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PUC DOCKET NO. 43069

APPLICATION OF INLINE DEVELOPMENT LLC FOR A RATE/TARIFF CHANGE	§ § §	PUBLIC UTILITY COMMISSION OF TEXAS

INLINE DEVELOPMENT LLC'S SUPPLEMENTAL APPLICATION INFORMATION, REQUEST TO REMOVE ABATEMENT, AND REVISED PROCEDURAL SCHEDULE

COMES NOW Inline Development LLC ("*Inline*"), by and through its attorneys of record, and files this Supplemental Application Information, Request to Remove Abatement, and Revised Procedural Schedule, and would show the following:

I. BACKGROUND

On August 28, 2014, Inline filed an Application for a Water and Sewer Rate/Tariff Change (the "*Application*") with the Public Utility Commission of Texas (the "*Commission*"). Most recently, on December 3, 2015, the Administrative Law Judge ("*ALJ*") issued Order No. 14 in this matter, setting a deadline of February 2, 2016 for Inline to provide additional information for its Application and for Inline and the Commission to jointly request to remove the abatement and provide a revised procedural schedule.

II. SUPPLEMENTAL APPLICATION INFORMATION

As previously noted, Inline and Commission Staff have conducted meetings to discuss additional information that Commission Staff needs to complete its review of Inline's Application. Accordingly, Inline has engaged consultants to prepare such additional information. Attached hereto as Attachment A is Inline's trending study, along with other supplemental, supporting materials.

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III. REQUEST TO REMOVE ABATEMENT AND PROCEDURAL SCHEDULE

Inline believes that the supplemental materials provided in Attachment A should address the Commission's Staff's requests for additional information. Thus, Inline requests that this Application proceed, unabated, through the Commission's review process. Further, it is Inline's understanding that the Commission will provide the proposed Revised Procedural Schedule through a separate, joint filing.

Respectfully submitted,

LLOYD GOSSELINK ROCHELLE & TOWNSEND, P.C.
816 Congress Avenue, Suite 1900
Austin, Texas 78701
(512) 322-5800
(512) 472-0532 (Fax)

DAVID J. KLEIN
State Bar No. 24041257
dklein@lglawfirm.com

CHRISTIE DICKENSON
State Bar No. 24037667
cdickenson@lglawfirm.com

ATTORNEYS FOR INLINE DEVELOPMENT LLC

CERTIFICATE OF SERVICE

I hereby certify that a true and correct copy of the foregoing document was transmitted by fax, hand-delivery and/or regular, first class mail on this 2nd day of February, 2016, to the parties of record.

David J. Klein

ATTACHMENT A

TRENDING STUDY AND SUPPLEMENTAL SUPPORTING MATERIALS

To: PUC Staff
From: Inline Development LLC

In our past communications, you have indicated that you need Inline to provide a Trending Study and other additional information to continue processing Inline's rate change application. To this end, Inline provides the following:

1. Trending Study and Supporting Documents. Enclosed behind Exhibit 1 is Inline's Trending Study, performed by GDS Associates, Inc. This Trending Study is based upon sound economic valuation principles, commonly used by experts in the field of water and wastewater utilities, to determine the original cost and current valuation of the Inline system. Additionally, Exhibit 1 contains a summary of the indices used in the Trending Study, as well as an explanation of why such indices were used. There is also a spreadsheet detailing which index was applied to each significant asset.

2. Photographs. To further support the Trending Study, Inline submits the photographs included in Exhibit 2. These pictures provide the additional detail requested by Commission Staff to prove-up the significant (above-ground) assets contained in the Trending Study.

3. Meters. Staff informally raised additional questions regarding the counting and accounting of meters in the Inline System. In response, Inline included the costs of the meters in the net cost of the system because all of the meters were initially installed at each lot- even if there was not a retail customer at that location yet. The development served by Inline is a zero lot-line development, and it is Inline's understanding that installing the meters initially was the most cost efficient solution with minimal disruption to the residents in the neighborhood.

4. Applying the Trending Study to Requested Rate Change Application. Per the Commission's request, the ALJ's prior order directs Inline to consider modifying its Application to take into consideration the net value of the larger assets that were used as a basis for determining the proposed rate increases. This request is a follow-up to the Commission's previous call for a Trending Study to determine the current net value of the assets after their total depreciation.

To this end, a detailed Trending Study, with supplemental comments, is provided in this filing. As noted above, this Trending Study lists the trended value of all major water and sewer service assets, the date the assets were installed, and the index used. Such data was then used to list the current trended values, age and total depreciation of the assets, and the net value of the assets (after depreciation).

Then, Inline used this information to modify all applicable PUC Water and Sewer Tariff Rate Change forms. Those forms are attached hereto as Exhibit 3 and are submitted to supplement the Application. Since most of the assets were installed a long time ago, the depreciated net value of those assets decreased substantially. As you will see in the revised forms in Exhibit 3, when these costs were applied to Inline's annual operating expenses, it provided further support to Inline's decision to apply for the "Alternate Method of Rate Design" as authorized in SECTION X of the application. (Note that Section X of the application has this statement: "After you have performed the calculations in Section IX, you may find that the cost increase per 1,000 gallons is not what you think your customers will approve. If that is the case, then the following will allow you to suggest your own increase...etc.")

Ultimately, the application of the Trending Study to the pending Application reveals that Inline could, and should, increase its rates above what it originally requested in the Application. However, in order to avoid rate shock to its retail customers, Inline has opted to continue seeking Commission approval for the rate increase it originally requested in the Application. Said another way, while Inline modified most Rate/Tariff Change application forms, it has not changed Table X.A. (the water rate per 1,000 gallons or the base rate). This is in compliance with the Section IX suggestions and has the additional benefit of not needing to send additional rate change notices to customers.

Exhibit 1

Trending Study/Summary of Trending Study/Spreadsheet Detailing Trending Study

Thomas G. Gebhard, Jr., P.E., Ph.D.
Executive Engineer

Ph: 512 494 0369
Fax: 512.494.0205
tom.gebhard@gdsassociates.com

To Whom It May Concern,

This report was prepared to establish the original cost and current value of the systems. Verification of assets, replacement cost valuation and the installation date of assets were provided to GDS Associates by Jerry Ince, P.E. of Ince Engineering, LLC. The replacement cost valuation is not an appraisal, but is reflective of the value of the systems based on recent contractor estimates.

The replacement costs and installed dates provided by Ince Engineering were then used to estimate the original cost of the plant. Indices used to estimate the original value of the system include the Handy-Whitman Cost Trending Index, the Engineering News-Record Building Cost Index History, and the United States Bureau of Reclamation Construction Cost Trends. The organizations compiling these indices gather construction cost information that includes materials, labor, equipment, overhead and profit. That information is summarized into an index number that is a percentage ratio between the cost of an item at any stated time and its cost at a base period. Engineers doing utility asset evaluations often rely upon these types of indices for estimating costs in different time periods for water and sewer utilities, as well as electric and natural gas utilities.

The trended original value of the assets was then used to calculate current net value of the assets. For those assets assigned a service life in Schedule III-3 of the Public Utility Commission's current Class B rate change application, those service lives were used to determine the net value of the assets using straight-line depreciation. Sewer assets were assigned service lives based on Schedule III.B. of the previous Commission application as service lives for sewer assets are not included in the current Class B application. For assets not assigned a service life by the Commission (identified by an asterisk in Column k of the report), the following service lives have been used:

Fire Hydrants	50 Years
Electrical Equipment	20 Years
Generators	20 Years
Sewer Pipe	50 Years
Structures – Metal	50 Years

If you have any questions about this project, please contact me at (512) 494-0369.

Sincerely,

Tomas G. Gebhard, Jr., P.E., Ph.D.
Texas Registered Engineer No. 39577

212 E HWY 90 A
Richmond, Texas 77406
281-232-7075
jgince@gmail.com

Ince Engineering, LLC

November 6, 2015

To whom it may concern.

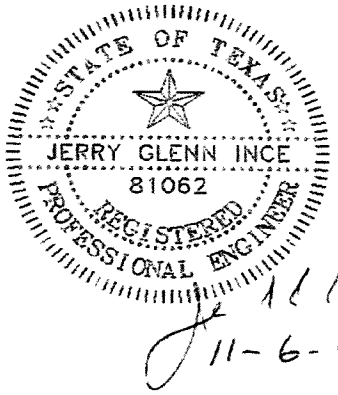
Re: Sugarberry Place and Cottage Gardens Trending Study

This letter is to acknowledge that Ince Engineering, LLC provided an evaluation of the installed components at the above referenced locations Ince Engineering field verified the above ground and visible items covered in the report. Below ground feature and items not accessible were taken from the construction drawings. The installation prices were evaluated from recent contractor estimates on similar items. Dates for the installations were obtained from interviews with the developer and system operator

If you have any questions regarding this project, please contact Jerry G. Ince, P.E. 281-232-7075, fax 281-232-7075.

Sincerely,

Jerry G. Ince, P.E.
President/Engineer



11/15
11-6-15

System (a)	Asset Type (b)	Asset Description (c)	Current Replacement Cost (d)	Date Installed (e)	Asset Age (Yrs.) 12/31/2013 (f)	Trending Index Code (g)	Install Trending Value (h)	Current Date Value (i)	Trended Original Asset Cost (j)	Asset Useful Life (k)		Annual Depreciation Expense (l)	Accumulated Depreciation (m)	Net Value (n)
Sugarberry Place	Fencing	8' Chainlink Fence 1,230 ft	$ 30,750	6/1/2000	13.6	ENR	3553	5497	$ 19,875	20		$ 994	$ 13,498	$ 6,378
Sugarberry Place	Fencing	Wooden Exterior 2850 ft	68,400	6/1/2000	13.6	ENR	3553	5497	44,211	20		2,211	30,024	14,186
Sugarberry Place	Fencing	Gate	750	6/1/2000	13.6	ENR	3553	5497	485	20		24	329	156
Sugarberry Place	Building Wood	Wooden Building	12,500	6/1/2000	13.6	HW-02	314	524	7,490	15		499	6,783	708
Sugarberry Place	Wells	2 Complete well	210,000	6/1/2000	13.6	HW-01	296	439	141,595	50		2,832	38,464	103,130
Sugarberry Place	Pump > 5hp	2-25 hp booster pumps	35,000	6/1/2000	13.6	HW-03	532	928	20,065	10		-	20,065	-
Sugarberry Place	Pressure Tanks	8,000 gal Pressure Tank	65,000	6/1/2000	13.6	HW-07	270	742	23,652	50		473	6,425	17,227
Sugarberry Place	Ground Storage Tanks	125,000 gal GST	250,000	6/1/2000	13.6	HW-07	270	742	90,970	50		1,819	24,712	66,258
Sugarberry Place	Distribution System	8" 1260 Pipe 960 ft	58,560	6/1/2000	13.6	HW-17	201	338	34,824	50		696	9,460	25,364
Sugarberry Place	Distribution System	6" 1260 Pipe 426 ft	25,240	6/1/2000	13.6	HW-17	201	338	15,010	50		300	4,077	10,932
Sugarberry Place	Distribution System	4" 1260 Pipe 13,472 ft	431,104	6/1/2000	13.6	HW-17	201	338	256,367	50		5,127	69,642	186,725
Sugarberry Place	Distribution System	2" 1260 Pipe 5,938 ft	112,822	6/1/2000	13.6	HW-17	201	338	67,092	50		1,342	18,226	48,867
Sugarberry Place	Distribution System	Fire Hydrants, 3	11,700	6/1/2000	13.6	HW-21	496	816	7,112	50	*	142	1,932	5,180
Sugarberry Place	Meters and Services	3/4" Meters and service connections, 402	241,200	6/1/2000	13.6	HW-18	275	504	131,607	20		6,580	89,378	42,230
Sugarberry Place	Misc	Electric Controls - water plant	22,000	6/1/2000	13.6	HW-03	532	928	12,612	20	*	631	8,565	4,047
Sugarberry Place	Misc	Plant Electric <= 20HP	22,000	6/1/2000	13.6	HW-03	532	928	12,612	20	*	631	8,565	4,047
Sugarberry Place	Misc	Diesel Generator	75,000	6/1/2009	4.6	M-44	502	564	66,755	20	*	3,338	15,298	51,458
Sugarberry Place	Misc	Cl2 Facilities	1,000	6/1/2000	13.6	HW-06	382	765	499	10			499	
Sugarberry Place	Distribution System	Yard Piping	75,000	6/1/2000	13.6	HW-13	314	647	36,399	50		728	9,888	26,511
Sugarberry Place	Collection System	10" SDR26 Sewer Pipe - 10,708 ft	642,360	6/1/2000	13.6	HW-17	201	338	381,995	50	*	7,640	103,769	278,226
Sugarberry Place	Collection System	8" SDR26 Sewer Pipe - 1,676 ft	92,180	6/1/2000	13.6	HW-17	201	338	54,817	50	*	1,096	14,891	39,926
Sugarberry Place	Collection System	6" SDR26 Sewer Pipe - 2,947 ft	147,350	6/1/2000	13.6	HW-17	201	338	87,625	50	*	1,753	23,803	63,822
Sugarberry Place	Sewer Service	402 service connections	72,000	6/1/2000	13.6	HW-18	275	504	39,286	20		1,964	26,680	12,606
Sugarberry Place	Plant Sewers	200,000 gpd	2,000,000	6/1/2000	13.6	ENR	3553	5497	1,292,705	50		25,854	351,163	941,542
Sugarberry Place	Building Metal	Metal Building no roof	208,000	6/1/2000	13.6	HW-04	314	524	124,641	50		2,493	33,859	90,782
Sugarberry Place	Lift Station	2 Lift Stations	120,000	6/1/2000	13.6	HW-13	358	647	66,399	50	*	1,328	18,037	48,362
Sugarberry Place	Misc	Electrical controls sewerplant	30,000	6/1/2000	13.6	HW-03	532	928	17,198	20	*	860	11,680	5,519
Sugarberry Place	Misc	Diesel Generator	60,000	6/1/2009	4.6	M-44	502	564	53,404	20	*	2,670	12,238	41,166
Sugarberry Place	Land	Lots for plants -3	111,400	6/1/2000	13.6	USBR L51	209	618	37,674	n/a			-	37,674
Sugarberry Place Total			$ 5,231,316						$ 3,144,977			$ 74,026	$ 971,949	$ 2,173,028

