

3/18 BO Meeting Attendees:

UC Merced: Allison Costa, Bobbi Henderson, Maggie Saunders, Heather Bortfeld, Jennifer Hahn-Holbrook

SCB/GLP Team: Matt Pietras, Martin Gicklhorn

4/15 BO Meeting Attendees:

UC Merced: Allison Costa, Bobbi Henderson, Heather Bortfeld, Martin Haggar

SCB/GLP Team: Martin Gicklhorn

Agenda for Breakout Meeting #2 (for #58B Wet Labs)

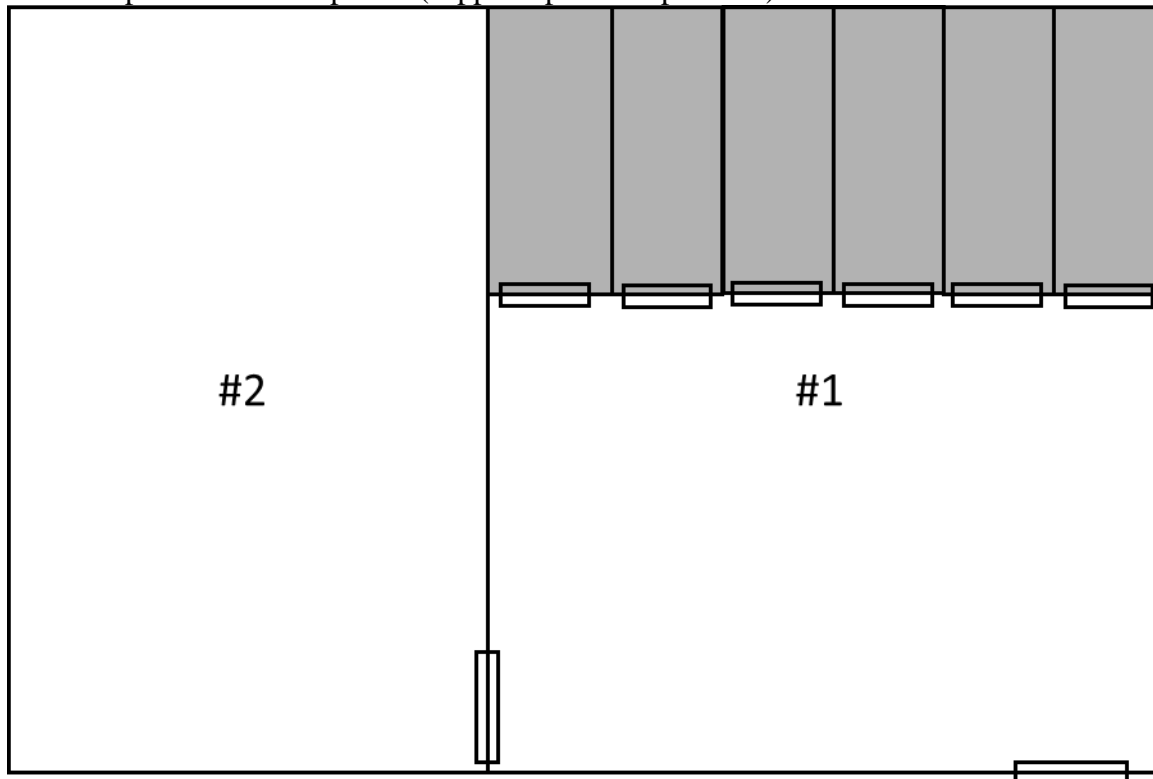
1. [Review Meeting Notes and get user feedback](#)
2. [Review Program Sketch Plan Options and get user feedback](#)
 - A. [Select one of the Options](#)
 - B. [Confirm that that the two Wet Labs \(#58B\) are to be designed to be the same](#)
3. [Discuss next steps](#)

(#53) Prototype Wet Lab – Cardio/psychophysiology wet lab

(Martin Haggar)

3/22: This lab is to also receive a dedicated 180 ASF Lab Support Space (#60B).

