

August 25, 1988

The accompanying Resolution and Articles of Amendment having been delivered to the State Corporation Commission by the Board of Supervisors of the County of Pulaski, the Governing Board of Pulaski County Sewerage Authority and the Commission having found the Resolution and Articles of Amendment to comply with the requirements of law, it is

ORDERED that this Certificate of Amendment be issued and that, this Order together with the Articles, be admitted to record in this office.

STATE CORPORATION COMMISSION

by Elizabeth B. Lacy
Commissioner

ARTICLES OF AMENDMENT OF
PULASKI COUNTY SEWERAGE AUTHORITY

WHEREAS, by Resolution dated the 21st day of December, 1965, the Pulaski County Sewerage Authority was formed pursuant to the provisions of Chapter 28, Title 15.1, of the Code of Virginia (1950) as amended, and,

WHEREAS, the Board of Supervisors of Pulaski County, Virginia, did on the 25th day of July, 1988, conduct a public hearing pursuant to a duly published Notice, a copy of proof of publication being attached hereto, to consider a Resolution to amend the Charter of the Pulaski County Sewerage Authority to extend the life of said authority for a period of fifty years from the date of adoption of the resolution; and

WHEREAS, there was no opposition to the said proposed amendment and no petition has been filed seeking a referendum on the question of the amendment; and

WHEREAS, believing it to be in the best interests of the authority to do so, the Board of Supervisors of Pulaski County, Virginia, did adopt the aforesaid resolution on July 25, 1988, by unanimous vote of the members voting.

NOW, THEREFORE, be it resolved by the Board of Supervisors of Pulaski County, Virginia, on this 25th day of July, 1988, that the Charter of the Pulaski County Sewerage Authority be amended to extend its life to fifty years from July 25, 1988,

And the Secretary of the State Corporation Commission
is hereby requested to amend the Charter of the Pulaski County
Sewerage Authority to this effect and purpose.

MEMBER:	VOTE:
Mason A. Vaughan, Sr.	<u>yea</u>
Jerry D. White	<u>yea</u>
Bruce L. Fariss	<u>yea</u>
Joseph Sheffey	<u>yea</u>
V. E. Vaughn	<u>yea</u>

Mason A. Vaughan Sr.
MASON A. VAUGHAN, Chairman, Board
of Supervisors Of Pulaski County,
Virginia

ATTEST:

Joseph N. Morgan
JOSEPH N. MORGAN, Clerk,
Pulaski County Board of
Supervisors

May 29, 1986

The accompanying Resolution and Articles of Amendment having been delivered to the State Corporation Commission by the Board of Supervisors of Pulaski County, Virginia, on behalf of Pulaski County Sewerage Authority, and the Commission having found the Resolution and Articles to comply with the requirements of law, it is

ORDERED, that this CERTIFICATE OF AMENDMENT be issued and that this Order together with the Articles, be admitted to record in this office.

STATE CORPORATION COMMISSION

Elizabeth B. Lacy
Commissioner

WHEREAS, by Resolution dated the 21st day of December, 1965, the PULASKI COUNTY SEWERAGE AUTHORITY was formed pursuant to the provisions of Chapter 28, Title 15.1, of the 1950 Code of Virginia, as amended; and,

WHEREAS, the jurisdiction of the PULASKI COUNTY SEWERAGE AUTHORITY was amended by Resolution of the Board of Supervisors of Pulaski County on the 28th day of July, 1980, to designate a project to include Estes Subdivision, State Route 621 leading to said subdivision and the area adjacent thereto; and

WHEREAS, the Board of Supervisors of Pulaski County, Virginia, did on the 27th day of January, 1986, conduct a public hearing pursuant to published Notice to consider a Resolution to amend the Charter of the PULASKI COUNTY SEWERAGE AUTHORITY to extend its jurisdiction to the following area as a designated project pursuant to Section 15.1-1247 of the Code of Virginia:

Timberlane Subdivision and the State Roads leading to said subdivision and the areas adjacent thereto.

WHEREAS, there was no opposition to the said proposed amendment and extension and no Petition has been filed seeking a referendum on the extension of the amendment;

NOW, THEREFORE, be it resolved by the BOARD OF SUPERVISORS OF PULASKI COUNTY, VIRGINIA, on this 27th day of January, 1986, that Paragraph C of the original Resolution creating the PULASKI COUNTY SEWERAGE AUTHORITY as amended by Resolution dated July 28, 1980, be further amended to extend the jurisdiction of the PULASKI COUNTY SEWERAGE AUTHORITY as a designated project to that area of Pulaski County, Virginia, described as follows:

Timberlane Subdivision and the State Roads leading
to said subdivision and the areas adjacent thereto.

And the Secretary of the State Corporation Commission is hereby
requested to amend the Charter of the PULASKI COUNTY SEWERAGE
AUTHORITY to this effect and purpose.

MEMBER:

Mason A. Vaughan
Robert P. Whitman
Charlie Linkous
Dr. William Dawson
V. E. "Jack" Vaughn

VOTE:

Not present
<u>yea</u>
<u>yea</u>
<u>yea</u>
<u>yea</u>

Mason A. Vaughan Jr.
MASON A. VAUGHAN, CHAIRMAN
BOARD OF SUPERVISORS OF
PULASKI COUNTY, VIRGINIA

ATTEST:

Sidney A. Clower
SIDNEY A. CLOWER, CLERK

ARTICLES OF AMENDMENT

WHEREAS, by Resolution dated the 21st day of December, 1965, the PULASKI COUNTY SEWERAGE AUTHORITY was formed pursuant to the provisions of Chapter 28, Title 15.1, of the 1950 Code of Virginia, as amended; and,

WHEREAS, the jurisdiction of the PULASKI COUNTY SEWERAGE AUTHORITY was amended by Resolution of the Board of Supervisors of Pulaski County on the 28th day of July, 1980, to designate a project to include Estes Subdivision, State Route 621 leading to said subdivision and the area adjacent thereto; and

WHEREAS, the Board of Supervisors of Pulaski County, Virginia, did on the 27th day of January, 1986, conduct a public hearing pursuant to published Notice to consider a Resolution to amend the Charter of the PULASKI COUNTY SEWERAGE AUTHORITY to extend its jurisdiction to the following area as a designated project pursuant to Section 15.1-1247 of the Code of Virginia:

Timberlane Subdivision and the State Roads leading to said subdivision and the areas adjacent thereto.

WHEREAS, there was no opposition to the said proposed amendment and extension and no Petition has been filed seeking a referendum on the extension of the amendment;

NOW, THEREFORE, be it resolved by the BOARD OF SUPERVISORS OF PULASKI COUNTY, VIRGINIA, on this 27th day of January, 1986, that Paragraph C of the original Resolution creating the PULASKI COUNTY SEWERAGE AUTHORITY as amended by Resolution dated July 28, 1980, be further amended to extend the jurisdiction of the PULASKI COUNTY SEWERAGE AUTHORITY as a designated project to that area of Pulaski County, Virginia, described as follows:

COMMONWEALTH OF VIRGINIA
STATE CORPORATION COMMISSION
RICHMOND

February 3, 1966

The accompanying resolutions and articles having been delivered to the State Corporation Commission by the Board of Supervisors of Pulaski County on behalf of Pulaski County Sewerage Authority, and the Commission having found that the resolutions and articles comply with the requirements of law, it is

ORDERED that this CERTIFICATE OF INCORPORATION be issued, and that this order, together with the resolutions and articles, be admitted to record in the office of the Commission; and that Pulaski County Sewerage Authority have the authority conferred on it by law in accordance with the articles, subject to the conditions and restrictions imposed by law.

STATE CORPORATION COMMISSION

By *Ralph T. Catterall*
Ralph T. Catterall, Chairman

ARTICLES OF INCORPORATION
OF THE
PULASKI COUNTY SEWERAGE AUTHORITY

In compliance with the Virginia Water and Sewer Authority Act (Chapter 23, Title 15.1, Code of Virginia, 1950, as amended), the Board of Supervisors of Pulaski County, Virginia, pursuant to a resolution signifying its intention to create a sewerage authority, which shall be a public body politic and corporate, hereby certifies

(a) This Authority is formed under the Virginia Water and Sewer Authorities Act of 1950. Its name shall be "PULASKI COUNTY SEWERAGE AUTHORITY" and the address of its principal office shall be 33-Third Street, Pulaski, Virginia.

(b) The name of the incorporating political subdivision is PULASKI COUNTY, VIRGINIA, and the names and addresses of the first members of the Board of said Authority are, respectively, as follows, each of whom is a resident of Pulaski County, Virginia, and each of whom shall continue in office for the term expiring on the date set opposite his name and until his successor shall be duly appointed and qualify:

<u>NAME</u>	<u>ADDRESS</u>	<u>EXPIRATION OF TERM OF OFFICE</u>
1. C. E. Flynn	Rt. 2, Radford, Virginia	20 December 1968
2. E. C. Grigsby	Box 734, Dublin, Virginia	20 December 1968
3. D. S. Loar	5 Oxford Ave., Radford, Va.	20 December 1968
4. J. W. Weddle	Rt. 2, Radford, Virginia	20 December 1968
5. W. K. Newcomb	Rt. 2, Radford, Virginia	20 December 1968

Supervisors for a term of three (3) years and until his successor shall be duly appointed and qualify, except that any person appointed to fill a vacancy shall serve only for the unexpired term. Any member of the Authority shall be eligible for reappointment.

Each member of the Authority shall receive the sum of \$15.00 per meeting. Each member shall be reimbursed the amount of his actual expenses necessarily incurred in the performance of his duties.

(c) The purposes for which said Authority is created are: The acquisition, construction, operation and maintenance of a sewer and sewerage disposal system for the collection and treatment of sewerage, and for the purpose of exercising the powers conferred by the Virginia Water and Sewer Authority Act in relation to the foregoing.