System (a)	Asset Type (b)	Asset Description (c)	Current Replacement Cost (d)	Date Installed (e)	Asset Age (Yrs.) 12/31/2013 (f)	Trending Index Code (g)	Install Trending Value (h)	Current Date Value (i)	Trended Original Asset Cost (j)	Asset Useful Life (k)		Annual Depreciation Expense (l)	Accumulated Depreciation (m)	Net Value (n)
Cottage Gardens	Fencing	8' Chainlink Fence 500'	$ 12,500	5/1/2004	9.7	ENR	3956	5497	$ 8,996	20		$ 450	$ 4,348	$ 4,648
Cottage Gardens	Fencing	Gate - 8	6,000	5/1/2004	9.7	ENR	3956	5497	4,318	20		216	2,087	2,231
Cottage Gardens	Building -Wood	Wooden Building	12,500	5/1/2004	9.7	HW-02	356	524	8,492	15		566	5,473	3,019
Cottage Gardens	Building -Metal	Metal Building - Maintenance	135,000	5/1/2004	9.7	HW-02	356	524	91,718	50	*	1,834	17,733	73,984
Cottage Gardens	Wells	2-Complete well	210,000	5/1/2004	9.7	HW-01	338	439	161,686	50		3,234	31,261	130,424
Cottage Gardens	Pump <= 5hp	2 15 hp booster pumps	16,000	5/1/2004	9.7	HW-03	569	928	9,810	10		981	9,484	326
Cottage Gardens	Pump <= 5hp	1-10 hp booster pumps	8,000	5/1/2004	9.7	HW-03	569	928	4,905	10		491	4,742	163
Cottage Gardens	Pressure Tanks	12,000 gal Pressure Tank	75,000	5/1/2004	9.7	HW-07	313	742	31,637	50		633	6,117	25,520
Cottage Gardens	Ground Storage Tanks	126,000 gal GST	252,000	5/1/2004	9.7	HW-07	313	742	106,302	50		2,126	20,553	85,749
Cottage Gardens	Distribution System	12" 1260 Pipe -1,375 ft	96,250	5/1/2004	9.7	HW-17	230	338	65,496	50		1,310	12,663	52,832
Cottage Gardens	Distribution System	10" 1260 Pipe -4,188 ft	272,220	5/1/2004	9.7	HW-17	230	338	185,238	50		3,705	35,815	149,423
Cottage Gardens	Distribution System	8" 1260 Pipe -2,024 ft	123,464	5/1/2004	9.7	HW-17	230	338	84,014	50		1,680	16,244	67,770
Cottage Gardens	Distribution System	6" 1260 Pipe -7,351 ft	441,060	5/1/2004	9.7	HW-17	230	338	300,130	50		6,003	58,029	242,100
Cottage Gardens	Distribution System	4" 1260 Pipe -3,284 ft	105,088	5/1/2004	9.7	HW-17	230	338	71,510	50		1,430	13,826	57,683
Cottage Gardens	Distribution System	Fire Hydrants, 16	40,000	5/1/2004	9.7	HW-21	552	816	27,059	50	*	541	5,232	21,827
Cottage Gardens	Meters and Services	3/4" Meters and service connections 570	351,690	5/1/2004	9.7	HW-18	326	504	227,482	20		11,374	109,957	117,525
Cottage Gardens	Misc	Electric Controls Water Plant	22,000	5/1/2004	9.7	HW-03	569	928	13,489	20	*	674	6,520	6,969
Cottage Gardens	Misc	Plant Electric <= 20HP	22,000	5/1/2004	9.7	HW-03	532	928	12,612	20	*	631	6,096	6,516
Cottage Gardens	Misc	Diesel Generator	75,000	6/1/2009	4.6	M-44	502	564	66,755	20	*	3,338	15,298	51,458
Cottage Gardens	Misc	Cl2 Facilities	1,000	5/1/2004	9.7	HW-06	382	765	499	10		50	483	17
Cottage Gardens	Misc	Yard Piping	75,000	5/1/2004	9.7	HW-13	358	647	41,499	50	*	830	8,024	33,475
Cottage Gardens	Collection System	12" SDR26 Sewer Pipe - 1,377 ft	89,505	5/1/2004	9.7	HW-17	230	338	60,906	50	*	1,218	11,776	49,130
Cottage Gardens	Collection System	10" SDR26 Sewer Pipe - 4,188 ft	288,480	5/1/2004	9.7	HW-17	230	338	196,303	50	*	3,926	37,955	158,348
Cottage Gardens	Collection System	8" SDR26 Sewer Pipe - 2,024 ft	111,320	5/1/2004	9.7	HW-17	230	338	75,750	50	*	1,515	14,646	61,104
Cottage Gardens	Collection System	6" SDR26 Sewer Pipe 7,351 ft	367,550	5/1/2004	9.7	HW-17	230	338	250,108	50	*	5,002	48,358	201,750
Cottage Gardens	Collection System	4" SDR26 Sewer Pipe - 3,284 ft	114,940	5/1/2004	9.7	HW-17	230	338	78,214	50	*	1,564	15,122	63,091
Cottage Gardens	Collection System	Manholes, 57	256,500	5/1/2004	9.7	HW-12	408	506	206,822	50	*	4,136	39,988	166,834
Cottage Gardens	Sewer Service	570 service connections	102,600	5/1/2004	9.7	HW-18	326	504	66,364	20		3,318	32,078	34,286
Cottage Gardens	Land	Lots for plants -1	142,500	5/1/2004	9.7	USBR L51	246	618	56,723	n/a				56,723
Cottage Gardens	Misc	3-phase	28,000	5/1/2004	9.7	HW-03	532	928	16,052	20	*	803	7,759	8,293
Cottage Gardens Total			$ 3,853,167						$ 2,530,890			$ 63,579	$ 597,669	$ 1,933,220

Attachment A –

Resume of Thomas G. Gebhard, Jr., P.E., Ph. D.

EDUCATION

B.S. Civil Engineering, University of Texas at Austin, June 1962.

M.S. Environmental Health Engineering, University of Texas at Austin, January 1964.

Ph.D., University of Texas at Austin, June 1968.

PROFESSIONAL MEMBERSHIP

Texas, No. 39577

PROFESSIONAL SOCIETIES

American Society of Civil Engineers

American Water Works Association

CONTINUING EDUCATION

- Short Course in Engineering Systems Analysis at Massachusetts Institute of Technology in June 1969.
- Second International Seminar for Hydrology Professors at Utah State University in Austin 1970.
- EPA Short Course in Water Quality Management at Edison, N.J. Water Quality Laboratory in March 1971.
- NSF Short Course in Flow Through Porus Media with Applications to Ground Water Hydrology at University of Wisconsin, Madison, Wisconsin, July 1971.
- Short Course in Energy Conservation and Management in Manufacturing Facilities at The University of Texas at Austin, June 1977.
- EPA Seminar on Small Wastewater Flows, Dallas, Texas, August 1977.
- EPA Seminar on Pretreatment of Industrial Wastes, Dallas, July 1978.
- EPA Seminar in Troubleshooting at Wastewater Treatment Plants - Process Control, Sludge Handling and Conditioning, Dallas, August 1978.
- ASCE Seminar on Flood Plain and Drainage Analysis, Lubbock, October 1978.
- EPA Seminar on Sludge Treatment and Disposal, Dallas, November 1978.
- Cost of Capital for Regulated Utilities, Public Utilities Reports, Washington, D.C., September 1983.

PROFESSIONAL SERVICE

GDS Associates, Inc.
Dr. Gebhard joined GDS Associates, Inc. on July 30, 1997 and became a shareholder on January 1, 2001. The following summarizes Dr. Gebhard's significant project work.

- Representation of East Texas Electric Coops as Hydroelectric Power Customers of Southwestern Power Administration at Meetings of (a) Southwestern Power Resources Association on O&M expenditures, (b) Corps of Engineers on Hydropower issues, and (c) joint meetings of Southwestern Power Administration and Corps of Engineers on operations, maintenance and capital replacements.

- Canyon Lake Water Supply Corporation: Provided an independent review of the proposed purchase of this 6,600 connection member owned water system by a major publicly traded investor owned water utility. The review included a general evaluation of the assets and facilities, evaluation of the ownership capabilities, and assessment of the proposed purchase price which included a comparison with purchases of similar systems. The resulting report was submitted to the WSC's directors, and the customers ultimately approved the sale.
- AquaTexas, Inc.: Supervised a project team that prepared a complete update to the Company's Texas capital asset rate base accounts to meet state filing requirements. Prepared responses to financial, accounting and technical questions, and provided support testimony in the regulatory proceedings. The capital asset valuation update included adding over $50 million dollars of capital additions and a complete asset valuation for 10 purchased systems for which no records were available.
- SJWTX Water, Inc.: Performed an evaluation of four water systems offered for purchase by SJWTX Water, Inc. Inspected systems, reviewed plans, developed inventory, and computed a trended evaluation of net book value.
- Aqua Texas, Inc.: Performed an evaluation of the water and wastewater systems at Cypress Bayou, north of Orange, Texas. Performed field inspection and determined the value of Replacement Cost Depreciated from asset summaries. Also evaluated ratio of market capitalization to book value, comparable sales values, and net present value of future cash flows. The valuation was used in negotiations between Aqua Texas and the City of Orange, Texas.
- Aqua Texas, Inc.: Performed an evaluation of the water and wastewater systems at Crighton Ridge, south of the City of Conroe, Texas. Performed field inspection and determined the value of Comparable Sales, Ratio of Market Capitalization to Book Value, and net present value of future cash flows. The valuation was used in negotiations between Aqua Texas and the City of Conroe, Texas.
- AquaSource Utility, Inc.: Provided a valuation of purchased assets by developing an inventory, using financial records and trending to determine original cost, depreciation, value at acquisition, and replacement cost depreciated in Docket Nos. 2000-1074-UCR, 2000-1075-UCR, 2000-1366-UCR, 2000-1367-UCR, 2000-1368-UCR and 2000-1369-UCR before the Texas Natural Resource Conservation Commission and Dockets Nos. 582-01-0416 and 582-01-1365 before State Office of Administrative Hearings.
- Maverick County Water Control and Improvement District No. 1: Analysis of electrical marketing and value of power produced by deliveries of water by MCWCID, analysis of FERC licensing status, and alternate hydroelectric power generation capabilities.
- American States Utility Services, Inc.: Preparation of proposal for purchase of water and wastewater utility systems of Channel Islands, Kingsley Field, Fresno Air Terminal Air National Guard Stations, and Corpus Christi Naval Stations.
- Southwest Utilities, Inc.: Providing expert witness services and regulatory assistance for an application to change the company's water and sewer rates in Dockets 31791-R and 31792-R before the Texas Natural Resource Conservation Commission.
- H-M-W Water Supply Corporation: Preparation of an Engineering Report for the conversion of a Water Supply Corporation to a Special Utility District and the provision of regulatory services before the Texas Natural Resource Conservation Commission.
- Ables Springs Water Supply Corporation: Provision of regulatory assistance and expert witness services in support of an application to amend the certificated service area before the Texas Natural Resource Conservation Commission.

