SEWER SERVICE (ALL SIZES) at <u>one thousand</u> <u>three hundred</u> <u>forty six</u> dollars <u>seventy</u> cents	\$ <u>1,346.70</u>	\$ <u>13,467.00</u>
43	4500 / LF	8" PVC SDR-26 SANITARY SEWER MAIN at <u>forty one</u> dollars <u>thirty two</u> cents	\$ <u>41.32</u>	\$ <u>185,940.00</u>

44	3800 / LF	12" PVC SDR-26 SANITARY SEWER MAIN at Sixty three dollars Forty nine cents	\$ <u>63.49</u>	\$ <u>241,262.00</u>
45	40 / LF	24" DUCTILE IRON PIPE SLEEVE at Two hundred fifty one dollars Fifty eight cents	\$ <u>251.58</u>	\$ <u>10,063.20</u>
46	1 / EA	10" GATE VALVE at Seventy five thousand dollars Zero cents	\$ <u>75,000.00</u>	\$ <u>75,000.00</u>
47	680 / LF	10" PVC SEWER FORCE MAIN at Sixty eight dollars eight cents	\$ <u>68.08</u>	\$ <u>46,294.40</u>
48	1 / EA	10" TAPPING SLEEVE AND VALVE at Nine thousand four hundred seventy two dollars Seventy two cents	\$ <u>9,472.70</u>	\$ <u>9,472.70</u>
49	20 / EA	RESIDENTIAL WATER SERVICE (ALL SIZES) at One thousand six hundred ninety six dollars eleven cents	\$ <u>1,696.11</u>	\$ <u>33,922.20</u>

50	20 / LF	12" RCP STORM PIPE at <u>forty one</u> dollars <u>seventy nine</u> cents	\$ <u>41.79</u>	\$ <u>835.80</u>
51	20 / LF	15" RCP STORM PIPE at <u>forty six</u> dollars <u>seventeen</u> cents	\$ <u>46.17</u>	\$ <u>923.40</u>
52	20 / LF	18" RCP STORM PIPE at <u>fifty three</u> dollars <u>ninety</u> cents	\$ <u>53.90</u>	\$ <u>1,078.00</u>
53	100 / LF	CHAIN LINK FENCE at <u>thirty</u> dollars <u>twenty</u> cents	\$ <u>30.20</u>	\$ <u>3,020.00</u>
54	200 / LF	WOOD FENCE at <u>thirty nine</u> dollars <u>sixty five</u> cents	\$ <u>39.65</u>	\$ <u>7,930.00</u>

55	300 / LF	2" PVC WATER MAIN (INCLUDING FITTINGS, VALVES, ETC.) at <u>twenty three</u> _____ dollars <u>eleven</u> cents	\$ <u>23.11</u>	\$ <u>6,933.00</u>
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BASE BID TOTAL: \$ 3,730,355.96

(IN WORDS) 3 three million, seven hundred
thirty thousand, three hundred fifty five DOLLARS
ninety six CENTS

ALTERNATE NO.1 - BID SCHEDULE

<u>ITEM NO.</u>	<u>QTY / UNIT</u>	<u>DESCRIPTION</u>	<u>UNIT \$</u>	<u>TOTAL EXT.</u>
1	1 / LS	PROJECT VIDEO at _____ <u>three thousand</u> dollars _____ <u>zero</u> cents	\$ <u>3,000.00</u>	\$ <u>3,000.00</u>
2	1 / LS	MAINTENANCE OF TRAFFIC at _____ <u>twelve thousand</u> dollars _____ <u>zero</u> cents	\$ <u>12,000.00</u>	\$ <u>12,000.00</u>
3	60 / LF	REMOVAL OF FENCE, ALL TYPES at _____ <u>ten</u> dollars _____ cents	\$ <u>10.00</u>	\$ <u>600.00</u>
4	100 / CY	REMOVAL OF OBSTRUCTIONS at _____ <u>ten</u> dollars _____ <u>zero</u> cents	\$ <u>10.00</u>	\$ <u>1,000.00</u>
5	670 / LF	REMOVAL OF PIPE (ALL SIZES) at _____ <u>ten</u> dollars _____ <u>zero</u> cents	\$ <u>10.00</u>	\$ <u>6,700.00</u>

6	6 / EA	REMOVAL OF SEWER MANHOLE at <u>three hundred</u> dollars <u>zero</u> cents	\$ <u>300.00</u>	\$ <u>1,800.00</u>
7	2500 / SY	REMOVAL OF ASPHALT PAVEMENT (ALL THICKNESSES) at <u>ten</u> dollars <u>zero</u> cents	\$ <u>10.00</u>	\$ <u>25,000.00</u>
8	400 / SY	REMOVAL OF CONCRETE PAVEMENT (ALL THICKNESSES) at <u>ten</u> dollars <u>zero</u> cents	\$ <u>10.00</u>	\$ <u>4,000.00</u>
9	1720 / LF	REMOVAL OF CONCRETE CURB (ALL TYPES) at <u>ten</u> dollars <u>zero</u> cents	\$ <u>10.00</u>	\$ <u>17,200.00</u>
10	20 / CY	FLOWABLE FILL at <u>three hundred nineteen</u> dollars <u>sixty</u> cents	\$ <u>319.60</u>	\$ <u>6,392.00</u>

11	500 / CY	SELECT BEDDING MATERIAL (PM) at _____ dollars _____ cents	\$ <u>17.08</u>	\$ <u>8,540.00</u>
12	500 / CY	SELECT FOUNDATION MATERIAL (PM) at _____ dollars _____ cents	\$ <u>123.90</u>	\$ <u>61,950.00</u>
13	4100 / CY	UNCLASSIFIED EXCAVATION (PM) at _____ dollars _____ cents	\$ <u>10.00</u>	\$ <u>41,000.00</u>
14	1000 / CY	EXCESS EXCAVATION (PM) at _____ dollars _____ cents	\$ <u>10.00</u>	\$ <u>10,000.00</u>
15	1000 / CY	BORROW EXCAVATION (PM) (AH) CLASS B3 at _____ dollars _____ cents	\$ <u>17.08</u>	\$ <u>17,080.00</u>
16	100 / SY	EROSION CONTROL MAT at _____ dollars _____ cents	\$ <u>4.76</u>	\$ <u>476.00</u>

17	5000 / SY	SEEDING (PM) at _____ dollars <u>three</u> dollars _____ cents <u>sixty six</u> cents	\$ <u>3.66</u>	\$ <u>18,300.00</u>
18	5000 / SY	SODDING (PM) at _____ dollars <u>seven</u> dollars _____ cents <u>thirty two</u> cents	\$ <u>7.32</u>	\$ <u>36,600.00</u>
19	2000 / LF	TEMPORARY SILT FENCE at _____ dollars <u>four</u> dollars _____ cents <u>sixty five</u> cents	\$ <u>4.65</u>	\$ <u>9,300.00</u>
20	400 / LF	TEMPORARY STRAW WATTLES at _____ dollars <u>four</u> dollars _____ cents <u>eighty one</u> cents	\$ <u>4.81</u>	\$ <u>1,924.00</u>
21	50 / CY	SIZE II STABILIZER AGGREGATE (GRAVEL) (PM) at _____ dollars <u>one hundred twenty three</u> dollars _____ cents <u>ninety</u> cents	\$ <u>123.90</u>	\$ <u>6,195.00</u>
22	510 / CY	"610" LIMESTONE (PM) at _____ dollars <u>one hundred twenty three</u> dollars _____ cents <u>ninety</u> cents	\$ <u>123.90</u>	\$ <u>63,189.00</u>

23	2500 / SY	HOT BITUMINOUS PAVEMENT, 4" THICK BASE COURSE (TYPE 19mm) at <u>Forty eight</u> dollars <u>seventy four</u> cents	\$ <u>48.74</u>	\$ <u>121,850.00</u>
24	2500 / SY	HOT BITUMINOUS PAVEMENT, 2" THICK SURFACE COURSE (TYPE 9.5mm) at <u>Twenty five</u> dollars <u>thirty two</u> cents	\$ <u>25.32</u>	\$ <u>63,300</u>
25	400 / SY	PLAIN CEMENT CONCRETE PAVEMENT, 6" THICK at <u>One hundred fifteen</u> dollars <u>ninety</u> cents	\$ <u>115.90</u>	\$ <u>46,360</u>
26	1720 / LF	CONCRETE CURB at <u>Nineteen</u> dollars <u>fifty two</u> cents	\$ <u>19.52</u>	\$ <u>33,574.40</u>
27	3 / EA	4' DIAMETER PRECAST CONCRETE MANHOLE (4'-6') at <u>Three thousand nine hundred thirteen</u> dollars <u>thirty six</u> cents	\$ <u>3913.36</u>	\$ <u>11,740.08</u>

28	2 / EA	4' DIAMETER PRECAST CONCRETE MANHOLE (6'-8') at <u>Four thousand</u> <u>three hundred thirty seven</u> dollars <u>ninety two</u> cents	\$ <u>4337.92</u>	\$ <u>8675.84</u>
29	1 / EA	4' DIAMETER PRECAST CONCRETE MANHOLE (8'-10') at <u>Four thousand seven</u> <u>hundred sixty two</u> dollars <u>forty eight</u> cents	\$ <u>4762.48</u>	\$ <u>4762.48</u>
30	1 / EA	4' DIAMETER PRECAST CONCRETE MANHOLE (10'-12') at <u>Five thousand three</u> <u>hundred eighty two</u> dollars <u>sixteen</u> cents	\$ <u>5382.16</u>	\$ <u>5382.16</u>
31	1250 / LF	GRAVITY SANITARY SEWER SERVICE (ALL SIZES) at <u>Twenty two</u> dollars <u>sixty six</u> cents	\$ <u>22.66</u>	\$ <u>28325</u>
32	10 / EA	LOW PRESSURE SANITARY SEWER SERVICE (ALL SIZES) at <u>One thousand three</u> <u>hundred forty six</u> dollars <u>seventy</u> cents	\$ <u>1346.70</u>	\$ <u>13467</u>

33	1710 / LF	8" PVC SDR-26 SANITARY SEWER MAIN at _____ dollars _____ cents	\$ <u>41.32</u>	\$ <u>70,657.20</u>
34	10 / EA	RESIDENTIAL WATER SERVICE (ALL SIZES) at one thousand six hundred ninety six dollars _____ cents	\$ <u>1,696.11</u>	\$ <u>16,961.10</u>
35	20 / LF	15" RCP STORM PIPE at _____ dollars _____ cents	\$ <u>46.17</u>	\$ <u>923.40</u>
36	20 / LF	18" RCP STORM PIPE at _____ dollars _____ cents	\$ <u>53.90</u>	\$ <u>1,078.00</u>
37	40 / LF	CHAIN LINK FENCE at _____ dollars _____ cents	\$ <u>30.20</u>	\$ <u>1,208.00</u>

38	20 / LF	WOOD FENCE at <u>Thirty nine</u> dollars <u>Sixty five</u> cents	\$ <u>39.65</u>	\$ <u>793.00</u>
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ALTERNATE NO.1 BID TOTAL: \$ 781,303.66

(IN WORDS) Seven hundred eighty one thousand

three hundred and three DOLLARS

sixty six CENTS

ALTERNATE NO.2 - BID SCHEDULE

<u>ITEM NO.</u>	<u>QTY / UNIT</u>	<u>DESCRIPTION</u>	<u>UNIT \$</u>	<u>TOTAL EXT.</u>
1	1 / LS	PROJECT VIDEO at _____ <u>three thousand</u> dollars _____ <u>zero</u> cents	\$ <u>3,000.00</u>	\$ <u>3,000.00</u>
2	1 / LS	MAINTENANCE OF TRAFFIC at _____ <u>twelve thousand</u> dollars _____ <u>zero</u> cents	\$ <u>12,000.00</u>	\$ <u>12,000.00</u>
3	20 / LF	REMOVAL OF FENCE, ALL TYPES at _____ <u>ten</u> dollars _____ <u>zero</u> cents	\$ <u>10.00</u>	\$ <u>200.00</u>
4	100 / CY	REMOVAL OF OBSTRUCTIONS at _____ <u>ten</u> dollars _____ <u>zero</u> cents	\$ <u>10.00</u>	\$ <u>1,000.00</u>
5	1300 / LF	REMOVAL OF PIPE (ALL SIZES) at _____ <u>ten</u> dollars _____ <u>zero</u> cents	\$ <u>10.00</u>	\$ <u>13,000.00</u>

6	6 / EA	REMOVAL OF SEWER MANHOLE at eight hundred fifty dollars zero cents	\$ 850.00	\$ 5,100.00
7	2500 / SY	REMOVAL OF ASPHALT PAVEMENT (ALL THICKNESSES) at ten dollars zero cents	\$ 10.00	\$ 25,000.00
8	460 / SY	REMOVAL OF CONCRETE PAVEMENT (ALL THICKNESSES) at ten dollars zero cents	\$ 10.00	\$ 4,600.00
9	1870 / LF	REMOVAL OF CONCRETE CURB (ALL TYPES) at ten dollars zero cents	\$ 10.00	\$ 18,700.00
10	10 / CY	FLOWABLE FILL at three hundred nineteen dollars sixty cents	\$ 319.60	\$ 3,196.00

11	500 / CY	SELECT BEDDING MATERIAL (PM) at _____ dollars _____ cents	\$ <u>17.08</u>	\$ <u>8,540.00</u>
12	500 / CY	SELECT FOUNDATION MATERIAL (PM) at _____ dollars _____ cents	\$ <u>123.90</u>	\$ <u>61,950.00</u>
13	4550 / CY	UNCLASSIFIED EXCAVATION (PM) at _____ dollars _____ cents	\$ <u>10.00</u>	\$ <u>45,500.00</u>
14	1000 / CY	EXCESS EXCAVATION (PM) at _____ dollars _____ cents	\$ <u>10.00</u>	\$ <u>10,000.00</u>
15	1000 / CY	BORROW EXCAVATION (PM) (AH) CLASS B3 at _____ dollars _____ cents	\$ <u>17.08</u>	\$ <u>17,080.00</u>
16	100 / SY	EROSION CONTROL MAT at _____ dollars _____ cents	\$ <u>4.76</u>	\$ <u>476.00</u>

17	5000 / SY	SEEDING (PM) at _____ _____ <u>three</u> dollars _____ <u>sixty six</u> cents	\$ <u>3.66</u>	\$ <u>18,300.00</u>
18	5000 / SY	SODDING (PM) at _____ _____ <u>seven</u> dollars _____ <u>thirty two</u> cents	\$ <u>7.32</u>	\$ <u>36,600.00</u>
19	2000 / LF	TEMPORARY SILT FENCE at _____ _____ <u>four</u> dollars _____ <u>sixty five</u> cents	\$ <u>4.65</u>	\$ <u>9,300.00</u>
20	400 / LF	TEMPORARY STRAW WATTLES at _____ _____ <u>four</u> dollars _____ <u>eighty one</u> cents	\$ <u>4.81</u>	\$ <u>1,924.00</u>
21	50 / CY	SIZE II STABILIZER AGGREGATE (GRAVEL) (PM) at _____ <u>one hundred</u> <u>twenty three</u> dollars _____ <u>ninety</u> cents	\$ <u>123.90</u>	\$ <u>6,195.00</u>
22	510 / CY	"610" LIMESTONE (PM) at _____ <u>one hundred</u> <u>twenty three</u> dollars _____ <u>ninety</u> cents	\$ <u>123.90</u>	\$ <u>63,189.00</u>

23	2500 / SY	HOT BITUMINOUS PAVEMENT, 4" THICK BASE COURSE (TYPE 19mm) at <u>forty eight</u> dollars <u>seventy four</u> cents	\$ <u>48.74</u>	\$ <u>121,850.00</u>
24	2500 / SY	HOT BITUMINOUS PAVEMENT, 2" THICK SURFACE COURSE (TYPE 9.5mm) at <u>twenty five</u> dollars <u>thirty two</u> cents	\$ <u>25.32</u>	\$ <u>63,300.00</u>
25	460 / SY	PLAIN CEMENT CONCRETE PAVEMENT, 6" THICK at <u>one hundred fifteen</u> dollars <u>ninety</u> cents	\$ <u>115.90</u>	\$ <u>53,314.00</u>
26	1870 / LF	CONCRETE CURB at <u>nineteen</u> dollars <u>fifty two</u> cents	\$ <u>19.52</u>	\$ <u>36,502.40</u>
27	2 / EA	4' DIAMETER PRECAST CONCRETE MANHOLE (0'-4') at <u>three thousand four hundred ninety three</u> dollars <u>sixty eight</u> cents	\$ <u>3,493.68</u>	\$ <u>6,987.36</u>

28	4 / EA	4' DIAMETER PRECAST CONCRETE MANHOLE (4'-6') at <u>three thousand</u> <u>nine hundred</u> <u>thirteen</u> dollars <u>thirty six</u> cents	\$ <u>3,913.36</u>	\$ <u>15,653.44</u>
29	2 / EA	4' DIAMETER PRECAST CONCRETE MANHOLE (6'-8') at <u>four thousand</u> <u>three hundred</u> <u>thirty seven</u> dollars <u>ninety two</u> cents	\$ <u>4,337.92</u>	\$ <u>8,675.84</u>
30	1050 / LF	GRAVITY SANITARY SEWER SERVICE (ALL SIZES) at <u>twenty two</u> dollars <u>sixty six</u> cents	\$ <u>22.66</u>	\$ <u>23,793.00</u>
31	10 / EA	LOW PRESSURE SANITARY SEWER SERVICE (ALL SIZES) at <u>one thousand</u> <u>three hundred</u> <u>forty six</u> dollars <u>seventy</u> cents	\$ <u>1,346.70</u>	\$ <u>13,467.00</u>
32	1910 / LF	8" PVC SDR-26 SANITARY SEWER MAIN at <u>forty one</u> dollars <u>thirty two</u> cents	\$ <u>41.32</u>	\$ <u>78,921.20</u>

