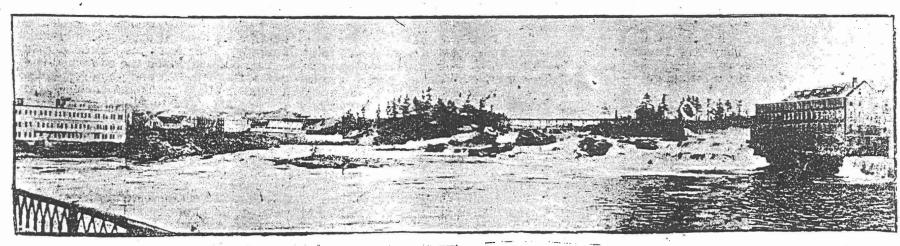
LEWISTON JOURNAL

UBURN LEWISTON, MAINE, APRIL 14, 1920.

DEVOTED TO THE WELFARE OF THE CITY OF AUBURN.

Auburn, Maine--- A City with an Appreciation of Utility and Beauty and a Striving for High Ideals

The Full Text of the New City Plan for Auburn—Devoted to Industrial, Social and Community Progress—The Photographs and General Plan as Prepared for the City of Auburn by Myron H. West of the American Park Builders, Chicago, Illinois, 1919.



THE FALLS OF THE ANDROSCOGGIN AT AUBURN. Site of the Proposed Civic Center Shown at Left.

ent period, that demanded this city plan.

ories in which long before the Civil War Auburn there is beauty of life as well as money. vas making shoes for the world with a reputation cities retrograde. or workmanship and solid value that has never n the world.

o railroading early and was quickly linked up as to work in. The maintenance of social ants amid trees and thru which happy children

E ARE publishing the details of the proposed City Plan for Auburn, lest otherwise shores of the river above and below the "Falls," ties for the cultivation of the senses are deit might be buried among the documents and finally built dams, dug canals for dissemination and in the water-power along the millisite and began provided and the eye must be pleased with beauty.

Me hope that its publication may give the people the development of the city of Lewiston which No man will labor for a community or live in it.

Manburn a better understanding of what, under lies accoss the river from Auburn and which so far in the future unless it pleases him. He will deaccount may give the people the development of the city of Lewiston which no man will labor for a community or live in it.

Auburn had a distinctly pastoral beginning. It
was settled by farmers, who discovered the richone in Auburn and Lewiston looks to as the dycivic centres, community comforts for children as
a soft the land; and who were attracted by the was settled by farmers, who discovered the richless of the land; and who were attracted by the
less of the land; and who were attracted by the
location and the endurance; of fixity, of usefulness, of perpetuity, the coming city. Not a work-shop alone; but a
rapportunities of the great river that flows by its
rather notable in a way. In the various Federal home, is in the mind of the Folk. The cornershores. They built by the foot of the cataract of
summaries of water-power developments, the Anstone of democracy is in education, but even edudroscoggin. The elevation of the land was
rarked; the land was rich and early; the valley
has the finest of storage development at its headof the river was in the heart of a fine country. The
orests were heavy and valuable. The nearness to
fluence. Millions have been spent to make its
flow steady. All along its many miles from New streets. They cannot develop the city of Anburn
It has always been a distinctly American town
Hampshire to the Kennebec, it is made to do its you want, thru relayation in pool-rooms and chean ther centres was valuable.

It has always been a distinctly American town and a centre of farming interests. Its faults are hose of such a beginning and its virtue come from power plants. A mill along the Androscoggin power plants. A mill along the Androscoggin power whose of such a beginning and its virtue come from power plants. A mill along the Androscoggin power whose what "low"-water means. Vast powhinking; but we always had a controversial attitude and a way of settling matters without much plan on the streets and in chance gatherings of makes cotton cloth, woolens, paper, shoes, many think of, when we discuss it? We always idealize to could generally unite on matters pertaining to tay on welfare and put over its purposes. In this swift falling stream, with steady volume, make ception of its industrial supremacy and yield and community spirit was required, it could be community spirit was required. The city of Amburn Street Streets. They cannot can be ife it became also a pioneer shoe-manufacturing and schools, have made it a desirable city, not roads; as we discuss park projects we feel that The factory system was born here of itself. wholly utilitarian, but something more—a city there is something more. And this "something t has thus evolved its citizenship as have few with a love of beauty and a striving for ideals.

ess backed by the good-will of the citizenship. It velopes when industrial progress has come. But plans and his attitude towards the future, as developed aspiration and ideal, within a re- unless social progress evolves, industrial progress wavers, falters and ceases. This is the history of We have said that the shoe-manufacturing inmany communities. In their industrial success, sive, of large vision and very practical. lustry was born here. From scattered little "tenthey have become sordid and squalid. They have they have become sordid and squalid. If you just look at it and sniff and ooters" all over the country-side, where men and been "factories" in which money is made. Once romen made shoes by hand, there developed fac- made, its possessors remove to communities where

Cities everywhere are perceiving this. The farbeen hazarded. Today the same initiative, in sighted cities began to remedy it, some years ago. ome cases transmitted from father to son and City planning as a science was developed in re-extending thru three generations, has made Au- sponse to the demand for an answer to the new min a pioneer in specialities in shoe-making. For vision. They have kept before their eyes certain size was planned just as Auburn is planning nstance, here was the beginning in a large way of ideals. They have made them practical and years ahead and on dreams and drawings. Gerhe manufacture of the canvas shoe and here is more; they have made them even pay. They have many realized these changes. You would find in aid to be the leading centre of their manufacture called in science, not alone for the advancement of any town in Bavaria, or Saxony, towns that were Being in a 1ch valley along a great river which is a mistake and without which commercial pros-nals; in which bands played each afternoon in vas early developed for its water power, it turned perity is worthless. Cities are to live in; as well beautiful public squares surrounded by restaur-

ith a love of beauty and a striving for ideals.

The business faculty is not the only quality to bring to a scientific standard. And this is why ther cities. Very little has been brought here, ransplanted from other communities. Thus the The business faculty is not the only quality to bring to a scientific standard. And this is why itizenship of Auburn is homogenous; New Eng- needed in a well-rounded community. While it is Auburn has spent its money for a city plan and and; idealistic and practical; progressive and essential, it can never be permanent, unless other why it should be brought to the attention of every elf-reliant. Auburn is absolutly convinced that factors of a city's life are considered. Social citizen that he may devote thought to it; may unto commercial prosperity can have stability, un- progress starts with industrial progress. It de- derstand it and may give it a fair show in his own

This plan of Auburn will be found comprehen-

If you just look at it and sniff and say that it is a dream you hardly fill the bill as a citizen. It is a dream in a way; but it is not a nightmare— Such like belching chimneys, city slums, dirty streets, factories pushing into happy home limits and ne far- making lives miserable; impractical railway stations; poor transit arrangements.

With all of its faults, Prussianism knew how to build towns and cities. Every German city of any industrial progress but also for human content- models of cleanliness; in which the factories were ment and human growth, without which all life in one section connected with the railway termitheir knitting or their sewing. It was no dream; pear. We should take seriously every year, some conception of citizenship. That conception is imand those towns and cities are still doing business, element of it to put into reality. In this plan possible under poor surroundings. A virtuous in the same way, and this, above all things else, is boulevards should come; civic buildings should be and consecrated democracy comes only from clean

hange—but human aspirations do change. Amercan cities are looking ahead to conditions of sweeter life. The city that gives it first will be autiful; in short—read this plan and see for some spaces. Mean housing of workers is poor economy. We should not concern the streets with this plan. tinue to go sprawling into quiet streets with this plan.
belching chimneys and expect the people who Delching chimneys and expect the people who have lived there to rest content with the new environment. The railroad station may be artistic.

The factory may be attractive inside and out. No city can be happy for long when a large proportion of its citizens live on mean streets. Auburn cannot expect to attract residents when it flaunts in called upon to give more and more for the city.

The people of Auburn will be given in our day and by those who come after us. The people of Auburn will be called upon to give more and more for the city.

The people of Auburn will be given in our day and by those who come after us. The people of Auburn will be called upon to give more and more for the city.

The people who are everopment; its wise and sensible structure into a beautiful city. As its planners have said: "None offers greater possibilities. It rests with the people of Auburn to build."

You will find in this plan a remarkable application of economies, in the shortening of streets, the real possible structure into a beautiful city. As its planners have said: "None offers greater possibilities. It rests with the people of Auburn to build."

You will find in this plan a remarkable application of economies, in the shortening of streets, the people of Auburn will be a people o not expect to attract residents when it flaunts in called upon to give more and more for the city. the eyes of every automobilist such a water-front as exists below North Bridge. No city can give plan has for a city that takes it seriously and into its people what they have a right to enjoy, withtends to live up to it. No one expects all of this the conversion of revenue, the reducing of grades, out a public park of a kind, worthy of the name. A beautiful city; full of lovely homes; blessed we expect in our day: but not larger than flood districts; the development of transit by with every natural advantage; with hills that look away to all of the glories of the Lord and yet not a community centre of any kind; no means of sata community centre of any kind; no means of sat-would be prepared for growth along practical isfving the gregarious needs of mankind! It is lines. It would be alive to what beauty, art,

must be cultivated and planned like a formal gar-

The plan of Auburn meets this requirement. It is art and science combined. It considers not only beauty; but also economy, far-seeing permanence of improvement; building for all time. Had after industrial progress had been established and Auburn been laid out on a city plan by an engimaintained thru a term of years.

neer seventy years go, it would have saved mil
The people of Auburn should lions of dollars. Its sewers would not be found this plan of Auburn perfunctorily or apatheti-running up hill—or trying to. They would have cially. It should mean something to them. It gone around hills naturally instead of blasting should set a standard of aspiration. It should

roing to preserve the sanity of Germany against grouped; public parks should be opened up. If cities. The crying need of the nation is a better adicalism and make for a reconstruction in bet- we will take this plan seriously, factories will be class of municipalities. These are the units. segregated; we shall begin to improve our river When every home is virtuous and happy, the munange—but human aspirations do change. Amerhovels will be cleaned out and the places made When the municipalities are all right, the sate is

we expect in our day; but not larger than we expect our children to see. Such a city would discourage breeding-spots of crime and disease. It cleanliness opportunities for rational amusements, All of these things require intelligent planning! desirable homes and comfortable surroundings, They cannot be done by chance. They cannot be left to themselves to happen. They can never grow right any more than weeds grow right. It tend. It would have its forum and its public education. tend. It would have its forum and its public educational centres of civic uplift. It would care for the soul of a city as well as for its body. It would educate the people insensibly into law, order, fru-

The people of Auburn should not look upon

development; its wise and sensible structure into

reclamation of waste land now occupied as thoro-One need not enter on the outlook that such a fare; the saving of care of streets, the suggestion means of additional bridges, estimates of revenue therefrom, suggestions as to the establishment of a factory district and how it would pay-all of these and many more all laid before you in the details of the plan are worth your study.

In short, this purports to be a practical plan to spell economy everywhere. We are publishing it because we think it ought to be given the widest

publicity. The least you can do is read it.

This plan, of which the subjoined is a complete reproduction in text and photograph, lacking only a number of the maps and sketches, too intricate and too extended to submit to reproduction was prepared for Auburn by Myron H. West of Chicago, Ill., of the American Park Builders of that city. Mr. West spent months in Auburn in its preparation.

The publication of this issue was inspired by the Auburn Chamber of Commerce whose directors and whose secretary have believed in the then them. The city plan would have considered be brought out constantly and referred to, in all of soil and ledge instead of laying a city out on a drawing board, as it was. This new city plan is not intended to be revolutionary—not a thing to build to, now; but to grow to soon. Under its publicity and who have worked ungestionable to the brought out constantly and referred to, in all of gently to this end. Certain of the prominent citizens have also given it their hearty support; the manufacturers and merchants have responded corbuild to, now; but to grow to soon. Under its publicity and who have worked ungestionable to this end. Certain of the prominent citizens have also given it their hearty support; the manufacturers and merchants have responded corbuild to, now; but to grow to soon. Under its publicity and who have worked ungestionable to this end. Certain of the prominent citizens have also given it their hearty support; the manufacturers and merchants have responded corduially and not a dissenting voice has been raised in regard to its wider circulation in this form. To all these kind friends we return our thanks.

The Full Text of the City Plan For Auburn, Maine--By Myron H. West, American Park Builders, Chicago, Illinois.

To the City Plan Commission and out may be expected to produce a finake them result in producing more City Council of Auburn, Maine. Workable, efficient machine for healthful conditions as well as moral

In conformity with our contract with the city of Auburn dated October 1st, 1918, we are hereby submitting the findings of a survey together with recommendations and plans forming a comprehensive program for the physical improvement and

extension of your city.

Our motive has been not to furnish exact working details, for these would need be changed or modified as time goes on and therefore would entail unnecessary labor and expense. The purpose has rather been to set forth a comprehensive policy which may serve to guide in a general way, the upbuilding of your city. So long as the main features are adhered to and worked for constantly, the detail may safely be left to the city's engineering depart-

The main object of a city plan is to give a vision of what the city may hope to attain and to furnish a general policy on which the citizens may agree. Once committed to such a policy, the efforts of successive city governments and of the various civic organizations may gain added consequence, the extravagance of energy and money caused so generally by working to cross purposes will be lessened and a better city built at reduced cost, will result.

MYRON HOWARD WEST. SCOPE OF CITY PLANNING

A city plan may be defined as a program of city improvement and development. Following this definition, a city plan becomes a much larger and more important undertaking than that which the professional city planner may be competent or may be expected to make complete and definite recommendations upon. Broadly speaking, the city plan has to do with the upbuilding of the city physically, economically, socially and ethically.

