

STATE OF MICHIGAN
 DEPARTMENT OF MANAGEMENT AND BUDGET
 OFFICE OF PURCHASING
 P.O. BOX 30026, LANSING, MICHIGAN 48909

January 16, 1996

**NOTICE
 OF
 CONTRACT AGREEMENT NO. 071B5001011
 between
 THE STATE OF MICHIGAN
 and**

NAME & ADDRESS OF CONTRACTOR Blackman Charter Township 1990 West Parnall Road Jackson, MI 49201	TELEPHONE Township Treasurer (517) 788-4345
	FEDERAL I.D. NUMBER
	BUYER Unit 8 Fred Banister
NIGP # Waste Water Treatment & Collection - State Prison of Southern Michigan - DOC	
CONTRACT PERIOD From: May 1, 1986 Thru: May 1, 2016	
TERMS Net	SHIPMENT N/A
F.O.B. N/A	SHIPPED FROM N/A
MINIMUM DELIVERY REQUIREMENTS N/A	

The terms and conditions of this Contract are those of the attached Contract Agreement dated 9/14/95. This contract is an extension of Contract #7055 which started 9/5/72. See also City & Township annual review of waste water service agreements 1994-1995.

WASTEWATER SERVICE AGREEMENT ADDENDUM

THIS AGREEMENT, made and entered into this ~~14th~~^{14th} day of ~~XXXX~~^{XXXX} ~~September~~, 1995, by and between the TOWNSHIP OF BLACKMAN (Blackman), a municipal corporation, the TOWNSHIP OF SANDSTONE (Sandstone), a municipal corporation, and the CITY OF JACKSON (Jackson), a municipal corporation.

W I T N E S S E T H :

WHEREAS, Jackson entered into a Wastewater Service Agreement with Blackman on May 1, 1986 (Jackson-Blackman Agreement); and

WHEREAS, Jackson and Blackman wish to make certain modifications and changes as provided for herein to the Jackson-Blackman Agreement dated May 1, 1986 (JBA); and

WHEREAS, Blackman desires to increase the treatment capacity for wastewater generated by the Southern Michigan State Prison provided for in Paragraph 4c. of JBA; and

WHEREAS, Blackman has constructed a wastewater collection system capable of accepting discharge from Sandstone users connecting to the Hurst Industrial Park Sanitary Sewer Improvement (HIPSSI), described in Exhibit A, attached hereto and incorporated by reference; and

WHEREAS, Jackson, Blackman and Sandstone wish to allow said Sandstone wastewater generators located in Hurst Industrial Park to connect to said HIPSSI;

NOW, THEREFORE, IT IS MUTUALLY AGREED by and between the parties hereto as follows:

1. The definitions in Paragraph 1 of JBA are amended such that terms defined herein which are defined in the Jackson Sewer Service Ordinance shall have the same definition as in the Blackman Sewer Service Ordinance.

2. Paragraph 4F of JBA is deleted.

3. The following sentence shall be added to Paragraph 5A(1):

"User charges shall include surcharges."

4. The following phrase shall be added to the end of Paragraph 5A(2) (a):

"and surcharge rates in the City's Wastewater Rate Resolution and surcharge provisions of the City's sewer use ordinance."

5. Blackman shall have the treatment capacity for wastewater flow generated by the Southern Michigan State Prison (SMSPP) and by other Blackman users as provided for in Paragraph 4c. of the JBA, as set forth in Paragraph 12 of this addendum agreement. In consideration of receiving the increased treatment capacity of wastewater flow, Blackman agrees to pay Jackson a one-time retroactive capital charge in the amount of Twenty-One Thousand Six Hundred Ninety-Six Dollars (\$21,696.00) in cash upon execution of this Addendum. Additionally, a revised annual perpetuity charge shall be calculated pursuant to the terms and conditions of the JBA.

6. Blackman and Sandstone agree that the wastewater discharged by Blackman to the Jackson POTW, by the users in Blackman to the Blackman wastewater collection system at the user's point of discharge, by the SMSP which discharges into the Blackman wastewater collection system, and by Sandstone users discharging to the HIPSSI, shall be subject to the regulations, limitations, and restrictions as established under the Jackson Sewer Service Ordinance, as amended, and Blackman and Sandstone further agree to adopt and amend as necessary a sewer service ordinance containing such surcharges, regulations, limitations, and restrictions as are adopted by Jackson under its sewer service ordinance, as amended (including all definitions). The Blackman and Sandstone ordinances shall be identical to the Jackson ordinance with (i) deviations which are approved by Jackson for purposes of continued access to the Jackson POTW and (ii) deviations which merely reflect the fact that it is a Blackman or Sandstone ordinance. Except as provided in the last sentence of this paragraph, Blackman and Sandstone further agree to take such steps as are necessary to enforce all provisions of their respective Sewer Use Ordinances, including pretreatment requirements and rules adopted by Jackson. Except as provided in the last sentence of this paragraph, if noncompliance with the Sewer Use Ordinance by the SMSP, or a Blackman or HIPSSI user occurs, Blackman or Sandstone, depending on the location of the violation, shall investigate and prosecute any violations of its respective ordinance occurring within their municipal boundaries in accordance with an Enforcement Response Plan (ERP) identical to the Jackson ERP with such deviations as are approved by Jackson. Jackson may adopt rules for use of the POTW and for dischargers to the Blackman wastewater collection system. Jackson, and not Blackman or Sandstone, shall be responsible for and shall make

all decisions regarding the enforcement of major user permits, special agreements, and other enforcement matters related to major users.

7. Blackman agrees that Sandstone may discharge wastewater into the Blackman wastewater collection system constructed by Blackman. Discharge into the Blackman wastewater collection system shall be limited to only Sandstone users located in the Hurst Industrial Park who discharge sanitary wastewater into the HIPSSI.

8. Subject to the terms and conditions set forth in this Agreement, Blackman hereby agrees to accept the wastewater discharged by Sandstone users connected to said HIPSSI into the Blackman wastewater collection system; said wastewater flow shall be part of the total treatment capacity of wastewater flow that is allocated to Blackman from Jackson pursuant to JBA, as amended.

9. Jackson and Blackman recognize that use by Sandstone users of a portion of Blackman's treatment capacity of wastewater flow and the authorization by Blackman and Jackson to allow discharge of said wastewater into the Blackman wastewater collection system as provided for in this Agreement, may vary from the contract language provided for in the JBA. However, both Jackson and Blackman stipulate and agree to this variation from said contract language and both Jackson and Blackman further stipulate and agree that the variation is a solitary exception to said contract language, and that future variations, deviations or exceptions from said contract language shall not be permitted unless Blackman first receives a written waiver from Jackson prior to entering

into any other contract or arrangement with Sandstone or any other municipality.

10. The wastewater collection system constructed by Blackman in the above referenced HIPSSI and all users of same shall be subject to, and shall satisfy, all terms, conditions or covenants contained in the JBA, as amended.

11. In the event Blackman or Sandstone fail to enforce their respective Sewer Use Ordinance, pretreatment requirements, or rules adopted by Jackson as described in Paragraph 6 with respect to users in Blackman or Sandstone, or dischargers originating in Blackman or Sandstone, or in the event Jackson is not satisfied with the enforcement action taken by Blackman or Sandstone in the enforcement of their respective Sewer Use Ordinances, Jackson may immediately enforce such provisions as it deems necessary and the costs incurred by Jackson in doing so shall be paid to Jackson by Blackman or Sandstone, respectively. Subject to the right of arbitration as provided in this paragraph, in the event Jackson takes enforcement action described in this paragraph, Jackson shall bill to Blackman or Sandstone, depending on the location of the violation, the reasonable cost and expense incurred by Jackson, including attorney fees, technical expert fees, and analytical and sampling costs, and Blackman or Sandstone shall pay Jackson said reasonable costs and expenses. In the event Jackson initiates its own enforcement action, within sixty (60) days thereafter, Blackman or Sandstone, as their respective interests are affected, may request arbitration pursuant to the rules of the American Arbitration Association to challenge the reasonableness of the decision by Jackson

to proceed with an enforcement action for the particular enforcement action at issue. In the event Blackman or Sandstone are successful in challenging the reasonableness of the decision by Jackson, then Blackman or Sandstone shall not be liable for any costs or expenses of such enforcement action, and shall be reimbursed any costs or expenses billed to Blackman or Sandstone and paid by either to Jackson for the enforcement action at issue. The party that prevails in arbitration shall be entitled to reasonable costs and expenses associated with the arbitration proceeding. Jackson shall be responsible for issuing, modifying, revoking, denying, and reissuing permits to all major users located in Blackman or Sandstone and for any other special agreements (including such actions in connection with any enforcement action) and said major user or special agreement party shall be obligated to comply with all terms and conditions contained in any permit issued by Jackson. All hearings under the Jackson, Blackman, or Sandstone Sewer Use ordinances shall be conducted by Jackson, including matters in which Blackman or Sandstone otherwise has taken enforcement action. Jackson shall be responsible for the collection of any permit fees associated with the issuance of any permit. Such fees shall be entirely payable to Jackson and not to Blackman or Sandstone. However, if any permit fee is not paid, or if the permit is not otherwise complied with by any major user, Blackman or Sandstone shall take action to disconnect the offending major user from the wastewater collection system if requested to do so by Jackson. In assessing permit fees to major users located in Blackman or Sandstone, Jackson shall employ the same fee criteria as applied to major users located within Jackson, and said major users shall be entitled to all procedural rights and remedies established in Jackson's Sewer Use Ordinance, as amended, with respect to review of the

imposition of such fees. The right of Jackson to issue permits to major users located in Blackman or Sandstone shall not entitle Jackson to any portion of the connection fee otherwise due and owing to Blackman or Sandstone, and Jackson shall not issue any permit to any such major user if Blackman or Sandstone shall file written objections with Jackson prior to the issuance of said permit for users located within their respective municipal boundaries, unless Jackson is required to issue said permit by a court of competent jurisdiction.

12. The total treatment capacity of wastewater flow available to the SMSP shall be:

2.00 million gallons per day maximum month

The total treatment capacity of wastewater flow available to Blackman (not including the SMSP) and users located in Blackman (including Sandstone users connected to the HIPSSI), unless otherwise agreed to in writing by Jackson shall be:

1.75 million gallons per day maximum month

Said total treatment capacity shall comply with all terms and conditions of this Agreement and the JBA, as amended, and Exhibits 3 and 10 to the JBA are amended to incorporate these capacities. Major users of the Blackman wastewater collection system (including Sandstone users connected to the HIPSSI) not discharging to that system as of the date of this Addendum may connect to the Blackman wastewater collection system only after Jackson issues a permit to such major users. Existing major users must apply to Jackson for a permit within ninety (90) days of the date of this Addendum and their continued discharge is subject to the Blackman or Sandstone Sewer Use Ordinance including action taken by Jackson on the user's permit application.

13. Blackman and Sandstone shall establish and maintain an industrial pretreatment program (IPP) consistent with federal and State of Michigan laws and regulations, all subject to the rights of Jackson to take or require actions described in this Agreement or actions consistent with Jackson's IPP or federal and state law and regulations. Jackson shall administer the IPP. Administration of the IPP includes, but is not limited to, (i) issuance, denial, revocation, modification, and reissuance of permits and special agreements, (ii) determination of which users are major users, (iii) monitoring and surveillance, (iv) reporting and dealing with state and federal agencies.

14. Except as otherwise provided for in this Agreement, the parties hereto agree that for the services described in this Agreement, or for any other service provided to Blackman or Sandstone by Jackson, Jackson shall determine and receive compensation from Blackman in accordance with the terms and conditions of the JBA, as amended.

15. Any work performed by Jackson, exclusive of that covered by user charges, debt service, and capital improvement charges or perpetuity charges, either at the specific request of Blackman or Sandstone, or as may be reasonably necessary for Jackson to perform, such as administering the IPP within Blackman or Sandstone, shall be billed to Blackman at the reasonable costs, including attorney fees, incurred by Jackson. Administering the IPP as used herein shall include, but not be limited to, all monitoring, surveillance, cost of enforcement, or analysis performed by Jackson as Jackson deems necessary to administer the IPP. All user reports shall be made directly to Jackson by the user. Additionally, in the event any user of the Blackman sewer system, including Sandstone users connecting to the

HIPSSI who discharge wastewater that exceeds the limitations contained in Blackman's or Sandstone's Sewer Use Ordinance, as amended, or any permit issued by Jackson, or otherwise has a deleterious effect on or interferes with the operation of the Wastewater Facilities or otherwise is subject to a surcharge under the Blackman or Sandstone Sewer Use Ordinance or Jackson's surcharge schedules, Jackson may impose a surcharge against Blackman and/or such user. The imposition of a surcharge will be in addition to all other remedies available to Jackson pursuant to this Addendum, the JBA, as amended, and Jackson's Sewer Service Ordinance, as amended. If the surcharge is paid by a user and is based, in whole or in part, on a deleterious effect or interference with the Blackman wastewater collection system, Blackman shall be paid the portion of the surcharge based on such effect or interference.

16. Blackman agrees to provide and maintain in good condition or cause to be maintained, the necessary wastewater collection and metering system within Blackman's service districts, including the HIPSSI, without expense to Jackson. Blackman shall have all flow meters calibrated every six (6) months and submit written results to City within 30 days of receipt of same.

17. It is understood and agreed by the parties hereto that in the event there is any claimed default on the part of any party to this Agreement, that notice of such claimed default shall be served in writing on the claimed defaulting party. The claimed defaulting party shall be given sixty (60) days within which to correct such alleged default, or such other reasonable time mutually agreed to by the parties to correct the default. The preceding sentence shall not apply to any failure by Blackman or Sandstone to enforce their respective Sewer Use

Ordinance, as amended, or any Permit issued to a user in Blackman or Sandstone by Jackson, or if Jackson is not satisfied with the enforcement action taken by Blackman or Sandstone.

18. This Addendum shall remain in full force and effect for a period of thirty (30) years from the execution date of the JBA (dated May 1, 1986), unless sooner terminated by consent of all parties hereto or by any party because of a breach by another party of a material provision or undertaking; provided, however, that no termination shall be made because of such a breach until after the expiration of six (6) months following a written notice of such breach to the offending party by another party hereto, which notice shall specify how in the opinion of the non-offending party the breach can be corrected.

19. The parties hereto shall be excused from any breach of this Agreement and from any liability or damage if caused by riots, strikes, disasters, war, act of God, or causes beyond their reasonable control. Discharges by users of the Blackman wastewater collection system or of the HIPSSI shall not be deemed a cause beyond the reasonable control of Blackman or Sandstone.

20. The rights, power, and authority herein granted by Blackman and Sandstone to Jackson shall be for the exclusive use and benefit of Jackson during the term of this Agreement, and the period of any extension thereof, it being intended hereby that Blackman and Sandstone, except as the parties hereto mutually agree, shall not grant like rights, powers, or authority as herein granted, to any other person, firm, corporation, or governmental unit during said period, and shall not directly or indirectly allow, permit, or consent to the use of any

public places within Blackman's or Sandstone's municipal boundaries in any manner inconsistent or competitive with the terms, conditions, and purposes of this Agreement; provided, however, in the event Blackman seeks to increase treatment capacity of wastewater flow and said increased capacity is not allowed by Jackson, Blackman may contract with other entities for the said increased capacity by using the capacity of the other entity. This paragraph shall be applicable with respect to the Township of Sandstone only as to Sandstone users located in Hurst Industrial Park and connected to the HIPSSI referenced herein, and shall not in any way limit, apply to, or derogate from a certain contract dated December 12, 1990 between Village of Parma, Township of Spring Arbor, Sandstone and Jackson, or prohibit Sandstone from connecting Sandstone users to a Village of Parma treatment facility in the event the same is constructed in the future; provided, however, that no Sandstone user or customer may be disconnected from the Jackson system and connect to a Village of Parma system.

21. This Agreement is mutually understood and declared to be binding upon all successor governmental units of the parties hereto which may, during the term hereof, become vested by law with the right to control the use of the public places hereinbefore described.

22. Should any part of this Agreement be held by a court of competent jurisdiction to be illegal or unenforceable, such event shall not be deemed to affect the validity of any other portion hereof. Any such holding materially affecting the commitments herein may be the subject of further negotiations for purpose of legally revising the consideration involved.

