

City of Bruceville-Eddy NEW WASTEWATER SYSTEM - USDA RURAL DEVELOPMENT ENGINEER'S PRELIMINARY OPINION OF PROBABLE COST

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|--|------------|------------|---|--------------|
| DESCRIPTION | QUANT | TTY UNITS | LIMIT COOT | |
| 1 Mobilization & Demobilization | 1 | L.S. | | TOTAL COST |
| 2 Site Preparation & Erosion Control | 1 | L.S. | \$250,000.00 | \$250,000 |
| 3 OSHA Trench Safety | 106,88 | | \$50,000.00 | \$50,000 |
| 4 Select Material (within Pipe Zone) | 106,88 | | \$1.50 | \$160,331 |
| 5 New 6" SDR 26 Sewer Line (0'-10') | 63,970 | | \$2.50 | \$267,218 |
| 6 New 6" SDR 26 Sewer Line (10'-18') | 10,042 | | \$35.00 | \$2,238,950 |
| / New 8" SDR 26 Sewer Line (0'-10') | 15,337 | | \$50.00 | \$502,100 |
| 8 New 8" SDR 26 Sewer Line (10'-18') | 7,139 | ' LF LF | \$40.00 | \$613,480 |
| 9 New 10" SDR 26 Sewer Line (0'-10') | 5,100 | | \$60.00 | \$428,340 |
| 10 New 10" SDR 26 Sewer Line (10'-18') | 4,867 | LF | \$45.00 | \$229,500 |
| 11 New 10" SDR 26 Sewer Line (18'-22') | 432 | LF | \$80.00 | \$389,360 |
| 12 New 6" Road Bore & Steel Encasement | 650 | LF | \$100.00 | \$43,200 |
| 13 New 8" Road Bore & Steel Encasement | 450 | LF | \$200.00 | \$130,000 |
| 14 New 10" Road Bore & Steel Encasement | 500 | LF | \$225.00 | \$101,250 |
| 15 New 6" Clean Out | 10 | LF | \$250.00 | \$125,000 |
| 16 New Manholes (0'-10') | 214 | EA | \$500.00 | \$5,000 |
| 17 New Manholes (10'-18') | | EA | \$2,500.00 | \$535,000 |
| 18 New Manholes (20'-22') | 74 | EA | \$3,500.00 | \$259,000 |
| 19 New Manhole Drop Fixture | 1 | ΕA | \$5,000.00 | \$5,000 |
| 20 Service Connection to include New WYF 1/8 Rend 8 2 | 40 | EA | \$1,000.00 | \$40,000 |
| vay Cleanout in Public, & City Service Line | 589 | EA | \$1,000.00 | |
| 21 Service Line in Private Property (Fasements) | 5,000 | LF | | \$589,000 |
| 22 Service Connection to Include 2-Way Cleanout Con | | | \$20.00 | \$100,000 |
| OSSF in Private Property (Easements) 23 Large Lift Station Including Electrical | 32 | EA | \$500.00 | \$16,000 |
| 23 Large Lift Station Including Electrical 24 Small Lift Station Including Electrical | 3 | EA | \$65,000.00 | |
| 25 Large Lift Station Generator | 6 | EA | \$50,000.00 | \$195,000 |
| 26 Small Lift Station Generator | 3 | EA | \$25,000.00 | \$300,000 |
| 27 New 1-1/2" HDPE Force Main | 6 | EA | \$15,000.00 | \$75,000 |
| 28 New 2" HDPE Force Main | 6,570 | LF | \$7.50 | \$90,000 |
| 29 New 3" HDPE Force Main | 2,940 | LF | \$7.50 | \$49,275 |
| 30 New 5" HDPE Force Main | 3,560 | LF | \$10.00 | \$22,050 |
| 31 New 6" HDPE Force Main | 5,890 | LF | \$17.00 | \$35,600 |
| 32 New 1-1/2" Force Main Bore & Encasement | 2,780 | LF | \$17.00 | \$100,130 |
| 33 New 5" Force Main Bore & Steel Encasement | 400 | LF | \$100.00 | \$47,260 |
| 33 New 5" Force Main Bore & Steel Encasement New 6" Force Main Bore & Steel Encasement | 800 | LF | \$190.00 | \$40,000 |
| New 6" Force Main Bore & Steel Encasement 230,000 Gallon Sewage Treatment Plant | 100 | LF | \$200.00 | \$152,000 |
| 230,000 Gallon Sewage Treatment Plant 36 50 Acre Irrigation (Green Infrastructure) | 1 | EA | \$1,400,000.00 | \$20,000 |
| 50 Acre Irrigation (Green Infrastructure) | 1 | EA | \$400,000.00 | \$1,400,000 |
| ESTIMATED ITEMIZED CONSTRUCTION COST | | | , | \$400,000 |
| CONTINGENCY: | | | 17% | \$10,004,000 |
| ESTIMATED TOTAL CONSTRUCTION COST: | | | 17 70 | \$1,700,700 |
| ADMINISTRATION OF LEGAL EXPENSES: | | | | \$11,704,700 |
| LAND, STRUCTURES, RIGHT-OF-WAY APPRAISALS ET | C. | | | \$7,500 |
| I NELIWINARY ENGINEERING-SECTION B. 1. | O . | | | \$400,000 |
| ENVIRONMENTAL ASSESSMENT-SECTION B-1: | | | | \$31,500 |
| ENGINEERING FEES-SECTION B-2 (b): | | | | \$31,500 |
| OTHER ENGINEERING FEES-SECTION D: | | | | \$630,000 |
| PROJECT INSPECTION FEES-SECTION C: | | | | \$40,000 |
| THE TELESTON C. | | | | \$100,000 |
| Required Additional Administrative Costs | | | | |
| ADMINISTRATION OF LEGAL EXPENSES: | | | | |
| LAND ACQUISITION (SURVEY LEGAL AGENT CLOSING) | | | | \$50,000 |
| ENGINEER AMENDMENT NO. 2 (American Iron & Steel plus | 0 | | | \$160,000 |
| MINIMUM TOTAL ESTIMATED PROJECT COST: | Scope of \ | (Vork | | \$280,500 |
| TO THE ED THMATED PROJECT COST: | | | | \$13,436,000 |
| | | | | ¥10,700,000 |