The city plan as it is commonly known is but a series of recommendations illustrated with drawings showing the manner in which the city may be improved and developed It is a design for the human use. Therein industry and trade may be carried on economically; homes may be arranged conveniently and attractively; people may go to and fro safely and without undue loss of time. Therein will be placed in suitable relationship the standard elements demanded in the modern city, parks, schools, public buildings, railroads, street car lines and the like, all so placed that they may function as a whole to the best

In the larger meaning, the city plan includes the program by which this tool of civilization may not only be built but may be used to its fullest. The city planner may incorporate in his recommendations, ways of producing better housing conditions but these suggestions will be of little avail unless a well defined policy is actually carried out which will result in not only causing these better housing conditions to exist but to

healthful conditions as well as moral and social improvement among city

The city planner may propose ways and means for a more satisfactory installation of factories and railroads but the city plan of the broader sense should include a policy which would provide for the securing of new industries and the aiding of established industries so that the city may be built up and kept strong in the industrial field.

The city which invests in the services of a city planner should organize to put his recommendations into force for the ultimate and far reaching results that may

LOCAL CONDITIONS

In surveying the city of Auburn for the purpose of preparing the following report, a number of outstanding conditions are noteworthy. The first is the comparatively slow grow

gone. Settled in 1797 and incorporated as a village in 1842, it had become well established when the sites of many populous centers of to-day were but wilderness. The aver-age growth between 1900 and 1910 was 16 per cent and between 1910 and 1917 the government estimate is but 1.5 per cent per annum. The average growth of American cities is approximatey 2 per cent per annum. Compared with this, however, many smaller industrial cities, not including those of extreme rapid growth brought about through war conditions, have doubled their population each ten years.

The following curve shows the past and estimated future growth of Auburn compared with some other smaller cities of the country. This curve for Auburn is based upon a 15.6 per cent increase per decade, and at this rate of growth, it would take the city until the year 2020 to reach a population of 75,000, which the plan provides. Many cities have







accomplished this growth in thirty years and there is reason to assume that Auburn's rate of growth may be materially increased.

The reasons for this comparatively slow growth in the case of Auburn are of course largely problematical. Among other contributing causes, however, the following may be important, namely, the comparatively high cost of living, the labor situation and the limited and high cost of transportation.

As to the higher cost of living, Auburn suffers together with all New England cities, due to the fact that they are remote from the great food producing centers of the country. Industrial development has to a considerable extent followed agricultural development. It is a well known fact that since the Civil War, agriculture in New England has declined in comparison with that of other parts of the country. The turning point in this regard, however, seems to have been reached. New England's agriculture bids fair to come back to its own. This may be expected to have a marked effect in accelerating the growth of New England cities, for a city must depend largely upon its tributary country and if this country is prosperous and develops with rapidity, the same conditions are apt to be reflected in the city. It is therefore pertinent to the city planning program, that every aid be given to the development of the surrounding farming community, to which the city must look for its first requirement-food.

As to the labor situation, while Auburn is much nearer the great New York market than many of the faster growing cities of the west, it is out of the beaten labor path. Labor in spreading throughout the country, does not naturally flow through Auburn. In many respects this is a fortunate condition but in other respects it has possibly had its effect in keeping down the industrial growth of the city. Auburn depends largely upon native labor, and upon that secured from nearby Canadian territory. To a considerable extent. Auburn's labor belongs to the home owning class, which inevitably produces a better citizenship. Labors troubles in the past have been few. The situation on the whole has made for stability and for a good quality of output but not for rapidity of expansion. If the city is to take on new industries or greatly increase its present ones, it must prepare for more working men.

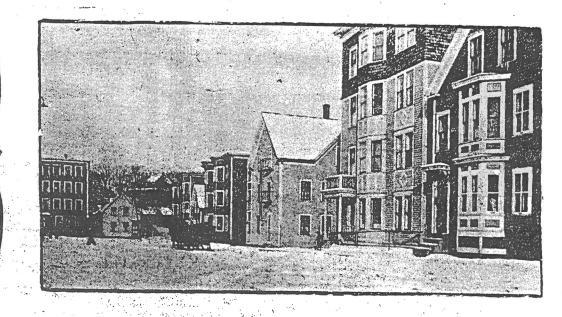
To make the city more attractive to laborers there must be a number of requisites besides employment. Chief among these are good housing. good schools, parks, playgrounds and other suitable attractions, the opportunities to own homes and again the opportunity to procure the necessities of life, at as low a cost as pos-

sible in other cities.

In the matter of transportation, no city without adequate and low cost ternsportation with other cities and with the outside world can long meet modern day competition. Auburn is More too well off in this respect. the long severe winters make the cost and operation of railroads high. Whatever may be done to cure this defect by procuring better connections, schedules and rates will have a marked effect upon the city's industrial growth.

Auburn's distance from the coal fields handicaps her in no small degree but to more than offset this, is the possibility she has in securing abundant and low price hydro electric power. In fact, the development of this power in the Auburn district may be looked to in time to place Auburn and Lewiston in a most enviable position among New England cities. Auburn's future seems to lie in developing those industries using raw materials to be secured close at hand, made into products representing high value in relation to tonnage and in manufacturing these products with native power.

Auburn seems to have entirely neglected to develop a possible source of income, which many cities less fortunately endowed, have capitalized to their extreme advantage, namely the resort business. Auburn's location in this regard is rarely surpassed. The city lies in a



TENEMENT DISTRICT, NEW AUBURN.

and on account of its geographical position becomes a gateway through which the great numbers of tourists from the populous sections farther south could be induced to pass to and from the wonderful playgrounds of the north woods. Indeed, a large proportion of these tourists could be induced to make the environs of Auburn their playground. Good roads leading into and through the city, modern hotels, a cottage colony on the lakes, a municipal golf course and provisions for summer and winter sports, together with the natural attractions of the country around, might well make for the city's added prosperity. The growing popularity of winter sports places the cities of Maine in a position to secure a two season business, which many other resort sections cannot hope for.

These recommendations deal entirely with the development of Auburn. This city is however, strictly speaking, but a part of a community in which the city of Lewiston figures even more prominently. The interests of the two cities are so intimately interwoven that any benefit or injury to one immediately reflects upon the other. This plan can never hope to attain its fullest importance until it is coordinated with a similar plan for

Lewiston.

THE STREET PLAN

First of all in importance to any city plan is a general policy of street extension. City planning for established cities is based on the assumption that the city in question will grow larger. If this takes place, new streets must be built. Once in place, these streets become the thoroughfares over which the business of the city must be carried on for all time. Of all causes which have made the building of cities without plan over costly and above all unsatisfactory, the laying out of new streets by individuals without regard to community needs is the most striking. Everywhere there is going on the work of widening streets, of cutting through valuable

property to establish better traffic connections, of changing and remodeling, bringing about only at tremendous cost what could so easily have been obtained with but a little fore-

Streets constitute the city's skele-They are most intimately connected with the lives of every city dweller and upon their proper location, width and grade depends principally the city's ability to function. No city plan is rightly named unless it shows a skilfully arranged system of streets, plotted to meet the many requirements and furnishing room for the city's growth over a reasonable length of time.

The street plan as shown herein for Auburn covers 7,680 acres, of which the present built up area comprises 1,330 acres. The proposed residence plotting 5,970 acres of which 3,720 acres are devoted to curved streets and the proposed factory district of 380 acres. The entire area covered by the plan includes 12 square miles or 7,680 acres. This would accommodate a population of 76,800, based on a ratio of 10 people to the acre.

The proposed plotting extends to the north and west as far as Lake Auburn and Taylor Pond and south to provide for a considerable extension to New Auburn and to develop the region west of the Little Androscoggin.

The hills immediately surrounding the city make the installation of streets exceedingly difficult and in order to secure permissible grades it is necessary to use curves until the more level lands to the west and south are reached. Here a more orderly system is shown, rectangular blocks 600 by 300 feet are employed, with a system of diagonals connecting with main thoroughfares leading into and through the present city.

An effort has been made to keep all grades under ten per centum and to provide against pockets which would interfere with sewers. The plans of the sanitary commission have been considered and streets have been so plotted that sewers may

be extended logically beyond t limits as contemplated in these plan

The framework of the street pl consists of existing main thoroug fares leading into the city from or lying points. These for the mo part, have followed the easie grades to be found and make co nection with outlying towns in t most direct manner. These the oughfares consist of the River Ro both to the north and south, Cen: Street, Turner Street, Sumn Street, Gamage and Minot Avenu Washington Street and Mill Stre and the old Danville Road in No Auburn. Court Street although tending directly through the city a reaching out into outlying count cannot be considered valuable as trunk line thoroughfare on accou of its severe grades.

These trunk thoroughfares ha been connected by main cross to thoroughfares designed to car traffic past the center of the city a to provide easy access from the ho districts to the factory section.

Secondary streets designed p marily for homes are planned to co nect with main thoroughfares and extend as far without interruption possible. Streets have been arrang to provide for a suitable distribut of street car lines.

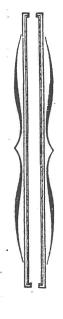
The plotting of the factory (trict and contiguous workingme home sections has been carried with particular reference to dustrial development. Direct proaches to the factory section fr the north, east and west are provid

The territory near the lakes been plotted so as to secure pul access to the water and to prov desirable sites for homes.

A park playground and boulev system has been designed in harmwith the street layout. School s have been designated with refere thereto.

While lacking the geometric 1 ance so often unnecessarily sou after, the street system as shown the ground, makes the best of a topographical situation and gives economical and workable a plan





reet extension as perhaps could be evised.

treet Plats

The proposed layout of streets is sown on two plans. The first rawn to a scale of 200 feet to the ich, shows the present streets of it city and the territory immediated adjacent to the built up section roposed changes within the present ity are shown on this plan. The econd plan drawn to a scale of 1000 eet to the inch is comprehensive and shows the proposed arrangement of all territory covered in the ruburn plan.

Inplotted Areas Within the City

Auburn has had a straggling evelopment. Subdivisions have been aid out leaving vacant areas between hem and the built-up sections of the. ity. Little thought has evidently een exercised in planning these abdivisions that their streets should in with existing streets. Many ofts in these subdivisions have been and scattered houses erected. change the layout at this time would therefore be extremely costly and is not contemplated. The probem lies in plotting the intermediate paces as well as the areas beyond so hat these detached streets may be wen into the general scheme and used to advantage. Cases in mint are the sections lying on both ides of Minot Avenue. Moc!: Sizes

A radical departure from present mactice is advocated in the size of the blocks and residence lots.

City blocks in Auburn at present range from 200 to 1600 feet in length and are invariably 200 feet in width. For the most part, blocks are not more than four hundred feet long. This gives an unnecessarily large proportion of ground area used for streets. Traffic is handled to no better advantage and the burden of excessive costs for building and maintaining these streets falls on the taxpayer.

The following figures are prepared to show the saving in money which may be brought about over a period of years by adopting a systematic plan for street extension:

In a representative section of Auburn the length of streets was measured on an area of 139 acres. In this area, 44 per cent of the land is given up to streets, or 342 lineal feet of street to the acre.

Another representative area was taken in New Auburn, a tract of 153 acres. In this tract, the streets comprise 41.7 per cent of the area or 300 lineal feet to the area.

lineal feet to the acre.

In the new plotting proposed, the rectangular arrangement of blocks 300 by 600 feet exclusive of streets, gives 35.5 per cent of the area in

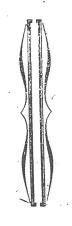
streets or 233 lineal feet of street to the acre.

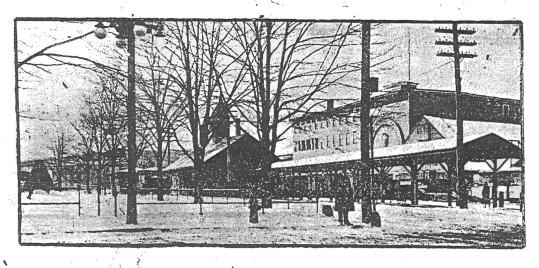
In an area of 944 acres of curved street plotting, according to the proposed plan, there are 153,100 lineal feet of streets or 9,568,812 square feet of street area. This amounts to 23.3 per cent of the tract or a length of streets of 162 feet to the acre.

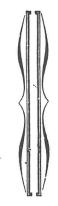
The following table shows the

The following table shows the saving in land and in street costs of the proposed layout as compared with the above mentioned representative portions of the present city:

NEW RECTANGULAR PLOTTING Area of streets (old system) 2250x 41.7% = 938 acres Area of streets (proposed system)







PASSENGER STATION, AUBURN.

2250x35.5%

= 798 acres

Saving by proposed system

=245,250 ft, NEW CURVED PLOTTING Area of streets (old system) 3720x 41.7% =1551 acres Area of streets (proposed system) 3720x23.3% =867 acres

Saving = 18.4% of 3720 acres

= 684 acres
Lin. feet of street (old system) 3720
x 342 = 1,272,240 ft.
Lin. feet of street (proposed system)
3720x162 = 602,640 ft.

Saving by proposed system

=, 669,600 ft.

Total saving in land 824 acres.

Total saving in streets
914,850 feet = 173.3 miles
COST OF STREET IMPROVEMENT FOR MILE

Item	First Cost	Int. & Depre- I ciation
Sewers @ \$2.40 per ft. \$ Water @ \$1.80	12,672.00	\$715.97
per ft. Catch basins Trees and plant-	9,504.00 750.00	536.98 42.38
ing Lighting Paving (30 ft.	5,000.00 6,000.00	
wide @ \$2.75 per sq. yd.— \$1.00 per ft. for curb		5,368.00
Sidewalks 5 ft. @ \$1.80 per ft. Grading	9,504.00	807.84
(average)	13,950.00	697.50

Total per

mile \$111,060.00 \$8,933.67 The above table of costs is based on present prices with 5% municipal bonds and sinking funds drawing interest at 4%.

