



INDIANA UNIVERSITY

NORTHWEST CENTER FOR MEDICAL EDUCATION
3400 Broadway
Gary, Indiana 46408
(219) 980-6550

SCHOOL OF MEDICINE

March 6, 1985

Dr. William J. Adams
Materials Licensing Section
U.S. Nuclear Regulatory Commission
Region III
799 Roosevelt Rd.
Glen Ellyn, IL 60137

RECEIVED BY LFMB
Date: 3/10/85
Log:
By:
Orig:
Action:

Dear Dr. Adams:

We would like to make the following changes in our materials license, number 13-18384-01:

1. We would like to designate Room 112 as a radiation area, designated Area 2 (see Northwest Center map 2-new designations). In this room we would like to locate a liquid scintillation counter and a gamma counter currently located in the Pharm. Lab (see Northwest Center map 1-previous designations Area 3).

2. We would like to add Dr. Roman Dziarski to our list of responsible investigators. His application and relevant data are enclosed. We would also like to designate his laboratory (formerly Histo II) as a radiation area (now Micro. III Lab-Area 2) (see Northwest Center map 2-new designations and map of this room).

3. We would like to inform you of the following changes in our personnel:

(a). Dr. Larry Steranka, Dr. Kenneth Brunson and Dr. Elaine Edmonds are no longer employed at the Northwest Center.

(b) Dr. Elaine S. Edmonds is no longer Radiation Safety Officer and Chairman of the Radiation Safety Committee. William W. Baldwin has been designated the new Radiation Safety Officer and Dr. W. Marshall Anderson has been designated the new chairman of the Radiation Safety Committee. Dr. Baldwin's phone number is (219) 980-6556 and Dr. Anderson's phone number is (219) 980-6560.

4. Due to these changes in our personnel, radiation area 2 and 3 (see Northwest Center map 1-previous designations) are no longer being used for radioisotope work, we would like to delete them from the areas of radiation use and redesignate room 112 as radiation area 3 and the Histo Lab II (now Micro. I Lab) as radiation area 2 (see Northwest Center map 2-new designations).

5. Dr. Virgil Hoftiezer, one of our responsible investigators is currently using Micro I with no changes in the area of radiation use, so we would like to maintain this area as radiation area 1.

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REGION III

EMPLOYEE

CONTROL NO. 78471

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If you have any questions please contact Dr. Anderson at the above number.

Sincerely yours,

W Marshall Anderson

W. Marshall Anderson, Ph.D.
Chairman, Radiation Safety Comm.

Sincerely yours,

Panayotis G. Iatridis M.D.

Panayotis G. Iatridis, M.D., D.Sc.
Professor of Physiology and Medicine
Assistant Dean & Director

APPENDIX H

Application for Approval as a
User of Radioactive MaterialName Roman Dziarski, Ph.D.Title Associate Professor

1. Experience

Indicate training in specific areas listed below:

| a. Type of Training | Where Trained | Duration of Training | On the Job | Formal Course |
|---|--------------------------------|----------------------|--|--|
| Principles of radiation protection..... | Natl. Inst. of Hygiene, Warsaw | 4 years | <input checked="" type="radio"/> Yes/ <input type="radio"/> No | Yes/ <input checked="" type="radio"/> No |
| Radioactivity measurement standardization and monitoring techniques and instruments | | | <input checked="" type="radio"/> Yes/ <input type="radio"/> No | Yes/ <input checked="" type="radio"/> No |
| Mathematics and calculations basic to the use and measurement of radioactivity..... | | | <input checked="" type="radio"/> Yes/ <input type="radio"/> No | Yes/ <input checked="" type="radio"/> No |
| Biological effects of radiation..... | | | <input checked="" type="radio"/> Yes/ <input type="radio"/> No | Yes/ <input checked="" type="radio"/> No |

b. Experience with Radiation

| ISOTOPE | MAXIMUM AMOUNT | WHERE EXPERIENCE WAS GAINED | DURATION OF EXPERIENCE | TYPE OF USE |
|---------|----------------|--|------------------------|-------------|
| I-125 | 10 uCi | Natl. Inst. of Hygiene, Warsaw | 4 years | Research |
| H-3 | 50 mCi | Pennsylvania College of Podiatric Medicine, Philadelphia, PA | 7 years | Research |
| C-14 | 10 mCi | Pennsylvania College of Podiatric Medicine, Philadelphia, PA | 2 years | Research |
| Cr-51 | 5 mCi | University of Pennsylvania, Philadelphia, PA | 2 years | Research |

2. Indicate isotope(s), maximum amount you plan to have at any one time (including waste) and chemical form:

H-3 - 35 mCi
C-14 - 10 mCi
I-125 - 10 mCi
Cr-51 - 5 mCi

Any chemical form

3. Describe purpose for which radioactive material will be used:

All isotopes will be used in research for in vitro labelling of bacterial components or lymphoid cells

