

STATE OF MICHIGAN



JAMES J. BLANCHARD, Governor

DEPARTMENT OF PUBLIC HEALTH

3500 N. LOGAN  
P.O. BOX 30035, LANSING, MICHIGAN 48909  
GLORIA R. SMITH, Ph.D., M.P.H., F.A.A.N., Director

October 2, 1986

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'86 OCT 16 P1:07

U.S. NRC  
LIC. FILE MONT. BLANCHARD

Materials Licensing Section  
U.S. Nuclear Regulatory Commission  
Region III  
700 Roosevelt Road  
Glen Ellyn, IL 60137

Dear Sir:

The State of Michigan Department of Public Health wishes to make changes in its NRC License Number 21-05199-03.

Because of reorganization of the Department's laboratories, turnover in personnel, new technologies, and laboratory responsibilities, I would like to update and amend License Number 21-05199-03. Enclosed are the changes item by item to be amended.

Thank you for your consideration. If more information is required please call Dr. L.J. Charamella, Radiation Protection Supervisor, at 517-335-9193 (AM) or 517-335-8110 (PM).

Sincerely yours,

George R. Anderson, D.V.M.  
Deputy Chief for Laboratories  
Bureau of Laboratory and Epidemiological  
Services

8704230491 861229  
REG3 LIC30  
21-05199-03 PDR

GRA:Cs  
Enclosures  
PC: Dr. Charamella

RECEIVED BY LFMS	
Date	10/14/86
Log	Oct 15
By	CA
Date Completed	10/17/86

CONTROL NO. 82275

FILE EXEMPT 1

EP 170.11(a)(9)  
adding R&D  
to EX 3M  
which would  
if necessary

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REGION III

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

License Number 21-05199-03

10/86

CHANGE TO:

1. Bureau of Laboratory and Epidemiological Services from Bureau of Disease Control and Laboratory Service
6. Add Cobalt 57 as L
7. Add Cobalt 57 under chemical and/or physical form to L any
8. Add Cobalt 57 maximum amount L 2 millicuries  
K under maximum amount - typographical error - remove one 15  
increase Hydrogen-3 A from 11.5 millicuries to 30 millicuries.
9. Authorized use:  
Add L to be used for laboratory research and development and in vitro testing.  
A through G - change to read: to be used for laboratory research and development and in vitro testing.
- 12a Remove Harold A. Price, Ph.D. All  
" Stephen S. Kuwahara, Ph.D. All  
" Delia Budzko, Ph.D. All  
  
Change Chun-Nan Shih, Ph.D. usage to All  
  
Add Louis E. Guskey, Ph.D. All  
Jeffrey Massey All  
Lawrence Warren All  
Michael O'Keefe All  
Edwin Perry All  
Richard Scheel, Ph.D. All

Radioisotope experience of new additions included:

Dr. Louis E. Guskey - Experience with radioisotopes spans a 20-year period and includes  $^3\text{H}$ ,  $^{14}\text{C}$  and  $^{35}\text{S}$ . These isotopes were used for radiotracer studies during virus directed protein and nucleic acid synthesis and were analyzed by polyacrylamide gel electrophoresis, autoradiography or macro-molecule capture on glass fiber filters.

Jeffrey Massey - Experience includes use of  $^{125}\text{I}$ ,  $^{32}\text{P}$ , and  $^3\text{H}$  used in radioimmune assays, oligonucleotide mapping (autoradiography) and reverse transcriptase assays respectively.

Mr. Warren, Mr. O'Keefe, Mr. Perry and Dr. Scheel have extensive experience with gas chromatographs.

10/86

The State of Michigan is now testing human serum for antibodies to HTLVIII/LAV retrovirus. This virus causes the acquire immune deficiency syndrome (AIDS). Methods are available to isolate this virus from human peripheral blood lymphocytes, and its presence is demonstrated by detection of reverse transcriptase which incorporates  $^3\text{H}$  thymidine into DNA.

This work will be performed in the Virology Laboratory, Building 5, 2nd floor, south end. Enclosed is a floor plan of this building and the specific area is noted. The area was recently renovated to insure limited access.

Enclosed is a Michigan Department of Health plot plan indicating buildings containing laboratories where radioisotopes are being used.