The total saving in first cost by this proposed system of streets,

would be as follows:
173.3 miles street improvements @
\$111,060.00 = \$19,246,698
824 acres of land @

Total saving \$21,718,698

The annual saving in taxes based on the above would be:

Interest and depreciation on 173.3 miles street improvements @ \$8,933.67 per mile \$1,548,205 Maintenance on 173.3 miles street @ \$100.00 per mile 17,330

Total annual saving \$1,565,535 or \$20.87 per capita for a city of 75,000 inhabitants.

The saving to property owners of 824 acres of land at \$3000 per acre, a reasonable value for city lots would be \$2,472,000, which at 4% would give a net income to property holders of \$98,880 per year.

The above figures are only typical of the first saving in money which may take place by extending a city according to a scientific plan.

The only fallacy is in the assumption that all the streets, will be improved. What will certainly happen is that the city's investment in street improvements will go much further, a higher percentage of the residence streets will be improved, which will increase the value of the land and increased taxation will provide funds for still further improvement. In this way the city will be financially able to improve the streets as it grows instead of several decades afterward and will have a sound financial program, instead of being compelled to annex outlying areas in order to tax for improvements in the older portions of the city.

Alleys
With the exception of areas designated as future business districts, blocks are plotted without alleys. These are superfluous in residence sections where lots are of proper width. The expense attached to the building and maintenance of alleys, the little use to which they are put and their tendency toward breeding unsightly and unsanitary conditions has led to their discontinuance generally in modern town plotting.

Lot Sizes

By increasing the width of blocks from 200 to 300 feet, lots of 150 feet in depth are made possible. This will be a great advantage over the present arrangement. A building lot less than 60 by 150 feet has few possibilities for a modern home. The tendency of domestic architecture is to use more ground for the house. The bungalow, so popular at present, must furnish on the ground floor all the conveniences once demanded in the two-story cottage. The garage has become a fixture and more than this, the vegetable and

flower garden and the lawn with its shrubbery, perennials and trees have properly come to be considered as indispensable to the home.

The lot 100 feet deep and but 50 or possibly 30 feet in frontage is too small to meet these requirements. Neither is the small lot good city planning. Space cannot be had for sufficient set back for homes and the street is therefore given a crowded aspect. Subsequent widening if found necessary proves exceedingly costly. Shallow lots on rough topography are especially unfortunate as the different levels at which houses are placed cannot be satisfactorily overcome by grading as is possible where deeper lots are employed.

Larger lots help to guard against tenements, labor turnover and unsatisfied workmen, important in connection with greater industrial output and better citizenship.

To own a home is human instinct. To the laboring man few things appeal so strongly as a plot of ground on which he may keep chickens and raise fruit and vegetables. It gives him the diversion he needs from his daily toil. It gives occupation for the children and it gives an outlet for the thrift which the average laboring man possesses.

Land about Auburn is not high priced. A few hundred square feet added to future house lots will not materially increase the cost of homes and both for economical and sociological reasons, this should be done.

Whereas in rectangular plotting shown, house lots of 150 by 60 are suggested, in the irregular plotting even larger lots become necessary to fit in with the best arrangement of streets. Lots in these instances would be irregular in shape and size, giving a constantly changing orientation for buildings made necessary by the winding streets. This will develop a residence section of wonderful attractiveness as has been exemplified in scores of cases throughout the country.

Auburn will have an advantage however over many of these so-called residential parks for the reason that her streets will not only be winding and easy of gradient, but will lead with comparative directness between important points, so that houses may be numbered and streets may be designated with some degree of order.

PROPOSED STREET CORRECTIONS

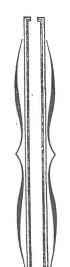
The following recommendations are made with reference to correcting bad street layout within the present city.

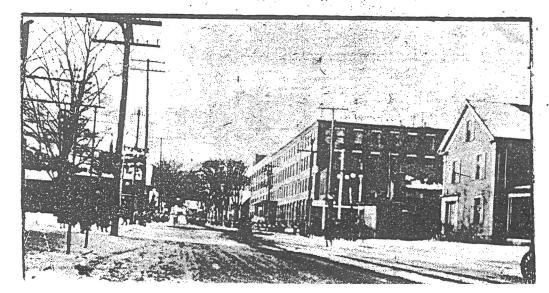
North River Road

The change in the location of North River Road at its intersection with Center Street is made with the view of taking the road out of the area subject to floods and doing away with considerable excessive main tenance.

The road where it crosses the lagoon outlet needs to be raised a does a short section of Center Streeto the north in order to protect a from floods, especially if the dam is to be raised.

A cut off as shown around the hillside would carry the road were above the danger line. This project also coincides with the parking scheme elsewhere set forth Connection Between France at Whitney Streets







xisting diagonals, Center and Turner Streets. Connection Between Summer and Tamage Streets

The lack of a street across the avine northwest of Dennison has aused, for many years, serious inconvenience. It is suggested to carry Davis Street through to Summer Street as shown and thence on to connect with Center Street. The ine selected permits of reasonable grades through draws approaching the ravine which would be spanned by a bridge of medium height. Extension of Orchard to Gamage

Orchard Street has been platted but not built beyond Highland Avenue. As platted it extends in a straight line. By curving this street slightly to the west a better grade can be secured as well as a better lot width on each side.

Extension of Davis and Hillside Avenues

It is suggested to carry these streets through as shown. The grade of Davis Street although steep will permit of its use as a through thoroughfare.

Connection of Manley With Goff
Manley Street now stub ends at
the ravine. To connect with Goff,
the ravine would have to be filled.
This could be done with cinders and
other good filling material from the
city. At the same time a connection
could be made with the park drive
shown leading through the ravine.
Extension of Cushman Place and
Subdivision of Land in the Neigh-

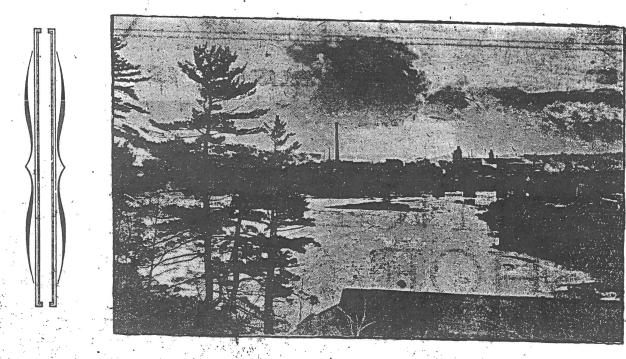
borhood The curved street subdivision which has been partially developed west of Washington Street and south of Court, although as yet unimproved, provides some of the choicest building sites in the city. This is equally true of the unplatted land immediately to the south and west. This land south to Minot Avenue and as far as Western Avenue has been plotted in conformity with the layout on top of the hill. Edgehill Avenue connection with Washington Street has been carried around the crest of the bluff crossing Cushman Place and down through the draw to the intersection of Western and Minot Avenues. This street would give excellent frontages facing east as well as on the proposed

parking along the ravine to the west. Harris, Weaver and Summit Streets are connected through to a curved drive skirting the proposed park and making connection with Western Avenue. Cushman Place is also carried through on a curve to connect with the same thoroughfare. Extension of Drummond to Minot

In conformity with the railroad changes elsewhere treated on the carrying through on Drummond Street to connect with Minot would be advantageous. This would necessitate encroaching slightly on one of the factory buildings. The street, however, carries considerable traffic and should be allowed to feed into Minot.

Grade Corrections

While several streets in Auburn have well nigh impassable grades such as on Drummond near its intersection of South Main and on Court Street, there is seemingly no opportunity to correct these at a cost which would be within the means of





the city or which would be warranted by present traffic. There are, however, exceptions, where by a moderate expenditure, grades could be eased and a great convenience and saving in cost of haulage could be brought about.

An example is High Street within the block next to Court. Here by adopting the profile shown, the grade could be reduced from fifteen to seven per centum. Lake Street also could be lowered at its crest and brought into Court at a much reduced grade. Several streets in New Auburn should be corrected as to grade before they are paved and this also applies to main trunk roads leading into the city and which in time will build up and become city streets.

Auburn is inadequately supplied with bridges. At least three bridges connecting with Lewiston are needed to meet present requirements, one north of the city, one at the falls and one at the rips below the city. Another bridge connection is needed across the Little Androscoggin connecting Washington Street with New Auburn. A site for this bridge is suggested connecting Mill Street with Washington Street at a point where the bridge could carry over both railroads. This would be about half way between the Court Street bridge and the bridge shown leading into the south end of the factory district.

STREET BUILDING

The beauty and convenience of a city depends but little less upon manner in which streets are built than upon the way they are arranged as to line and grade. It is therefore pertinent to the city plan that a more or less definite policy be adopted at the onset regulating the way in which streets shall be paved, lighted, planted and ornamented. It is not practical, however, to go too much into detail in such a general plan on account of the constantly changing and improving of methods specify pavements at this time for ten years ahead for instance, would be folly for the reason that by that

time great improvement in pavements may be brought about. The same holds true of lighting, sidewalk construction and the like.

On the other hand, nothing detracts from the looks of a city nor causes more inconvenience or waste of money than the constant changing and experimenting, which goes on in cities relative to street building. If successive administrations could but follow a policy which would at least hold to types, much would be gained.

Streets naturally divide themselves into groups according to their prevailing uses. A type of pavement like the asphalt group is eminently suited to light traffic, residential streets, park drives and the like. While improvement in asphalt streets may be expected from time to time, it may hardly be expected that they will ever give satisfaction on streets subject to heavy trucking.

On through traffic streets like Court, Minot, Main, Turner, etc., a heavier type of pavement such as brick, granite or wood block doubtless would be preferable.

These types once adopted should be followed consistently and not broken with intermediate stretches of other pavement of a general character, unfitted to the street in question.

The same principle should hold true in street lighting. The beauty of many cities has been marred by constantly changing the type of electroliers. An artistic standard should be selected at the onset. This may be specially designed and copyrighted. The height and spacing should be determined for business and residential streets and the scheme of installation adhered to. In this manner the city will be assured of efficient illumination as well as an individuality which a standard form of street decoration will give.

Street Planting
No element of street furnishing suffers from lack of plan and intelligent supervision as does the street tree system. Providence alone seems in most cases to protect street trees against the combined attacks of man.

beast, insect, gas, drainage and all the unnatural conditions to be found in cities.

In Auburn conditions are especially uncongenial to tree growth. The narrow streets have caused trees to be planted along the curbs where they receive no protection from horses and vehicles. Sidewalks and pavements cover the tree roots and lines of wires cut through their tops. Yet with all, there are some very fine trees in Auburn without which the city would lose much of its charm.

In planning new streets, tree spaces of not less than 6 feet in width should be provided. The city should adopt a definite policy of street planting and should have planting plans prepared in advance for each street before trees are set. No trees should be set out by individuals without a written permit from the proper authority, in which permit the species, variety, size and method of planting should be set forth.

The city should set aside an appropriation for the pruning, spraying, thinning out and replacement of trees on existing streets. This work should be done only by experienced men under the direction of a trained aboriculturist. Year by year this work should go on until the whole city has been covered and the trees are placed in a perfect state of repair and maintenance.

Species for Planting

Much time and money has beer wasted in Auburn in planting streets with species of trees unsuited for the climate, place or purpose. Boselders, silver maples, catalpas, poplars and other soft wood trees of quick growth are undesirable. While variations to the following list may be safely made, undoubtedly the besistreet trees for Auburn are as followed.

For narrow streets less than sixty feet between buildings: Honey locust, Gliditsia tricanthos; American Ash, Fraxinus Americana.

between buildings: American Elm Ulnus Americana; Red Oak, Quercu: Rubra; Sugar Maple, Acer Saccha rum.

Planting distances for trees should be as follows:

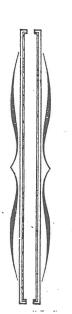
Honey Locust and American Ash 30 feet; Norway Maple and Red Oak 35 feet; Sugar Maple and American Elm, 50 feet.

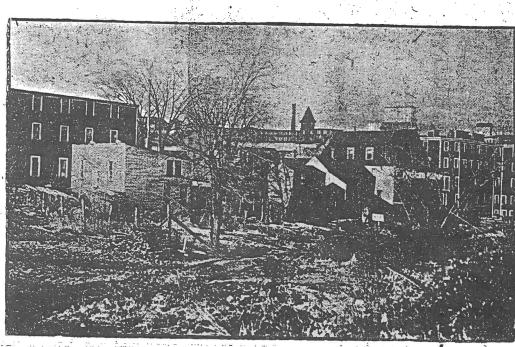
Uniformity of Planting

We recommend that in planting new streets but one species or variety of a species be used in a single street that the kind of tree selected be in conformity with the character of the street, that uniformity of planting spaces, methods of planting, etc., be maintained and that in existing streets crowded and incongruous specimens be removed and vacan spaces be planted to gradually bring about a uniformity of street planting over the entire city.

Overhead Wires

Since the new vision of citie there has been much effort to do away with overhead wires on streets. Some attempts have been successful many have failed. There is no dipute as to the advantages to the citifrom an esthetic standpoint in place.







ney are many times a serious detrient to shade trees. They have disadvantages. In northern ties like Auburn where sleet storms re common in winter, no small loss f service is caused by the breaking With modern methods of onstruction there is no doubt that etter service would result by underround construction. To combat the lea, however, is the larger first cost nd the habit. People are slow to nsist on a marked change from what hey have been accustomed, even hough such a change would be to hem a marked advantage.

A Board of Park Commissions ecently caused a straggling row of elephone poles to remain through a eautiful park because one of the nembers observed: "There is a telphone line past my residence and it

ooks all right.'

