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March 25, 2011

MS 16
J-6

Dennis R. Lawyer
Commercial and R&D Branch
Division of Nuclear Materials Safety
US Nuclear Regulatory Commission, Region 1
475 Allendale Road
King of Prussia, PA 19406-1415

Subject: Response to NRC Letter Dated March 9, 2011
License No. 06-28624-01
Docket No 03032126
Mail Control No. 574454

RECEIVED
REGION 1
2011 MAR 30 AM 11:19

Dear Dr. Lawyer:

In response to above-referenced letter, attached are the as-built drawings showing previously restricted areas where radioactive materials were used or stored at Monsanto Mystic. Original full size drawings are maintained in the decommissioning records, and are available upon request.

A general site plan is in Attachment 2. Laboratories are on the first and second floor of the Main Lab Building and the Headhouse. Monsanto is licensed to use radioactive materials in all labs. Radioactive materials were used and stored in the following labs:

- 116 (Attachment 3)
- 143 (Attachment 4)
- 201 (Attachment 5)
- 202 (Attachment 5)
- 206 (Attachment 5)
- 215 (Attachment 6)

Radioactive waste was stored in two storage lockers:

- 134 (Attachment 7)
- 135 (Attachment 7)

There are no areas of possible inaccessible contamination. There are no floor drains in any of the radioactive material storage and use areas. Radioactive materials were not disposed to any drains. There have been no spills. Chemical fume hoods were not used for radioisotope work; except the chemical fume hood in 206 (Attachment 5), which is equipped with a HEPA filter and was used on several occasions for aliquotting ³⁵S from the original vials.

574454
NMSS/RGN1 MATERIALS-002

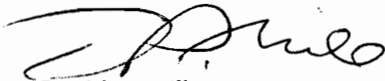
March 25, 2011

Page 2

Laboratory 143 was reconfigured into office space after it was no longer being used for research involving radioactive materials and had been properly decommissioned. The new layout is shown on Attachment 8.

Thank you for reviewing our request for license termination. Please contact me at (860) 572-5255 or our radiation safety officer Dr. Christopher Bonin if you require any additional information.

Sincerely

A handwritten signature in black ink, appearing to read "D. Miller", written over a horizontal line.

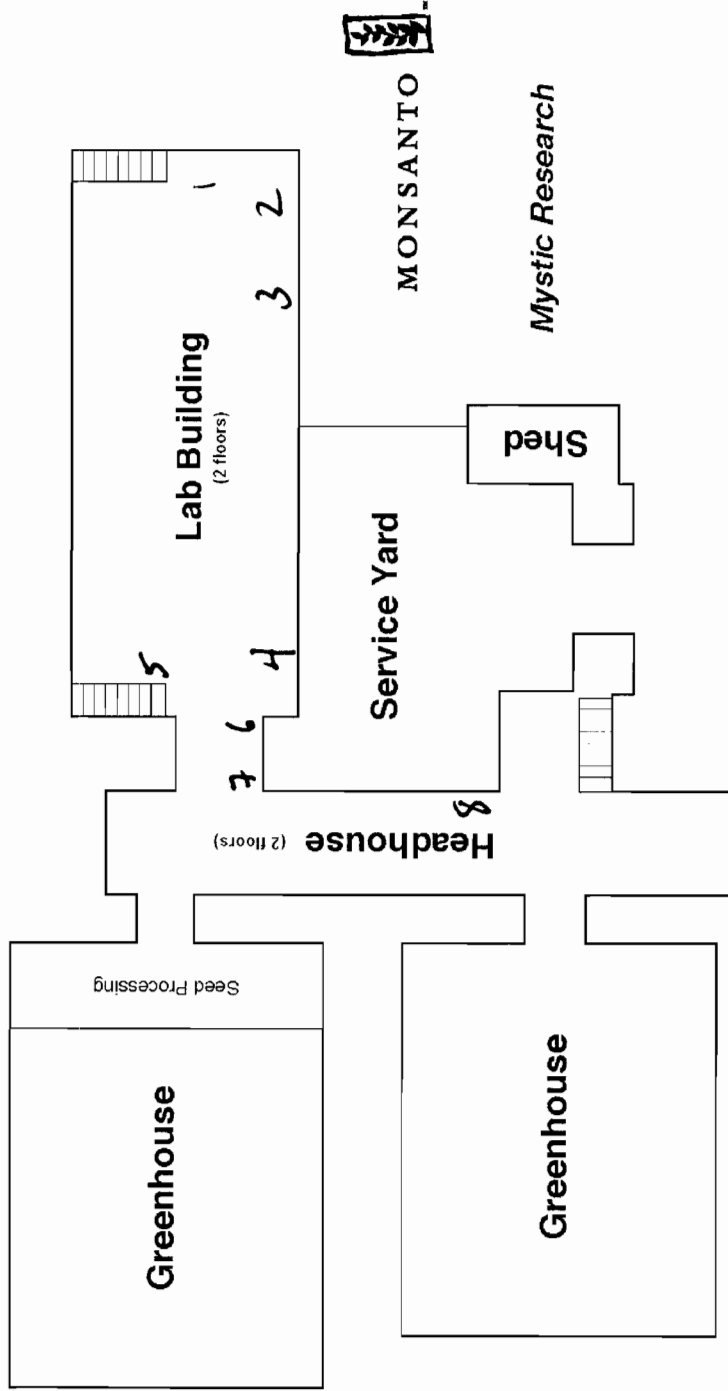
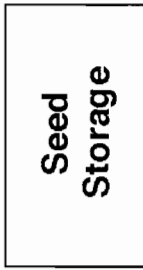
David P. Miller
Monsanto Mystic ES&H

