# 2018 WATER SYSTEM IMPROVEMENTS METER REPLACEMENT

# PRELIMINARY ENGINEERING REPORT

**FOR** 

# ROWAN WATER, INC.

December, 2018



222 East Main Street, Ste. 1 • Georgetown, KY 40324



# ROWAN WATER, INC. Preliminary Engineering Report 2018 Water System Improvements – Meter Replacements

### 1. PROJECT PLANNING

### a. Location

Rowan Water, Inc. (RWI) is a water association that serves all of Rowan County, outside the city limits of Morehead, the northern portion of Elliott County, the western tip of Carter County, the northern edge of Morgan County and the southern portion of Fleming County.

This project is mostly defined by replacing all conventional meters' system wide with new radio read meters. A system map is attached to this Preliminary Engineering Report as **Appendix A**.

### b. Environmental Resources Present

Due to the fact that there will be no excavation on this project, and the project will consist of removing existing meters from the meter box and replacing them with the new more technologically advanced radio read meters, Rowan Water, Inc. will seek a categorical exclusion for this project.

### c. Population Trends

The 2010 population for Rowan County was 23,333. The Kentucky State Data Center projects the County population to grow continuously over the next thirty years. By 2040 the population is estimated to be 28,982. The projections from the Kentucky State Data Center for the next twenty years are:

| 2020   | 2025   | 2030   | 2035   | 2040   |
|--------|--------|--------|--------|--------|
| 24,879 | 25,809 | 26,953 | 28,023 | 28,982 |

In 1987 RWI had a customer base of approximately 2,022 customers. The customers have grown to an average of 7,000 today. The majority of the customers are residential with the balance being commercial customers. Rowan Water has two wholesale customers, Fleming County Water Association and the City of Olive Hill.

### d. Community Engagement

Rowan Water, Inc. monthly board meetings are open to the public for open dialogue with the community. This project will also have an advertised public meeting that will encourage participation by the community for feedback on the project. This public meeting will be able to address concerns, funding and revenue strategies, and to address the needs of the project for public benefit.

### 2. EXISTING FACILITIES

### a. Location Map

A system map is attached in Appendix A.

### b. History

RWI was established in 1968. Major expansions and renovations of its system were done in 1991, 1992, 1998, 2001, 2004, 2007, 2012, and 2016. RWI purchases 100 percent of its water from the Morehead Utility Plant Board. All expansions and renovations were on its distribution system.

### c. Condition of Existing Facilities

The existing system is in relatively good shape. Most recently Rowan Water, Inc. replaced an aging standpipe tank on 3-C Trail with a new 150,000-gallon elevated tank. Rehabilitation work was also completed on the following tanks: Sawmill, Rock Fork, Pond Lick, Frank Johnson and Maxey Flats. A new pump station replaced an aging facility on 3-C Trail as well as updates to the Old Hilda and Sawmill pump stations. Therefore, most all of the water storage facilities and pump stations have been updated. The one area that is aged and in need of updates or repairs are the water meters.

The pipe in the distribution system is in fairly good order as RWI reports a water loss of between 15 and 20 percent. This despite over 600 miles of water main in five counties serving almost 7,000 customers. Most of this pipe is in a mountainous and rocky terrain.

### d. Financial Status of any Existing Facilities

RWI submits an annual audit and PSC report to Rural Development and the Kentucky Public Service Commission.

Information regarding current rate structure, O&M cost, and user data will be compiled in the Summary Addendum to the PER.

### e. Water/Energy/Waste Audits

RWI has not had a water energy audit completed, but the new pump station on 3-C Trail and the addition of Variable Frequency Drives to the existing Old Hilda and Sawmill pump stations have provided energy cost savings due to the way the VFD's ramp up and down with the demand for service. The installation of drive-by meters will reduce the gasoline consumption of meter reading vehicles dramatically, as well as reducing the wear and tear on company vehicles.

### 3. NEED FOR THE PROJECT

### a. Health, Sanitation, and Security

The need for the new radio read meters is to reduce liability, increase efficiency, and continue to work toward a more reliable system. Liability is a huge risk for all utilities in this day and age, and this will remove meter readers from having to pull on and off busy

roads every month to manually read meters. It reduces threats to the meter reading personnel from vicious dogs, climbing fences, inclement weather and risk of not properly reinstalling the meter box lid after manual readings. Radio read meters will also allow Rowan Water, Inc. to put less personnel on reading meters and more personnel on reducing water loss.

### b. Aging Infrastructure

Most all of the tanks and pump stations have been rehabilitated or updated in the last few years and the distribution system serves all of the customers in the county that are remotely feasible. However, this project will allow Rowan Water, Inc. to replace the one thing that needs attention and that is to replace its aging water meters. Most all aging meters read at less than 95% accuracy. Historically, meters are found in systems that have read at considerably lower levels. Simply put, installing new meters should instantly reduce water loss as the new meters are consistently accurate and the savings from inaccurate (low) meter readings help to make payments on this investment.

### c. Reasonable Growth

Rowan Water has seen a 244 percent growth in customers over the past 30 years. With the population projected to continue to increase over the next 20 years, it is reasonable to expect that Rowan Water's customer base will continue to increase making the drive by radio read system even more valuable in its efficiency.

### 4. ALTERNATIVES CONSIDERED

The only alternative considered to the drive by radio read meters would be the installation of a land-based radio read meter system. The land-based system is the latest in technology that allows the utility to read all meters from the office. This system is relatively new but is cost prohibitive for Rowan Water's application at this time. The drawback is the terrain in Rowan county and the surrounding counties is considered mountainous and the land-based system would require numerous antennas and repeaters to receive reliable signals to the office. In addition, the meters are very expensive. This option is not financially feasible.

### 5. SELECTION OF AN ALTERNATIVE

There is only one alternative and that is to install the new drive by radio read meters. As described in ALTERNATIVES CONSIDERED the cost of the land-based system is not feasible with the requirements of numerous antennas and repeaters to navigate the mountainous terrain. The drive by radio read meters will provide updated meter accuracy by replacing aged meters, and reduce liabilities to Rowan Water personnel and the general public as well.

### 6. PROPOSED PROJECT (RECOMMENDED ALTERNATIVE)

### a. Preliminary Project Design

New drive-by radio read system will include replacing approximately 6,000 unreliable meters system wide with new well tested technology that allows the utility to increase accuracy in their billing and reduce liability issues with company personnel and the general public. Efforts shall be made to insure contractor is aware of the locations of all meters within the system for a timely and efficient change out. If contingencies are available at the end of construction, a new meter reading truck outfitted with the lap tops for reading is also requested.