The initial project shall be:

To acquire, construct, operate and maintain a public sewerage system for an area in Pulaski County, Virginia, generally known as the "Fairlawn Area" and as shown on a plat entitled, "Preliminary Study Fairlawn Sewerage System, Fairlawn, Pulaski Co., Virginia," prepared by Thompson & Litton, Civil & Mining Engineers, Wise, Virginia, and which said plat is filed with a document entitled, "Preliminary Report Sewerage System, Fairlawn, Pulaski County, Virginia", dated the 19th day of August, 1965, and prepared by Thompson & Litton, reference to which said plat and report is herewith made as if the same were herein set-forth in its entirety, which area shall include the area shown on the aforesaid plat and such adjacent areas as may be conveniently served by the said system.

The preliminary estimate of the capital cost of the proposed sewerage system is given by the Preliminary Report of Thompson & Litton, previously referred to, as \$499,330.00.

No other project shall be undertaken by this Authority until authorized by resolution of the Board of Supervisors of Pulaski County.

Pursuant to the aforesaid Preliminary Report filed herein, it is estimated that the monthly cost per customer shall be somewhere between the sum of \$3.58 and \$6.95, depending therein on the total cost of the system and the financing of the same.

No other authority has been created under the provisions of said act serving the whole or any part of the same area, and none of the powers granted by said act shall be exercised by the Authority in the construction, improvement, maintenance, extension or operation of any project or projects which in whole or in part shall duplicate existing utilities, public or private, serving substantially the same purposes.

IN WITNESS WHEREOF, Pulaski County, Virginia, the political subdivision incorporating said Authority, has caused these Articles of Incorporation to be executed by the Chairman of its Board of Supervisors and the official seal of said Board of Supervisors to be affixed hereto and attested by the Clerk of said Board, this 21st day of December, 1965.

J. Fred A. Rake
Chairman of Board of Supervisors of
Pulaski County, Virginia

(SEAL)

Attest:

Marvin G. Anderson
Clerk of Board of Supervisors of
Pulaski County, Virginia

Section 3. The following persons are hereby appointed as members of the Board of said Authority, each of whom is a resident of Pulaski County, Virginia, and each of whom shall continue in office for the term expiring on the date set opposite his name and until his successor shall be duly appointed and qualify:

<u>NAME</u>	<u>ADDRESS</u>	<u>EXPIRATION OF TERM OF OFFICE</u>
1. C. E. Flynn	Rt. 2, Radford, Virginia	20 December 1968
2. E. C. Grigsby	Box 734, Dublin, Virginia	20 December 1968
3. D. S. Loar	5 Oxford Ave., Radford, Va.	20 December 1968
4. J. W. Weddle	Rt. 2, Radford, Virginia	20 December 1968
5. W. K. Newcomb	Rt. 2, Radford, Virginia	20 December 1968

The successor of each member shall be appointed by the Board of Supervisors for a term of three (3) years and until his successor shall be duly appointed and qualify, except that any person appointed to fill a vacancy shall serve only for the unexpired term. Any member of the Authority shall be eligible for reappointment.

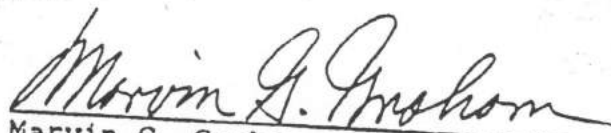
Each member of the Authority shall receive the sum of \$15.00 per meeting. Each member shall be reimbursed the amount of his actual expenses necessarily incurred in the performance of his duties.

Section 4. The Articles of Incorporation of the Pulaski County Sewerage Authority, in substantially the form set forth in Section 2 of this resolution, shall be executed on behalf of the said Pulaski County by the Chairman of its Board of Supervisors and the official seal of said Board of Supervisors shall be affixed thereto and attested by the Clerk of said Board of Supervisors, the said officers are hereby authorized, empowered and directed to do all things necessary and appropriate to create said Authority under the provisions of the Virginia Water and Sewer Authorities Act.

Section 5. A public hearing will be held on this resolution at 10:00 o'clock A. M., January 25, 1966, at the Court House, Pulaski, Virginia, the usual place of meeting of the Board of Supervisors.

Section 6. The Clerk of the Board of Supervisors is hereby authorized and directed to cause a notice of the public hearing, together with a copy of this resolution, to be published once in The Southwest Times, a newspaper of general circulation in Pulaski County, Virginia, said publication to be at least ten days prior to the date fixed for the hearing.

A COPY TESTE:



Marvin G. Graham
Clerk of the Board of Supervisors

At a Regular Meeting of the Board of Supervisors of Pulaski County, Virginia, held in the Court House at Pulaski on January 25, 1966, Vice-Chairman R. J. Shelburne presiding in the absence of the Chairman, a Resolution was unanimously adopted by those present, said Resolution being in the words and figures following, To-Wit:

"A RESOLUTION RELATING TO THE CREATION OF THE
PULASKI COUNTY SEWERAGE AUTHORITY

"WHEREAS, a public hearing, notice of which was duly published, was duly held pursuant to the provisions of the Virginia Water and Sewer Authorities Act (Chapter 28, Title 15.1, Code of Virginia, 1950, as amended), at 10:00 o'clock, A.M., January 25, 1966, at the Court House, Pulaski, Virginia, on the Resolution which was adopted on December 21, 1965, by the Board of Supervisors of Pulaski County, Virginia, signifying its intention to create the Pulaski County Sewerage Authority for the purpose set forth in said Resolution; and

"WHEREAS, on or before the day of the public hearing the Board of Supervisors caused to be filed with the State Corporation Commission, Articles of Incorporation of the Pulaski County Sewerage Authority, together with proof of Publication of the Notice stating when and for what purpose the public hearing; and,

"WHEREAS, at the public hearing no substantial opposition by prospective users of the proposed services of said Authority was heard and no petition calling for referendum has been filed with the Board of Supervisors; and

"WHEREAS, the Board of Supervisors is of the opinion that the Pulaski County Sewerage Authority should be created, and it is not practical to estimate initial rates other than as set forth in the Preliminary Report Sewerage System, Fairlawn, Pulaski County, Virginia, dated the 19th day of October, 1965, by Thompson & Litton, responsible consulting engineers; now, therefore,

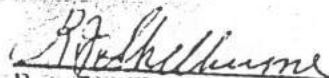
"BE IT RESOLVED by the Board of Supervisors of Pulaski County, Virginia:

Section 1. A certified copy of the proceedings of the public hearing mentioned in the foregoing preambles, signed by the Acting Chairman of the Board of Supervisors, with the official seal of said Board affixed thereto and attested by the Clerk of said Board, shall be filed with the State Corporation Commission.

Section 2. The State Corporation Commission be and hereby is requested to issue a Certificate of Incorporation or Charter lawfully creating the Pulaski County Sewerage Authority.

Section 3. A copy of said Preliminary Report Sewerage System, Fairlawn, Pulaski County, Virginia, dated the 19th day of October, 1965, is made a part hereof.

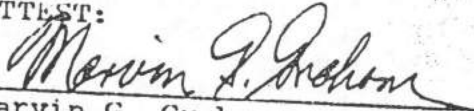
Section 4. A Certified copy of this resolution signed by the Acting Chairman of the Board of Supervisors, with the official seal of said Board affixed thereto and attested by the Clerk of said Board, shall be filed with the State Corporation Commission.



R. J. Shelburne

Acting Chairman, Board of Supervisors

ATTEST:



Marvin G. Graham

Clerk, Board of Supervisors

PROCEEDINGS OF A PUBLIC HEARING, HELD JANUARY 25, 1966, ON A
RESOLUTION OF THE BOARD OF SUPERVISORS OF PULASKI COUNTY,
VIRGINIA, PROPOSING TO CREATE A COUNTY SEWERAGE AUTHORITY

Mr. R. J. Shelburne, Vice-Chairman stated that the time had arrived for the scheduled public hearing on the Board's proposal to create a Pulaski County Sewerage Authority.

MR. A. DOW OWENS, Commonwealth's Attorney:

Mr. Chairman, on the 21st day of December, 1965, a resolution was adopted by the Board of Supervisors creating the Pulaski County Sewerage Authority, pursuant to Chapter 28, Title 15.1, of the 1950 Code of Virginia, as amended. A certified copy of the resolution, along with the Articles of Incorporation, has been filed with the State Corporation Commission in Richmond. I have also filed with the State Corporation Commission a certification from the Southwest Times that a notice of a public hearing was published in the Southwest Times, setting forth that the matter would be heard on this date, the 25th day of January, 1966, commencing at 10:00 a.m. It is my belief that all provisions of the Code to this point have been complied with, and it is now I think proper to hear those persons who are in favor of the creation of the Authority and those who may oppose it. In this respect, I might state that Mr. John Litton of Thompson & Litton Engineers, is present, and I think it probably more proper to ask him to come forth and to see if there are any questions from any members of the audience at this time.

MR. R. J. SHELBURNE, VICE-CHAIRMAN:

Mr. Litton?

MR. A. DOW OWENS, Commonwealth's Attorney:

Would you identify yourself?

MR. JOHN LITTON:

Yes. I am John Litton, an associate in the firm of Thompson & Litton, Consulting Engineers from Wise, Virginia. Sometime ago our engineering firm did a preliminary study regarding sewerage facilities for the Community of Fairlawn. We did this preliminary study for the Board of Supervisors of Pulaski County, and that study has been presented to them. It showed - the result of the study showed that we could put in a sewerage system there which would be workable, and it indicated that it was not only workable, but that it was a feasible system. The first thing, of course, that we think about when we discuss sewerage is cost, and there as all of you know, both the Federal and the State and local Government, are making more and more provisions for the abatement of stream pollution and for the creation of healthy and sanitary conditions for the Communities in which people live. But they are not only enacting this legislation, but they are also providing help to those areas which need help. There are many Federal Agencies which offer help in the aid of money in the form of grants, loans, insured loans, and etc., which might possibly offer a source of help in the construction of this project. We are here today, I believe, to discuss the formation of some sort of an organization to handle this sewerage work and to have the authority to do whatever is necessary to complete the project which we have suggested. I would be glad to answer any questions which you may have.