- Brushy Creek Municipal Utility District: Providing an analysis of water utility rates charged by the City of Round Rock and performing true-up calculations based upon a mutual agreement to use a methodology used by TNRCC in a docket to settle a rate dispute between the parties.
- Utility Center, Inc. of Fort Wayne, Indiana (A subsidiary of AquaSource Utility, Inc.): Computation of Replacement Cost New Less Depreciation (RCNLD) as part of a rate case before the Indiana Utility Regulatory Commission (IURC), Cause No. 41968, requiring a review of plant asset accounts, inspection of assets, evaluation of electronic maps, and trending of original cost data.
- Azurix North America, Inc.: Planning study for support of Request for Waiver of 75/90 Rule of Texas Natural Resource Conservation Commission for Southwest Utilities, Inc.
- B&D Environmental Inc.: Providing support services in valuation of water and wastewater utility assets.
- AquaSource Utility Inc.: Performing a valuation study for water and wastewater utility assets of Central Jefferson County Utility Company of Missouri for litigation support in Cause No. 4:00CV863DDN in the United States District Court, Eastern District of Missouri.
- Acquisition Partners, Inc. (A former subsidiary of AquaSource Inc.): Preparation of Statements of Interest in acquiring utility assets of U.S. military bases, and investigation of opportunities on specific military installations.
- J.W. Lightfoot: Protest of Connection Fee

Dr. Gebhard has been active in providing volunteer services to professional committees. The committees and activities include:

Electric Power Research Institute: Probable Maximum Flood Guidelines Committee
EPRI with the cooperation of the Federal Energy Regulatory Commission (FERC) developed a set of guidelines for the determination of the Probable Maximum Flood. The committee provided peer review for the contractor, Bechtel Corporation, and has reviewed the draft document. 1992 - 1994.

American Society of Civil Engineers: Energy Division - Hydro Power Committee
Hydro Power Guidelines: Small-Scale Hydropower Subcommittee
A comprehensive set of guidelines for planning and designing the civil engineering aspects of hydroelectric facilities was produced in a five-volume set over within a five-year period. Dr. Gebhard chaired the subcommittee that produced the volume on small-scale hydropower. The ASCE publication, *Civil Engineering Guidelines for Planning and Designing Hydroelectric Developments*, won the 1990 ASCE Rickey Medal. 1984-1989.

Task Committee on Rehabilitation of Hydroelectric Power Plants
A set of guidelines for the rehabilitation of civil engineering facilities at hydroelectric plants was produced as a companion set to the design guidelines. Dr. Gebhard was a member of the control group that produced the ASCE publication, *Guidelines for Rehabilitation of Civil Works of Hydroelectric Plants*. 1989-1991.

Task Committee on Lessons Learned from the Design, Construction, and Operation of Hydroelectric Facilities
This committee effort is to compile information on the powerhouse and the facilities that convey water to, through, and from the powerhouse. The ASCE publication, *Lessons Learned from the Design, Construction, and Operation of Hydroelectric Facilities*, that was produced by the committee, won the 1995 ASCE Rickey Medal. 1991 - 1994.

Gebhard Sarma Group, Inc.

The engineering firm was founded by Dr. Gebhard in March 1977 in Austin, Texas. After June 1984, the firm was known as Gebhard Engineers. The company changed its name from Gebhard Engineers, Inc. to Gebhard Sarma Group, Inc. on March 3, 1992 when principals of Sarma & Associates and Project Design Consultants joined Gebhard Engineers, Inc. The firm provided engineering services in the development and management of water and energy resources, as well as civil engineering services for land development and utility companies. The following summarizes his participation on some projects until he left on July 25, 1997.

- U.S. Department of Energy: Conducted Field Reconnaissance Studies to Evaluate the Development of Hydroelectric Power. Visited, Examined, and Reported on Over 110 Dams in the States of Kansas, Missouri, Iowa, Kentucky, Tennessee, Mississippi, Georgia, South Carolina, Florida, Alabama, and North Carolina and in the Commonwealth of Puerto Rico to Determine Feasibility of Adding Hydroelectric Power Generation Facilities to Existing or Abandoned Sites.
- State of Kansas, Department of Energy: Performed feasibility study for the addition of hydroelectric power to Rocky Ford Dam on the Big Blue River near Manhattan, Kansas. The dam initially had turbines and generators, but they had been removed. A detailed hydrologic analysis was made to determine the a suitable investment strategy to obtain more power during peak summer months. As Rocky Ford Dam established the tailwater elevation for a Corps of Engineers Dam, a detailed dam safety study was conducted and reviewed by the Corps of Engineers. Suitable enhancements to the fishery were designed to accompany the addition of hydroelectric power to the dam.
- American Hydro of Peterborough, New Hampshire: Design and Construction Supervision for 700 KW Hydroelectric Plant, Included Negotiations with Corps of Engineers for Construction and Operation at Corps Owned Dam, Design of Intake Structure, Penstock, Powerhouse, and Tailrace.
- Energy Law Institute of Concord, New Hampshire: On Contract with Metropolitan District Commission (Boston, Mass) to Determine Potential for Developing Hydroelectric Power at Water Supply Dams.
- U.S. Agency for International Development for K&M Engineering Co.: Conducted Field Reconnaissance Studies to Evaluate the Potential for Developing Small Hydroelectric Power Sites. Visited, Examined, and Reported on Four Small Hydroelectric Projects in the Republic of Armenia. Reviewed the Armenia Plan to produce more hydroelectric power. Recommended the Purchase of Hydroelectric Equipment produced in Russia and Armenia.
- U.S. Agency for International Development for K&M Engineering Co.: Visited Republic of India to negotiate the wording of a model power purchase agreement with the Federal Government. The model agreement would enable the state governments to purchase power from independent power producers who have built run-of-the-river hydroelectric plants.
- City of Charleston, Illinois: Consultant for Development of Hydroelectric Power at Breached Water Supply Dam.
- International Boundary and Water Commission, El Paso, Texas: Planning for Proposed Hydroelectric Dam to be combined with a new bridge, border crossing on Rio Grande upstream from Laredo, Texas.
- U.S. Section, International Boundary and Water Commission, El Paso, Texas: Developed hydraulic and hydrologic flow model of Rio Grande below Falcon Dam for use in assessing the availability of water pursuant to an application for a water right at the Texas Natural Resource Conservation Commission.
- U.S. Bureau of Indian Affairs and U.S. Department of Justice: Preparing Surface Water Hydrology Study of 26,000 Square Mile River Basin in New Mexico and Arizona in Support of Indian Water Rights Claims in Arizona and New Mexico.

- U.S. Department of Justice: Supervision of Modifications to SWRRB - Rainfall Runoff Model by U.S. Agricultural Research Service and Texas A&M Research Foundation, Modifications to Add Routing Model for Application in Large Drainage Basins.
- Earthworks, Inc., New Hampshire: Consultant for Design and Construction for Addition of Turbine at Dam.
- International Boundary and Water Commission, El Paso, Texas: Performed an analysis of drought conditions on Rio Grande in vicinity of El Paso.
- City of Austin: Seven Contracts - (a) Performed Hydrologic Studies for Addition of Hydroelectric Power to Longhorn Dam, (b) Performed Analysis of the Addition of Hydroelectric Power to Onion Creek Wastewater Treatment Plant, (c) Design of Storm Sewers in Areas with Excessive Drainage Waters, (d) Design of Wastewater Interceptor Sewer for Slaughter Creek to Bear Creek Segment using a 54 Inch Diameter Tunnel through the Austin Chalk Formation, (e) Analysis of Water Availability and Rights Related to Charges for Water By LCRA, (f) Master Planning for Stormwater Runoff in the Walnut Creek Watershed, and (g) Erosion Controls in Miscellaneous Watersheds.
- City of Cedar Park, Texas: Rate Consultant for Establishing Water and Wastewater Utility Rates in 1987. Provided Advisory Services on Water Rates in 1991. Conducted 1993 Rate Study.
- City of Pasadena, Texas: Consultant for Water Rates in Dispute with City of Houston before Texas Water Commission. Provided Prefiled Expert Witness Testimony in Docket Nos. RC-022 and RC-023. Provided consultation in settlement agreement and negotiation of new contract. This docket was settled before hearing began.
- Kirtland Air Force Base, New Mexico: Water and Wastewater Rate Study for Contract Renewal with the City of Albuquerque, New Mexico. Reviewed the Impact of Ground Water Rights, Recharge from the Rio Grande, and Water Purchases from the City on Base Operations. Both City and Base adopted recommendations for Rates and Operational Modifications.
- Coe Utilities, Inc.: Prepared "Valuation Studies for Facilities of Coe Utilities, Inc." that was used to support a loan from the Texas Water Development Board to H-M-W Water Supply Corporation for the purchase of water and wastewater facilities owned by Coe Utilities, Inc., May 1996.
- Southwest Utilities, Inc., Texas: Prepared Application and Provided Expert Witness Testimony for Rate Increase in Docket No. 4824 before the Public Utility Commission of Texas in 1983. Prepared Application for Rate Increase in TWC Docket No. 7456-R. Prepared Application for Rate Increase in TWC Docket No. 9296-R.
- Military Highway Water Supply Corporation, Relampago, Texas: Analyzed water use and financial data to develop a recommendation for new water and wastewater utility rates. Examined water supply alternatives for colonia located in service area of WSC.
- Greystone Country Estates, Inc., Texas: Provided Expert Witness Testimony in TWC Docket No. 9954-X for establishing extension fee for a developer served by Hill Country Waterworks, Inc. Performed used and useful analysis of transmission system of Hill Country Waterworks, Inc.
- Onion Creek Wastewater Corporation, Texas: Prepared the application for a Certificate of Convenience and Necessity, and developed a rate structure for a newly formed Investor Owned Utility. Changed the rates in a subsequent proceeding.
- North Runnels Water Supply Corporation, Texas: Provided Expert Witness Testimony in TWC Docket No. 8496-W for Review of Water Rates Charged by the City of Winters.
- Staff Water Supply Corporation, Texas: Provided Expert Witness Testimony in TWC Docket No. 9240-M for Review of Water Rates Charged by the City of Carbon.
- Woodcreek Utilities, Inc., Texas: Provided Assistance in Creating Capital Structure and Acquisition Adjustment for Company whose rates were being Arbitrated as condition of sale by Federal Deposit Insurance Corporation in TWC Docket No. 7486-R.

