APPRAISAL OF WATERWORKS PROPERTY

<u>of</u>

THE BEND WATER, LIGHT AND POWER CO.

BEND, OREGON

as of

October 1, 1924.

STEVENS & KOON CONSULTING ENGINEERS

R. E. KOON MEM, AM. SOC C. E. MEM, AM. W. W. ASSN.

V-565

SPALDING BUILDING
PORTLAND, OREGON

Letter of Transmittal

January 24, 1925.

Honorable Mayor & Common Council,
Bend, Oregon.

Gentlemen:

Following your instructions given under date of August 15, 1924, we have made an appraisal of the waterworks properties of the Bend Water, Light and Power Co. and beg to submit our report herewith.

Officials of the Company have permitted the examination of such records and information as are available at their office and have given aid in field surveys whenever requested to do so. Until quite recently the Company has not kept detailed construction records and the history of many of the pipe lines is uncertain. We believe, however, that the data appearing in the report are sufficiently accurate to substantiate the appraisal made. Wherever practicable the office records of the Company have been checked by field inspections and measurements.

The figures given in the report should be considered as applying to the value of the property as of October 1, 1924.

Respectfully submitted,

STEVENS & KOON

By Hokaan



INDEX AND

SUMMARY OF APPRAISAL

As of October 1, 1924.

Item Number	Page	Description	Reproduction Cost	Depre- ciation	Present Value
1 2	17 19	Real Estate and Rights- of-Way Water Rights	\$ 3,000 12,000	\$ 400 0	\$ 2,600 12,000
3	21	Filters, Pumping Plant, etc.	83,779	3,351	80,428
4,	23	Emergency Pumping Plant	2,720	1,820	900
5	24	Gravity Supply to Filter	1,000	0	1,000
6	25	Reservoirs	5,792	5,398	394
7	28	Wood Pipe Lines	61,422	27,194	34,228
8	32	Arc Welded Steel Pipe	-		
Ü		Lines	2,799	80	2,719
9	33	Matheson Joint Steel	,		
Ū		Pipe Lines	12,547	1,346	11,201
1.0	34	Standard Weight Steel	."		
3.0		Pipe Lines	49 5	129	366
1 1	35	Casing or Boiler Tube			
<u>-⊬</u> -		Pipe Lines	17,568	2,129	15,439
12	37	Standard Weight Galv.	ŕ		
±~	•	Pipe Lines	5,985	1,676	4,309
13	38	Valves	3,326	549	2,777 ·
14	38	Valve Boxes	605	120	485
15	39	Hydrants	3,935	918	3,017
16	41	Paving over Mains and	•		
10	1-1	Services	13,860	2,310	11,550
17	42	Rock Excavation	21,368	1,600	19,768
18	43	Mains in Business Dist.	⁷⁵⁰	105	645
19	44	Services	25,668	8,214	17,454
20	4 5	Meters & Housings	3,027	151	2,876
21	46	Tools and Operating Equi		510	1,190 ✓
22	47	Maps and Plats	1,200	0	1,200 -
23	47	Stores and Supplies	*	*	*
24	48	Miscellaneous Structure	s 675	169	506 ÷
25	49	Engineering	14,996	2,653 ~	12,343
26	50	General Costs During	,	,	•
20	50	Construction	29,000	4.200	/ 24,800 ·
27	51	Business Development Co.	st. O	_, _.	´ O
21	O L	Dubinodb Doveropment of	· · · · · · · · · · · · · · · · · · ·		
		Totals	\$329,217	¥65,022	\$264 , 195
	52	Special Depreciation			<u>5,000</u>
		Value as of October 1,	1924,		\$259 ,19 5

^{*} Not included in inventory

GENERAL STATEMENT

This report is predicated upon facts obtained by a detailed examination of the water works property of the Bend Water, Light and Power Co. made between August 15 and November 15, 1924. Quantities and values are all as of October 1, 1924.

History of the Property

The City of Bend was incorporated in 1905. In the same year the building of a waterworks system was undertaken. It has always been privately owned, although the actual personnel of ownership has changed several times. Deschutes River has always been used as the source of water supply.