23. In the event of a dispute between the parties to this Agreement concerning the establishment of service charges, user charges, rates, unit equivalents, or the costs or expenses of enforcement litigation initiated pursuant to paragraph eleven (11) herein, if said dispute cannot be resolved between the parties, then either party may request that the matter be submitted to binding arbitration. The request to submit a dispute to binding arbitration must be made within sixty (60) days after the dispute arises, unless all parties agree in writing to extend said period. This paragraph shall not apply to any matter relating to Blackman's or Sandstone's IPP.

24. Exhibit 7 of the JBA is amended so that it contains only the provisions of Section 27-76 of the Code of Jackson.

25. Exhibit 15 of the JBA is amended as shown on Exhibit 15 attached to this addendum agreement.

26. Except as modified herein, all terms and conditions of the JBA, as amended, shall remain in full force and effect and such terms and conditions are hereby accepted by the parties hereto.

IN WITNESS WHEREOF, the parties hereto have set their hands and seals on the date above written.

In the presence of:

TOWNSHIP OF BLACKMAN,
a municipal corporation,

George M. Craft
Jean R. Strickrodt

By Frank W. Barrett
Frank Barrett, Supervisor
By Henry Comperchio
Henry Comperchio, Clerk

STATE OF MICHIGAN)
) ss:
COUNTY OF JACKSON)

On this 11th day of August, 1995, before me, a Notary Public in and for said County, appeared Frank Barrett and Henry Comperchio, to me personally known, who being duly sworn did each for himself say that they are respectively the Supervisor and Clerk of the Township of Blackman, County of Jackson, State of Michigan, a municipal corporation, the Township named in and which executed the within instrument, and that the seal affixed to said instrument is the seal of said Township and that said instrument was signed and sealed on behalf of said Township by authority of its Board, and that said Frank Barrett and Henry Comperchio acknowledged said instrument to be the free act and deed of the Township.

PATRICIA R. MELOY, Notary Public
Jackson County, Michigan
My Commission Expires 8-24-96

Patricia R. Meloy
Notary Public
Jackson County, Michigan
My commission expires: 8-24-96

* * * * *

In the presence of:

TOWNSHIP OF SANDSTONE,
a municipal corporation,

George Hubert
George Hubert
Rose Hubert
Rose Hubert

By *Richard Benn*
Richard Benn, Supervisor
By *Priscilla Sutliff*
Priscilla Sutliff, Clerk

STATE OF MICHIGAN)
) ss:
COUNTY OF JACKSON)

On this 14th day of September, 1995, before me, a Notary Public in and for said County, appeared Richard Benn and Priscilla Sutliff, to me personally known, who being duly sworn did each for themselves say that they are respectively the Supervisor and Clerk of the Township of Sandstone, County of Jackson, State of Michigan, a municipal corporation, the Township named in and which executed the within instrument, and that the seal affixed to said instrument is the seal of said Township and that said instrument was signed and sealed on behalf of said Township by authority of its Board, and that said Richard Benn and Priscilla Sutliff acknowledged said instrument to be the free act and deed of the Township.

George Hubert
Notary Public
Jackson County, Michigan
My commission expires: Dec 19, 1997

CITY OF JACKSON,
a municipal corporation,

In the presence of:

Sharon K. Hase

By Richard T. Dirlam
Richard T. Dirlam, Mayor

Sharon A. Roman

By Sandra L. Price
Sandra L. Price, City Clerk

STATE OF MICHIGAN)
) ss:
COUNTY OF JACKSON)

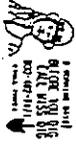
On this 17th day of July, 1995, before me, a Notary Public in and for said County, appeared Richard T. Dirlam and Sandra L. Price, to me personally known, who being duly sworn did each for themselves say that they are respectively the Mayor and Clerk of the City of Jackson, County of Jackson, State of Michigan, a municipal corporation, the City named in and which executed the within instrument, and that the seal affixed to said instrument is the seal of said City and that said instrument was signed and sealed on behalf of said City by authority of its Commission, and that said Richard T. Dirlam and Sandra L. Price acknowledged said instrument to be the free act and deed of the City.

Lynn Fessel
Notary Public
Jackson County, Michigan
My commission expires: _____

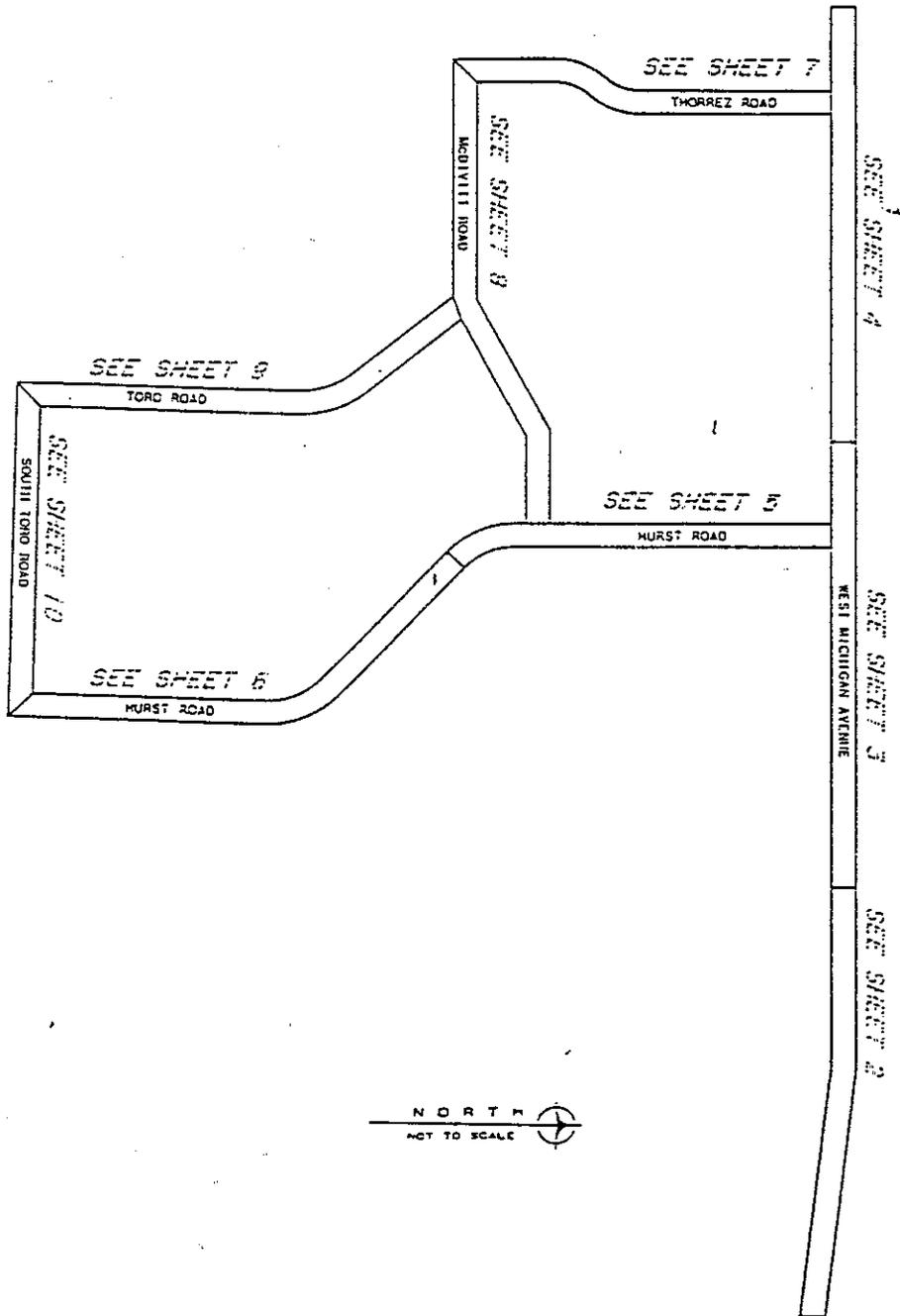
* * * * *

LYNN FESSEL
NOTARY PUBLIC STATE OF MICHIGAN
JACKSON COUNTY
MY COMMISSION EXP. APR. 15, 1999

EXHIBIT A



NOTES:
 1) ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH BLACKMAN TOWNSHIP STANDARDS & SPECIFICATIONS.



NORTH
 NOT TO SCALE

PROJECT NO.	DATE	BY	CHECKED BY	APPROVED BY
11111	11/11	ABC	DEF	GHI
BLACKMAN CHARTER TOWNSHIP JACKSON COUNTY, MICHIGAN HURST INDUSTRIAL PARK SANITARY SEWER IMPROVEMENTS				

**RIPSTRA ENGINEERING
 & SURVEYING, INC.**
 977 AIRPORT ROAD
 JACKSON MICHIGAN 49202
 517-789-9898

EXHIBIT 15

<u>Review No.</u>	<u>Review Period</u>	<u>Service Period Being Audited</u>	<u>Service Period Being Projected</u>	<u>Effective Period for Amended Rates</u>
1	Nov. 1, 1993 through Jan. 31, 1994	July 1, 1992 through June 30, 1993	July 1, 1993 through June 30, 1994	March 1, 1994 through Feb. 28, 1995
2	Nov. 1, 1994 through Jan. 31, 1995	July 1, 1993 through June 30, 1994	July 1, 1994 through June 30, 1995	March 1, 1995 through Feb. 28, 1996
3	Nov. 1, 1995 through Jan. 31, 1996	July 1, 1994 through June 30, 1995	July 1, 1995 through June 30, 1996	March 1, 1996 through Feb. 28, 1997
4	Nov. 1, 1996 through Jan. 31, 1997	July 1, 1995 through June 30, 1996	July 1, 1996 through June 30, 1997	March 1, 1997 through Feb. 28, 1998
5	Nov. 1, 1997 through Jan. 31, 1998	July 1, 1996 through June 30, 1997	July 1, 1997 through June 30, 1998	March 1, 1998 through Feb. 28, 1999
6	Nov. 1, 1998 through Jan. 31, 1999	July 1, 1997 through June 30, 1998	July 1, 1998 through June 30, 1999	March 1, 1999 through Feb. 28, 2000
7	Nov. 1, 1999 through Jan. 31, 2000	July 1, 1998 through June 30, 1999	July 1, 1999 through June 30, 2000	March 1, 2000 through Feb. 28, 2001
8	Nov. 1, 2000 through Jan. 31, 2001	July 1, 1999 through June 30, 2000	July 1, 2000 through June 30, 2001	March 1, 2001 through Feb. 28, 2002
9	Nov. 1, 2001 through Jan. 31, 2002	July 1, 2000 through June 30, 2001	July 1, 2001 through June 30, 2002	March 1, 2002 through Feb. 28, 2003
10	Nov. 1, 2002 through Jan. 31, 2003	July 1, 2001 through June 30, 2002	July 1, 2002 through June 30, 2003	March 1, 2003 through Feb. 28, 2004
11	Nov. 1, 2003 through Jan. 31, 2004	July 1, 2002 through June 30, 2003	July 1, 2003 through June 30, 2004	March 1, 2004 through Feb. 28, 2005

<u>Review No.</u>	<u>Review Period</u>	<u>Service Period Being Audited</u>	<u>Service Period Being Projected</u>	<u>Effective Period for Amended Rates</u>
12	Nov. 1, 2004 through Jan. 31, 2005	July 1, 2003 through June 30, 2004	July 1, 2004 through June 30, 2005	March 1, 2005 through Feb. 28, 2006
13	Nov. 1, 2005 through Jan. 31, 2006	July 1, 2004 through June 30, 2005	July 1, 2005 through June 30, 2006	March 1, 2006 through Feb. 28, 2007
14	Nov. 1, 2006 through Jan. 31, 2007	July 1, 2005 through June 30, 2006	July 1, 2006 through June 30, 2007	March 1, 2007 through Feb. 28, 2008
15	Nov. 1, 2007 through Jan. 31, 2008	July 1, 2006 through June 30, 2007	July 1, 2007 through June 30, 2008	March 1, 2008 through Feb. 28, 2009
16	Nov. 1, 2008 through Jan. 31, 2009	July 1, 2007 through June 30, 2008	July 1, 2008 through June 30, 2009	March 1, 2009 through Feb. 28, 2010
17	Nov. 1, 2009 through Jan. 31, 2010	July 1, 2008 through June 30, 2009	July 1, 2009 through June 30, 2010	March 1, 2010 through Feb. 28, 2011
18	Nov. 1, 2010 through Jan. 31, 2011	July 1, 2009 through June 30, 2010	July 1, 2010 through June 30, 2011	March 1, 2011 through Feb. 28, 2012
19	Nov. 1, 2011 through Jan. 31, 2012	July 1, 2010 through June 30, 2011	July 1, 2011 through June 30, 2012	March 1, 2012 through Feb. 28, 2013
20	Nov. 1, 2012 through Jan. 31, 2013	July 1, 2011 through June 30, 2012	July 1, 2012 through June 30, 2013	March 1, 2013 through Feb. 28, 2014
21	Nov. 1, 2013 through Jan. 31, 2014	July 1, 2012 through June 30, 2013	July 1, 2013 through June 30, 2014	March 1, 2014 through Feb. 28, 2015

CITY AND TOWNSHIP ANNUAL REVIEW
OF WASTEWATER SERVICE AGREEMENTS

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Revised 11/9/95

CITY OF JACKSON
 FUND 590 – SEWAGE FUND EXPENSE DETAIL
 1994-95 ACTUAL

Zero hours deducted for city attorney from admin \$152,423

ACTIVITY ==>	549	550	551	553	554
		WW		SLUDGE	
CLASSIFICATION	COLLECTION	TRTMNT	MAINT.	HANDLING	ADMIN.
=====					
GROSS SALARIES & WAGES					
706 SALARIES & WAGE	\$52,776	\$277,021	\$74,916	\$57,379	\$105,785
707 WAGES-TEMPORARY	\$0	\$25,214	\$22,363	\$0	\$5,946
713 BEREAVEMENT PAY	\$0	\$0	\$0	\$0	\$0
716 COMPENSATORY	\$0	\$0	\$0	\$0	\$0
717 HOLIDAY PAY	\$0	\$0	\$0	\$0	\$0
718 SICK PAY	\$0	\$0	\$0	\$0	\$0
723 VACATION PAY	\$0	\$0	\$0	\$0	\$0
TOTAL	\$52,776	\$302,235	\$97,279	\$57,379	\$111,731
OTHER SALARIES & FRINGES					
702 PAY OFF	\$0	\$0	\$0	\$0	\$0
708 SHIFT PAY	\$0	\$0	\$0	\$0	\$0
709 OVERTIME	\$10,234	\$22,296	\$3,683	\$3,674	\$0
712 ACTING PAY	\$0	\$0	\$0	\$0	\$0
714 DOUBLE OVERTIME	\$0	\$0	\$0	\$0	\$0
715 EMPLOYERS' FICA	\$4,803	\$22,690	\$6,072	\$4,735	\$8,391
719 HOSPITAL INSURANCE	\$6,192	\$36,825	\$10,519	\$11,973	\$12,050
720 LIFE INSURANCE	\$0	\$0	\$0	\$0	\$0
722 GEN PEN FD CONT+003	\$3,801	\$7,430	\$1,985	\$1,547	\$2,598
724 UNEMPLOYMENT COMP	\$153	\$679	\$250	\$150	\$198
724 WORKERS' COMP	\$2,494	\$12,056	\$3,258	\$2,532	\$4,372
725 OTHER FRINGES	\$1,856	\$5,638	\$1,619	\$1,320	\$1,579
TOTAL	\$29,533	\$107,614	\$27,386	\$25,931	\$29,188
TOTAL PERSONAL SERVICES	\$82,309	\$409,849	\$124,665	\$83,310	\$140,919
MATERIAL & SUPPLIES					
726 SUPPLIES	\$0	\$0	\$0	\$0	\$1,065
740 OPERATING SUPPLIES	\$324	\$2,897	\$1,682	\$644	\$1,260
743 CHEMICALS	\$0	\$64,720	\$0	\$0	\$0
748 LABORATORY SUPPLIES	\$0	\$17,072	\$0	\$0	\$0
749 DIESEL FUEL	\$0	\$0	\$0	\$0	\$0
751 GASOLINE	\$990	\$331	\$622	\$4,320	\$0
751 LUBRICANTS	\$0	\$0	\$1,684	\$0	\$0
755 SAFETY SUPPLIES	\$1,772	\$4,383	\$2,160	\$0	\$0
758 LAUNDRY	\$70	\$2,830	\$627	\$0	\$0
759 SMALL TOOLS	\$0	\$0	\$0	\$0	\$0
776 BUILDING & CUST	\$0	\$0	\$1,559	\$0	\$0
778 EQUIPMENT MAINT	\$5,184	\$0	\$26,383	\$3,876	\$0
778 ELECTRICAL SUPPLIES	\$0	\$0	\$4,951	\$0	\$0
TOTAL	\$8,340	\$92,233	\$39,668	\$8,840	\$2,325