To cause all overhead wires to be daced underground in Auburn at ince would probably be disadvanageous. Ordinances can, however, e adopted providing for the regulaion of new streets in this regard and ime and again in this connection so vill with his own" has been advanced o bring about gradually, the eliminaion of all overhead wires.

kan Boards

The campaign against sign boards nas also been waged far and wide over the land. Many state laws and tity ordinances have been enacted, some with jokers attached that they night prove invalid. The foundaion principal of our democracy, namely "that one may do what he that after years of effort to clear our streets of the ever present and obnoxious sign boards little progress has really been achieved. However, much may be done to mitigate the nuisance. Overhanging signs in the business district and sign boards dangerous to human life or those constituting a fire hazard, may be regulated by ordinance. The mutilation of street trees by posters or the placing of advertising matter on public streets may be prohibited. Better, art in the size, the placing and the design of sign boards may be influenced by public appeal from the Plan Board or other civic bodies.

As in many other benefits suggested, far the greater progress may be hoped for by arousing civic pride which will cause individuals in their efforts to effectively advertise their wares to cease to offend the public

sense of fitness.

THE FACTORY DISTRICT Important in the consideration of the street plan is the scheme of arrangement for a factory district, the means by which this may be made accessible from other parts of the city and the method of arranging contiguous land that it may adapt itself best to residence purposes.

A proposed segregated factory district has been incorporated in the plans, careful study having been given not only to its own particular arrangement but to fitting it into the city's structure in order that it may become an integral part of the city as a whole.

The land selected comprising three hundred and eighty acres lies to the south of the city between the Grand Trunk and Maine Central Kaliroads.

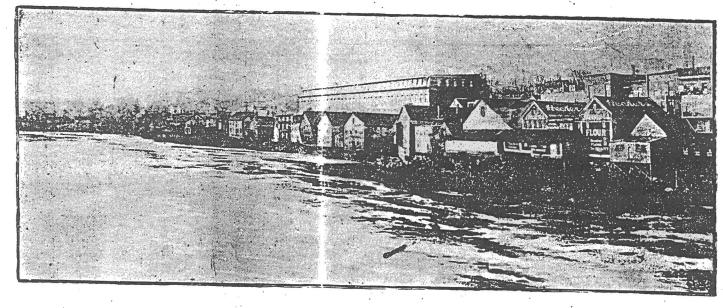
A combination of circumstances makes this tract an ideal one for industries while conversely no other site near the city affords advantageous conditions.

The land is comparatively level. It is served by the two railroads entering Auburn as well as by the Portland and Lewiston Electric Line. The Rangeley Division of the Maine Central connecting with the main line at Rumford Junction is close at hand. The Little Androscoggin flows along the south and east sides of this tract and its pure water would be of importance to manufacturing enterprises, while the valley formed by this river to its junction with the Androscoggin gives an opportunity to install necessary sewers.

New Auburn, which now contains the homes of a large proportion of Auburn's workmen, lies directly to the east across the Little Androsco'ggin. One or more bridges across this stream are already needed and with these built, the proposed factory district would be immediately accessible from this established workmen's

home section.

The land lying between the fac-



VIEW SOUTH FROM COURT STREET BRIDGE, SHOWING SHACKS ALONG RIVER FRONT.

for city building. Here, protected. by prevailing winds, a great modern addition to Auburn could be built up, with Taylor Pond and its attractive shore lands close by for recreation purposes.

Reasons for a Factory District

If Auburn is to forge ahead, she must pay attention to the future of her industries. There is no doubt but Auburn has great potential possibilities and by acting now and by constantly following a well defined policy, there is no good reason why these possibilities may not be realized.

In a paper read by Mr. Walter Sawyer before the Lewiston Chamber of Commerce on February 11, 1913, the importance of developing hydro-electric power with relation to the building up of the city of Lewiston and Auburn was set forth. It was pointed out that with each additional horse-power developed, two people were added to the community. By the impounding of water behind storage dams a considerable increased power had at that time been secured and the danger of industrial curtailment due to lack of power, had been corrected.

At present there is approximately eighteen thousand horse-power developed and used in the two cities.

Mr. Sawyer is authority for the statement that twenty-one thousand additional horse-power may be developed within seven miles of the cities by further water impounding, while in addition to this, ten thousand horse-power may be developed within twenty-five miles or within easy transmission distance.

The present factory district of Lewiston is already hedged about with houses and its extension would be exceedingly costly; the same holds true in Auburn. To utilize this available horse-power then, an entirely new industrial section needs to be

Auburn seemingly possesses the advantage of available sites and should profit by this possession. With low cost hydro-electric power and improved transportation facilities as suggested in this report, auburn may not only expect to keep her lead as a center for the manufacture of canvas shoes but may well be able to enter into other fields of manufacturing such as the reclamation of by-products from the pulp mills, the manufacture of paper specialties, bleaching powder and caustic soda by electrolytic process from common salt, of carborundum, calcium carbide, hard wood specialties and the like.

What the cities of Pennsylvania, West Virginia and Illinois have achieved in manufacturing by reason of their coal supply and what the cities of the oil fields are doing by reason of their natural gas, the cities of Northern New England may do by reason of their vast and only partially harnessed water-power. The Plan of the Factory District

The triangular tract of land proposed for the factory district has been plotted in rectangular blocks 600 by 300 feet with 66 foot streets. Through the center of these blocks would extend railroad streets 45 feet wide, each designed to accommodate two lines of switches and a running track which would turn, connect with the proposed classification yard, described under the chapter in railroads.

The course of the Little Androscoggin would be straightened as shown, to give a better use of the land and to save in the construction

of bridges.

The district could be developed gradually, a single switch being installed first at a point nearest the city where the first factories would be near the present freight yard, an advantage in handling broken carload shipments.

Economics of Factory Segregation The segregation of factories has mainly been brought about as a protective measure for the home, whereas from an economical standpoint it has even greater bearing in the operation of industry itself. There is no greater menace to a growing industry than the slow but sure creeping up upon it of homes, stores, churches and other elements of the city. Not having the power of eminent domain and unable to take over at the onset sufficient land for ultimate expansion, the factory plant soon becomes circumscribed and hedged in on all sides and ultimately is forced to move to a new location. Many times when this takes place, the city is in good chance of losing the industry altogether. Companies are apt in such cases, to survey other cities and to establish themselves where conditions are more propitious. A stable and constantly growing industry is perhaps a city's best asset. To insure this condition, three things besides raw materials and market are required, namely, transportation, labor and room to grow, unrestricted.

The definitely planned factory district furnishes these requirements. There need never be paid bribes to a city council for a spur track if beforehand a comprehensive scheme is laid out whereby each plant will have uniform and adequate railroad privileges.

No factory district is complete without its attendant housing section. This should be developed in pace with industrial development. If this is done with the primary motive in mind to aid industries, the labor problem will be largely solved. Lastly, by setting aside land to be used only for factories, ample room will be had for expansion. Given these conditions industries in any city may receive an advantage of tremendous importance.

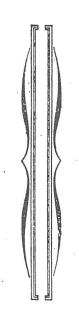
In the matter of protecting the home from the encroachment of factories much has been written and many laws have been enacted. It suffices to say, that if the home comes first and becomes established, the factory with its noise and smoke and odors has no right to intrude. Marked deterioration in the value of residential property is too often apparent in such cases to admit of justification.

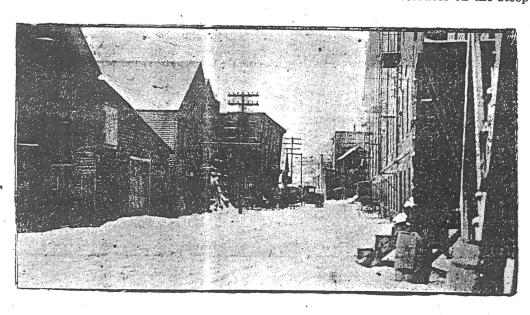
As a matter of fact, the factory is generally established first and the houses group around, both to the disadvantage of the home and the factory.

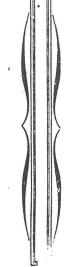
Therein is shown the service of city planning which aims to guard against that which, left to itself, acts to hamper and retard the community. WORKINGMEN'S HOME SECTION

The factory district as proposed would be flanked by two residential districts which, although not characterized by difference in arrangement from other parts of the city, would lend themselves ideally to workingmen's homes. These sections consist of an extension to New Auburn and the territory extending westward to Taylor Pond.

In the extension to New Auburn, curved streets have been employed, fitting the natural contour of the ground and forming a series of street terraces on the steep side hills. The







we streets would converge to meet wisting streets and eventually lead into Broad and Main Streets which, arravided with bridges, make direct connection with Lewiston and Auburn.

Transverse streets have been carried down the hillsides on the best grades attainable and following natural draws. These make connections with the River Road on the east and to the west carry over bridges to the factory section. Long blocks have been employed for the reason that but few opportunities are afforded for these cross streets. Lots approximately 150 feet in depth are for the most part provided. Parking along, the Little Androscoggin would form an effective and charming buffer strip between this home section and the factories.

To the west of the factory district, the land stretches away comparatively level to Taylor Pond, giving an opportunity for a more regu-

lar layout of streets.

The central feature of this plotting is a broad avenue leading from the center of the factory district to Taylor Pond and terminating in a park. Midway on this avenue would be located a business and community center.

The rectangular streets are superimposed by existing diagonal streets making direct connection with the city's center. Thus, the tract possesses the advantages of being contiguous to the factory section, of being within easy communication with the business section, excellent of topography and ideally supplied with recreational features. With proper guidance, this could become a most attractive cottage colony. With large lots, good soil, attractive surroundings, and comparatively low priced land, all the elements would exist for real homes.

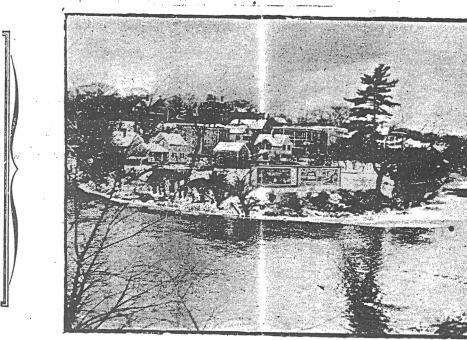
It is left only to the enactment and enforcement of proper building and housing laws, to insure this.

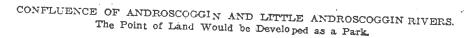
BETTER HOUSING FOR AUBURN

To bring about a character of housing such as to be desired in any up-to-date community, the keynote must be struck in the city's building code. Building codes as a rule go no further than to insure buildings against structural defects, the defects, theory being to protect life and limb. In late years there has been a marked tendency to so modify building codes that there will also be insured a protection against adjacent property deferioration, against unhealthful living conditions and against civic ugliness. It has become accepted that for the city to merely guard against a building collapsing by reason of imperfect material or faulty construction, is but going part way.

Important housing lgislation has been enacted in a number of states, notably in Indiana and Pennsylvania. A zoning law has been recently passed in Illinois which materially affects an important phase of better housing. The United States Government during the recent war set a good example in providing model living quarters for laborers.

Auburn's housing conditions on the whole, show no cause for complaint, especially when conditions in many other cities are taken by com-





parison. It should be one of the policies of the city plan, however, to keep conditions from falling to the plane elsewhere found and to bring a constant improvement in living conditions.

Far the greater number of Auburn's people live in their own homes. These can, as a rule, be little improved upon. The home of the average American citizen is undoubtedly far better than that of the average citizen of any other country and seldom may one find a city where homes are better maintained and where there may be found a greater air of contentment and love of home, than in Auburn. Auburn, however, has a limited tenement district and. herein lies her chief menace. The buildings cover a larger percentage of the lots than should be allowed. Of wooden construction, they present a serious fire hazard and in the arrangement of rooms, lack of good ventilation, sufficient fire escapes, window area and bath room facilities, they are by no means up to the standard required in modern housing. While every possible effort should be made to do away with tenements in favor of individual houses in the future, if tenements are to be built, they at least should furnish the best housing conditions possible.

The following suggestions are given as improvements to the present building code.

Subdivision of the Land

At least ten per cent of newly platted territory should be reserved for school and park purposes to be arranged in conformity with the city plan. Streets should have a minimum width between property lines of sixty-six feet which should increase according to their relation to the city plan. Pavements on sixty-six foot streets should vary from twenty-six to forty feet according to character of street. Main thoroughfares should be extended according to width established.

Building lots for single dwellings should contain not less than 7500 square feet.

Lots on which multiplex buildings

are erected should be increased in proportion.

Height of Buildings
No dwelling should exceed in height, the width of the widest abutting street.

Open Spaces

All dwellings should have a set back from front of property line of twenty feet.

Side yard space between adjacent buildings to be twenty feet, space to be increased proportionately for each additional story. Rear yard space to be not less than height of building, space between back of buildings to be not less than fifty feet.

Sanitation

No living quarters to be allowed in basements. No outside privies allowed in sections provided with sewers. First floor of dwelling not to be lower than street grade unless set back from street exceeds fifty feet. In multiplex buildings, running water and suitable bath accommodations to be furnished in each apartment.

Stables, the keeping of pigs, chickens, etc., to be regulated by zones fixed from tme to time by city ordinance.

Windows and Ventilation

Every room to have at least one window opening directly to outer air. Each room to have window area of not less than twelve square feet. Cross ventilation to be provided for all rooms through windows, transoms or doors. Bath room and water closet windows to be not less than six square feet, open directly to outer air. Ceiling heights to be not less than eight feet. Rooms except bathrooms, water closets and kitchenetts to contain not less than eighty square feet of floor space. In apartment dwellings, in each apartment there should be at least one room having not less than one hundred fifty square feet of floor space. Fire Protection

Provision in multiplex dwellings for ample means of egress, fire walls, fire escapes, hallways, basement entrances, etc.