4. Other persons under your supervision who will be handling radioactive material:

5. Where will radioactive material be used. If appropriate, submit drawing of laboratory, indicating areas of use.

NUCME, Rm 122

6. Describe any special laboratory equipment to be used.

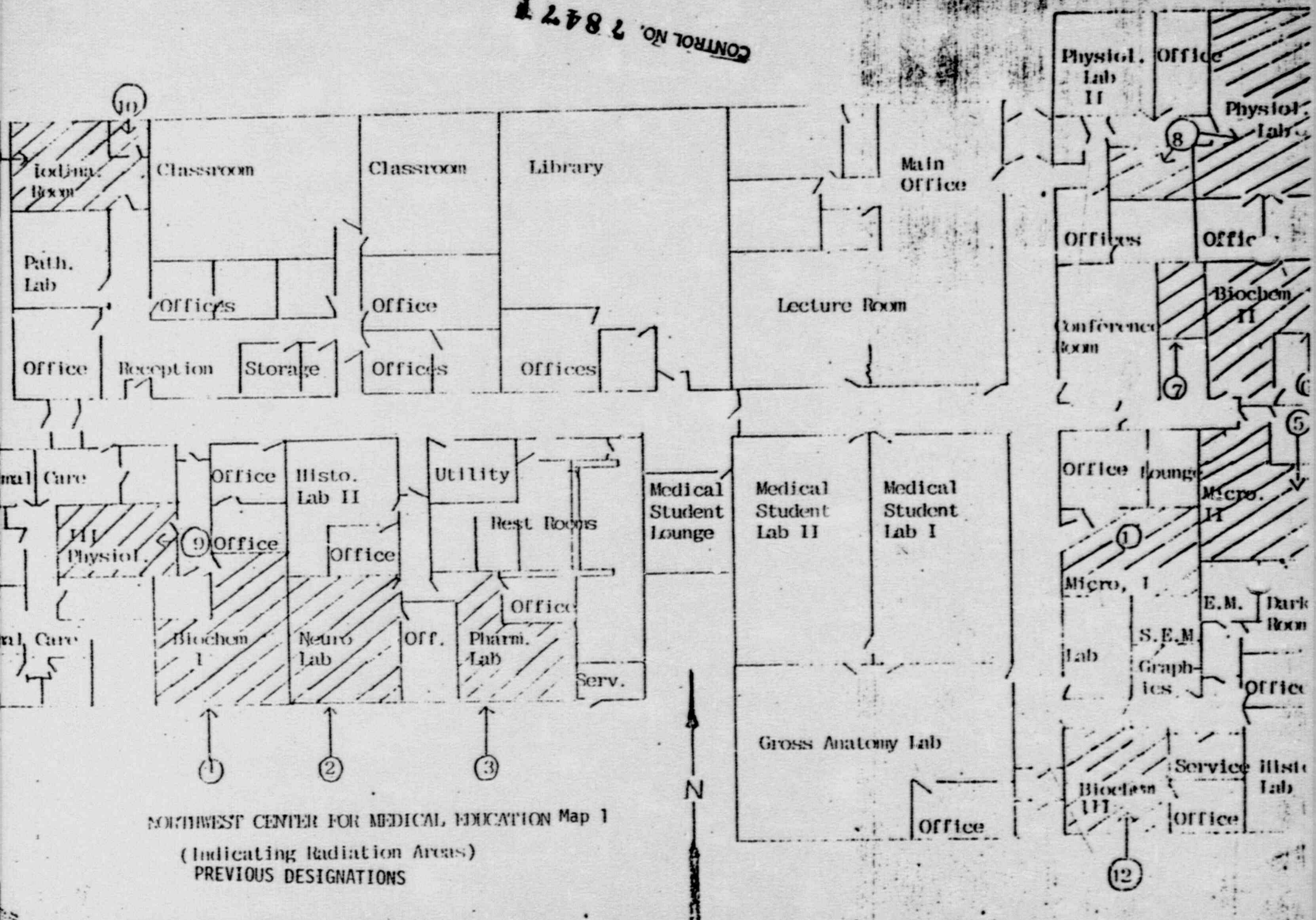
Scintillation counter, gamma counter

7. Statement of Agreement: The below-named individual signifies that he has read and is willing to abide by the Indiana University regulations governing the use of radioisotopes and other sources of ionizing radiation. The undersigned agrees to comply strictly with all such rules and regulations and further assumes responsibility for ascertaining that employees, students, and associates working under his direction shall comply with the regulations of Indiana University governing the use of radioactive materials and radiation sources.