Revised 11/9/95

CITY OF JACKSON
 FUND 590 - SEWAGE FUND EXPENSE DETAIL
 1994-95 ACTUAL

Zero hours deducted for city attorney from admin \$152,423

ACTIVITY ==>	549	550	551	553	554
		WW		SLUDGE	
CLASSIFICATION	COLLECTION	TRTMNT	MAINT.	HANDLING	ADMIN.
=====					
CONTRACTUAL & OTHERS					
719 HOSP INS-RETIRE	\$7,190	\$814	\$0	\$0	\$0
808 AUDIT FEES	\$0	\$0	\$0	\$0	\$3,245
816 IND PRETRT PROGRAM	\$0	\$35,637	\$0	\$0	\$0
817 CONSULTANT	\$0	\$0	\$0	\$0	\$1,443
818 CONTRACTUAL SERV	\$0	\$14,261	\$8,464	\$241,912	\$787
818.1 C/SER-GRS MAINT	\$0	\$0	\$22,040	\$0	\$0
818.1 C/SER-INS MAINT	\$1,106	\$0	\$17,141	\$0	\$0
818.1 C/SER-DIG CLEAN	\$0	\$0	\$0	\$0	\$0
850 COMMUNICATIONS	\$3,520	\$2,091	\$0	\$0	\$0
853 TELEPHONE	\$0	\$0	\$0	\$0	\$1,876
861 AUTO ALLOWANCE	\$0	\$0	\$0	\$0	\$118
873 TRAVEL	\$0	\$0	\$0	\$0	\$212
880 COMMUNITY PROMO	\$0	\$0	\$0	\$0	\$0
902 ADVERTISING	\$0	\$0	\$0	\$0	\$646
914 CM/LIAB/CAR INS	\$3,543	\$0	\$53,204	\$3,033	\$0
920 PUBLIC UTILITIES	\$20,928	\$306,370	\$0	\$0	\$0
921 UTILITIES-GAS	\$0	\$0	\$0	\$11,393	\$0
930 REPAIRS& MAINT	\$12,931	\$0	\$40,268	\$0	\$1,305
931 BUILDING MAINT	\$0	\$0	\$12,231	\$0	\$0
932 EQUIPMENT REPAIR	\$0	\$0	\$0	\$0	\$0
933 EQUIPMENT MAINT	\$0	\$1,206	\$0	\$3,851	\$0
934 OFFICE EQ-MAINT	\$0	\$0	\$0	\$0	\$50
938 GROUNDS MAINT	\$0	\$0	\$13,046	\$0	\$0
938 SEWER MAINT/DPW	\$250,097	\$0	\$0	\$0	\$0
938 9 SEWER MAINT/WATER	\$8,847	\$0	\$0	\$0	\$0
939 VEHICLE MAINT	\$924	\$776	\$387	\$5,979	\$0
939 VEHICLE SERVICE	\$0	\$0	\$0	\$4,945	\$0
943 EQUIP RENT 941.000	\$71	\$0	\$0	\$0	\$0
956 CONTINGENCY	\$0	\$0	\$208	\$0	\$0
958 MEMBERSHIPS/DUE	\$0	\$0	\$0	\$0	\$235
960 EDUCATION/TRAINING	\$0	\$0	\$0	\$0	\$1,880
963 Sundry	\$0	\$0	\$0	\$0	\$0
964 BILLING ADJUSTMENT	\$0	\$0	\$0	\$0	\$0
999.1 CONTR-SS RPL FD	\$500,000	\$0	\$0	\$0	\$0
999.1 CONTR-EQ RPL FD	\$19,867	\$52,613	\$161,667	\$69,624	\$0
965 ADM CHG TO G/F	\$0	\$0	\$0	\$0	\$152,423
999.2 CONTR-SWR FAC F	\$0	\$0	\$0	\$0	\$55,496
999.3 CONT-1987 ENERGY	\$0	\$0	\$0	\$0	\$4,011
999.9 CONTR-WATER FUND	\$0	\$0	\$0	\$0	\$135,493
TOTAL	\$829,024	\$413,768	\$328,656	\$340,737	\$359,220
DEBT SERVICE					
995 INTEREST					\$45,125
996 PAYING AGENT FEE					\$125
TOTAL					\$45,250
ACTIVITY TOTAL	\$919,673	\$915,850	\$492,989	\$432,887	\$547,714

CITY OF JACKSON
DEBT SERVICE & CAPITAL ACQUISITIONS

SEWER DISPOSAL REVENUE BONDS – PRINCIPAL		
SERIES I 1994 BOND PLANT IMPROVEMENTS		\$45,000
SERIES II		\$0
SERIES III		\$0
		=====
TOTAL		\$45,000
ANNUAL TOWNSHIP PERPETUITY CHARGE		
1971 AND PRIOR	Checked actual perpetuity charge for Prison	\$71,090
AFTER 1971	and Napoleon based on 1.9 mgd and .08mgd.	\$70,693
	respectively 9/6/94.	=====
TOTAL		\$141,783
FUND 590, ACTIVITY 555 – CAPITAL ACQUISITIONS		\$214,028
Bond payment, interest, agent fee, and capital added to location bt25 on spread sheet for township unit cost determination		

CITY OF JACKSON
WASTEWATER TREATMENT PLANT OM&R

BUDGET ITEM	ANNUAL BUDGET	TOTAL
=====		
PERSONNEL SERVICES		
A550 WASTE WATER TREATMENT	\$409,849	
A551 MAINTENANCE	\$124,665	
A553 SLUDGE HANDLING	\$83,310	
A554 ADMINISTRATION	\$140,919	
TOTAL		\$758,743
POWER (A550,920)	\$306,370	\$306,370
CHEMICALS (A550,743)	\$64,720	\$64,720
MAINTENANCE		
A550 WASTEWATER TREATMENT	\$413,768	
920 POWER	(\$306,370)	
965 06 CONTR-EQ RPL FD	(\$52,613)	
A551 MAINTENANCE	\$328,656	
965 06 CONTR-EQ RPL FD	(\$161,667)	
A553 SLUDGE HANDLING	\$340,737	
965 06 CONTR-EQ RPL FD	(\$69,624)	
TOTAL		\$492,887
SUPPLIES		
A550 WASTERWATER TREATMENT	\$92,233	
743 CHEMICALS	(\$64,720)	
A551 MAINTENANCE	\$39,668	
A553 SLUDGE HANDLING	\$8,840	
TOTAL		\$76,021
ADMINISTRATION		
A554 ADMINISTRATION	\$359,220	
965.91 CONTR-WATER FUN	(\$135,493)	
965.21 CONTR-SWR FAC F	(\$55,496)	
SUPPLIES	\$2,325	
TOTAL		\$170,556
EQUIPMENT REPLACEMENT		
A550 WASTEWATER TREATMENT	\$52,613	
A551 MAINTENANCE	\$161,667	
A553 SLUDGE HANDLING	\$69,624	
TOTAL		\$283,904
=====		
TOTAL ANNUAL OM&R EXPENSES		\$2,153,201

CITY OF JACKSON
 PROPOSED EXTRA STRENGTH WASTEWATER SURCHARGES

DESCRIPTION	TOTAL COST		FLOW		BOD	
		%	\$	%		\$
PERSONNEL	\$758,743	25	\$189,686	25	\$189,686	
POWER	\$306,370	20	\$61,274	50	\$153,185	
CHEMICALS	\$64,720	25	\$16,180	0	\$0	
MAINTENANCE	\$492,887	50	\$246,444	20	\$98,577	
SUPPLIES	\$76,021	15	\$11,403	35	\$26,607	
ADMINISTRATION	\$170,556	100	\$170,556	0	\$0	
EQUIP. REPL.	\$283,904	30	\$85,171	30	\$85,171	
TOTAL OM&R COST	\$2,153,201	36	\$780,714	26	\$553,226	
ANNUAL LOAD			14.3 MGD		4,935,590	
OM&R COST PER UNIT			\$0.1119 /HCF		\$0.1121	
CAPITAL ACQUISITIONS, Bond paymt, int, agent fee	\$304,278	36	\$109,540	26	\$79,112	
CAPITAL COST PER UNIT			\$0.0157 /HCF		\$0.0160	
TOTAL COST PER UNIT			\$0.1276 /HCF		\$0.1281	

EXTRA STRENGTH SURCHARGE (continued)

DESCRIPTION	<===== SS =====<		<===== P =====<		TKN =====>	
	%	\$	%	\$	%	\$
PERSONNEL	25	\$189,686	10	\$75,874	15	\$113,811
POWER	10	\$30,637	5	\$15,319	15	\$45,956
CHEMICALS	5	\$3,236	70	\$45,304	0	\$0
MAINTENANCE	20	\$98,577	5	\$24,644	5	\$24,644
SUPPLIES	40	\$30,408	5	\$3,801	5	\$3,801
ADMINISTRATION	0	\$0	0	\$0	0	\$0
EQUIP. REPL.	30	\$85,171	5	\$14,195	5	\$14,195
TOTAL OM&R COST	20	\$437,715	8	\$179,137	9	\$202,407
ANNUAL LOAD		4,906,535 LBS		192,121 LBS		666,069
OM&R COST PER UNIT		\$0.0892 /LB		\$0.9324 /LB		\$0.3039
CAPITAL ACQUISITIONS, Bond paymt,int,agent fee	20	\$60,856	8	\$24,342	9	\$27,385
CAPITAL COST PER UNIT		\$0.0124 /LB		\$0.1267 /LB		\$0.0411
TOTAL COST PER UNIT		\$0.1016 /LB		\$1.0591 /LB		\$0.3450

BOD STRENGTHS ARE INCREASED

May 1994 - October 1994

SPRING ARBOR

DATE	FLOW	BOD	SS	TKN	P
Twelve month	0.670	125	158	14.9	3.8

18TH

DATE	FLOW	BOD	SS	TKN	P
Twelve month	0.124	213	360	20.9	4.8

NAPOLEON

DATE	FLOW	BOD	SS	TKN	P
Twelve month	0.067	218	364	26.8	5.1

PRISON

DATE	FLOW	BOD	SS	TKN	P
Twelve month	1.634	186	282	15.0	5.1

DISTRICT I (ROBINSON-CATALINA)

DATE	FLOW	BOD	SS	TKN	P
Twelve month	0.631	197	286	16.6	4.7

DISTRICT II (MILWAUKEE-NAPOLEON)

DATE	FLOW	BOD	SS	TKN	P
Twelve month	1.040	185	261	22.6	4.7

CITY METER

DATE	FLOW	BOD	SS	TKN	P
Twelve month	14.300	113	113	15.3	4.4

BLACKMAN

DATE	FLOW	BOD	SS	TKN	P
Twelve month	1.015	166	158	18.1	2.8

ROBINSON

DATE	FLOW	BOD	SS	TKN	P
Twelve month	1.301	155	219	15.0	4.0

MILWAUKEE

DATE	FLOW	BOD	SS	TKN	P
Twelve month	1.107	186	269	22.8	4.9

WASTEWATER TREATMENT CHARGES
JULY 1994 – DECEMBER 1994
TOWNSHIPS

SPSM	\$215,262.87
BLACKMAN	\$138,644.12 (a)
SUMMIT DISTRICT I & II	\$254,665.83
SPRING ARBOR	\$66,666.20
NAPOLEON	\$11,022.19
TOTAL	\$686,261.21

(a) INCLUDES MAINTENANCE CHARGES

WASTEWATER TREATMENT AND MAINTENANCE SERVICES CHARGES
FOR
BLACKMAN TOWNSHIP
JULY 1994 - DECEMBER 1994

SOUTHERN MICHIGAN STATE PRISON		\$215,428.91
BLACKMAN MAINTENANCE COST		----- \$22,977.88 -----
BLACKMAN BULK METERED CHARGES	\$106,687.76	
BLACKMAN METERED ACCOUNTS	\$1,251.06	
BLACKMAN UNMETERED ACCOUNTS	\$7,808.64	
	BLACKMAN TREATMENT CHARGE	\$115,747.46 -----
	SHEET TOTAL	\$354,154.25 =====

WASTEWATER TREATMENT SERVICE CHARGES
 SOUTHERN MICHIGAN STATE PRISON
 JULY 1994 - DECEMBER 1994

END DATE DEC 1994 METR READ 0
 BEG DATE JUL 1994 METR READ 0 TOTAL FLOW 297183000 GALLONS

TREATMENT CHARGES:

	2YR UNIT COST		
JUL 1994 100 CU/FT	397303	=	\$0.00
6 MON AVG BOD MG/L		8.34 =	\$0.00
6 MON AVG SS MG/L		8.34 =	\$0.00
6 MON AVG TKN MG/L		8.34 =	\$0.00
6 MON AVG P MG/L		8.34 =	\$0.00

TREATMENT CHARGE \$197,656.91

TRANSPORTATION CHARGE

\$.01/100 CU/FT	0 100/CU/FT	=	\$0.00
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PERPETUITY CHARGE:

6 MONTH PERPEUITY CHARGE \$17,772.00

TOTAL 6 MONTH SERVICE CHARGE \$215,428.91

=====

WASTEWATER TREATMENT SERVICE CHARGES
 BLACKM/KMAN BULKMETERED
 JULY 1994 - DECEMBER 1994

RIVER ST.

END DATE DEC 1994 METR READ 0
 BEG DATE JUL 1994 METR READ 0 TOTAL FLOW 972506 GALLONS

TREATMENT CHARGES:

	2YR UNIT COST	=	
JUL 1994 100 CU/FT		=	\$0.00
6 MON AVG BOD MG/L	8.34	=	\$0.00
6 MON AVG SS MG/L	8.34	=	\$0.00
6 MON AVG TKN MG/L	8.34	=	\$0.00
6 MON AVG P MG/L	8.34	=	\$0.00
	TREATMENT CHARGE		\$661.44

TRANSPORTATION CHARGE:
 \$ 0155/100 CU/FT

0 100 CU/FT	
TRANSPORTATION CHARGE	\$20.15

MASTER METER

END DATE DEC 1994 METR READ 0
 BEG DATE JUL 1994 METR READ 0 TOTAL 0 GALLONS

MASTER METER	0	-MINUS	PRISON	0	-MINUS
ROBINSON RD	0	-MINUS	18TH ST	0	=
				171404000	GALLONS

TREATMENT CHARGES:

	2YR UNIT COST	=	
JUL 1994 100/CU/FT		=	\$0.00
6 MON AVG BOD MG/L	8.34	=	\$0.00
6 MON AVG SS MG/L	8.34	=	\$0.00
6 MON AVG TKN MG/L	8.34	=	\$0.00
6 MON AVG P MG/L	8.34	=	\$0.00
	TREATMENT CHARGE		\$89,648.19

PERPETUITY CHARGE:

6 MONTH PERPETUITY CHARGE	\$16,357.98

TOTAL	\$106,687.76
	=====

WASTEWATER TREATMENT SERVICE CHARGES
BLACKMAN METERED ACCOUNT
JULY 1993 – DECEMBER 1993

FINLEY'S AMERICAN RESTAURANT

END DATE DEC 1993

BEG DATE JUL 1993

TOTAL FLOW

1231 100 CU/FT

TREATMENT CHARGE:

SERVICE CHARGE FOR 1231 100 CU/FT OF FLOW FROM FINLEY'S AT
ASSUMED DOMESTIC STRENGTH IS COMPUTED AS PER EXHIBIT 12 OF
BLACKMAN TOWNSHIP CONTRACT

1231 100 CU/FT X \$.6381/100 CU/FT = \$785.50

TOTAL TREATMENT CHARGE \$785.50

TRANSPORTATION CHARGE:

COST BASED ON FLOW DISCHARGED THROUGH CITY'S TRUNK AND
INTERCEPTOR SEWERS AS PER SCHEDULE DESCRIBED IN EXHIBIT 5 OF
BLACKMAN TOWNSHIP CONTRACT