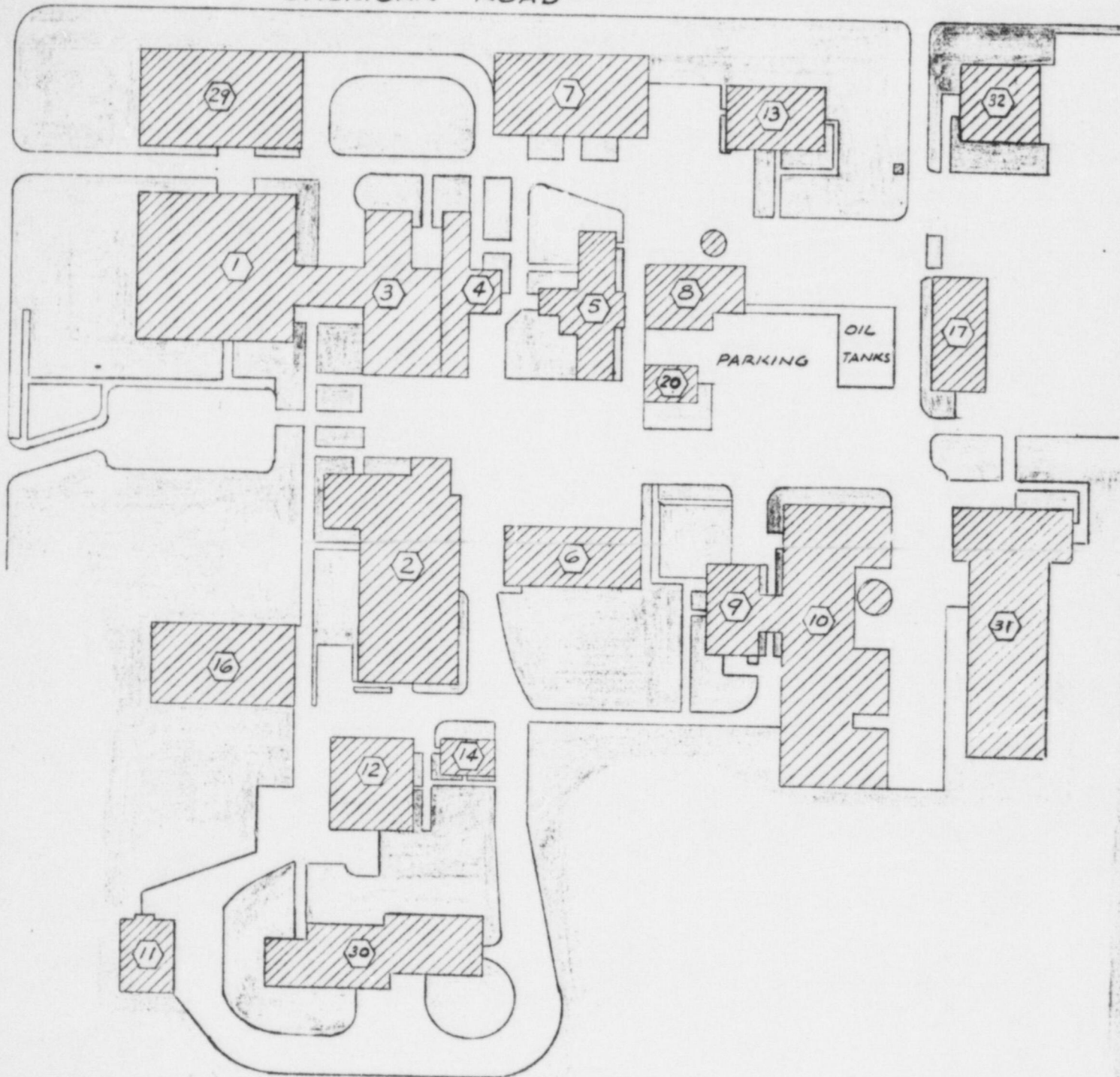
In addition, Becton/Dickinson has a single radioimmunoassay kit for Thyroid Stimulating Hormone (TSH) and Thyroxine ( $\text{T}_4$ ). This test uses Cobalt 57 and Iodine 125. The State of Michigan presently tests for TSH and  $\text{T}_4$  in two different test procedures. This assay will be performed in Building 4.