Maintenance

Proper repair and maintenance of

rented buildings by owners. Cleaning of catch basins, providing receptacles for garbage and rubbish, prohibition of the storage of combustible materials.

STREET CAR TRANSPORTATION
Recommendations at this time
calling for increased street car service seems little less than preposterous for the reason that transportation
companies everywhere are at present

Adequate street car transportation is necessary to the operation of the modern city. Not only does such transportation make it possible for the modern city to function, enabling people to traverse within reasonable time the constantly increasing distances between their work and their homes, but upon the arrangement and operation of street car lines largely depends the character of the city.

No greater evidence is there of the need of city planning than the deplorable conditions so often observed due to the undirected extension of surface lines and the natural tendency on the part of private companies to follow the crowd, always keeping a little behind the city's growth and thereby causing territory tributary to the lines, to become thickly settled. Tenements and congested housing follow in natural sequence.

This policy of extending lines only after a sufficient population in any district insures dividends also causes lines to be built on streets unfitted for their use. An unwieldy system or rather lack of system is brought about with resultant slowing down of service, increased cost of operation and general inconvenience

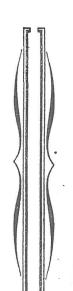
to the people.

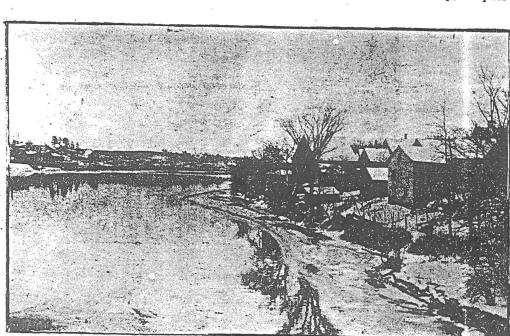
Street car lines should only be built on streets of ample width to accommodate them and in turn these streets should be planned in advance to give the most advantageous routes. Lines should be kept extended into districts of medium population density so that encouragement will be given to build homes on larger lots and thereby produce better home conditions. Whether street cars are owned and operated by private companies or by the municipality, there should be a definite and complete control by the municipality over the plan of extensions as well as of operation.

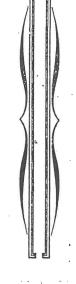
Auburn's Street Car Line Plan
A comprehensive plan is shown providing the entire platted area with a car line system designed to serve most directly important points, to traverse permissible grades and to furnish as efficient service as possible.

The system is laid out for a maximum walking distance from homes of fifteen hundred feet. There is a total mileage of 32.6 of which 21.9 miles would be new track and 10.7 miles of old track would be used.

Seven routes are designated, five of which are through routes leading from outside districts to the center of the city, the remaining routes being shuttle lines connecting these routes. Two through lines and one shuttle line extend through to Lewiston.







actory district, the center of the city nd Lewiston, either direct or with ut one transfer.

New Auburn is connected directwith the proposed factory district nd with the present factory district f Auburn and Lewiston. All interrban lines remain as they are.

The changes in the present local mes consist in the abandonment of art of the Washington Street, Minot venue loop and the Davis Street, Jourt Street portion of the "figure" loop.

The plan contemplates increasing he present mileage three times to ake care of five times the population, it the same time giving proportionitely better service. Lines are caried within fifteen hundred feet of a arge portion of the lake shore and an easily be extended to any important point which may develop on the lakes.

Routes are shown as follows:
Route 1—Civic center and East
uburn 1 Route 1 Road.

Route 2—Civic center north to point between Auburn Lake and Tayor Pond with a branch east.

Route 3.—Civic center northwest

Route 3.—Civic center northwest over Goff Street to south end Taylor Pond with a branch from proposed park to the north.

Route 4.—Shuttle line from route five, Minot Avenue on Western Avenue around proposed park to route three, then northeast across route two and ending at route one on East Auburn Road.

Route 5.—Court Street to Minot Avenue, over Minot Avenue with branch on Portland Road and a branch on Washington Street. Both branches serving proposed factory district, and Minot Avenue part serving present factory district.

Route 6.—Court Street over Main Street, to New Auburn. Branch to east and west.

Route 7.—From Lewiston factory district through New Auburn, across river to route five, through proposed factory district and workingmen's residence district and around the boundary of the plotting to the end of route two.

Operation scheme combines routes five with route one. Routes three, seven and two extend to Lewiston. Route six extends only to Court Street.

Temporary connecton of route seven cuts off part of the loop, pending development of the factory district. If this line is installed it could be abandoned when the factory district has grown sufficiently to warrant building it at its proposed ultimate location.

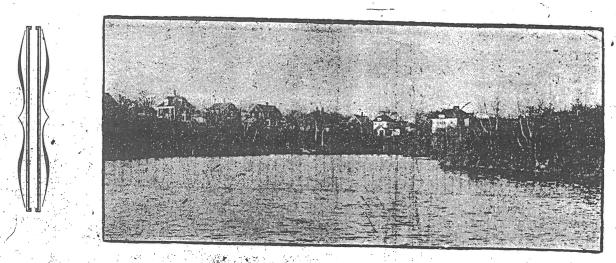
Combining routes five and one avoids turning cars down town and gives direct connection between those sections of the city served by route one and five with down town and both the present and proposed factory districts.

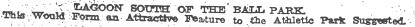
Route seven connects the proposed workingmen's residence district and factory district of Auburn with New Auburn and Lewiston.

Route three to Lewiston connects the central residence and business districts of the two cities and by transfer at the civic center or on shuttle route four or crossline seven all points in Auburn are connected with the business and factory district of Lewiston. Route two connects civic center and railroad station to Lewiston.

Economics of the Plan The car lines as laid out can be installed and operated at a profit figuring on the rate of increase of population and the ultimate population which will be accommodated within the plotted area. The combined population of the cities of Auburn and Lewiston is now about fortyfive thousand. The total rides during 1917 were 3,837,858 or 85 rides per capita. Auburn is increasing in population at the rate of 15.6 per cent per decade. Assuming that the two cities increase in the future at this ratio, the total population of the two cities will reach 200,000 in about one hundred years, the period during which, at the present rate of growth, it will take Auburn to reach a population of 75,000.

Experience in the operation of traction lines shows that the rate of increase in the number of rides averages about double the rate of in-





capita per year at the end of the one hundred year period or a revenue of \$2,740,000 based on a 5 cent fare. At present costs of construction and operation, a one dollar increase in revenue will justify a three dollar increase in investment at 7 per cent or an investment of \$8,220,000 by the end of the period. By the time the population of the two cities will have reached 150,000 the rides per capita will have passed two hundred. scheme as laid out for Auburn will have 32.6 miles of track, one mile to each 2300 population. At 200 rides per capita this would produce an annual revenue of \$23,000 per mile of line, hence justifying an expenditure of \$69,000 per mile which is ample to build and operate the lines proposed.

These figures are based on an average population density of ten people to the acre and would of course apply to an increased rapidity of growth.

THE RAILROAD PLAN

The following recommendations may seem too radical and costly to undertake especially while the railroads are in their present chaotic condition. It will be found, however, that the benefits to be derived both by the city and the railroad companies will justify the cost.

The plan in brief, calls for the unification of all railroads serving Lewiston and Auburn, the building of a Union passenger station, the remodeling and enlargement of the present freight station and team yards in Auburn and the installation of a Union classification and distribution yard in the proposed factory district in Auburn.

It also contemplates the elevation of the Maine Central Railroad through the present built up section of the city and beyond, thus providing for the elimination of all grade crossings.

Unification of Lines

The Rangeley Division of the Maine Central, connecting with the main line at Rumford Junction and the Lewiston branch of the Grand Trunk would be combined. A new line extending across the proposed factory district would join with the Maine Central. The west portion of the Rangeley Division would remain as at present. The Lewiston branch of the Grand Trunk woud be abandoned. This would allow all freight from the west over the Grand Trunk or Maine Central to enter the factory district or be carried on through Auburn to Lewiston direct.

The Brunswick and Lewiston branch of the Maine Central from Crowley Junction would remain as at present for freight purposes. A cut off would be built from Crowley Junction to connect with the main line near the Fair Grounds. The Farmington branch through Sabattus to Leeds Junction would be abandoned. By this means, freight from the east could be carried directly through to Auburn and to the new factory district and passengers to the Union Passenger Station.

In combining the Grand Trunk and Rangeley branches a total saving of 4.8 miles of main line track would be brought about. In abandoning the Brunswick and Lewiston line a saving of 5.2 miles of track would be made and the saving in distance in bringing freight into Auburn as compared with routing via Leeds Junction would be 13.2 miles. Altogether in the changes contemplated 17.6 miles of track would be abandoned and 7.6 miles of new trackbuilt.

The main objects to be obtained by these changes would be:—
The through routing of freight to

the present and proposed factory districts of Auburn from points east and the saving in hauling distance.

žž.,

The better handling of freight from points west.

The elimination of the Grand Trunk terminal in the two cities with the two freight, the two passenger stations and the bridge across the river.

The consequent opportunity to improve the appearance of the city.

The handling of all passengers at a Union Station.

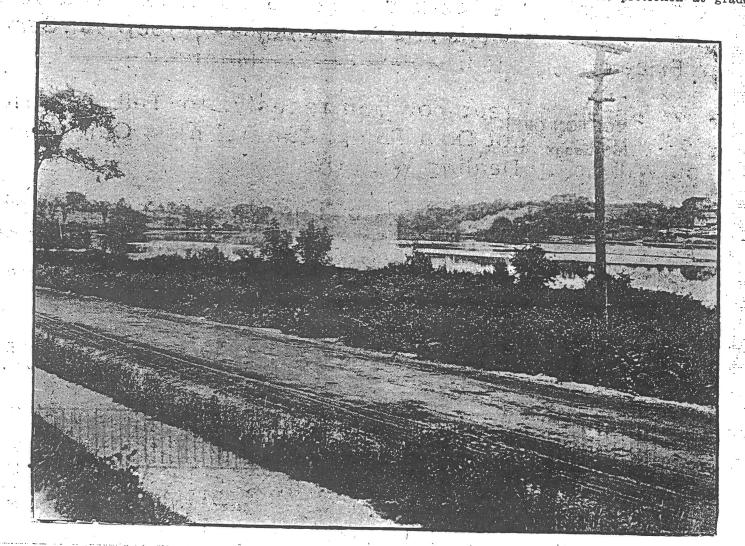
Elimination of Grade Crossings

The Maine Central extending through the entire built up section with all save one street crossing at grade presents a serious barrier. The delay to street traffic especially at Court Street gives sufficient reason for grade crossing elimination. This fortunately can be accomplished by elevation, bringing about an actual improvement in the grade of the railroad. As shown by the profile the grade drops 33 feet in entering Auburn from the south and 17 feet from the Lewiston end of the bridge; the grade of the bridge itself being .71 per cent.

By leveling the bridge and carrying a grade of .123 per cent through the city, all streets could be crossed with ample head room without depressing in any instance more than 2½ feet. In all 7500 lineal feet of track would be elevated between the bridge and the Grand Trunk crossing. Including the extension of Drummond Street to connect with Washington, eight grade crossings would be eliminated.

Freight would be delivered to the second story of present factories abutting the railroad.

Beyond the danger of accidents which is always considerable even with the best protection at grade



rossings and the delay to traffic, the ost of which can hardly be computed out which will as a matter of course ncrease with the growth of the city, he money saved by the railroads in lot having to guard crossings would ay interest on the investment.

An approximate estimated cost of he elevation from the Lewiston end f the bridge to the Grand Trunk iaduct is as follows:laising tracks 7500 feet

16,000 yards embankment 38,670 laising industry tracks 46,000 ,000 feet retaining wall 30,000 laising river bridge 5,000 treet crossings 200,000 including Drummond

nd Adams Streets)

\$348,320

Annual saving in guarding the six rossings now provided with watchnen, \$20,280. This would give a reurn on the investment of 5.9 per

Should the guarding of Adams and Drummond Streets be included n annual saving of \$27,040 would e brought about or a net return on he investment of 7.7 per cent.

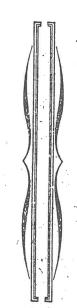
It would cost approximately 12,000 additional to carry the eleation through the factory district s shown. This would be necessary n order to give better grades for rack connections.

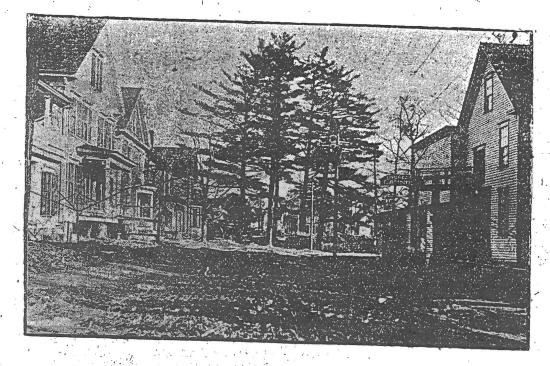
lassification and Storage Yards

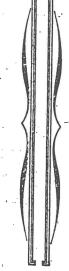
The classification and storage ards would be located at the factory istrict, well outside of the present ity, where land is low in price and where ample room could be had for xpansion. The noise and smoke vould be far removed from the resdence district and factory owners vould profit by direct and quick andling of cars to their doors. ards would occupy an area of 300 by 000 feet with a storage capacity of 000 cars and a daily handling capacy of at least 600 cars.

The yard is so arranged that no treets would cross at grade. Washigton would be deflected from its resent line and carried under the acks through a ravine as shown. eaming Yard

A plan has been drawn providing







LOOKING TOWARD THE PROPOSED RAVINE PARK FROM MANLEY STREET.

for an enlarged teaming yard to meet conditions imposed by track elevation. It is proposed to fill in and use the land lying directly east of the present freight station. This area would be used for team tracks only. The freight station would be placed west of the track fronting on Washington Street. Being on the street level freight would have to be lowered from the unloading platforms by elevators.