### b. Project Schedule

- 1. Secure Letter of Conditions from Rural Development in March, 2019.
- 2. Land Purchases and Easements are not required.
- 3. Division of Water Submittal is not required.
- 4. Advertise for Bids May, 2019
- 5. Contract Award/Begin Construction in August, 2019
- 6. Substantial Completion January, 2020
- 7. Final Completion February, 2020

### c. Permit Requirements

- 1. Kentucky Division of Water Approval N/A
- 2. Rowan County Fiscal Court N/A
- 3. Kentucky Department of Highways N/A

### d. Total Project Cost Estimate

The total project cost Estimate is \$1,722,000

See attached detailed Engineer's Estimate in Appendix B.

- e. Annual Operating Budget All items below will be covered in the Summary Addendum.
  - i) Income
  - ii) Annual O&M Costs
  - iii) Debt Repayments
  - iv) Reserves

### 7. CONCLUSIONS AND RECOMMENDATIONS

Rowan Water, Inc. will replace approximately 6,000 of their 7,000 meters system wide. Approximately 1,000 radio read meters have been installed in recent projects allowing Rowan Water, Inc. to experience this technology and the benefits thereof first hand. The 6,000 old and unreliable meters will be replaced with the same radio read meters that they have currently in the system, so they can maintain the consistency with which they are accustomed. Due to the magnitude of the number of meters to be replaced, Rowan Water, Inc. will bid out the purchase and installation of the meters over a six-month period. The start-up package shall also include training and software.

# **APPENDIX A**



# WATER DISTRIBUTION SYSTEN

# **APPENDIX B**





ROWAN WATER, INC.

Project:

METER REPLACEMENT

Date:

11/2/2018

|  | Con                     | struction Costs   |      |           |        |      |           |
|--|-------------------------|-------------------|------|-----------|--------|------|-----------|
| Item #   | Description             | Quantity          | Unit | Unit Cost |        |      | Item Cost |
| 1  | METER REPLACEMENTS      | 6000              | EA   | \$        | 200    | \$   | 1,200,000 |
| 2  | LABOR                   | 6000              | EA   | \$        | 40     | \$   | 240,000   |
|  |                         |                   |      |           |        | 4 11 |           |
|  |                         |                   |      |           |        |      |           |
|  |                         |                   |      |           |        |      |           |
|  |                         |                   |      |           |        |      |           |
|  |                         |                   |      |           |        |      |           |
|  |                         |                   |      |           |        |      |           |
|  |                         |                   |      |           |        |      |           |
|  |                         |                   |      |           |        |      |           |
|  |                         |                   |      |           |        |      |           |
| _ 4  |                         |                   |      |           |        |      |           |
| <u> </u>                                       |                         |                   |      |           |        |      |           |
| Total - Co                                     | onstruction Cost        |                   |      | <u> </u>  |        | \$   | 1,440,000 |
|  | Non-Co                  | onstruction Costs |      |           |        |      |           |
| Continger                                      | ncies                   |                   |      |           |        | \$   | 140,000   |
| Administr                                      | ative Expenses/Interest | ***               |      |           |        |      | 100       |
| Legal Exp                                      | penses                  |                   |      | :         |        | \$   | 15,000    |
| Land, App                                      | oraisals, Easements     |                   |      |           |        |      |           |
| Planning                                       |                         |                   |      |           |        | *    |           |
| Engineeri                                      | ng Fees - Design        | *****             |      |           |        | \$   | 94,000    |
| Engineering Fees - Construction Administration |                         |                   |      |           |        |      | 23,000    |
| Engineeri                                      | ng Fees - Inspection    |                   |      |           |        |      |           |
| Engineeri                                      | ng Fees - Other         |                   |      |           | _* = 1 | \$   | 10,000    |
| Total - No                                     | on-Construction Costs   |                   |      |           |        |      |           |
| Total - P                                      | roject Costs            |                   |      |           |        | \$   | 1,722,000 |

DATED

### SUMMARY ADDENDUM

TO

### PRELIMINARY ENGINEERING REPORT

| DATED March 2019   |
|--|
| FOR  |
| Rowan Water, Inc Meter Replacement Project (Name of Project) |
| APPLICANT CONTACT PERSON Jerry Patrick, Manager              |
| APPLICANT PHONE NUMBER <u>(606) 784-9818</u>                 |
| APPLICANT TAX IDENTIFICATION NUMBER (TIN) 61-0701413         |

# ITEMS IN BOLD ITALIC PRINT ARE APPLICABLE TO SEWER SYSTEMS.

In order to avoid unnecessary delays in application processing, the applicant and its consulting engineer should prepare a summary of the preliminary report in accordance with this Guide.

Please complete the applicable sections of the Summary Addendum. Please note, if water and sewer revenue will both be taken as security for the loan, all user information and characteristics of both utility systems will be needed even though the project will benefit only one utility.

Feasibility reviews and grant determinations may be processed more accurately and more rapidly if the Summary/Addendum is submitted simultaneously with the preliminary engineering report, or as soon thereafter as possible.

### I. GENERAL

A. Proposed Project: Provide a brief description of the proposed project. In addition to this summary, the applicant/engineer should submit a project map of the service area.

The proposed project will replace approximately 6,500 manual read meters with radio read meters. This project will increase the financial efficiency by replacing older meters that are in a state of disrepair and assuring that the meters are correctly measuring water usage.

| 1          | Sewage Treatment:  |           |
|------------|--|-----------|
|            |  |           |
| 1.         | Type   | _         |
| 2.         | Method of Sludge Disposal  |           |
| 3.         | Cost per 1,000 gallons if sewage treatment is contracted:            |           |
|            | <i>S</i>   |           |
| 1.         | Date Constructed   |           |
| <b>3</b> . | Treatment Capacity of Sewage Treatment Plant                         | _         |
| <b>C.</b>  | Type of Sewage Collector System (Describe)                           |           |
| Э.         | Number and Capacity of Sewage Lift Stations                          |           |
| Z.         | Sewage Collection System:  |           |
|            | Lineal Feet of Collector Lines, by size 6" 8"                        |           |
|            | 10", Larger  |           |
|            | Date(s) Constructed  |           |
|            | Conditions of Existing System: Briefly describe the conditions and s | uitabilit |
|            | continued use of facility now owned by the applicant. Include any m  |           |

