

71 x.

1926

83
Agil Group

VETERINARY MEDICINE BUILDINGS

December, 1926.

OREGON AGRICULTURAL COLLEGE

SCHOOL OF AGRICULTURE AND EXPERIMENT STATION

CORVALLIS

Dear Dean Cordley:

The Veterinary Medicine main building has a ground floor area of (53 by 123) or 6519 square feet. It is of three stories which gives 195,570 cubic feet if 10 foot ceilings are allowed. This at 20 cents per cubic foot gives us an estimated cost of about \$40,000.

The Clinics and Anatomy building has a ground floor area of (42 by 90) or 3780 square feet. It is of two stories and probably must average more than 20 feet in height which will require 75,000 or 80,000 cubic feet of space. If the unit cost is taken at 15cents per cubic foot, the estimated cost will be around \$11,000.

The Dairy barn has a ground floor area of (46 by 100) or 4,600 square feet. Including the milk room the total ground floor area is 4928 square feet. At \$2.00 per square foot this building would cost \$10,000.

The barn to accomodate the horses, sheep, and small animals has a ground area of (42 by 90) or 3780 square feet of floor area. At \$2.00 per square foot this building is estimated at \$7,500.

Summarizing the Veterinary group of buildings, the main building is estimated at \$40,000 and the Clinic and Anatomy building at \$11,000 and the two barns totalling \$17,500, you have \$68,500 as necessary to care for the construction.

W. J. Silvers

OREGON AGRICULTURAL COLLEGE
SCHOOL OF AGRICULTURE AND EXPERIMENT STATION

CORVALLIS

December 8, 1926.

Dean A. B. Cordley,
Campus.

My dear Dean Cordley:

I am submitting herewith plans for the veterinary building as requested by you some time ago.

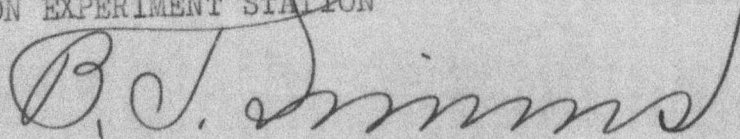
Since the service road which is to pass along behind the group of agricultural buildings has not yet been definitely located, it is not possible for me to show the location of these buildings in a sketch. If this road is to be fairly close to the west side of the agricultural buildings it will probably be advisable to place the three west buildings of the group of four on the west side of the road. I have not shown in these sketches the manure pit, nor have I shown any of the corrals. Professor Skelton is investigating the sewage connection. ^{Dr. Rawland} Professor Phillips is making a study of the heating of the building. Nolan is making a study of a gas plant which I understand would include this building with all the others on the campus.

The office, classroom and laboratory building is planned to accommodate a staff of seven with two clerks and technicians. Our staff consists at the present time of four veterinarians with one technician. The poultry association is making a definite request at the next legislature to increase the appropriation so that we can employ another staff member. The building is so arranged that wings can be added when the department has increased to such a size that it cannot be accommodated in this structure.