1231 100 CU/FT X \$ 2974/100 CU/FT = \$366.10

TRANSPORTATION CHARGE \$366.10

DEBT SERVICE CHARGE:

AS PER DESCRIBED IN PARAGRAPH 5C(1)(c) OF BLACKMAN TOWNSHIP
CONTRACT

1231 100 CU/FT X \$.0808/100 CU/FT = \$99.46

TOTAL SERVICE CHARGE FOR FINLEY'S \$1,251.06

WASTEWATER TREATMENT SERVICE CHARGES
BLACKIACKMAN UNMETERED ACCOUNTS
JULY 1994 - DECEMBER 1994

HILLSDALE AND LANSING AVE ACCOUNTS

END DATE DEC 1994
BEG DATE JUL 1994

TREATMENT CHARGES, TRANSPORTATION CHARGE (INTERCEPTOR SEWER),
AND DEBT SERVICE CHARGE EQUALS \$ 7344/100 CU/FT X (9)/100 CU/FT
OR \$6.61 PER FACILITY UNIT

64 FACILITY UNITS X \$6.61 = \$2,538.24

GANSON AND BROWN ST ACCOUNTS

END DATE DEC 1994
BEG DATE JUL 1994

TREATMENT CHARGES, TRANSPORTATION CHARGE (TRUNK & INTERCEPTOR
SEWER), AND DEBT SERVICE CHARGE EQUALS \$1.0163/100 CU/FT X (9)
100 CU/FT OR \$9.15 PER FACILITY UNIT

96 FACILITY UNITS X \$9.15 = \$5,270.40

TOTAL \$7,808.64
=====

WASTEWATER TREATMENT SERVICE CHARGES
SUMMIT TOWNSHIP DISTRICT I & II
JULY 1994 – DECEMBER 1994

TREATMENT CHARGE DISTRICT I	\$99,930.40

TREATMENT CHARGE DISTRICT II	\$123,882.48

TRANSPORTATION CHARGE	\$3,765.47

PERPETUITY CHARGE	\$27,087.48

TOTAL SERVICE CHARGE	\$254,665.83
	=====

WASTEWATER TREATMENT SERVICE CHARGES
 SUMMIT T TOWNSHIP DISTRICT I
 JULY 1994 - DECEMBER 1994

ROBINSON RD FLOW 0 GALS
 CATALINA RD FLOW 0 GALS DISTRICT I 1.1E+08 GALLONS

TREATMENT CHARGES:

	2YR UNIT COST		=	
JUL 1994 100 CU/FT	150480		=	\$0.00
6 MON AVG BOD MG/L		8.34	=	\$0.00
6 MON AVG SS MG/L		8.34	=	\$0.00
6 MON AVG TKN MG/L		8.34	=	\$0.00
6 MON AVG P MG/L		8.34	=	\$0.00

TREATMENT CHARGE \$82,334.73

18TH ST. FLOW 20671000

TREATMENT CHARGES:

JUL 1994 100 CU/FT	27635		=	\$0.00
6 MON AVG BOD MG/L		8.34	=	\$0.00
6 MON AVG SS MG/L		8.34	=	\$0.00
6 MON AVG TKN MG/L		8.34	=	\$0.00
6 MON AVG P MG/L		8.34	=	\$0.00

TREATMENT CHARGE \$17,595.67

DISTRICT I SERVICE CHARGES \$99,930.40
 =====

WASTEWATER TREATMENT SERVICE CHARGES
 SUMMIT IT TOWNSHIP DISTRICT II
 JULY 1994 - DECEMBER 1994

MILWAUKEE FLOW	0 GALS		
NAPOLEON FLOW	0 GALS	DISTRICT II	181714500 GALLONS

TREATMENT CHARGES:

	242934	2YR UNIT COST	=	
JUL 1994 100 CU/FT	242934		=	\$0 00
6 MON AVG BOD MG/L		8.34	=	\$0 00
6 MON AVG SS MG/L		8.34	=	\$0 00
6 MON AVG TKN MG/L		8.34	=	\$0 00
6 MON AVG P MG/L		8.34	=	\$0 00
South St (gals)				\$0 00
		TREATMENT CHARGE		\$123,882.48

TRANSPORTATION CHARGE:

\$ 0155/100 CU/FT	242934	100 CU/FT	=	\$3,765.47
		TRANSPORTATION CHARGE		\$3,765.47

DISTRICT II SERVICE CHARGE	\$127,647.95
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WASTEWATER TREATMENT SERVICE CHARGES
 SPRING ARBOR
 JULY 1994 - DECEMBER 1994

END DATE DEC 1994
 BEG DATE JUL 1994

TOTAL FLOW 119612800 GALLONS

TREATMENT CHARGES:

	2YR UNIT COST		
JUL 1994 100 CU/FT		=	\$0.00
6 MON AVG BOD MG/L		8.34 =	\$0.00
6 MON AVG SS MG/L		8.34 =	\$0.00
6 MON AVG TKN MG/L		8.34 =	\$0.00
6 MON AVG P MG/L		8.34 =	\$0.00

TREATMENT CHARGE \$57,743.24

TRANSPORTATION CHARGE:

\$0.01/100 CU/FT 0 100 CU/FT FT = 0

TRANSPORTATION CHARGE \$0.00

PERPETUITY CHARGE:

6 MONTH PERPETUITY CHARGE \$8,970.50

TOTAL 6 MONTH SERVICE CHARGE \$66,713.74
 =====

WASTEWATER TREATMENT SERVICE CHARGES
 NAPOLEON
 JULY 1994 - DECEMBER 1994

END DATE DEC 1994
 BEG DATE JUL 1994

TOTAL FLOW 12077000 GALLONS

TREATMENT CHARGES:

	2YR UNIT COST			
JUL 1994 100 CU/FT	16146		=	\$0.00
6 MON AVG BOD MG/L		8.34	=	\$0.00
6 MON AVG SS MG/L		8.34	=	\$0.00
6 MON AVG TKN MG/L		8.34	=	\$0.00
6 MON AVG P MG/L		8.34	=	\$0.00

TREATMENT CHARGE \$10,077.07

TRANSPORTATION CHARGE:

\$.0157/100 CU/FT 16146 100 CU/FT FT = \$253.49

TRANSPORTATION CHARGE \$250.26

PERPETUITY CHARGE:

6 MONTH PERPETUITY CHARGE \$703.50

TOTAL 6 MONTH SERVICE CHARGE \$11,030.83
 =====

WASTEWATER TREATMENT CHARGES
JANUARY 1995 – JUNE 1995
TOWNSHIPS

SPSM	\$180,256.62
BLACKMAN	\$174,082.87 (a)
SUMMIT DISTRICT I & II	\$282,391.48
SPRING ARBOR	\$77,125.56
NAPOLEON	\$11,150.00
TOTAL	\$725,006.53

(a) INCLUDES MAINTENANCE CHARGES

WASTEWATER TREATMENT AND MAINTENANCE SERVICES CHARGES
FOR
BLACKMAN TOWNSHIP
JANUARY 1995 - JUNE 1995

SOUTHERN MICHIGAN STATE PRISON		\$180,392.20

BLACKMAN MAINTENANCE COST		\$29,730.52

BLACKMAN BULK METERED CHARGES	\$135,566.47	
BLACKMAN METERED ACCOUNTS	\$1,082.36	
BLACKMAN UNMETERED ACCOUNTS	\$7,808.64	
	BLACKMAN TREATMENT CHARGE	\$144,457.47

	SHEET TOTAL	\$354,580.19
		=====

WASTEWATER TREATMENT SERVICE CHARGES
 SOUTHERN MICHIGAN STATE PRISON
 JANUARY 1995 – JUNE 1995

END DATE JUN 1995 METR READ 0
 BEG DATE JAN 1995 METR READ 0 TOTAL FLOW 299341000 GALLONS

TREATMENT CHARGES:

	2YR UNIT COST		
JUN 1995 100 CU/FT	400189	=	\$0.00
6 MON AVG BOD MG/L		8.34 =	\$0.00
6 MON AVG SS MG/L		8.34 =	\$0.00
6 MON AVG TKN MG/L		8.34 =	\$0.00
6 MON AVG P MG/L		8.34 =	\$0.00

TREATMENT CHARGE \$162,620.20

TRANSPORTATION CHARGE

\$.01/100 CU/FT 0 100/CU/FT = \$0.00

PERPETUITY CHARGE:

6 MONTH PERPEUITY CHARGE \$17,772.00

TOTAL 6 MONTH SERVICE CHARGE \$180,392.20
 =====

WASTEWATER TREATMENT SERVICE CHARGES
 BLACKM/KMAN BULK METERED
 JANUARY 1995 - JUNE 1995

RIVER ST

END DATE JUN 1995 METR READ 0
 BEG DATE JAN 1995 METR READ 0 TOTAL FLOW 804699 GALLONS

TREATMENT CHARGES:

	2YR UNIT COST	=	
JAN 1995 100 CU/FT		=	\$0.00
6 MON AVG BOD MG/L	8.34	=	\$0.00
6 MON AVG SS MG/L	8.34	=	\$0.00
6 MON AVG TKN MG/L	8.34	=	\$0.00
6 MON AVG P MG/L	8.34	=	\$0.00
	TREATMENT CHARGE		\$547.33

TRANSPORTATION CHARGE:
 \$ 0155/100 CU/FT

0 100 CU/FT	
TRANSPORTATION CHARGE	\$16.67

MASTER METER

END DATE JUN 1995 METR READ 0
 BEG DATE JAN 1995 METR READ 0 TOTAL 0 GALLONS

MASTER METER 0 MINUS PRISON 0 -MINUS
 ROBINSON RD 0 MINUS 18TH ST 0 =

198984900 GALLONS

TREATMENT CHARGES:

	2YR UNIT COST	=	
JAN 1995 100/CU/FT		=	\$0.00
6 MON AVG BOD MG/L	8.34	=	\$0.00
6 MON AVG SS MG/L	8.34	=	\$0.00
6 MON AVG TKN MG/L	8.34	=	\$0.00
6 MON AVG P MG/L	8.34	=	\$0.00
	TREATMENT CHARGE		\$118,644.49

PERPETUITY CHARGE:

6 MONTHLY PERPETUITY CHARGE	\$16,357.98
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TOTAL	\$135,566.47
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WASTEWATER TREATMENT SERVICE CHARGES
BLACKMAN METERED ACCOUNT
JANUARY 1994 – JUNE 1994

FINLEY'S

END DATE JUN 1994

BEG DATE JAN 1994

TOTAL FLOW

1065 100 CU/FT

TREATMENT CHARGE:

SERVICE CHARGE FOR 1065 100 CU/FT OF FLOW FROM FINLEY'S AT
ASSUMED DOMESTIC STRENGTH IS COMPUTED AS PER EXHIBIT 12 OF
BLACKMAN TOWNSHIP CONTRACT

1065 100 CU/FT X \$.6381/100 CU/FT = \$679.58

TOTAL TREATMENT CHARGE \$679.58

TRANSPORTATION CHARGE:

COST BASED ON FLOW DISCHARGED THROUGH CITY'S TRUNK AND
INTERCEPTOR SEWERS AS PER SCHEDULE DESCRIBED IN EXHIBIT 5 OF
BLACKMAN TOWNSHIP CONTRACT

1065 100 CU/FT X \$ 2974/100 CU/FT = \$316.73

TRANSPORTATION CHARGE \$316.73

DEBT SERVICE CHARGE:

AS PER DESCRIBED IN PARAGRAPH 5C(1)(c) OF BLACKMAN TOWNSHIP
CONTRACT

1065 100 CU/FT X \$.0808/100 CU/FT = \$86.05

TOTAL SERVICE CHARGE FOR FINLEY'S \$1,082.36

WASTEWATER TREATMENT SERVICE CHARGES
BLACKMACKMAN UNMETERED ACCOUNTS
JANUARY 1995 – JUNE 1995

HILLSDALE AND LANSING AVE ACCOUNTS

END DATE JUN 1995
BEG DATE JAN 1995

TREATMENT CHARGES, TRANSPORTATION CHARGE (INTERCEPTOR SEWER),
AND DEBT SERVICE CHARGE EQUALS \$.7344/100 CU/FT X (9)/100 CU/FT
OR \$6.61 PER FACILITY UNIT

64 FACILITY UNITS X \$6.61 = \$2,538.24

GANSON AND BROWN ST ACCOUNTS

END DATE JUN 1995
BEG DATE JAN 1995

TREATMENT CHARGES, TRANSPORTATION CHARGE (TRUNK & INTERCEPTOR
SEWER), AND DEBT SERVICE CHARGE EQUALS \$1.0163/100 CU/FT X (9)
100 CU/FT OR \$9.15 PER FACILITY UNIT

96 FACILITY UNITS X \$9.15 = \$5,270.40

TOTAL \$7,808.64
=====

WASTEWATER TREATMENT SERVICE CHARGES
SUMMIT TOWNSHIP DISTRICT I & II
JANUARY 1995 – JUNE 1995

TREATMENT CHARGE DISTRICT I	\$100,997.59
TREATMENT CHARGE DISTRICT II	\$149,931.51
TRANSPORTATION CHARGE	\$4,374.90
PERPETUITY CHARGE	\$27,087.48
TOTAL SERVICE CHARGE	\$282,391.48

WASTEWATER TREATMENT SERVICE CHARGES
 SUMMIT T TOWNSHIP DISTRICT I
 JANUARY 1995 - JUNE 1995

ROBINSON RD FLOW	0 GALS		
CATALINA RD FLOW	0 GALS	DISTRICT I	1.1E+08 GALLONS

TREATMENT CHARGES:

	2YR UNIT COST		
JUN 1995 100 CU/FT	153138	=	\$0.00
6 MON AVG BOD MG/L		8.34 =	\$0.00
6 MON AVG SS MG/L		8.34 =	\$0.00
6 MON AVG TKN MG/L		8.34 =	\$0.00
6 MON AVG P MG/L		8.34 =	\$0.00

TREATMENT CHARGE	\$79,256.78
------------------	-------------

18TH ST. FLOW	24195600 GALS
---------------	---------------

TREATMENT CHARGES:

	2YR UNIT COST		
JUN 1995 100 CU/FT	32347	=	\$0.00
6 MON AVG BOD MG/L		8.34 =	\$0.00
6 MON AVG SS MG/L		8.34 =	\$0.00
6 MON AVG TKN MG/L		8.34 =	\$0.00
6 MON AVG P MG/L		8.34 =	\$0.00

TREATMENT CHARGE	\$21,740.81
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DISTRICT I SERVICE CHARGES	\$100,997.59
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WASTEWATER TREATMENT SERVICE CHARGES
 SPRING ARBOR
 JANUARY 1995 - JUNE 1995

END DATE JUN 1995
 BEG DATE JAN 1995

TOTAL FLOW 125207200 GALLONS

TREATMENT CHARGES:

	2YR UNIT COST			
JUN 1995 100 CU/FT		=		\$0.00
6 MON AVG BOD MG/L		8.34	=	\$0.00
6 MON AVG SS MG/L		8.34	=	\$0.00
6 MON AVG TKN MG/L		8.34	=	\$0.00
6 MON AVG P MG/L		8.34	=	\$0.00

TREATMENT CHARGE \$68,211.83

TRANSPORTATION CHARGE:

\$0.01/100 CU/FT 0 100 CU/FT FT = 0

TRANSPORTATION CHARGE \$0.00

PERPETUITY CHARGE:

6 MONTHLY PERPETUITY CHARGE \$8,970.50

TOTAL 6 MONTH SERVICE CHARGE \$77,182.33

=====

WASTEWATER TREATMENT SERVICE CHARGES
NAPOLEON
JANUARY 1995 - JUNE 1995

END DATE JUN 1995

BEG DATE JAN 1995

TOTAL FLOW 12123780 GALLONS

TREATMENT CHARGES:

	2YR UNIT COST		
JUN 1995 100 CU/FT	16208	=	\$0.00
6 MON AVG BOD MG/L		8.34 =	\$0.00
6 MON AVG SS MG/L		8.34 =	\$0.00
6 MON AVG TKN MG/L		8.34 =	\$0.00
6 MON AVG P MG/L		8.34 =	\$0.00

TREATMENT CHARGE \$10,108.40

TRANSPORTATION CHARGE:

\$0.0157/100 CU/FT 16208 100 CU/FT FT = \$254.47

TRANSPORTATION CHARGE \$251.72

PERPETUITY CHARGE:

6 MONTHLY PERPETUITY CHARGE \$703.50

TOTAL 6 MONTH SERVICE CHARGE \$11,063.62

TOWNSHIP BILLING ADJUSTMENTS FOR
 TWELVE MONTH PERIOD JULY 1994 – JUN 1995

	INVOICED PER/YEAR	ACTUAL PER/YEAR	DIFFERENCE PER/YEAR
	JUL94/JUN95	JUL94/JUN95	JUL94/JUN95
PRISON	\$547,936.13	\$395,821.11	\$152,115.02
SPR ARBOR	\$191,004.07	\$143,895.97	\$47,108.10
NAPOLEON	\$30,995.27	\$22,094.45	\$8,900.82
SUMMIT	\$728,160.12	\$537,052.55	\$191,107.57
BLACKMAN	\$391,268.45	\$312,913.33	\$78,355.12
=====	=====	=====	=====
TOTAL	\$1,889,364.04	\$1,411,777.41	\$477,586.63

AMOUNT TO BE CREDITED TO THE PRISON	\$152,115.02
AMOUNT TO BE CREDITED TO SPRING ARBOR	\$47,108.10
AMOUNT TO BE CREDITED TO NAPOLEON	\$8,900.82
AMOUNT TO BE CREDITED TO SUMMIT	\$191,107.57
AMOUNT TO BE CREDITED TO BLACKMAN	\$78,355.12
TOTAL OF ALL TOWNSHIPS	----- \$477,586.63

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Revised 8/30/95 1995-96 PROJECTED

Perpetuity

ACTIVITY ==>	549	550	551	553	554
CLASSIFICATION	COLLECTION	WW TRTMNT	MAINT.	SLUDGE HANDLING	ADMIN.