| A. | Water Source: Describe adequacy of source (quality and quantity). Include an           |  |  |  |  |  |  |  |  |
|----|--|--|--|--|--|--|--|--|--|
|    | explanation of raw water source, raw water intake structure, treatment plant capacity, |  |  |  |  |  |  |  |  |
|    | and current level of production (WTP). Also describe the adequacy of Water Purchase    |  |  |  |  |  |  |  |  |
|    | Contract if applicable.  |  |  |  |  |  |  |  |  |
|    | Rowan Water Inc. (RWI), purchases water from the Morehead Utility Plant Board. A new   |  |  |  |  |  |  |  |  |
|    | water purchase contract was signed in 2001 and is valid for 40 years. The contract     |  |  |  |  |  |  |  |  |
|    | allows RWI to purchase up to 2.7 MGD capacity of the plant capacity which is currently |  |  |  |  |  |  |  |  |
|    | 8.5 MGD. RWI's water purchases average 1.3 to 1.7 MGD.                                 |  |  |  |  |  |  |  |  |
|    | If the applicant purchases water:  |  |  |  |  |  |  |  |  |
|    | Seller(s):   |  |  |  |  |  |  |  |  |
|    | 1. Morehead Utility Plant Board  |  |  |  |  |  |  |  |  |
|    | Price/1,000 gallons:   |  |  |  |  |  |  |  |  |
|    | 1\$1.398/1000 plus \$25,000/month (debt service)                                       |  |  |  |  |  |  |  |  |
|    | Present Estimated Market Value of Existing System: \$10,400,000                        |  |  |  |  |  |  |  |  |
|    | Water Storage:  Type: Ground Storage Tank  |  |  |  |  |  |  |  |  |
|    | Type: Ground Storage Tank X Elevated Tank Standpipe Other                              |  |  |  |  |  |  |  |  |
|    |  |  |  |  |  |  |  |  |  |
|    | Number of Storage Structures   |  |  |  |  |  |  |  |  |
|    | Date Storage Tank(s) Constructed   |  |  |  |  |  |  |  |  |
|    | 1010 & arter   |  |  |  |  |  |  |  |  |
| C. | Water Distribution System:   |  |  |  |  |  |  |  |  |
|    | Pipe Material PVC & small amount of AC   |  |  |  |  |  |  |  |  |
| ]  | Lineal Feet of Pipe: 2" & 3" Diameter 792,500 4" 728,654                               |  |  |  |  |  |  |  |  |
|    | 6" 8" 58,360   |  |  |  |  |  |  |  |  |
|    | 10"63,88812"8,448  |  |  |  |  |  |  |  |  |
|    | 16"2,000   |  |  |  |  |  |  |  |  |
| A  | All pipe footage is an estimate only.  |  |  |  |  |  |  |  |  |
| I  | Date(s) Water Lines Constructed1970 - present  |  |  |  |  |  |  |  |  |
|    | Number and Capacity of Pump Station(s) 10: 70 gpm to 300 gpm                           |  |  |  |  |  |  |  |  |

## D. Condition of Existing Water System:

Briefly describe the condition and suitability for continued use of facility now owned by the applicant. Include any major renovation that will be needed within five to ten years.

Rowan Water, Inc. continually develops projects that maintain and upgrade the water system resulting in a system that is in very good condition.

| E. | Percentage | of Water Lo | oss Existing | System | 15% |  |
|----|------------|-------------|--------------|--------|-----|--|
|----|------------|-------------|--------------|--------|-----|--|

# IV. EXISTING LONG-TERM INDEBTEDNESS

### A. List of Bonds and Notes:

| Date<br>of Issue  | Bond/Note<br><u>Holder</u> | Principal<br><u>Balance</u> | Payment<br><u>Date</u> | Bond Type Water/Sewer*  | Amount on Deposit in Reserve Account |
|-------------------|----------------------------|-----------------------------|------------------------|-------------------------|--------------------------------------|
|                   |                            |                             |                        |                         |                                      |
| <u>1991 Issue</u> | USDA RD                    | <u>\$760,680</u>            | June/Dec               | 100 % 5                 | .00 % \$                             |
| <u>1992 Issue</u> | <u>USDA RD</u>             | <u>\$237,417</u>            | June/Dec               | 100 % _5                | .00 % \$                             |
| <u>1998 Issue</u> | <u>USDA RD</u>             | \$912.567                   | June/Dec               | 100 % 4.                | .50 % \$                             |
| <u>2001 Issue</u> | USDA RD                    | \$281,951                   | June/Dec               | <u>100</u> % <u>4</u> . | 50 % \$                              |
| <u>2004 Issue</u> | <u>USDA RD</u>             | \$406,519                   | June/Dec               | <u>100</u> % <u>4</u> . | <u>50</u> % \$                       |
| 2004 Issue        | USDA RD                    | \$179,886                   | June/Dec               | <u>100 % 4.</u>         | 50 % \$                              |
| <u>2007 Issue</u> | USDA RD                    | \$537,106                   | June/Dec               | <u>100</u> % <u>4.</u>  | 125 % \$                             |
| <u>2012 Issue</u> | USDA RD                    | \$887,222                   | June/Dec               | <u>100</u> % 2.         | 75 % \$                              |
| <u>2012 Issue</u> | USDA RD                    | \$95,298                    | June/Dec               | <u>100</u> % 2.         | 75% \$                               |
| <u>2017 Issue</u> | USDA RD                    | \$573,209                   | June/Dec               | 100 % <u>2.</u>         | 625 % \$                             |
|                   |                            |                             |                        |                         | \$395,000                            |

<sup>\*</sup> If a combined issue, show attributable portion to each system.

# B. Principal and Interest Payments: (Begin with Next Fiscal Year Payment)

|         |        | PAYMENT   | YEAR: 2019 | PAYMENT   | YEAR: 2020 | PAYMENT YEAR: 2021 |          |
|---------|--------|-----------|------------|-----------|------------|--------------------|----------|
| DATE OF | BOND   | PRINCIPAL | INTEREST   | PRINCIPAL | INTEREST   | PRINCIPAL          | INTEREST |
| ISSUE   | HOLDER | PAYMENT   | PAYMENT    | PAYMENT   | PAYMENT    | PAYMENT            | PAYMENT  |
| 1991    | RD     | 36,400    | 38,700     | 38,200    | 36,900     |                    | 36,100   |
| 1992    | RD     | 11,400    | 11,000     | 11,900    | 10,400     | 12,400             | 9,800    |
| 1998    | RD     | 28,900    | 37,500     | 30,200    | 36,200     | 31,500             | 34,900   |
| 2001    | RD     | 7,300     | 12,000     | 7,700     | 11,700     | 8,100              | 11,400   |
| 2004    | RD     | 8,500     | 17,100     | 8,900     | 16,700     | 9,300              | 16,300   |
| 2004    | RD     | 4,000     | 7,400      | 4,100     | 7,200      | 4,200              | 7,000    |
| 2007    | RD     | 8,700     | 21,900     | 9,100     | 21,600     | 9,500              | 21,300   |
| 2012    | RD     | 14,900    | 23,500     | 15,300    | 23,120     | 15,700             | 22,740   |
| 2012    | RD     | 1,600     | 2,530      | 1,640     | 2,490      | 1,680              | 2,450    |
| 2017    | RD     | 16,400    | 28,600     | 16,800    | 28,200     | 17,250             | 27,750   |
| TOTAL   |        | 138,100   | 200,230    | 143,840   | 194,510    | 148,630            | 189,740  |