Very respectfully yours,

OREGON EXPERIMENT STATION

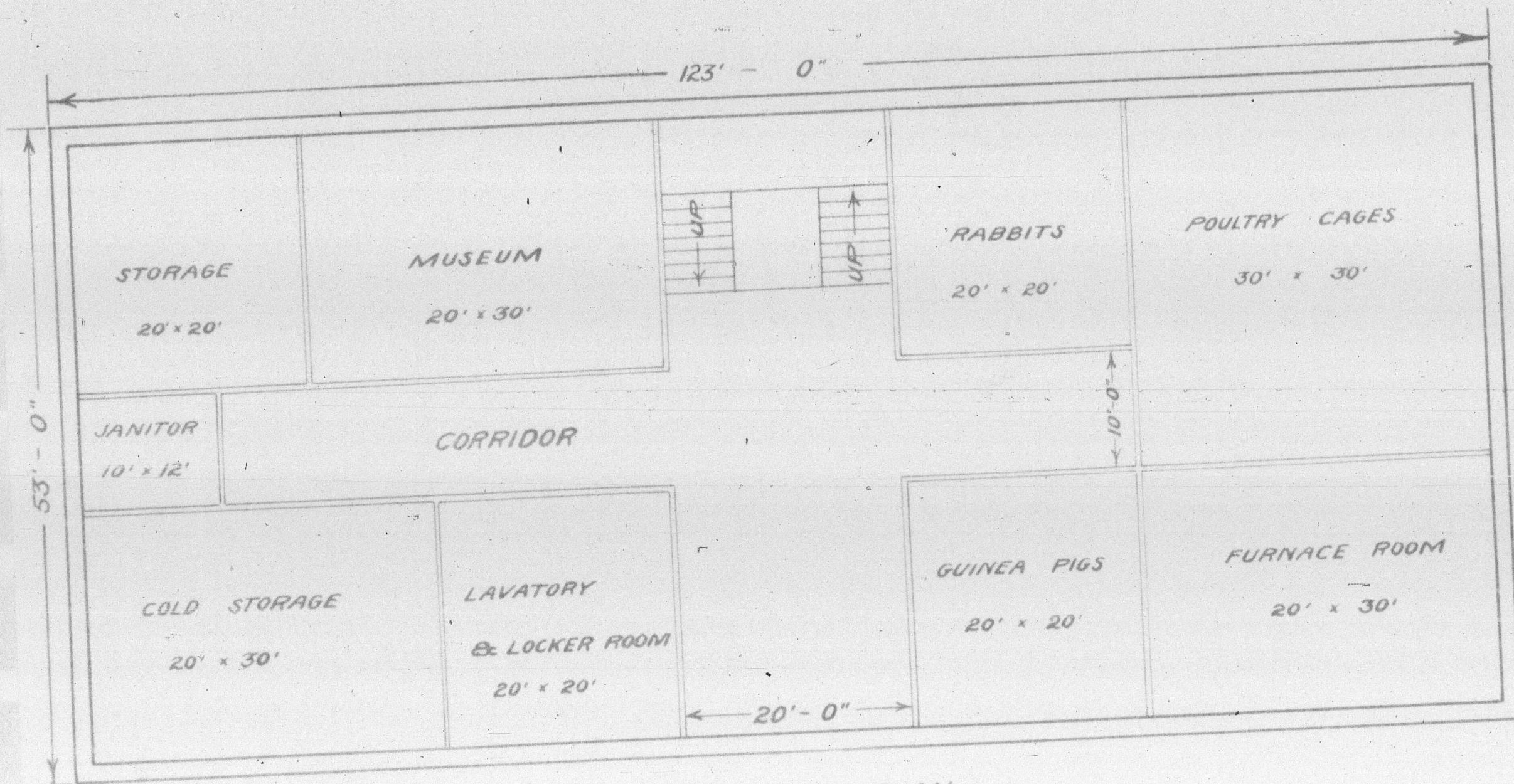
By -



Professor of Veterinary Medicine.