cc: Christopher Bonin, Ph.D., Radiation Safety Officer
Steven E. Reiser, Ph.D., Monsanto Mystic Site Lead

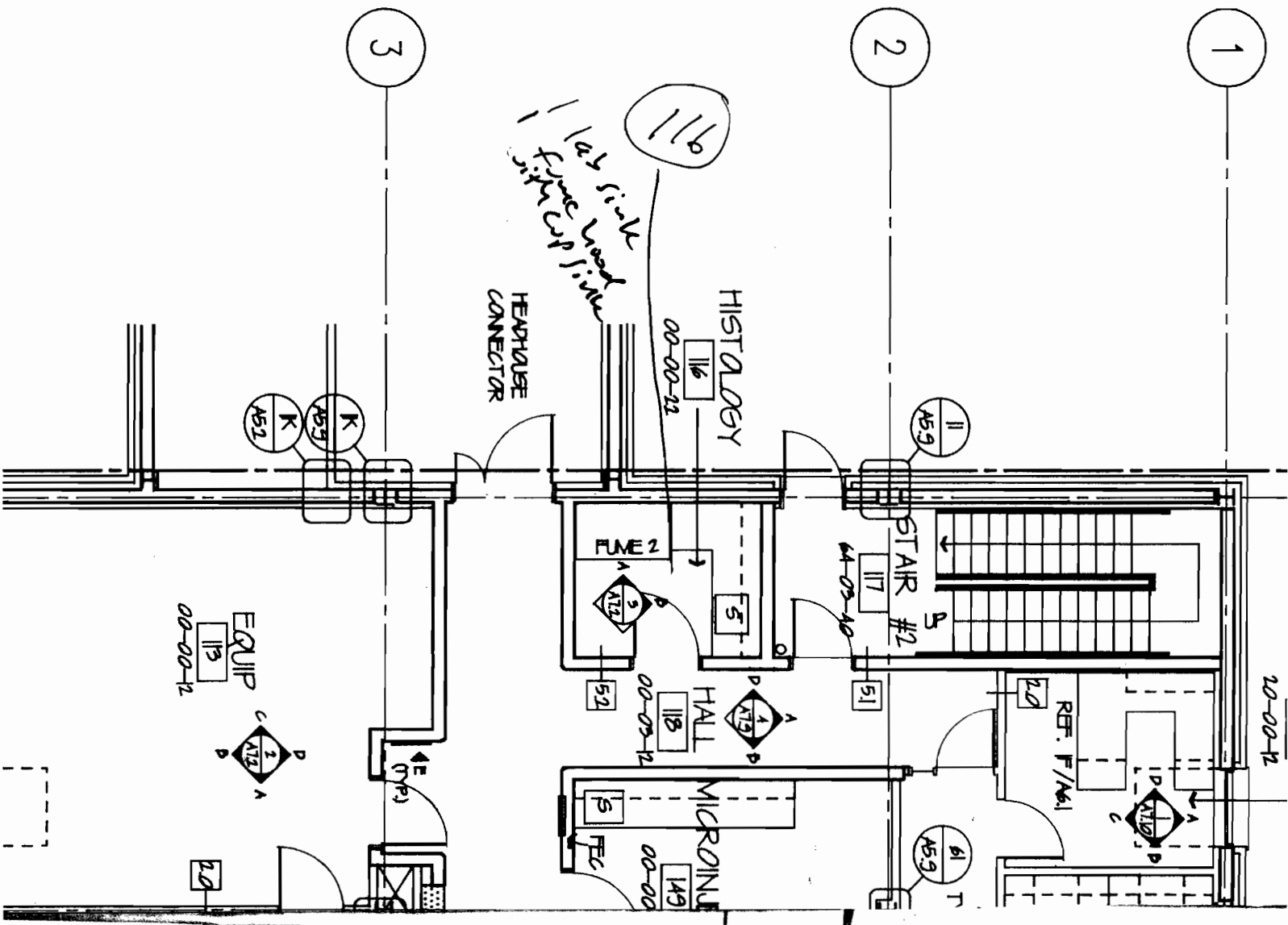
Attachment 2

Legend

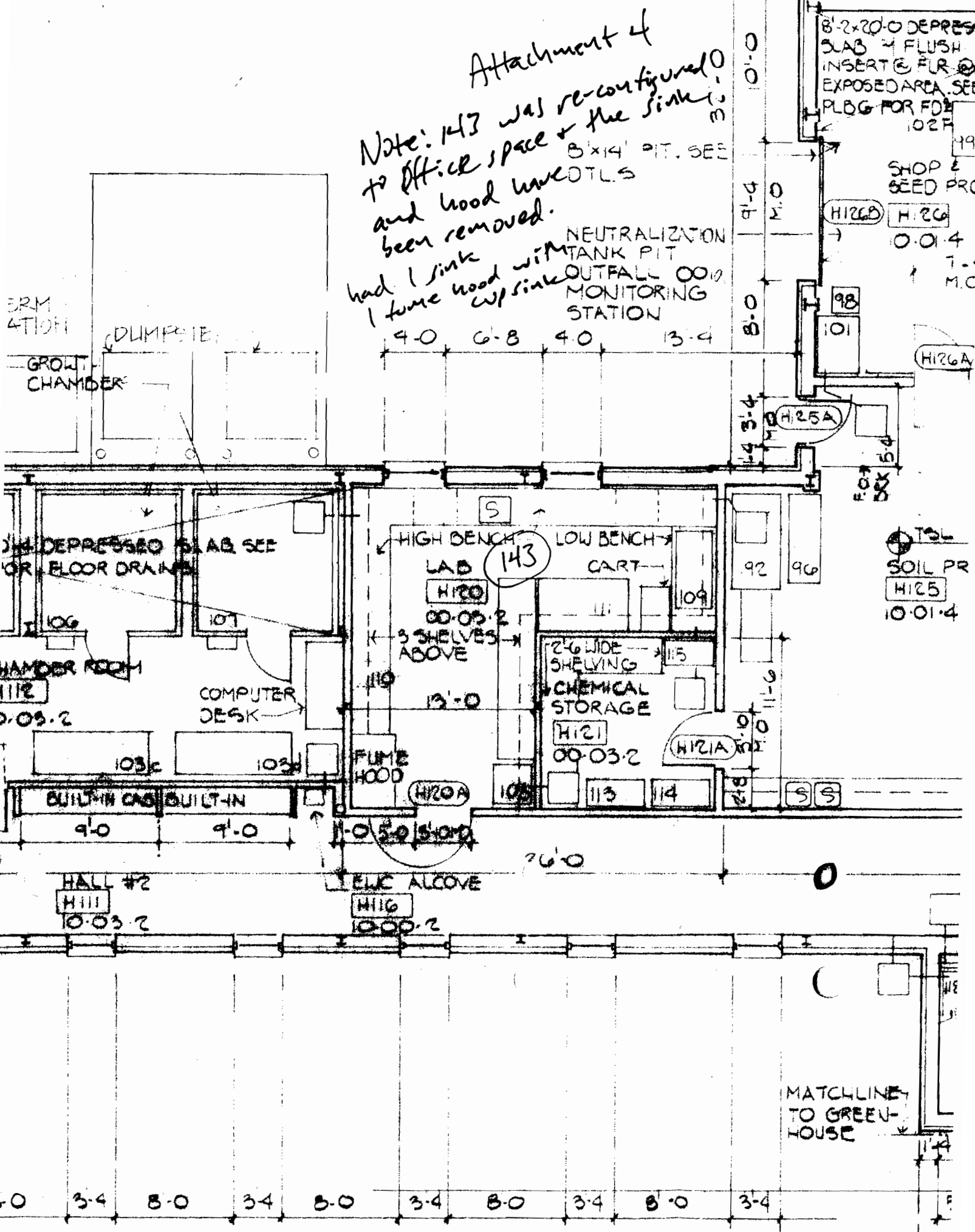
- 1, 2, 3: Location of labs 201, 202 + 206 on 2nd Floor-
- 4: Location of lab 215 on second floor-
- 5: Location of lab 116 on first floor-
- 6 + 7: Location of storage lockers 135 + 134 on first floor-
- 8: Location of lab 143 on first floor-