- City of Truth or Consequences, New Mexico: Analyzed Local Groundwater Conditions and Testified at Hearing of New Mexico State Engineers Office for Water Right. Developed Project and Obtained Funding from Three Agencies to Develop a Low Temperature Geothermal Well for Providing Energy for Space Heating of the Senior Citizens Center.
- City of Georgetown and City of Round Rock, Texas: Provided Expert Witness Testimony in TWC Docket No. 8169-M, Dow Chemical Company v. Brazos River Authority, regarding issues on water management, Hydrologic system of Brazos River, dam failures, and other engineering and water management issues affecting water rates.
- West Leonard Water Supply Corporation, Texas: Provided Water Utility Rate Advisory Services in Rate Appeal before the Texas Water Commission.
- Poetry Water Supply Corporation and Lawrence Water Supply Corporation, Texas: Provided Rate Advisory Services in Review of Rates of the City of Terrell in TWC Docket 7331-M.
- Coe Utilities, Inc., Texas: Prepared Application and Provided Expert Witness Testimony for Rate Increase In Docket No. 5757 before the Public Utility Commission of Texas.
- Consultant to Protestants of Rate Increase of H&J Water Company. Provided Expert Witness Testimony in Docket No. 7054-R before the Texas Water Commission.
- Consultant to Utilities for Rates and Capital Improvement Programs for Utilities with Wells. Utilities include Southwest Utilities, Inc., Coe Utilities, Inc., Shoreline Utilities, Inc., and Green Valley Water Supply Corporation.
- Hornsby Bend Water Company: Prepared Application for Certificate of Convenience and Necessity, Wrote Tariff, Prepared Layout of Water and Wastewater Utility, Locating Source of Well Water in Eastern Travis County.
- Cap-View Utility Company: Prepared Application for Certificate of Convenience of Necessity, Wrote Tariff, and Testified on Water Quality Issues at Hearing on Discharge Permit.
- Creedmoor-Maha Water Supply Corporation: Prepared Testimony Against Applicant for Certificate of Convenience and Necessity in Certificated Service of Creedmoor-Maha.
- City of Rollingwood, Texas: Served as Hydrologist for City, Obtained Amendment for Change of 100 Year Flood Plain from Federal Emergency Management Agency, Review Plans for Development in 100 Year Flood Plain and for Detention and Filtration Ponds.
- Southern Rio Grande Council of Governments: Provided Consulting Services to Improve Energy Use Efficiency of Six Municipal Utilities Providing Water, Wastewater, Electric and Natural Gas Service. Included Analysis of Groundwater Conditions for Each Municipal Utility.

  New Mexico Energy Institute: Performed Two Studies Relating to Planning for the Use of Geothermal Waters in Dona Ana County, New Mexico. Coordinated Planning of City, County, and State Governments.
- New Mexico Solar Energy Institute: Performed Feasibility Analysis of Proposed Bioconversion Project to Produce Ethanol from Algae.
- Subcontractor to Walsh Engineering Co: Advised and Assisted in Proposed Conversion of Municipal Water Well to Low Temperature Geothermal Heating Source for Hubbard, Texas.
- Willow Springs Water Supply Corporation: Conducted Examination of Well in Karst Aquifer with High Concentration of Chlorides and Recommended New Source of Water from Adjacent Utilities.

Public Utility Commission of Texas

Director of Public Utilities

From November, 1975 through February, 1977, I was the Chief Administrative Officer of the Public Utility Commission (PUC). The PUC was created on September 1, 1975, and began regulating the rate and services of over 2,000 electric, telephone, water and sewer utilities on September 1, 1976. During my employment, the PUC went from an organization of administrative support personnel to a

functioning regulatory agency composed of accountants, attorneys, economists and engineers. The following summarizes my administrative responsibilities:

(1) Hiring of Key Personnel
(2) Hiring Facilities and Equipment
(3) Establishing Administrative Procedures
(4) Approving Expenditures
(5) Contracting Company Officials to Resolve Consumer Complaints
(6) Coordinating the Drafting of Substantive Rules to Regulate Rates and Services of Public Utilities

City of Las Cruces, New Mexico
Director of Utilities
From January, 1974 through October, 1975, I directed the planning engineering and operations of the municipal water, wastewater and natural gas systems, and I was Operations Manager for the Rio Grande Natural Gas Association. The following summarizes my administrative experiences:

(1) Prepared and Administered $5.3 Million Operations Budget
(2) Administered Engineering Contracts for over $3 Million in Capital Improvement
(3) Supervised 130 Employees
(4) Developed merit award system which doubled the number of certified operators, laboratory technicians and welders
(5) Established Engineering Section
(6) Developed an Accounting and Work Order System based upon Uniform System of Utility Accounting
(7) Contracted for Engineering Work with Five Consulting Engineering Firms

The following summarizes my experience on the water distribution system:

(1) Coordinated City Participation in Regional Study of Groundwater Resources by U.S. Geological Survey
(2) Contracted for Wells in a New Field
(3) Began Installation of Telemetry Equipment for Remote Monitoring and Operation

The following summarizes my experience on the natural gas distribution system:

(1) Began Operation of Telemetry Equipment for Remote Monitoring and Operation
(2) Began Installation of Cathodic Protection
(3) Established Curtailment Allotments
(4) Testified on Curtailment Problems before the Federal Power Commission and Committees of the New Mexico Legislature
(5) Testified at Rate Hearing of the New Mexico Public Service Commission
(6) Proposed Separation of Service Area Served by Dual Facilities of Two Companies

New Mexico State University
Department of Civil Engineering
From September, 1967 through August, 1971, I was an Assistant Professor. From September, 1971 through January, 1975, I was an Associate Professor with tenure. From January, 1975, through December, 1975, I was an Adjunct Associate Professor. The following summarizes my teaching experiences:

1) Teaching of Graduate Courses in

(a) Water Resources Engineering
(b) Open Channel Hydraulics
(c) Groundwater Hydrology
(d) Surface Water Hydrology
(e) Introduction to Research (Statistics, Regression Analysis, Dimensional Analysis, Nomography)

2) Teaching of Undergraduate Courses in
(a) Hydraulics
(b) Advances Hydraulics
(c) Groundwater Hydrology
(d) Sanitary Engineering
(e) Strength of Materials
(f) Statics
(g) Introduction to Engineering II (Slide Rule Operations and FORTRAN Programming)

3) Advisory Duties
(a) 20 Undergraduate Students per year
(b) 8 EPA Graduate Traineeships per year
(c) Directed program of Study for 5 M.S. Students
(d) Directed program of Study for 2 Sc. D. Students
(e) Participated on 22 Thesis Review Committees

The following summarizes my research experiences:

- Grant on Flood Control Planning in New Mexico
- Grant on Water Utilization of Rio Grande to analyze Economic Impact of Water Use Alternatives
- Supervised Thesis Research in Groundwater Modeling, Recharge Wells, Dispersion Analysis, Water Quality Modeling and Flooding in Detroit
- Management of $292,777 in Grant Funds from 1969 through 1974

The following summarizes my service activities:

- Delegate to UCOWR from 1970 through 1975; Chairman of Committee on Education and Research in Water Resources Engineering
- Chairman of Technical Advisory Committee of Southern Rio Grande Council of Governments for performing A-95 Reviews
  Member of New Mexico Water Conference Planning Committee
- Member of New Mexico Land Use Conference Planning Committee
- Consultant to Elephant Butte Irrigation District
- New Mexico Delegate to O.W.R.R. Conferences to Establish Research Priorities for Southern Plains and Great Basis Regions
- Director for Developing Curriculum and Writing Grant Proposal for Training Program of Water and Wastewater Utility Operators which was created in the College of Continuing Education

University of Texas, 1966-1967
Research Engineer Assistant

Toledo Bend Dam Model Study. I supervised the construction of the model, conducted the tests and evaluated the data. 1964.

- Wind Wave Flume. I designed and built the flume, conducted tests on overtopping of seawalls and evaluated the test data. 1964.

- Teaching Associate. I taught the undergraduate civil engineering course of Fluid Mechanics. 1966.
- Dispersion in Reservoirs, I performed field tests using tracers in Lake Travis. Using numerical analysis techniques, I solved the two dimensional convective dispersion equation explicitly, implicitly and characteristically.

Dr. Frank D. Masch, 1963
Consultant
Performed the engineering analysis for a water well for the Austin Country Club.

U.S. Geological Survey, 1960-1963
Hydraulic Engineer
Performed field duties of streamflow measurement and streamflow station maintenance.

Trending Comments for Inline Utilities

Various groups and agencies compile construction cost indices, in which materials, labor, equipment, overhead, and profit are summarized into an index number that is a percentage ratio between the cost of an item at any stated time and its cost at a base period. These cost indices are sometimes referred to by their functional use -- trending indices. Because these construction indices relate construction costs to the same base period, indices can be used to relate costs from one time period to another time period by their ratio. Thus, known construction costs from an earlier period can be used to estimate construction costs at a later time period or from a later date to an earlier period. Three separate indices for this study for Inline Utilities: (1) Handy-Whitman Index of Water Utility Construction Costs for the South Central Region (Region 4); (2) the ENR (formerly Engineering News Record) Index of Building Cost Trends; and (3) the Bureau of Reclamation Construction Cost Trends.

The Handy-Whitman Index was the primary reference source used for this study because utility regulators and the industry routinely accept it. The Handy-Whitman Index is commonly used in Texas ratemaking dockets. Whitman, Requardt and Associates from Baltimore, Maryland, prepare the Handy-Whitman Index for six different geographical regions of the United States. For wastewater treatment facilities and fencing, the Building Cost Index of ENR is the most suitable alternative when the Handy-Whitman Index is not applicable. The ENR Building Cost Index is preferable to the ENR Construction Cost Index because it has a slightly lower inflation rate. The U.S. Bureau of Reclamation Construction Cost Trends Index is used for land costs and other specialized items not covered by the Handy-Whitman Index and the ENR Building Cost Index.

The three indices exist in tabular form by utility item and dates. The Handy-Whitman Index is through a copyrighted, subscription service available at https://www.wrallp.com/about-us/handy-whitman-index The ENR Building Cost Index is available through http://www.enr.com/economics/historical_indices The U.S. Bureau of Reclamation Construct Cost Trends Index is located at http://www.usbr.gov/tsc/techreferences/mands/cct.html. A list of which index and asset type was used for each class of item is attached to these comments.

To estimate the original cost of an item, one uses the replacement cost of the item for current date, and multiplies that cost by the ratio of the trending index of the installation date to the

trending index of the current date. The resulting value is an appropriate estimate of the original cost of the utility asset:

$$\text{Original Cost} = \frac{\text{Installation Index Value}}{\text{Current Index Value}} \times \text{Replacement Cost}$$

For example, to estimate the original purchase price of 8" plastic pipes with a current replacement cost of $58,560 and an installation date of 6/1/2000, you must first determine the correct index to use for the item. In this case, the Handy-Whitman Index is appropriate, specifically the line for PVC Mains. The current index value for PVC Mains is 338 and the index value for the installation date is 201. The original cost of $58,560 is multiplied by the ratio of the two trending values in order to come up with an original cost of $34,824.