BTSEH

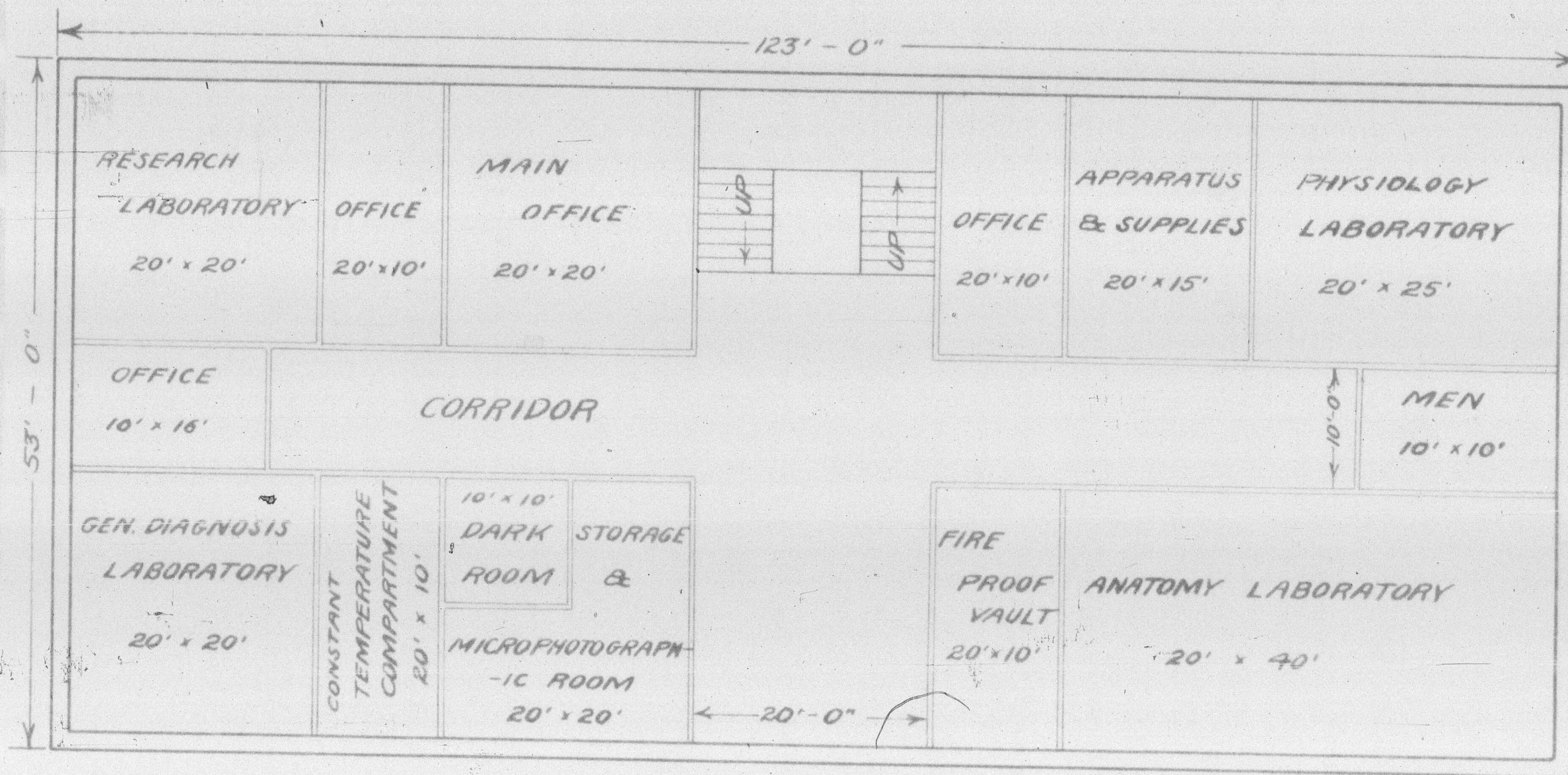
C



BASEMENT PLAN

*To location of this Building
on plan see Building number 9*

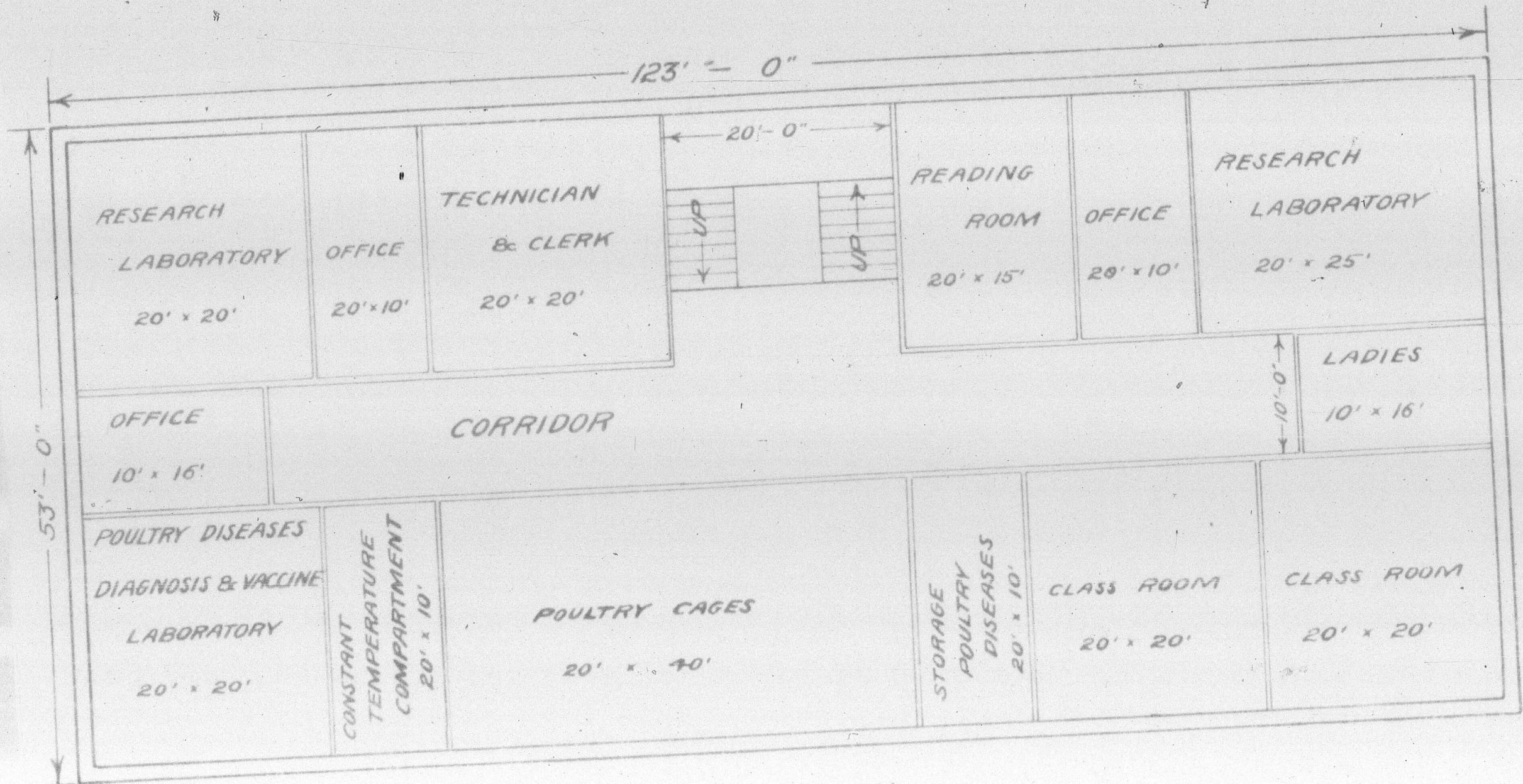
VETERINARY BUILDING
OREGON STATE AGRI. COLLEGE
CORVALLIS, ORE.
SCALE 1" = 12'-0" OCT. 27, 1926