According to the most authentic information to be had,* the system as built in 1905 consisted of a pumping station, a small wooden water tower located in Block A, Bend, and approximately 9000 feet of distributing pipes. By the end of the year 1911 the distribution system had grown to a little more than 17,000 feet. There were about 130 services at this time. Subsequent to 1912 the Company has made yearly reports to Oregon State Commissions. While these reports probably are not closely accurate, they do indicate the rate of growth of the distribution system. Figures from such reports are given in Table I.

^{*} From Survey made by R. B. Gould under date August 31, 1911.

TABLE I

		•	100				
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	· B	END OR	ECON 🗀	WATERWO)RKS		

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Date of Feet of of of Fire
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See Below

1905 ** pipe added to the Services Services Hydrants

Aug. 45 1911 1911

*Dec.51, 1916: 4 12 15 95900 42 5 7 867

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 1919
 4
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 1921
 4
 124900
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 1922
 4
 142700
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n 1923 4 162300 1749 62

Oct.31, 1924 5 180316# 2139 67

Sources of Information

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Replacement

- 1. Report of Robert B. Gould
- 2. Appraisal by Miller & McMeen
- 3. Report to Oregon Railroad Commission 4. Report to Oregon Public Service Commission

5. Appraisal by Stevens & Koon
Large growth due to purchase of pipe systems constructed about 1911 and heretofore owned by other individuals or companies.

Includes 600 ft. of 8-inch pipe which is permanently out of use at Canal Headworks.

It is not to be inferred from Table I that the only yearly additions of new pipe are indicated by the increase in the total pipe in the system from year to year. Replacements of worn out or inadequate pipes were made; sometimes the old pipe was relaid and at other times it was discarded as unfit for further use, so that the total amount of new pipe added to the system from year to year was somewhat greater than the difference in quantities shown by the yearly reports.

Deschutes River near the site of the present pumping plant. In 1916 a 14-inch wooden gravity supply main was put into service, taking water from the Central Oregon Canal at a point about two miles south of the City. An emergency pumping station was also built on Deschutes River near the Canal Intake. The gravity supply was maintained until early in 1924 when the present filtration and pumping plant was placed in service.

Until about 1919 the majority of the pipes 4-inches in diameter and larger were of wood. In 1919 the City began paving and the Company replaced a considerable part of their larger wooden mains with steel pipe. With one or two exceptions new wood pipes have not been laid since that date.

Description of Present System

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Deschutes River furnishes the water now supplied to the City of Bend. It is taken from the forebay of the Power

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Plant and flows by gravity through mixing tanks where coagulating chemicals are added, and through a battery of filters of the pressure type to a clear well below high service pumps. From the clear well low service pumps deliver the water to aerating tanks, where it is subjected to the action of air rising in small bubbles from the bettom of the tank. Air is supplied by a blower located in filter building. Water is taken from the aerating tanks and pumped directly into the City distribution system.

Pressure in the system is maintained by pumps only. No reservoir is used for pressure and supply regulation.

The filters are in 10 units. They consist of metal tanks 8 feet in diameter and 20 feet long, each provided with a suitable bed of gravel and sand, necessary piping, valves and regulators. The filtration plant has a nominal capacity of 5,000,000 gallons per day. A diagrammatic sketch and photographs of the plant appear in the Appendix of this report (Exhibit No. 4). An emergency low service pump is maintained to supply water directly from the River to the filters in case water should not be available from the power plant forebay. Two small pumps which were in general service prior to 1916 are still maintained. An emergency supply under lower pressure might also be obtained from the Canal Intake which served the gravity supply in use from 1916 to 1924.

The distribution system (including supply pipes both in and out of service) consists of about 34 miles of

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pipe and an inadequate number of valves and hydrants.*

Pipe materials in use are: wire wound wood, arc welded steel, Matheson Joint Steel, standard black and galvanized steel, well casing and boiler tubes. Table II shows the proportion of each kind of pipe used.