MR. A. DOW OWENS, Commonwealth's Attorney:

Let me ask this, - If there are any persons who want to ask any questions, or any persons who wish to make a statement, before doing so, would you please identify yourself and we might speak rather slowly in order that we might make certain that the proceedings are properly and accurately transcribed.

MR. R. J. SHELburnE, VICE-CHAIRMAN:

Do we have anyone who wishes to make a statement either for, or against?

MR. BERNARD SHUTT:

I am Bernard Shutt, representing the Local Health Department, I don't know as there is anything that I could add that hasn't been said before, except we all realize the dire need for an efficient system there. We have approximately 400 houses that are being serviced by septic tanks. Of course, these septic tanks have just about fulfilled their intended purpose. They are not going to last much longer. Something is going to have to be done. If there is any questions at all that I might answer or enlighten anyone on what we have there or what we propose to do, I would be happy to do it.

MR. A. DOW OWENS, Commonwealth's Attorney:

I believe, Mr. Shutt, that it is your opinion, as a Health Officer, that it is absolutely essential that some means of sewerage disposal, other than septic tank systems, be utilized for this particular area?

MR. BERNARD SHUTT:

Very definitely so. Yes, sir. A septic tank system can be considered as a temporary means of sewerage disposal. Most of the homes in this area that is supposed to be served by this sewerage disposal system have been in over 20 years now, and that certainly far exceeds the life expectation of one of them

MR. A. DOW OWENS, Commonwealth's Attorney:

Has this created any health hazards?

MR. BERNARD SHUTT:

Potentially. Of course, we have had no epidemics, or we don't have any diseases that we know of that we can put our fingers on, but certainly the potential is there. Where you have all these septic tanks and water lines running through or near the drain fills, there is always that potential. Just one little thing could go wrong there and would throw an epidemic in the entire community.

MR. RONALD SIMPSON:

Bernard, as I understand it, just one water line could contact the seat and contaminate the whole water system. Is that right?

MR. BERNARD SHUTT:

Very easily. As you know, sewerage is highly corrosive and where the sewerage would come in contact with these galvanized water pipes, it would eat a hole in them, even if it is nothing more than just a pin hole. In case of a fire if you cut the water off and the water drains back, you create a negative pressure and you could pull that sewerage right into the line, and the pressure could be put back on it and it would spread to the entire community. That's just how simple something like that could happen. Of course, you realize the potential danger that could come from that.

MR. A. DOW OWENS, Commonwealth's Attorney:

Mr. Litton, do you as a Consulting Engineer, feel that this is a proper and necessary step for this part of the County?

MR. JOHN LITTON:

Yes, sir. I do. As a Consulting Engineer, of course, this is my business, and I from day to day see communities which need this sort of improvement, so it becomes second nature to me.

I heartily endorse your action. I think it is a necessary action and if our communities are to grow and to expand and to be the kind of communities that we want them to be, this sort of basic improvement is just an absolute necessity, both from a health standpoint and from a standpoint of economic growth. You must have these sort of facilities if you want to be a good community in which to live.

MR. A. DOW OWENS, Commonwealth's Attorney:

Mr. Shelburne, you might ask Mr. Newcomb as the Supervisor from this area, to introduce the members of the Authority that have been appointed, and ask if they have any comments or have heard any comments.

MR. R. J. SHELBURNE, VICE-CHAIRMAN:

All right. Mr. Newcomb, would you introduce the members who have been appointed?

MR. WARREN NEWCOMB:

Mr. Chairman, I would like to introduce Charlie Flynn. I will take them from the right to the left. John Weddle, Derwood Loar, and Mr. Ernest C. Grigsby.

I wonder if any of you gentlemen who are members of the Authority, have heard any particular comment either one way or the other concerning the establishment of the Authority. I know it has been published. It is, I believe, common knowledge in the Fairlawn Community, with the publication and with the prior public meetings held at the school.

MR. C. E. FLYNN:

All of the comments that I have heard of have been favorable. I have heard of one, but it didn't come directly to my ears, one person opposing it. This person put in a new septic system last summer. Naturally, he fears having to pay additional money in another couple of years. But in general, the comments have been very favorable in Fairlawn Community, concerning the establishment of this Authority and construction of a central sewerage disposal system.

MR. E. C. GRIGSBY:

I have heard no unfavorable criticism. Not long ago I had lunch in Radford with Clark Cunningham, who most of you know, runs about a Fifteen Million Dollars concern there. In a business way I told him what the tentative plans were and he indicated that it was a very necessary move. And my son, who is a Doctor, and who is home now from Harvard University, and I have consulted with him about the matter since he has been here. He has lived there well, he was a baby there born in the hospital, and lived his early days in the house there where Newcomb lives now, and he was very much in sympathy with the movement, and very complimentary to the officials for getting this movement under way. I had heard of the situation and was very enthusiastic about somebody doing it, but I wasn't very anxious to do the work myself.

MR. HENRY FARRIS:

Actually, Mr. Owens, how much - or whoever might have an answer to this question - how much Federal or State aid might be received in this project? Does someone have an answer to that?

MR. JOHN LITTON:

I might try to answer that. There are many Federal Agencies which administer funds for public improvements of this nature. For instance, the Housing and Home Finance Administration, the H.H.F.A., has money which can be used for the planning of such projects. The C.F.A., that is the Community Facilities Administration, administers funds which provide up to 50% of the construction costs, if you are eligible under the terms of the program which they administer. The Farmer's Home Administration has grant money which is available for a certain percentage of the construction costs. This varies from Community to Community. The Farmer's Home Administration can also loan money and it can insure loans. So, really and truly, there are - in addition to these - there are other agencies under which this Community can or might qualify. So, what we really need then is an organization with the proper authority to do whatever is necessary and right and proper to make application to these agencies, and see just what funds we can get for the construction of the project. But there are funds available.

MR. HENRY FARRIS:

Well, we do have that organization now, is that right?

MR. JOHN LITTON:

Yes, sir. I believe so. Mr. Owens can answer that better than I can.

OWENS, Commonwealth's Attorney:

The ultimate creation of the organization, Mr. Farris, will depend on the action of the Board today. If the Board does not find any substantial opposition, and if a petition for a referendum has not been filed with the Board or indicated as desirable, then the Board of Supervisors can by appropriate resolution that I have prepared forward it to the State Corporation Commission create the necessary vehicle for this.

MR. R. J. SHELBURNE, VICE-CHAIRMAN:

I believe we have some other members over here. Do you all have anything you would like to speak on.

MR. WARREN NEWCOMB:

Mr. Chairman, I have a letter written to me from Saint Albans, Psychiatric Hospital at Radford. That's one of the big institutions in our County. They are very very much interested in it. I would like to read you this letter.

SAINT ALBANS

Psychiatric Hospital

1916-1966

Radford, Virginia

January 24, 1966

Office of the
Administration

Mr. W. K. Newcomb
R.F.D.#2
Radford, Virginia

Dear Mr. Newcomb:

In reference to our conversation regarding sewage treatment in this area, I wish to express to you our feeling about the matter.

It is the feeling of all at Saint Albans that some method of sanitary disposal of sewage for this area of Pulaski County is vital. We are quite willing to back any effort by the Board of Supervisors to obtain a greatly needed sewage disposal system for this section.

If I can be of any further service regarding this matter, please feel free to call on me at any time.

Sincerely yours,

s/ R. Lindsay Shuff

R. Lindsay Shuff
Assistant Administrator

RLS:ar

MR. A. DOW OWENS, Commonwealth's Attorney:

Mr. Newcomb, will you file that letter with the hearing?

MR. WARREN NEWCOMB:

Yes, sir.

MR. R. J. SHELburne, VICE-CHAIRMAN:

Is there anybody who opposes it in the group here that we have? Or anyone who wants to call for a referendum on the matter? Well, it seems we have no one here.

MR. A. DOW OWENS, Commonwealth's Attorney:

Mr. Shelburne, I have prepared and will file with the Board of Supervisors a resolution entitled, "A Resolution Pertaining to the Creation of the Kulaski County Sewerage Authority." If it is the desire of the Board to enact this Authority and request the Corporation Commission to issue a Charter, then, of course, you may pass this resolution. Whatever your desires are. I don't think it would be necessary to read the Resolution into the record inasmuch as a certified copy will be filed with the Corporation Commission.

SHELburne, VICE-CHAIRMAN:

All right. What is your gentlemen's pleasure on it?

MR. HENRY FARRIS:

I think we should go ahead and adopt it, Mr. Shelburne. I think it is something that is badly needed.

MR. WARREN NEWCOMB:

Mr. Chairman, I second the motion.

MR. R. J. SHELburne, VICE-CHAIRMAN:

Mr. Farris, did you make that as a motion?

MR. HENRY FARRIS:

Yes, I did.

MR. R. J. SHELburne, VICE-CHAIRMAN:

We have a motion and second on adopting this. All that is in favor of this, let it be known by saying "I".

MR. R. J. SHELburne, VICE-CHAIRMAN:

It is unanimously approved. Now, is there anything else?

MR. A. DOW OWENS, Commonwealth's Attorney:

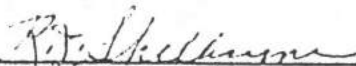
No, Mr. Shelburne, other than to again make certain there is no opposition to the creation of the Authority, and it does not appear there is, so I think it would be proper to adjourn this particular hearing.