33	10 / EA	RESIDENTIAL WATER SERVICE (ALL SIZES) at one thousand six hundred ninety six dollars eleven cents	\$ 1,696.11	\$ 16,961.10
34	20 / LF	15" RCP STORM PIPE at forty six dollars seventeen cents	\$ 46.17	\$ 923.40
35	20 / LF	18" RCP STORM PIPE at fifty three dollars ninety cents	\$ 53.90	\$ 1,078.00
36	40 / LF	CHAIN LINK FENCE at thirty dollars twenty cents	\$ 30.20	\$ 1,208.00
37	20 / LF	BLACK VINYL COATED CHAIN LINK at forty four dollars fifty three cents	\$ 44.53	\$ 890.60

ALTERNATE NO.2 BID TOTAL: \$ 808,375.34

(IN WORDS) eight hundred and eight thousand,
three hundred seventy five DOLLARS
thirty four CENTS

ALTERNATE NO.3 - BID SCHEDULE

<u>ITEM NO.</u>	<u>QTY / UNIT</u>	<u>DESCRIPTION</u>	<u>UNIT \$</u>	<u>TOTAL EXT.</u>
1	1 / LS	PROJECT VIDEO at <u>three thousand</u> _____ dollars <u>zero</u> cents	\$ <u>3,000.00</u>	\$ <u>3,000.00</u>
2	1 / LS	MAINTENANCE OF TRAFFIC at <u>twelve thousand</u> _____ dollars <u>zero</u> cents	\$ <u>12,000.00</u>	\$ <u>12,000.00</u>
3	260 / LF	REMOVAL OF FENCE, ALL TYPES at _____ <u>ten</u> dollars _____ cents	\$ <u>10.00</u>	\$ <u>2,600.00</u>
4	100 / CY	REMOVAL OF OBSTRUCTIONS at _____ dollars <u>zero</u> cents	\$ <u>10.00</u>	\$ <u>1,000.00</u>
5	900 / LF	REMOVAL OF PIPE (ALL SIZES) at _____ <u>ten</u> dollars <u>zero</u> cents	\$ <u>10.00</u>	\$ <u>9,000.00</u>

6	5 / EA	REMOVAL OF SEWER MANHOLE at <u>eight hundred</u> <u>fifty</u> dollars <u>zero</u> cents	\$ <u>850.00</u>	\$ <u>4,250.00</u>
7	1570 / SY	REMOVAL OF ASPHALT PAVEMENT (ALL THICKNESSES) at <u>ten</u> dollars <u>zero</u> cents	\$ <u>10.00</u>	\$ <u>15,700.00</u>
8	270 / SY	REMOVAL OF CONCRETE PAVEMENT (ALL THICKNESSES) at <u>ten</u> dollars <u>zero</u> cents	\$ <u>10.00</u>	\$ <u>2,700.00</u>
9	1205 / LF	REMOVAL OF CONCRETE CURB (ALL TYPES) at <u>ten</u> dollars <u>zero</u> cents	\$ <u>10.00</u>	\$ <u>12,050.00</u>
10	300 / CY	SELECT BEDDING MATERIAL (PM) at <u>seventeen</u> dollars 17 <u>eight</u> cents	\$ <u>17.08</u>	\$ <u>5,124.00</u>

11	300 / CY	SELECT FOUNDATION MATERIAL (PM) at one hundred twenty three dollars ninety cents	\$ 123.90	\$ 37,170.00
12	3350 / CY	UNCLASSIFIED EXCAVATION (PM) at ten dollars zero cents	\$ 16.00	\$ 33,500.00
13	750 / CY	EXCESS EXCAVATION (PM) at ten dollars zero cents	\$ 10.00	\$ 7,500.00
14	750 / CY	BORROW EXCAVATION (PM) (AH) CLASS B3 at seventeen dollars eight cents	\$ 17.08	\$ 12,810.00
15	100 / SY	EROSION CONTROL MAT at four dollars seventy six cents	\$ 4.76	\$ 476.00
16	5000 / SY	SEEDING (PM) at three dollars sixty six cents	\$ 3.66	\$ 18,300.00

17	5000 / SY	SODDING (PM) at _____ dollars _____ cents	\$ <u>7.32</u>	\$ <u>36,600.00</u>
18	1500 / LF	TEMPORARY SILT FENCE at _____ dollars _____ cents	\$ <u>4.65</u>	\$ <u>6,975.00</u>
19	300 / LF	TEMPORARY STRAW WATTLES at _____ dollars _____ cents	\$ <u>4.81</u>	\$ <u>1,443.00</u>
20	50 / CY	SIZE II STABILIZER AGGREGATE (GRAVEL) (PM) at _____ dollars _____ cents	\$ <u>123.90</u>	\$ <u>6,195.00</u>
21	400 / CY	"610" LIMESTONE (PM) at _____ dollars _____ cents	\$ <u>123.90</u>	\$ <u>49,560.00</u>
22	1570 / SY	HOT BITUMINOUS PAVEMENT, 4" THICK BASE COURSE (TYPE 19mm) at _____ dollars _____ cents	\$ <u>48.74</u>	\$ <u>76,521.80</u>

23	1570 / SY	HOT BITUMINOUS PAVEMENT, 2" THICK SURFACE COURSE (TYPE 9.5mm) at <hr/> twenty five dollars <hr/> thirty two cents	\$ <u>25.32</u>	\$ <u>39,752.40</u>
24	270 / SY	PLAIN CEMENT CONCRETE PAVEMENT, 6" THICK at one hundred fifteen dollars <hr/> ninety cents	\$ <u>115.90</u>	\$ <u>31,293.00</u>
25	1205 / LF	CONCRETE CURB at <hr/> nineteen dollars <hr/> fifty two cents	\$ <u>19.52</u>	\$ <u>23,521.60</u>
26	5 / EA	4' DIAMETER PRECAST CONCRETE MANHOLE (4'-6') at three thousand nine hundred thirteen dollars <hr/> thirty six cents	\$ <u>3,913.36</u>	\$ <u>19,556.80</u>
27	1 / EA	4' DIAMETER PRECAST CONCRETE MANHOLE (6'-8') at four thousand three hundred thirty seven dollars <hr/> ninety two cents	\$ <u>4,337.92</u>	\$ <u>4,337.92</u>

28	650 / LF	GRAVITY SANITARY SEWER SERVICE (ALL SIZES) at _____ dollars _____ cents	\$ <u>22.66</u>	\$ <u>14,729.00</u>
29	5 / EA	LOW PRESSURE SANITARY SEWER SERVICE (ALL SIZES) at _____ dollars _____ cents	\$ <u>1,346.70</u>	\$ <u>6,733.50</u>
30	800 / LF	8" PVC SDR-26 SANITARY SEWER MAIN at _____ dollars _____ cents	\$ <u>4.32</u>	\$ <u>33,856.00</u>
31	600 / LF	12" PVC SDR-26 SANITARY SEWER MAIN at _____ dollars _____ cents	\$ <u>65.49</u>	\$ <u>39,294.00</u>
32	5 / EA	RESIDENTIAL WATER SERVICE (ALL SIZES) at _____ dollars _____ cents	\$ <u>1,696.11</u>	\$ <u>8,480.55</u>

33	20 / LF	15" RCP STORM PIPE at _____ <u>forty six</u> dollars <u>seventeen</u> cents	\$ <u>46.17</u>	\$ <u>923.40</u>
34	20 / LF	18" RCP STORM PIPE at _____ <u>fifty three</u> dollars <u>ninety</u> cents	\$ <u>53.90</u>	\$ <u>1,078.00</u>
35	260 / LF	CHAIN LINK FENCE at _____ <u>thirty</u> dollars <u>twenty</u> cents	\$ <u>30.20</u>	\$ <u>7,852.00</u>

ALTERNATE NO.3 BID TOTAL: \$ 585,892.97

(IN WORDS) five hundred eighty five thousand,
eight hundred ninety two. DOLLARS
ninety seven CENTS

ALTERNATE NO.4 - BID SCHEDULE

<u>ITEM NO.</u>	<u>QTY / UNIT</u>	<u>DESCRIPTION</u>	<u>UNIT \$</u>	<u>TOTAL EXT.</u>
1	1 / LS	PROJECT VIDEO at <u>three thousand</u> dollars <u>zero</u> cents	\$ <u>3,000.00</u>	\$ <u>3,000.00</u>
2	1 / LS	MAINTENANCE OF TRAFFIC at <u>twelve thousand</u> dollars <u>zero</u> cents	\$ <u>12,000.00</u>	\$ <u>12,000.00</u>
3	100 / LF	REMOVAL OF FENCE, ALL TYPES at <u>ten</u> dollars <u>zero</u> cents	\$ <u>10.00</u>	\$ <u>1,000.00</u>
4	100 / CY	REMOVAL OF OBSTRUCTIONS at <u>ten</u> dollars <u>zero</u> cents	\$ <u>10.00</u>	\$ <u>1,000.00</u>
5	900 / LF	REMOVAL OF PIPE (ALL SIZES) at <u>ten</u> dollars <u>zero</u> cents	\$ <u>10.00</u>	\$ <u>9,000.00</u>

6	2 / EA	REMOVAL OF SEWER MANHOLE at eight hundred fifty dollars zero cents	\$ 850.00	\$ 1,700.00
7	1280 / SY	REMOVAL OF ASPHALT PAVEMENT (ALL THICKNESSES) at ten dollars zero cents	\$ 10.00	\$ 12,800.00
8	270 / SY	REMOVAL OF CONCRETE PAVEMENT (ALL THICKNESSES) at ten dollars zero cents	\$ 10.00	\$ 2,700.00
9	900 / LF	REMOVAL OF CONCRETE CURB (ALL TYPES) at ten dollars zero cents	\$ 10.00	\$ 9,000.00
10	300 / CY	SELECT BEDDING MATERIAL (PM) at sixteen dollars eighty cents	\$ 16.80	\$ 5,040.00

11	300 / CY	SELECT FOUNDATION MATERIAL (PM) at <u>one hundred</u> <u>twenty two</u> dollars <u>zero</u> cents	\$ <u>122.00</u>	\$ <u>36,600.00</u>
12	2150 / CY	UNCLASSIFIED EXCAVATION (PM) at <u>ten</u> dollars <u>zero</u> cents	\$ <u>10.00</u>	\$ <u>21,500.00</u>
13	500 / CY	EXCESS EXCAVATION (PM) at <u>ten</u> dollars <u>zero</u> cents	\$ <u>10.00</u>	\$ <u>5,000.00</u>
14	500 / CY	BORROW EXCAVATION (PM) (AH) CLASS B3 at <u>sixteen</u> dollars <u>eighty</u> cents	\$ <u>16.80</u>	\$ <u>8,400.00</u>
15	100 / SY	EROSION CONTROL MAT at <u>four</u> dollars <u>seventy three</u> cents	\$ <u>4.73</u>	\$ <u>473.00</u>
16	5000 / SY	SEEDING (PM) at <u>three</u> dollars <u>fourty five</u> cents	\$ <u>3.45</u>	\$ <u>17,250.00</u>

17	5000 / SY	SODDING (PM) at SIX dollars ninety cents	\$ 6.90	\$ 34,500.00
18	1500 / LF	TEMPORARY SILT FENCE at four dollars sixty two cents	\$ 4.62	\$ 6,930.00
19	200 / LF	TEMPORARY STRAW WATTLES at four dollars seventy six cents	\$ 4.76	\$ 952.00
20	50 / CY	SIZE II STABILIZER AGGREGATE (GRAVEL) (PM) at one hundred twenty two dollars zero cents	\$ 122.00	\$ 6,100.00
21	400 / CY	"610" LIMESTONE (PM) at one hundred twenty two dollars zero cents	\$ 122.00	\$ 48,800.00
22	1280 / SY	HOT BITUMINOUS PAVEMENT, 4" THICK BASE COURSE (TYPE 19mm) at twenty four dollars ninety cents	\$ 24.90	\$ 61,363.20

23	1280 / SY	HOT BITUMINOUS PAVEMENT, 2" THICK SURFACE COURSE (TYPE 9.5mm) at _____ dollars _____ cents twenty four ninety	\$ 24.90	\$ 31,872.00
24	270 / SY	PLAIN CEMENT CONCRETE PAVEMENT, 6" THICK at _____ dollars _____ cents One hundred fourteen zero	\$ 114.00	\$ 30,780.00
25	900 / LF	CONCRETE CURB at _____ dollars _____ cents nineteen twenty	\$ 19.20	\$ 17,280.00
26	1 / EA	4' DIAMETER PRECAST CONCRETE MANHOLE (0'-4') at _____ dollars _____ cents two thousand nine hundred seventy two eighty	\$ 2,972.80	\$ 2,972.80
27	2 / EA	4' DIAMETER PRECAST CONCRETE MANHOLE (4'-6') at _____ dollars _____ cents three thousand three hundred eighty five sixty	\$ 3,385.60	\$ 6,771.20

28	600 / LF	GRAVITY SANITARY SEWER SERVICE (ALL SIZES) at _____ <u>Twenty two</u> dollars _____ <u>forty nine</u> cents	\$ <u>22.49</u>	\$ <u>13,494.00</u>
29	4 / EA	LOW PRESSURE SANITARY SEWER SERVICE (ALL SIZES) at _____ <u>one thousand</u> _____ <u>three hundred</u> _____ <u>thirty two</u> dollars _____ <u>zero</u> cents	\$ <u>1,332.00</u>	\$ <u>5,328.00</u>
30	900 / LF	8" PVC SDR-26 SANITARY SEWER MAIN at _____ <u>forty one</u> dollars _____ <u>two</u> cents	\$ <u>41.02</u>	\$ <u>36,918.00</u>
31	5 / EA	RESIDENTIAL WATER SERVICE (ALL SIZES) at _____ <u>one thousand</u> _____ <u>six hundred</u> _____ <u>seventy eight</u> dollars _____ <u>fourteen</u> cents	\$ <u>1,678.14</u>	\$ <u>8,390.70</u>
32	20 / LF	15" RCP STORM PIPE at _____ <u>forty five</u> dollars _____ <u>seventy four</u> cents	\$ <u>45.74</u>	\$ <u>914.80</u>
33	20 / LF	18" RCP STORM PIPE at _____ <u>fifty three</u> dollars _____ <u>thirty eight</u> cents	\$ <u>53.38</u>	\$ <u>1,067.60</u>

34	100 / LF	CHAIN LINK FENCE at _____ <u>Twenty nine</u> dollars _____ <u>Seventy</u> cents	\$ <u>29.70</u>	\$ <u>2,970.00</u>
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ALTERNATE NO.4 BID TOTAL: \$ 463,867.30

(IN WORDS) four hundred sixty three thousand
eight hundred sixty seven DOLLARS
thirty CENTS

I (Bidder) have examined and prepared the foregoing Bid(s) based on the information contained in the Project Manual provided with this bid. I have checked the same detail before submitting this Bid, and I have full authority to make such statements and submit this Bid on behalf of the company; and these statements are correct.

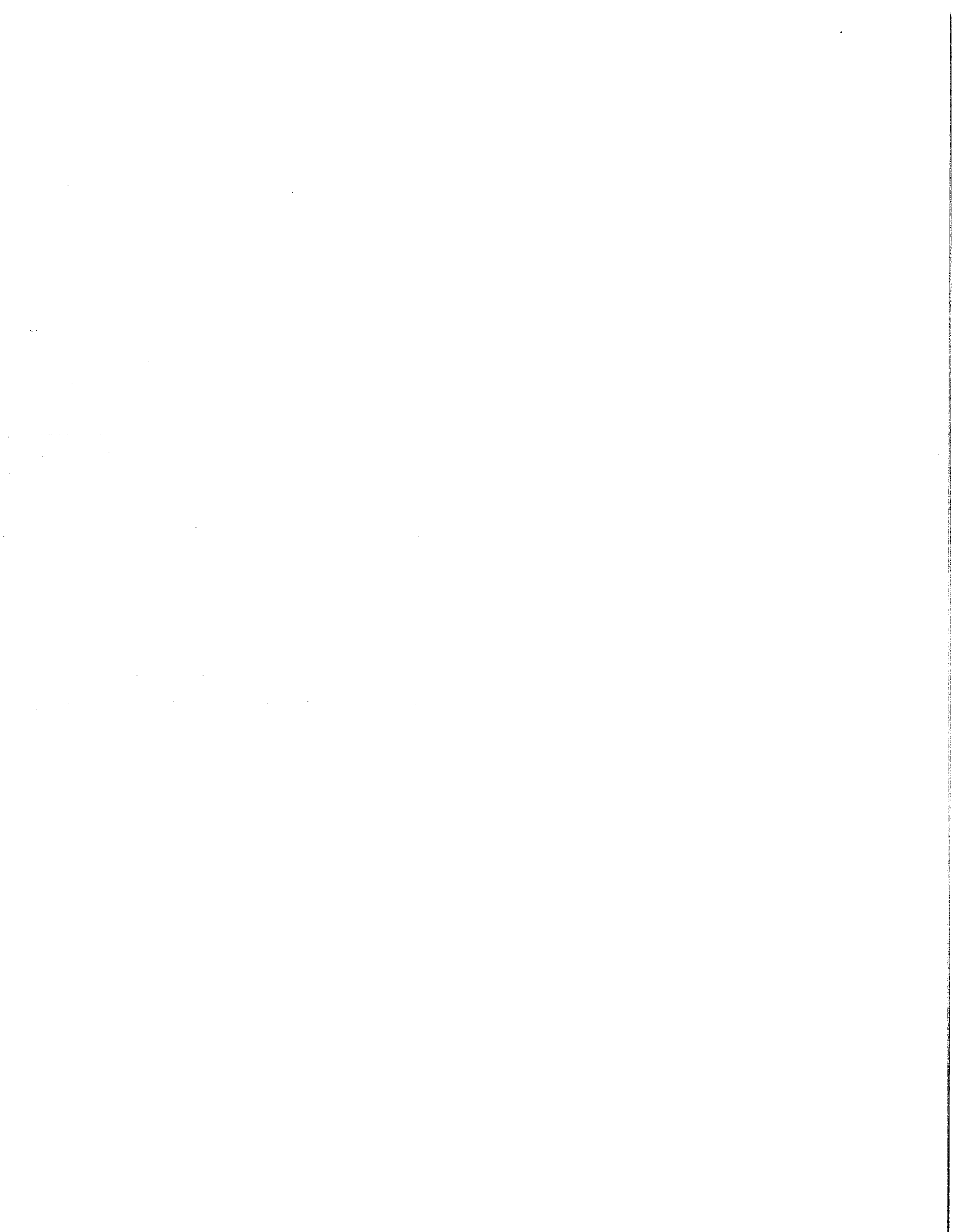
Name: Joseph R. Ruffes Jr
Title: Owner
Signature: Joseph R. Ruffes Jr

Notary Public in and for the
County of Harrison
State of Mississippi

(Notarial Seal)



My Commission Expires: 2/27/27



CORPORATE CERTIFICATE

(To be executed if BIDDER is a Corporation)

I, _____ certify that I am the Secretary of the Corporation named as CONTRACTOR in the foregoing Proposal; that _____ who signed said Proposal on behalf of the CONTRACTOR, was then _____ of said Corporation; that said Proposal was duly signed for and in behalf of said Corporation by authority of its governing body and is within the scope of its corporate powers.