FIRST FLOOR PLAN

*In location of the Building
on plan see Building No. 111*

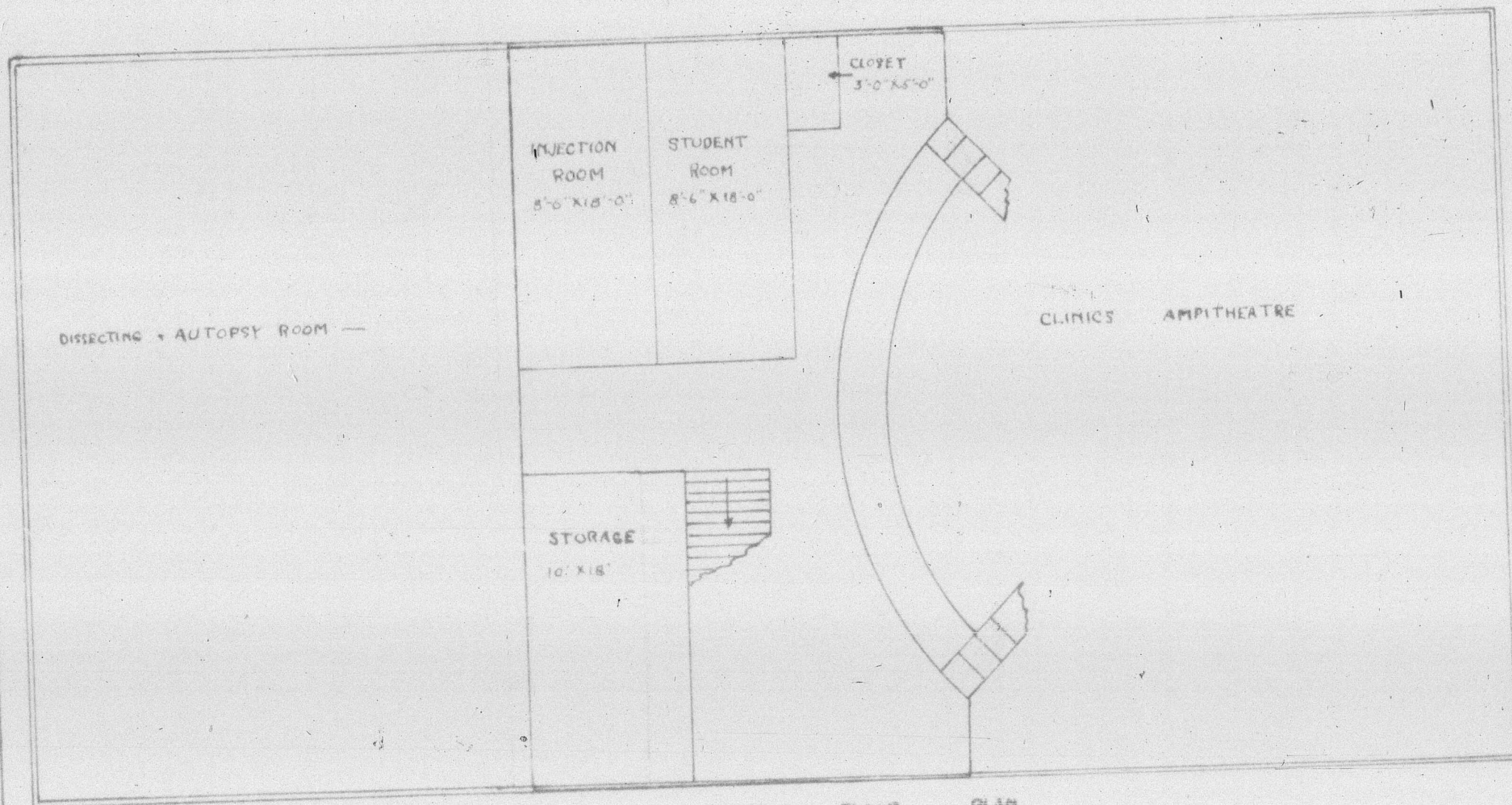
VETERINARY BUILDING
OREGON STATE AGRI. COLLEGE
CORVALLIS, ORE.
SCALE 1"=12'-0" OCT 27, 1926