	komital 2 Slag	TAB	LE II	in x		ercents of Whol	
er.	DISTRIBUT AS	WING QUANTI ION AND SUP TO KIND OF BEND, OREGO	PLY SYST MATERIA	PIPE IN EM. CLAS LS USED	SSIFIED	6.6 .4 7.9	
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•	<u>Material</u>	いた (1000年)	In Feet		In Miles	<u>of</u>	Whole
Wi:	re Wound Woo	d 2 3 3 4 5 4 5 4 5 4 5 4 5 4 5 6 6 6 6 6 6 6 6	100,858	.95 31,76	19.10	1 20.1 43.4	55.9
Ar	c Welded Ste	el	1,375		.26		0.8
** Ma	theson Joint	Steel	10,022	3	1.90	- 11	5.6
Sta	andard Black	Steel	718		.14	•	0.4
Car	sing and Boi	ler Tubes	38,249		7.25	•	21.2
Sta	andard Galva Steel	nized	29,094		5.50	•	16.1
	Totals		180,316	,	34.15	* .	100.0

^{*} For details see Exhibit No. 2 in Appendix.

^{**} Probably includes a small amount of casing.

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SHOWING QUANTITIES OF PIPE IN

DISTRIBUTION AND SUPPLY SYSTEM, CLASSIFIED

AS TO SIZE OF PIPE USED

BEND, OREGON, WATERWORKS

AS OF OCTOBER 1, 1924.

A Reaperface is solve

Mominal in tricor the Total Quantity is the Recentage In Miles In Feet Pipe Size one feet of setable pipe months of in the t 11,854 2.24 12-inch e de to e prepart/85 or de elebrate .15 juin est 14,144 2.68 8-inch 6-inch a toler mile 21, 200 gives in 4.03 13.16 69,496 4-inch 83-inchies at 15,00 - 01,440 to Ci / 21-27 Transcription (1. 18 and 1. 18 and 1 6.43 33,993 2-inch 336 1g-inch .03 151 1-1/4-inch . 2.8 .96 5,049 1-inch 3.76 11.0 19,885 3/4-inoh1,983 1/2-inch 34.15 100.0 Totals 180,316

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During the past decade the growth of Bend has been very rapid. Development of the waterworks distributing system has not kept pace with growth in population, particularly as regards sizes of pipes to give adequate domestic and fire protection service. In proportion to

^{*} These items include some pipes that are out of service or of no value to the service, being 6005 feet of 14-inch wood pipe (see Line No. 129 on Exhibit No. 2) from the west end of Roosevelt St. southerly to old Canal Intake and 600 ft. of 8-inch wood pipe (not listed on Exhibit No. 2) from Deschutes River to Canal Intake which has been abandoned. If these pipes were eliminated from Table III, the percentage of 14-inch pipe would be 3.4 and that of 8-inch would be 7.8. All the percentages given for other sizes would be slightly increased.

population and improved property the City was better served in 1914 than in 1924. The average size of pipes in the distributing system is practically the same in 1924 as it was in 1914, whereas the population served is now four or five times that served in 1914.

A comparison is shown by Table IV. For purpose of this comparison the 6005 feet of 14-inch pipe and the 600 feet of 8-inch pipe mentioned in the note under Table III have in the preparation of Table IV been eliminated from the total mileage as given in Table III. The lengths and sizes of pipe serving the City in 1914 are taken from the Company's report to Oregon Railroad Commission as of June 30, 1915, and increased by the approximate amount of the pipe in the independent systems then operated by Steidl & Tweet and Henry Linster. The comparisons thus obtained are quite accurate.

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TABLE IV

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SHOWING A COMPARISON OF AVERAGE SIZE OF PIPES IN DISTRIBUTION SYSTEM IN 1914 AND 1924 BEND, OREGON, WATERWORKS

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Approx.	•	* John J. 14	Weighted	Totals
Nominal: Area of		Property of the second of the	Pipe	Pipe
Size of: Pipe in	:Miles Pipe	:Miles Pipe:	Miles x Area	Miles x Area
Pipe : Sq. in.	: in 1914	<u>in 1924</u> :		in 1924
集新的 新 ··································	:	:		in v
153.94	: -	* .33 :	-	50.80
12": 113.10	: 9 <u>1</u> 196	. 15 :	<u> </u>	16.97
8" : 50.26	: .72	*3,35, :	36.19	168.37
: 6" : 28.27 ·	: 0.2.61 13	4.03	73.78	113.93
4" : 12.57	6.84	: 13.16 :	85, 98	165.42
# 37.07	: 23	.27	1.62	1 91
2" : 3.14 :		6.43	5.65	20.19
367 1.767	. 24	.06 :	.42	.11
1.227		.03 :	.07	•04
1" : .785;	. 32	. 96	.25	.75
3/4": .442 :	1.10	3.76:	.49	1.66
161/2": .196:		.38	.13	.07
•		:		
ets Totals	14.58	32.91	204.58	540.22

Average Area of Pipes = 14.02 sq. ins. in 1914 and 16.72 sq. ins. in 1924.