Name:

Title:

Signature:

(CORPORATE SEAL)

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PARTNERSHIP CERTIFICATE

(To be executed if BIDDER is a Partnership)

STATE OF _____

COUNTY OF _____

On this _____ day of _____, 2023, before me personally appeared _____, known to be and known by me to be the person who executed the above instrument, who being by me first duly sworn, did depose and say that he is general partner in the firm of:

_____; That said firm consists of himself and _____; and that he executed the foregoing instrument for and on behalf of said firm for the uses and purposes stated herein.

Name: _____

Signature: _____

Notary Public in and for the
County of _____
State of _____

(Notarial Seal)

My Commission Expires: _____

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LIMITED LIABILITY COMPANY CERTIFICATE

(To be executed if BIDDER is a LLC)

I, the undersigned _____, hereby certify that I am the Manager of _____ (the "Company") or if the Company does not have a Manager, a Member of the Company with full power and authority to bind the Company; that _____ who executed the Proposal on behalf of the Company is _____ of the Company with full power and authority to execute same on behalf of the Company, and that the Proposal and the Contract, if awarded to the Company, are within the powers and authority of the Company.

Name: _____

Title: _____

Signature: _____

Name: _____

Signature: _____

Notary Public in and for the
County of _____
State of _____

(Notarial Seal)

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NON-COLLUSION AFFIDAVIT
(TO BE EXECUTED IN DUPLICATE)

STATE OF MISSISSIPPI
COUNTY OF

I, Joseph R Raffeo Jr
(name of person signing affidavit)

individually, and in my capacity as Owner
(title)

of Bottom 2 Top Construction
(name of firm, partnership, limited liability company, or corporation.)

being duly sworn, on oath do depose and say as follows:

(a) That Bottom 2 Top Construction Bidder on the Wastewater Facility Improvement Project for the West Jackson County Utility District has not either directly or indirectly entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with this contract; nor have any of its officers, partners, employees or principal owners.

(b) further, that neither said legal entity nor any of its directors, officers, partners, principal owners or managerial employees are currently debarred from bidding on public contracts by the State of Mississippi or any of its agencies; or by one or more of the other states or any of their agencies; or by the Federal Highway Administration.

Signature Joseph Raffeo Jr
Title Owner

(SEAL)



Sworn before me this 19 day of July, 2023.

My commission expires February 27, 2027 Notary Public

NOTE: FAILURE TO PROPERLY SIGN AND NOTARIZE THIS AFFIDAVIT WILL DISQUALIFY THE BID.

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NON-COLLUSION AFFIDAVIT
(TO BE EXECUTED IN DUPLICATE)

STATE OF MISSISSIPPI
COUNTY OF

I, Joseph R Raffer Jr
(name of person signing affidavit)

individually, and in my capacity as Owner
(title)

of Bottom 2 Top Construction
(name of firm, partnership, limited liability company, or corporation.)

being duly sworn, on oath do depose and say as follows:

(a) That Bottom 2 Top Construction, Bidder on the Wastewater Facility Improvement Project for West Jackson County Utility District, has not either directly or indirectly entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with this contract; nor have any of its officers, partners, employees or principal owners.

(b) further, that neither said legal entity nor any of its directors, officers, partners, principal owners or managerial employees are currently debarred from bidding on public contracts by the State of Mississippi or any of its agencies; or by one or more of the other states or any of their agencies; or by the Federal Highway Administration.

Signature Joseph R Raffer Jr

Title Owner

(SEAL)



Sworn before me this 19 day of July, 2023.

My commission expires February 27, 2027 Notary Public

NOTE: FAILURE TO PROPERLY SIGN AND NOTARIZE THIS AFFIDAVIT WILL DISQUALIFY THE BID.

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NON-COLLUSION AFFIDAVIT
(TO BE EXECUTED IN DUPLICATE)

STATE OF MISSISSIPPI
COUNTY OF

I, Joseph R Raffeo Jr
(name of person signing affidavit)

individually, and in my capacity as Owner
(title)

of Botton 2 Top Construction
(name of firm, partnership, limited liability company, or corporation.)

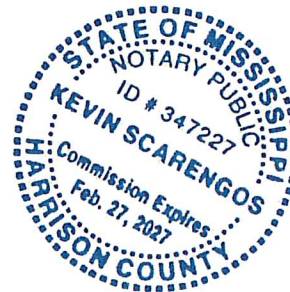
being duly sworn, on oath do depose and say as follows:

(a) That Botton 2 Top Construction, Bidder on the Wastewater Facility Improvement Project for West Jackson County Utility District, has not either directly or indirectly entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with this contract; nor have any of its officers, partners, employees or principal owners.

(b) further, that neither said legal entity nor any of its directors, officers, partners, principal owners or managerial employees are currently debarred from bidding on public contracts by the State of Mississippi or any of its agencies; or by one or more of the other states or any of their agencies; or by the Federal Highway Administration.

Signature Joseph R Raffeo Jr
Title Owner

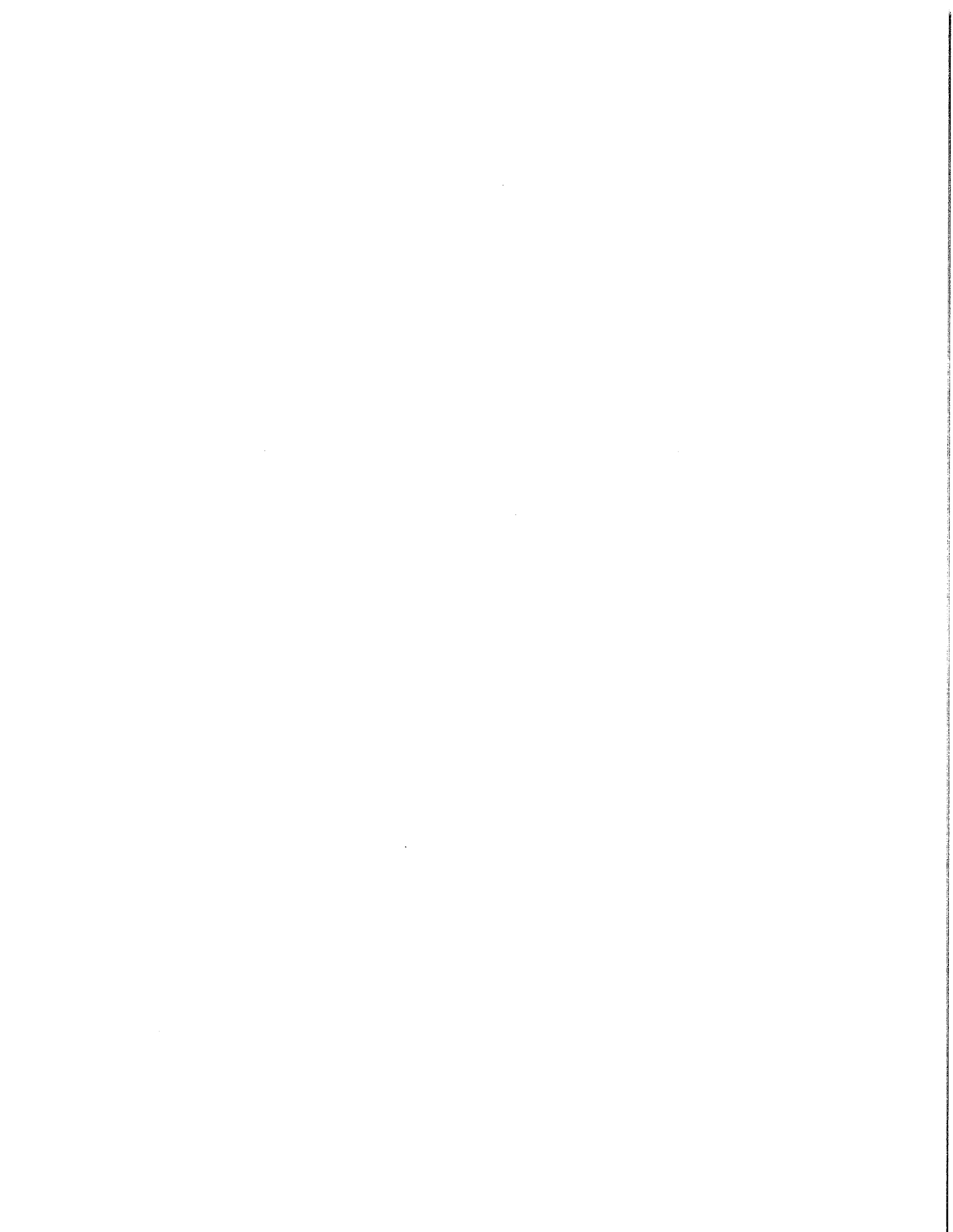
(SEAL)



Sworn before me this 19 day of July, 2023.

My commission expires February 27, 2027 Notary Public

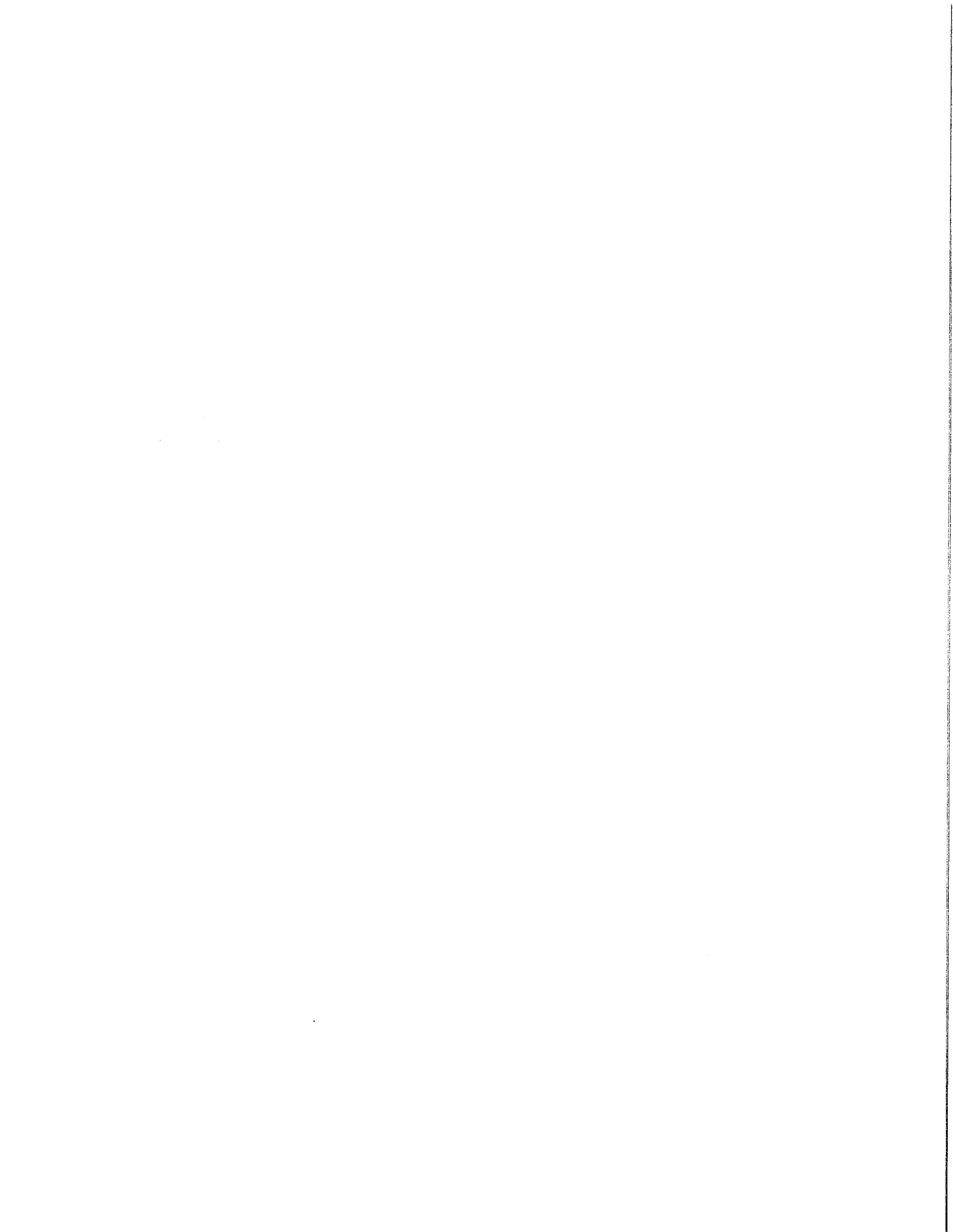
NOTE: FAILURE TO PROPERLY SIGN AND NOTARIZE THIS AFFIDAVIT WILL DISQUALIFY THE BID.



SECTION D

BID BOND

Machado Patano, P.L.L.C.
918 Howard Ave., Ste. F
Biloxi, Mississippi, 39530



BID BOND

KNOW ALL MEN BY THESE PRESENTS:

That Bottom 2 Top Construction LLC
(Name of Contractor)

16708 Highway 67, Biloxi, MS 39532
(Address of Contractor)

a Limited Liability Company hereinafter called "Principal", and
(Corporation, Partnership, Limited Liability Company or
Individual)

Old Republic Surety Company hereinafter called "Surety",
(Name of Surety)

are held and firmly bound unto the West Jackson County Utility District, hereinafter called
"OWNER" in the penal sum of 5% of Total Bid, for the payment of which sum well and truly to
be made, we bind ourselves, successors, and assigns, jointly and severally, firmly by these presents.
Signed, this the 19th day of July, 2023. The Condition of the above obligation is such
that whereas the Principal has submitted to the West Jackson County Utility District a certain BID,
attached hereto and hereby made a part thereof to enter into a contract in writing, for the
construction of:

Wastewater Facility Improvement Project – Phase 3

NOW, THEREFORE,

- (a) If said BID shall be rejected, or,
- (b) If said BID shall be accepted and the Principal shall execute and deliver a contract on the Contract form as attached hereto (properly completed in accordance with said BID) and shall furnish BONDS for his faithful performance of said contract, and for the payment of all persons performing labor or furnishing materials in connection herewith, and shall in all other respects perform the agreement created by the acceptance of said BID, then this obligation shall be void, otherwise the same shall remain in effect; it being expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall, in no event, exceed the penal amount of this obligation as herein stated.

The Surety, for value received, hereby stipulates and agrees that the obligations of said Surety and its BOND shall be in no way impaired or affected by any extension of the time within which the OWNER may accept such BID; and said Surety does hereby waive notice of any such extension.

IN WITNESS WHEREOF, the Principal and the Surety have hereunto set their hands and seals, and such of them as are corporations have caused their corporate seals to be hereto affixed and these present to be signed by their officers, the day and year first set forth above.

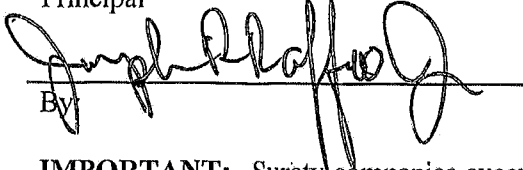
Bottom 2 Top Construction LLC

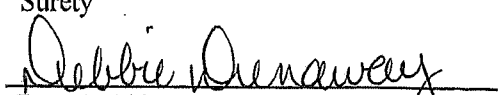
(L.S.)

Old Republic Surety Company

Principal

Surety


By: _____


By: Debbie Dunaway, Attorney-in-Fact
Mississippi Resident Agent

IMPORTANT: Surety companies executing BONDS must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the state where the project is located.



POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That OLD REPUBLIC SURETY COMPANY, a Wisconsin stock insurance corporation, does make, constitute and appoint: TROY WAGENER, JIM E. BRASHIER, TEB JONES, DAVID FORTENBERRY, MARY NORVAL, KIM BARHUM, F. ROSS BELL, KATHLEEN B. SCARBOROUGH, DEWEY B. MASON, SUSAN M. SKRMETTA, JOSEPH R. BEATTIE, LISA R. BUTLER, PATRICK T. MASON, CHRIS BOONE, SHARON TUTEN, CHARLOTTE A. RAMSEY, LESSIE R. ANDERSON, DEBBIE DUNAWAY, JAMES ELEY BRASHIER, TENORA POSEY of GULFPORT, MS

its true and lawful Attorney(s)-in-Fact, with full power and authority for and on behalf of the company as surety, to execute and deliver and affix the seal of the company thereto (if a seal is required), bonds, undertakings, recognizances or other written obligations in the nature thereof, (other than bail bonds, bank depository bonds, mortgage deficiency bonds, mortgage guaranty bonds, guarantees of installment paper and note guaranty bonds, self-insurance workers compensation bonds guaranteeing payment of benefits, or black lung bonds), as follows:

ALL WRITTEN INSTRUMENTS

and to bind OLD REPUBLIC SURETY COMPANY thereby, and all of the acts of said Attorneys-in-Fact, pursuant to these presents, are ratified and confirmed. This appointment is made under and by authority of the board of directors at a special meeting held on February 18, 1982.

This Power of Attorney is signed and sealed by facsimile under and by the authority of the following resolutions adopted by the board of directors of the OLD REPUBLIC SURETY COMPANY on February 18, 1982.

RESOLVED that, the president, any vice-president or assistant vice president, in conjunction with the secretary or any assistant secretary, may appoint attorneys-in-fact or agents with authority as defined or limited in the instrument evidencing the appointment in each case, for and on behalf of the company to execute and deliver and affix the seal of the company to bonds, undertakings, recognizances, and suretyship obligations of all kinds; and said officers may remove any such attorney-in-fact or agent and revoke any Power of Attorney previously granted to such person.

RESOLVED FURTHER, that any bond, undertaking, recognizance, or suretyship obligation shall be valid and binding upon the Company

- (i) when signed by the president, any vice president or assistant vice president, and attested and sealed (if a seal be required) by any secretary or assistant secretary; or
(ii) when signed by the president, any vice president or assistant vice president, secretary or assistant secretary, and countersigned and sealed (if a seal be required) by a duly authorized attorney-in-fact or agent; or
(iii) when duly executed and sealed (if a seal be required) by one or more attorneys-in-fact or agents pursuant to and within the limits of the authority evidenced by the Power of Attorney issued by the company to such person or persons.

RESOLVED FURTHER that the signature of any authorized officer and the seal of the company may be affixed by facsimile to any Power of Attorney or certification thereof authorizing the execution and delivery of any bond, undertaking, recognizance, or other suretyship obligations of the company; and such signature and seal when so used shall have the same force and effect as though manually affixed.

IN WITNESS WHEREOF, OLD REPUBLIC SURETY COMPANY has caused these presents to be signed by its proper officer, and its corporate seal to be affixed this 24th day of February 2023.

Karen J. Haffner
Assistant Secretary



OLD REPUBLIC SURETY COMPANY

Alan Pavlic
President

STATE OF WISCONSIN, COUNTY OF WAUKESHA - SS

On this 24th day of February, 2023, personally came before me, Alan Pavlic and Karen J Haffner, to me known to be the individuals and officers of the OLD REPUBLIC SURETY COMPANY who executed the above instrument, and they each acknowledged the execution of the same, and being by me duly sworn, did severally depose and say: that they are the said officers of the corporation aforesaid, and that the seal affixed to the above instrument is the seal of the corporation, and that said corporate seal and their signatures as such officers were duly affixed and subscribed to the said instrument by the authority of the board of directors of said corporation.



Kathryn R. Pearson
Notary Public

My Commission Expires: September 28, 2026

(Expiration of notary's commission does not invalidate this instrument)

CERTIFICATE

I, the undersigned, assistant secretary of the OLD REPUBLIC SURETY COMPANY, a Wisconsin corporation, CERTIFY that the foregoing and attached Power of Attorney remains in full force and has not been revoked; and furthermore, that the Resolutions of the board of directors set forth in the Power of Attorney, are now in force.



87-0829

Signed and sealed at the City of Brookfield, WI this 19th day of July, 2023.

Karen J. Haffner
Assistant Secretary

ORSC 22262 (3-06)

CADENCE INSURANCE, INC.

ADDENDUM 1
WEST JACKSON COUNTY UTILITY DISTRICT WASTEWATER FACILITY
IMPROVEMENT – PHASE 3

Date: Friday June 30, 2022

Project #: 0225.22.007

Project Name: Wastewater Facility Improvement – Phase 3
7200 McCann Road
Biloxi, MS 39532

Owner: West Jackson County Utility District
7200 McCann Road
Biloxi, MS 39532

To: All Prospective Bidders

From: Jason Polite, P.E.

Bidders are hereby informed that the Project Manual and Drawings are modified as follows:

This Addendum forms a part of the Contract Documents and modifies the original Bidding Documents with a submittal date of June 5, 2023. It is the General Contractor's responsibility for providing proper acknowledgement and receipt of this Addendum in the Bid Forms/Document.

Attachments to this Addendum: As described herein.

Total Number of Pages in this Addendum: 61 Pages

PART A: GENERAL ADDENDUM, BIDDING, AND/OR PROJECT NOTES:

A1. None this addendum.

PART B: CONTRACTOR QUESTIONS WITH RESPONSES (Responses are in RED)

Note: If you do not see your question answered, then we are still researching or working on a solution.

B1. What exactly is getting the epoxy liner? Are there manholes to be lined?? **There will be some portions of the wetwell that will be epoxy coated. No the manholes will not be lined.**

PART C: SPECIFICATION CLARIFICATIONS, REVISIONS, AND ADDITIONS:

C1. Specification Section Bid Form: Replace this section in its entirety with the attached.

PART D: DRAWING CLARIFICATIONS, REVISIONS, AND ADDITIONS:

- D1. C004: Replace this sheet in its entirety with the attached. Revisions have been clouded.
- D2. C400: Replace this sheet in its entirety with the attached. Revisions have been clouded.
- D3. C501: Replace this sheet in its entirety with the attached. Revisions have been clouded.
- D4. C504: Replace this sheet in its entirety with the attached. Revisions have been clouded.
- D5. C505: Replace this sheet in its entirety with the attached. Revisions have been clouded.

PART E: APPROVED PRODUCT/VENDOR EQUALS

- E1. None this addendum.

END OF ADDENDUM 1

SUMMARY OF QUANTITIES (BASE BID)

ITEM NO.	DESCRIPTION	UNIT	TOTAL QTY	AS-BUILT QTY	ITEM NO.	DESCRIPTION	UNIT	TOTAL QTY	AS-BUILT QTY
1	MOBILIZATION	LS	1		29	HOT BITUMINOUS PAVEMENT, 2" THICK SURFACE COURSE (TYPE 3.5mm)	SY	5200	
2	PROJECT VIDEO	LS	1		30	6" DIA. PRECAST CONCRETE EXHAUST, 6" THICK	LF	1050	
3	MAINTENANCE OF TRAFFIC	LS	1		31	CONCRETE CURB	LF	3100	
4	CLEANING AND GRUBBING	ALOE	2		32	NEW PORTLAND DRIVE LIFT STATION	LS	1	
5	REMOVAL OF FENCE, ALL TYPES	LF	300		33	4" DIA. PRECAST CONCRETE MANHOLE (0'-4")	EA	2	
6	REMOVAL OF OBSTRUCTIONS	CY	1000		34	4" DIA. PRECAST CONCRETE MANHOLE (4'-8")	EA	3	
7	REMOVAL OF EXISTING LIFT STATION - PORTLAND	LS	1		35	4" DIA. PRECAST CONCRETE MANHOLE (6'-8")	EA	12	
8	REMOVAL OF EXISTING LIFT STATION - BROAD PLATE	LS	1		36	4" DIA. PRECAST CONCRETE MANHOLE (8'-0")	EA	13	
9	REMOVAL OF EXISTING LIFT STATION - BROAD PLATE	LS	1		37	4" DIA. PRECAST CONCRETE MANHOLE (10'-2")	EA	4	
10	REMOVAL OF FENCE (ALL TYPES)	LF	3500		38	4" DIA. PRECAST CONCRETE MANHOLE (12'-4")	EA	2	
11	REMOVAL OF SEWER MANHOLE	EA	7		39	4" DIA. PRECAST CONCRETE MANHOLE (14'-6")	EA	2	
12	REMOVAL OF ASPHALT PAVEMENT (ALL THICKNESSES)	SY	5200		40	100% POLY LINER	LF	1000	
13	REMOVAL OF CONCRETE PAVEMENT (ALL THICKNESSES)	SY	1050		41	GRAVITY SANITARY SEWER SERVICE (ALL SIZES)	EA	4500	
14	REMOVAL OF CONCRETE CURB (ALL TYPES)	LF	3100		42	LOW PRESSURE SANITARY SEWER SERVICE (ALL SIZES)	EA	3800	
15	FLOWABLE FILL	CY	50		43	12" PVC SDR-26 SANITARY SEWER MAIN	LF	40	
16	SELECT BEDDING MATERIAL (PM)	CY	1000		44	12" PVC SDR-26 SANITARY SEWER MAIN	LF	40	
17	SELECT FOUNDATION MATERIAL (PM)	CY	1000		45	24" DUCTILE IRON PIPE SLEEVE	EA	1	
18	DECLASSIFIED EXCAVATION (PM)	CY	20000		46	10" GATE VALVE	EA	1	
19	EXCESS EXCAVATION (PM) (M4) CLASS B3	CY	5000		47	10" PVC SEWER FORCE MAIN	LF	880	
20	EXCESS EXCAVATION (PM) (M4) CLASS B3	CY	5000		48	10" TAPPING SLEEVE AND VALVE	EA	1	
21	EROSION CONTROL MAT	SY	1000		49	RESIDENTIAL WATER SERVICE (ALL SIZES)	EA	20	
22	SEEDING (PM)	SY	10000		50	12" RCP STORM PIPE	LF	20	
23	TEMPORARY SILT FENCE	LF	10000		51	15" RCP STORM PIPE	LF	20	
24	TEMPORARY STRAW BATTLES	LF	10000		52	18" RCP STORM PIPE	LF	20	
25	SIZE 1/2" STABILIZER AGGREGATE (GRAVEL) (PM)	CY	2000		53	CHAIN LINK FENCE	LF	100	
26	SIZE 1/2" STABILIZER AGGREGATE (GRAVEL) (PM)	CY	2000		54	WOOD FENCE	LF	200	
27	SIZE 1/2" STABILIZER AGGREGATE (GRAVEL) (PM)	CY	1000		55	2" PVC WATER MAIN (INCLUDING FITTINGS, VALVES, ETC.)	LF	300	
28	HOT BITUMINOUS PAVEMENT, 4" THICK BASE COURSE (TYPE 3.5mm)	SY	5200						


REVISIONS

NO.	DATE	REVISION / SUBMITTAL
1	06/29/23	ISSUED FOR CONSTRUCTION
2	06/29/23	REVISION

**WASTEWATER FACILITY IMPROVEMENT
(PHASE 3)**

**WEST JACKSON COUNTY
UTILITY DISTRICT**

7200 MCCANN ROAD
BILOXI, MS 39532



DESIGN GROUP

Designed by Base
 718 Howard Ave Suite F
 Biloxi, Mississippi 39530
 P: 601.373.1193
 www.designgroup.com

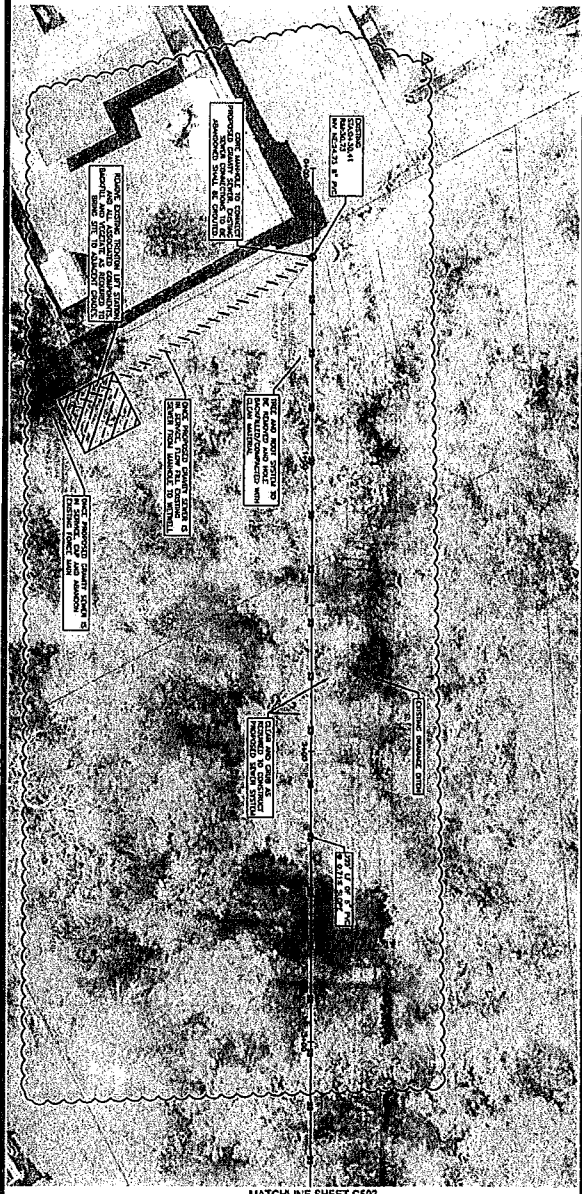
David J. Macdonald, PE
 General W. Spivey, PE
 Christopher A. Smith, JEA

SUMMARY OF QUANTITIES

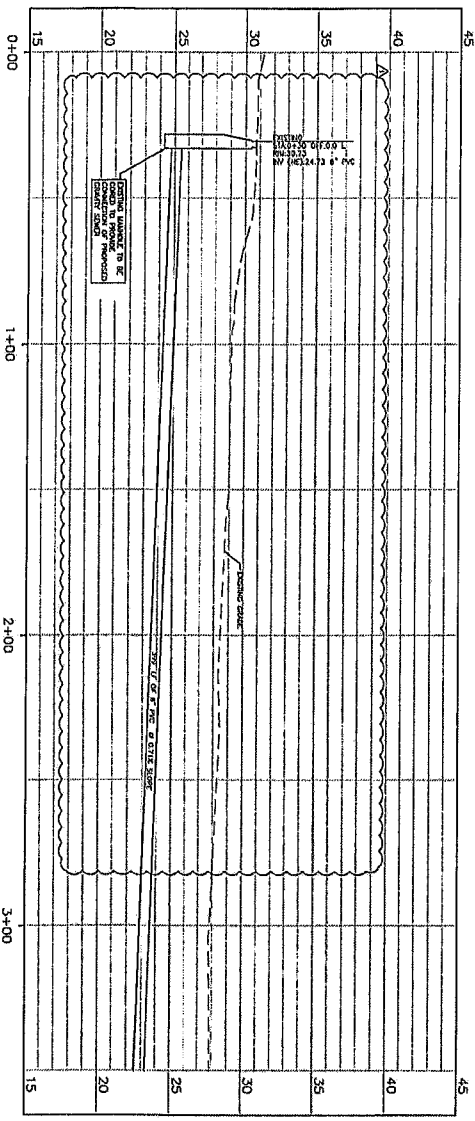
BASE BID

C004

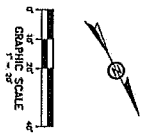
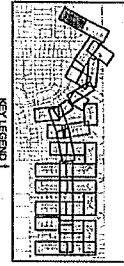
DATE: 06/29/23
 DRAWING NO: 0226.02.007
 PROJECT: WEST JACKSON COUNTY UTILITY DISTRICT WASTEWATER FACILITY IMPROVEMENT (PHASE 3)