SECOND FLOOR PLAN

*For location of this Building
on plan see Building
number 9*

VETERINARY BUILDING
OREGON STATE AGRI. COLLEGE
CORVALLIS, ORE.
SCALE 1"=12'-0" OCT. 27, 1926



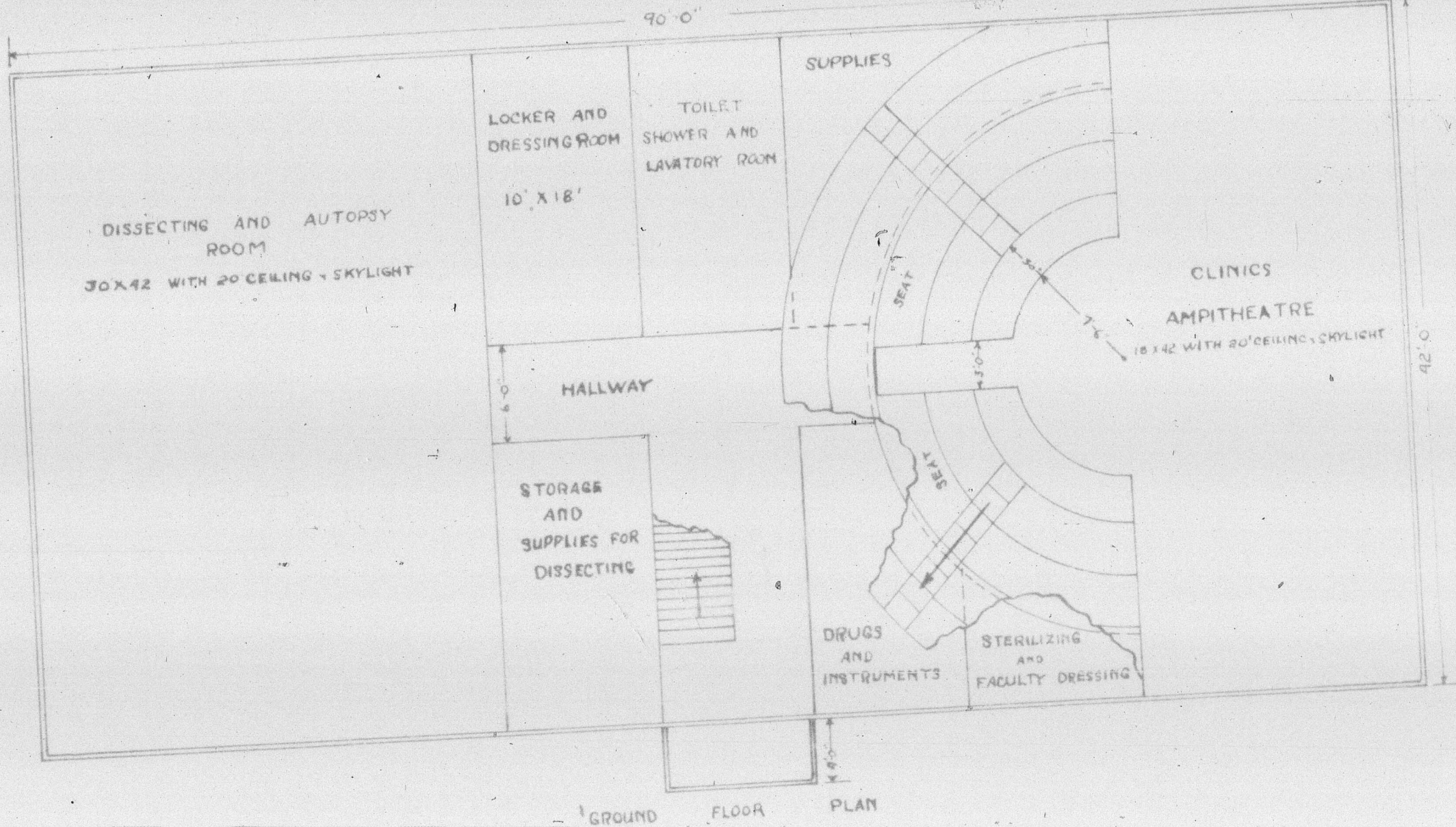
SECOND FLOOR PLAN

VETERINARY MEDICINE
CLINICS AND ANATOMY BLD.

OREGON STATE AGRICULTURAL COLLEGE — DATE DEC 1-26

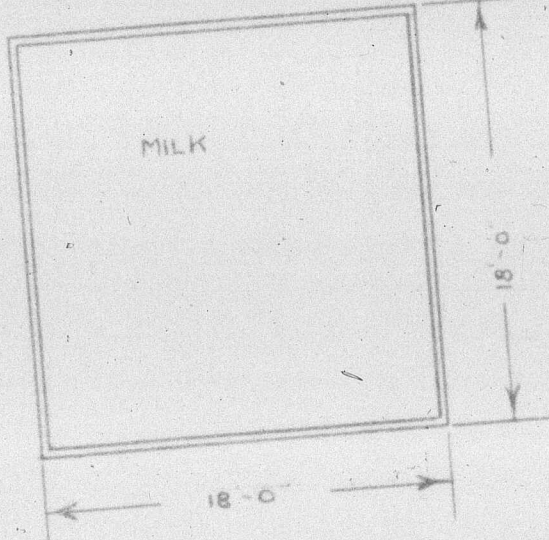
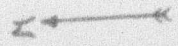
SCALE — 1/10" = 1'