# V. EXISTING SHORT-TERM INDEBTEDNESS

A. List of All Short Term Debts: (Do Not Show Any Debt Listed in Paragraph IV Above)

| Lender<br>or Lesso | 41 15540             | Principal<br>Balance | Purpose<br>(Water and/<br>or Sewer) | Payment<br><u>Date</u> | Principal<br>& Interest<br>Payment (P&I) | Date to<br>Be Paid<br><u>In Full</u> |
|--------------------|----------------------|----------------------|-------------------------------------|------------------------|--|--------------------------------------|
|                    |                      |                      |                                     |                        |  |                                      |
|                    |                      |                      |                                     |                        |  | 21                                   |
| VI. <u>L</u>       | AND AND RIGHTS       | - EXISTIN            | G SYSTEM(S                          | )                      |  |                                      |
| N                  | umber of Treatment I | Plant Sites:         | Water                               |                        | Sewer                                    |                                      |
| N                  | umber of Storage Tar | ık Sites             | Water                               |                        | Sewer                                    |                                      |
| N                  | umber of Pump Statio | ons:                 | Water                               | 10                     | _Sewer                                   |                                      |
| To                 | otal Acreage:        |                      | Water                               | 5 Acres                | Sewer                                    | Acres                                |
| Pı                 | ırchase Price:       |                      | Water \$                            |                        | Sewer §                                  |                                      |

# VII. NUMBER OF EXISTING USERS

|       |   | Water                                   | Sewer                    |
|-------|---|---|--------------------------|
|       | Residential (In Town) *   | 6,424                                   |                          |
|       | Residential (Out of Town) *   |   |                          |
|       | Non-Residential (In Town)   | 694                                     |                          |
|       | Non-Residential (Out of Town) - wholesale customer  | 2                                       |                          |
|       | Total   | 7,120                                   |                          |
|       | Number to Total Potential Users Living in the Service Area  | 7,450                                   |                          |
|       | *Note: Residential Users: Classify by type of user regar used. This classification should include those me residence. | dless of quantity<br>eters serving indi | of water<br>vidual rural |
| VIII. | CURRENT WATER AND SEWER CONNECTION FEES METER CONNECTION  | FOR EACH SIZ                            | E WATER                  |
|       | Meter Size Water Connection Fee   | Sewer Connect                           | tion Fee                 |
|       | 5/8" x 3/4"       \$ 800.00 (Residential)         1"       \$ Actual Cost plus 15% overhead char                      | <u>\$</u>                               |                          |
| IX.   | SEWER RATES - EXISTING SYSTEM   | I/A                                     |                          |
|       | Percentage of Water Bill % Minimum Charge   | 2 \$                                    |                          |
|       | Other: (If Charge Not Based on Water Bill)  | · · · · · · · · · · · · · · · · · · ·   |                          |
|       | Date This Rate Went Into Effect   | <u> </u>                                |                          |
| X.    | WATER RATES - EXISTING SYSTEM   |   |                          |
|       | Existing Rate Schedule: See attached Sheet  |   |                          |
|       | Date This Rate Went Into Effect: August 3, 2017   |   |                          |

XI. ANALYSIS OF ACTUAL WATER USAGE - EXISTING SYSTEM - 12 MONTH PERIOD

For Period 01/01/2017 to 12/31/2017.

Commercial

| •                    |              |  | Resid  | dential | Comr   | mercial |
|----------------------|--------------|--|--------|---------|--------|---------|
| MONTHLY WATER L      | <u>JSAGE</u> |  | No. of | Usage   | No. of | Usage   |
|                      |              | rage   | Users  | 1,000   | Users  | 1,000   |
|                      | Residential  | Commercial   |        |         | 10     |         |
| 0 - 1,000 Gal.       | 900          | 900  | 973    | 876     | 59     | 53      |
| 1,001 - 2,000 Gal.   | 1,650        | 1,650  | 925    | 1,526   | 27     | 45      |
| 2,001 - 3,000 Gal.   | 2,300        | 2,800  | 1094   | 2,516   | 19     | 53      |
| 3,001 - 4,000 Gal.   | 3,000        | 3,000  | 998    | 2,994   | 12     | 36      |
| 4,001 - 5,000 Gal.   | 4,050        | 4,050  | 767    | 3,106   | 12     | 49      |
| 5,001 - 6,000 Gal.   | 5,200        | 5,200  | 521    | 2,709   | 7      | 36      |
| 6,001 - 7,000 Gal.   | 6,200        | 6,300  | 335    | 2,077   | 2      | 13      |
| 7,001 - 8,000 Gal.   | 7,400        | 7,400  | 221    | 1,635   | 2      | 15      |
| 8,001 - 9,000 Gal.   | 8,500        |  | 144    | 1,224   |        |         |
| 9,001 - 10,000 Gal.  | 9,400        |  | 97     | 912     |        |         |
| 10,001 - 11,000 Gal. | 10,300       |  | 69     | 711     |        |         |
| 11,001 - 12,000 Gal. | 11,400       |  | 50     | 570     |        |         |
| 12,001 - 13,000 Gal. | 12,300       |  | 33     | 406     |        |         |
| 13,001 - 14,000 Gal. | 13,400       |  | 23     | 308     |        |         |
| 14,001 - 15,000 Gal. | 14,300       |  | 20     | 286     |        |         |
| 15,001 - 16,000 Gal. | 15,200       |  | 16     | 243     |        |         |
| 16,001 - 17,000 Gal. | 16,300       |  | 13     | 212     |        |         |
| 17,001 - 18,000 Gal. | 17,200       |  | 10     | 172     |        |         |
| 18,001 - 19,000 Gal. | 18,200       |  | 10     | 182     |        |         |
| 19,001 - 20,000 Gal. | 19,300       |  | 7      | 135     |        |         |
| 20,000 & Over        | 45,000       |  | 25     | 1,125   |        |         |
|                      | Subtotal     |  | 6351   | 23,926  | 140    | 299     |
| Average Mo           |              |  | 0007   | 3,767   | 140    | 2,138   |
| 3/4" meter           | ,            |  |        | 0,707   |        | 2,130   |
|                      | Residential  | Commercial   |        |         |        |         |
| • "                  | 13700        | 30,750   | 44     | 454     | 40     |         |
| :                    | -            | 30,730   | 11     | 151     | 12     | 369     |
|                      | Subtotal     |  | 11     | 151     | 12     | 369     |
| <u>1" meter</u>      | 47000        |  |        |         |        |         |
| 0-20,000 Gal.        | 17800        |  | 16     | 285     | 0      | 0       |
| 20,000 & Over        | 23850        |  | 0      | 0       | 14     | 334     |
|                      | Subtotal     |  | 16     | 285     | 14     | 334     |
| <u>1.5" meter</u>    |              |  |        |         |        |         |
|                      |              | 4,100  |        |         | 2      | 8       |
| S                    | Subtotal     |  | 0      | 0       | 2      | 8       |
| 2" meter             | -            | And the same of th |        |         | 100    |         |
| R                    | esidential ( | Commercial   |        |         |        |         |
|                      | 37700        | 62,700   | 19     | 716     | 14     | 878     |
| S                    | Subtotal     | · · · · · · · · · · · · · · · · · · ·  | 19     | 716     | 14     | 878     |
| Wholesale Customers  | =            |  |        |         | 7.7    | 070     |
| Fleming Cty          | WA           | 158,300  |        |         | 3      | 046 667 |
| City of Olive        |              | 10,100   |        |         | 2      | 916.557 |
| Sandy Hook           |              | 70,100   |        |         | 1      | 38.986  |
|                      |              | Subtotal —   |        |         | 6      | 055 543 |
|                      |              |  |        |         | 0      | 955.543 |
|                      | ī            | otals  | 6397   | 25,078  | 188    | 2,844   |
|                      | =            |  |        |         |        | 2,077   |