MATCHLINE SHEET C502

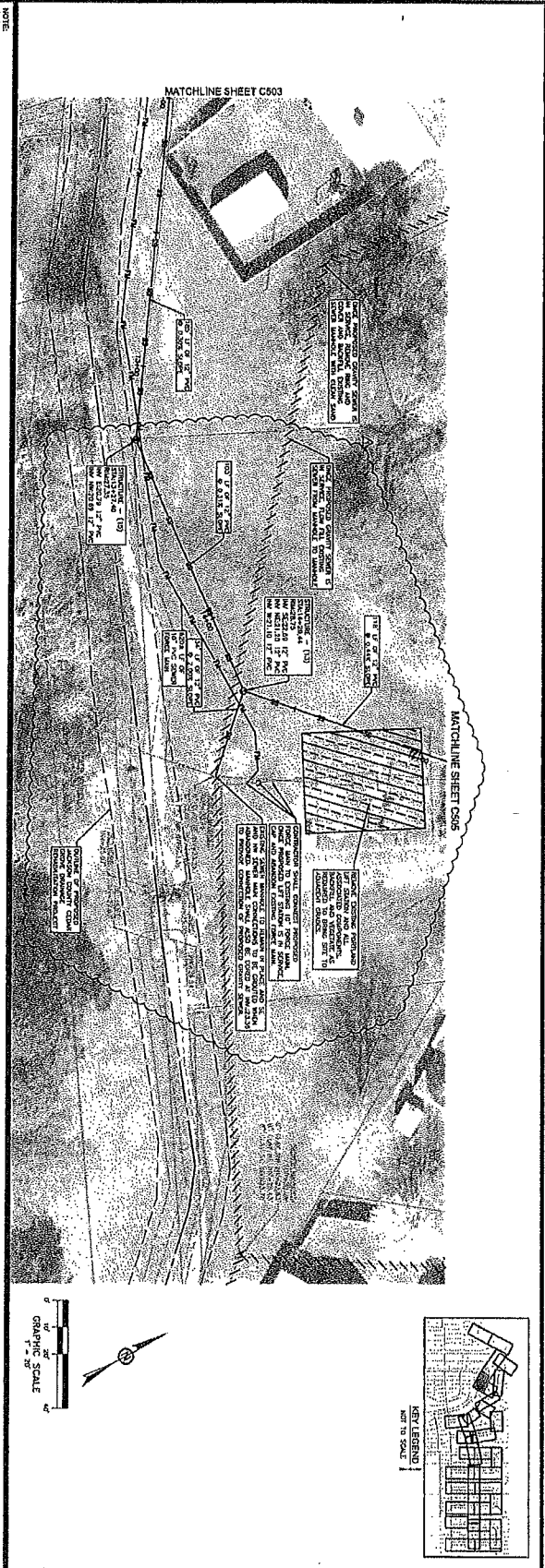
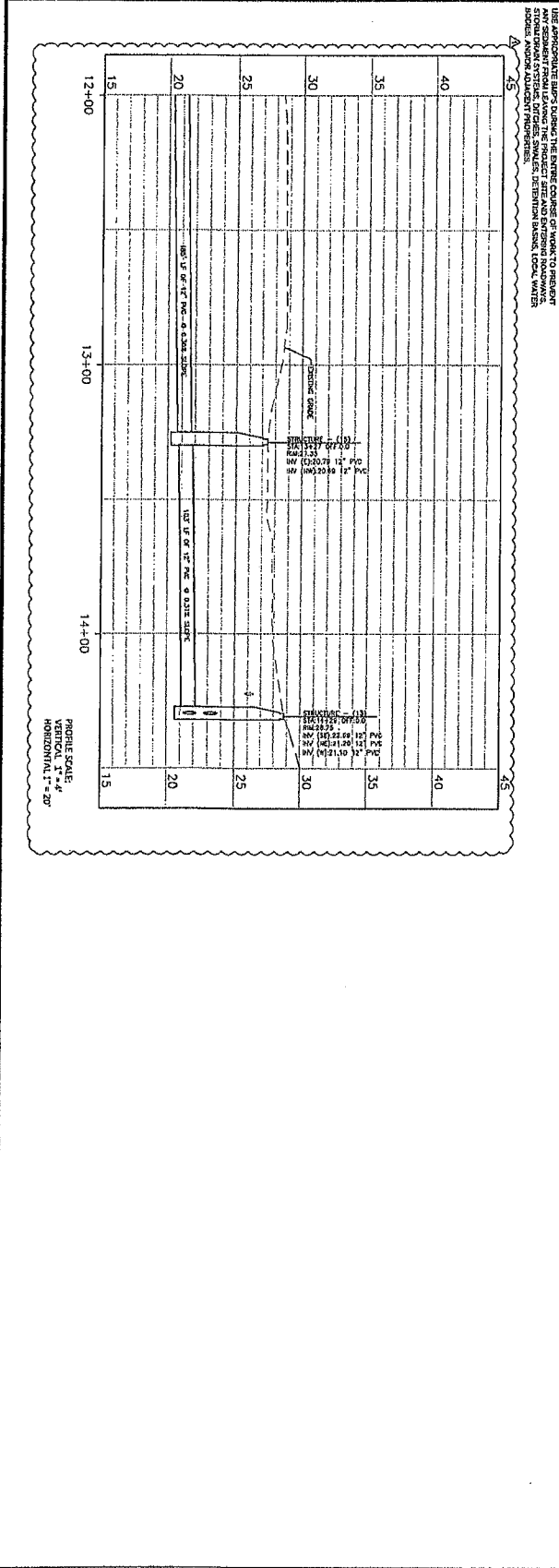


PROFILE SCALE
 HORIZONTAL 1" = 20'



<p>DESIGN GROUP</p> <p>918 Howard Ave Suite F Biola, Mississippi 39233 P: 228.382.1750 www.designgroupinc.com</p>	<p>WEST JACON COUNTY UTILITY DISTRICT</p> <p>7200 MCCANN ROAD BILOXI, MS 39532</p>	<p>PLAN AND PROFILE GRAVITY SEWER SYSTEM STA. 0+00 TO 3+50</p>	<p>REVISIONS</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>REVISIONS/INITIALS</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	NO.	DATE	REVISIONS/INITIALS										<p>PROJECT INFORMATION</p> <p>DATE: 06/29/2023 DRAWN BY: JFOLLE CHECKED BY: JFOLLE</p>	<p>WEST JACON COUNTY UTILITY DISTRICT</p> <p>3405 S. STATE ST. BIOLA, MS 39233 P: 228.382.1750</p>
NO.	DATE	REVISIONS/INITIALS															

THE ORIGINAL, REVISIONS, AND RECALCULATED DRAWINGS ARE THE PROPERTY OF THE DESIGNER. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS OF THE PROJECT AND APPROVE BY THE APPLICABLE AGENCY OR APPROVED BY THE RELEVANT AGENCY. IF DISCREPANCIES OCCUR, THE ORIGINAL, REVISIONS, AND RECALCULATED DRAWINGS SHALL PREVAIL OVER ANY OTHER PLANS. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS OF THE PROJECT AND APPROVE BY THE APPLICABLE AGENCY OR APPROVED BY THE RELEVANT AGENCY. IF DISCREPANCIES OCCUR, THE ORIGINAL, REVISIONS, AND RECALCULATED DRAWINGS SHALL PREVAIL OVER ANY OTHER PLANS.



THE ORIGINAL, SIGNED, SEALED AND DATED ENGINEERING PLANS ARE THE OFFICIAL DOCUMENTS SUBMITTED TO THE APPLICABLE AGENCIES FOR THESE PLANS. CONTRACTOR / SUBCONTRACTOR / AND/OR OWNER SHALL VERIFY ALL DIMENSIONS, PLANS, AND SPECIFICATIONS SHALL BE IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS AND REQUIREMENTS THAT MAY HAVE BEEN REQUIRED BY THE APPLICABLE AGENCY OR AGENCY OF APPROVED BY THE REGISTERED ENGINEER OF RECORD. IF CORRECTIONS ARE MADE TO THE ORIGINAL WORK, SIGNED AND DATED DIMENSIONED PLAN SET SHALL, THROUGH ANY OTHER PARTY, BE THE ENGINEER, DESIGNER, AND WRITER'S BEST INTEREST ON THIS SHEET AND REPRESENTED BY BACKGROUND MATERIAL, FILE, AND CLAIM ALL RIGHTS OF THE COPYRIGHT OWNER.

© COPYRIGHTED MATERIAL

NO.	DATE	REVISION / SUBMITTAL
REV 1	06/16/2023	ISSUED FOR CONSTRUCTION
REV 2	05/09/2023	AS NOTED

PLAN AND PROFILE GRAVITY SEWER SYSTEM
 STA. 12+00 TO 14+50

WASTEWATER FACILITY IMPROVEMENT (PHASE 3)
 WEST JACKSON COUNTY UTILITY DISTRICT
 7200 MCCANN ROAD
 BILOXI, MS 39532

DESIGN GROUP
 910 Howard Ave Suite 1
 P.O. Box 11520
 Biloxi, MS 39511-0152
 www.rpdgroup.com

David J. Leach, P.E.
 David J. Leach, P.E.
 Registered Professional Engineer
 License No. 15124
 Biloxi, MS

SEAL OF THE STATE OF MISSISSIPPI
 ENGINEER
 DAVID J. LEACH
 LICENSE NO. 15124

C504

VERIFIED SCALE: 1" = 40'
 HORIZONTAL: 1" = 20'
 VERTICAL: 1" = 4'

ADDENDUM 2 WEST JACKSON COUNTY UTILITY DISTRICT WASTEWATER FACILITY IMPROVEMENT – PHASE 3

Date: Tuesday July 11, 2023

Project #: 0225.22.007

Project Name: Wastewater Facility Improvement – Phase 3
7200 McCann Road
Biloxi, MS 39532

Owner: West Jackson County Utility District
7200 McCann Road
Biloxi, MS 39532

To: All Prospective Bidders

From: Jason Polite, P.E.

Bidders are hereby informed that the Project Manual and Drawings are modified as follows:

This Addendum forms a part of the Contract Documents and modifies the original Bidding Documents with a submittal date of June 5, 2023. It is the General Contractor's responsibility for providing proper acknowledgement and receipt of this Addendum in the Bid Forms/Document.

Attachments to this Addendum: As described herein.

Total Number of Pages in this Addendum: 3 Pages

PART A: GENERAL ADDENDUM, BIDDING, AND/OR PROJECT NOTES:

- A1. Revision of Bid Date from July 12th, 2023 at 2:00 pm local standard time to July 19th, 2023 at 2:00 pm local standard time. Location of the Bid Opening to remain the same.
- A2. All excess excavation to be removed from the site as a part of this project shall be delivered to the location shown in the attached map. This material shall also be spread to provide a level surface. Contractor shall coordinate with WJCUD and engineer of record prior to delivery of any material.

PART B: CONTRACTOR QUESTIONS WITH RESPONSES (Responses are in RED)

Note: If you do not see your question answered, then we are still researching or working on a solution.

- B1. None this addendum.

PART C: SPECIFICATION CLARIFICATIONS, REVISIONS, AND ADDITIONS:

- C1. None this addendum.

Addendum #02
0225.20.001 – Wastewater Facility Improvement – Phase 3

Page 1 of 2

PART D: DRAWING CLARIFICATIONS, REVISIONS, AND ADDITIONS:

D1. None this addendum.

PART E: APPROVED PRODUCT/VENDOR EQUALS

E1. None this addendum.

END OF ADDENDUM 2



ADDENDUM 3 WEST JACKSON COUNTY UTILITY DISTRICT WASTEWATER FACILITY IMPROVEMENT – PHASE 3

Date: Thursday July 13, 2023

Project #: 0225.22.007

Project Name: Wastewater Facility Improvement – Phase 3
7200 McCann Road
Biloxi, MS 39532

Owner: West Jackson County Utility District
7200 McCann Road
Biloxi, MS 39532

To: All Prospective Bidders

From: Jason Polite, P.E.

Bidders are hereby informed that the Project Manual and Drawings are modified as follows:

This Addendum forms a part of the Contract Documents and modifies the original Bidding Documents with a submittal date of June 5, 2023. It is the General Contractor's responsibility for providing proper acknowledgement and receipt of this Addendum in the Bid Forms/Document.

Attachments to this Addendum: As described herein.

Total Number of Pages in this Addendum: 79 Pages

PART A: GENERAL ADDENDUM, BIDDING, AND/OR PROJECT NOTES:

A1. None this addendum.

PART B: CONTRACTOR QUESTIONS WITH RESPONSES (Responses are in RED)

Note: If you do not see your question answered, then we are still researching or working on a solution.

B1. None this addendum.

PART C: SPECIFICATION CLARIFICATIONS, REVISIONS, AND ADDITIONS:

- C1. All bidders shall not be able to withdraw their bid for seventy (70) days after the actual date of the opening thereof.
- C2. Specification Section Bid Form: Replace this section in its entirety with the attached.
- C3. Specification Section 01150 – Measurements and Payments Unit Price Contracts: Replace this section in its entirety with the attached.
- C4. Specification Section 02537 – Sewage Pump Station: Replace this section in its entirety with the attached.

Addendum #03
0225.20.001 – Wastewater Facility Improvement – Phase 3

Page 1 of 2

- C5. Specification Section 11063-03 – Non-Regional Pump Station Submersible Wastewater Pumps with Relay-Logic Control Panel: Replace this section in its entirety with the attached.

PART D: DRAWING CLARIFICATIONS, REVISIONS, AND ADDITIONS:

- D1. C004: Replace this sheet in its entirety with the attached. Revisions have been clouded.
D2. C627: Replace this sheet in its entirety with the attached. Revisions have been clouded.

PART E: APPROVED PRODUCT/VENDOR EQUALS

- E1. None this addendum.

END OF ADDENDUM 3

**SECTION 01150
MEASUREMENTS AND PAYMENTS
UNIT PRICE CONTRACTS**

1.0 GENERAL

1.1 Cost Included

Unit Prices included on the Bid Form shall include full compensation for all required labor, products, tools, equipment, plant, transportation, services and incidentals; erection, application or installation of an item of the Work; overhead and profit.

1.2 Unit Quantities Specified

Quantities indicated in the Bid Form are for bidding and contract purposes only. Quantities and measurements of actual Work will determine the payment amount.

1.3 Incidental Work

The Contractor's attention is directed to items of work for which no bid item is given but which are necessary for completion of work shown on the plans and outlined in the specifications. Payment will be considered full compensation for all labor, materials, equipment, and all other items necessary and incidental for completion of the work. When any service or materials are required to complete the project and do not have a separate pay item listed, the Contractor shall accept and absorb any and costs involved to complete the project.

1.4 Measurements of Quantities

- A. Measurement methods delineated in the individual specification sections complement the criteria of this section. In the event of conflict, the requirements of the individual specification section govern.
- B. Take all measurements and compute quantities. Measurements and quantities will be verified by Engineer.
- C. Assist by providing necessary equipment, workers, and survey personnel as required.
- D. Measurement Devices:
 - 1. Weigh Scales: Inspected, tested and certified by the applicable state Weights and Measures department within the past year.
 - 2. Platform Scales: Of sufficient size and capacity to accommodate the conveying vehicle.
 - 3. Metering Devices: Inspected, tested and certified by the applicable state department within the past year.
- E. Measurement by Weight: Concrete reinforcing steel, rolled or formed steel or other metal shapes will be measured by handbook weights. Welded assemblies will be measured by handbook or scale weight.
- F. Measurement by Volume: Measured by cubic dimension using mean length, width and height or thickness.
- G. Measurement by Area: Measured by square dimension using mean length and width or radius.
- H. Linear Measurement: Measured by linear dimension, at the item centerline or mean chord.

- I. Stipulated Price Measurement: Where the proposal stipulates specific items on a unit basis, measurement will be made by the unit.
- J. Lump Sum Basis: The work under this item will be paid for at the lump sum price which shall be full compensation for completing the work as described in the plans and specifications.
- K. Plan Measurement (PM): Whenever this method of measurement is used to determine the quantity of soil material used for excavation, it shall be computed by the average end areas of the cross-sections, elevations, and measurements shown on the plans.
- L. Final Measurement (FM): Whenever this method of measurement is specified, the measurement for excavation shall be computed by means of field cross-sections taken at frequent intervals to compute the volume from average end area formulae.
- M. Loose Vehicle Measurement (LVM): Whenever this method of measurement is specified, the excavation will be measured in the hauling vehicle at the point of deposit.
- N. Perform surveys required to determine quantities, including control surveys to establish measurement reference lines. Notify Engineer prior to starting work.
- O. Contractor's Engineer Responsibilities: Sign surveyor's field notes or keep duplicate field notes, calculate and certify quantities for payment purposes.

1.5 Payment

- A. Payment for Work governed by unit prices will be made on the basis of the actual measurements and quantities of Work that is incorporated in or made necessary by the Work and accepted by the Engineer, multiplied by the unit price.
- B. Payment will not be made for any of the following:
 - 1. Products wasted or disposed of in a manner that is not acceptable.
 - 2. Products determined as unacceptable before or after placement.
 - 3. Products not completely unloaded from the transporting vehicle.
 - 4. Products placed beyond the lines and levels of the required Work.
 - 5. Products remaining on hand after completion of the Work.
 - 6. Loading, hauling, and disposing of rejected Products.
- C. Mobilization: Mobilization shall be paid for at the contract unit price per Section 01505 – Mobilization.
- D. Project Video: Project Video shall be paid for at the contract unit price per lump sum, which shall include furnishing all labor, materials and equipment necessary to satisfactory complete the work as noted on the drawings.
- E. Maintenance of Traffic: Maintenance of Traffic shall be paid for at the contract unit price per lump sum, which shall include furnishing all labor, materials and equipment necessary to satisfactory complete the work as noted on the drawings.
- F. Clearing and Grubbing: Clearing and Grubbing shall be paid for at the contract unit price per acre (PM), which shall include furnishing all labor, materials and equipment necessary to satisfactory complete the work as specified.
- G. Removal of Fence: Removal of Fence shall be paid for at the contract unit price per linear foot (FM), which shall include furnishing all labor, materials and equipment necessary to the complete removal and disposal of all fence types and all associated components. Payment of fence removal shall also include furnishing, backfilling, and compacting suitable material for filling fence post holes.

- H. Removal of Obstructions: Removal of Obstructions shall be paid for at the contract unit price per cubic yard (LVM), which shall include furnishing all labor, materials and equipment necessary to remove obstructions as shown on the drawings and/or encountered during construction that would hinder the completion of the project such as trees, old pavements, manholes, catch basins, services, etc. and do not have a separate item listed.
- I. Removal of Existing Lift Station: Removal of Existing Lift Station shall be paid for at the contract unit price per lump sum for each station shown on the drawings, which shall include furnishing all labor, materials and equipment necessary for the complete removal and disposal of the existing lift station wet well, controls, fencing, piping and all other associated components. Contractor shall coordinate salvaging existing equipment with WJCUD prior to disposal. Payment for lift station removal shall include any and all necessary by-pass pumping, dewatering, capping of existing piping, coring of existing sewer manholes, and any and all items necessary to connect the existing sewer system to the new manhole designated the drawings to receive the existing sewer system. Payment shall also include furnishing, backfilling, and compacting suitable material as required to fill the hole left from the lift station removal so that the new grade matches the existing adjacent grades.
- J. Removal of Pipe: Removal of Pipe shall be paid for at the contract unit price per linear foot (FM), which shall include furnishing all labor, materials and equipment necessary to the complete removal and disposal of all pipe types and sizes along with all associated components. Payment of pipe removal shall also include furnishing, backfilling, and compacting suitable material for filling holes left from the pipe system removal.
- K. Removal of Sewer Manholes: Removal of Sewer Manholes shall be paid for at the contract unit price per each, which shall include furnishing all labor, materials and equipment necessary to the complete removal and disposal of all structure types and sizes along with all associated components. Payment of sewer manhole removal shall also include furnishing, backfilling, and compacting suitable material for filling holes left from the structure removal.
- L. Removal of Pavement: Removal of Pavement shall be paid for at the contract unit price per square yard (FM), which shall include furnishing all labor, materials and equipment necessary to the complete saw cutting, removal and disposal of all pavement types and thicknesses as shown on the drawings and/or encountered during construction.
- M. Removal of Concrete Curb: Removal of Concrete Curb shall be paid for at the contract unit price per square yard (FM), which shall include furnishing all labor, materials and equipment necessary to the complete saw cutting, removal and disposal of all concrete curb as shown on the drawings and/or encountered during construction.
- N. Select Bedding Material: Select Bedding Material shall be paid for at the contract unit price per cubic yard (FM), which shall include furnishing all labor, materials and equipment necessary to satisfactory complete the work as specified.
- O. Select Foundation Material: Select Foundation Material shall be paid for at the contract unit price per cubic yard (FM), which shall include furnishing all labor, materials and equipment necessary to satisfactory complete the work as specified.
- P. Unclassified Excavation: Unclassified Excavation shall be paid for at the contract unit price per cubic yard (FM), which shall include furnishing all labor, materials and equipment necessary to satisfactory complete the work as specified.
- Q. Excess Excavation: Excess Excavation shall be paid for at the contract unit price per cubic yard (FM), which shall include furnishing all labor, materials and equipment necessary to satisfactory complete the work as specified.