Average Areas correspond to average diameters of 4-1/4 ins. in 1914 and 4-5/8 ins. in 1924.

It may be of interest to compare the average sizes of distribution system pipes used in Bend and a few other cities for which figures are available. Table V lists these comparisons.

Dr late

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^{***}The \$100 feet (.78 mile) of 14-inch pipe (Line No. 130, Exhibit No. 2) on Sisemore St. and extending south to Robsevelt St. is here considered only the equal of an 8-inch pipe and is added to the mileage shown for this size topips.

TABLE V

SHOWING THE COMPARISON OF AVERAGE SIZE OF PIPES IN WATERWORKS DISTRIBUTION SYSTEMS

City		Average Diameter of Pipe in Inches	Comparia Average Bend	Capacity.
Portland Boise, Idaho	300,000 25,000	8½ 6-1/16	to secere	the perma- .38 .73
Yakima, Wash. Corvallis. Ore.	19,000 8.000	5-15/16 5-5/8	1.	. 65 . 47
The Dalles, Ore. Reymond, Wash.	att 4,500 : 3	5-5/8 7-3/8 4-5/8	1. c: intlo 2 . 1.	. 54 . t.b
[** [*	e cities li	sted in Table	V have ave	rage
systems sizes less than t	hose which	would conform	strictly t	to the
recommendations o				
This Tabl				

obsolescense should apply to the whole distribution system at Bend. This matter will be further discussed later in the report. these 🔧

GENERAL CONDITIONS AFFECTING THE **Сов**рану

DEVELOPMENT OF WATERWORKS IN BEND the limit

gene Until within the last few years Deschutes River rest been quite satisfactory as a source of water supply. Printe years when developments for lumbering and irrigation enterprises have caused the water to become unsatisfactory ior general city purposes, some consideration has been given no the securing of a water supply from a source other than to both the However, the large expense involved and diffi-

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culties in securing water which had already been appropriated for other purposes appears to have discouraged the Company in securing a supply other than from the river. The extensive improvements recently made for purpose of filtering and treating the river water seem to indicate a definitely settled policy on the part of the Company to secure the permanent supply for the City from this source.

Prior to about 1915 when construction of the mills quite definitely attracted the center of population southward from the general business section, the distribution systems (there were three or four at this time) were extended as there was demand for service and without any definite knowledge that permanent improvement by building large mains as justified. Exploitation of real estate figured largely in the development of the early systems and even today water 1s, being carried into new and undeveloped districts for the sole purpose of stimulating the sale of real estate. While Inese pipe extensions are not originally owned by the Water Company they are usually absorbed later and serve to extend he limits of poorly constructed and undersized pipe lines. in general such pipe lines as have been built in the protion of real estate have been constructed as cheaply as possible and without regard for much else than to be able show the prospective purchaser that city water was available. Under these conditions the appraiser has great difficulty in maintaining a judgment of value that will be fair to both the owner and the possible purchaser of the water

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Existence of rock near the surface of the ground in all parts of the city has been the greatest cause of failure of the builders of pipe lines to observe rules of good construction. The lava rock which underlies the city is very costly to excavate, particularly in trenches. In general the depth of bury over the pipe lines is considerably shallower than is demanded for good construction, particularly in a plimate that is sometimes extremely cold. The fair estimating of quantity and unit value to be used for rock removed in distribution system construction offers considerable chance

Fundamental Assumptions on which Appraisal

In recent years there has been much discussion relatives to the assumptions which should be accepted as proper in arriving at a conclusion as to the fair value of an estimation utility. Court decisions have been rendered touchtreaden, these points but they have not been in strict accord the each other. The appraiser is thus left to form many interpretations without any firmly established preceding of appraisers that has come about during and since the period of appraisers that has come about during and immediately established war has been in the method of determining a directed to be placed upon the materials, labor and

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1 (10) 1 (10) equipment entering into the physical property. It is manifestly impossible to reproduce a property in the past or in the immediate present. All assumptions as to reproduction costs must be applied to some future time. Formerly it was customary in making valuations to use as base prices those prices which were a fair average of the prices prevailing during the immediately foregoing two- or five-year period.