# XV. FACILITY CHARACTERISTICS OF PROPOSED WATER SYSTEM

A. Water Source: Describe adequacy of source (quality and quantity). Include an explanation of raw water source, raw water intake structure, treatment plant capacity, and current level of production (WTP). Also describe the adequacy of Water Purchase Contract if applicable.

| W         | ater Supply described in Section                 | III-A. |        |             |       |
|-----------|--|--------|--------|-------------|-------|
| B.        | Water Storage:                                   |        |        |             |       |
|           | Type: Ground Storage Tank                        |        | X      | Elevated Ta | ink   |
|           | Standpipe  |        |        |             |       |
|           | Number of Storage Structures _                   |        |        |             |       |
|           | Total Storage Volume Capacity                    |        | 951,   | 000         |       |
| C.        | Water Distribution System: Pipe Material PVC, AC |        |        |             |       |
|           | Lineal Feet of Pipe: 3" Diamete                  | er     |        | 4"          |       |
|           |  |        |        | 8"          |       |
|           |  |        |        | 12"         |       |
|           | Number and Capacity of Pump                      |        |        |             |       |
| <u>LA</u> | ND AND RIGHTS - PROPOSE                          | D WA   | TER SY | STEM        |       |
| Nui       | mber of Treatment Plant Sites                    |        | _0     |             |       |
| Nui       | mber of Pump Sites                               |        |        |             |       |
| Nui       | mber of Other Sites                              |        |        |             |       |
| Γot       | al Acreage                                       |        |        |             | Acres |
| Pur       | chase Price                                      | \$     |        |             |       |

XVI.

# XIX.NUMBER OF NEW WATER USERS

| Residential (In Town) *                                    | 0 |
|--|---|
| Residential (Out of Town) *                                | 0 |
| Non-Residential (In Town)                                  | 0 |
| Non-Residential (Out of Town)                              | 0 |
| Total  | 0 |
| Number to Total Potential Users Living in the Service Area | 0 |

\*Note:

Residential Users: Classify by type of user regardless of quantity of water used. This classification should include those meters serving individual rural residences.

# XX. PROPOSED WATER CONNECTION FEES FOR EACH SIZE WATER METER CONNECTION:

| Meter Size      | Connection Fee |
|-----------------|----------------|
| 5/8" x 3/4"     | \$ No Change   |
| 1 - Inch        | \$ No Change   |
| 1-1/2 Inch      | \$ No Change   |
| <u>2 - Inch</u> | \$ No Change   |
| <u>3 - Inch</u> | \$             |
| 4 - Inch        | \$             |
| 5 - Inch        | \$             |
| 6 - Inch        | \$             |

# XXII. WATER RATES - PROPOSED

A. Proposed Rate Schedule without RUS Grant:

### Rowan Water System Improvements - Meter Replacement Summary Addendum

Funding Option 2 - 40 year Payback Schedule with no Grant First Year of Operation - Year Ending in 2020