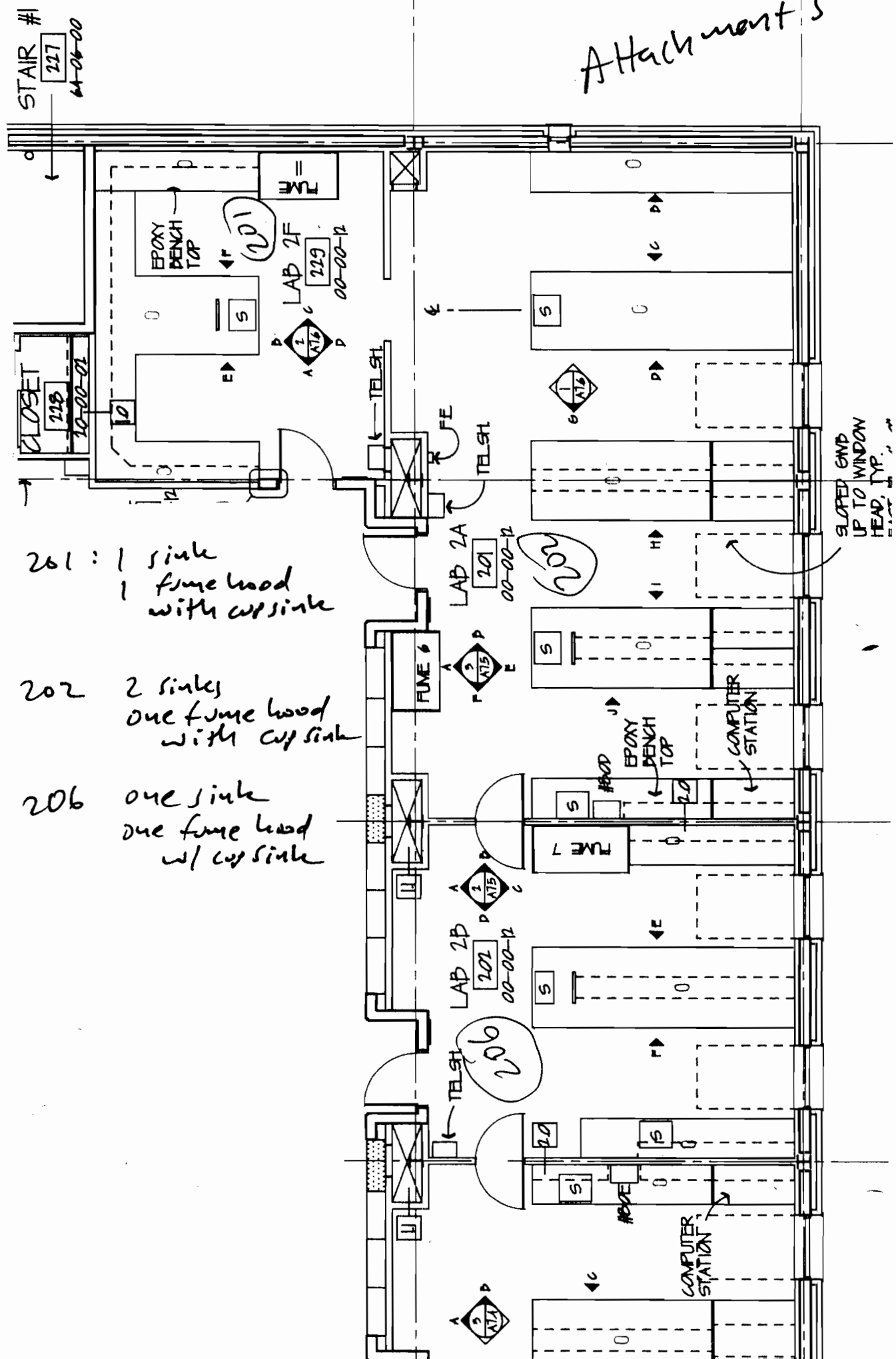
Attachment 3



Attachment 4
 Note: 143 was re-configured to office space & the sink had 1 sink & hood were removed.
 had 1 sink & hood with 1 tune hood with w/sink