Eventually, when there has passed a considerable period of years unmarked by events which disrupt the commercial world, temay be that thus averaging prices for several years will again be a rational way to fix unit prices for appraisal purposes.

without further explanation it may be stated that this appraisal is made with the following as fundamental assumptions:

and fair to use and they form the bases of cost of repro-

diction calculations in this report.

- 1. That the property of a public utility has a value to the public equal to what it would cost the public to restrained the property plus a fair and reasonable sum estimated to represent the commercial value of the business as a going the commercial value of the public to represent the commercial value of the business as a going the commercial value of the business as a going the commercial value of the business as a going the commercial value.
- That reproduction cost should take into considerdiscuss reproduction cost should take into considerlight elements of cost that would be met by the public
 consider organization in acquiring an equivalent property,
 conditions as they are and as though no such utility

existed at the present time.

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3. That the rational basis for estimating values is prices as they exist at the time of appraisal as nearly as may be determined, since it is impossible accurately to forecast prices as they may be at some future time when a transfer of ownership of the property may take place.

or the second of the

4. That the straight line method of estimating dition physical depreciation is as accurate as any other method when applied to a property where assumptions as to useful life are necessarily somewhat arbitrary and particularly where the element of obsolescence is always so threatening as it is in a community which has developed as rapidly as Bend.

The so called straight line method of calculating depreciation assumes that the total depreciation bears the services same proportional relation to value new that the age of the unit bears to its estimated life.

5. That obsolescence or insufficiency to provide adeinderstant that the control of a unit
indicate service is reason for special depreciation of a unit
indicate a whole property.

Adval Cost of Utility not Affecting Present Value

It is not the intention in these pages which precede walls statements of appraised value, to enter upon an intelligible discussion of the theory of appraisals in general, therefore try to make plain those matters in this report the bedifficult to grasp without some explanation.

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When first considered it may seem unfair to the Utility Company or to the Public, depending upon the viewpoint of the critic, that actual cost of the property to the owners is not necessarily the present reproduction value as herein determined. Such a feeling may come about on consideration of an item on which an exceptionally heavy expense has been Thorne by the Utility, due to construction under adverse conditions, mistaken judgment, or faulty plans, as, for instance,, construction work the Company was required to perform during the prevalence of the extreme high prices in war years. On incomther hand, it may seem unjust to appreciate the structural value of a unit by reason of certain exterior conditions that have come about without direct expense to the usingly Company, as, for example, paving over mains and services.

In considering this phase of the problem the second of the fundamental assumptions named above should be well inderstood, since such an assumption is recognized by experts ditiant he courts as the proper basis for fixing the present latic.

The past cost of a unit may be of interest to the the the the conditions as the details of such the shed light upon the ease or difficulty of consider conditions that would be met in the hyponice eproduction of the unit as is required by logical the principles outlined in the assumptions the principles outlined in the assumptions the principles of the principles of historical cost may

develop in consideration of the probable cost of excavation for water mains or structures where it is impractical to make a detailed analysis of the varying soil conditions.

The only material use made of data relative to construction as shown by the Company's records, is in the matter of the building of the filtration plant as it exists today. This plant was built so recently that actual construction best is believed to represent the fairest estimate of the probable cost of reproduction new. The Company's records of cost of the filter plant have been studied and to a great strent are allowed in this appraisal as the reproduction for the further use has been made of the Company's records of cost other than to serve as a check on a few individual items.

Depreciation

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Physical depreciation of a property begins when the property is exposed to wearing elements or is put into use. In addition to physical depreciation there may also occur a depreciation due to the fact that a unit under consideration may have ceased to be useful on account of its insufficiency or render the service required. In more unusual instances, Dividually in the case of machinery, such depreciation may not to a unit while it is functioning properly, performing the service required, but so inefficiently as compared to a more suitable machine as to make its longer continuance as unit of the plant a source of waste in the cost of oper-

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\ . . . : mobsolescence" which in its strictest sense is usually only partial as referred to the worth of materials, since there may be a considerable salvage value or indeed under other circumstances and conditions the unit may again become useful recommendation in such way as to restore its true physical value.