GROSS SALARIES & WAGES

706 SALARIES & WAGE	\$55,902	\$288,737	\$83,713	\$58,822	\$107,141
707 WAGES-TEMPORARY	\$0	\$27,500	\$27,000	\$0	\$11,572
713 BEREAVEMENT PAY	\$0	\$0	\$0	\$0	\$0
716 COMPENSATORY	\$0	\$0	\$0	\$0	\$0
717 HOLIDAY PAY	\$0	\$0	\$0	\$0	\$0
718 SICK PAY	\$0	\$0	\$0	\$0	\$0
723 VACATION PAY	\$0	\$0	\$0	\$0	\$0
TOTAL	\$55,902	\$316,237	\$110,713	\$58,822	\$118,713

OTHER SALARIES & FRINGES

702 PAY OFF	\$0	\$0	\$0	\$0	\$0
708 SHIFT PAY	\$0	\$0	\$0	\$0	\$0
709 OVERTIME	\$4,221	\$31,999	\$3,569	\$4,243	\$0
712 ACTING PAY	\$0	\$0	\$0	\$0	\$0
714 DOUBLE OVERTIME	\$0	\$0	\$0	\$0	\$0
715 EMPLOYERS' FICA	\$4,600	\$24,535	\$6,676	\$4,824	\$9,082
719 HOSPITAL INSURANCE	\$13,256	\$45,949	\$18,898	\$13,256	\$8,085
720 LIFE INSURANCE	\$0	\$0	\$0	\$0	\$0
722 GEN PEN FD CONT	\$3,846	\$8,086	\$2,183	\$1,577	\$2,679
724 UNEMPLOYMENT COMP	\$152	\$684	\$228	\$152	\$228
724 WORKERS' COMP	\$2,519	\$13,469	\$3,658	\$2,643	\$4,525
725 OTHER FRINGES	\$1,374	\$6,252	\$2,084	\$1,374	\$1,420
TOTAL	\$29,968	\$130,974	\$37,296	\$28,069	\$26,019
TOTAL PERSONAL SERVICES	\$85,870	\$447,211	\$148,009	\$86,891	\$144,732

MATERIAL & SUPPLIES

726 SUPPLIES	\$0	\$0	\$0	\$0	\$1,200
740 OPERATING SUPPLIES	\$1,000	\$3,000	\$3,000	\$1,000	\$1,600
743 CHEMICALS	\$0	\$84,500	\$0	\$0	\$0
748 LABORATORY SUPPLIES	\$0	\$16,000	\$0	\$2,500	\$0
749 DIESEL FUEL	\$0	\$0	\$0	\$0	\$0
751 GASOLINE	\$1,200	\$400	\$400	\$7,000	\$0
751 LUBRICANTS	\$0	\$0	\$2,000	\$0	\$0
755 SAFETY SUPPLIES	\$2,000	\$5,000	\$2,000	\$1,500	\$0
758 LAUNDRY	\$500	\$2,400	\$1,000	\$500	\$0
759 SMALL TOOLS	\$0	\$0	\$0	\$0	\$0
776 BUILDING & CUST	\$0	\$0	\$1,700	\$0	\$0
778 EQUIPMENT MAINT	\$5,000	\$0	\$24,000	\$3,000	\$0
778 ELECTRICAL SUPPLIES	\$0	\$0	\$6,000	\$0	\$0
TOTAL	\$9,700	\$111,300	\$40,100	\$15,500	\$2,800

Revised 8/30/95 1995-96 PROJECTED

Perpetuity

ACTIVITY ==>	549	550	551	553	554
		WW		SLUDGE	
CLASSIFICATION	COLLECTION	TRTMNT	MAINT	HANDLING	ADMIN.

CONTRACTUAL & OTHERS

719 HOSP INS-RETIRE	\$9,051	\$0	\$0	\$0	\$0
808 AUDIT FEES	\$0	\$0	\$0	\$0	\$3,326
816 IND PRETRT PROGRAM	\$0	\$50,000	\$0	\$0	\$0
817 CONSULTANT	\$0	\$0	\$0	\$0	\$15,000
818 CONTRACTUAL SERV	\$3,000	\$23,000	\$12,000	\$47,000	\$1,200
818.1 C/SER-GRS MAINT	\$0	\$0	\$25,000	\$0	\$0
818.1 C/SER-INS MAINT	\$2,000	\$0	\$23,000	\$0	\$0
818.1 C/SER-DIG CLEAN	\$0	\$0	\$0	\$0	\$0
850 COMMUNICATIONS	\$5,000	\$2,000	\$0	\$0	\$0
853 TELEPHONE	\$0	\$0	\$0	\$0	\$2,500
861 AUTO ALLOWANCE	\$0	\$0	\$0	\$0	\$200
873 TRAVEL	\$0	\$0	\$0	\$0	\$500
880 COMMUNITY PROMO	\$0	\$0	\$0	\$0	\$0
902 ADVERTISING	\$0	\$0	\$0	\$0	\$1,500
914 CM/LIAB/CAR INS	\$3,784	\$0	\$56,352	\$3,154	\$0
920 PUBLIC UTILITIES	\$32,000	\$312,000	\$0	\$0	\$0
921 UTILITIES-GAS	\$0	\$0	\$0	\$15,000	\$0
930 REPAIRS& MAINT	\$20,000	\$0	\$35,000	\$0	\$2,600
931 BUILDING MAINT	\$0	\$0	\$15,000	\$0	\$0
932 EQUIPMENT REPAIR	\$0	\$0	\$0	\$0	\$0
933 EQUIPMENT MAINT	\$0	\$4,000	\$0	\$5,000	\$0
934 OFFICE EQ-MAINT	\$0	\$0	\$0	\$0	\$0
938 GROUNDS MAINT	\$0	\$0	\$12,000	\$0	\$0
938 SEWER MAINT/DPW	\$274,800	\$0	\$0	\$0	\$0
938.9 SEWER MAINT/WATER	\$12,000	\$0	\$0	\$0	\$0
939 VEHICLE MAINT	\$2,000	\$2,000	\$2,000	\$8,000	\$0
939 VEHICLE SERVICE	\$0	\$0	\$0	\$8,000	\$0
943 EQUIP RENT & LEASE	\$1,000	\$0	\$500	\$4,000	\$0
956 CONTINGENCY	\$0	\$0	\$0	\$0	\$0
958 MEMBERSHIPS/DUE	\$0	\$0	\$0	\$0	\$500
960 EDUCATION/TRAINING	\$0	\$0	\$0	\$0	\$3,000
963 Sundry	\$5,000	\$0	\$0	\$0	\$0
964 BILLING ADJUSTMENT	\$0	\$0	\$0	\$0	\$0
999.1 CONTR-SS RPL FD	\$500,000	\$0	\$0	\$0	\$0
999.1 CONTR-EQ RPL FD	\$19,867	\$52,613	\$161,667	\$69,624	\$0
965 ADM CHG TO G/F	\$0	\$0	\$0	\$0	\$145,000
999.2 CONTR-SWR FAC F	\$0	\$0	\$0	\$0	\$55,496
999.3 CONT-1987 ENERGY	\$0	\$0	\$0	\$0	\$4,054
999.9 CONTR-WATER FUND	\$0	\$0	\$0	\$0	\$154,902
TOTAL	\$889,502	\$445,613	\$342,519	\$159,778	\$389,778

DEBT SERVICE

995 INTEREST					\$68,575
996 PAYING AGENT FEE					\$1,050
TOTAL					\$69,625

ACTIVITY TOTAL	\$985,072	\$1,004,124	\$530,628	\$262,169	\$606,935
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CITY OF JACKSON
DEBT SERVICE & CAPITAL ACQUISITIONS

SEWER DISPOSAL REVENUE BONDS – PRINCIPAL	
SERIES I 1994 bond PLANT IMPROVEMENTS	\$50,000
SERIES II	\$0
SERIES III	\$0

TOTAL	=====
	\$50,000

ANNUAL TOWNSHIP PERPETUITY CHARGE		
1971 AND PRIOR	Actual perpetuity charge for Prison	\$72,664
AFTER 1971	and Napoleon based on 2.0 mgd and .1 mgd.	\$72,271
	respectively. Approved 7/11/95 City commision	=====

TOTAL	\$144,935
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FUND 590, ACTIVITY 555 – CAPITAL ACQUISITIONS	\$500,000
Bond payment, interest, agent fee, and capital added to location bt25. on spread sheet for township unit cost determination.	

CITY OF JACKSON
ANNUAL BILLABLE FLOW USING SUMMER SEWER AVERAGES

DESCRIPTION	<== NO. OF CUSTOMERS ==>		BILLABLE FLOW (HCF)
	QUARTERLY	MONTHLY	
INSIDE CITY			
RESIDENTIAL	11,041	8	1,053,073
COMMERCIAL	721	416	599,591
INDUSTRIAL	43	108	665,241
OUTSIDE CITY			
RESIDENTIAL	28	0	2,036
COMMERCIAL	21	18	72,056
INDUSTRIAL	3	13	146,353
FLAT RATE - INSIDE CITY			
RESIDENTIAL	3	0	1,276
COMMERCIAL	0	1	240
FLAT RATE - OUTSIDE CITY			
RESIDENTIAL	13	0	11,948
COMMERCIAL	0	0	0
TOTAL	11,873	564	2,551,814

CITY OF JACKSON
METER SIZE TABLE

METER SIZE	<===== CUSTOMER CLASS =====>			TOTAL
	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	
5/8"	10,580	430	23	11,033
3/4"	456	174	22	652
1"	163	261	29	453
1 1/2"	22	179	39	240
2"		105	26	131
3"		58	21	79
4"		40	22	62
6"		3	5	8
8"		1	0	1
TOTAL	11,221	1,251	187	12,659
	Idle meters =		100	12759

Completed 9/1/95

CITY OF JACKSON
OUTSIDE CITY BULK FLOW & WASTEWATER STRENGTH

TOWNSHIP	FLOW (MGD)	BOD (mg/L)	SS (mg/L)	P (mg/L)	TKN (mg/L)
BLACKMAN TOWNSHIP					
MASTER METER – OTHERS	1.019	166	158	2.8	18.1
RIVER STREET METER	0.005	220	200	4.4	23
MICHIGAN STATE PRISON	1.634	186	282	5.1	15
SUMMIT TOWNSHIP					
MILWAUKEE DISTRICT II	1.04	186	269	4.9	22.8
ROBINSON DISTRICT I	0.631	197	286	4.7	16.6
18th STREET METER	0.124	213	360	4.8	20.9
NAPOLEON TOWNSHIP	0.067	218	364	5.1	26.8
SPRING ARBOR TOWNSHIP	0.67	125	158	3.8	14.9
TOTAL	5.19				

CITY OF JACKSON
WASTEWATER TREATMENT PLANT OM&R

BUDGET ITEM	ANNUAL BUDGET	TOTAL
PERSONNEL SERVICES		
A550 WASTE WATER TREATMENT	\$447,211	
A551 MAINTENANCE	\$148,009	
A553 SLUDGE HANDLING	\$86,891	
A554 ADMINISTRATION	\$144,732	
TOTAL		\$826,843
POWER (A550,920)	\$312,000	\$312,000
CHEMICALS (A550,743)	\$84,500	\$84,500
MAINTENANCE		
A550 WASTEWATER TREATMENT	\$445,613	
920 POWER	(\$312,000)	
965.06 CONTR-EQ RPL FD	(\$52,613)	
A551 MAINTENANCE	\$342,519	
965.06 CONTR-EQ RPL FD	(\$161,667)	
A553 SLUDGE HANDLING	\$159,778	
965.06 CONTR-EQ RPL FD	(\$69,624)	
TOTAL		\$352,006
SUPPLIES		
A550 WASTERWATER TREATMENT	\$111,300	
743 CHEMICALS	(\$84,500)	
A551 MAINTENANCE	\$40,100	
A553 SLUDGE HANDLING	\$15,500	
TOTAL		\$82,400
ADMINISTRATION		
A554 ADMINISTRATION	\$389,778	
965.91 CONTR-WATER FUN	(\$154,902)	
965.21 CONTR-SWR FAC F	(\$55,496)	
SUPPLIES	\$2,800	
TOTAL		\$182,180
EQUIPMENT REPLACEMENT		
A550 WASTEWATER TREATMENT	\$52,613	
A551 MAINTENANCE	\$161,667	
A553 SLUDGE HANDLING	\$69,624	
TOTAL		\$283,904
TOTAL ANNUAL OM&R EXPENSES		\$2,123,833

CITY OF JACKSON
PROPOSED BILLING CHARGE & ANNUAL REVENUES

DESCRIPTION	<= NO. OF CUSTOMERS =:		NO. OF BILLS PER YEAR	ANNUAL REVENUES
	QUARTERLY	MONTHLY		
=====				
INSIDE CITY				
RESIDENTIAL	11,041	8	44260	\$126,584
COMMERCIAL	721	416	7876	\$22,525
INDUSTRIAL	43	108	1468	\$4,198
OUTSIDE CITY				
RESIDENTIAL	28	0	112	\$320
COMMERCIAL	21	18	300	\$858
INDUSTRIAL	3	13	168	\$480
FLAT RATE – INSIDE CITY				
RESIDENTIAL	3	0	12	\$34
COMMERCIAL	0	1	12	\$34
FLAT RATE – OUTSIDE CITY				
RESIDENTIAL	13	0	52	\$149
COMMERCIAL	0	0	0	\$0
=====				
TOTAL	11,873	564	54,260	\$155,184

ANNUAL BILLING EXPENSE \$154,902

NUMBER OF BILLS PER YEAR 54,260

CHARGE PER BILL \$2.86

CITY OF JACKSON
METER EQUIVALENTS CALCULATIONS

METER SIZE	<== NO. OF METERS ==>			METER EQUIV.	<=== NO. OF EQUIV. METERS =====>				
	RES.	COMM.	IND.		RES.	COMM.	IND.	TOTAL	
*									
5/8"	10,583	444	23	1	10,583	444	23	11,050	
3/4"	456	174	22	1.67	762	291	37	1,090	
1"	163	261	29	2.67	435	697	77	1,209	
1 1/2"	22	179	39	6.67	147	1,194	260	1,601	
2"	0	105	26	10	0	1,050	260	1,310	
3"	0	58	21	20	0	1,160	420	1,580	
4"	0	40	22	73.33	0	2,933	1,613	4,546	
6"	0	3	5	166.67	0	500	833	1,333	
8"	0	1	0	500	0	500	0	500	
TOTAL	11,224	1,265	187		11,927	8,769	3,523	24,219	