Attachment 5



201: 1 sink
1 fume hood
with cap sink

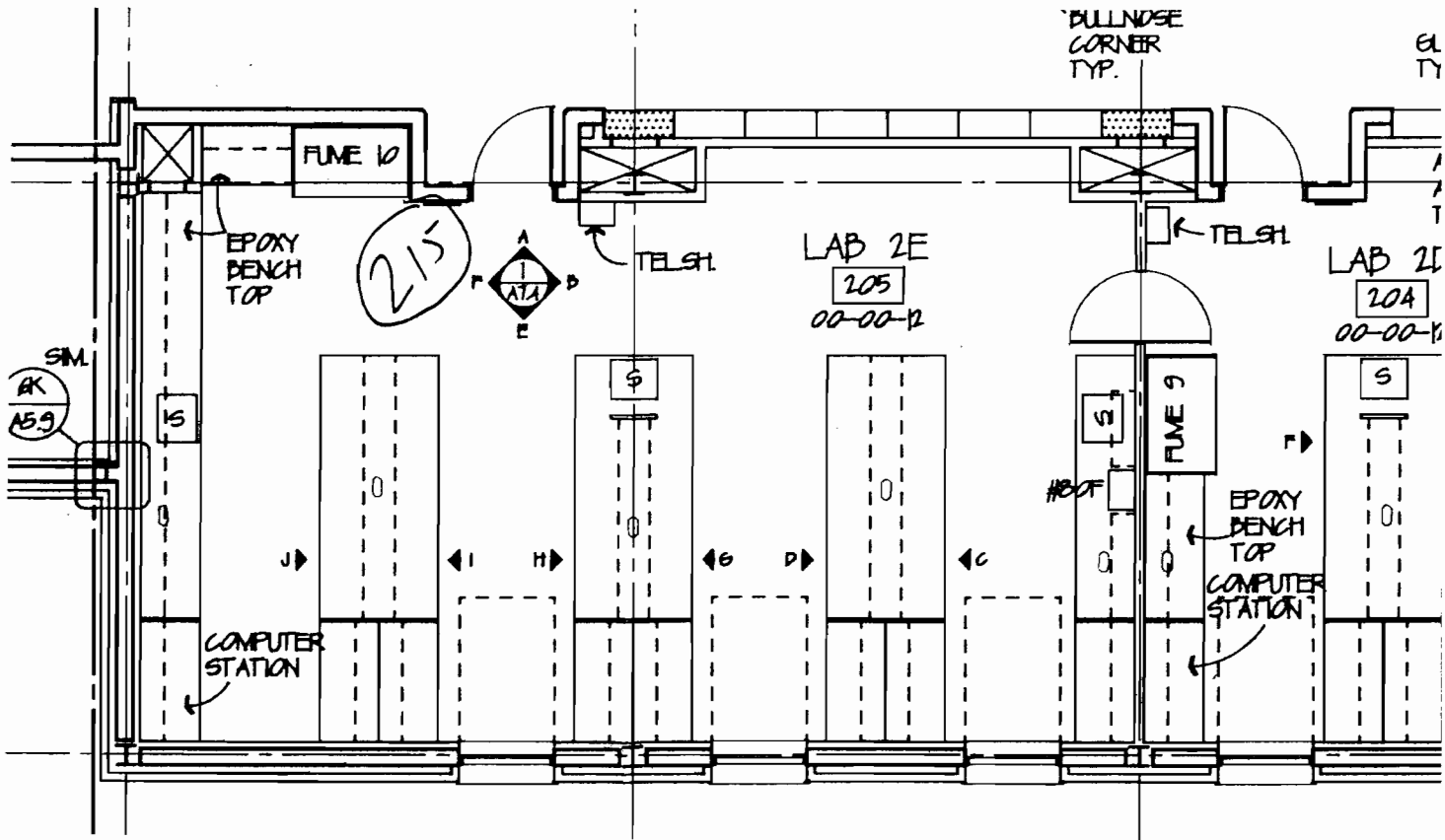
202 2 sinks
one fume hood