City of Bruceville-Eddy NEW WASTEWATER SYSTEM - USDA RURAL DEVELOPMENT ENGINEER'S PRELIMINARY OPINION OF PROBABLE COST

MINIMUM TOTAL ESTIMATED PROJECT COST:

\$13,436,000

City Optional Bid Items:

| | Customer Private Property Service Work Residential Grinder Pump & Service Line in Private | | | | |
|---|--|--------|----|------------|-------------|
| | Property | 14 | EA | \$4,000.00 | \$56,000 |
| : | 2 Service Line in Private Property (12.7 miles) 3 Service Connection to Include 2-Way Cleanout, Cap | 67,250 | LF | \$20.00 | \$1,345,000 |
| | OSSF in Private Property | 543 | EA | \$500.00 | \$271,500 |
| 4 | Decommission OSSF in Private Property | 575 | EA | \$500.00 | \$287,500 |
| | Estimated Customer Private Property Service Work | | | | \$1,960,000 |
| 1 | Street Rehabilitation Options: Option 1: Street Rehabilitation including, Full Depth Recycle 6", Street Base Cement Added & Remix, 1-1/2" HMAC Type D Paving (13.25 miles) | 70,000 | LF | \$39.00 | \$2,730,000 |
| 2 | Option 2: Street Rehabilitation including, Full Depth Recycle 6", 1-1/2" HMAC Type D Paving (13.25 miles) | 70,000 | LF | \$31.00 | \$2,170,000 |
| 3 | Option 3: Street Rehabilitation including, Full Depth Recycle 6", 2 course surface treatment (13.25 miles) | 70,000 | LF | \$22.00 | \$1,540,000 |
| 4 | Option 4: Street Rehabilitation including, Full Depth Recycle 6", 1 course surface treatment (13.25 miles) | 70,000 | LF | \$17.00 | \$1,190,000 |
| | | | | | |

Borrower Name:

CITY OF BRUCEVILLE - EDDY (SEWER SYSTEM)

INITIAL LOAN & GRANT OBLIGATED 9-27-2017

County:

McLennan

March 4, 2020

Total Project Funding:

\$10,181,000

Total Loan:

\$5,861,000

Date:

Interest Rate

2.625% Number of Years:

38

Type of Payment:

Semi-Annual

Total Customers

(595 residential; 40 other)

635

\$0

Total Grant

\$4,320,000

Borrower's Contribution:

\$5,861,000 X

41.91

Loan Amount:

(Amortization Factor)

\$

245,635 Annual Debt Service this loan

Plus Existing Loans

\$0

| | | | | \$245,635 | TOTAL ANNUAL DEBT SERVICE |
|-------------|---|--|--|---|---|
| \$245,635 | / (# of Customers) | 635 | = | \$386.83 | Per user per year |
| \$386.83 | / 12 months | | = | \$32.24 | Per user per month |
| \$24,563.45 | 1 | 635 | = | \$38.68 | Per user per year |
| \$38.68 | / 12 months | | = | \$3.22 | Per user per month |
| 26,133.00 | 1 | 635 | = | \$41.15 | Per user per year |
| \$41.15 | / 12 months | | = | \$3.43 | Per user per month |
| \$130,500 | 1 | 635 | = | \$205.51 | Per user per year |
| \$205.51 | / 12 months | | = | \$17.13 | Per user per month |
| | \$386.83 \$24,563.45 \$38.68 \$26,133.00 \$41.15 \$130,500 | (# of Customers) \$386.83 / 12 months \$24,563.45 / \$38.68 / 12 months \$26,133.00 / \$41.15 / 12 months \$130,500 / \$205.51 / 12 months | (# of Customers) \$386.83 / 12 months \$24,563.45 / | (# of Customers) \$386.83 / 12 months | (# of Customers) \$386.83 / 12 months |