* INCLUDES FLAT RATE CUSTOMERS

CITY OF JACKSON
PROPOSED EQUIVALENT METER READINESS TO SERVE CHARGE

SEWAGE DISPOSAL REVENUE BONDS PRINCIPAL	\$50,000
DEBT SERVICE	\$69,625
CAPITAL ACQUISITIONS	\$500,000
PERPETUITY CHARGE FROM TOWNSHIPS (1971 & PRIOR)	(\$72,664)
CAPITAL CHARGE FROM TOWNSHIPS	(\$308,013)
TOTAL	=====
	\$238,948
EQUIVALENT METERS	24,219
CHARGE/EQUIVALENT METEF PER YEAR	\$9.87
PER QUARTER	\$2.47
PER MONTH	\$0.83

CITY OF JACKSON
 PROPOSED READINESS TO SERVE CHARGE & ANNUAL REVENUES

METER SIZE	QUARTERLY READINESS TO SERVE CHARGE	NO. OF METERS =>			ANNUAL REVENUES =====			TOTAL
		RES.	COMM.	IND.	RES.	COMM.	IND.	
* =====								
5/8"	\$2.47	10,583	444	23	\$104,560	\$4,387	\$227	\$109,174
3/4"	\$4.13	456	174	22	\$7,533	\$2,874	\$363	\$10,770
1"	\$6.60	163	261	29	\$4,303	\$6,890	\$766	\$11,959
1 1/2"	\$16.48	22	179	39	\$1,450	\$11,800	\$2,571	\$15,821
2"	\$24.70	0	105	26	\$0	\$10,374	\$2,569	\$12,943
3"	\$49.40	0	58	21	\$0	\$11,461	\$4,150	\$15,611
4"	\$181.13	0	40	22	\$0	\$28,981	\$15,939	\$44,920
6"	\$411.68	0	3	5	\$0	\$4,940	\$8,234	\$13,174
8"	\$1,235.00	0	1	0	\$0	\$4,940	\$0	\$4,940
=====								
TOTAL		11,224	1,265	187	\$117,846	\$86,647	\$34,819	\$239,312

* INCLUDES FLAT RATE CUSTOMERS

CITY OF JACKSON
PROPOSED COMMODITY CHARGE

WASTE WATER TREATMENT OM&R	\$2,123,833
SANITARY SEWER OM&R	\$985,072
TOWNSHIP TREATMENT CHARGE REVENUES	(\$1,071,094)
TOWNSHIP TRANSPORTATION CHARGE REVENUES	(\$8,851)
LIFT STATION MAINTENANCE – BLACKMAN TOWNSHIP	(\$46,000)
	=====
TOTAL	\$1,982,960
 BILLABLE FLOW	 2,551,814
 COMMODITY CHARGE	 \$0.78
10% CONTINGENCY	\$0.08
	=====
TOTAL COMMODITY CHARGE	\$0.85

CITY OF JACKSON
PROPOSED COMMODITY CHARGE ANNUAL REVENUES

DESCRIPTION	BILLABLE FLOW (HCF)	ANNUAL REVENUES
=====		
INSIDE CITY		
RESIDENTIAL	1,053,073	\$895,112
COMMERCIAL	599,591	\$509,652
INDUSTRIAL	665,241	\$565,455
OUTSIDE CITY		
RESIDENTIAL	2,036	\$1,731
COMMERCIAL	72,056	\$61,248
INDUSTRIAL	146,353	\$124,400
FLAT RATE – INSIDE CITY		
RESIDENTIAL	1,276	\$1,085
COMMERCIAL	240	\$204
FLAT RATE – OUTSIDE CITY		
RESIDENTIAL	11,948	\$10,156
COMMERCIAL	0	\$0
	=====	
TOTAL	2,551,814	\$2,169,042

CITY OF JACKSON
 PROPOSED OUTSIDE CITY BULK TRANSPORTATION CHARGE REVENUES

METER LOCATION	FLOW (MGD)	CHARGE PER HCF	ANNUAL REVENUES
BLACKMAN TWP – RIVER ST.	0.005	\$0.0158	\$39
SUMMIT TWP	1.076	\$0.0158	\$8,295
NAPOLEAN TWP – MILWAUKEE ST	0.067	\$0.0158	\$517
<hr/>			
TOTAL	1.148		\$8,851

CITY OF JACKSON
PROPOSED EXTRA STRENGTH WASTEWATER SURCHARGES

DESCRIPTION	TOTAL COST		FLOW		BOD	
	\$	%	\$	%	\$	%
PERSONNEL	\$826,843	25	\$206,711	25	\$206,711	
POWER	\$312,000	20	\$62,400	50	\$156,000	
CHEMICALS	\$84,500	25	\$21,125	0	\$0	
MAINTENANCE	\$352,006	50	\$176,003	20	\$70,401	
SUPPLIES	\$82,400	15	\$12,360	35	\$28,840	
ADMINISTRATION	\$182,180	100	\$182,180	0	\$0	
EQUIP. REPL.	\$283,904	30	\$85,171	30	\$85,171	
TOTAL OM&R COST	\$2,123,833	35	\$745,950	26	\$547,123	
ANNUAL LOAD			14.3 MGD		4,935,590	
OM&R COST PER UNIT			\$0.1069 /HCF		\$0.1109	
CAPITAL ACQUISITIONS, Bond paymt, int, agent fee	\$619,625	35	\$216,869	26	\$161,103	
CAPITAL COST PER UNIT			\$0.0311 /HCF		\$0.0326	
TOTAL COST PER UNIT			\$0.1380 /HCF		\$0.1435	

EXTRA STRENGTH SURCHARGE (continued)

DESCRIPTION	<===== SS =====<		===== P =====<		===== TKN =====>	
	%	\$	%	\$	%	\$
PERSONNEL	25	\$206,711	10	\$82,684	15	\$124,026
POWER	10	\$31,200	5	\$15,600	15	\$46,800
CHEMICALS	5	\$4,225	70	\$59,150	0	\$0
MAINTENANCE	20	\$70,401	5	\$17,600	5	\$17,600
SUPPLIES	40	\$32,960	5	\$4,120	5	\$4,120
ADMINISTRATION	0	\$0	0	\$0	0	\$0
EQUIP. REPL.	30	\$85,171	5	\$14,195	5	\$14,195
TOTAL OM&R COST	20	\$430,668	9	\$193,349	10	\$206,741
ANNUAL LOAD		4,906,535 LBS		192,121 LBS		666,069
OM&R COST PER UNIT		\$0.0878 /LB		\$1.0064 /LB		\$0.3104
CAPITAL ACQUISITIONS, Bond paymt,int,agent fee	20	\$123,925	9	\$55,766	10	\$61,963
CAPITAL COST PER UNIT		\$0.0253 /LB		\$0.2903 /LB		\$0.0930
TOTAL COST PER UNIT		\$0.1131 /LB		\$1.2967 /LB		\$0.4034

CITY OF JACKSON
 PROPOSED OUTSIDE CITY BULK
 WASTEWATER TREATMENT CHARGE ANNUAL REVENUES

CUSTOMER	<===== FLOW =====>		
	(MGD)	O&M	CAPITAL
UNIT COST		\$0.1069	\$0.0311
BLACKMAN TOWNSHIP			
MASTER METER	1.019	\$53,151	\$15,463
RIVER STREET METER	0.005	\$261	\$76
MICHIGAN STATE PRISON	1.634	\$85,229	\$24,795
SUMMIT TOWNSHIP			
MILWAUKEE STREET METER	1.04	\$54,246	\$15,782
ROBINSON ROAD METER	0.631	\$32,913	\$9,575
18th STREET METER	0.124	\$6,468	\$1,882
NAPOLEAN TOWNSHIP	0.067	\$3,495	\$1,017
SPRING ARBOR TOWNSHIP	0.67	\$34,947	\$10,167
=====			
TOTAL	5.19	\$270,710	\$78,757
		TOTAL OM&R	\$1,072,637
		TOTAL CAPITAL	\$308,459
		=====	
		TOTAL TREATMENT	\$1,381,096

BULK TREATMENT CHARGE REVENUES (continued)

CUSTOMER	BOD			SS		
	(mg/L)	O&M	CAPITAL	(mg/L)	O&M	CAPITAL
UNIT COST		\$0.1109	\$0.0326		\$0.0878	\$0.0253
BLACKMAN TOWNSHIP						
MASTER METER	166	\$57,103	\$16,014	158	\$43,030	\$12,399
RIVER STREET METER	220	\$371	\$104	200	\$267	\$77
MICHIGAN STATE PRISON	186	\$102,599	\$28,772	282	\$123,152	\$35,487
SUMMIT TOWNSHIP						
MILWAUKEE STREET METER	186	\$67,562	\$18,947	269	\$77,358	\$22,291
ROBINSON ROAD METER	197	\$41,365	\$11,600	286	\$47,544	\$13,700
18th STREET METER	213	\$8,844	\$2,480	360	\$11,834	\$3,410
NAPOLEAN TOWNSHIP	218	\$4,931	\$1,383	364	\$6,518	\$1,878
SPRING ARBOR TOWNSHIP	125	\$26,373	\$7,396	158	\$26,392	\$7,605
TOTAL		\$309,148	\$86,696		\$336,095	\$96,847

BULK TREATMENT CHARGE REVENUES (continued)

CUSTOMER	P			TKN		
	(mg/L)	O&M	CAPITAL	(mg/L)	O&M	CAPITAL
UNIT COST		\$1.0064	\$0.2903		\$0.3104	\$0.0930
BLACKMAN TOWNSHIP						
MASTER METER	2.8	\$8,741	\$2,521	18.1	\$17,427	\$5,221
RIVER STREET METER	4.4	\$67	\$19	23	\$109	\$33
MICHIGAN STATE PRISON	5.1	\$25,529	\$7,364	15	\$23,158	\$6,939
SUMMIT TOWNSHIP						
MILWAUKEE STREET METER	4.9	\$16,152	\$4,659	22.8	\$23,180	\$6,945
ROBINSON ROAD METER	4.7	\$8,956	\$2,583	16.6	\$9,756	\$2,923
18th STREET METER	4.8	\$1,809	\$522	20.9	\$2,429	\$728
NAPOLEAN TOWNSHIP	5.1	\$1,047	\$302	26.8	\$1,697	\$508
SPRING ARBOR TOWNSHIP	3.8	\$7,276	\$2,099	14.9	\$8,799	\$2,636
TOTAL		\$69,577	\$20,069		\$86,555	\$25,933

CITY OF JACKSON
 PROPOSED OUTSIDE CITY BULK WASTEWATER ANNUAL REVENUES

CUSTOMER	TRANS. REVENUES	TREATMENT REVENUES	PERPETUITY REVENUES	TOTAL
BLACKMAN TOWNSHIP				
MASTER METER		\$231,070		
RIVER STREET METER	\$39	\$1,384		
SUB-TOTAL	\$39	\$232,454	\$32,716	\$265,209
MICHIGAN STATE PRISON		\$463,024	\$37,289	\$500,313
SUMMIT TOWNSHIP				
MILWAUKEE STREET METER	\$8,295	\$309,546		
ROBINSON ROAD METER		\$180,309		
18th STREET METER		\$40,338		
SUB-TOTAL	\$8,295	\$530,193	\$54,175	\$592,663
NAPOLEAN TOWNSHIP	\$517	\$22,776	\$2,814	\$26,107
SPRING ARBOR TOWNSHIP		\$130,660	\$17,941	\$148,601
TOTAL	\$8,851	\$1,379,107	\$144,935	\$1,532,893

CITY OF JACKSON
TOTAL WASTEWATER DISPOSAL SYSTEM EXPENSES

ACTIVITY 549 – COLLECTION	\$985,072
ACTIVITY 550 – WASTEWATER TREATMENT	\$1,004,124
ACTIVITY 551 – MAINTENANCE	\$530,628
ACTIVITY 553 – SLUDGE HANDLING	\$262,169
ACTIVITY 554 – ADMINISTRATION	\$606,935
ACTIVITY 555 – CAPITAL ACQUISITIONS	\$500,000
BOND PRINCIPAL	\$50,000
	=====
TOTAL	\$3,938,928

CITY OF JACKSON
PROPOSED TOTAL WASTEWATER DISPOSAL SYSTEM REVENUES

BILLING CHARGE	\$155,184
READINESS TO SERVE CHARGE	\$239,312
COMMODITY CHARGE	\$2,169,042
OUTSIDE CITY BULK ANNUAL REVENUES	\$1,532,893
LIFT STATION MAINTENANCE – BLACKMAN TOWNSHIP	\$46,000
	=====
TOTAL	\$4,142,431

May 1995 – October 1995

SPRING ARBOR

DATE	FLOW	BOD	SS	TKN	P

Twelve month avg JUL95 – JUN96	0.670	124	178	15.2	4.6

18TH

DATE	FLOW	BOD	SS	TKN	P

Twelve month avg JUL95 – JUN96	0.124	214	398	25.6	6.4

NAPOLEON

DATE	FLOW	BOD	SS	TKN	P

Twelve month avg JUL95 – JUN96	0.067	214	386	30.6	6.9

PRISON

DATE	FLOW	BOD	SS	TKN	P

Twelve month avg JUL95 – JUN96	1.634	209	407	19.8	6.8

DISTRICT I (ROBINSON-CATALINA)

DATE	FLOW	BOD	SS	TKN	P

Twelve month avg JUL95 – JUN96	0.631	194	271	15.1	5.4

DISTRICT II (MILWAUKEE-NAPOLEON)

DATE	FLOW	BOD	SS	TKN	P

Twelve month avg JUL95 – JUN96	1.040	189	269	23.9	5.6

CITY METER

DATE	FLOW	BOD	SS	TKN	P

Twelve month avg JUL95 – JUN96	14.300	100	90	10.9	3.6

BLACKMAN

DATE	FLOW	BOD	SS	TKN	P

Twelve month avg JUL95 – JUN96	1.015	208	194	21.1	4.2

ROBINSON

DATE	FLOW	BOD	SS	TKN	P

Twelve month avg JUL95 – JUN96	1.301	153	213	15.1	4.9

MILWAUKEE

DATE	FLOW	BOD	SS	TKN	P

Twelve month avg JUL95 – JUN96	1.107	190	279	24.2	6.0

WASTEWATER TREATMENT CHARGES
JULY 1995 PROJECTED
TOWNSHIPS

SPSM	\$53,825.88
BLACKMAN	\$38,041.86 (a)
SUMMIT DISTRICT I & II	\$57,104.25
SPRING ARBOR	\$14,934.15
NAPOLEON	\$2,770.72
TOTAL	\$166,676.86

(a) INCLUDES MAINTENANCE CHARGES

WASTEWATER TREATMENT AND MAINTENANCE SERVICES CHARGES
FOR
BLACKMAN TOWNSHIP
JULY 1995 PROJECTED

SOUTHERN MICHIGAN STATE PRISON		\$53,825.88

BLACKMAN MAINTENANCE COST		\$4,469.37

BLACKMAN BULKMETERED CHARGES	\$31,667.29	
BLACKMAN METERED ACCOUNTS	\$249.52	
BLACKMAN UNMETERED ACCOUNTS	\$1,655.68	
	BLACKMANTREATMENT CHARGE	\$33,572.49

	SHEET TOTAL	\$91,867.74
		=====

WASTEWATER TREATMENT SERVICE CHARGES
 SOUTHERN MICHIGAN STATE PRISON
 JULY 1995

END DATE AUG 1995 METR READ 3119309
 BEG DATE JUL 1995 METR READ 3065101 TOTAL FLOW 54208000 GALLONS

TREATMENT CHARGES:

		2YR UNIT			
		COST			
JUL 1995	100 CU/FT	72471	\$0.1380	=	\$10,000.94
6 MON AVG	BOD MG/L	205	\$0.1435	8.34 =	\$13,299.50
6 MON AVG	SS MG/L	391	\$0.1131	8.34 =	\$19,992.58
6 MON AVG	TKN MG/L	19.5	\$0.4034	8.34 =	\$3,556.31
6 MON AVG	P MG/L	6.6	\$1.2967	8.34 =	\$3,869.13

TREATMENT CHARGE \$50,718.46

TRANSPORTATION CHARGE

\$.01/100 CU/FT 0 100/CU/FT = \$0.00

PERPETUITY CHARGE:

MONTHLY PERPEUITY CHARGE \$3,107.42

TOTAL MONTHLY SERVICE CHARGE =====
\$53,825.88

WASTEWATER TREATMENT SERVICE CHARGES
BLACKMAN BULKMETERED
JULY 1995 PROJECTED

RIVER ST.