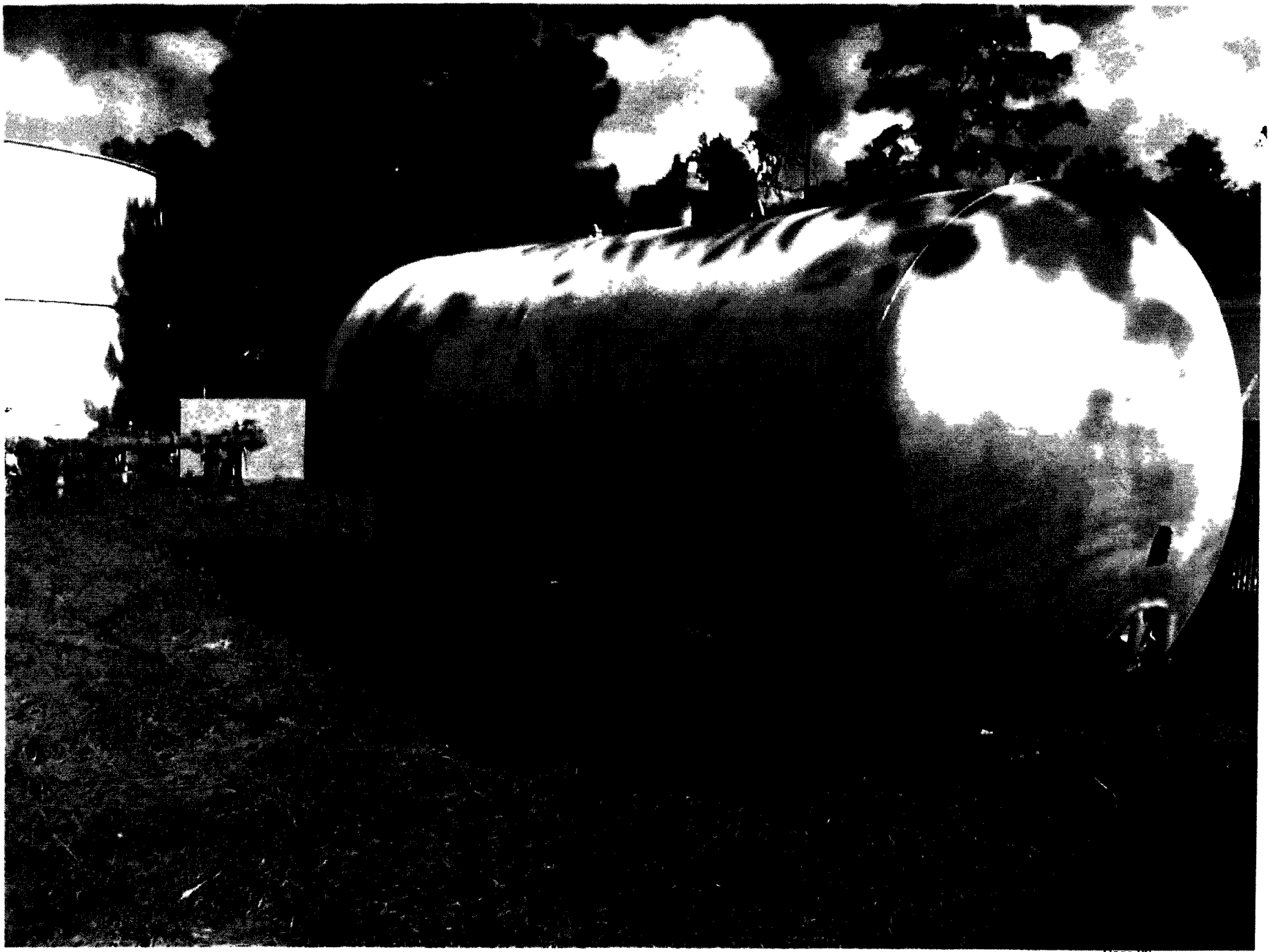
$$\$34{,}824 = \frac{201}{338} \times \$58{,}560$$

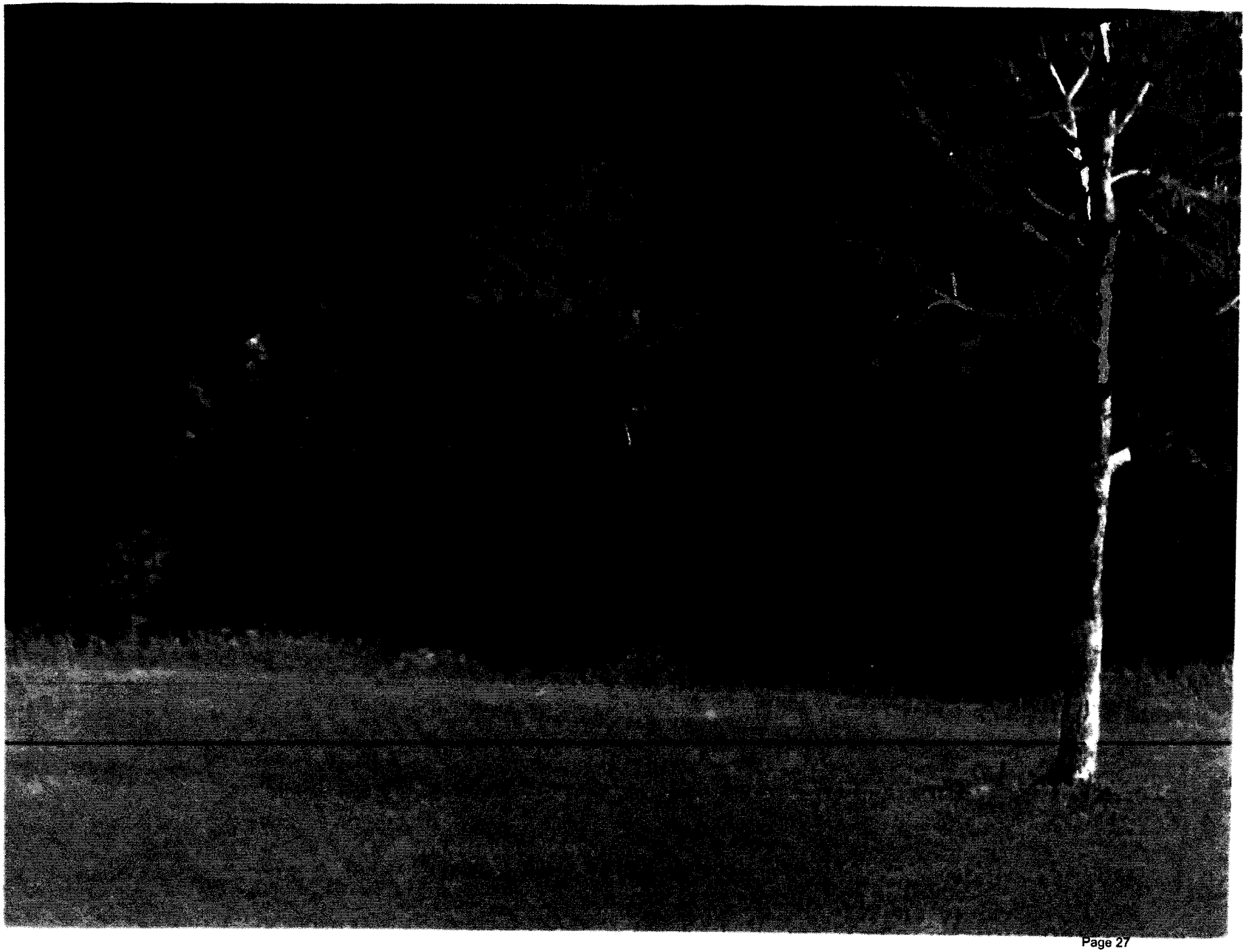
Similarly for land, if the current cost is estimated to be $111,400 and the ratio of the applicable USBR trending ratios is 209/618, the estimate of the original purchase price is $37,674. The estimated original costs determined by the trending study are then depreciated to find the net value of the assets at the end of the Inline Utilities' test year.

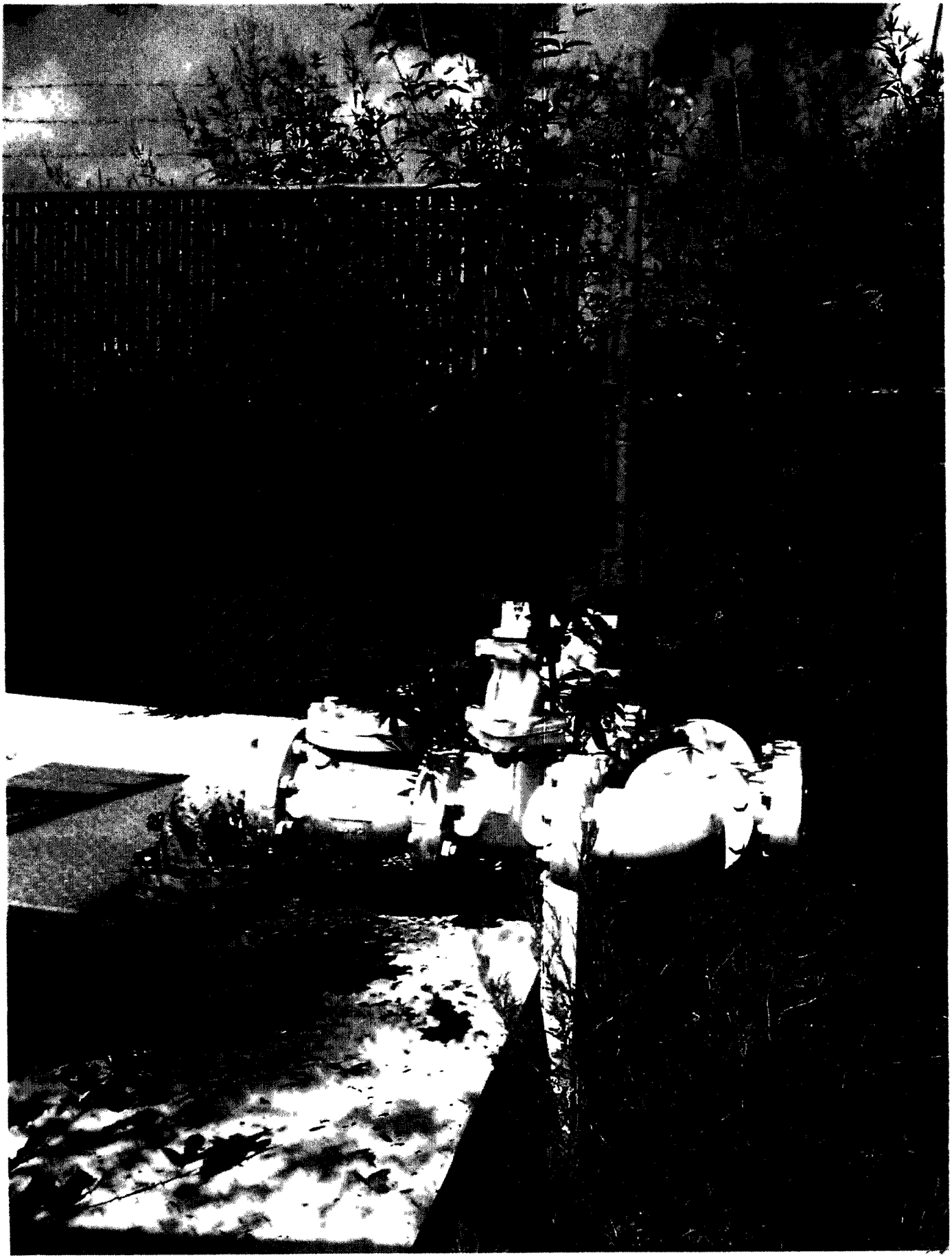
Asset Type	Index Used	Index Line No.	Index Category Description
Fencing	Engineering News Report	N/A	Building Cost Index History
Building - Wood	Handy Whitman Water	8	Pumping Plant Structures and Improvements
Building - Metal	Handy Whitman Water	8	Pumping Plant Structures and Improvements
Wells	Handy Whitman Water	2	Collecting & Impounding Res.
Pump <= 5hp	Handy Whitman - Water	9	Electric Pumping Equipment
Pump > 5hp	Handy Whitman - Water	9	Electric Pumping Equipment
Pressure Tanks	Handy Whitman - Water	23	Steel Reservoirs
Ground Storage Tanks	Handy Whitman Water	23	Steel Reservoirs
Distribution System	Handy Whitman - Water	38	PVC Mains
Meters and Services	Handy Whitman - Water	39	Services Installed
Misc. - Electrical	Handy Whitman - Water	9	Electric Pumping Equipment
Misc - Diesel Generator	Handy Whitman - Materials	50	Construction Equipment
Misc. - Chloranators	Handy Whitman - Water	17	Small Treatment Plant Equipment
Misc. - Yard Piping	Handy Whitman - Water	34	Mains - Average all Types
Collection System	Handy Whitman - Water	34	Mains - Average all Types
Sewer Service	Handy Whitman - Water	39	Services Installed
Plant - Sewer	Engineering News Report	N/A	Building Cost Index History
Lift Station	Handy Whitman - Water	34	Mains - Average all Types
Land	U.S Bureau of Reclamation	L51	Land - Texas