^{**} City may request a waiver of this reserve account requirement in writing

DEDT 050 #05 DED 11050 DED 140151

| DEBT SERVICE PER USER PER MONTH | \$32.24 |
|-----------------------------------|---------|
| RESERVE PER USER PER MONTH | \$3.22 |
| SLA PER USER PER MONTH | \$3.43 |
| O&M PER USER PER MONTH | \$17.13 |
| | |
| TOTAL AVERAGE USER COST PER MONTH | \$56.01 |

Borrower Name:

CITY OF BRUCEVILLE - EDDY (SEWER SYSTEM)

UPDATED COST ESTIMATE ON ORIGINALLY FUNDED PROJECT

County:

McLennan

Date:

March 5, 2020

Total Project Funding:

\$13,436,000

Total Proposed Loan:

\$3,255,000

Interest Rate *

2.250% Number of Years:

38

Type of Payment:

Semi-Annual

Total Connections

(595 residential; 40 other) **Borrower's Contribution:** 635

\$0

Total Grant

\$4,320,000

\$

128,345 Annual Debt Service this loan

Proposed Loan: \$3,255,000 X

39.43

(Amortization Factor)

\$245,635

Plus Existing Loans

(approved USDA loan of \$5,861,000)

\$373,980 TOTAL ANNUAL DEBT SERVICE

Debt Service

\$373,980

635

=

\$588.94 Per user per year

(Principal & Interest)

(# of Customers)

Reserves **

\$37,397.97 /

635

=

\$58.89 Per user per year

\$49.08 Per user per month

\$58.89 / 12 months

\$588.94 / 12 months

\$4.91 Per user per month

Short-Lived

\$26,133.00 /

635

\$41.15 Per user per year

Asset Reserves

\$41.15 / 12 months

\$3.43 Per user per month

Oper. & Maint.

\$130,500 /

635

\$205.51 Per user per year

\$205.51 / 12 months

\$17.13 Per user per month

^{**} City may request a waiver of this reserve account requirement in writing

| DEBT SERVICE PER USER PER MONTH | \$49.08 |
|-----------------------------------|---------|
| RESERVE PER USER PER MONTH | \$4.91 |
| SLA PER USER PER MONTH | \$3.43 |
| O&M PER USER PER MONTH | \$17.13 |
| | |
| TOTAL AVERAGE USER COST PER MONTH | \$74.54 |

^{*} Interest rate in effect until 3-31-2020

Borrower Name:

CITY OF BRUCEVILLE - EDDY (SEWER SYSTEM)

UPDATED COSTS + PRIVATE PROPERTY SERVICE WORK

County:

McLennan

Date:

March 5, 2020

Total Project Funding:

\$15,396,000

Total Proposed Loan: \$5,215,000

Interest Rate *

2.250% Number of Years:

38

Type of Payment:

Semi-Annual

Total Connections

(595 residential; 40 other)

Borrower's Contribution:

635

\$0

Total Grant

\$4,320,000

Proposed Loan: \$5,215,000 X

39.43

205,627 Annual Debt Service this loan

(Amortization Factor)

Plus Existing Loans

(approved USDA loan of \$5,861,000)

\$245,635

\$451,262 TOTAL ANNUAL DEBT SERVICE

=

=

=

Debt Service

\$451,262 /

635

\$710.65 Per user per year

(Principal & Interest)

(# of Connections)

\$710.65 / 12 months

\$59.22 Per user per month

\$45,126.25 /

635

\$71.06 Per user per year

\$71.06 / 12 months

\$41.15 / 12 months

\$5.92 Per user per month

Short-Lived

Asset Reserves

Reserves **

\$26,133.00 /

635

\$41.15 Per user per year

\$3.43 Per user per month

Oper. & Maint.