END DATE AUG 1995 METR READ 39323930
BEG DATE JUL 1995 METR READ 39179613 TOTAL FLOW 144317 GALLONS

TREATMENT CHARGES:

		2YR UNIT					
		COST					
JUL 1995	100 CU/FT	193	\$0.1380	=		\$26.63	
6 MON AVG	BOD MG/L	220	\$0.1435	8.34	=	\$38.00	
6 MON AVG	SS MG/L	200	\$0.1131	8.34	=	\$27.23	
6 MON AVG	TKN MG/L	23	\$0.4034	8.34	=	\$11.17	
6 MON AVG	P MG/L	4.4	\$1.2967	8.34	=	\$6.87	

TREATMENT CHARGE \$109.90

TRANSPORTATION CHARGE:
\$.0157/100 CU/FT

193 100 CU/FT
TRANSPORTATION CHARGE \$3.03

MASTER METER

END DATE AUG 1995 METR READ 599426
BEG DATE JUL 1995 METR READ 461074 TOTAL 138352000 GALLONS

MASTER METER	138352000	-MINUS	PRISON	54208000	-MINUS
ROBINSON RD	39661500	-MINUS	18TH ST	3337400	=
				41145100	GALLONS

TREATMENT CHARGES:

		2YR UNIT					
		COST					
JUL 1995	100/CU/FT	55007	\$0.1380	=		\$7,590.94	
6 MON AVG	BOD MG/L	206	\$0.1435	8.34	=	\$10,143.86	
6 MON AVG	SS MG/L	168	\$0.1131	8.34	=	\$6,520.13	
6 MON AVG	TKN MG/L	21	\$0.4034	8.34	=	\$2,837.75	
6 MON AVG	P MG/L	4	\$1.2967	8.34	=	\$1,735.35	

TREATMENT CHARGE \$28,828.03

PERPETUITY CHARGE:

MONTHLY PERPETUITY CHARGE \$2,726.33

TOTAL \$31,667.29

WASTEWATER TREATMENT SERVICE CHARGES
BLACKMAN METERED ACCOUNT
JULY 1995 PROJECTED

FINLEY'S AMERICAN RESTAURANT

END DATE AUG 1995

BEG DATE JUL 1995

TOTAL FLOW

197 100 CU/FT

TREATMENT CHARGE:

SERVICE CHARGE FOR 197 100 CU/FT OF FLOW FROM FINLEY'S AT
ASSUMED DOMESTIC STRENGTH IS COMPUTED AS PER EXHIBIT 12 OF
BLACKMAN TOWNSHIP CONTRACT

197 100 CU/FT X \$.7199/100 CU/FT = \$141.82

TOTAL TREATMENT CHARGE \$141.82

TRANSPORTATION CHARGE:

COST BASED ON FLOW DISCHARGED THROUGH CITY'S TRUNK AND
INTERCEPTOR SEWERS AS PER SCHEDULE DESCRIBED IN EXHIBIT 5 OF
BLACKMAN TOWNSHIP CONTRACT

197 100 CU/FT X \$.3083/100 CU/FT = \$60.74

TRANSPORTATION CHARGE \$60.74

DEBT SERVICE CHARGE:

AS PER DESCRIBED IN PARAGRAPH 5C(1)(c) OF BLACKMAN TOWNSHIP
CONTRACT

197 100 CU/FT X \$.2384/100 CU/FT = \$46.96

TOTAL SERVICE CHARGE FOR FINLEY'S \$249.52

=====

WASTEWATER TREATMENT SERVICE CHARGES
BLACKIACKMAN UNMETERED ACCOUNTS
JULY 1995 PROJECTED

HILLSDALE AND LANSING AVE ACCOUNTS

END DATE AUG 1995
BEG DATE JUL 1995

TREATMENT CHARGES, TRANSPORTATION CHARGE (INTERCEPTOR SEWER),
AND DEBT SERVICE CHARGE EQUALS \$.9741/100 CU/FT X (9)/100 CU/FT
OR \$8.77 PER FACILITY UNIT

64 FACILITY UNITS X \$8.77 = \$561.28

GANSON AND BROWN ST ACCOUNTS

END DATE AUG 1995
BEG DATE JUL 1995

TREATMENT CHARGES, TRANSPORTATION CHARGE (TRUNK & INTERCEPTOR
SEWER), AND DEBT SERVICE CHARGE EQUALS \$1.2666/100 CU/FT X (9)
100 CU/FT OR \$11.40 PER FACILITY UNIT

96 FACILITY UNITS X \$11.40 = \$1,094.40

TOTAL \$1,655.68
=====

WASTEWATER TREATMENT SERVICE CHARGES
SUMMIT TOWNSHIP DISTRICT I & II
JULY 1995 PROJECTED

TREATMENT CHARGE DISTRICT I	\$16,284.16

TREATMENT CHARGE DISTRICT II	\$35,391.44

TRANSPORTATION CHARGE	\$914.07

PERPETUITY CHARGE	\$4,514.58

TOTAL SERVICE CHARGE	\$57,104.25
	=====

WASTEWATER TREATMENT SERVICE CHARGES
 SUMMIT T TOWNSHIP DISTRICT I
 JULY 1995 PROJECTED

ROBINSON RD FLOW	39661500 GALS		
CATALINA RD FLOW	22913900 GALS	DISTRICT I FLOW	16747600 GALLONS

TREATMENT CHARGES:

		2YR UNIT COST			
JUL 1995 100 CU/FT	22390	\$0.1380		=	\$3,089.80
6 MON AVG BOD MG/L	180	\$0.1435	8.34	=	\$3,607.80
6 MON AVG SS MG/L	262	\$0.1131	8.34	=	\$4,138.88
6 MON AVG TKN MG/L	15.5	\$0.4034	8.34	=	\$873.35
6 MON AVG P MG/L	5.1	\$1.2967	8.34	=	\$923.69

TREATMENT CHARGE \$12,633.52

18TH ST. FLOW 3337400 GALS

TREATMENT CHARGES:

		2YR UNIT COST			
JUL 1995 100 CU/FT	4462	\$0.1380		=	\$615.72
6 MON AVG BOD MG/L	214	\$0.1435	8.34	=	\$854.75
6 MON AVG SS MG/L	419	\$0.1131	8.34	=	\$1,319.02
6 MON AVG TKN MG/L	25.4	\$0.4034	8.34	=	\$285.20
6 MON AVG P MG/L	5.8	\$1.2967	8.34	=	\$209.33
Micor 100 cu/ft	337	1.0879	Includes trans & Treat		\$366.62
			TREATMENT CHARGE		\$3,650.64

DISTRICT I SERVICE CHARGES \$16,284.16

8/30/95

WASTEWATER TREATMENT SERVICE CHARGES
SUMMIT TOWNSHIP DISTRICT II
JULY 1995 PROJECTED

MILWAUKEE FLOW 45823400 GALS
NAPOLEON FLOW 2549930 GALS DISTRICT II FLOW 43273470 GALLONS

TREATMENT CHARGES:

		2YR UNIT COST			
JUL 1995 100 CU/FT	57852	\$0.1380	=		\$7,983.61
6 MON AVG BOD MG/L	193	\$0.1435	8.34	=	\$9,995.33
6 MON AVG SS MG/L	279	\$0.1131	8.34	=	\$11,388.19
6 MON AVG TKN MG/L	23.7	\$0.4034	8.34	=	\$3,450.42
6 MON AVG P MG/L	5.5	\$1.2967	8.34	=	\$2,573.89
South St (gals)	0	1.0879	Trans & Treat /100 cuft	=	\$0.00
July 1, 1995 1910 reading			TREATMENT CHARGE		\$35,391.44
Read Dec 31, 1995					-----

TRANSPORTATION CHARGE:

\$ 0158/100 CU/FT	57852	100 CU/FT	=		\$914.07
				TRANSPORTATION CHARGE	\$914.07

DISTRICT II SERVICE CHARGE \$36,305.51
=====

WASTEWATER TREATMENT SERVICE CHARGE
SPRING ARBOR
JULY 1995 PROJECTED

END DATE AUG 1995
BEG DATE JUL 1995

TOTAL FLOW 22913900 GALLONS

TREATMENT CHARGES:

		2YR UNIT COST			
JUL 1995	100 CU/FT	30634	\$0 1380	=	\$4,227.43
6 MON AVG BOD	MG/L	120	\$0 1435	8.34 =	\$3,290.78
6 MON AVG SS	MG/L	169	\$0 1131	8.34 =	\$3,652.70
6 MON AVG TKN	MG/L	15.6	\$0.4034	8.34 =	\$1,202.61
6 MON AVG P	MG/L	4.3	\$1 2967	8.34 =	\$1,065.55

TREATMENT CHARGE \$13,439.07

TRANSPORTATION CHARGE:

\$.01/100 CU /FT 0 100 CU/FT = \$0.00

PERPETUITY CHARGE:

MONTHLY PERPETUITY CHARGE \$1,495.08

TOTAL MONTHLY SERVICE CHARGE \$14,934.15
=====

WASTEWATER TREATMENT SERVICE CHARGES
 NAPOLEON
 JULY 1995 PROJECTED

END DATE AUG 1995
 BEG DATE JUL 1995

TOTAL FLOW 2549930 GALLONS

TREATMENT CHARGES:

		2YR UNIT COST			
JUL 1995	100 CU/FT	3409	\$0.1380	=	\$470.44
6 MON AVG	BOD MG/L	214	\$0.1435	8.34 =	\$653.07
6 MON AVG	SS MG/L	381	\$0.1131	8.34 =	\$916.39
6 MON AVG	TKN MG/L	30.4	\$0.4034	8.34 =	\$260.80
6 MON AVG	P MG/L	6.6	\$1.2967	8.34 =	\$182.00

TREATMENT CHARG \$2,482.70

TRANSPORTATION CHARGE:

\$.0157/100 CU/FT 3409 100 CU/FT FT = \$53.52

TRANSPORTATION CHARGE \$53.52

PERPETUITY CHARGE:

New MONTHLY PERPETUITY CHARGE \$234.50

TOTAL MONTHLY SERVICE CHARGE \$2,770.72

Township wastewater passing through the City's wastewater collection system shall be assessed a transportation rate that is based upon the appropriate unit cost, which shall be calculated as follows:

(i) Interceptor only The unit cost for Township wastewater passing through a City interceptor only was initially based on an estimated maintenance expense until an accurate history of interceptor maintenance expense could be developed. The initial rate was \$0.01 per 100 cu / ft. The City of Jackson's engineering department had provided the methodology used to determine the interceptor cost.

(ii) Interceptor and lift station The unit cost for Township wastewater passing through a City interceptor and pumped by a City lift station is determined by summing the lift station unit cost and the interceptor unit cost set forth above in paragraph (i). The lift station unit cost is calculated by dividing the annual operation, maintenance, and replacement (OM&R) expense of the City's collection system by the annual billable volume of wastewater flow through that system. The annual lift station OM&R expense equals the total expenses of the Collection Activity of the Sewage Operating Fund, less the expense of the township lift station maintenance performed by the City (Account # 650.61 of Sewage Fund Revenue), and less City sewer maintenance and replacement expenses. (Account 938.01, 938.91 and 999.05 of the collection Activity). The annual billable volume of wastewater is obtained from summing the previous (12) months of total wastewater volume reported on the monthly Utility Billing Report from the time the calculations are made during the annual review.

In equation form:

Interceptor &
Lift Station Unit Cost = Interceptor Unit Cost + Lift Station Unit, Cost

Where Lift Station =
$$\frac{\text{Total OM\&R} - \text{Twp. O\&M} - \text{City Sewer Maint.} - \text{City Sewer Replacement}}{\text{Annual Billable Wastewater Flow}}$$

Audited 1994 - 1995

Interceptor & Lift Station Unit Cost	=	<u>\$0.0155</u>	<u>\$919,673</u>	<u>\$52,708</u>	<u>\$258,944</u>	<u>\$500,000</u>
		100 cu / ft		2551814	100 cu / ft	

= \$0.0578 per 100 cu / ft

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EXHIBIT 5 (Cont)

(iii) Interceptor and trunk sewer The unit cost for Township wastewater passing through a City interceptor, trunk sewers and lift station is determined by dividing the annual operation, maintenance and sewer replacement expenses by the annual billable volume of wastewater passing through the City's wastewater collection system. The City sewer maintenance and replacement expense are obtained from summing accounts 938.01, 938.91, 965.05 of the Collection Activity of the Sewage Operating Fund.

In equation form:

$$\begin{array}{l} \text{Interceptor \& } \\ \text{Trunk Sewer} \\ \text{Unit Cost} \end{array} = \frac{\text{City Sewer maint. + City Sewer Repl.}}{\text{Annual Billable Wastewater Flow}}$$

Example for

$$\begin{array}{l} \text{Interceptor \& } \\ \text{Trunk Sewer} \\ \text{Unit Cost} \end{array} = \frac{\$258,944}{2551814} + \frac{\$500,000}{100 \text{ cu / ft}}$$

$$= \underline{\$0.2974} \text{ per 100 cu / ft}$$

(iv) Interceptor, trunk sewers, and lift stations The unit cost for township wastewater passing through a City interceptor, trunk sewer and lift station is determined by dividing the annual operation, maintenance, and replacement expense of the City's collection system by the annual billable volume of wastewater flow through that system. The annual operation, maintenance, and replacement expenses of the City's collection system equal the total expenses of the Collection Activity within the Sewage Operating Fund, less the expenses of township lift station maintenance performed by the City.

In equation form:

$$\begin{array}{l} \text{Interceptor,} \\ \text{Trunk Sewer,} \\ \text{\& Lift Station} \\ \text{Unit Cost} \end{array} = \frac{\text{Total OM\&R - O\&M}}{\text{Annual Billable Wastewater Flow}}$$

Audited 1994 – 1995

$$\begin{array}{l} \text{Interceptor} \\ \text{Trunk Sewer,} \\ \text{\& Lift Station} \\ \text{Unit Cost} \end{array} = \frac{\$919,673}{2551814} - \frac{\$52,708}{100 \text{ cu / ft}}$$

$$= \underline{\$0.3397} \text{ per 100 cu / ft}$$

EXHIBIT 9

DEBT SERVICE AND CAPITAL IMPROVEMENT CHARGE

Township wastewater which passes through the City's wastewater facilities, and is not bulk metered, shall be assessed a debt service and capital improvement charge, which shall be levied on the individual user for the purpose of recovering the user's charge of capital expenditures made by the City in order to provide adequate wastewater treatment service and capacity. The rate set forth for the debt service and capital improvement charge shall be reviewed and amended annually in accordance with paragraph 5 of this Agreement

The debt service portion of the rate shall be based upon bonds sold to finance additions to wastewater facilities, and the capital improvement portion of the rate shall be based upon other plant additions financed by the Sewage Fund. The rate shall be determined from actual expenditures and billable wastewater flow during the 12 month audit period and calculated by dividing the appropriate principal and interest payments, plus capital improvements, less township perpetuity charges; by the billable wastewater flow through the City's collection system, less bulk metered township wastewater passing through City sewers. The equation is as follows:

$$\text{Debt Service and Capital Improvement Rate} = \frac{\text{P \& I Payments} + \text{Capital Improvements} - \text{Twp Perpetuity}}{\text{Billable Flow in City Sewers} - \text{Bulk Metered Twp Flow}}$$

- Note: (a) P & I Payments consist of payments on Sanitary Sewage Disposal System Revenue Bonds total \$995,000 at 4.84741% issued for 10 years dated 11/1/93 and matures 11/1/03.
- (b) Township perpetuity charge is based on current Township contract allocations.
- (c) Capital improvements shall be determined from the assets acquired during the 12 month audit period, as recorded as additions to the Treatment Plant and Park Improvement Property categories of the Sewage Fund Fixed Asset Schedule, and the non-sewer items under the Collection System property categories of the same Asset Schedule

Audited 1994 - 1995

$$\begin{aligned} \text{Debt Service and Capital Improvement Rate} &= \frac{\$90,250}{2551814 \text{ 100 cu / ft}} + \frac{\$214,028}{-} - \frac{\$141,783}{540180 \text{ 100 cu / ft}} \\ &= \underline{\$0.0808} \text{ per 100 cu / ft} \end{aligned}$$

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EXHIBIT 12

SERVICE CHARGE FOR INDIVIDUALLY METERED FLOW

Township wastewater which is not bulk metered, but metered at the premise and passes through the City's wastewater facilities, shall be assessed a service charge that is determined as follows:

- (i) The transportation portion of the service charge shall be computed on the basis of the transportation rate set forth in paragraph 5C(1)(a)(iv) of this Agreement, as amended.