*For location of this
Building on plan
See Building Number 9*



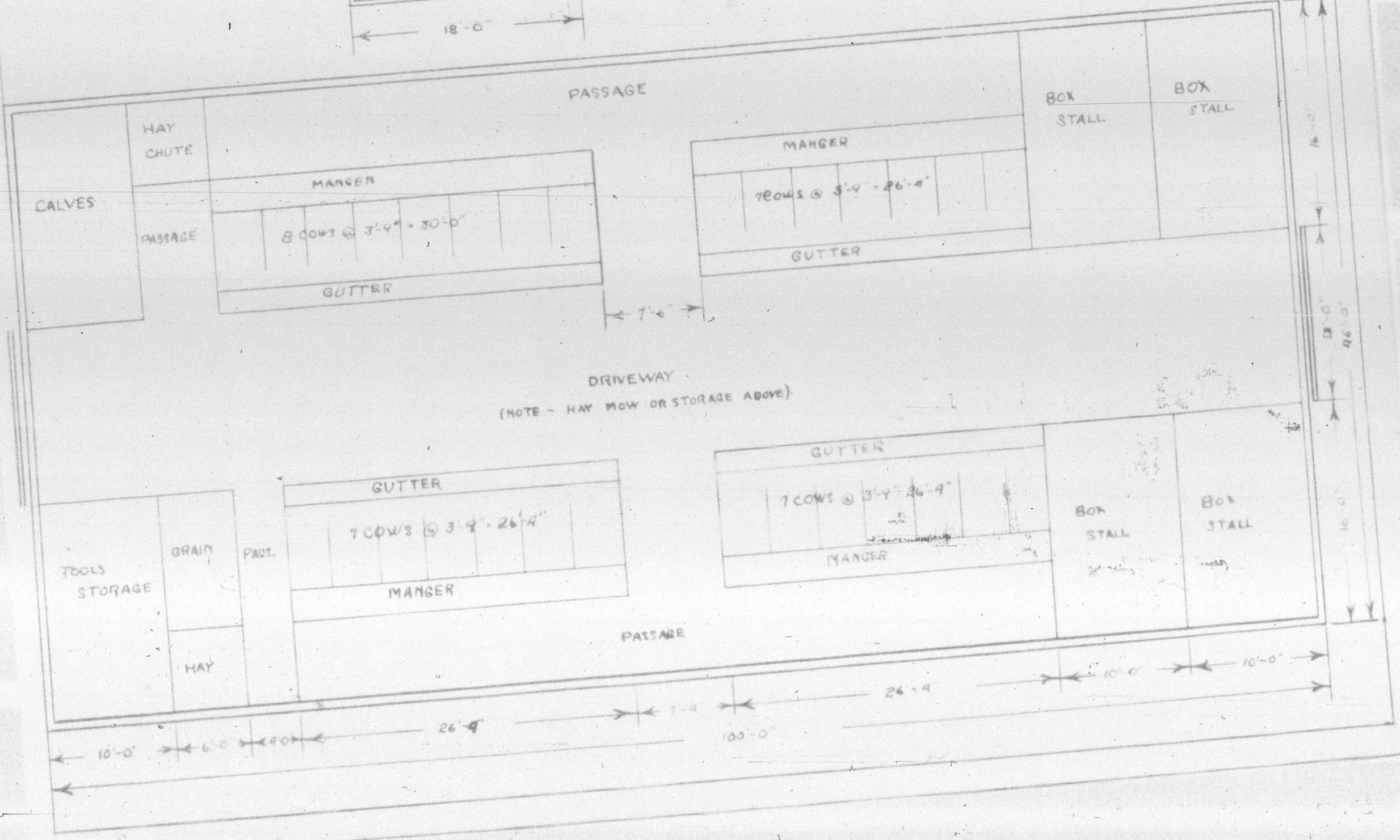
VETERINARY MEDICINE
CLINICS AND ANATOMY BLD.
OREGON STATE AGRICULTURAL COLLEGE — DATE DEC. 1-26
SCALE — 1/10" = 1'