Freight house and transfer shed track capacity of 322 cars with freight house area of 22,000 square feet is provided.

High Street would be raised as shown by profile to enable teams to reach the track level. This change would materially help the grade of the street in its approach to the railroad.

It would also be necessary to raise Elm Street from its intersection with Drummond if access over it to the yards should be desired.

The yard would have a capacity of 60 cars. There would be a maximum grade of 3 per cent on the switch lead from the main track.

Ware house sites of 47,000 square feet with track capacity of nine cars would be provided on the High Street frontage.

This yard although small is conveniently located and occupies the only available space to be found in the city. Subsequent team yards could of course be provided in the factory district,

The Union Passenger Station

Not only would the Union Passenger Station become an important element in the railroad plan but it would form a most imposing feature in the civic group elsewhere discussed.

The location suggested is immediately west of the river on what has been long known as West Pitch. By thus placing the station there is no reason that it should not serve both

cities equally well.

With the suggested arrangement of car lines which could be supplemented in Lewiston, passengers from all railroads could transfer to any point within the two cities without loss of time.

The location near the center of both cities and looking out over the falls and park would be most convenient and attractive.

AUBURN'S BUSINESS SECTION

As is to be expected with a larger city so close at hand, the business section of Auburn has been relegated somewhat to the background. increased population and with the development of other features of the city as outlined, especially with the advent of more industries, the present business center of Auburn surely may be looked to to increase proportionately in size and importance. The retail section can be expected only to follow other development within the city and within the city's tributary





E, The Chalmer's Lumber Co., Executives and Workers, Do Hereby Pledge Ourselves to the Best of our Ability and Resources, to Maintain Quality of Goods and Workmanship, Keep our Service Efficient, and to Price our Goods in a Reasonable Manner.

We Agree to Treat You Courteously, to Tell You Honestly Whether We Can or Cannot Do a Thing, And to Enjoy Our Jobs So Much, That You Will Enjoy Dealing With Us.

We Shall Add From Timeto Time, New Equipment, Workers or Merchandise, That Will Enable Us to Keep Up With Your Demands.

So, That, If You Need Lumber, Mill-Work, or Builder's Hardware, You Will Look to Us in the Future as You Have in the Past.

Signed; CHALMER'S LUMBER COMPANY

J. E. CHALMER'S Pres. & Treas. ELLA F. DAGNEAU Clerk.

Chas. C. Small A. L. Washburn Cyrus Brown Charles McLaughlin

Alger I. Millett Erlon Rand Clyde Smith Harry Goss Thomas Chiffelle

Lee Bolster E. L. Gould Albion Cobb Bert Eveleth Margie Monk

Fred W. Quimby Herbert A. Lucas Irving E. Alexander Edward Harradon Perley A. Smith

isiness district more attractive and erefore tend to keep Auburn's trade ore largely on the home side of the ver and possibly attract from the

wiston side.

The civic center and river front iprovements would, no doubt, help aterially in this regard. The reoval of the present city hall and the ilization of the space for business irposes would without doubt help ourt Street from a business stand-

What is needed most are features hich will liven the district especially night. A good theater would help eatly and there would be room, king the two cities together, for a ally good playhouse.

A community club has been sugsted. The new Y. M. C. A. will oubtless be of help. 'As soon as the vic center park is completed band ncerts, pageants and other open air

rents may be held:

A new hotel would mean much to the business center. A public market as been tried out with some degree success. There is no doubt as to be value of a public market when roperly operated and its effect in imulating the business district 19th to be good.

Some things may be done to imrove the looks of the business reets. As has been mentioned beore, overhead wires may be dislaced with underground cables. igns may be regulated and a uniorm and decorative system of street ghts installed. Store window disays could be improved and fairs and azaars held to attract more people to uburn's places of trade.

The Chamber of Commerce can o doubt do much in fostering these natters and in fact the success of the ntire city plan must depend very regely on the efforts in its behalf on ne part of this and similar organiza-

Physically, the business section of uburn is limited; Court, Turner nd South Main Streets being about ne only thoroughfares suitable for usiness purposes, by reason of their idth and grades. These, however, upplemented by the business section f New Auburn and by the detached enters which may be expected to pring up later, will doubtless be ufficient to serve the city.

ZONING

Uudoubtedly the best interests of he city may be secured by limiting ndustries to restricted areas. At resent the laws of Maine do not give authority for fixing such zones for does the special city charter of uburn make such provisions.

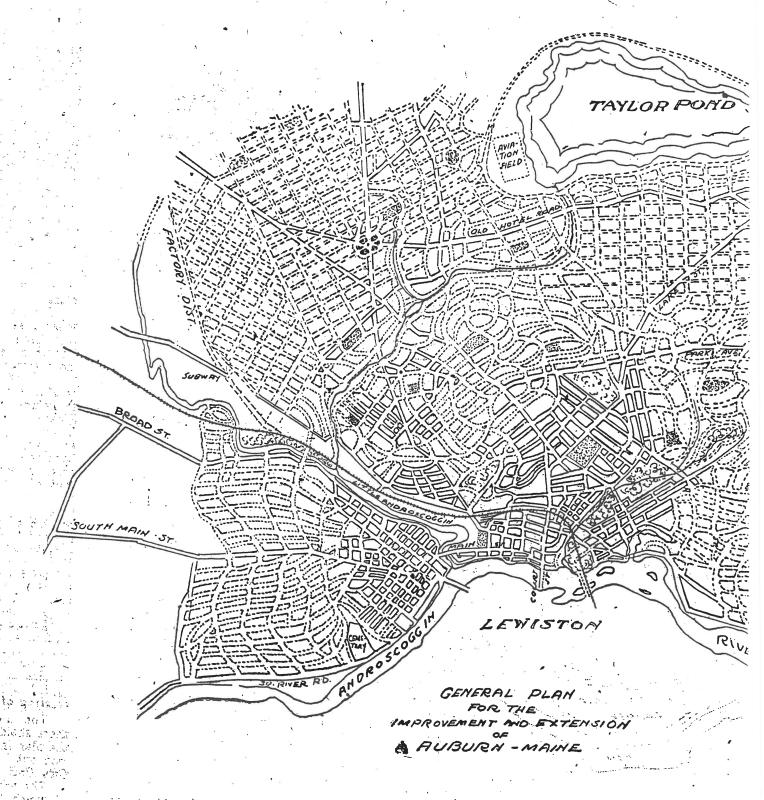
It is improbable that city ordinances would be effective in conrolling such restricted areas. The emedy lies in obtaining suitable laws

rom the State Legislature.

The Illinois law recently passed, provides for the initiative to be taken y property owners within any pre-cribed district. Upon referendum the question of thereafter allowing actories or stores within the area is l**ec**ided.

A zoning plan for Auburn, if fixed by the city plan, should limit indus-ries to within a small radius of the mesent factory district and to the

untry. Several things might be GENERAL PLANFOR THE IMPROVEMENT.



area designated for future factories. If it were deemed advisable to include tenements in the zoning scheme, they would naturally be limited to the section immediately surrounding their present location and to a special zone nearer the factory district.

If tenements are to be regulated, apartment houses, which are only high class tenements, should be also regulated.

To go further and limit the area in which stores may be built has often been suggested.

The whole problem of zoning is

one which has to be handled with delicacy and good judgment. What may seem objectionable from a theoretical standpoint may be profit and convenience to a com-There is no doubt but in munity. many instances, stores intruding on

residence streets have caused a depreciation in near-by property values; while on the other hand these places of business have come about through an obvious demand.

The chief objection to neighborhood stores has been their tendency to build forward to the property line, thereby cutting off the view from houses along the street. By the universal regulation of building lines this cause for complaint may, of course, be obviated.

Zoning in some parts of Europe, especially in Germany, has been carried to an extreme which undoubtedly would not be tolerated in any democratic American community. Just how far we should go in this regard order to protect the majority and at the same time respect individual rights is an open question.

PARKS

From a standpoint of natural beauty Auburn is in itself a park. Were we to know that the city would never be larger than it is today, that the surrounding woodlands would be as free to enjoy without trespass and that the boys could always use the old swimming holes, barely anything would be needed in the way of parks save perhaps an out-of-door resting place "down town." We are, however, assuming that Auburnwill grow continually. By the time the city reaches a population of fifty thousand, vacant lots in which children now play will be built up. The annoyance to farmers by townspeople overrunning their lands Will stopped by land posting and the woods and pasture land now so free to romp over and on which to picnic will be not for the next generation.

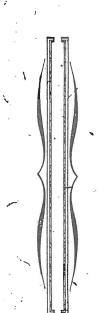
Parks and recreation spaces are therefore considered a standardized requisite of the modern city. For a city to be properly outfitted with parks is of relative importance to providing a system of schools, fire engine houses, or sewers. Providing cities with parks has become a science in itself, a science in which there are rules of procedure based on.

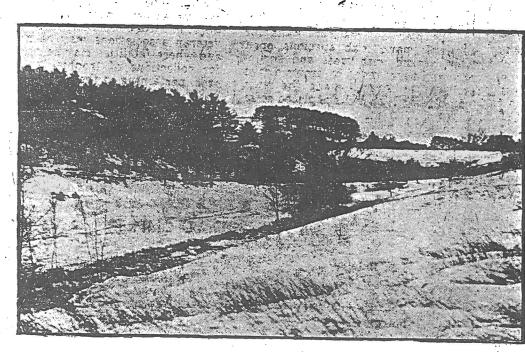
the needs and experience of cities. Briefly, some of the accepted principles governing the selection of parks are as follows:-

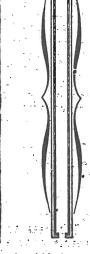
There should be a fairly fixed ratio of park area to the population; the accepted standard being one hun-

dred people to the park acre.
Park units should be so located that all parts of the city will be conveniently accessible thereto. A park unit within a half mile of every home is the ideal sought after.

... In the selection of land for parks. effort should be made to preserve landscape of natural beauty; the shores of waterways, vantage points

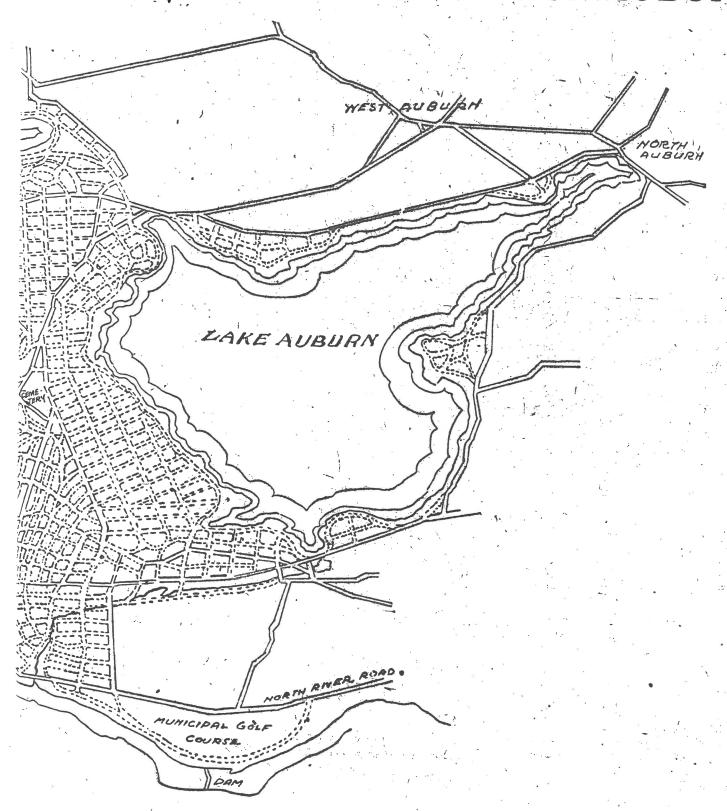






TOORGE TOTAL TORGETH

DEXTENSION OF THE CITY OF AUBURN



will lend themselves to purposes of organized recreation.

Parks should be arranged in conjunction with schools, in order that the school buildings may serve the purposes of neighborhood centers, a use which may be greatly aided by reason of having well arranged park spaces in conjunction.

In the selection of park sites where possible, land should be selected which is of least value for residence, factory or other purposes. Such lands are generally most advantageous for park use on account of rough topography, streams and other, features of natural beauty.

Parks should be planned for use as well as beauty. They must be made to serve as effective safety valves for the physical well being of the city's population. Provision should be made for all sorts of healthful recreation to fit the needs and desires of all, old and young. A successfully developed and operated system of parks in any city makes for physical and moral uplift. Parks are insurance policies for better citizenship.

Parks should be planned for beauty as well as use—that is, real beauty based on adherence to the rules of art,-proportion, line, color, mass, balance, not on whitewashed tree trunks, cobblestone edges, cast iron fountains, ugly statues, incongruous flower beds, and other freaks. Art in landscape does not depend upon ornateness and cluttered brica-brac. Millions have been spent for such in parks only to be torn out. Nothing better reflects the culture and true character of a city than the manner in which its parks are built, unless it be the character of its homes.

THE PARK PLAN FOR AUBURN In the plan for a system of parks for Auburn, the needs of the present

mall as the future city have been

problem is to meet the city's present needs and in such a way that there will be secured a nucleus for a larger park system that in time may be developed by gradual stages as the city expands.

The general system as outlined comprises 890 acres, considerable of which is included in narrow strips of parkings along boulevards. Boulevards comprise 32.3 miles.

The Falls, Park and Civic Center

The outstanding need today is for a centrally located park where out-ofdoor public meetings may be held, where automobiles may be parked, where band concerts may be held and where the city may give its first exto out-of-door art on public grounds.