Details of Appraisal terence its an white opens on bobility

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Having outlined the fundamental theories which are applied in this appraisal, the present value of the waterworks property of The Bend Water, Light & Power Co. is found to be as shown in detail on the following pages.

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ITEM 2

Besse WATER RIGHTS

No water rights on Deschutes River have yet been adjudicated by the State. Until completion of such adjudication it can only be assumed that the water right claims of The Bend Water, Light & Power Co. are valid and any valuation made must be construed as subject to the effect of the final adjudications and recognition of the Company's right to the use of sufficient water for the domestic supply of the City of Bend.

The final award may be for a greater or less amount than 10 cubic feet per second, but from evidence at hand it appears that such an amount can reasonably be claimed as a right established by filings, actual use, and probable early future requirements of the City.

The fair market value of such a water right is best evidenced by the cost of purchasing a like quantity of water, having title equal or superior in priority from owners whose status of rights is as well established as is that of this Company. Information from sources believed to be reliable indicates that bona fide offers to sell such quantities of water have been made from time to time and that actual sales and transfers have been made in this vicinity at prices ranging from \$800 to \$1600 per second-foot. value of \$1200 per second-foot has therefore been placed on

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10 second-feet of water from Deschutes River at or above Bend, having a priority of about 1905.

Cost of Reproduction \$12,000
Depreciation None
Present Value Item No. 2 12,000

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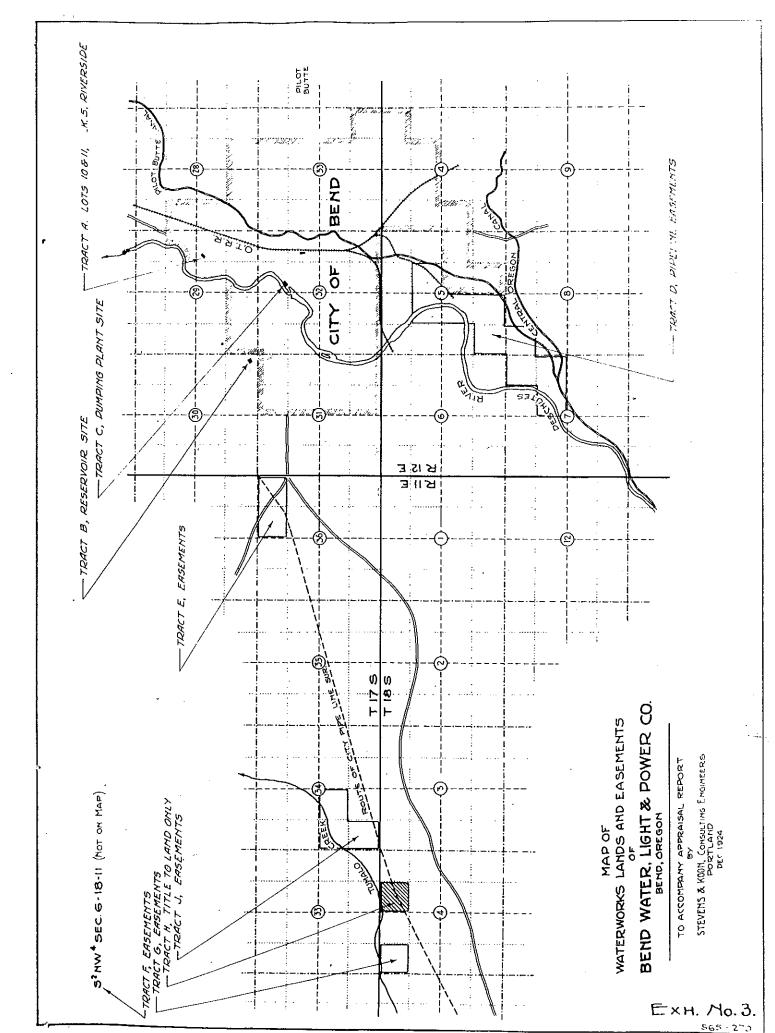
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