MR. R. J. SHELburne, VICE-CHAIRMAN:

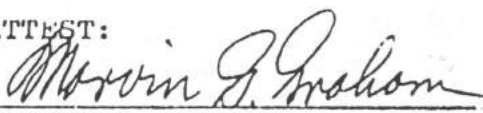
All right. If there is no opposition on it, then we will adjourn this hearing on this opposition we have here. We thank each one of you for your part in it and coming here this morning and taking your time.

(Adjourned)

I, R. J. SHELBURNE, Vice-Chairman of the Board of Supervisors of Pulaski County, Virginia, do hereby certify that the aforesaid transcript is a true and accurate transcript of the evidence presented at a hearing on the 25th day of January, 1966, to consider the creation of the Pulaski County Sewerage Authority, said hearing being held after notice of the same by publication as provided.


R. J. SHELBURNE,
Vice-Chairman of the Board of
Supervisors of Pulaski County, Virginia

ATTEST:


MARVIN G. GRAHAM,
Clerk of the Board of Supervisors
of Pulaski County, Virginia

August 25, 1980

The accompanying Articles of Amendment and resolutions having been delivered to the State Corporation Commission by the Board of Supervisors of Pulaski County on behalf of Pulaski County Sewerage Authority, it is

ORDERED that this CERTIFICATE OF AMENDMENT be issued and that this Order, together with the resolutions and articles, be admitted to record in this office.

STATE CORPORATION COMMISSION

by Thomas P. Harwood Jr.
Commissioner

WHEREAS, by Resolution dated the 21st day of December, 1965, the PULASKI COUNTY SEWERAGE AUTHORITY was formed pursuant to the provisions of Chapter 28, Title 15.1, of the 1950 Code of Virginia, as amended; and,

WHEREAS, the jurisdiction of the said the PULASKI COUNTY SEWERAGE AUTHORITY was limited to the area described in the original Resolution in Paragraph C; and,

WHEREAS, the BOARD OF SUPERVISORS OF PULASKI COUNTY, VIRGINIA, did on the 28th day of July, 1980, conduct a public hearing pursuant to published notice to consider a Resolution to amend the Charter of the PULASKI COUNTY SEWERAGE AUTHORITY to extend its jurisdiction to that area shown on a map entitled, "Location Map, Fairlawn Sewer Pump Station Site Acquisition, Cloyd Magisterial District, Pulaski County, Virginia," dated June 10, 1980, prepared by Dewberry, Nealon & Davis, Engineers, Architects, Planners, Surveyors, 626 South Main Street, Marion, Virginia 25354, and which area includes ESTES SUBDIVISION, State Route 621 leading to said subdivision, and the areas adjacent thereto; and,

WHEREAS, there was no opposition to the said proposed amendment and extension and no petition has been filed seeking a referendum on the extension and amendment.

NOW, THEREFORE, be it resolved by the BOARD OF SUPERVISORS OF PULASKI COUNTY, VIRGINIA, on this 28th day of July, 1980, that the original Paragraph C of the original Resolution of the PULASKI COUNTY SEWERAGE AUTHORITY be amended to extend the jurisdiction of the PULASKI COUNTY SEWERAGE AUTHORITY to that area of Pulaski County, Virginia, described as follows:

"Location Map, Fairlawn Sewer Pump Station Site Acquisition, Cloyd Magisterial District, Pulaski County, Virginia," dated June 10, 1980, prepared by Dewberry, Nealon & Davis, Engineers, Architects, Planners, Surveyors, 626 South Main Street, Marion, Virginia 24354, and which area includes ESTES SUBDIVISION, State Route 621 leading to said subdivision, and the areas adjacent thereto.

And the Secretary of the State Corporation Commission is hereby requested to amend the Charter of the PULASKI COUNTY SEWERAGE AUTHORITY to this effect and purpose.

Adopted and Resolved by the unanimous vote of the BOARD OF SUPERVISORS OF PULASKI COUNTY, VIRGINIA, on this the 28th day of July, 1980.

BOARD OF SUPERVISORS OF PULASKI
COUNTY, VIRGINIA

By Walter L. Lawrence
Chairman

ATTEST:

Rich A. Crown
Secretary - Clerk

A RESOLUTION SIGNIFYING THE INTENTION OF THE BOARD OF SUPERVISORS OF PULASKI COUNTY, VIRGINIA, TO CREATE AN AUTHORITY UNDER THE VIRGINIA WATER AND SEWER AUTHORITIES ACT (CHAPTER 28, TITLE 15.1, CODE OF VIRGINIA 1950, AS AMENDED) FOR THE PURPOSE OF ACQUIRING, CONSTRUCTING, OPERATING AND MAINTAINING A SEWER SYSTEM AND SEWERAGE DISPOSAL SYSTEM, AND FOR THE PURPOSE OF EXERCISING THE POWERS CONFERRED BY SAID ACT IN RELATION TO THE FOREGOING.

BE IT RESOLVED by the Board of Supervisors of Pulaski County, Virginia.

Section 1. It is the intention of the Board of Supervisors of Pulaski County, Virginia, to create an Authority under the Virginia Water and Sewer Authorities Act (Chapter 28, Title 15.1, Code of Virginia, 1950, as amended) for the purpose of providing any or all of the utilities and services authorized by said act, and for the purpose of exercising the powers conferred by said act in relation to the foregoing.

Section 2. The proposed Articles of Incorporation of such Authority are as follows:

August 25, 1980

The accompanying Articles of Amendment and resolutions having been delivered to the State Corporation Commission by the Board of Supervisors of Pulaski County on behalf of Pulaski County Sewerage Authority, it is

ORDERED that this CERTIFICATE OF AMENDMENT be issued and that this Order, together with the resolutions and articles, be admitted to record in this office.

STATE CORPORATION COMMISSION

by _____
Commissioner

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PRELIMINARY REPORT
SEWERAGE SYSTEM
FAIRLAWN, PULASKI COUNTY, VIRGINIA

Thompson & Litton
CONSULTING ENGINEERS

WILLIAM A. THOMPSON, JR.
JOHN W. LITTON
FRANKLIN D. ROBERTSON
LUTHER ADRIEN, JR.

AUGUST 19, 1965

CHARLES E. METCALF

WISE, VIRGINIA
GRUNDY, VIRGINIA

REPLY TO: WISE

BOARD OF SUPERVISORS
PULASKI COUNTY, VIRGINIA
PULASKI, VIRGINIA

GENTLEMEN:

RE: COMMISSION NO. 1063
FAIRLAWN SEWERAGE

IN ACCORDANCE WITH YOUR AUTHORIZATION, WE HAVE MADE A STUDY OF THE SEWERAGE NEEDS FOR THE COMMUNITY OF FAIRLAWN, NORTH OF RADFORD AND ON THE NORTH SIDE OF NEW RIVER.

WE HAVE COMPLETED OUR STUDY AND PRESENT HERewith OUR FINDINGS AND RECOMMENDATIONS INCLUDING THE ESTIMATED COST OF THE PROPOSED IMPROVEMENT.

WE TRUST THAT THIS REPORT WILL PROVIDE YOU WITH INFORMATION WHICH YOU NEED AT THIS TIME. PLEASE DO NOT HESITATE TO CALL ON US FOR FURTHER DISCUSSION.

YOURS VERY TRULY,

THOMPSON & LITTON

John W. Litton
JOHN W. LITTON

JWL;WSW

TABLE OF CONTENTS

	PAGE
PURPOSE AND SCOPE	1
SEWAGE AND SEWAGE TREATMENT	2
PROPOSED FACILITIES	4
PROPOSED SEWER LINES (EXHIBIT NO. 2)	6
PROPOSED STABILIZATION POND (EXHIBIT NO. 3)	9
FINANCIAL DISCUSSION	10
COST ESTIMATE (EXHIBIT NO. 4)	12
AVERAGE COSTS (EXHIBIT NO. 5)	13
AVERAGE COSTS (EXHIBIT NO. 6)	14
AVERAGE COSTS (EXHIBIT NO. 7)	15
AVERAGE COSTS (EXHIBIT NO. 8)	16

EXHIBIT NO. 1 - (MAP) - IN POCKET IN REPORT JACKET

PURPOSE AND SCOPE

The purpose of this report is to present the results of an investigation and study of the problems involved in providing sewage disposal facilities for the Community of Fairlawn, Virginia.