|  | First Year of                          | Operation -                           | Year Endi                        | ng in 2020             |                       |
|--|--|---------------------------------------|----------------------------------|------------------------|-----------------------|
| Total Project Cost                                   |  |                                       |                                  |                        | \$1,700,000           |
| Proposed Funding                                     |  | · · · · · · · · · · · · · · · · · · · |                                  |                        |                       |
| RD Grant Funds                                       |  |                                       |                                  |                        | \$0                   |
| Proposed Bond Amou                                   | nt                                     |                                       |                                  |                        | \$1,700,000           |
| Proposed Debt Service                                | re                                     |                                       |                                  |                        |                       |
| RD Loan Annual Debt .<br>40 years a                  | Service (First 2 ye<br>3 25%           | ars of 40 year loa                    | in are deferred                  | 1)                     | \$76,550              |
| RD Loan Debt Service                                 |  | FAnnual Debt Se                       | rvice)                           |                        | \$7,660               |
|  |  | Tota                                  | l New Projec                     | 1 Deb1 Service         | \$84,210              |
| Additional Expenses a                                | & Anticipated De                       | bt Service                            |                                  |                        |                       |
| Estimated Annual O & I<br>Short-Lived Assets         | M Increase                             |                                       |                                  |                        | \$151,088             |
| Short-Lived Assets                                   |  |                                       |                                  |                        | \$33,000              |
|  | Total Addu                             | ional Expenses                        | & Anticipated                    | Debt Service           | \$184,088             |
| Total Annual Increase /7                             |  |                                       |                                  |                        |                       |
| Total Annual Increase (1<br>Balance Available for Co | ozar New Project<br>overage (For Plans | ned & Ongoing in                      | utai Additiona<br>nmediate Proje | u Expenses)<br>ects) . | \$268,298<br>\$54,278 |
|  |  |                                       |                                  |                        |                       |
| 7.1412   |  | otal Additional                       | MINIAI Keve                      | nue Kequired           | <u>\$214,020</u>      |
| Total Additional Ann<br>Total 2015 Billed Wi         |  | ored                                  |                                  |                        | \$214,020             |
|  | - TO THE TERMS                         |                                       | Percentage F                     | Rate Increase          | \$2,784,611<br>8,00°  |
|  |  |                                       |                                  | 7                      | 0.50                  |
|  |  | 2018 Existing                         | Proposed                         |                        |                       |
|  | In Gallons                             | Rates                                 | Rates                            |                        |                       |
| 5/8" Meter   | First 2,000                            | \$18.53                               | \$19.42                          | ]                      |                       |
|  | Next 3,000<br>Next 10,000              | \$7 45<br>\$6 95                      | \$8.17                           |                        |                       |
|  | Next 10,000                            | \$6.80                                | \$7.62<br>\$7.45                 |                        |                       |
|  | Next 10.000                            | \$6 45                                | \$7.07                           |                        | J                     |
|  | Next 10.000                            | \$6.15                                | \$6.74                           |                        |                       |
|  | Next 10,000                            | \$5 95                                | \$6.52                           |                        |                       |
| 3/4" Meter   | First 4.000                            | \$33.43                               | \$36.64                          |                        |                       |
|  | Next 1,000                             | \$7.45                                | \$8.17                           |                        | 1                     |
|  | Next 10,000                            | \$6.95                                | \$7.62                           |                        | ]                     |
|  | New 10,000                             | \$6 80                                | \$7.45                           |                        |                       |
|  | Next 10,000                            | \$6 45                                | \$7.07                           |                        |                       |
|  | Next 15,000                            | \$615                                 | 56.74                            |                        |                       |
|  | Over 50,000                            | \$5 95                                | \$6.52                           |                        |                       |
| 1" Meter   | F#st 5,000                             | \$40.88                               | \$44.80                          |                        |                       |
|  | Next 10,000                            | <b>\$</b> 6 95                        | \$7.62                           |                        |                       |
|  | Next 10,000                            | \$6.80                                | \$7.45                           |                        | }                     |
|  | Next 10,000<br>Next 15,000             | \$6.45                                | \$7.07                           |                        |                       |
|  | Over 50,000                            | \$6 15<br>\$5 95                      | \$6.74<br>\$6.52                 |                        |                       |
| 1.5" Meter   | First 15,000                           |                                       |                                  |                        |                       |
| r.o Nietei   | Next 10,000                            | \$110 38<br>\$6 80                    | S120.98                          |                        |                       |
|  | Next 10,000                            | \$6.45                                | \$7.45<br>\$7.07                 |                        | 1                     |
|  | Next 15,000                            | \$6 15                                | \$6.74                           |                        | 1                     |
|  | Over 50,000                            | \$5 95                                | \$6.52                           |                        |                       |
| 2" Meter   | First 25,000                           | \$178.38                              | \$195.50                         |                        |                       |
|  | Next 10,000                            | \$6 45                                | \$7.07                           |                        |                       |
|  | Next 15,000                            | <b>\$</b> 6 15                        | S6.74                            |                        | ]                     |
|  | Over 50,000                            | \$5 95                                | \$6.52                           |                        |                       |
|  | Wholesale                              | \$1 93                                | S2.12                            | (12)                   |                       |
|  |  |                                       |                                  | (14)                   | ı                     |

The above proposed rate, without RUS grant, must be completed for each grant. If the applicant/engineer desires, there is no objection to recommending a proposed rate with an estimated RUS grant in the Table below. However, the preparer should remember that the Table (A) above must be completed prior to Table (B).

B. Recommended Rate Schedule with RUS Grant:

|   |                            | Summary Ad       | ldendum                    | ter Replacemen |                       |
|---|----------------------------|------------------|----------------------------|----------------|-----------------------|
| 1   | First Year of              | Operation -      | Year Endi                  | ng in 2020     |                       |
| Total Project Cost                              |                            | - Portunos       | rear Entire                | ing in 2020    | \$1,722,000           |
| Proposed Funding                                |                            |                  |                            |                |                       |
| RD Grant Funds                                  |                            |                  |                            |                | \$430,500             |
| Proposed Bond Amount                            |                            |                  |                            |                | \$1,291,500           |
| Proposed Debt Service<br>RD Loan Annual Debt Se | en 200 (Feet 3             |                  |                            |                |                       |
| 40 years a                                      | 3 38%                      |                  |                            | 1)             | \$59,400              |
| LD Loan Debt Service C                          | overage (10% of            | f Annual Debt Se | ervice)                    |                | \$5,940               |
|   |                            | Tota             | al New Projec              | t Debt Service | \$65,340              |
| dditional Expenses &                            | Anticipated De             | bt Service       |                            |                |                       |
| stimated Annual O & M<br>hort-Lived Assets      | Increase                   |                  |                            |                | \$151,088<br>\$33,000 |
|   |                            |                  |                            |                | 000,666               |
|   | Total Additi               | ional Expenses   | & Anticipated              | 1 Debt Service | \$184,088             |
| otal Annual Increase (To                        | otal New Project           | Debt Service + 1 | Fotal Addition             | al Expenses)   | \$249,428             |
| alance Available for Cov                        | erage (For Plann           | ed & Ongoing I   | mmediate Proj              | ects) -        | \$54,278              |
|   | I                          | otal Additional  | Annual Reve                | nue Required   | \$195,150             |
| Total Additional Annu                           |                            |                  |                            |                | \$195,150             |
| Total 2017 Billed War                           |                            |                  |                            | - 12           | \$2,784,611           |
|   |                            |                  | Percentage I               | Rate Increase  | 8.00°                 |
|   |                            | 2018 Existing    | Proposed                   | ]              |                       |
|   | In Gallons                 | Rates            | Rates                      |                |                       |
| 5/8" Meter                                      | First 2,000                | \$18.53          | \$19.42                    | 1              |                       |
|   | Next 3,000<br>Next 10,000  | \$7 45<br>\$6 95 | \$8.17<br>\$7.62           | -              |                       |
|   | Next 10,000                | \$6 80           | \$7.45                     | 1              |                       |
|   | Next 10,000                | \$6 45           | \$7.07                     | †              |                       |
|   | Next 10,000                | \$6 15           | \$6.74                     | 1              |                       |
|   | Next 10,000                | \$5 95           | \$6.52                     | 1              |                       |
|   |                            |                  | 00.0.2                     | 1              |                       |
| 3/4" Meter                                      | First 4,000                | \$33.43          | \$36.64                    | 1              |                       |
|   | Next 1,000                 | \$7.45           | \$8.17                     |                | ı                     |
|   | Next 10,000                | \$6 95           | \$7.62                     |                | j                     |
|   | Next 10,000                | \$6 80           | \$7.45                     |                |                       |
|   | Next 10,000                | \$6 45           | \$7.07                     |                | - 1                   |
|   | Next 15,000                | \$6 15           | S6.74                      |                | - 1                   |
|   | Over 50,000                | \$5 95           | \$6.52                     |                |                       |
| 40.54   |                            |                  |                            | 1              |                       |
| 1" Meter  | First 5,000                | \$40 88          | S44.80                     |                |                       |
|   | Next 10,000                | \$6.95           | \$7.62                     |                |                       |
|   | Next 10,000                | \$6 80           | S7.45                      |                |                       |
|   | Next 10,000                | \$6.45           | \$7.07                     |                |                       |
|   | Next 15.000                | \$6 15           | \$6,74                     |                |                       |
|   | Over 50,000                | <b>\$</b> 5 95   | S6.52                      |                |                       |
| 1 5" Meter                                      | First 15,000               | \$11038          | S120.98                    |                | ļ                     |
|   | Next 10,000                | \$6 80           | \$7.45                     |                | 1                     |
|   | Next 10,000                | \$6 45           | \$7.07                     |                |                       |
|   | Next 15,000                | \$6 15           | \$6.74                     |                |                       |
|   | Over 50,000                | <b>\$</b> 5 95   | \$6.52                     |                |                       |
|   | First 25,000               | \$178 38         | \$195.50                   |                |                       |
| 2" Meter  | T #31 23,000               |                  |                            |                | 1                     |
| 2" Meter  | Next 10,000                | <b>\$</b> 6 45   | \$7.07                     |                | - 1                   |
| 2" Meter  |                            |                  | \$7.07<br>\$6.74           |                |                       |
| 2" Meter  | Next 10,000                | <b>\$</b> 6 45   | \$7.07<br>\$6.74<br>\$6.52 |                |                       |
|   | Next 10,000<br>Next 15,000 | \$6 45<br>\$6 15 | \$6.74<br>\$6.52           | 5)             |                       |