The site recommended lies along the river bank opposite the Falls on property which has for years been known as the Clay Bank.

The land in question is largely vacant. The few buildings thereon aside from those of the Penley slaughter plant, being of minor consequence. The ground is high and out of danger of floods. It commands a full view of the falls, is in the very center of the city, is on the Turner Street car line and but a few steps from the: lines on South Main and Court Streets. Altogether it is a most fortunate site, the wonder being that such a spot has been left so comparatively free from improvements.

The Falls of the Androscoggin are unique and beautiful. It is most unusual to find a natural feature of this kind in the heart of a city. At night a large amount of water flows over these falls, and with very little expense they could by means of searchlights be illuminated to give a wonderful effect. Whereas at times there is a disagreeable odor arising from the water due to the lignins or wood cellulose wasted from the pulp mills shove in veers to come

or be altogether eliminated by one or both of two reasons. First the tend-ency of states to legislate against the pollution of running streams when such pollution in any way causes annoyance of urban population. And second, on account of the rapid tendency to utilize all possible by-products in manufacturing. It has been demonstrated that these lignins are susceptible of being manufactured into alcohol at a reasonable cost, and with the phenomenal increase in the use of internal combustion engines and the difficulties in securing an adequate production of gasoline the manufacture of wood alcohol may be looked to as a coming industry of great importance. Therefore, although the cleansing of the Androscoggin River may not come at once, the tendency is in the right direction and the menace may be looked upon to decrease rather than to increase. Motif of Plan

The plan of treatment calls for a simple park with spacious open lawn banked with trees and shrubbery and surrounded by ample drives and walks. A wall along the river would be built on a curve placed so as

to reclaim considerable ground which has in the past been washed out. Along this wall should be an esplanade.

The park would be surrounded by public and semi-public buildings, providing a civic center of striking

The scheme of layout is informal as influenced by the irregular arrangement of the surrounding streets, the proximity to the falls and the rustic characer lent by the

wooded promontory.

The buildings would be interestingly grouped but without a predominating axis. Each unit would have a commanding view and would in itself be prominent from other leastings in the scheme. locations in the scheme.

In the architecture of buildings the Colonial style would predominate Solidity, strength and permanence fitting to the rugged hills and climate would mark their design.

An uncovered bandstand of simple, classical lines would be the only architectural feature within the main

The Post Office would fit into the scheme admirably, the only suggestion being to remodel its north elevation in order that it may present a more attractive front to the park.

It is necessary for the most suc-

cessful working out of this project to include the triangle surrounded by Pleasant, Hampshire and Turner Streets. Unless this area is acquired and appropriately treated an in-harmonious element will be interposed between two important buildings of the group, the Y. M. C. A. and the City Hall. The triangle, once cleared of improvements, may be held as a future site for a minor public building or preferably left as a parking, treated by massing heavy planting in the rear and introducing a simple but effective fountain with a single jet rising high above a plain basin of granite. Y. M. C. A. Building

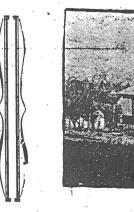
Acting upon the preliminary recommendations regarding the civic center, the committee in charge of building the new Y. M. C. A. have secured the site suggested and have taken necessary steps toward the erecting of the building.

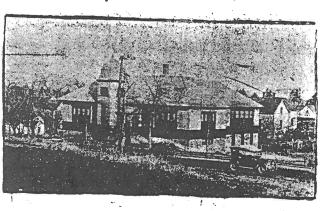
The die is cast therefore and there shold be no turning back until the plan in its entirety has been carried out. (City Hall

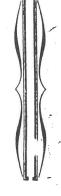
The proposed city hall, a building of which the city is sorely in need, would occupy a triangular space formed by Turner Street and the proposed drive. While occupying a commanding position in the group and standing out prominently as ap-proached over Turner Street or from the park, it is not intended to cause building to predominate the

The entrance motive would repeat on three sides, and while dignified as befitting an administration building, it would be essentially convenient and business-like.

Liberty Buildings In line with the present idea of erecting liberty buildings in place of the archaic and useless monuments, which were wont to be erected in memory of the country's heroes, we have suggested a building to be used as a community gathering place or forum, where a large assemblage may be accommodated as in conventions, musicales, concerts, etc.; where veteran associations may be housed. and where facilities may be provided for collections of trophies and records, pertaining to the history of the We believe it would not be







anness to also include in this building game rooms, club rooms and a spacious lounge, so that the building could be used as a free public club. Indeed the limit of use for such a building in a city the size of Auburn may be hardly estimated.

As an auxiliary to the community

As an auxiliary to the community park, it should contain public toilets, and the location of an out-of-door swimming pool in the rear with dressing booths may well be considered. The building would be placed on the north side of the plaza, facing south at a proper height, so that with its supporting planting screen, it would shut out from view the packing plant in the rear.

Hotel

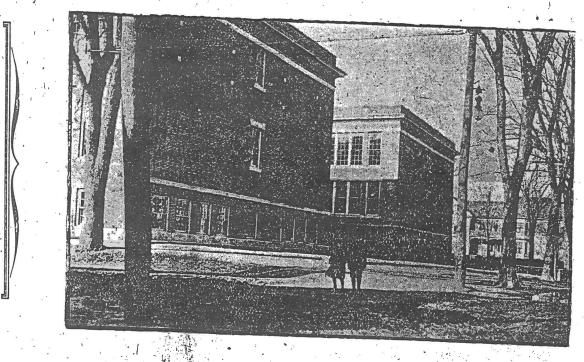
Designated by the left.

Designated by the letter E on the plan is shown the proposed site for a new hotel in Auburn. The location would be such as would be immediately accessible to the business section and would command a striking view of the falls and of the civic group. Auburn is already feeling the need of a modern, spacious and homelike hotel. Nothing would give greater impetus to the building up of a tourists trade and to increasing the activity of the business district. Union Station

One of the most important features of the civic group would be the proposed Union Station. Not only is a railroad station strictly speaking a public building but its location on the site suggested would make it most imposing as well as convenient of use. Nothing is more fitting than this; the front door to the city should be located amid an attractive environment. The stranger stepping from a railroad train into the midst of such a charming layout as contemplated could not fail to form a high regard for the place. This is a psychological element in advertising which should not go overlooked. There is little excuse for the railroad station to be the usual dreary, uninviting stopping off place

inviting stopping off place.

Necessary to the location of the station would be the carrying of a street and bridge across the river to Lewiston. This street as shown



WEBSTER SCHOOL, SHOWING LACK OF PLAYGROUND SPACE

would form a continuation of Turner Street, passing under the Maine Central tracks, curving around the base of the hill and crossing the Androscoggin on an attractive bridge just above the falls, finally making connection with the business district of Lewiston over Chapel Street widened. The construction of an attractive bridge at this point would do much to increase the beauty of the falls from the civic center and Court Street bridge, as it would hide the more commonplace bridge of the Maine Central railroad from these points.

All the elements of the proposed civic center are even at this time needed in Auburn. There should be no hesitation in going ahead with the project as fast as funds and opportunity will allow. It will mean an investment but it will prove a good one. Property values around will be enhanced and tax returns will in-

crease as has invariably been the case with similar undertakings elsewhere. The municipal buildings will have room for expansion and in the future the city will be saved the cost of securing new and increasingly costly sites as these structures become antiquated. An incentive will be given for leading the growth of the business district along Turner Street, a logical outlet from the present district.

From this civic center will radiate the future park and boulevard system. It will be the heart of the town, the town common replete with a significance of hospitalty and a feature somehow omitted from this New England community.

The Proposed River Treatment
It is proposed to clean up the river
banks both to the north and south of
the civic center and restore them to
public ownershp. Could the city
have been given a plan at the onset

unquestionably one feature of would have been a broad drive alor the river bank, but growing without a plan, in the everyone-for-himse way, it was but natural that the settler's instinct to build near water caused the river banks to build us with homes and the public denied rightful heritage. Cities everywher are striving to reclaim their rive fronts. In few can the work be carried out with as little cost as a Auburn. To the north of the city the riverbanks are practically—free—e improvements.

South of Court Street bridge a condition exists which constitutes a menace to the city as a fire/hazard and which makes ugly what other wise might be an attractive water front. The shacks standing between Miller Street and the river occupy ground which can hardly be expected to become valuable for business purposes. It is recommended that the

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city acquire this strip beginning at Court Street and extending at least as far south as Laurel Street, better yet to Newbury Street, ending with a promontory park at the junction of the two rivers. The parkway would carry a drive and walk connecting with Drummond, Elm and Academy Streets. South of Miller Street this would necessitate the cutting off of lots which now extend from Main Street to the river bank. These lots are, however, quite deep and the homes would be damaged in no great degree. The work will entail considerable expense. It is doubtful if the city is at present able to undertake it. Within the next ten years, however, the time may arrive when however, the time may arrive when the project could be put through.
Meanwhile the Council might well consider the passage of ordinance, condemning the unsightly shacks and. cause them to be torn down, while as fast as possible lots could be taken over by the city until the entire property is secured.

COMMUNITY PLAYGROUND

The site of the ball park on the
North River Road is recommended North River Road is recommended to be secured as a community playground. A plan is shown giving a proposed arrangement of athletic features. The site comprises about 30 acres and has for many years been a popular gathering place.

By doing away with the river road at this point and combining it with Center Street a large swamp area along the river is left free.

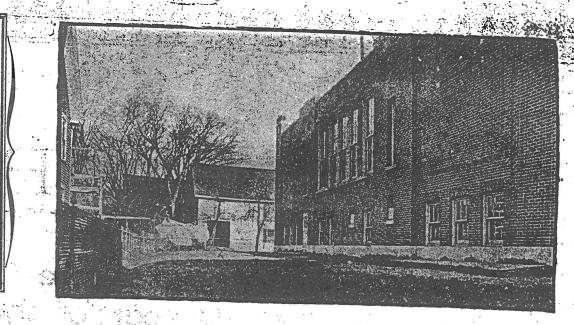
area along the river is left free. A portion of this could be dredged out, using the material to raise the This would provide a cove for a boat house and would give nearly four acres additional space.

A drive would be carried up the

hill and a parking place for auto-mobiles provided. Baseball, football and tennis fields are shown, together with outdoor athletic features and a field house.

The stream would be dammed, forming a pretty lagoon which would flood back to the northern end of the This lagoon would be crossed by foot bridges.

The park would merge with the



THE CHAMBERLAIN SCHOOL YARD. Showing Difficulty of Extension on A coount of improvements.

present ground of the Washburn School.

A swimming pool complete with dressing quarters is suggested to be placed at the north end of the tract.

THE RAVINE PARK

The RAVINE PARK
The advisability of securing the ravine extending through the city has engaged much attention. Obviously the land is worth little for other purposes and would lend itself well to a picture sque treatment. To secure and develop this first would secure and develop this tract would entail comparatively little expense. The stream would be dammed at intervals, forming a series of pools, and a drive would be carried along the base of the bluffs to connect with the base of the bluffs to connect with the curved street platting to the northwest.

MOUNTAIN PARK
Another tract of land of little
value for building purposes but ideal for a park is the small mountain west of the intersection of Lake and Davis Streets. From here a magnificent view of the city and country about may be obtained. To one who has witnessed a perfect sunset from this point, the idea that the place should be forever free to public

use, immediately presents itself.

The tract is readily accessible and its improvement with a drive, a lookout, water supply, benches and facilities for picnicing would necessitate but small cost.

SHORES OF THE LAKES

Around Auburn one might go on indefinitely selecting nice places for parks, but of all opportunities outside the city the shores of Lake Auburn and Taylor Pond afford the strongest arguments.

Encircling both these bodies of water should be a well-built drive-way, and as far as possible the land between the driveway and the water should be taken over for public use. This would in no wise detract from the cottage sites which would face the drive and the water. Around Lake Auburn the advantage of such an arrangement is obvious from a sanitary standpoint, for wherever private property extends to the water's edge, pollution is extremely difficult to guard against.

With Lake Auburn barred to bathers on account of the water being used for drinking purposes and with the river in its present condition. Taylor Pond becomes about the only Taylor Pond becomes about the only body of water convenient to Auburr fit for bathing purposes. The relation of this body of water with the scheme for general development of the city makes the project to secure the entire shore of the pond desirable. The park strip would vary in width and at the south end would widen into a spacious field which could be used for aviation. used for aviation.

TAYLOR POND PARKWAY

A parkway is shown extending along Taylor Brook from Taylor Pond to Washington Street. Drives would extend along each side of a narrow parking containing the water course.

NEIGHBORHOOD PARK AT MINOT AND WESTERN AVENUES

A small ravine park is suggested for this location. The land along the run is of little use for building sites and a small playground in this

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the present time.

A MUNICIPAL GOLF COURSE The growing interest in golf and he fact that a good municipal course ould doubtless aid in attracting ourists as well as serving the people of Auburn leads to proposing such 1 course in conjunction with this

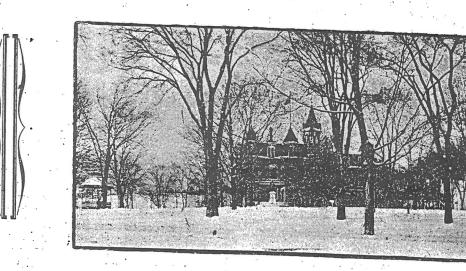
A number of excellent sites are evailable, that seeming to combine he most advantages being on land ying along the river near the upper iam. This land is high and rolling, iffording a wonderful view of the iver, and is sufficiently broken to produce natural hazards with good ocations for fairways and greens. it will be within short distance from he hotels.