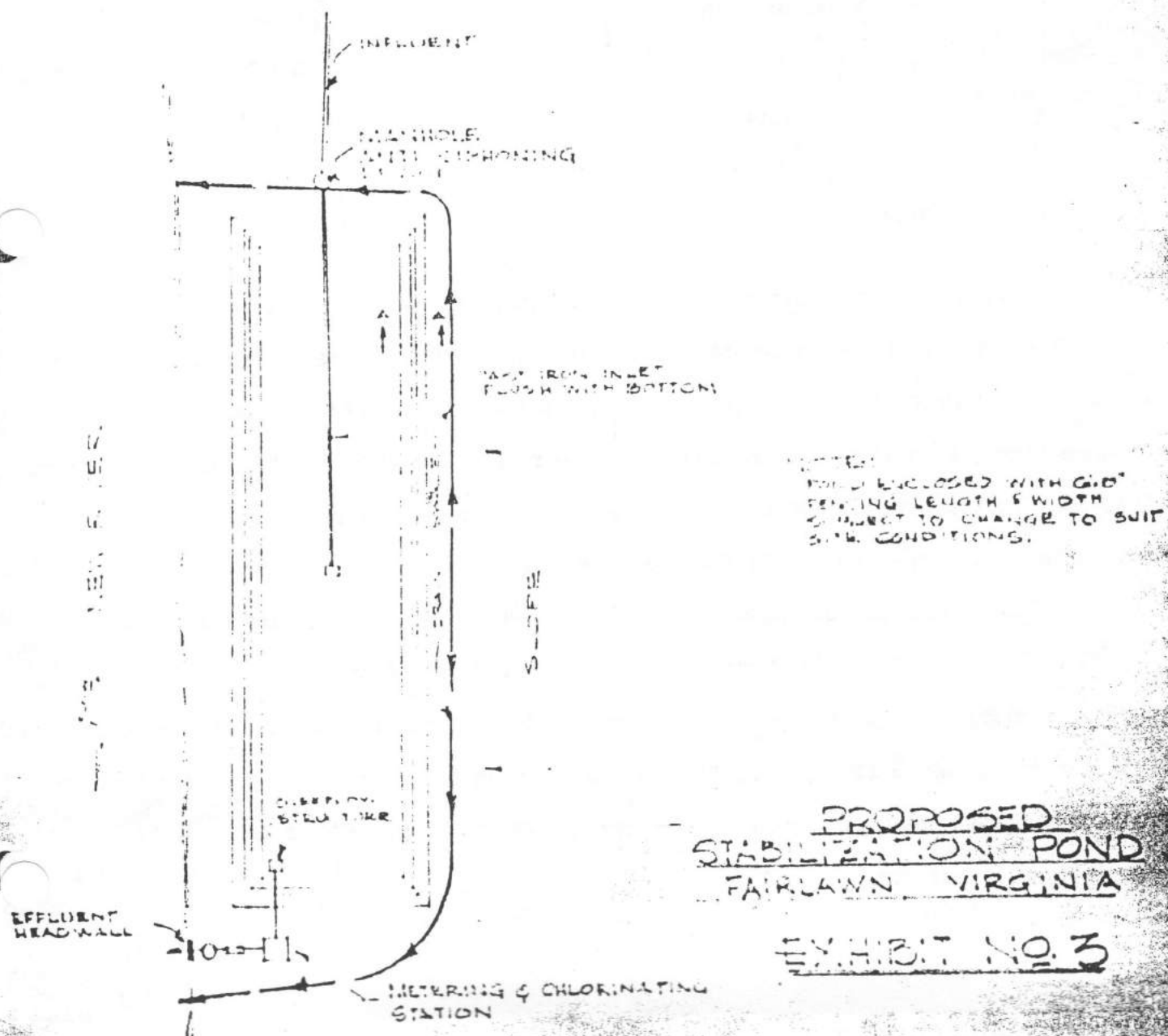
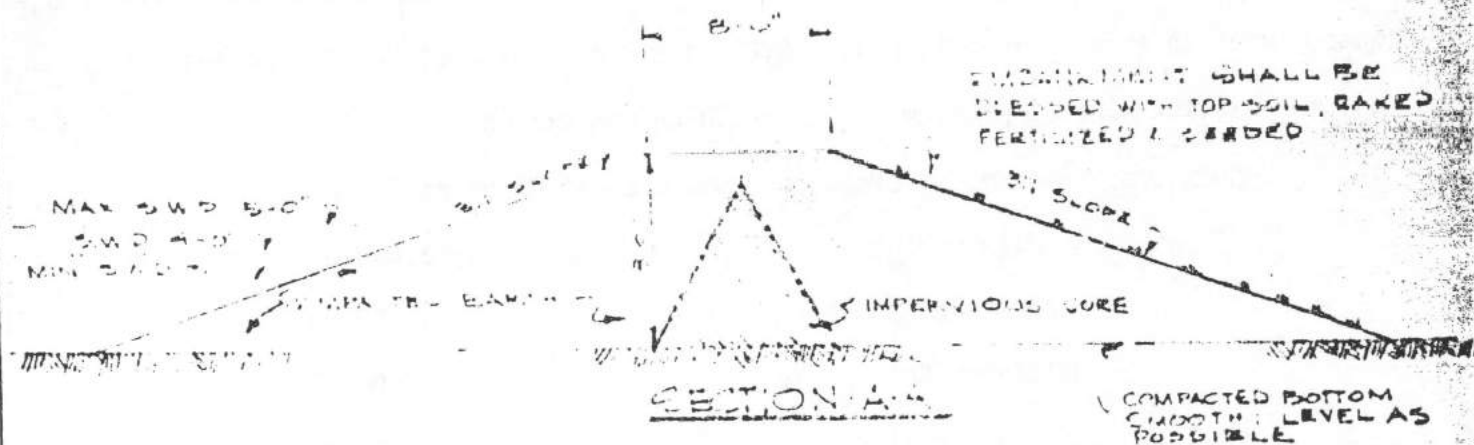
In scope, the study has included a very careful field investigation, the preparation of a schematic layout showing a gravity outfall system, complete with treatment facilities, a general cost estimate for the project, and our recommendations.

SEWAGE AND SEWAGE TREATMENT

Raw sewage discharged into a stream will eventually be decomposed by the process of natural purification. Although the organic matter and municipal wastes will ultimately become inert and stabilized, that portion of the receiving stream for some distance downstream will be unsightly in appearance, will be the source of potential public health hazards and will result in decreased property values along the stream's course. When raw sewage is discharged into a receiving stream, the oxygen content of the natural waters may be depleted so that aquatic life may be seriously affected.

Sewage treatment has as its object the partial or total elimination of those characteristics of sewage which make it objectionable. In conventional type sewage treatment facilities, the sewage solids may be removed by grinding, screening, grit collection, and sedimentation or settling of the larger solids. This method is called primary treatment. If primary treatment is not sufficient to remove the objectionable characteristics, secondary treatment is required. This involves the addition of oxygen to the liquid wastes by one of several successful methods. The mechanical or material addition of oxygen hastens and maintains optimum aerobic decomposition and thereby reduces the pollution load of the receiving stream, requiring less distance and time below the treatment plant outfall before the stream returns to its natural state by the process of self purification. In brief, sewage treatment is then predicated on the removal of solids from the liquid wastes and the addition, by some means, of oxygen to the liquid wastes, if secondary treatment is required.

Since the middle 1940's, a number of ponds have been constructed in Virginia to provide satisfactory municipal sewage and industrial waste treatment.



PROPOSED
STABILIZATION POND
FAIRLAWN, VIRGINIA

EXHIBIT NO. 3

FINANCIAL DISCUSSION

The estimated total cost of construction for the sewerage system facilities contemplated in this project is \$499,330.00 as shown in Exhibit No. 4. We believe that this is the minimum program which should be undertaken.

Annual operation and maintenance costs are estimated as follows:

Superintendent	\$ 3,600.00
Miscellaneous Labor	600.00
Billing & Collecting	600.00
Office Supplies	100.00
Transportation	1,200.00
Supplies	400.00
Minor Repairs	500.00
Replacement and Extensions	<u>3,000.00</u>
TOTAL	\$ 10,000.00

The construction estimate includes \$50,000 for making connections to existing residences and business establishments. Normally, each owner is charged a connection fee. If a connection fee of \$165 is charged for each customer and assuming 500 initial connections, a total of \$82,500 could be acquired. \$75,000.00 of this could be applied to construction and \$7,500.00 could be set aside for operating capital. The bonded indebtedness requirement would then be reduced to \$425,000.00

Based on a 25-year bond issue, \$425,000.00 at 4% interest, the annual debt service requirements would average approximately \$27,000.00 per year. When we add the operating costs to the debt cost, the annual requirements for this system would amount to approximately \$37,000.00. This would mean that when the system first started operation, 500 customers would have to pay \$74.00 annually. This amounts to \$6.17 monthly per customer.

These ponds, variously called sewage lagoons, stabilization ponds, oxidation ponds or lagoons, or ponds, accomplished both primary settling of solids and secondary addition of oxygen. They are, in effect, large detention ponds with square, rectilinear, or trapezoidal surface area of uniform perimeter and shallow, but flexible operating liquid depth. In these ponds, the complex and unstable chemical constituents of the sewage are stabilized by biological processes. Sewage lagoons are now an accepted and demonstrated method of satisfactory waste disposal.

Liquid sewage is admitted by cast iron pipe near the center of the lagoon, and after a minimum detention time, the effluent is withdrawn, chlorinated, and discharged to the receiving stream. One acre of surface area for each four hundred persons served is required. Physical features such as sunlight, rain, wind, and other natural conditions, play an important part in the successful operation of sewage lagoons. No great odor problems have been encountered with sewage lagoons.

The ponds are comparatively cheap to construct, operate, and maintain. They require very little attention and have afforded many communities a cheap and effective means of sewage treatment.

PROPOSED SEWER LINES

LINE	SIZE	LENGTH	NO. RESIDENCES	OTHER
A	12" 10"	4,000 4,600	11	3 - SERVICE STATIONS 36 - TRAILERS
B	10"	5,170	51	1 - SCHOOL
C	8"	800	1	1 - SERVICE STATION
D	8"	1,800	5	2 - BANK BUILDINGS
E	8"	700	5	
F	8"	350	6	
G	8"	1,400	18	
H	8"	400	4	
I	8"	1,000	4	
J	8"	200	3	
K	8"	250	3	
L	8"	200	2	
M	8"	850	9	
N	8"	400	5	
O	8"	200	4	
P	8"	1,225	14	
Q	8"	700	13	
R	8"	400	5	
S	8"	2,200	18	
T	8"	650	6	
U	8"	270	3	
V	8"	300	3	
W	8"	1,450	16	

EXHIBIT NO. 2
REFER TO EXHIBIT NO. 1 (MAP) FOR LOCATION OF LETTERED LINES

It is possible that certain parts or perhaps all of this project could be eligible for Federal assistance under recently enacted programs. Should the county be able to obtain Federal assistance, the bonded indebtedness would, of course, be reduced. This would result in a rather marked reduction in the monthly cost per customer. Exhibit No. 5, 6, 7, and 8 are tables which indicate some average costs for different amounts of bonded indebtedness.