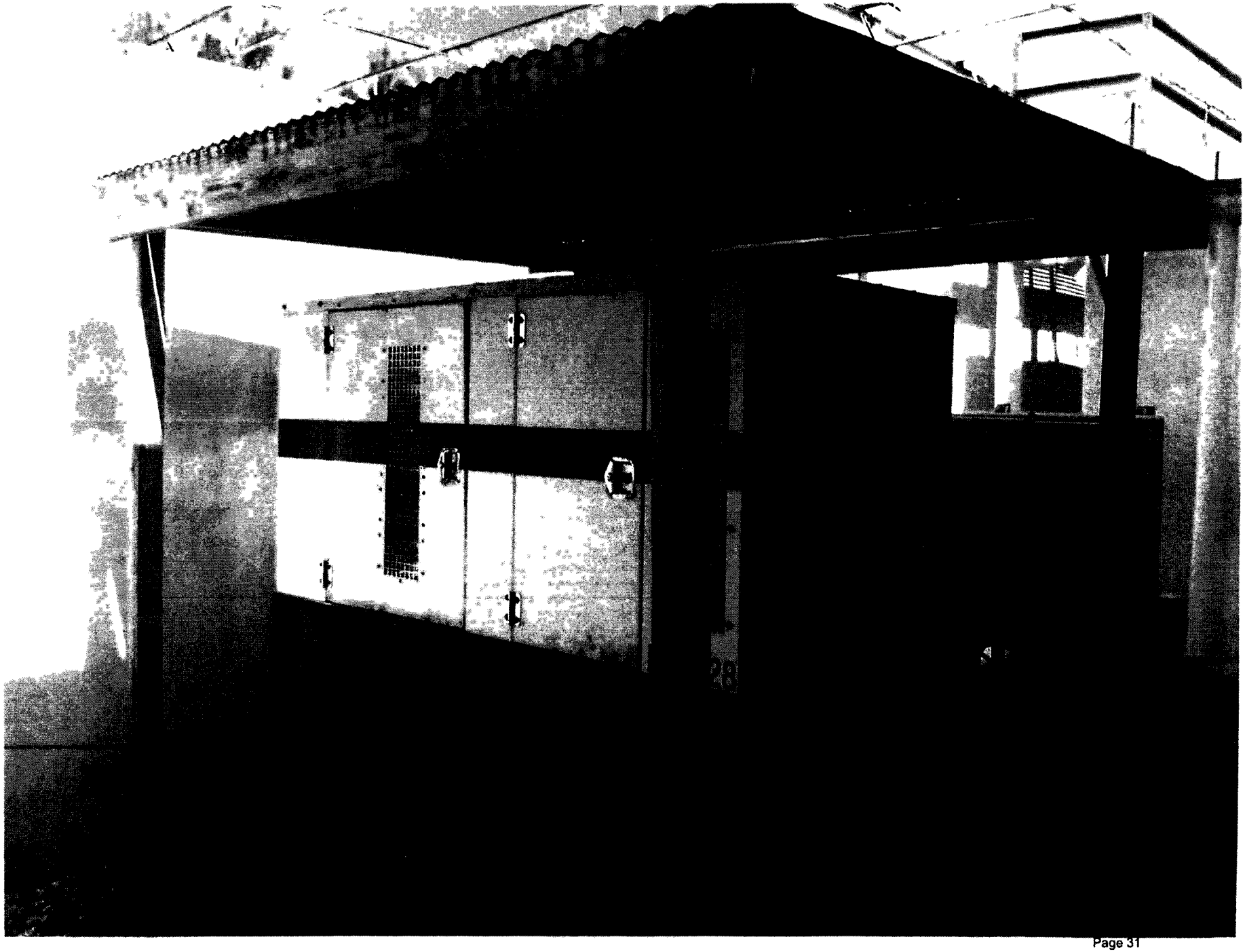
Exhibit 2

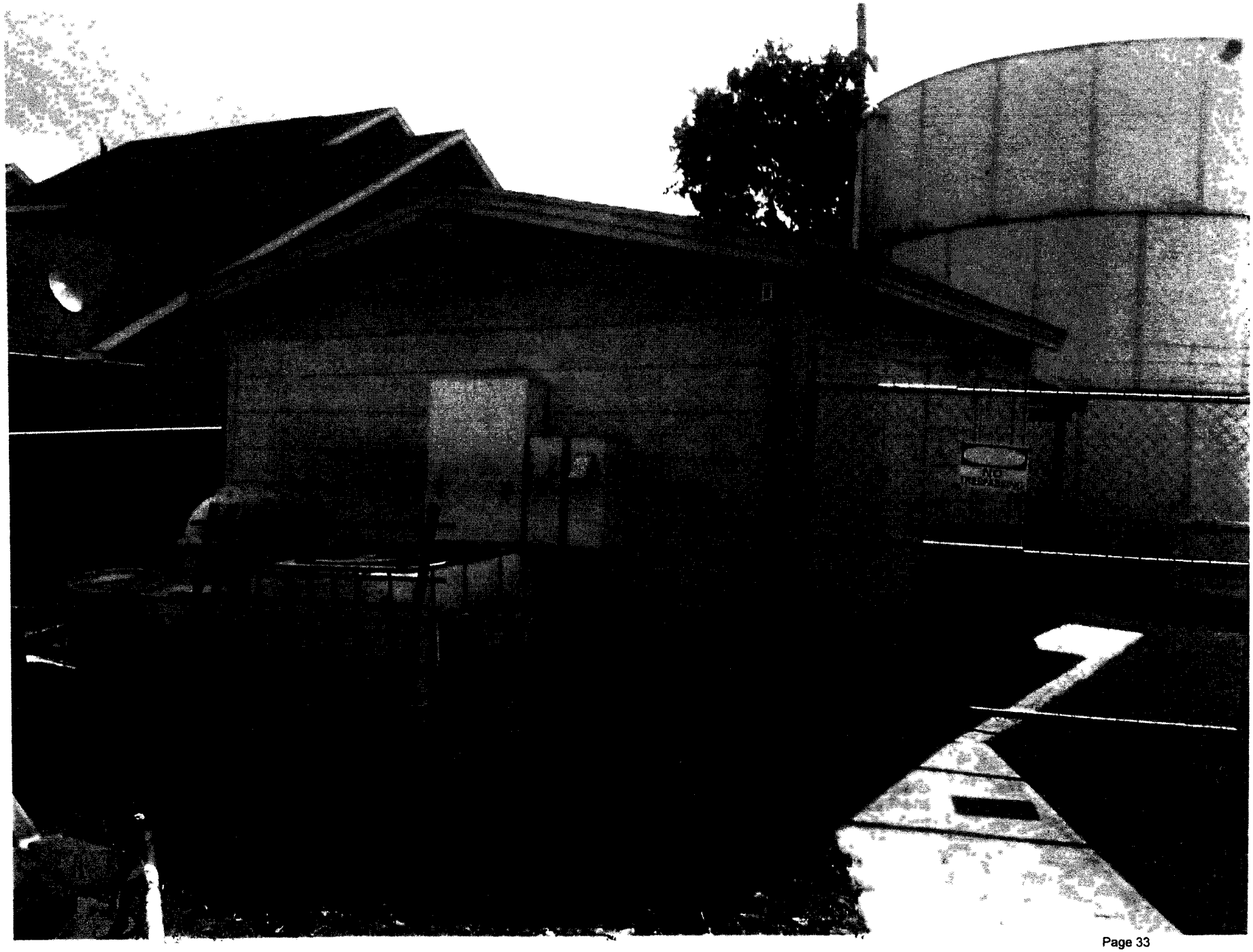
Photographs of Inline System

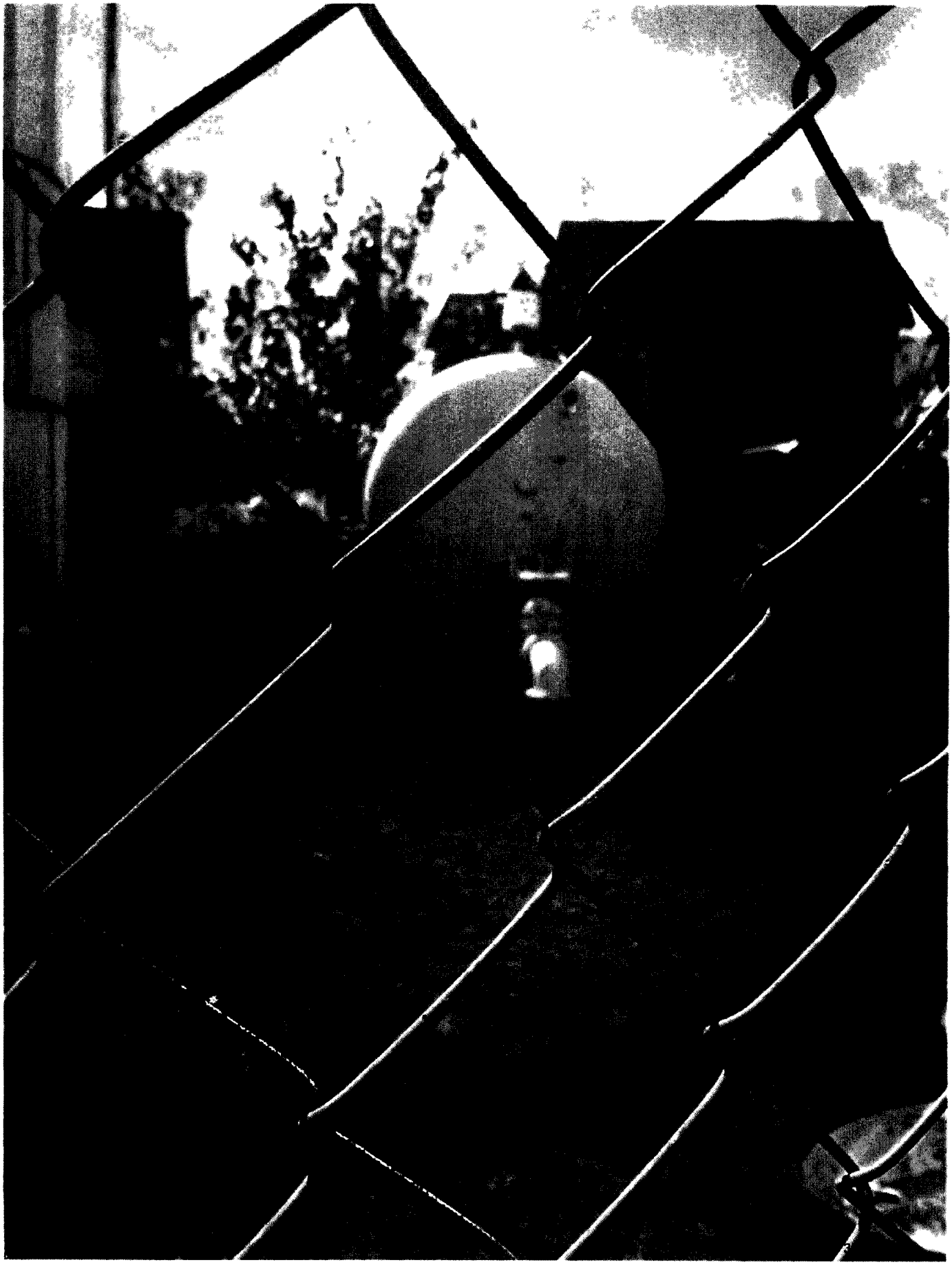


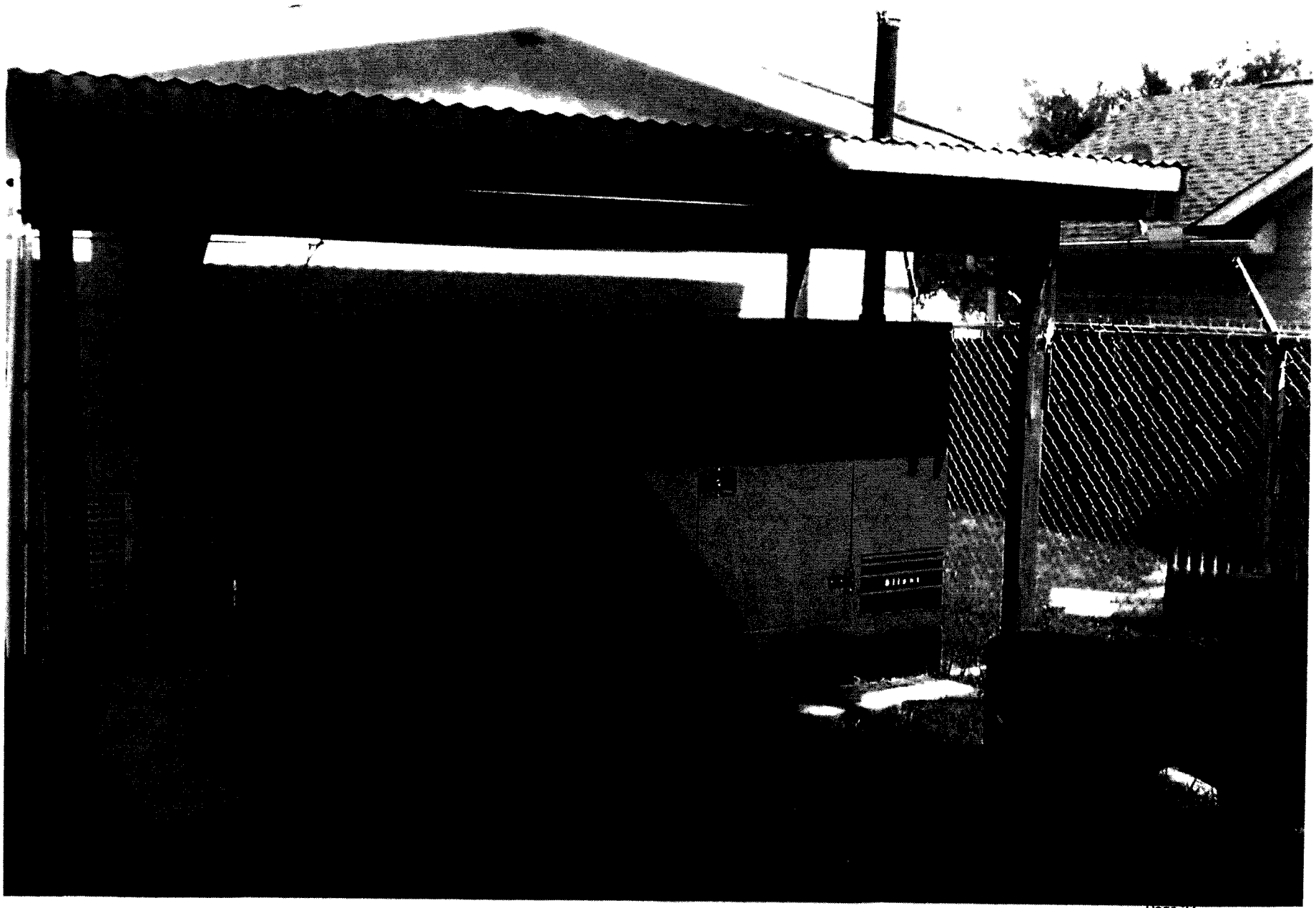












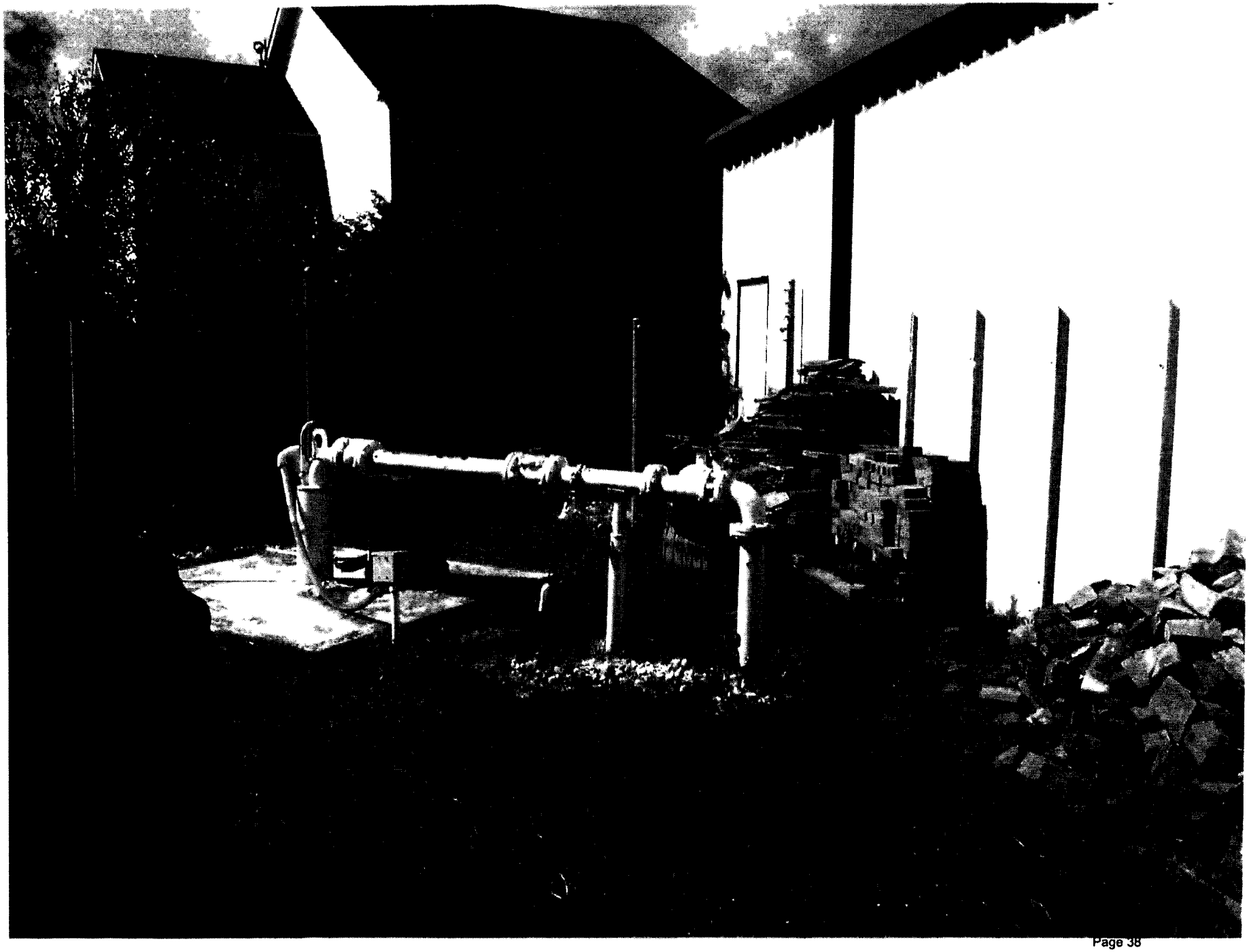


Exhibit 3

Modified PUC Water and Sewer Tariff Rate Change Forms

B. ORIGINAL COST & DEPRECIATION SCHEDULE – WATER

Please provide the following inventory of the water utility plant being used to provide water service at the end of the test year. You will be responsible for supporting this information with invoices or other documentation. Round your figures to the nearest dollar. **Amounts should be computed as of the end of the "test year."**

Table III. B.

[A]	[B]	[C]	[	Depreciation					
Item	Date Of Installation	Service Life (yrs) * **	Original Cost when installed $	Years in Service YR ①	Mos ①①	Days ①①①	[E] = [D]/[C] Annual ($)	[F] Accumulated ($)	[G] = [D]-[F] Net Book Value ($)
Land		n/a							
Wells	1/1/2004	50	303281	15.3			6065.6	92803.9	210477
Well Pumps:									
5 hp or less		5							
Greater than 5 hp	1/1/2004	10	20065	14			2006	20065	0
Booster Pumps:									
5 hp or less		5							
Greater than 5 hp	1/1/2004	10	14715	10			1471	14715	0
Chlorinators		10							
Structures:									
Wood	1/1/2001	15	53188	13			3546	46098	7090
Masonry		30							
Storage Tanks	1/1/2004	50	197272	12			3945	47345	149927
Pressure Tanks	1/1/2000	50	55289	12			1106	13269	42020
Distribution System (mains and lines)	1/1/2004	50	359149	12			17957	215489	144260
Meters and Service (taps not covered by fees)	1/1/2004	20	85496	12			8550	85496	0
Office Equipment		10							
Vehicles		5	0						
Shop Tools		15	0						
Heavy Equipment (diesel gen.)	1/1/2009	10	133550	5			13355	66775	66775
Fencing	1/1/2004	20	33189	12			1659	19913	132756
Other: (Please list)									
Total			2335213				81317①	881706②	1573589③

* TCEQ Suggested Service Life ** Other Service Life

①Enter this number in **Table VI. A., Line [O], Column①** ② If [F] is greater than [D], enter the total for [D] ③ Enter this number in **Table IV. E., Line [A]**

- Attach additional sheet(s) if necessary -

E. INVESTED CAPITAL & RETURN – WATER

Table IV. E.

Net Book Value - From **Table III. B., Box** ③	[A]	$1,573,589
Working cash allowance -Amount From **Table VI. A., Line [L] Column** ③, Box ⑦(÷⑧)	[B]	$35,015
Materials and supplies	[C]	$112,033
Subtotal - Sum of [A] thru [C]	[D]	$1,720,637
Developer Contributions - From **Table III. C., Box** ①	[E]	$0
Total invested capital [D] - [E]	[F]	$1,720,637
Rate of return - From **Table IV. D., Box** ⑧	[G]	11.0%