XXV. FORECAST OF WATER USAGE - INCOME - EXISTING SYSTEM - EXISTING USERS

| MONTHLY WATER USA                             | AVERAGE          | AVERAGE _    |                 | Residential    | 1 1        |        | Commercial |          |
|---|------------------|--------------|-----------------|----------------|------------|--------|------------|----------|
|   | Residential      | Residential  | No. of<br>Users | Usage          | Income     | No. of | Usage      | Income   |
| 5/8" x 3/4" meter                             | Residential      | (Neardeling) | USEIS           | 1,000          | <u> </u>   | Users  | 1,000      |          |
| 0 - 1,000 Gal                                 | 900              | 5 19 42      | 973             | 876            | 18,896     | 50     | 50         |          |
| 1,001 - 2,000 Gal.                            | 1,650            | 5 19 42      | 925             | 1,526          |            | 59     | 53         | 1,146    |
| 2,001 - 3,000 Gal.                            | 2,300            | \$ 21.87     | 1094            | 2,516          | 17,964     | 27     | 45         | 524      |
| 3,001 - 4,000 Gal.                            | 3,000            | \$ 27.59     | 998             |                | 23,927     | 19     | 44         | 416      |
| 4,001 - 5,000 Gal.                            | 4,050            | 8 36 17      | 767             | 2,994<br>3,106 | 27,535     | 12     | 36         | 331      |
| 5,001 - 6,000 Gal.                            | 5,200            | \$ 45.45     | 521             | 2,709          | 27,741     | 12     | 49         | 434      |
| 6,001 - 7,000 Gal                             | 6,200            | \$ 53.07     | 335             |                | 23,682     | 7      | 36         | 318      |
| 7,001 - 8,000 Gal                             | •                | \$ 62.22     | 221             | 2,077          | 17,780     | 2      | 12         | 106      |
| 8,001 - 9,000 Gal.                            |                  | 5 70 60      |                 | 1,635          | 13,750     | 2      | 15         | 124      |
| 9,001 - 10,000 Gal                            |                  | 5 77.46      | 144             | 1,224          | 10,166     | 0      | 0          | 0        |
| 10,001 - 11,000 Gal                           | •                |              | 97              | 912            | 7,513      | 0      | 0          | 0        |
| 11,001 - 12,000 Gal.                          | •                |              | 69              | 711            | 5,818      | 0      | 0          | 0        |
| 12,001 - 13,000 Gal                           |                  | \$ 92.70     | 50              | 570            | 4,635      | 0      | 0          | 0        |
| 13,001 - 14,000 Gal                           |                  | 9 99 56      | 33              | 406            | 3,285      | 0      | 0          | 0        |
| 14,001 - 15,000 Gal.                          |                  | \$ 107.94    | 23              | 308            | 2,483      | 0      | 0          | 0        |
|   |                  | 9 114 80     | 20              | 286            | 2,296      | 0      | 0          | 0        |
| 15,001 - 16,000 Gal                           |                  | \$ 121.62    | 16              | 243            | 1,946      | 0      | 0          | 0        |
| 16,001 - 17,000 Gal                           |                  | \$ 129.81    | 13              | 212            | 1,688      | 0      | 0          | 0        |
| 17,001 - 18,000 Gal                           | •                | \$ 436.52    | 10              | 172            | 1,365      | 0      | 0          | 0        |
| 18,001 - 19,000 Gal                           | 18,200           |              | 10              | 182            | 1,440      | 0      | 0          | 0        |
| 19,001 - 20,000 Gal                           | 19,300           |              | 7               | 135            | 1,065      | 0      | 0          | 0        |
| 20,000 & Over                                 | 45,000           | 3 332 74     | 25              | 1,125          | 8,318      | 0      | 0          | 0        |
| Average Monthly Rate<br>Average Monthly Usage | Sub-Total        |              | 6351            | 23,926         | \$ 223,292 | 140    | 290        | \$ 3,400 |
| -   |                  |              |                 |                |            |        |            |          |
| 3/4" meter Resid                              | 13,700           |              | 11              | 151            | 1,222      |        |            |          |
| Comm  | 30,750           | 3 235 15     |                 |                |            | 12     | 369        | 2,834    |
|   | Sub-Total        |              | 11              | 151            | \$ 1,222   | 12     |            | 5 2 834  |
| 48  |                  |              |                 |                |            |        |            |          |
| 1" meter                                      |                  |              |                 |                |            |        |            |          |
| 0 - 20,000 Gal.                               | 17,800           | 45.35        | 16              | 285            | 2,277      |        |            |          |
| 20,000 & Over                                 | 23,850           | 186.91       |                 |                |            | 14     | 334        | 2.617    |
|   | Sub-Total        |              | 16              | 285            | 5 2,277    | 14     | 334        |          |
| 1.5" meter                                    |                  |              |                 |                |            |        |            |          |
|   | 4,100            |              |                 |                |            | 2      | 0          | 242      |
|   | Sub-Total        |              |                 |                |            | 2      | 0.5        |          |
|   |                  |              |                 |                |            | ~      | 0 .        | 24130    |
| 2" meter Resid                                | 37,700           | 123 25       | 19              | 716            | 5,420      |        |            |          |
| Comm  | 62,700           | 450 10       |                 |                | 0,120      | 14     | 878        | 6,301    |
|   | Sub-Total        |              | 19              | 716            | \$ 5,420   | 14     | 878 \$     |          |
| A/halasala                                    |                  |              |                 |                |            |        | 2.0        | 2 -100   |
| Wholesale                                     | 488 12           |              |                 |                |            |        |            |          |
| Fleming Cty WA                                | 158,300          | 335 50       |                 |                |            | 3      | 475        | 1,007    |
| City of Olive Hill                            | 10,100           | 21 41        |                 |                |            | 2      | 20         | 43       |
| •   | A                |              |                 |                |            |        |            |          |
| Sandy Hook WD                                 | 0 5              |              |                 |                |            | 1      | 0          | 0        |
| •   | Sub-Total Totals |              |                 |                |            | 6      |            | 1.049 61 |