COST ESTIMATE

12" SEWER LINES	4,000 L. F.	@	10.00	\$	40,000.00
10" SEWER LINES	12,670 L. F.	@	5.00		63,350.00
8" SEWER LINES	37,495 L. F.	@	4.00		149,980.00
MANHOLES	140 EACH	@	300.00		42,000.00
SEWER CONNECTIONS	500 EACH	@	100.00		50,000.00
LAGOON, FENCING					4,000.00
LAGOON, GRADING					50,000.00
LAGOON, PIPING & EQUIPMENT					15,000.00
LAGOON, SEEDING					3,000.00
LAGOON, STRUCTURES					5,000.00
LAGOON, ROADS & DRIVES					<u>3,000.00</u>

SUBTOTAL 425,330.00

LAND 10,000.00

ENGINEERING AND CONTINGENCIES - 15% 64,000.00

\$ 499,330.00

EXHIBIT NO. 4

AVERAGE COSTS

ITEM	\$200,000.00	30 YEARS	500 CUSTOMERS
	4%	4 1/2%	5%
Debt Cost	11,472.00	12,168.00	12,888.00
Operating Cost	10,000.00	10,000.00	10,000.00
Total Annual Cost	21,472.00	22,168.00	22,888.00
Annual Cost Per Customer	42.94	44.34	45.78
Monthly Cost Per Customer	3.58	3.70	3.82

ITEM	\$200,000.00	25 YEARS	500 CUSTOMERS
	4%	4 1/2%	5%
Debt Cost	12,672.00	13,344.00	14,040.00
Operating Cost	10,000.00	10,000.00	10,000.00
Total Annual Cost	22,672.00	23,344.00	24,040.00
Annual Cost Per Customer	45.34	46.69	48.08
Monthly Cost Per Customer	3.78	3.89	4.01

ITEM	\$200,000.00	20 YEARS	500 CUSTOMERS
	4%	4 1/2%	5%
Debt Cost	14,544.00	15,192.00	15,840.00
Operating Cost	10,000.00	10,000.00	10,000.00
Total Annual Cost	24,544.00	25,192.00	25,840.00
Annual Cost Per Customer	49.09	50.38	51.68
Monthly Cost Per Customer	4.09	4.20	4.31

AVERAGE COSTS

ITEM	\$250,000.00	30 YEARS	500 CUSTOMERS
	4%	4 1/2%	5%
Debt Cost	14,340.00	15,210.00	16,110.00
Operating Cost	10,000.00	10,000.00	10,000.00
Total Annual Cost	24,340.00	25,210.00	26,110.00
Annual Cost Per Customer	48.68	50.42	52.22
Monthly Cost Per Customer	4.06	4.20	4.35

ITEM	\$250,000.00	25 YEARS	500 CUSTOMERS
	4%	4 1/2%	5%
Debt Cost	15,840.00	16,680.00	17,550.00
Operating Cost	10,000.00	10,000.00	10,000.00
Total Annual Cost	25,840.00	26,680.00	27,550.00
Annual Cost Per Customer	51.68	53.36	55.10
Monthly Cost Per Customer	4.31	4.45	4.59

ITEM	\$250,000.00	20 YEARS	500 CUSTOMERS
	4%	4 1/2%	5%
Debt Cost	18,180.00	18,990.00	19,800.00
Operating Cost	10,000.00	10,000.00	10,000.00
Total Annual Cost	28,180.00	28,990.00	29,800.00
Annual Cost Per Customer	56.36	57.98	59.60
Monthly Cost Per Customer	4.70	4.83	4.97

AVERAGE COST

ITEM	\$300,000.00	30 YEARS	500 CUSTOMERS
	4%	4 1/2%	5%
Debt Cost	17,208.00	18,252.00	19,332.00
Operating Cost	10,000.00	10,000.00	10,000.00
Total Annual Cost	27,208.00	28,252.00	29,332.00
Annual Cost Per Customer	54.42	56.50	58.66
Monthly Cost Per Customer	4.54	4.71	4.89

ITEM	\$300,000.00	25 YEARS	500 CUSTOMERS
	4%	4 1/2%	5%
Debt Cost	19,008.00	20,016.00	21,060.00
Operating Cost	10,000.00	10,000.00	10,000.00
Total Annual Cost	29,008.00	30,016.00	31,060.00
Annual Cost Per Customer	58.01	60.03	62.12
Monthly Cost Per Customer	4.83	5.00	5.18

ITEM	\$300,000.00	20 YEARS	500 CUSTOMERS
	4%	4 1/2%	5%
Debt Cost	21,816.00	22,788.00	23,760.00
Operating Cost	10,000.00	10,000.00	10,000.00
Total Annual Cost	31,816.00	32,788.00	33,760.00
Annual Cost Per Customer	63.63	65.58	67.52
Monthly Cost Per Customer	5.30	5.47	5.63