CONTROL NO. 82275



SHERIDAN ROAD

LOGAN STREET



Bldg. # Item 8 - Materials Used

LICENSE NUMBER 21-05199-03

MICHIGAN DEPT. OF HEALTH  
BUREAU OF LABORATORIES  
PLOT PLAN

1	H I J K
2	I
4	F L (Added)
9	A B C D E F G
20	Waste storage
5	A C D F (Added)

6-3-64

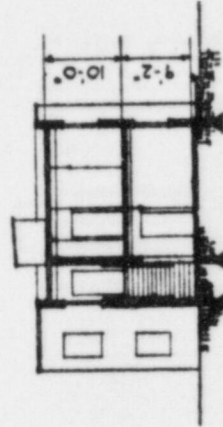
WCH

NO SCALE

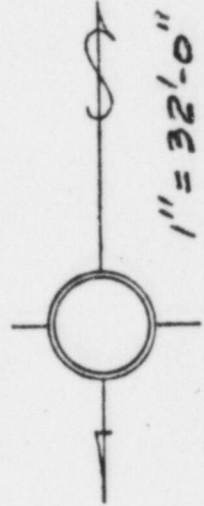
SK. 64-2



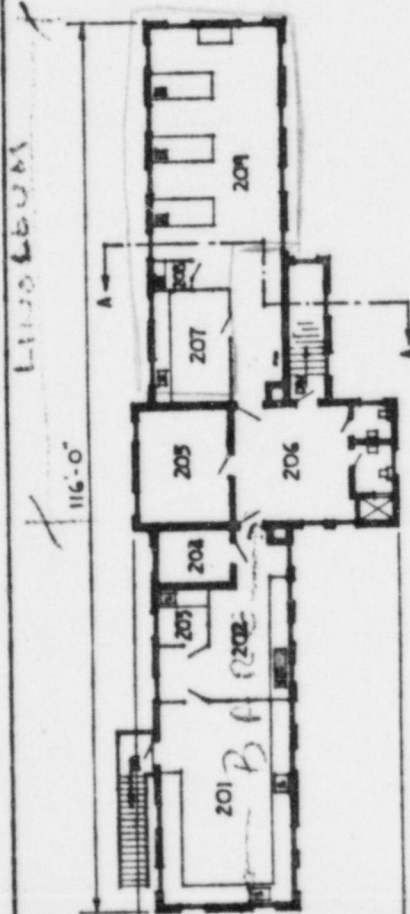
VIEW FROM SOUTH WEST



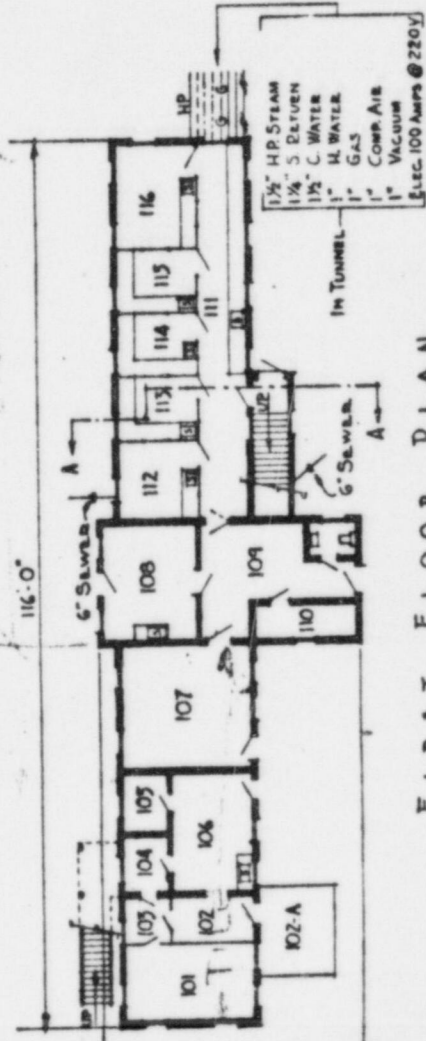
SECTION A - A



VIROLOGY LABORATORY - BUILDING #5



SECOND FLOOR PLAN  
 201, 202, & 203 - LABORATORIES  
 204 - REFRIGERATION  
 205 - OFFICE  
 206 - RECEPTION  
 207, 208 & 209 - LABORATORIES



FIRST FLOOR PLAN  
 101 To 107 INCL. - SMALL ANIMALS.  
 108 - SUPPLY ROOM  
 109 - ENTRY  
 110 - REFRIGERATION  
 111 - CORRIDOR LAB.  
 112 To 116 INCL. - LABORATORIES.