# XXXVI. CURRENT OPERATING BUDGET - (WATER SYSTEM) -

Year Ending 2017

| Α, | Operating Income:  |    |           |
|----|--|----|-----------|
|    | Water Sales  | \$ | 2,784,611 |
|    | Miscellaneous  | \$ | 151,029   |
|    | Other (Describe)   | Ů  | 131,023   |
|    | Less Allowances and Deductions   |    |           |
|    | Total Operating Income   | \$ | 2,935,640 |
| В. | Operation and Maintenance Expenses: (Based on Uniform System of Accounts prescribed by National Association of Regulatory Utility Commissioners) |    |           |
|    | Operation Expense  | \$ | 1,896,946 |
|    | Maintenance Expense  | \$ | 171,004   |
|    | Customer Accounts Expense  | \$ | 10,990    |
|    | Administrative and General Expense   | \$ | 522,003   |
|    | Total Operating Expenses   | \$ | 2,600,943 |
|    | Net Operating Income   | \$ | 334,697   |
| C. | Non-Operating Income:  |    |           |
|    | Interest Expense   | \$ | (184,002) |
|    | Interest income  | \$ | 5,092     |
|    | Other (Identify)   | \$ | 1,650     |
|    | Gain on sale of assets   | \$ | 13,816    |
|    | Total Non-Operating Income   | \$ | (163,444) |
| D. | Net Income   | \$ | 171,253   |
| E, | Debt Repayment:  |    |           |
|    | RUS Interest RUS Principal   |    |           |
|    | Non-RUS Interest   | \$ | 116,975   |
|    | Non-RUS Principal  |    |           |
|    | Total Debt Repayment   | \$ | 116,975   |
| F. | Balance Available for Coverage   | \$ | 54,278    |
|    | Rolono Augitable   |    |           |
|    | Balance Available  | \$ | 54,278    |
|    | Coverage Ratio   |    | 1.46      |

# XXXVII. PROPOSED OPERATING BUDGET - (WATER SYSTEM)

(1st Full Year of Operation)

Year Ending 2020

| A. | Operating | Income: |
|----|-----------|---------|
|----|-----------|---------|

| Water Sales      | \$       | 2.983.854 |
|------------------|----------|-----------|
| Miscellaneous    | <b>*</b> | 160.000   |
| Other (Describe) | J        | 100,000   |

|    | Other (Describe)   | \$<br>160,000   |
|----|--|-----------------|
|    | Less Allowances and Deductions   |                 |
|    | Total Operating Income   | \$<br>3,143,854 |
| B. | Operation and Maintenance Expenses: (Based on Uniform System of Accounts prescribed by National Association of Regulatory Utility Commissioners) |                 |
|    | Operation Expense  | \$<br>2,007,139 |
|    | Maintenance Expense  | \$<br>180,938   |
|    | Customer Accounts Expense  | \$<br>11,628    |
|    | Administrative and General Expense   | \$<br>552,326   |
|    | Total Operating Expenses   | \$<br>2,752,031 |
|    | Net Operating Income   | \$<br>391,823   |
| C. | Non-Operating Income:  |                 |
|    | Interest Expense   | \$<br>(194,510) |
|    | Interest Income  | \$<br>7,500     |
|    | Other (Identify)   |                 |
|    | Gain on sale of assets   |                 |
|    | Total Non-Operating Income   | \$<br>(187,010) |
| D. | Net Income   | \$<br>204,813   |
| E. | Debt Repayment:  |                 |
|    | RUS Interest   |                 |
|    | RUS Principal  | \$<br>143,840   |
|    | Non-RUS Interest   | , , , , ,       |
|    | Non-RUS Principal  |                 |
|    | Total Debt Repayment   | \$<br>143,840   |
| F. | Balance Available for Coverage   | \$<br>60,973    |
|    | Short Lived Assets   | \$<br>33,000    |
|    | Debt Reserve   | \$<br>5,940     |
|    | Balance Available  |                 |
|    | Coverage Ratio   | <br>22,033      |
|    |  | 1.42            |

# XV. ESTIMATED PROJECT COST – WATER

| Development                       | <u>\$ 1,585,400</u> |
|-----------------------------------|---------------------|
| Land and Rights                   |                     |
| Legal                             | 15,000              |
| Engineering                       | 79,100              |
| Interest                          | 25,000              |
| Contingencies                     | 17,500              |
| Initial Operating and Maintenance | 0                   |
| Other (Refinance existing loan)   | 0                   |
| TOTAL                             | \$ 1,722,000        |

# XXXVI. PROPOSED PROJECT FUNDING

| Applicant - User Connection Fees | \$0          |
|----------------------------------|--------------|
| Other Applicant Contribution     | 0            |
| RUS Loan                         | 1,291,500    |
| RUS Grant                        | 430,500      |
| ARC Grant (If applicable)        | 0            |
| CDBG (If applicable)             | 0            |
| Other (Specify)                  | 0            |
| Other (Specify)                  | 0            |
| TOTAL                            | \$ 1,722,000 |