Date: 3/4/85

Signed: Roman D. Smith

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NORTHWEST CENTER FOR MEDICAL EDUCATION Map 1
(Indicating Radiation Areas)
PREVIOUS DESIGNATIONS

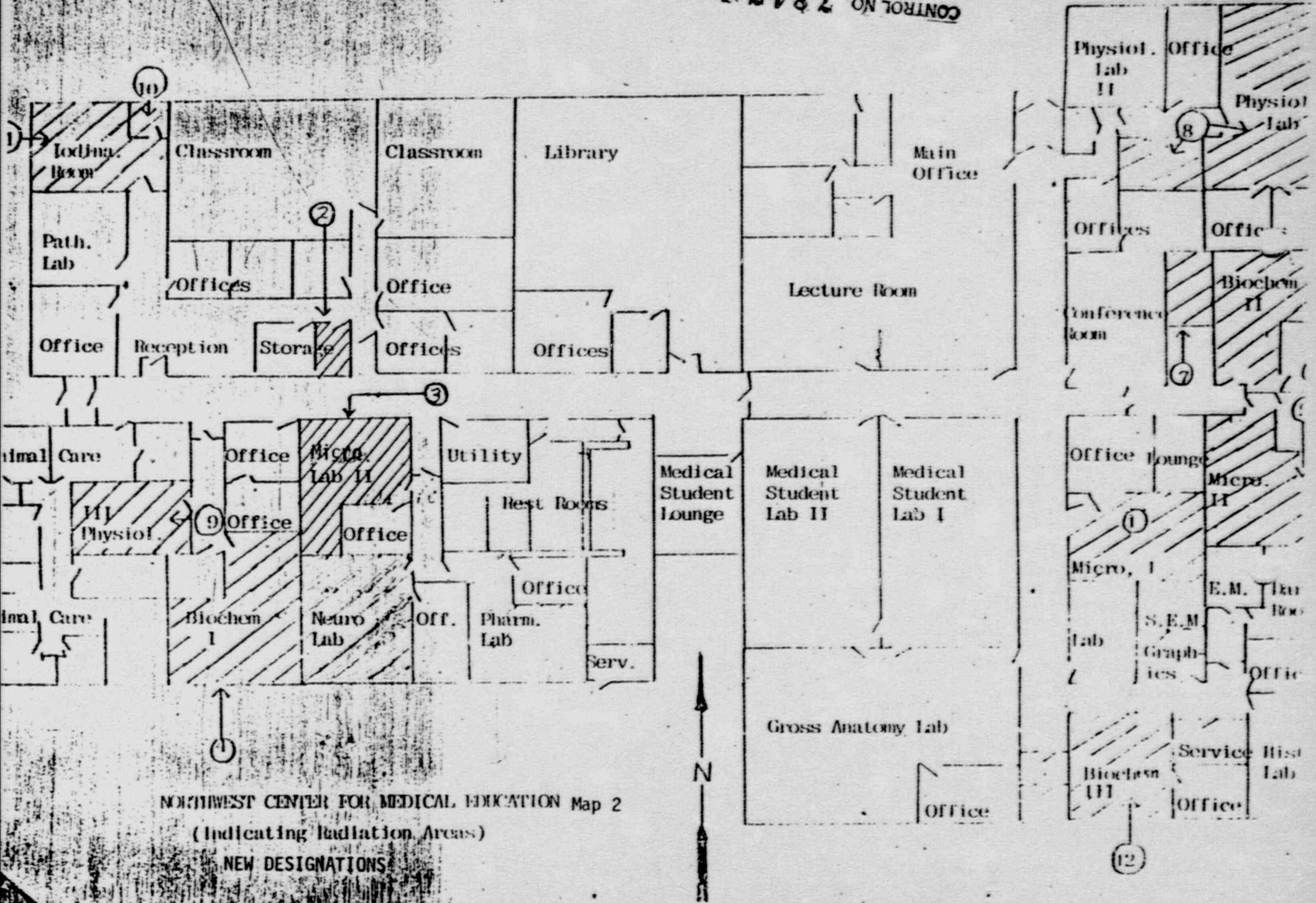
Key to Northwest Center Map 1-Previous Designations

1. Microbiology Laboratory - Dr. Brunson
2. Neuroscience Laboratory - Dr.monds
3. Pharmacology Laboratory - Dr. Steranka
4. Biochemistry Laboratory - Dr. Hadd
5. Microbiology Laboratory - Dr. Baldwin
6. Biochemistry Laboratory - Dr. Anderson
7. Cold Room - General Use Area
8. Physiology Laboratory - Dr. Iatridis
9. Physiology Laboratory - Dr. Macchia
10. Radioisotope Storage Room - General Use
11. Iodination Room (Under Construction) - General Use for Iodination
12. Biochemistry II Laboratory - Dr. Chambers

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13. Facilities

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NORTHWEST CENTER FOR MEDICAL EDUCATION Map 2
 (Indicating Radiation Areas)
 NEW DESIGNATIONS

KEY TO NORTHWEST CENTER MAP 2-NEW DESIGNATIONS

1. Microbiology I Laboratory- Dr. Hoftiezer
2. Counting Room-General Use Area
3. Microbiology III Laboratory -Dr. Dziarski
4. Biochemistry Laboratory-Dr. Hadd
5. Microbiology II Laboratory-Dr. Baldwin
6. Biochemistry II Laboratory-Dr. Anderson
7. Cold Room-General Use Area
8. Physiology Laboratory-Dr. Iatridis
9. Physiology III Laboratory-Dr. Macchia
10. Radioisotope Storage Room- General Use Area
11. Iodination Room- General Use for Iodination
12. Biochemistry III Laboratory-Dr. Chambers