with cap sink

206 one sink
one fume hood
w/ cap sink

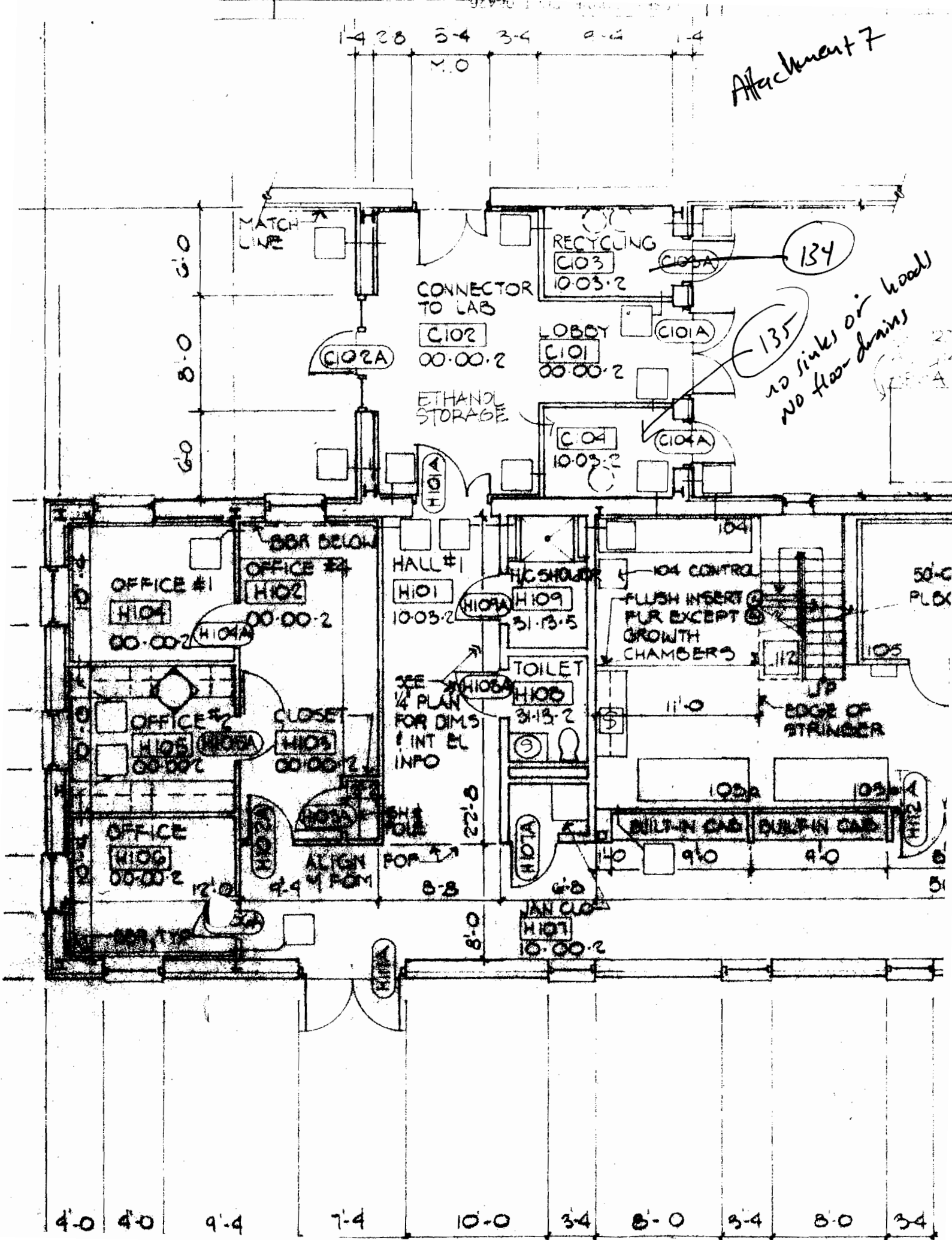
SLOPED GND
UP TO WINDOW
HEAD, TYP.