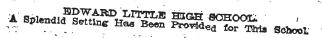
BOULEVARDS

A system of boulevards has been shown in connection with the plan. These when finally developed will nake Auburn renowned among cities. It is doubtful if any feature of the plan would do more to attract people o Auburn than such a system of fine irives along the river and around he lakes. Maine as a state has been ackward in building good roads. To pecome a leader among the cities of the state in this regard would thereore be to attain distinction which inquestionably would react to the inancial benest of the city:

A series of parked driveways has een laid out traversing and encirclng the city. Starting at the civic enter and going north, a boulevard would skirt the river as far as the olf course. From there it would ranch to the west, connecting with East Auburn and entirely encircling he lake. From Lake Auburn the rive would connect with and encircle aylor Pond, thence extending along Caylor Brook across Washington street and the Little Androscoggin nd north along the river to connect vith the south river parking. Thus ompletely encompassing the city.

A diagonal boulevard would be arried trough the ravine to connect vith Taylor Pond over Summer treet, while another would form a ontinuation of Gamage Avenue conecting also with Taylor Pond.





The South River Road, one of the most picturesque of Auburn's drives, should also be improved and incorporated in the boulevard scheme.

SCHOOL PARKS

Located at regular intervals throughout the newly plotted section are proposed sites for schools. These in nearly every case would occupy a full block. They are placed at least one block away from street car lines and are so situated as to be within a quarter of a mile distance from every home.

The size of these tracts would give opportunity to make of each a neighborhood park. The school building could then be designed for community purposes and thereafter there would be no need of duplicating the expense of these costly buildings in erecting special neighborhood centers as has been the case in many of our larger cities.

There would furthermore be ample room for enlarging the school

buildings as population increased.
Placing these units away from future car lines is done as a precaution against danger to pupils due not only to cars but to the heavy traffic which is likely to obtain on these

thoroughfares. The schools would also be protected from the noise and would not take up the more valuable property along these routes.

. In all there are designated fortyone new school sites comprising one hundred seventy-seven acres or an average of 4.3 acres each. These with the nine present schools would give fifty schools which, at three hundred pupils each, would accommodate fifteen thousand pupils, expected in a city of seventy-five thousand population.

The ratio of 4.3 acres to each school although large as compared with the sites on which Auburn's present schools are built is exceedingly conservative. While in most cities new schools are not built on areas of less than a full city block, in many instances from ten to twenty acres each has been used for school grounds.

PROPOSED ENLARGEMENT OF PRESENT SCHOOL SITES

Many of Auburn's present school sites are too small to permit of suitable play space or to permit room for extension to the buildings.

Authorities agree that at least one hundred square feet for each child

is necessary for proper out-of-door school work. This makes no provision for using the school yards as neighborhood parks or doing other than to provide for organized play and drills.

The following table shows the deficiency of a number of school sites in meeting this standard.

	- :	reas		e se
	Attendance 1918	Percentage condance incomments in the past 11	Cotal area	vallable oer child
Webster	620	9	39500	4.¤ 23 an m
Lincoln ,	315	2	19800	
Wilson	183.	62	39200	
Franklin	196	37	12000	185 sq. ft.
Washburn	149	46	48500	- 2
Park Hill	77	43	10000	302 sq. ft.
Merrill	125	69		97 sq. ft.
Chamberlain	174		37600	258 sq. ft.
	1(4	83	22950	77 sq. ft.

Thus far the school yards have not been outlitted with playground apparatus and no vacation work in playground activities carried on Whenever this is undertaken the lack of space will prove a serious handicap. In the case of the High School

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COME IN AND ASK QUESTIONS

ting for the building. A playcound in connection with a high mool is not so important as in the sec of a grade school. However, it desirable that somewhere in the ity a well developed athletic field may be had for the use of the older may be ad for the use of the older may be ad for the use of the older may be had for the use of the older may be had for the use of the older may be had for the use of the older may be had for the use of the older may be had for the use of the older may be had for the use of the older may be had for the use of the older may be had for the use of the older may be had for the use of the older may be had for the use of the older may be had for the use of the older

Vebster School

At the Webster School a small block has been practically covered by the new building, leaving no space for play. With the large attendance, over six hundred, this presents a serious problem. The streets abutting are narrow and being near the center of the town are subject to frequent traffic, making them unsafe for children. Could the building have been placed a block to the north and a portion of the ravine land taken for play purposes, a much better arrangement could have been obtained. As it is there seems no better

As it is there seems no better way than to acquire this block and clear it of houses. This would give sufficient play ground which in time could connect with the purposed ravine park. Another way would be to close Oak Street and acquire part

of the block beyond. Lincoln School

The present site gives but fortysix feet of play space for each child. It is recommended that if the full block cannot be secured the south line of the property be extended through to Fifth Street. A whole block of this size is none too large for the accommodation of a modern school of 200 attendance.

Wilson School

By taking four more lots along

Roak Street a full block could be secured. The Lincoln and Wilson schools are placed somewhat too close together for good spacing.

Franklin School

The grounds of the Franklin School are not only too small but are not conveniently accessible from various points of the district which it serves.

We recommend the taking of lots as shown, thus carrying the grounds through to School Street and enlarging to the southeast along Pine Street

Washburn School

These grounds are of ample size and would be further enlarged by the proposed park.

Park Hill School

We recommend doubling the present site by acquiring land as shown along Fourth Avenue.

Merrill School

Playground area at this school is ample for the time being. The district is sparsely settled and the school is small in attendance. The ground would be insufficient for a school of three hundred which may be looked for in time. There is now opportunity to secure vacant land contiguous to the site. Chamberlain School

The school board has purchased an improved lot immediately north of the original site. With this cleared, a play space of one hundred thirty-four square feet per child will be secured. This extra room is much needed.

School Park

A suggested arrangement for a school park is shown on land bounded by Highland, Lake, Hillcrest and Shepley Streets. This is an area of

approximately fifteen acres, not unusual in size for modern school grounds. The location would meet the need of a school in this section of the city. The plan calls for out-of-door playgrounds, gardens and features for a community park. A fine stand of native pine is now on the ground and should be preserved.

WAYS AND MEANS OF CARRY-ING OUT THE PLAN

In the new charter granted to the city of Auburn in 1917, provision is made for the appointment and duties of a city planning board. It is provided therein that "The Board shall keepitself posted in the progress, of city planning in this and other. countries and shall make recom-mendation for the improvement of the plan of the city with view to the present and future movement of traffic, the convenience, health, recreation, general welfare and other needs of the city, dependent on the city plan; to consider and report upon the designs and their relation to the city plan of all new public ways, lands, buildings, bridges, and all other public places and structures, of additions to and alterations in those already existing, and of the layout and plotting of new sub-divisions of the city."

The act further provides that the Council may at any time, call upon the Board to report with recommendations and that the Board may report of its own volition on matters which in the opinion of either body affect the plan of the city. Matters referred to the Board by the Council shall be acted upon within thirty

days unless a longer period is specified to the Council. An annual report on the Board's activities shall be rendered to the Council.

Other provisions are that the city engineer shall serve as chief engineer to the Planning Board; that the Planning Board shall constitute the Board of Park Commissioners and that the Board of Health shall advise the Planning Board of improvements which in its opinion would aid the healthfulness of the city.

It will be seen therefore that the powers of the Planning Board under the law are purely advisory and there is no compulsion whatever in regard to the carrying out of recommendations by the City Council. Again as has been stated should the Council elect to carry out by ordinance some of the more sweeping and important recommendations which could be made in order to render the plan comprehensive, no state laws would be found in force at this time making such ordinances effective.

The only hope therefore in inaugurating and carrying out such a far reaching scheme as is herein presented lies in obtaining popular approval. Generally speaking, whenever a city is in accord for a public improvement, ways and means will be found to put it through. The great undertaking which immediately presents itself therefore is in properly introducing the plan to the people. A campaign of education must be carried out skillfully and persistently, if the popular appreciation and enthusiasm is to be aroused and kept alive.

The carrying out of a city plan-

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GOODKOWSKY, Prop.

application of the plan to the cround is a difficult and multiplex adertaking. Many projects are conemplated, some of which are needed now and some of which should not be attempted for years to come. The value of the plan, however, is chiefly in showing how these improvements co-ordinate, and in steering the city clear of mistakes in so arranging improvements first to be built that they will not interfere with equally important projects coming afterwards.

The city plan is so comprehensive and so far reaching that it cannot be officially adopted in the sense that the Council or any other public body shall pass upon it as final. The great danger is that although the present Council may endeaver to follow out the plan, a succeeding Council will partially or entirely lose sight of it.

Councils being directly responsible to the will of the people, it is necessary that the City Planning Commission go directly to the root of authority—the people. In order to do this effectively, certain machinery is needed. A Commission of three is hardly large enough to undertake such a campaign of popular education. While it may not be necessary to enlarge the official Plan Commission, we would suggest that it be supplemented by a citizens committee of twenty-five or possibly fifty members of a personnel that would be thoroughly representative. This committee should organize and departmentize its work. The press, the schools and the pulpit may all be used to advantage in making the people of the city cognizant of the meaning and value of the city plan. Lectures before various organizations, special bulletins and leaflets explaining the application of parts of the plan as time comes for their consideration, would be of value.

Where this procedure has been carried out, and the plan has been kept free from political interference, most progress has taken place. As a matter of fact in few instances where city administrations have taken the initiative of city planning has important progress resulted. The same is true in cases where the work

has been engineered by official city plan commissions, the reason obviously being that the people are apprehensive that projects fostered by a political board are prompted by ulterior motives. A case in point is the lack of city planning progress which has taken place in the cities of Massachusetts. In that state a law makes mandatory city planning commissions in all cities of over ten thousand population. At the present writing no city in Massachusetts has a comprehensive city plan.

On the other hand, the city plan of Chicago, conceived and paid for by a commercial club of that city, has been so uniformly adopted by public sentiment that rarely can a public improvement be suggested that people do not at once ask, "Is it in accord with our city plan?" The Chicago plan although unofficial, being almost entirely unsupported by state laws or city ordinances and in itself superficial in character, is today guiding the expenditure of millions of dollars in reconstruction projects.

By far the most important part of the Auburn plan is that which has to do with guidance rather than with remodeling. The logical extension of streets year by year, following out the guide therein set forth, is by far the most important element of the plan, for in time to come, the city will thereby automatically become convenient to use and attractive to look upon. In all probability, the following out of this portion of the plan can be brought about without serious trouble.

The Council can, by ordinance, adopt this layout and refuse to make public improvements on streets not in accordance therewith. It is doubtful, however, that private property owners will take exceptions to the plan, inasmuch as it shows a logical way to improve their holdings and does away with the necessity of studying out a method of plotting. Most property owners are glad to adopt any scheme which seems to be in conformity with the general welfare of the city.

In the matter of industrial development and the working out of the factory district, the enlistment of the

services of the Chamber of Commerce will be especially necessary. These matters will have to be handled largely by private capital, assumably with the aid of the city government.

Better housing is a matter to be handled by the city ordinance with the aid of special state laws which may be enacted.

In the matter of railroad rearrangement, the working out of the various projects suggested will have to depend largely upon their economical advantage to the railroads and upon the diplomacy and energetic action of the citizens committee, the City Council, the Chamber of Commerce and other such bodies. The same holds true of improvements and extensions to the car lines. In the matter of installing parks, the making of various corrections to streets, the acquiring of school sites, etc., the city has, of course, necessary powers, the only limitations being the available bonding capacity of the city and the consent of the electors. The balance of Auburn's bonding power is not large, the amount being approximately \$225,000. Money is needed for paving, lighting of streets and for better sewerage. The city therefore cannot afford to be extravagant or to attempt projects which can be done without. A city must practice economy and forbearance like the individual. It cannot, however, afford to omit suitable provision for the future in such matters as pertain to the acquisition of school and park sites. Especially should it act in such matters to prevent the loss due to the advancement in the price of real estate.

Lastly it should not be considered that this plan is infallible or a panacea for all the city's structural defects. Modifications will doubtless be made in the plan to the city's advantage. It is not to be expected that all the recommendations cannot be improved upon or is it to be expected that all the projects can be carried out.

If the plan will prevent the city from making but a single mistake of consequence, the labor and money expended therefor will prove a good investment.

REPORT ACCOMPANYING DE-LIVERY OF PLANS TO CITY COUNCIL

TO THE AUBURN CITY COUNCIL: Your contract with Myron H. West for a comprehensive city plan expires with the completion of the plan.

We herewith present to you a full set of maps, prints and drawings, to-gether with the complete city plan report.

This plan was produced at the expense of Auburn's tax payers and we recommend that it be used as their property for their benefit. We do not recommend spending any more money under this present administra-tion for this plan. It is true that the plan should be published in book form and we hope to see this done, at some future time. With your permission we believe we can arrange through the Chamber of Commerce to give the plan a reasonable amount of publicity so that it may be thoroughly understood and appreciated by the general cublic. We favor united effort to-ward voluntary adoption of those features of the plan which are applicable to our immediate needs and can be brought about without expense to the city. We believe that the platting of new sub-divisions should be approved by the planning board and their engineer.

We would recommend immediate passage of such ordinances as the city council may properly pass for the control of new plotting and new development. We would recommend ordinances revising and strengthening our building code. We recommend ordinances protecting, so far as is in the power of the city, the entire shore of Lake Auburn as shown in Lake Auburn Boulevard and park plan. We further recommend occasional conferences between the various city boards to the end that their several activities may harmonize with the general scheme and policy of the

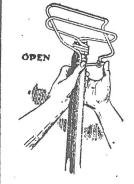
city plan.

Very respectfully, FRANK W. WINTER, Chairman of C. P. B.

November, 1919, Auburn, Me. Read and accepted and incorporated in city records:

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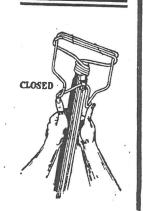
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