- R. Borrow Excavation: Borrow Excavation shall be paid for at the contract unit price per cubic yard (FM), which shall include furnishing all labor, materials and equipment necessary to satisfactory complete the work as specified.
- S. Erosion Control Mat: Erosion Control Mat shall be paid for at the contract unit price per square yard (FM), which shall include furnishing all labor, material, and equipment necessary to place and maintaining the mat as necessary to satisfactory complete the work as specified.
- T. Seeding: Seeding shall be paid for at the contract unit price per square yard (PM), which shall include furnishing all labor, material, and equipment necessary to place and maintaining the seeding including all ground preparation, fertilizer, mulching, topsoil (2" min.), and all other requirements as necessary to satisfactory complete the work as specified.
- U. Sodding: Sodding shall be paid for at the contract unit price per square yard (PM), which shall include furnishing all labor, material, and equipment necessary to place and maintaining the sodding including all ground preparation, fertilizer, topsoil (2" min.) and all other requirements as necessary to satisfactory complete the work as specified.
- V. Temporary Silt Fence: Temporary Silt Fence shall be paid for at the contract unit price per linear foot (FM), which shall include furnishing all labor, materials and equipment necessary to construct, maintain, and the removal of silt accumulations throughout the project to satisfactory complete the work as specified. There shall be no separate payment for replacement of damaged or ineffective silt fence.
- W. Temporary Straw Wattles: Temporary Straw Wattles shall be paid for at the contract unit price per linear foot (FM), which shall include furnishing all labor, materials and equipment necessary to construct, maintain, and the removal of silt accumulations throughout the project to satisfactory complete the work as specified. There shall be no separate payment for replacement of damaged or ineffective straw wattles.
- X. Size II Stabilizer Aggregate: Size II Stabilizer Aggregate shall be paid for at the contract unit price per cubic yard (FM), which shall include furnishing all labor, materials and equipment necessary to satisfactory complete the work as specified.
- Y. "610" Limestone: "610" Limestone shall be paid for at the contract unit price per cubic yard (FM), which shall include furnishing all labor, materials and equipment necessary to satisfactory complete the work as specified.
- Z. Hot Bituminous Pavement: Hot Bituminous Pavement shall be paid for at the contract unit price per square yard (FM), which shall include furnishing all labor, materials and equipment necessary to the complete the work as specified for the type and thickness of pavement shown on the drawings.
- AA. Plain Cement Concrete Pavement: Plain Cement Concrete Pavement shall be paid for at the contract unit price per square yard (FM), which shall include furnishing all labor, materials and equipment necessary to the complete the work as specified for the type and thickness of pavement shown on the drawings.
- BB. New Portland Lift Station: New Lift Station shall be paid for at the contract unit price per lump sum, which shall include furnishing all labor, materials and equipment necessary to satisfactory complete the work within the Limits of New Lift Station Construction as noted on the drawings and specified. This shall include excavation, shoring, dewatering, electrical work, controls, wet well, valve pit, site piping, concrete, fencing, spare parts, and all other pump station components required to complete the new lift station as shown on the plans and specified. The contractor shall also include a price of \$15,000 for the Portland Lift Station in his bid for each proposed lift station site for Singing River Electric to provide three phase power to the lift stations.

- CC. Precast Concrete Manhole: Precast Concrete Manhole shall be paid for at the contract unit price per each, which shall include furnishing all labor, materials, rings, covers, and equipment necessary to satisfactory complete the work as specified.
- DD. 100% Epoxy Liner: 100% Epoxy Liner shall be paid for at the contract unit price per square feet, which shall include furnishing all labor, materials and equipment necessary to satisfactory complete the work as specified.
- EE. Gravity Sanitary Sewer Service: Gravity Sanitary Sewer Service shall be paid for at the contract unit price per linear foot, which shall include furnishing all labor, materials and equipment necessary to satisfactory complete the work as specified. Payment shall include all sizes of piping, bends, clean outs, main line wyes, and all other item necessary to connect residential sewer services to the sewer main.
- FF. Low Pressure Sanitary Sewer Service: Low Pressure Sanitary Sewer Service shall be paid for at the contract unit price per each, which shall include furnishing all labor, materials (fittings, etc.) and equipment necessary to satisfactory complete the work as specified. Payment shall include all sizes of piping, bends, valves, check valves and all other item necessary to connect residential sewer services to the sewer main.
- GG. Connection of Sanitary Sewer Force Main to Manhole: Connection of sanitary sewer force main to sanitary sewer manhole shall be paid for at the contract unit price per each, which shall include furnishing all labor, materials (fittings, accessories, etc.) and equipment necessary to satisfactory complete the work as specified for the size and type of piping shown on the drawings.
- HH. Sanitary Sewer Main: Sanitary Sewer Main shall be paid for at the contract unit price per linear foot (FM), which shall include furnishing all labor, materials (fittings, accessories, etc.) and equipment necessary to satisfactory complete the work as specified for the size and type of piping shown on the drawings. This shall include all necessary shoring and dewatering.
- II. Air Relief Valve: Air Relief Valve shall be paid for at the contract unit price per each, which shall include furnishing all labor, materials and equipment necessary to satisfactory complete the work as specified. Payment shall include the manhole, casting, stabilizer aggregate, saddle, valve, and all necessary items required to provide a complete air relief valve.
- JJ. Gate Valve: Gate Valve shall be paid for at the contract unit price per each, which shall include furnishing all labor, materials and equipment necessary to satisfactory complete the work as specified for the size and type of valve shown on the drawings.
- KK. Sewer Force Main: Sewer Force Main shall be paid for at the contract unit price per linear foot (FM), which shall include furnishing all labor, materials, fittings, and equipment necessary to satisfactory complete the work as specified for the size and type of piping shown on the drawings. This shall include all necessary shoring and dewatering.
- LL. Tapping Sleeve and Valve: Tapping Sleeve and Valve shall be paid for at the contract unit price per each, which shall include furnishing all labor, materials and equipment necessary to satisfactory complete the work as specified for the size and type of valve shown on the drawings.
- MM. Horizontal Directional Drill: Horizontal Directional Drill shall be paid for at the contract unit price per linear foot (FM), which shall include furnishing all labor, materials and equipment necessary to satisfactory complete the work as specified for the pipe diameter, location, excavating and backfilling of pits and any and all necessary items required to complete placement of pipe.
- NN. Residential Water Service: Residential Water Service shall be paid for at the contract unit price per each, which shall include furnishing all labor, materials and equipment necessary to satisfactory complete the work as specified. Payment shall include all

- sizes of piping, fittings, valves and all other item necessary to connect residential water services to the water main.
- OO. Storm Pipe: Storm Pipe shall be paid for at the contract unit price per linear foot (FM), which shall include furnishing all labor, materials and equipment necessary to satisfactory complete the work as specified for the size and type of piping shown on the drawings.
- PP. Fence: Fence shall be paid for at the contract unit price per linear foot (FM), which shall include furnishing all labor, materials and equipment necessary to satisfactory complete the work as specified for the type and height of fencing shown on the drawings.
- QQ. Domestic Water Main: Domestic Water Main shall be paid for at the contract unit price per linear foot (FM), which shall include furnishing all labor, materials and equipment necessary to satisfactory complete the work as specified for the size and type of piping shown on the drawings. This shall include all necessary shoring and dewatering.
- RR. Traffic Striping: Traffic Striping shall be paid for at the contract unit price per linear foot (FM), which shall include furnishing all labor, materials and equipment necessary to satisfactory complete the work as specified for the type and color of striping shown on the drawings.
- SS. Mill and Overlay Hot Bituminous Pavement: Mill and Overlay Hot Bituminous Pavement shall be paid for at the contract unit price per square yard (FM), which shall include furnishing all labor, materials and equipment necessary to the complete the work as specified for the type and thickness of pavement shown on the drawings.

1.6 Defect Assessment

- A. Replace Work, or portions of the Work, not conforming to specified requirements.
- B. If, in the opinion of Engineer, it is not practical to remove and replace the Work, Engineer will direct one of the following remedies:
 - 1. The defective Work will be partially repaired to the instructions of the Engineer, and the unit price will be adjusted to a new unit price at the discretion of Engineer.
- C. The individual specification sections may modify these options or may identify a specific formula or percentage price reduction.
- D. The authority of Engineer to assess the defect and identify payment adjustment is final.

SECTION 02537 SEWAGE PUMP STATION

PART 1 GENERAL

1.01 SCOPE OF WORK

- A. This work shall consist of all labor, materials, equipment, tools and services required for the furnishing, installing and testing of precast wet pit type sewage pump stations, including related controls, operation devices, piping, valves and related appurtenances, and all related site construction shown on the site plan in accordance with these specifications and as detailed in the Drawings.

1.02 METHOD OF MEASUREMENT

- A. Pump Stations shall be measured for payment as one lump sum for complete sewage pump station in place, including all structures, pumps, electrical controls, valves, piping, fencing, site work, shoring, dewatering, and related work as shown in the Drawings, and as specified herein. Partial payments will be allowed, based upon Engineer's estimation of the value of work completed.

PART 2 PRODUCTS

2.01 MATERIALS

A. Wet Pit - Concrete

1. Large diameter precast concrete round manhole and flat slab top conforming to ASTM C-478. For superior resistance to sewer gases, cement shall be Portland Cement Type II, and course aggregates shall be crushed limestone.
2. Joints for the precast concrete sections shall be tongue and groove and shall be sealed with a preformed joint compound conforming to Federal Specification SS-S00210 (210-A) and ASHTO Specification M-198.
3. All precast sections shall contain a cementitious crystalline type admixture that chemically controls and permanently fixes a non-soluble crystalline structure throughout the capillary voids of the concrete. Admixture shall be Xypex Admix C-1000 RED or approved equal containing red dye to ensure detection. The admixture dosage shall be 3.5% by weight of cement or as recommended by the manufacturer. Concrete shall be cured in accordance with ACI 308. After the sections are installed, all grouted surfaces shall be properly prepared for application of two (2) coats of Xypex Concentrate at a rate of 1.5 lbs. per square yard of surface area.
4. The product must have the following minimum characteristics:
 - a. Minimum Compressive Strength per ASTM D695 = 12,000 psi
 - b. Minimum Tensile Strength per ASTM D638 = 7,200 psi
 - c. Minimal Flexural Strength per ASTM D790 = 13,000 psi
 - d. Minimum Bond Strength per ASTM D4541 = 900 psi
 - e. Minimum Corrosion Resistance per ASTM D543 = pH 0.5 or higher.
5. Flexible watertight manhole pipe connectors shall be provided at all pipe openings and shall consist of a neoprene rubber boot designed to clamp securely into an opening in the manhole wall and to clamp around the barrel of the sewer pipe. Openings in the manhole wall shall be made by a coring machine or by a hole former during the manufacturing process. Rubber material shall conform to the requirements of ASTM C-923 and be a minimum of 3/8 inches thick. External and internal clamps shall be all type 304 stainless steel conforming to ASTM A-167. Gasket shall be similar to "Kor-N-Seal Boot" as manufactured by the National Pollution Control Systems, Inc., Milford, New Hampshire, or approved equal.

6. Water stops shall be commercially available rubber, employing ribs to engage the PVC pipe and large fins to engage the grout. The stop ring shall be clamped to the pipe by an all-stainless steel worm clamp.
7. Vent pipe per plans.
8. Access hatches per plans.

B. Valve Pit

1. All discharge valves and check valves shall be in a valve pit. The valve pit will have a concrete bottom with concrete or masonry sides.
2. A drain from the bottom of the valve pit to the well pit will be installed to allow drainage of rainwater. The bottom of the valve pit will be sloped to allow for proper drainage.
3. The valve pit will be of sufficient size to allow for maintenance of the valves enclosed. This includes sufficient space to remove the check valve shaft from either side.
4. Access hatches per plans.
5. All hardware in the valve pit will be stainless steel unless specifically stated otherwise.

C. Concrete and Masonry Structures

1. Concrete (used where not exposed to sewer gases) shall conform to Mississippi Department of Transportation Standard Specification, Class B.
2. Reinforcing steel shall be grade 40 or grade 60 billet steel conforming to ASTM A-615.
3. Steel wire fabric shall conform to the requirements of the Standard Specifications for Welded Steel Wire Fabric for Concrete Reinforcement, AASHTO Designation: M-55.
4. Curing materials shall conform to the requirements set out in the Standard Specifications for Liquid Membrane Forming Compounds for Curing Concrete, AASHTO Designation: M-148, Type 2 (White Pigmented).
5. Expansion joint material shall conform to Standard Specifications for Preformed Expansion Joint Fillers for Concrete (non-extruding and resilient types), AASHTO Designation M-213.
6. Concrete Masonry Units (CMU) shall conform to ASTM C-90, Grade N, Type I, shall be hollow, 8" X 16" blocks.
7. Mortar shall be one (1) part Portland Cement, three (3) parts Mortar Sand, Hydrated Lime in proportion of one-tenth (1/10) part of volume of the cement and sufficient water to provide consistency so that it can be easily handled and spread with a trowel.
8. Valve vault cover shall be as specified above for access hatches.

D. Sewage Pumps and Motors

1. See Section 11063-03

E. Station Piping and Valves

1. Ductile iron pipe shall conform to ANSI A21.51 (AWWA C-151) thickness Class 50, cement mortar lined per ANSI A21.4 (AWWA C-104).

2. Ductile fittings shall conform to ANSI A21.10 (AWWA C-110), cement mortar lined per ANSI A21.4 (AWWA C-104).
3. Gaskets for ductile iron pipe shall conform to material requirements of ANSI A-21.11 mechanical joint gaskets, suitable for water working pressures of up to 350 p.s.i.
4. Gate valves shall be of the resilient seat type, conforming to AWWA C-509, epoxy coated inside and outside to AWWA C-550. End connections shall be Class 125 flange. Valves shall be rated for zero leakage to 200 p.s.i., and 400 p.s.i. hydrostatic test pressure. Valves shall be of the non-rising stem design, employing two O-ring stem seals. Gates shall be encapsulated in rubber where exposed to line velocity and shall be field replaceable. Hand wheels shall be provided.
5. Check valves shall be "Full-Flow", bronze clapper design utilizing outside lever and weight or spring, conforming to AWWA C-508. Check valves will have the ability to mount lever on either side. Check valves shall be positioned in the valve vault such that the flapper shaft may be removed without removing the check valve itself.
6. Isolation gate valves, not located in the valve vault shall have a valve box.
7. Plug Valves shall be of the tight closing, resilient faced, non-lubricating variety and shall be of eccentric design such that the valves pressure member (plug) rises off the body seat contact area immediately upon shaft rotation during the opening movement. Valves shall be drop-tight at the rated pressure (175 psi through 12", 150 psi 14" and above) and shall be satisfactory for applications involving throttling service as well as frequent or infrequent on-off service. The valve closing member should rotate approximately 90 degrees from the full-open to full-close position and vice-versa. The valve body shall be constructed of cast iron (semi-steel) conforming to ASTM A126, Class B. Body ends shall be flanged with dimensions, facing, and drilling in full conformance with ANSI B 16.1, Class 125, this including flange thickness. Mechanical Joint to meet the requirements of AWWA C111/ANSI A21.11. Eccentric Plug Valves shall have a rectangular shaped port. Port areas for 3" through 20" valves shall be a minimum 80% of full pipe area. Valve seat surface shall be welded-in overlay, cylindrically shaped of not less than 90% pure nickel. Seat area shall be raised, with raised area completely covered with weld to insure proper seat contact. The machined seat area shall be a minimum of .125" thick and .500" wide. The valve plug shall be constructed of cast iron (semi-steel) conforming to ASTM A126, Class B. The plug shall have a cylindrical seating surface that is offset from the center of the plug shafts. The plug shafts shall be integral. The entire plug shall be 100% encapsulated with Buna-N rubber in all valve sizes. The rubber compound shall be approximately 70 (Shore A) durometer hardness. The rubber to metal bond must withstand 75 lbs. pull under test procedure ASTM D-429-73 Method B.
8. Pressure gauges shall measure from 0 - 60 P.S.I., and also in corresponding feet of water. Pressure gauges shall be oil filled.
9. All hardware in the wet well and valve vault shall be stainless steel unless specifically stated otherwise.
10. All stations will have emergency bypass piping installed. A Valve on the force main and bypass line will be installed and the bypass connection will be located above grade sealed with a blind flange.
11. Pressure gauges shall measure from 0 - 60 psi and also in corresponding feet of water. Gauges shall be oil filled.
12. Guide rails shall be schedule 40 stainless steel.
13. All hardware in the wet well and valve pit shall be stainless steel unless specifically stated otherwise.