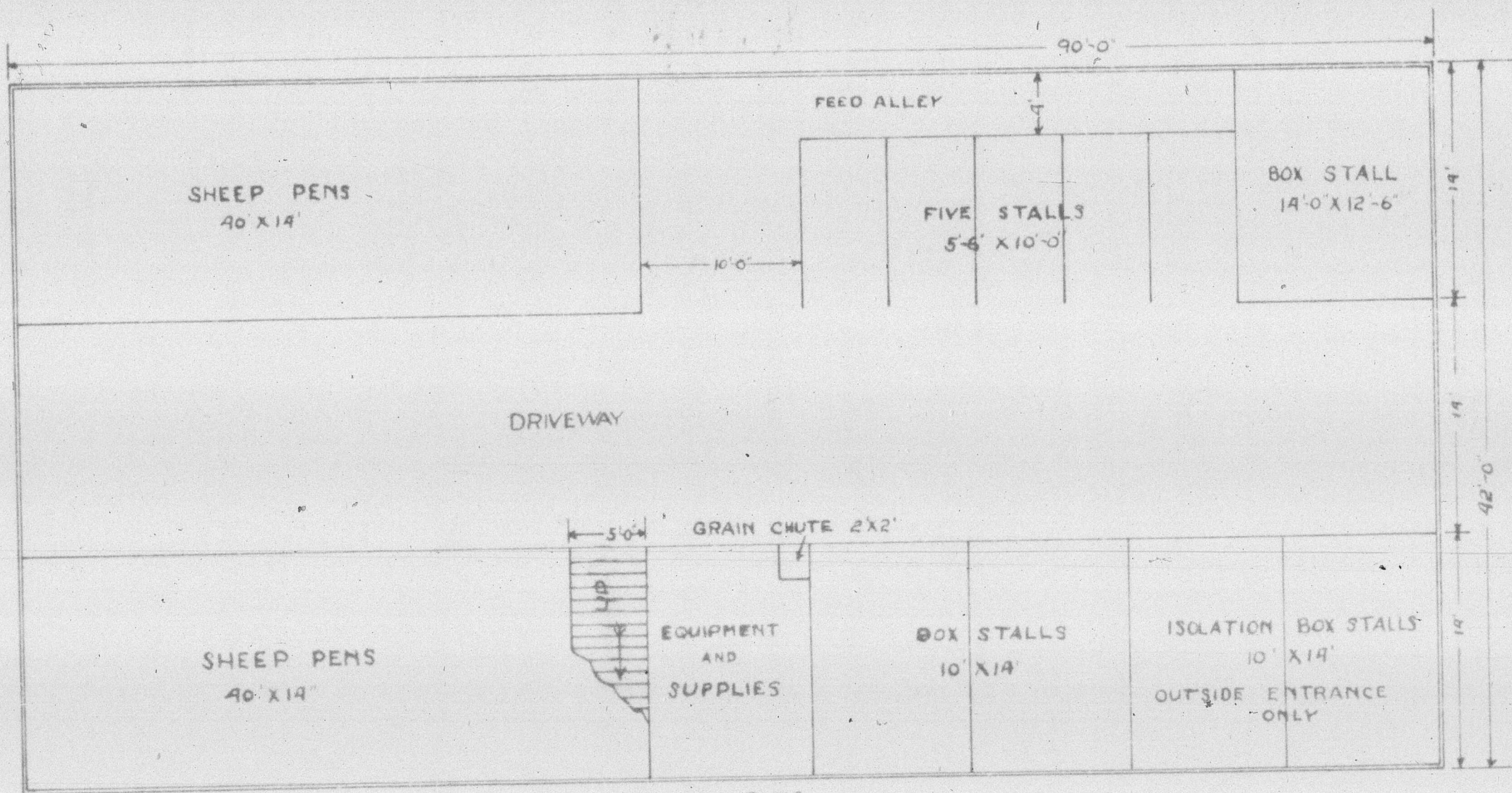
*To location of the building
on plan see Building number 9*



DAIRY BARN
VETERINARY MEDICINE DEPT.
OREGON STATE AGRICULTURAL COLLEGE -
OSC 1-26 SCALE - 1/10" = 1'

*Location of this building
on plan see Building Number 10*





GROUND FLOOR
MOW FOR HAY - AND SMALL ANIMAL BREEDING CAGES - UP STAIRS

HORSE, SHEEP, AND SMALL ANIMAL BARN —

*In location of this building
see plan of building number 10*

VETERINARY MEDICINE

OREGON STATE AGRICULTURAL COLLEGE

DATE - DEC 1-26

SCALE 1/10" = 1'



83
Agri'l Group

MADE IN U.S.A.
BOND
HAMMILL

HEATING FARM BUILDING GROUP

Dec., 1926.

OREGON STATE AGRICULTURAL COLLEGE

W. J. KERR, PRESIDENT

SCHOOL OF ENGINEERING AND MECHANIC ARTS

G. A. COVELL, DEAN

DEPARTMENT OF MECHANICAL ENGINEERING

CORVALLIS, OREGON

Ore. Agricul. College
RECEIVED
DEC 6 1926
Office of President

J. R. DUPRIEST
M. C. PHILLIPS
W. H. MARTIN
R. B. BOALS

MORRIS WENK
EARL C. WILLEY
A. C. COONRADT
R. E. SUMMERS
WM. H. PAUL

December 6, 1926.

Mr. W. A. Jensen,
Executive Secretary,
Campus.

Dear Sir:

Estimate of cost extending heating to the proposed
buildings west of 30th street.

In preparing this estimate I have obtained from the
department head interested the following buildings:

<i>Need Tub - 1200 ft Rad.</i>	Veterinary Bldg. 123'x53' Three floors	3600 ft. Rad.
<i>Paving 2600 "</i>	Clinic and Dissecting Bldg. 40'x80'x20'	1200 " "
	Agricultural Engineering 184'x64', two floors,	
	two one story wings 100'x40'	4800 " "
	Dairy and Animal Husbandry Bldg. 184'x64'	
	three floors, Creamery wing 100'x64'	5600 " "
	Stock Judging Pavilion	800 " "
	TOTAL ESTIMATED RADIATION	16,000 sq.ft.
		19,800 " "

1. A steam conduit running north and south connect-
ing the above buildings, 1400 ft. at \$7.00 per ft. = \$9800.
This amount will enter into the cost of all estimates connect-
ing to present plant or auxiliary plant, but will not be re-
quired if boilers are placed in each building.

2. Construction of steam main west from south heat-
ing plant, 2400 ft. at \$7.00 per ft. = \$16,800; pump for
return \$800; total for conduit, \$17,600. Add to this (1)
\$9,800. gives total cost steam main west to Veterinary Bldg.
then north 1400 ft. to Dairy Bldg. \$27,400.