Return/Interest - If [F] is greater than -0-, then enter [F] * [G]. If [F] is less than -0-, enter -0-. Enter this amount in **Table V., Line [A] and Table VI. A., Line [Q], Column** ②	[H]	$189,270

SECTION V - INCOME TAX CALCULATION – WATER

Use the following table to determine the amount of income tax that can be included in your revenue requirement.

Table V.

Return - From **Table IV. E., Line [H]**	[A]	$189,270
Interest Calculation		
Total Invested Capital - From **Table IV. E., Line [F]**	[B]	$147,048
Weighted Cost of Debt Capital - Percentage From **Table IV. D., Box** ⑥	[C]	11.0%
Interest [B]*[C]	[D]	$16,175
Taxable Income [A] - [D]	[E]	$173,095
Enter Income Tax from Tax Table **(Appendix A)**	[F]	$56,536

①**To Table VI. A., Line [P], Column** ②

SECTION IX - RATE DESIGN - WATER

A. VARIABLE RATE CALCULATIONS

Table IX. A.

	Line		Instructions
Total Variable Costs	[A]	$104,252	From Table VI. A., Line [T], Box ⑩ or Line [U], Box ⑩
Total # of Gallons Billed to Customers	[B]	30.084M	From Table VIII, Line [B]
Total # of 1,000 Gallons billed	[C]	30,084	Divide Line [B] by 1,000
Variable Cost per 1,000 gallons	[D]	$3.47	Divide Line [A] by Line [C] Transfer to Table IX. B., Lines [E] through [J], Box ⑥

B. BASE RATE CALCULATIONS

Table IX. B.

		Line		# of 1000 gallons in base bill	Variable cost per 1,000 gals	Variable cost to be added to base rate	Total base rate per meter size
			①	②	③	④=②*③	⑤=①+④
Total fixed costs - From Table VI. A., Line [T], Box ⑨ or Line [U], Box ⑨		[A]	$ 240,959				
Total meter equivalents at end of test year - From Table VII, Line [K], Box ⑤		[B]	669				
Base charge per meter equivalent or for each unmetered connection [A] +[B] and then divide by 12		[C]	$ 26.37				
Base charge per meter size							
5/8" x 3/4" or unmetered	Multiply [C] by 1	[D]	26.37	0	3.47 ⑥	0	26.37
3/4"	Multiply [C] by 1.5	[E]	39.56	0	3.47 ⑥	0	210.96
1"	Multiply [C] by 2.5	[F]	65.93	0	3.47 ⑥	0	210.96
11/2"	Multiply [C] by 5.0	[G]	131.85	0	3.47 ⑥	0	210.96
2"	Multiply [C] by 8.0	[H]	210.96	0	3.47 ⑥	0	210.96
3"	Multiply [C] by 15.0	[I]	395.55	0	3.47 ⑥	0	395.55
Other:		[J]			⑥		

⑥ From Table IX. A., Line [D]

SECTION X - ALTERNATE METHOD OF RATE DESIGN - WATER

After you have performed the calculations in **SECTION IX**, you may find that the cost per 1,000 gallons is not what you think your customers will approve. If that is the case, then the following will allow you to calculate a rate structure that still recovers your revenue requirement, but with rates that you think may be more appropriate for your customers.

Table X. A.