F. Pump Control System

1. See Section 11063-03

PART 3 EXECUTION

3.01 CONSTRUCTION REQUIREMENTS

A. Excavation - General

1. Excavation shall include the clearing of the site of the work, the loosening, loading, removing, transporting and disposing of all materials, wet or dry, above or below ground necessary to be removed for all construction included in this contract to the lines, grades and locations shown on the Drawings.
2. Mechanical excavation shall be stopped above the foundation base elevation so that the concrete foundation may be constructed to a firm, undisturbed native earth bed.
3. The Contractor shall, at his own expense furnish and install all temporary sheeting, timbering and bracing required to maintain the excavation in a condition to furnish safe working conditions and to permit the safe and efficient installation of all items of contract work. The Contractor shall further, at his own expense, shore up or otherwise protect all fences, buildings, walls, walks, curbs, or other property adjacent to any excavation which might be disturbed during the progress of the work.
4. Temporary supports must be removed by the Contractor at his own expense after or concurrently with the completion of the permanent facility.
5. The Contractor shall do all ditching, pumping, well pointing and bailing, build all drains, and do all other work necessary to keep the excavation clear of ground water, sewage or storm water during the progress of the work and until the finished work is safe from injury. Where the excavation is wet sand, and suitable construction conditions cannot be obtained by other methods, the Contractor shall install and operate, at his own expense, a pumping system connected with well points, so as to drain the same effectually. All well point holes shall be backfilled with sand after removal. No masonry or pipe shall be laid in water, and water shall not be allowed to rise over masonry until concrete or masonry has set at least 48 hours. All water pumped or drained from the work shall be disposed of in a manner that will not damage adjacent property or other work under construction. Necessary precautions shall be taken to protect all construction against flooding.
6. Whenever the excavation is carried beyond the lines and grades shown on the Drawings, the Contractor shall, at this own expense, refill all such excavated space with such material and in such manner as may be directed.
7. Unsuitable and surplus excavated material not incorporated in the work shall be disposed of by the Contractor at his own expense.
8. In the event that any existing gas pipe, water pipes, conduits, sewers, tile drains or poles are blocked or interfered with by the excavation required on this project, the Contractor shall maintain them in continuous operation. In case of unavoidable or accidental damage, notify utility owner. Water and sewer lines must be repaired by contractor.

B. Installation of Wet Well

1. Reinforcement shall conform accurately to the dimensions and details indicated on the Drawings. Before being placed in any concrete work, it shall be thoroughly cleaned of all rust, mill scale,

mortar, oil, dirt or coating of any character which would be likely to destroy, reduce or impair its proper bonding with the concrete.

2. Concrete shall conform accurately to the dimensions and details indicated on the Drawings. Concrete shall not be permitted to fall more than 6 feet without the use of pipes or tremmies at least 6 inches in diameter. Concrete shall be thoroughly consolidated in a manner that will encase the reinforcement and inserts, fill the forms, and produce a surface of even texture free of rock pockets and excessive voids.
3. Install wet pit (concrete pipe), wet pit top, valve vault, equipment, piping and related appurtenances in accordance with the details in the Drawings and as specified herein.
4. All openings cut into the walls of the wet pit liner for piping and conduit shall be carefully grouted and sealed so that there is no visible evidence of infiltration. Provide a rubber water stop ring at all points where PVC pipes penetrate the wet well wall.

C. Mechanical

1. Pumps, piping, and fittings shall be fitted, assembled, and supported in a manner to avoid strain upon the components.
2. Flanged connections shall be made up with full-sized bolts, without resorting to prying to achieve proper alignment.
3. Installation of pumps and auxiliary equipment shall be as recommended by the pump manufacturer.

D. Electrical

1. All electrical installation shall fully conform with all requirements of the National Electrical Safety Code, the National Electrical Code and all other applicable codes, as well as the requirements specified elsewhere.

E. Concrete and Masonry

1. The concrete used in construction, where not exposed to sewer gases shall be proportioned, mixed and placed in accordance with the provisions and requirements in the MDOT Specifications. Minimum 28-day compressive strength shall be 3000 p.s.i.
2. Forms shall be of wood or metal, straight, free from warp, of sufficient strength to resist the pressure of the concrete without springing, and shall be cleaned thoroughly and oiled before concrete is placed against them. Bracing and staking of forms shall be such that the forms remain in both horizontal and vertical alignment until their removal.
3. Reinforcement shall be placed in exact positions shown on the plans and firmly held during the placing and setting of concrete. Metal devices in contact with exterior surface of the structure shall be galvanized. The use of gravel, pieces of broken stone or brick, metal pipe and wooden blocks as spacers will not be permitted.
4. Surfaces shall receive a broom finish. After the final finish, but before the concrete has taken its initial set, all edges shall be worked with an approved tool.
5. Cure with white pigmented liquid membrane, conforming to ASTM C-309 spray uniformly at a rate of one gallon to not more than 150 square feet by mechanical sprayer immediately after finishing operation is completed.

6. Mortar not used within forty-five (45) minutes after water has been added will be wasted.

F. General

1. All workmanship and materials throughout shall be of the highest quality.
2. Upon completion of work at site, remove excess excavation and restore disturbed areas in such a manner as to insure positive drainage. Seed all disturbed areas and maintain to insure living growth of vegetation.
3. Contractor shall guarantee all materials, equipment, controls and structures for a period of one year against defects in materials and workmanship.
4. Operation and maintenance manuals shall be provided in triplicate, for pumps, motors, controls, and valves.

**SECTION 11063-03 – NON-REGIONAL PUMP STATION
SUBMERSIBLE WASTEWATER PUMPS
WITH RELAY-LOGIC CONTROL PANEL**

PART 1 - GENERAL

1.01 WORK INCLUDED

- A. GENERAL – The pumps and controls provided by the Contractor shall be from a single source supplier (the System Supplier) to insure complete responsibility for an integrated pumping and controls solution. The equipment performance and material specifications shall be used to establish a level of quality suitable for the intended service. Pumping equipment shall conform to standards set forth as a minimum level of performance. The control system shall be capable of being integrated into the Owner's Mission Communications SCADA system. The Contractor shall perform the work of system integration. Any required data transmission devices (radios, modems, routers, etc.) shall be provided by the Contractor at the time integration is performed and shall not be part of this contract. The equipment provided herein shall be furnished with its own monitoring system and shall provide monitoring of the station to be included for a period of three years at no additional cost to the Owner. Relay-Logic control circuitry is specified in the Duplex Control Panel.
- B. The Contractor shall furnish and install a Duplex Pumping Station with Duplex Control Panel with Integral Monitoring for installation by the Contractor. This equipment obtained from the System Supplier shall consist of submersible solids-handling pumps with integral electric submersible motors, cooled by convection/conduction through the motor housing, base elbows, 304 stainless steel guide rails and brackets, stainless steel lifting chain, a duplex Relay-Logic control panel with level measurement instruments, access covers, SCADA RTU and monitoring services. Mechanical and electrical connections shall be as noted on the plans.
- C. The Contractor shall be responsible for supplying the equipment specified herein to meet or exceed these specifications as obtained from the System Supplier for this project. The System Supplier shall be an Authorized Distributor of the proposed products and shall be capable of a form of direct responsive communication within a two (2) hours notification in regards to service requests and parts availability. The responsive System Supplier shall routinely stock complete pumps, controls and parts to repair those units in their own facility.

1.02 QUALITY ASSURANCE

- A. Manufacturer's Qualifications
 - 1. All equipment approved for this project shall meet or exceed all performance, service, and warranty requirements of this specification. Basis for pump design is Wilo EMU FA15.66E with Motor T20.1-4/30KEx pump.
 - 2. The solids-handling pumps shall be suitable for domestic sewage containing rag laden solids, pre-treatment effluent, plant effluent, and possible storm water and shall be designed and fully guaranteed for this use and to pass a 3" solid. The fluid temperature range shall be from 40 degrees to 104 degrees F. The controls manufacturer shall provide products designed and constructed specifically for water and wastewater applications.

1.03 OPERATING CONDITIONS

- A. The pumps for each station shall be capable of providing a current flow/head of 600 GPM @ 97' TDH in accordance with the performance requirements listed in Item C below. The pumps shall be designed to operate between 30 and 60 Hz. The pump shall be non-overloading throughout the specified range of operation without employing a service factor.

- B. The pumps shall also be capable of continuous operation at full load, fully submersed, without cavitation or overheating of the motor. The pump shall reserve a minimum service factor of 1.10.
- C. Pumps provided under this specification shall meet the following performance requirements:

PERFORMANCE REQUIREMENT (CURRENT)	VALUE
Minimum Shutoff Head (ft.) – 60 Hz	135 Feet
Pump Rating (GPM/Ft/Hydraulic Efficiency) – at 60 Hz	600 GPM@97'@56%
Maximum Allowable Horsepower at Pump Rating	31.45HP
Maximum NPSH _R at Either Rating (Ft.)	6.14'
Min - Max Motor Rating (HP) at 40 degrees C	15-31.50 HP
Voltage/Cycle/Phase -	460v/60Hz/3
Motor Design Type	NEMA B – Inverter Duty Rated
Motor Service Factor	1.1
Motor Insulation Rating	H
Maximum Pump Speed (RPM)	1725 RPM
Maximum Rated Current (A)	N/A
Minimum Rated (FL) Power Factor (%)	N/A
Maximum Starting Current (Direct Starting)	N/A
Pump Discharge Connection Size (inches)	6 inch

1.04 TESTING

A. General

Each pump shall be shop-tested and field-tested as specified hereinafter. All costs for the tests shall be borne by the Contractor. In the event that any equipment fails to meet the performance values set forth in this specification, the equipment shall be modified and re-tested or replaced with equipment that performs in accordance with this specification.

B. Field Tests

Equipment shall be field tested as specified hereinafter. Field tests shall be composed of preliminary tests and acceptance tests. The Contractor shall provide the services of authorized equipment supplier's representatives to conduct all field tests.

1. Preliminary tests shall be run on all pumps, motors, and control systems to demonstrate that they are in proper working order. This shall include electrical resistance and 600V megger testing of the motor. Imbalance between stator phase outside of the manufacturer's recommended tolerance or a meg-ohm value of lower than 500 meg-ohms will not be acceptable.
2. Acceptance tests shall be run to demonstrate that the pumping units, motors and control system meet the following requirements:

- a. The pumping units shall operate as specified without excessive noise, cavitation, vibration, and without overheating of the bearings, or without seal leakage as detected by the control equipment.
- b. All automatic and manual controls shall function in accordance with the specified requirements.

1.05 SUBMITTALS

- A. Furnish complete assembly, foundation support, and installation drawings, together with detailed specifications and data covering pumps, motors, material used, parts, devices and other accessories forming a part of the equipment furnished shall be submitted for approval in accordance with the procedure set forth in the General Conditions.

Data and specifications for the equipment shall include, but shall not be limited to the following:

- a. Setting Plans. Setting plans shall include:
 - 1. Anchor bolt layout
 - 2. Anchor bolt dimensions
 - 3. Outline dimensions and weights of pumps, bases, motors, and control enclosures.
- b. Pumps. Data and drawings shall include:
 - 1. Manufacturer, type and model number.
 - 2. Assembly drawing, nomenclature and material list, O&M manual, and parts list.
 - 3. Type, manufacturer, model numbers.
 - 4. Impeller type, diameter, thru-let dimensions, number of vanes and identification number.
 - 5. Complete motor performance data including: rating, voltage/phase/frequency; design type; service factor; insulation class; motor pole number; actual rotation speed when combined with the specified pumps; current, power factor and active input power (KW) as a continuous function of shaft power from no load to at least 115 percent load, start (max. inrush) current; locked rotor current; NEC code letter; and motor torque as a continuous function through the motor start cycle from no rotation to synchronous speed.
 - 6. Complete performance test curve(s) showing full range (shutoff to run-out) head vs. Capacity, NPSHR, hydraulic efficiency, motor active (KW) input power, and shaft power (BHP).
 - 7. Location and description of Service Centers and spare parts stock.
 - 8. Warranty for the proposed equipment.

The manufacturer shall indicate, by arrows to points on the Q/H curves, limits recommended for stable operation, between which the pumps are to be operated to prevent surging, cavitation, and vibration. The stable operating range shall be as large as possible, and shall be based on actual hydraulic and mechanical characteristics of the units and shall meet the hydraulic performance requirements of the proposed system.

- B. Furnish shop drawings and other pertinent data to the Engineer and obtain his approval before fabrication. The drawings shall be complete with respect to dimensions, materials of construction, wiring diagrams, and all supporting engineering information.
- C. At least one month before installation of this work, submit four (4) copies of operation and maintenance instructions to the Engineer.

1.06 DELIVERY, STORAGE AND HANDLING

- A. Deliver store and handle items of equipment in a manner that will prevent any damage.
- B. Follow manufacturer's instructions for short term and long term storage, particularly with respect to proper lubricants and periodic rotation of shafts and bearing.
- C. Touch up shop paint to prevent corrosion.

1.07 COORDINATION

- A. Coordinate this work with the work of other trades to avoid interferences and to provide for timely installation.

PART 2 - PRODUCTS

2.1 Solids-Handling Pumps with Electric Submersible Motors

- A. Furnish submersible solids-handling pumps as noted on the plans. Each pump shall be equipped with a closed loop cooling system with submersible electric motors connected for operation on a 460 V, 60 HZ 3 Phase power service as noted. Pumps shall be furnished with a submersible cable with shielded conductors with length as required to reach the termination point shown on plans plus an additional 5' (five) feet. The cable shall be suitable for submersible pump applications. The power cable shall be sized according to NEC and ICEA standards. Each pump shall be supplied with a mating cast iron base elbow drilled on an ANSI B16.1 bolt pattern.

- 1. Acceptable Manufacturers will be those who meet or exceed all performance, material, warranty and service requirements of these specifications. Basis of design is the Wilo EMU FA15.66E with Motor T20.1-4/30KEx pump.

2.2 PUMP DESIGN

- A. The pumps for this application shall be designed to operate in a fully submerged configuration without the need of an external cooling source. The motors and cable entry system shall be capable of complete submergence and capable of handling a liquid temperature of at least 104 degrees F.

2.3 PUMP CONSTRUCTION

- A. Major pump components shall be of gray cast iron, ASTM A-48, Class 35B, with smooth surfaces devoid of blow holes or other casting irregularities. All exposed nuts or bolts shall be AISI type 316 series stainless steel. All metal surfaces coming into contact with the pumped media, other than stainless steel and/or brass, shall be protected by a factory-applied coating system suitable for sewerage pumping applications.
- B. Sealing design shall incorporate metal-to-metal contact between machined surfaces. Pump/Motor unit mating surfaces where watertight sealing is required shall be machined and fitted with Nitrile or Viton Rubber O-rings. Joint sealing will be the result of controlled compression of rubber O-rings in two planes and O-ring contact of four sides without the requirement of a specific bolt torque limit.
- C. Rectangular cross-sectioned gaskets that require specific torque limits to achieve compression shall not be considered as adequate or equal. No secondary sealing compounds, elliptical O-rings, grease or other devices shall be used in any part of the pump.

2.4 COOLING SYSTEM

- A. Each unit shall be provided with an adequately designed integral cooling system that allows a

minimum of 15 motor starts per hour with a partially-submerged motor on a continuous basis in an ambient 104 degree F environment, and in a standard available version, with no damage to motor windings, bearings, or drive shaft seals. All stators shall be heat shrink fitted without the need for external pins or bolts to secure the stator into the housing.

2.5 CABLE ENTRY SEAL

- A. The cables for each pump shall pass through a galvanized cast iron strain relief component and then through a series of stainless steel disks and Buna-n grommet that is sandwiched between the disks to control compression of the grommet. The cable entry design shall be of the type recommended in the FM specifications for Explosion Proof Certification. The entry shall be comprised of the cast iron fitting that will include the Buna-N strain relief grommet coupled with a poured conductor section. In the poured section, only FM-approved sealant shall be used to wick into each conductor strand that has the insulation removed in this area to provide a positively leak-proof seal for the power and sensor cords.
- B. Cables shall be of the "NSSHOU" type and shall be approved by the MSHA for use in hazardous locations and shall conform to industry standards for loads, resistance under submersion against sewage, and be of stranded construction.
- C. Power and control cables shall be furnished in lengths to run un-spliced from the pump to the pump control panel. Cables shall terminate with conductor sleeves that bundle the entire group of strands of each phase to improve termination at the pump control panel. The sleeves shall be provided to confirm that all strands of each conductor are terminated properly. Termination shall be coordinated with the connection to the Pump Control Panel.

2.6 MOTOR

- A. Each pump shall be driven by a vertical, submersible squirrel cage induction motor, shell type NEMA B design, oil-filled and housed in a dry, watertight chamber. The motor and pump shall be provided by the same manufacturer.
- B. The stator winding shall be insulated with moisture resistant Class F insulation, rated for a temperature of 311 degree F.
- C. The motor shall constructed with moisture resistant NEMA Class F insulation and Class F slot liners and constructed to NEMA B design standards. The copper wound stator shall be dipped in epoxy enamel and hardened to withstand a temperature of 311 degrees F for Class F as defined in NEMA Standard MG-1. Each winding phase or layer shall be laced with Class F glass lined paper. The use of cable ties to restrain windings shall not be allowed. The rotor shall be statically and dynamically balanced after fabrication. The rotor shall utilize aluminum amortisseur bars and short circuit rings. The motor shall be certified for continuous duty with a service factor of 1.10 and shall be non-overloading over the entire range of the impeller. Three thermal switches shall be embedded in the stator end coils, one per phase winding, to monitor the stator temperature. These thermal switches shall be used in conjunction with, and supplemental to, external motor overload protection, and shall be connected to the motor control panel. Thermal switches shall automatically de-energize the motor when its temperature exceeds a preset limit as recommended by the manufacturer.
- D. The motor shall have a voltage tolerance of plus or minus 10%. The motor shall be designed for continuous operation in a 104 degree F ambient environment and shall have a NEMA Class B maximum operating temperature rise of 176 degree F. A motor performance curve shall be provided upon request, showing torque as a function of speed, and current, power factor, speed, input power in KW, and efficiency as a function of shaft power.
- E. The motor shall be sized to be non-overloading when the pump is operated at any point on the pump performance characteristic curve.