\$130,500 /

635

\$205.51 Per user per year

\$205.51 / 12 months

=

\$17.13 Per user per month

^{**} City may request a waiver of this reserve account requirement in writing

| DEBT SERVICE PER USER PER MONTH | \$59.22 |
|-----------------------------------|---------------|
| RESERVE PER USER PER MONTH | \$5.92 |
| SLA PER USER PER MONTH | \$3.43 |
| O&M PER USER PER MONTH | \$17.13 |
| TOTAL AVERAGE USER COST PER MONTH | 605 70 |
| IOTAL AVERAGE USER COST PER MONTH | \$85.70 |

^{*} Interest rate in effect until 3-31-2020

Borrower Name:

CITY OF BRUCEVILLE - EDDY (SEWER SYSTEM)

UPDATED COSTS + PRIVATE PROPERTY SERVICE WORK + STREET REHAB OPTION 3

County:

McLennan

Date:

March 5, 2020

Total Project Funding:

\$16,936,000

Interest Rate *

Total Proposed Loan: \$6,755,000

Semi-Annual

2.250% Number of Years:

38

Type of Payment:

Total Connections

(595 residential; 40 other)

635

Total Grant

\$4,320,000

Borrower's Contribution:

\$0

Proposed Loan: \$6,755,000 X

39.43

\$

266,350 Annual Debt Service this loan

(Amortization Factor)

Plus Existing Loans

\$245,635

(approved USDA loan of \$5,861,000)

\$511,985 TOTAL ANNUAL DEBT SERVICE

| | admilios densinage con con a unitros | | | NEWSHIELD RESIDENCE SERVICE SE | NEISTANEIN DAVERS DAVE | |
|---------------------------------------|--------------------------------------|-----------------------|-----|--|------------------------|--------------------|
| Debt Service (Principal & Interest | \$511,985 t) | / (# of Customers) | 635 | = | \$806.28 | Per user per year |
| | \$806.28 | / 12 months | | = | \$67.19 | Per user per month |
| Reserves ** | 551,198.47 | 1 | 635 | = | \$80.63 | Per user per year |
| | \$80.63 | / 12 months | | = | \$6.72 | Per user per month |
| | | | | | | |

Short-Lived **Asset Reserves** \$26,133.00 /

635

\$41.15 Per user per year \$3.43 Per user per month

Oper. & Maint.

\$130,500 /

635

\$205.51 Per user per year

\$205.51 / 12 months

\$41.15 / 12 months

\$17.13 Per user per month

^{**} City may request a waiver of this reserve account requirement in writing

| DEBT SERVICE PER USER PER MONTH | \$67.19 |
|-----------------------------------|---------|
| RESERVE PER USER PER MONTH | \$6.72 |
| SLA PER USER PER MONTH | \$3.43 |
| O&M PER USER PER MONTH | \$17.13 |
| | |
| TOTAL AVERAGE USER COST PER MONTH | \$94.46 |

^{*} Interest rate in effect until 3-31-2020



WATER & WASTE DISPOSAL ITEMS REQUIED TO REQUEST ADDITIONAL FUNDS

- 1. Standard Form 424 "Application for Federal Assistance", together with:
 - a. 424C Budget Information Construction Programs
 - b. 424D Assurances Construction Programs
- 2. Form RD 400-1 "Equal Opportunity Agreement"
- 3. Form RD 400-4 "Assurance Agreement"
- 4. Form AD 1047 "Certification Regarding Debarment, Suspension, and Other Responsibility Matters Primary Covered Transactions" executed by applicant
- 5. Form AD 1049 "Certification Regarding Drug-Free Workplace Requirements"
- 6. Form RD 1910-11 "Applicant Certification, Federal Collection Policies"
- 7. RD Instruction 1940-Q, Exhibit A-1, "Certification for Contracts, Grants and Loans"
- 8. Standard Form LLL "Disclosure of Lobbying Activities" (if applicable)
- 9. Amended Owner/Engineer Agreement EJCDC E-500 Standard Form of Agreement between Owner & Engineer (2014), modified in accordance with RUS Bulletin 1780-26 "Guidance for the Use of Engineers Joint Contract Documents Committee (EJCDC) Documents on Water and Waste Disposal Projects with RUS Financial Assistance" and RUS Bulletin 1780-35, "Guidance for the Implementation of American Iron and Steel (AIS) Requirements with Rural Utilities Service (RUS) Financial Assistance."
- 10. Form AD 1048 "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion Lower Tier Covered Transaction" executed by project engineer
- **11. Audit / Financial Statements -** for the prior 2 fiscal years, and a current (not more than 90 days old) Balance Sheet and Statement of Income and Expenses for General Fund and Water Operations Fund
- **12. Copies of existing debt instruments** for NON-Rural Development debt only (copy of bond ordinance for wastewater plant loan through
- 13. Breakdown of active meters and flow data see page 3 for further information on this requirement
- 14. List of current council members with Positions & Terms of each appointment
- **15. Proposed budget and utility rate schedule/ordinance** & documentation of other income sources to be used to repay the proposed loan (e.g., taxes, assessments, etc.)