	Line		
Cost per 1,000 gallons	[A]	$ 3.47	This is the rate that you think is appropriate Enter in **Table X. B., Column ③ , Lines [B] through [H]**
Total # of 1,000 Gallons billed	[B]	30,084	From **Table IX. A., Line [C]**
Total Cost to be recovered through gallonage charge	[C]	$ 104,391	Multiply Line [A] times Line [B]
Total Revenue Requirement	[D]	$ 315,915	From **Table VI. A., Line [T] Box ⑧**
Total to be recovered through base rate	[E]	$ 211,524	Subtract Line [C] from Line [D]
Total number of meter equivalents	[F]	669	From **Table VII, Line [K], Box ⑤**
Base rate per meter equivalent	[G]	$ 26.37	Divide Line [E] by Line [F] & then divide by 12months Enter this in **Table X. B, Line [A] Column ①**

Table X. B.

		Line		# of 1000 gallons in base bill	Variable cost per 1,000 gals	Variable cost added to base	Total base bill per meter size
			①	②	③	④=②*③	⑤=①+④
Base charge per meter equivalent or for each unmetered connection From **Table X. A, Line [G]**		[A]	$ 26.37				
Base rate per meter size							
5/8" x 3/4" or unmetered	Multiply [A] ① by 1	[B]	26.37	0	3.47 ⑥	0	26.37
3/4"	Multiply [A] ① by 1.5	[C]	39.56	0	3.47 ⑥	0	39.56
1"	Multiply [A] ① by 2.5	[D]	65.93	0	3.47 ⑥	0	65.93
11/2"	Multiply [A] ① by 5.0	[E]	131.85	0	3.47 ⑥	0	131.85
2"	Multiply [A] ① by 8.0	[F]	210.96	0	3.47 ⑥	0	210.96
3"	Multiply [A] ① by 15.0	[G]	395.55	0	3.47 ⑥	0	395.55
Other:		[H]			⑥		

⑥ From **Table X. A., Line [A]**

B. ORIGINAL COST & DEPRECIATION SCHEDULE – SEWER

Please provide the following inventory of the water utility plant being used to provide water service at the end of the test year (for sewer attach a similar list). You will be responsible for supporting this information with invoices or other documentation. Round your figures to the nearest dollar. **Figures should be computed as of the end of the test year.**

Table III. B.

[A]	[B]	[C]		[D]	Depreciation					
Item	Date of Installation	Service Life (yrs)		Original Cost when installed ($)	Years in Service			[E] = [D]/[C] Annual ($)	[F] Accumulated ($)	[G] = [D]-[F] Net Book Value ($)
		*	**		Yrs ①	Mos ①①	Days ①①①			
Land		n/a								
Collection Sewers										
Gravity	1/1/2002	50		1099681	12			21994	26923	835757
Force	1/1/2002	50		77898	12			1558	18695	59202
Pumping Equipment		5		0						
Treatment & Disposal Equipment	1/1/2002	25		1331991	12			53279	639356	692635
Structures										
Wood		15		0						
Masonry		30		0						
Plant Sewers	1/1/2002	50		324006				6480	71281	252725
Outfall sewer lines		50		0						
Laboratory Equipment		10		0						
Meters and Service (taps not covered by fees)	1/1/2002	20		277482	10			13874	138741	138741
Office Equipment	1/1/2002	10		27687	12			2769	27687	0
Vehicles		5								
Shop Tools		15								
Heavy Equipment (Diesel Gen.)	1/1/2002	10		120159	12			120159	120159	0
Fencing		20								
Other: (Please list)										
Lift Stations	1/1/2002		50	66399	14			1328	18592	47807
Total				3325303				221441①	1279842②	2026867③

* Commission Suggested Service Life ** Other Service Life

① Enter this number in **Table VI. A., Line [O], Column** ①, ② if [F] is greater than [D], enter the total for [D], ③ Enter this number in **Table IV.E., Line [A]**

-Attach additional sheet(s) if necessary-

C. DEVELOPER CONTRIBUTIONS - SEWER

If any of the Items listed in the Depreciation Schedule were contributed by a developer, please list those items and the associated cost below.

Item	Date of installation or Contribution	Total Cost	Amount of Developer Contribution	Net Book Value (from Table III.B.)
Total				①

Table III. C.

A. EQUITY

How much equity or total capital does the company have in the utility? $1,086,889 ① this amount

Enter also in **Table IV. D., Box** ③ below

B. RATE OF RETURN

What rate of return (profit) on investment in plant (equity) is expected? 11.0%

Enter also in **Table IV. D., Box** ④ below

NOTE: You may choose

- an average equity return established by the staff each year and included with the Annual Report Instructions **OR**
- an interest rate that you think is fair that is less than the rate established by the staff **OR**
- to use the **Rate of Return Worksheet** which is attached to the **Instructions.** x

C. BANKRUPTCY

Has the utility or utility owner filed bankruptcy within the last seven years? ____ Yes __x__ No

If YES, explain status of applicant at this time.

D. DEBT & EQUITY - SEWER

List the following information concerning debt and equity of the utility and attach copies of notes payable:

Round all percentages to two (2) decimal places.

Table IV. D. SEWER

[A] Name of Bank/Lender	[B] Date of Issue	[C] Date of Maturity	[D] Original Amount of Loan	[E] Outstanding or Unpaid Balance- **End of Test Year**	[F] Interest Rate	[G] Weighted Average [E] ⑤*[F]
Part 1 - Debt						
			$	$	%	%
			$	$	%	%
SEWER PORTION 60%			$	$1,086,892	9.5%	9.5%
			$	$	%	%
			$	$	%	%
		Total	$ ①	$ ②		9.5%⑥
		Part 2 - Investment/Equity	$100%		11.0%④	119,558%⑦
		Total Debt & Equity	$1,086,892 ⑤			
					Rate of Return	%⑧

① Total amount of original loans
② Total amount of the outstanding balance on the loans
③ Equity in the utility - From **Section IV. A.**
④ Return on Equity - **From Section IV. B.**
⑤ Total of ②+③
⑥ Total weighted average of debt - To **Table V, Line [C]**
⑦ Weighted average of Investment/Equity ③÷⑤*④
⑧ Sum of ⑥ + ⑦ - To **Table IV. E., Line [G]**

E. INVESTED CAPITAL & RETURN - SEWER

Table IV. E.

Net Book Value - From **Table III. B., Box** ③	[A]	$2026867
Working cash allowance - (Amount From **Table VI. A., Line [L] Column** ③, Box ⑦(÷ 8)	[B]	$39210
Materials and supplies	[C]	$60419
Subtotal - Sum of [A] thru [C]	[D]	$2125496
Developer Contributions - From **Table III. C., Box** ①	[E]	$0
Total invested capital [D] - [E]	[F]	$2125496
Rate of return - **From Table IV. D., Box** ⑧	[G]	11.10%
Return/Interest - If [F] is greater than -0-, then enter [F] * [G]. If [F] is less than -0-, enter -0-. Enter this amount in **Table V., Line [A] and Table VI. A., Line [Q], Column** ②	[H]	$233804

SECTION V - INCOME TAX CALCULATION – SEWER

Use the following table to determine the amount of income tax that can be included in your revenue requirement.

Table V.

Return - From **Table IV. E., Line [H]**	[A]	$233804
Interest Calculation		
Total Invested Capital - From **Table IV. E., Line [F]**	[B]	$2125496
Weighted Cost of Debt Capital - Percentage From **Table IV. D., Box** ⑥	[C]	9.5%
Interest [B]*[C]	[D]	$201922
Taxable Income [A] - [D]	[E]	$31882
Enter Income Tax from Tax Table **(Appendix A)**	[F]	$5647

①To **Table VI. A., Line [P], Column** ②

SECTION VI - UTILITY INCOME & EXPENSE INFORMATION – SEWER

A. REVENUE REQUIREMENT

Please provide the following information regarding the cost to the utility of providing sewer utility service over your selected twelve month "test year.@

Note 1 - Instead of using the percentages listed, you may take the Total Cost and multiply it by 67% to determine the fixed portion and 33% for the variable portion.

TABLE VI. A.

Test Year [redacted] to [redacted]	Line	12 Month "test year" per books	Known and Measurable Changes	Revenue Requirement for next yr	% of ③ that is fixed (Note 1)	Fixed Expenses (Note1)	Variable Expenses (Note 1)
		①	②	③=①+②	④	⑤=(③*④)/100	⑥=③-⑤
Salaries and Wages	[A]	20400		20400	50		
Contract Labor	[B]	82225		82225	90		
Purchased Water	[C]	0		0	0		
Chemicals for Treatment	[D]	11161		11161	0		
Utilities (Electricity)	[E]	21620		21620	0		
Repairs/Maintenance/Supplies	[F]	60419		60419	50		
Office Expenses	[G]	22130		22130	50		
Accounting & Legal Fees	[H]	28108		28108	100		
Insurance	[I]	3827		3827	100		
Rate Case Expense	[J]	3738		3738	100		
Miscellaneous	[K]	106053		106053	50		
Subtotal-Sum of Line [Al thru Line [K]	[L]	305681		359681			
Payroll Taxes	[M]	8096		8096	50		
Property and Other Taxes	[N]				100		
Annual Depreciation and Amortization–From **Table III. B. Box** ①	[O]	145734			100		
Income Taxes-From **Table V, Line [F]**	[P]			5647	100		
Return --From **Table IV.E., Line[H]**	[Q]			2338604	100		
Subtotal-Sum of Line [L] thru Line [Q]	[R]	459511		607228			
Other Revenues	[S]				100		
Total Cost=Line [R] – Line [S]	[T]	459511		607228 ⑧		406842⑨	200385⑩
Alternative Allocation between Fixed and Variable [Note1]	[U]			⑧	67	406842⑨	200385⑩

⑦**Divide this amount by 8 and enter the result in Table IV. E., Line [B],** ⑧**To Table X. A., Line [D]** ⑨**To Table IX. B., Line [A]** ⑩**To Table IX. A., Line [A]**

SECTIC VI - UTILITY INCOME & EXPENSE INFORMATION – SEWER

A REVENUE REQUIREMENT

Please provide the following information regarding the cost to the utility of providing sewer utility service over your selected twelve month "test year.@

Note 1 - Instead of using the percentages listed, you may take the Total Cost and multiply it by 67% to determine the fixed portion and 33% for the variable portion.

TABLE VI. A.

Test Year [redacted] to [redacted]	Line	12 Month "test year" per books	Known and Measurable Changes	Revenue Requirement for next yr	% of ③ that is fixed (Note 1)	Fixed Expenses (Note1)	Variable Expenses (Note 1)
		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
Salaries and Wages	[A]	20,400		20,400	50		
Contract Labor	[B]	82,225		82,225	90		
Purchased Water	[C]	0		0	0		
Chemicals for Treatment	[D]	11,161		11,161	0		
Utilities (Electricity)	[E]	21,620		21,620	0		
Repairs/Maintenance/Supplies	[F]	6419		60,419	50		
Office Expenses	[G]	22,130		22,130	50		
Accounting & Legal Fees	[H]	28,108		28,108	100		
Insurance	[I]	3827		3,827	100		
Rate Case Expense	[J]	3738		3,738	100		
Miscellaneous	[K]	106,053		106,053	50		
Subtotal-Sum of Line [Al thru Line [K]	[L]	305,681		305,681 ⑦	[redacted]		
Payroll Taxes	[M]	8096		8096	50		
Property and Other Taxes	[N]				100		
Annual Depreciation and Amortization–From Table III. B. Box ①	[O]				100		
Income Taxes-From Table V, Line [F]	[P]	[redacted]	3178	3174	100		
Return –From Table IV.E., Line[H]	[Q]	[redacted]	131,636	131,635	100		
Subtotal-Sum of Line [L] thru Line [Q]	[R]	313,777	471,032	585,847	[redacted]		
Other Revenues	[S]			134,811	100		
Total Cost=Line [R] – Line [S]	[T]	313,777	157,255	471,032 ⑧	[redacted]	315,591 ⑨	155,441 ⑩
Alternative Allocation between Fixed and Variable [Note1]	[U]	313,777	157,255	471,032 ⑧	67	315,591 ⑨	155,441 ⑩

⑦Divide this amount by 8 and enter the result in Table IV. E., Line [B], ⑧To Table X. A., Line [D] ⑨To Table IX. B., Line [A] ⑩To Table IX. A., Line [A]