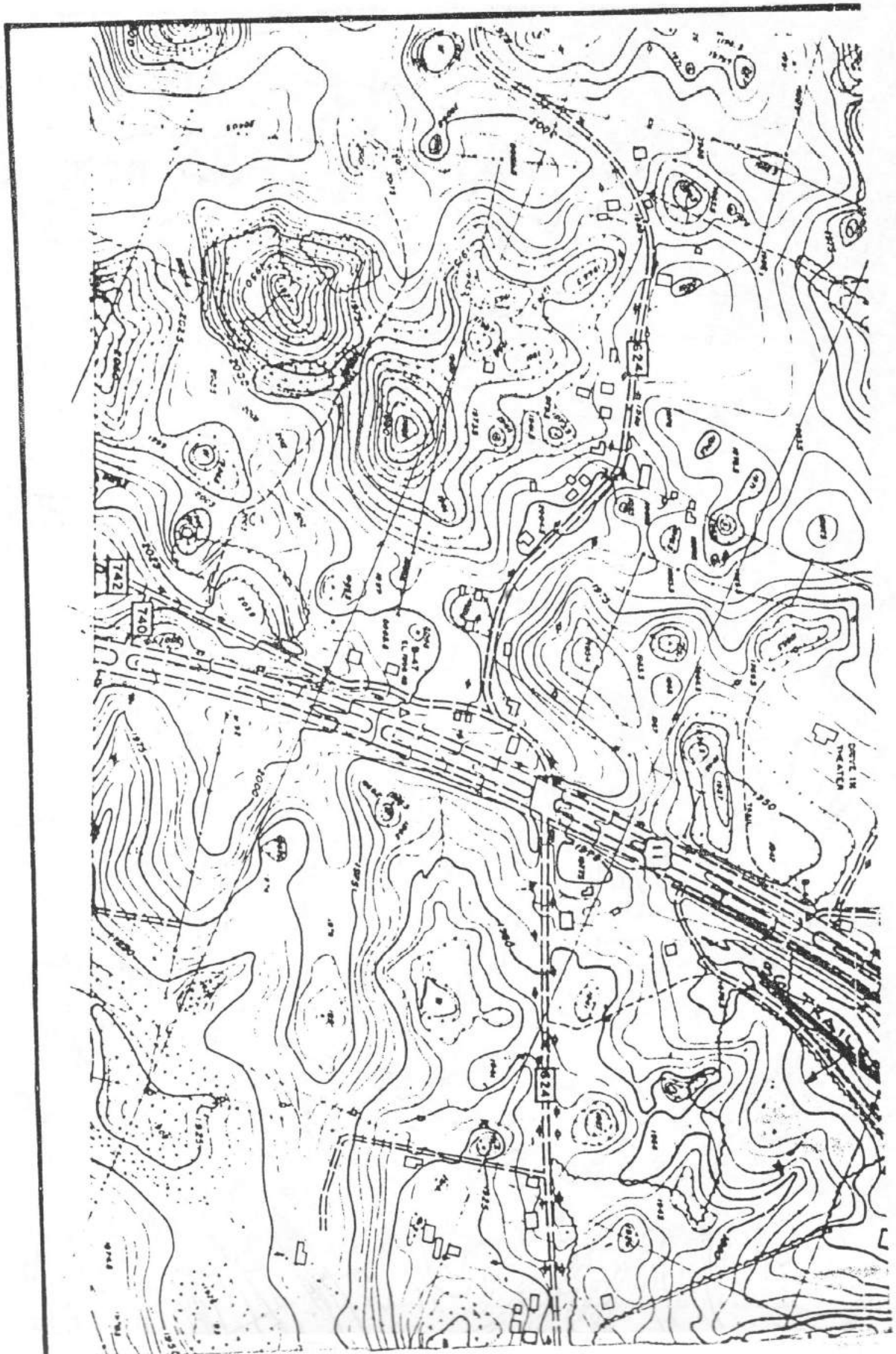
AVERAGE COST

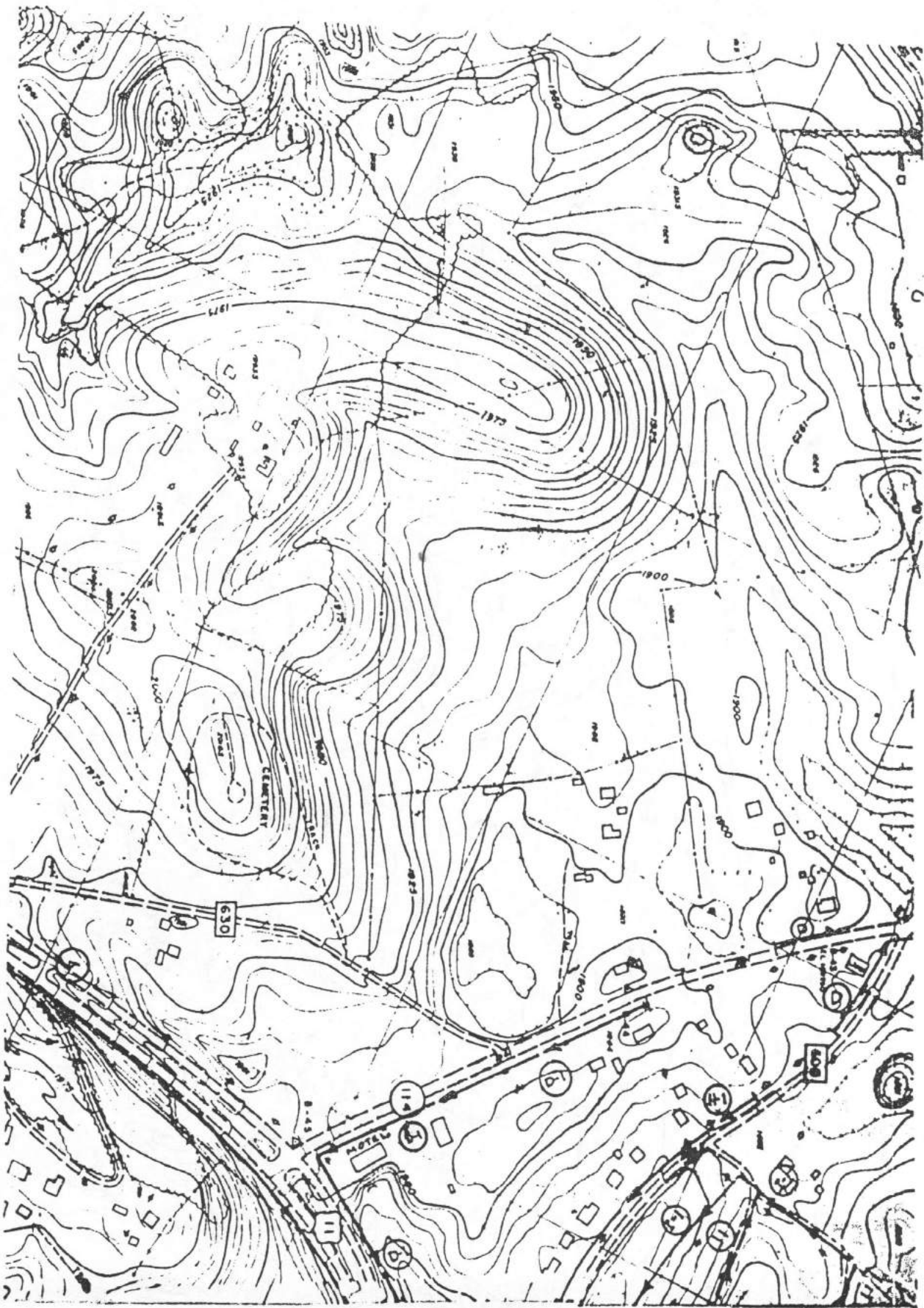
ITEM	\$400,000.00	30 YEARS	500 CUSTOMERS
	4%	4 1/2%	5%
Debt Cost	22,944.00	24,336.00	25,776.00
Operating Cost	10,000.00	10,000.00	10,000.00
Total Annual Cost	32,944.00	34,336.00	35,766.00
Annual Cost Per Customer	65.89	68.67	71.55
Monthly Cost Per Customer	5.49	5.72	5.96

ITEM	\$400,000.00	25 YEARS	500 CUSTOMERS
	4%	4 1/2%	5%
Debt Cost	25,344.00	26,688.00	28,080.00
Operating Cost	10,000.00	10,000.00	10,000.00
Total Annual Cost	35,344.00	36,688.00	38,080.00
Annual Cost Per Customer	70.69	73.38	76.16
Monthly Cost Per Customer	5.89	6.12	6.35

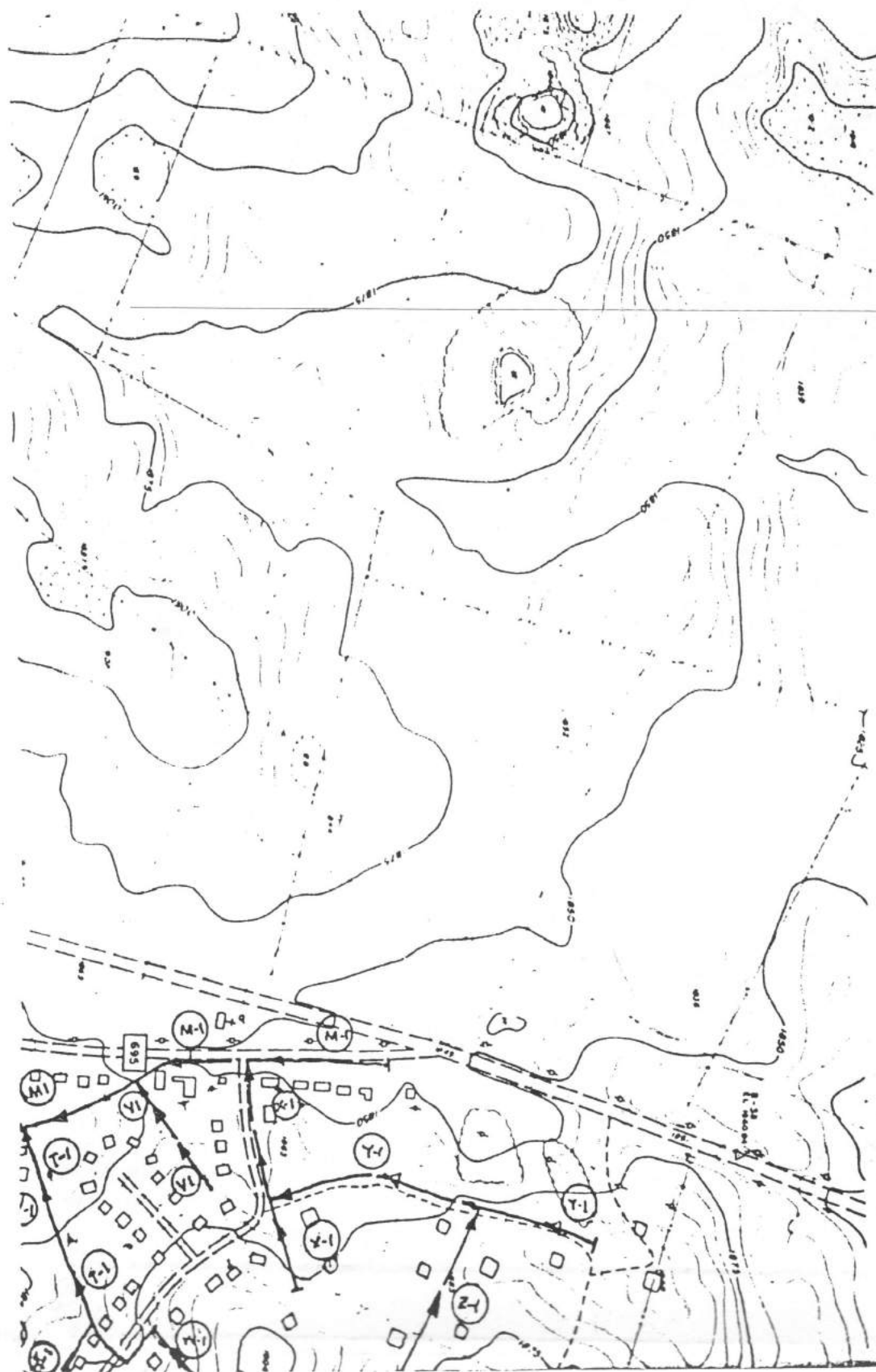
ITEM	\$400,000.00	20 YEARS	500 CUSTOMERS
	4%	4 1/2%	5%
Debt Cost	29,088.00	30,384.00	31,680.00
Operating Cost	10,000.00	10,000.00	10,000.00
Total Annual Cost	39,088.00	40,384.00	41,680.00
Annual Cost Per Customer	78.18	80.76	83.36
Monthly Cost Per Customer	6.52	6.73	6.95