3. Extend main west from Snell Hall 1600 ft. at
\$5.50 per ft. = \$8,800; pump for return \$800; a 2-1/2" galva-
nized pipe return east from Veterinary Bldg. to plant 2400 ft.
at \$1.25 per ft. = \$3,000; gives \$12,600 plus item (1) \$9800.
total cost \$22,400.

4. Auxiliary plant west of mall 200 H.P. boiler
at \$50. per H.P. = \$10,000; Building and chimney \$4,000; Oil
equipment \$2000; total cost \$25,800.

Mr. W. A. Jensen.
12-6-26.
-2.

5. With separate boilers for each of the buildings
with cord wood fuel:

Veterinary Building	\$1870.
Clinic & Dissecting Bldg.	830.
Dairy & Animal Husb. Bldg.	2840.
Stock Pavilion	600.

Heat Lab	830	
Pumphouse	1400	
		\$8600.
If oil fuel is wanted add \$1000 for each Bldg.		2230
		\$13600.
TOTAL WITH OIL FUEL		<u>17,830</u>

Drainage for this part of the campus must be provided
if heat conduits are installed. This cost is not included in
this estimate.

The boiler capacity at the plant must be increased
if any radiation is added. It is unwise to install less than
500 H.P. boiler, which will cost \$40.00 per H.P. installed,
total \$20,000. Only 160 H.P. will be required for these
buildings.

If the condensation is turned to a sewer at the
buildings, thus saving the cost of return pump and return line
\$3800 can be deducted from estimates number 2 and 3. The cost
of this water would amount to \$10.00 a month, approximately
\$100 a school year. This may be preferable as it is less
than 3% of \$3800 required for return line.

Adding a boiler to plant, extending steam line from
Snell Hall, wasting the condensation to the sewer, would cost
more than boilers in each building, but operation cost would
be less.

Respectfully submitted,

M. C. Phillips
M. C. Phillips
Superintendent of Heating.

MCP:ELT

ESTIMATES OF COSTS
AGRICULTURAL BUILDINGS DEVELOPMENT PROJECTS
December, 1926.

HEATING

The figures herewith anticipate heating for the following buildings in the Agricultural Group:

Main Veterinary Building	3,600 feet radiation
Veterinary Clinic or Anatomy Building	1,200 feet radiation
Agricultural Engineering Building, including two one-story wings,	4,800 feet radiation
Dairy and Animal Husbandry Bldg., three floors and creamery wing	5,600 feet radiation
Seed Laboratory Building	1,200 feet radiation
Poultry Building	2,600 feet radiation
Stock Judging Pavilion	800 feet radiation

=====

Proposition No. 1 -

This proposition is recommended by Superintendent Phillips as most desirable. Proposition is to connect farm group of buildings to main heating plant by extension of steam main directly west from Margaret Snell Hall (1600 feet) and connect with lateral line running north and south beyond 30th street for Agricultural Mall, the lateral line serving the different individual buildings:

Steam main west from Snell Hall, 1600 feet at \$5.50 per foot	\$8,800
North and south lateral conduit, 1500 feet at \$7.00 per foot	10,500
	<u>\$19,300</u>

NOTE: It is proposed to drain heating mains into sewer and eliminate the necessity of return pump and conduit, which would cost approximately \$3,800. Cost of this water would represent about \$10 per month, or not to exceed \$100 a year.

Proposition No. 2-

To connect farm group of buildings to main heating plant by an extension of steam main directly west from heating plant (2400 feet) and connect with conduit running north and south beyond 30th street, 1400 feet:

East and west steam main line, 2400 feet at \$7.00 per foot	16,800
North and south conduit 1500 feet at \$7.00 per foot	10,500
	<u>\$27,300</u>

NOTE: As with proposition No. 1, Phillips proposes to drain main into sewer, avoiding a \$3800 cost for return line and pump. Cost of this water would represent about \$10 per month, or not to exceed \$100 per year.

Proposition No. 3-

To construct an auxiliary plant west of the 30th street Mall, with a		
200 horsepower boiler, at \$50 per h.p.	\$10,000	
Building and Chimney	4,000	
Oil equipment	2,000	
North and south conduit, 1500 feet, at \$7.00 per foot	10,500	\$26,500

Proposition No. 4-

To install separate boiler in each building to burn cordwood:		
Veterinary Main Building	\$ 1,870	
Veterinary Clinic or Anatomy Building	830	
Agricultural Engineering Building	2,460	
Dairy Building	2,840	
Seed Laboratory	830	
Poultry Building	1,400	
Stock Judging Pavilion	600	\$10,830

NOTE: If oil fuel used in place of wood, add \$1,000 to each boiler.

CENTRAL PLANT BOILER CAPACITY-

Professor Phillips says: "Boiler capacity at the plant must be increased if any radiation is added. It is unwise to install less than a 500 h.p. boiler, which will cost \$40 per h.p. installed, or a total of \$20,000. Only 160 h.p. will be required for these Agricultural buildings.

-----oOo-----