Audited 1994 -- 1995 \$0.3246 /100 cu / ft

- (ii) The treatment portion of the service charge shall be computed on the basis of the unit cost set forth in paragraph 5C(1)(b) of this agreement, as amended, and applied to wastewater strength characteristics assumed to be as follows:

Biochemical Oxygen Demand, BOD	250 mg/l
Suspended Solids, SS	250 mg/l
Total Kjeldahl Nitrogen, TKN	40 mg/l
Total Phosphorus, P	10 mg/l

Audited 1994 -- 1995

Flow = \$0.1276 /100 cu / ft \$0.1276 /100 cu / ft

BOD = \$0.1281 /lb. BOD X 250 mg/l BOD X 0.00624 $\frac{\text{lb./100 cu/ft}}{\text{mg/l}} =$ \$0.1998 /100 cu / ft

SS = \$0.1016 /lb. SS X 250 mg/l SS X 0.00624 $\frac{\text{lb./100 cu/ft}}{\text{mg/l}} =$ \$0.1585 /100 cu / ft

TKN = \$0.3450 /lb. TKN X 40 mg/l TKN X 0.00624 $\frac{\text{lb./100 cu/ft}}{\text{mg/l}} =$ \$0.0861 /100 cu / ft

P = \$1.0591 /lb. P X 10 mg/l P X 0.00624 $\frac{\text{lb./100 cu/ft}}{\text{mg/l}} =$ \$0.0661 /100 cu / ft

Total Treatment Charge = \$0.6381 /100 cu / ft

- (iii) Surcharges shall be included if wastewater strength exceeds any concentration listed above. Surcharge rates are set forth in paragraph 5C(1)(c) of this Agreement, as amended.

- (iv) The debt service portion of the service charge shall be computed on the basis of the Debt Service and Capital Improvement rate set forth in paragraph 5C(2) of this Agreement, as amended.

Audited 1994 -- 1995 \$0.0808 /100 cu / ft

Total service charge, without surcharges \$1.0435 /100 cu / ft

EXHIBIT 13

SERVICE CHARGE FOR UNMETERED FLOW

Township wastewater which is not bulk metered, nor metered at the premise, and passes through the City's wastewater facilities shall be assessed a service charge that is determined as follows:

The number of facility units assigned to a premise or structure shall be multiplied by the monthly service charge rate per facility unit. The monthly service charge rate per facility unit is determined by multiplying the total service charge, without surcharges, per 100 cu / ft as set forth in Exhibit 12, by nine(which is the number of 100 cubic feet assumed to be discharged per month per facility unit).

Audited 1994 – 1995

$$\begin{aligned} \text{Monthly Service Charge} &= \$1\ 0435 \text{ per 100 cubic feet x } \frac{900 \text{ cubic feet}}{\text{Month/Facility Unit}} \\ \text{Per Facility Unit} & \\ &= \$9.39 \text{ per month per facility unit} \end{aligned}$$

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Township wastewater passing through the City's wastewater collection system shall be assessed a transportation rate that is based upon the appropriate unit cost, which shall be calculated as follows:

(i) Interceptor only The unit cost for Township wastewater passing through a City interceptor only was initially based on an estimated maintenance expense until an accurate history of interceptor maintenance expense could be developed. The initial rate was \$0.01 per 100 cu / ft. The City of Jackson's engineering department had provided the methodology used to determine the interceptor cost

(ii) Interceptor and lift station The unit cost for Township wastewater passing through a City interceptor and pumped by a City lift station is determined by summing the lift station unit cost and the interceptor unit cost set forth above in paragraph (i). The lift station unit cost is calculated by dividing the annual operation, maintenance, and replacement (OM&R) expense of the City's collection system by the annual billable volume of wastewater flow through that system. The annual lift station OM&R expense equals the total expenses of the Collection Activity of the Sewage Operating Fund, less the expense of the township lift station maintenance performed by the City (Account # 650 61 of Sewage Fund Revenue), and less City sewer maintenance and replacement expenses. (Account 938 01, 938.91 and 999.05 of the collection Activity) The annual billable volume of wastewater is obtained from summing the previous (12) months of total wastewater volume reported on the monthly Utility Billing Report from the time the calculations are made during the annual review.

In equation form:

Interceptor &
Lift Station Unit Cost = Interceptor Unit Cost + Lift Station Unit, Cost

Where Lift Station =
$$\frac{\text{Total OM\&R} - \text{Twp. O\&M} - \text{City Sewer Maint.} - \text{City Sewer Replacement}}{\text{Annual Billable Wastewater Flow}}$$

Projected 1995 - 1996

Interceptor & Lift Station =	<u>\$0.0158</u>	<u>\$985,072</u>	<u>\$46,000</u>	<u>\$286,800</u>	<u>\$500,000</u>
Unit Cost	100 cu / ft		2551814	100 cu / ft	
	= <u>\$0.0755</u> per 100 cu / ft				

EXHIBIT 5 (Cont)

(iii) Interceptor and trunk sewer The unit cost for Township wastewater passing through a City inteceptor, trunk sewers and lift station is determined by dividing the annual operation, maintenance and sewer replacement expenses by the annual billable volume of wastewater passing through the City's wastewater collection system. The City sewer maintenance and replacement expense are obtained from summing accounts 938.01, 938.91, 965.05 of the Collection Activity of the Sewage Operating Fund.

In equation form:

$$\begin{array}{l} \text{Interceptor \& Trunk Sewer} \\ \text{Unit Cost} \end{array} = \frac{\text{City Sewer maint. + City Sewer Repl.}}{\text{Annual Billable Wastewater Flow}}$$

Example for

$$\begin{array}{l} \text{Interceptor \& Trunk Sewer} \\ \text{Unit Cost} \end{array} = \frac{\$286,800}{2551814} + \frac{\$500,000}{100 \text{ cu / ft}}$$

$$= \underline{\$0.3083} \text{ per 100 cu / ft}$$

(iv) Interceptor, trunk sewers, and lift stations The unit cost for township wastewater passing through a City interceptor, trunk sewer and lift station is determined by dividing the annual operation, maintenance, and replacement expense of the City's collection system by the annual billable volume of wastewater flow through that system. The annual operation, maintance, and replacement expenses of the City's collection system equal the total expenses of the Collection Activity within the Sewage Operating Fund, less the expenses of township lift station maintenance performed by the City.

In equation form:

$$\begin{array}{l} \text{Interceptor, Trunk Sewer, \& Lift Station} \\ \text{Unit Cost} \end{array} = \frac{\text{Total OM\&R} - \text{O\&M}}{\text{Annual Billable Wastewater Flow}}$$

Projected 1995 – 1996

$$\begin{array}{l} \text{Interceptor Trunk Sewer, \& Lift Station} \\ \text{Unit Cost} \end{array} = \frac{\$985,072}{2551814} - \frac{\$46,000}{100 \text{ cu / ft}}$$

$$= \underline{\$0.3680} \text{ per 100 cu /ft}$$

EXHIBIT 8

EXCERPT FROM WATER AND WASTEWATER RATE RESOLUTION

* * * * *

Projected 1995 – 1996

6. City wastewater service charges shall be based upon the following rate schedules:

d. Extra Strength charges:

For recovering the cost of treating wastewater which is permitted for discharge into the City wastewater treatment facilities, but which has extra strength properties, a surcharge shall be assessed upon the user as follows:

- (i) \$0.1137 per pound of suspended solids when the suspended solids concentration is greater than 250 mg/l.
- (ii) \$0.1602 per pound of BOD when the BOD concentration is greater than 250 mg/l.
- (iii) \$0.3932 per pound of TKN when the TKN concentration is greater than 40 mg/l.
- (iv) \$1.8328 per pound of total phosphorus when the total phosphorus concentration is greater than 10 mg/l.

EXHIBIT 9

DEBT SERVICE AND CAPITAL IMPROVEMENT CHARGE

Township wastewater which passes through the City's wastewater facilities, and is not bulk metered, shall be assessed a debt service and capital improvement charge, which shall be levied on the individual user for the purpose of recovering the user's charge of capital expenditures made by the City in order to provide adequate wastewater treatment service and capacity. The rate set forth for the debt service and capital improvement charge shall be reviewed and amended annually in accordance with paragraph 5 of this Agreement.

The debt service portion of the rate shall be based upon bonds sold to finance additions to wastewater facilities, and the capital improvement portion of the rate shall be based upon other plant additions financed by the Sewage Fund. The rate shall be determined from actual expenditures and billable wastewater flow during the 12 month audit period and calculated by dividing the appropriate principal and interest payments, plus capital improvements, less township perpetuity charges; by the billable wastewater flow through the City's collection system, less bulk metered township wastewater passing through City sewers. The equation is as follows:

$$\text{Debt Service and Capital Improvement Rate} = \frac{\text{P \& I Payments} + \text{Capital Improvements} - \text{Twp Perpetuity}}{\text{Billable Flow in City Sewers} - \text{Bulk Metered Twp Flow}}$$

Note: (a) P & I Payments consist of payments on Sanitary Sewage Disposal System Revenue Bonds total \$995,000 at 4.84741% issued for 10 years dated 11/1/93 and matures 11/1/03

(b) Township perpetuity charge is based on current Township contract allocations

(c) Capital improvements shall be determined from the assets acquired during the 12 month audit period, as recorded as additions to the Treatment Plant and Park Improvement Property categories of the Sewage Fund Fixed Asset Schedule, and the non-sewer items under the Collection System property categories of the same Asset Schedule

Projected 1995 – 1996

$$\begin{aligned} \text{Debt Service and Capital Improvement Rate} &= \frac{\$119,625}{2551814 \text{ 100 cu / ft}} + \frac{\$500,000}{-} - \frac{\$144,935}{560421 \text{ 100 cu / ft}} \\ &= \underline{\$0.2384} \text{ per 100 cu / ft} \end{aligned}$$

EXHIBIT 12

SERVICE CHARGE FOR INDIVIDUALLY METERED FLOW

Township wastewater which is not bulk metered, but metered at the premise and passes through the City's wastewater facilities, shall be assessed a service charge that is determined as follows:

- (i) The transportation portion of the service charge shall be computed on the basis of the transportation rate set forth in paragraph 5C(1)(a)(iv) of this Agreement, as amended.

Projected 1995 – 1996 \$0.3680 /100 cu / ft

- (ii) The treatment portion of the service charge shall be computed on the basis of the unit cost set forth in paragraph 5C(1)(b) of this agreement, as amended, and applied to wastewater strength characteristics assumed to be as follows:

Biochemical Oxygen Demand, BOD	250 mg/l
Suspended Solids, SS	250 mg/l
Total Kjeldahl Nitrogen, TKN	40 mg/l
Total Phosphorus, P	10 mg/l

Projected 1995 – 1996

Flow =	\$0.1380 /100 cu / ft		\$0.1380 /100 cu / ft
BOD =	\$0.1435 /lb. BOD X 250 mg/l	$BOD \times 0.00624 \frac{lb./100 \text{ cu/ft}}{mg/l} =$	\$0.2239 /100 cu / ft
SS =	\$0.1131 /lb. SS X 250 mg/l	$SS \times 0.00624 \frac{lb./100 \text{ cu/ft}}{mg/l} =$	\$0.1764 /100 cu / ft
TKN =	\$0.4034 /lb. TKN X 40 mg/l	$TKN \times 0.00624 \frac{lb./100 \text{ cu/ft}}{mg/l} =$	\$0.1007 /100 cu / ft
P =	\$1.2967 /lb. P X 10 mg/l	$P \times 0.00624 \frac{lb./100 \text{ cu/ft}}{mg/l} =$	\$0.0809 /100 cu / ft

Total Treatment Charge = \$0.7199 /100 cu / ft

- (iii) Surcharges shall be included if wastewater strength exceeds any concentration listed above. Surcharge rates are set forth in paragraph 5C(1)(c) of this Agreement, as amended.
- (iv) The debt service portion of the service charge shall be computed on the basis of the Debt Service and Capital Improvement rate set forth in paragraph 5C(2) of this Agreement, as amended.

Projected 1995 – 1996 \$0.2384 /100 cu / ft

Total service charge, without surcharges \$1.3263 /100 cu / ft

EXHIBIT 13

SERVICE CHARGE FOR UNMETERED FLOW

Township wastewater which is not bulk metered, nor metered at the premise, and passes through the City's wastewater facilities shall be assessed a service charge that is determined as follows:

The number of facility units assigned to a premise or structure shall be multiplied by the monthly service charge rate per facility unit. The monthly service charge rate per facility unit is determined by multiplying the total service charge, without surcharges, per 100 cu / ft as set forth in Exhibit 12, by nine(which is the number of 100 cubic feet assumed to be discharged per month per facility unit).

Projected 1995 – 1996

$$\begin{aligned} \text{Monthly Service Charge} &= \$1\,3263 \text{ per 100 cubic feet x } \frac{900 \text{ cubic feet}}{\text{Month/Facility Unit}} \\ \text{Per Facility Unit} &= \$11.94 \text{ per month per facility unit} \end{aligned}$$

TRANSPORTATION CHARGES (PER 100 CU/FT)

	PROJECTED 1994-95	ACTUAL 1994-95	PROJECTED 1995-96
INTERCEPTOR	\$0.0158	\$0.0155	\$0.0158
INTERCEP & LIFT STATION	\$0.0733	\$0.0578	\$0.0755
INTERCEP & TRUNK	\$0.2933	\$0.2974	\$0.3083
INTERCEP & TRUNK & LIFT ST	\$0.3508	\$0.3397	\$0.3680

BLACKMAN METERED AND UNMETERED ACCOUNTS, RATES BASED ON 100 CU/FT

	1994-95	1994-95	1995-96
FINLEYS			
TRANSPORTATION	\$0.2933	\$0.2974	\$0.3083
DEBT SERVICE	\$0.0852	\$0.0808	\$0.2384
COMMODITY	\$0.6915	\$0.6381	\$0.7199

	1994-95	1994-95	1995-96
LANSING & HILLSDALE:			
TRANSPORTATION	\$0.0158	\$0.0155	\$0.0158
DEBT SERVICE	\$0.0852	\$0.0808	\$0.2384
COMMODITY	\$0.6915	\$0.6381	\$0.7199
	\$0.7925	\$0.7344	\$0.9741
FACILITY UNIT(9)	\$7.13	\$6.61	\$8.77

	1994-95	1994-95	1995-96
GANSON & BROWN:			
TRANSPORTATION	\$0.2933	\$0.2974	\$0.3083
DEBT SERVICE	\$0.0852	\$0.0808	\$0.2384
COMMODITY	\$0.6915	\$0.6381	\$0.7199
	\$1.0700	\$1.0163	\$1.2666
FACILITY UNIT(9)	\$9.63	\$9.15	\$11.40

	1994-95	1994-95	1995-96
MICOR & SOUTH ST.			
TRANSPORTATION	\$0.3508	\$0.3397	\$0.3680
COMMODITY	\$0.6872	\$0.6381	\$0.7199
	\$1.0380	\$0.9778	\$1.0879

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UNIT COSTS FOR TOWNSHIP BILLING

	1993-94 PROJECTED 8 Months	1994-95 PROJECTED 4 Months	1994-95 12 Month Average	1994-95 ACTUAL
FLOW	\$0.1625 /100CUFT	\$0.1163 /100CUFT	\$0.1471	\$0.1276
BOD	\$0.2109 /LB	\$0.1340 /LB	\$0.1853	\$0.1281
SUSP SOLIDS	\$0.1546 /LB	\$0.1076 /LB	\$0.1389	\$0.1016
TKN	\$0.6201 /LB	\$0.4245 /LB	\$0.5549	\$0.3450
TOTAL-P	\$2.5345 /LB	\$1.4795 /LB	\$2.1828	\$1.0591

	1994-95 PROJECTED	1995-96 <u>PROJECTED</u>
FLOW	\$0.1163 /100CUFT	\$0.1380 /100CUFT
BOD	\$0.1340 /LB	\$0.1435 /LB
SUSP SOLIDS	\$0.1076 /LB	\$0.1131 /LB
TKN	\$0.4245 /LB	\$0.4034 /LB
TOTAL-P	\$1.4795 /LB	\$1.2967 /LB

← NEXT "96",
MARCH, 5%
APPROX.
INCREASE