① FIRST 4 PANELS ARE NUMBERED FROM LEFT TO RIGHT ACROSS TOP





④

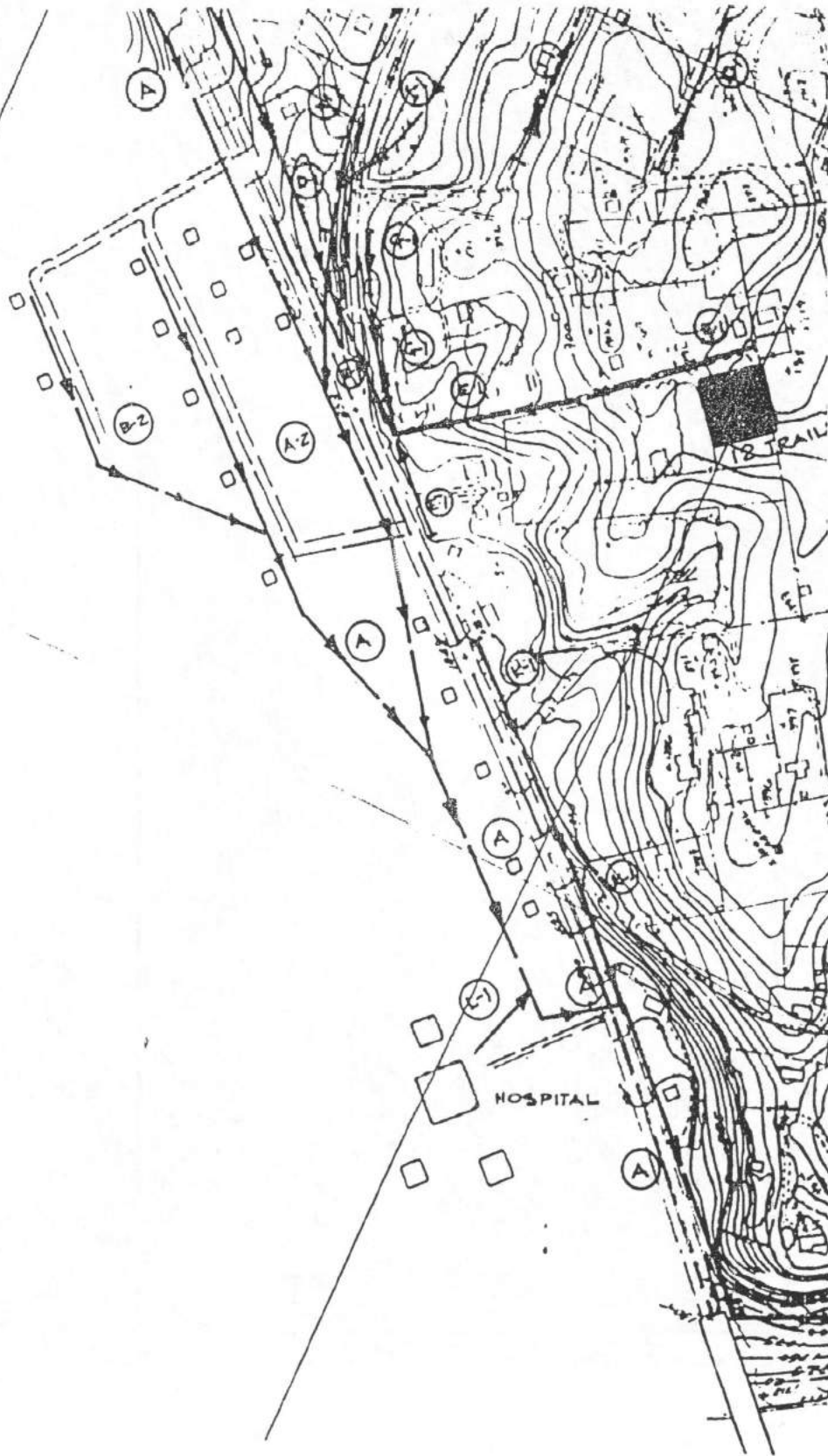


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PANELS 5 THROUGH 8 ARE NUMBERED FROM LEFT TO RIGHT ACROSS BOTTOM



6

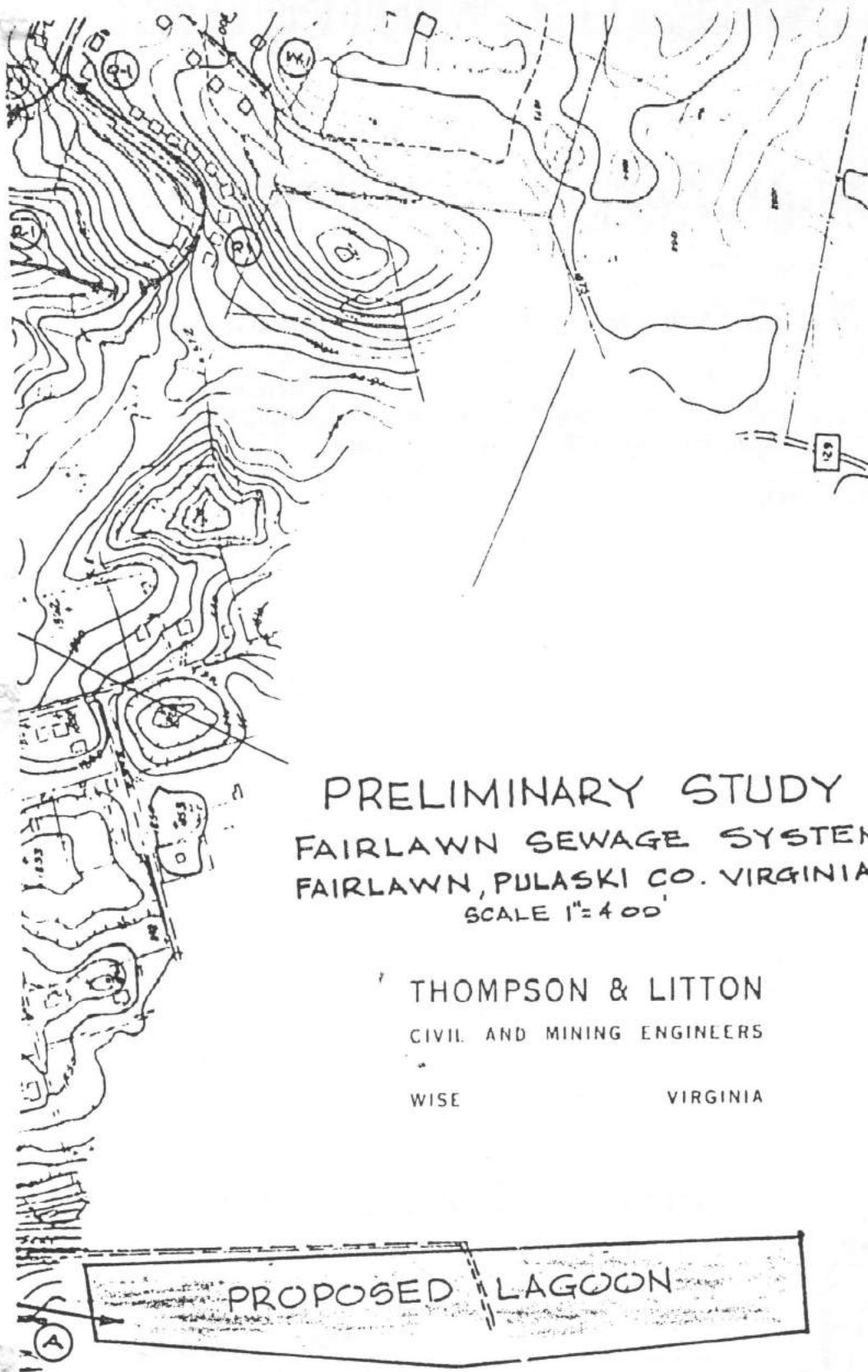


7



NEW RIVER —

8



PRELIMINARY STUDY
FAIRLAWN SEWAGE SYSTEM
FAIRLAWN, PULASKI CO. VIRGINIA
SCALE 1"=400'

THOMPSON & LITTON
CIVIL AND MINING ENGINEERS
WISE VIRGINIA

PROPOSED LAGOON

PLAT NO. 1

Commonwealth of Virginia



State Corporation Commission

I Certify the Following from the Records of the Commission:

The foregoing is a true copy of all documents constituting the charter of PULASKI COUNTY SEWERAGE AUTHORITY on file in the Clerk's Office of the Commission.

Nothing more is hereby certified.



*Signed and Sealed at Richmond on this Date:
June 12, 2008*

Joel H. Peck
Joel H. Peck, Clerk of the Commission

PROPOSED FACILITIES

There is no existing sewerage system for the Community of Fairlawn. Sewage disposal is accomplished through the use of septic tanks for all of the residences and business establishments.

Color difficulties are being experienced in Fairlawn, particularly after rains. This may be caused by overdosage of the land from the septic tanks, which waterlogs the soil and does not allow air to penetrate. The consequence of this is that the soil becomes laden with septic solids, or "sewage sick".

Exhibit No. 1 is a map showing the proposed gravity system which we recommend. Exhibit No. 2 is a table showing each of the proposed sewer lines, its size, length, the number of residences which it will serve and other information. Exhibits Nos. 1 and 2 include 4,000 L. F. of 12" sewer line, 12,670 L. F. of 10" sewer line, and 37,495 L. F. of 8" sewer lines.

We recommend the use of a sewage lagoon for the treatment of the effluent from this proposed system. Exhibit No. 3 is a schematic drawing of the proposed stabilization pond. Based on the number of residences to be presently served by this system, we estimate the population to be 1500. It is believed that the number of homes in this area has nearly doubled since 1940. We have used a design population of 2500. In the actual design of this project, provisions will be made for enlarging the lagoon in the event that enlargement becomes necessary.

The sewage lagoon should have a surface area of 6 1/2 acres at an operating level of 4 ft., as shown in Exhibit No. 3. This allows for one acre of surface area for each 400 persons served and complies with State Health Department requirements.

The location of the proposed sewage lagoon is southeast of Fairlawn, on the north side of New River. The site is east, or downstream, approximately 4,000 ft. from the Highway No. 11 bridge across New River to Radford. This is a relatively

isolated area. Natural drainage can be secured around the lagoon with relative ease. There are no water supplies nearby or other facilities which might be subject to contamination in the area.

The proposed sewage lagoon will be formed by an earth dike of suitable materials to prevent percolation, with suitable core material in the center of the dike. The top of the dike shall be at least 8 ft. wide and its height shall be at least 8 ft. above the bottom of the pond, the elevation of which shall be above the normal ground water table. The top of the dike will be placed above maximum flood level.

The perimeter of the dike shall be uniform as shown in Exhibit 3, and its cross section shall have a maximum slope of 3:1 both on the inside and outside embankment of the dike, and minimum slope of 4:1.

The earth dike shall be seeded and fenced, with a warning sign as to the nature of the facilities, a gate, and an all-weather access road to the dike.

The influent to the sewage lagoon will be a cast iron pipe with horizontal discharge near the center of the lagoon on a concrete splash block. The operating level will be controlled at a reinforced concrete outlet structure near the outfall of the sewage lagoon. The outlet structure will rest on the bottom of the pond with a permanent walkway for access.

The effluent structure will include contact tanks for chlorination and a metering device for measuring the flow.