- G. The total length of each cable shall be a minimum of 50 feet long.
- H. The motor shall bear the Factory Mutual (FM) explosion-proof label certifying its use in a Class 1, Division 1, Groups C & D hazardous location

2.7 BEARINGS

- A. The integrated pump/motor shaft shall rotate on at least two (2) sealed and permanently lubricated bearings. External bearing lubrication ports, which allow bearing contamination and over-packing, will not be allowed. The upper bearing, providing for radial thrust, shall be a single row, roller or ball bearing. The lower bearing shall consist of at least one double row angular contact bearing for combined axial and radial loads. Minimum L₁₀ bearing life shall be 50,000 hours at any usable portion of the pump curve. Designs that do not protect the pump/motor from thrust in reverse directions shall not be acceptable.

2.8 MECHANICAL SEAL

- A. Each pump shall be provided with tandem mechanical seals with the seal housing constructed of AISI 420 series (1.4028) stainless steel and the spring system constructed of AISI 301 (1.4310) stainless steel. The block seal housing shall be constructed such that it can be dismantled allowing the seal faces and springs to be renewed and the seal system to be placed back into service. Cartridge seals constructed such that they cannot be repaired or renewed shall not be acceptable. Both upper and lower seal faces shall be silicon carbide versus silicon carbide.
- B. The seal shall be mounted in a separate and isolated seal chamber. The seal chamber shall be filled with non-conductive lubricating oil as recommended by the manufacturer.
- C. A moisture sensor shall be furnished to sense moisture intrusion for each pump. This sensor shall be wired to the Pump Control Panel and shall activate an alarm light upon moisture intrusion. The sensor probe shall be mounted in the seal chamber and shall be of the conductive type, sensing moisture intrusion above the lower seal, but below the upper seal.

2.9 PUMP SHAFT

- A. The shaft shall be 416 stainless steel, ASTM A479 S43100-T or AISI 420. Shaft sleeves will not be acceptable.

2.10 IMPELLER

- A. The impeller shall be of Hi-Chrome Iron, ASTM A532 (Alloy III A) 25, dynamically balanced. Replaceable suction liner shall be made of materials of ASTM A 532 High Chrome Iron, minimum 450 Brinell hardness. The impeller shall be a non-clog design. The impeller to volute clearance shall be adjustable by a single adjustment screw or the impeller shall have a separate SS wear ring assembly. The Impeller shall be locked to the shaft, held by an impeller bolt and treated with a corrosion inhibitor. The arrangement shall be such that the impeller cannot unscrew or be loosened by torque from either forward or reverse rotation.

2.11 VOLUTE

- A. The pump volute shall be a single piece gray cast iron, ASTM A-48, Class 30 or 35B, non-concentric design with smooth passages of sufficient size to pass a 3.10" solid that may enter the impeller. Suction and discharge flanges shall be 125# and meet ANSI standard B16.1.

2.12 PROTECTION

- A. All stators shall incorporate thermal switches in series to monitor the temperature of each phase winding. At a maximum of 284 degree F the thermal switches shall open, stop the motor and activate an alarm..
- B. Each pump/motor unit shall be provided with a stator leakage sensor that will sense water intrusion into the motor housing in the event of seal failure or cable entry failure.

PART 3 - EXECUTION

3.01 INSPECTION

- A. Inspect all equipment upon arrival at job site and prior to installation. Notify manufacturer of any damage and/or shortage.

3.02 PREPARATION

- A. Make corrections and/or repairs as required for items inspected and found being deficient.

3.03 INSTALLATION

- A. Install pumps and accessories in strict accordance with the manufacturer's instructions.

3.04 FIELD QUALITY CONTROL

- A. The manufacturer's field engineer or representative shall inspect and check the installation after erection and be on hand for initial start-up of the equipment for a period of at least three days. He shall also instruct waste water personnel in the operation and maintenance of the system.

3.05 ADJUSTING AND CLEANING

- A. Adjust equipment as required and within limits of manufacturer's instructions for proper alignment.
- B. Apply proper type and quantity of lubricants for short term storage or start-up operation as applicable.
- C. Clean equipment of any foreign matter or substances.
- C. Field paint all components to be painted in accordance with manufacturers recommendations.

3.06 PROTECTION

- A. After installation and painting protect the equipment from any damage by work of other trades. Repair any damage that nevertheless occurs.

PART 4 – DUPLEX CONTROL PANEL

4.1 SCOPE

- A. The System Supplier shall provide a Duplex Pump Control System with integral remote monitoring for the station that shall control 2 pump mode of operation. The control panel shall provide power and logic control to operate two pumps at the rated voltage and FLA of the pump motors. The control voltage shall be 120-Volt, single phase. Remote monitoring to be via a cellular SCADA system that is compatible with the current Mission Communications system.

- B. The control logic shall provide for the automatic operation and alternation of the lead pump under normal conditions. If the incoming flow exceeds the pumping capacity of the lead pump, the lag pump shall automatically operate to handle the increased flow. As the wet well level decreases, both pumps shall shut off at the pumps off level. In the event of a pump failure or a flow that exceeds the capacity of the pumps, a high alarm level shall operate a red flashing alarm light. The pump designated as lead pump shall alternate each duty cycle. The alarms covered herein shall be operational at all times to monitor the pumps operation and protect the pumps. The Electrical Contractor shall provide an external fused disconnect and meter pan for the electrical service all external to the Duplex Control Panel. All components shall be housed in 304ss enclosures.

4.2 ELECTRICAL CONTROL PANEL

- A. The pump controls shall be housed in a Modified NEMA 4X Stainless Steel enclosure sized to house all the required components and allow adequate space for testing and maintenance as necessary. The enclosure shall have a drip shield, padlockable three-point latch, steel back plate painted white, continuous door hinge, and an aluminum inner door with continuous hinge to protect all live internal wiring from operator personnel. The inner door shall be able to open a minimum of 150 degrees to allow safe access to the components. All controls, switches, indicator pilot lights, and elapsed time meters shall be mounted through the inner door. All other components shall be securely mounted to the backplate with stainless steel hardware through machine thread tapped holes in the backplate. The screws shall be of adequate size for the device being secured. Permanent marking to identify each component as shown on the drawing shall be provided on the back plate and schematic laminated on inside of enclosure door.
- B. Provide properly sized main circuit breaker, pump circuit breaker, Toshiba AS3 or Schneider Electric Altivar VFD, power distribution, ground, and neutral block, 115V control circuit with circuit breaker, phase monitor relay, and lightning arrestor (shipped loose for installation at incoming feed). Elapsed Time Meters for each pump, Elapsed Time Meters for simultaneous pump run non-reset type, 22mm HOA switches, 22mm pump run indicator lights and general-purpose duplex GFCI outlet minimum rating of 10 amps to be mounted on inner door. Provide circuit breaker for GFCI outlet. Provide weatherproof exterior 3 1/2" diameter flashing alarm light with red Lexan to be mounted on top of enclosure.
- D. The Duplex Float Switch Control shall be implemented using conventional relay logic. An exposed circuit board controller will not be approved. The control logic shall accept four normally open floats as level sensing inputs so when the wet well is empty all of the floats are open. On rising water the Off float closes first which causes the control logic to take no action. The Lead float will close next as the water rises. The control logic will then turn on the lead pump. If this pump causes the water level to fall the lead pump will be turned off when both the Lead and Off float are out of the water and open. If the lead pump is not sufficient to control the water level then the lag pump will be started when the Lag float closes. The pumps will not be turned off until the Lag, Lead, and Off floats are out of the water and open, at which time, all pumps will be turned off. The control logic shall have an adjustable time delay on the lag pump so that pumps cannot start at the same time. The control logic shall include; selector switches for alternation, HOA switches, and inputs for pump seal fail sensors and motor thermal sensors if submersible pumps are used. The seal fail detection device shall be as recommended by the pump manufacturer. This shall typically involve measuring the resistance between the seal fail probe and the case of the motor using low voltage. If a seal fail is detected a pilot light will be illuminated but the pump will not be disabled. If a temperature failure is detected the pump will be disabled and an indicating light will be illuminated. This temperature fail condition will be latched up until reset and include provisions to prevent inadvertent latch ups caused by electrical noise or on power up. Indicating lights for pump run, temp and seal fail and high alarm shall be provided. The panel shall be SCADA-Ready with a separate terminal strip for I/O connections between panel and SCADA RTU. RTU monitoring system to be Mission M852 or approved equal.
- E. Drawings and Markings

1. All component parts in the control panel shall be permanently marked and identified as they are indicated on the back plate, adjacent to the component.
2. The panel shall include engraved nameplates on the inner door for all components to indicate the device function. The nameplates shall be permanently affixed with plated machine screws or a bonding adhesive suitable for the application
3. Upon completion of the panel a complete set of As Built drawings and Bill of Materials shall be supplied to the owner. The drawings shall include a power and control schematic and a terminal block diagram showing each remote connection to the panel. An adhesive Mylar copy of the schematic drawings and terminal diagram must be permanently affixed to the inside of the control panel door.
4. All panel equipment shall be warranted against defects in material and workmanship for a period of one (1) year from the date of Owner's final inspection and acceptance or eighteen (18) months from date of shipment, to the effect that any defective equipment shall be repaired or replaced, at the discretion of the supplier.

PART 5- SERVICE AND WARRANTY

5.01 SERVICE

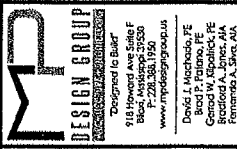
- A. The pump manufacturer shall have a direct factory service center/stocking facility capable of completely servicing, and which stocks identical complete drive units, and spare parts for, the proposed pumps. The System Supplier shall be an Authorized Distributor of the proposed products and shall be capable of a form of direct responsive communication within a two (2) hours notification in regards to service requests and parts availability.

5.02 WARRANTY

- A. The pump manufacturer shall provide a prorated warranty for the units supplied to the Owner against defects in material and workmanship for a period of at least five (5) years or 10,000 operating hours in writing under the operating conditions presented by this project, in accordance with their standard published Municipal Pump Warranty. Pump manufacturer shall demonstrate ability to support claimed warranty coverage by meeting all requirements of this specification.

PART 6- PAYMENT

- 6.01 Payment for work in this section shall be included in the unit price / lump sum price as outlined. Bid price shall include all cost of labor, materials and incidentals complete.



WEST JACKSON COUNTY
UTILITY DISTRICT
7200 MCCANN ROAD
BLOOM, MS 39592

WASTEWATER FACILITY IMPROVEMENT
(PHASE 3)

BASE BID

SUMMARY OF QUANTITIES

NO.	DATE	REVISION / DESCRIPTION	BY	APP'D
01	08/22/2023	ISSUE FOR CONSTRUCTION		
02	08/22/2023	ISSUE FOR CONSTRUCTION		
03	08/22/2023	ISSUE FOR CONSTRUCTION		
04	08/22/2023	ISSUE FOR CONSTRUCTION		
05	08/22/2023	ISSUE FOR CONSTRUCTION		
06	08/22/2023	ISSUE FOR CONSTRUCTION		
07	08/22/2023	ISSUE FOR CONSTRUCTION		
08	08/22/2023	ISSUE FOR CONSTRUCTION		
09	08/22/2023	ISSUE FOR CONSTRUCTION		
10	08/22/2023	ISSUE FOR CONSTRUCTION		
11	08/22/2023	ISSUE FOR CONSTRUCTION		
12	08/22/2023	ISSUE FOR CONSTRUCTION		
13	08/22/2023	ISSUE FOR CONSTRUCTION		
14	08/22/2023	ISSUE FOR CONSTRUCTION		
15	08/22/2023	ISSUE FOR CONSTRUCTION		
16	08/22/2023	ISSUE FOR CONSTRUCTION		
17	08/22/2023	ISSUE FOR CONSTRUCTION		
18	08/22/2023	ISSUE FOR CONSTRUCTION		
19	08/22/2023	ISSUE FOR CONSTRUCTION		
20	08/22/2023	ISSUE FOR CONSTRUCTION		
21	08/22/2023	ISSUE FOR CONSTRUCTION		
22	08/22/2023	ISSUE FOR CONSTRUCTION		
23	08/22/2023	ISSUE FOR CONSTRUCTION		
24	08/22/2023	ISSUE FOR CONSTRUCTION		
25	08/22/2023	ISSUE FOR CONSTRUCTION		
26	08/22/2023	ISSUE FOR CONSTRUCTION		
27	08/22/2023	ISSUE FOR CONSTRUCTION		
28	08/22/2023	ISSUE FOR CONSTRUCTION		

SCALE AS INDICATED
PROJECT NO. 22S2207
ENCLOSURE DRAWING

PROJECT NO. 22S2207

PROJECT NO. 22S2207

SUMMARY OF QUANTITIES (BASE BID)

ITEM NO.	DESCRIPTION	UNIT	TOTAL QTY	AS-BUILT QTY	ITEM NO.	DESCRIPTION	UNIT	TOTAL QTY	AS-BUILT QTY
1	MOBILIZATION	LS	1		29	HOT BITUMINOUS PAVEMENT, 2" THICK SURFACE COURSE (TYPE 9.5mm)	SY	5200	
2	PROJECT VIDEO	LS	1		30	PLAIN CEMENT CONCRETE PAVEMENT, 6" THICK	SY	1050	
3	MAINTENANCE OF TRAFFIC	LS	1		31	CONCRETE CURB	LF	3100	
4	CLEARING AND GRUBBING	ACRE	2		32	NEW PORTLAND OVERLIFT STATION	LS	1	
5	REMOVAL OF FENCE, ALL TYPES	LF	300		33	4" DIAMETER PRECAST CONCRETE MANHOLE (6'-4")	EA	2	
6	REMOVAL OF OBSTRUCTIONS	CY	1000		34	4" DIAMETER PRECAST CONCRETE MANHOLE (6'-6")	EA	3	
7	REMOVAL OF EXISTING LIFT STATION - PORTLAND	LS	1		35	4" DIAMETER PRECAST CONCRETE MANHOLE (6'-6")	EA	12	
8	REMOVAL OF EXISTING LIFT STATION - TRENTON	LS	1		36	4" DIAMETER PRECAST CONCRETE MANHOLE (6'-6")	EA	13	
9	REMOVAL OF EXISTING LIFT STATION - BAYOU PLACE	LS	1		37	4" DIAMETER PRECAST CONCRETE MANHOLE (10'-12")	EA	4	
10	REMOVAL OF PIPE (ALL SIZES)	LF	3600		38	4" DIAMETER PRECAST CONCRETE MANHOLE (12'-14")	EA	2	
11	REMOVAL OF SEWER MANHOLE	EA	7		39	4" DIAMETER PRECAST CONCRETE MANHOLE (14'-16")	EA	2	
12	REMOVAL OF ASPHALT PAVEMENT (ALL THICKNESSES)	SY	5200		40	300# EPDM RUBBER	SY	830	
13	REMOVAL OF CONCRETE PAVEMENT (ALL THICKNESSES)	SY	1650		41	GRANIT SANITARY SEWER SERVICE (ALL SIZES)	LF	1600	
14	REMOVAL OF CONCRETE CURB (ALL TYPES)	LF	3100		42	LOW PRESSURE SANITARY SEWER SERVICE (ALL SIZES)	EA	10	
15	FLOWABLE FILL	CY	50		43	8" PVC SDR-26 SANITARY SEWER MAIN	LF	4500	
16	SELECT BEDDING MATERIAL (P/M)	CY	1000		44	12" PVC SDR-26 SANITARY SEWER MAIN	LF	3600	
17	SELECT FOUNDATION MATERIAL (P/M)	CY	1000		45	24" DUCTILE IRON PIPE SLEEVE	LF	40	
18	UNCLASSIFIED EXCAVATION (P/M)	CY	20000		46	10" RATE VALVE	EA	1	
19	EXCESS EXCAVATION (P/M)	CY	5000		47	10" PVC SEWER FORCE MAIN	LF	680	
20	BORROW EXCAVATION (P/M) (A/H CLASS BE)	CY	5000		48	10" TAPPING SERVE AND VALVE	EA	1	
21	EROSION CONTROL MAT	SY	1000		49	RESIDENTIAL WATER SERVICE (ALL SIZES)	EA	20	
22	SEEDING (P/M)	SY	10000		50	12" RCP STORM PIPE	LF	20	
23	SODDING (P/M)	SY	10000		51	12" RCP STORM PIPE	LF	20	
24	TEMPORARY SILT FENCE	LF	13000		52	18" RCP STORM PIPE	LF	20	
25	TEMPORARY STRAY WATERS	LF	2000		53	CHAIN LINK FENCE	LF	100	
26	SIZE 11 STABILIZER AGGREGATE (GRAVEL) (P/M)	CY	2000		54	WOOD FENCE	LF	200	
27	6" LIMESTONE (P/M)	CY	1000		55	2" PVC WATER MAIN (INCLUDING FITTINGS, VALVES, ETC)	LF	300	
28	HOT BITUMINOUS PAVEMENT, 4" THICK BASE COURSE (TYPE 19mm)	SY	5200						