Attachment 6

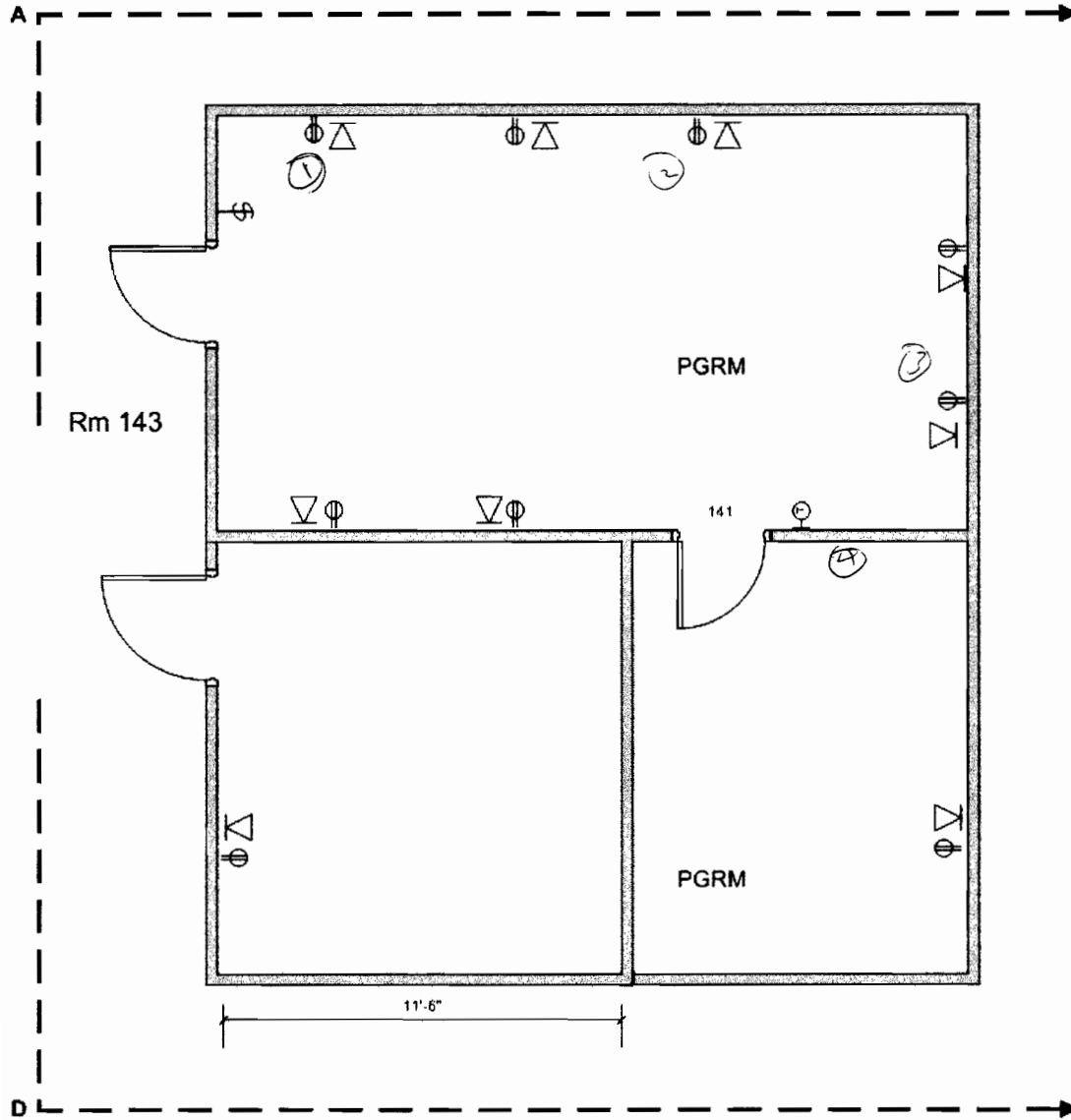
Lab 215 2 sinks
One fume hood
with cap sink



Attachment 7



Room 143 renovations



- △ Tel data
- ⊗ 20 amp 110v duplex

- 2010:
- ① removed chemical fume hood + cup sink
 - ② removed benches + cabinets
 - ③ removed sink
 - ④ installed wall + door

Door Schedule
13B (30" with 12" leaf with Window)
124 A 2' 6" with window
124 B 2' 6" with window

Attachment 8