Broken up into two sub-spaces: (support space not pictured)



- **Room #1: Multipurpose research room** (350 sq ft) will have 8 workstations throughout the space that can support graduate students, undergraduate workers, or data collection. Off of the main space will be 6-8 small experimental cubicles (booths) each walled off from the rest of the room with their own door, windowless, soundproofed, each house a computer and integrated desk and chair, each with power supply and ethernet connection. These participants will need to be isolated. This room should have a door to Room #2.

Questions/Responses:

1. Confirm count and size requirements for the experimental cubicles/booths: ***Existing Cubicles are 60"x90-1/2" but Martin H. is OK with the new cubicles being smaller if needed to fit them in as he needs a min of 6.***
 2. Confirm size of computer workstations in this room. ***Desk worksurfaces are to be built-in to save space below the desk***
 3. ***Desks / test booths and workstations in Workstation Area are to each have elec and telecom***
 4. ***Test Booths must be very acoustically isolated but acoustic level has not been quantified. Past experience is that conventional metal stud walls with drywall both sides (and possibly a 2nd layer on one side) plus a solid core door with acoustical gasketing on three sides and auto door bottom is adequate. Walls to either extend to structure above or have a gypsum board framed ceiling that will match room to room acoustical isolation performance of walls. Care to be taken so sound does not travel from room to room via ductwork.***
 5. ***Doors to Test Booths should be quite in operation so one door opening or closing does not disturb test subjects in other test booths.***
 6. ***Test Booths are not sensitive to EMI. (Test subjects will simply be sitting at the desk and working on a computer)***
 7. ***Room Finishes: Test Booths to have painted gyp bd walls, carpet tile on the floors and ceiling could either be painted gypsum board (if walls extend to structure above) or an acoustic T-bar ceiling (if walls extend to structure above).***
 8. ***Windows: The Workstation Area could have windows. Windows would be preferred for this room. There should be no windows in the Test Booth Rooms.***
 9. ***HVAC Zones: Each booth does not need to be a separate HVAC Zone. Combined group of 6 test booths to all share one HVAC zone and T-stat to be located in one of the test booths.***
- **Room #2: Psychophysiology room** (250 sq ft): Psychophysiology lab to house EEG or eye-tracking equipment for experiments using specialized equipment. This room will house the sink.

Questions/Responses:

1. Confirm if this room will have EMI sensitivity: **Response: Equipment in the room, including EEG, will be sensitive to EMI.**
2. Will room have TMS? **Response: Martin H. expects to have TMS in the room but does not yet own a TMS. The room should have some high amperage receptacles as would be required for TMS testing and Martin H. was open to using the transformer option (that are available with the TMS units) so 110v outlets could be used for the TMS. Electrical outlets are to be provided around the room in the walls and no electrical outlets are required in the floor.**
3. Confirm acoustic isolation requirements of the room. **Response: Room must be as acoustically isolated at the test booths (see above) to contain both TMS clicking noises and to be a barrier from noises coming from outside the room. Walls of this room should extend to the structure above and the room should have a sound absorbent acoustical ceiling.**
4. Is storage of test equipment required in the room? **Response: Sink worksurface to run full length of one short side of the room and have base cabinets below and wall cabinets above for storage. No additional storage is required in the room.**
5. Is special electrical required for the test equipment? **Response: Provide electrical outlets along walls around the perimeter of the room as would be required for equipment that is commonly used in this type of room. Provide some isolated ground outlets and some higher voltage and higher amperage outlets.**
6. **Sink in this room will be used for hair washing/rinsing. No special hair wash sink is required but sink should be good-good sized and have a pull-out rinse spray nozzle/gooseneck for hair rinsing.**
7. **Room Finishes:**
 - Ceiling: Acoustical Ceiling. Room lighting should be LED with the lowest EMI rating for LED controllers or controllers should be located outside of the room)**
 - Walls: Painted Gyp Bd. (Room walls to have wall backing for the mounting of test equipment. Care should be taken to not have continuous rows of metal backing that might induce an inductive current that would generate EMI)**
 - Floor: Carpet tile in overall room but with a small section of resilient/washable flooring in front of the sink area**
8. **Windows: There should be no windows in this room.**

All spaces should have soundproofing and be windowless (**other than the workstation area**). Multiple (4+) circuits, and multiple (8+) hardwire internet portals for computational purposes

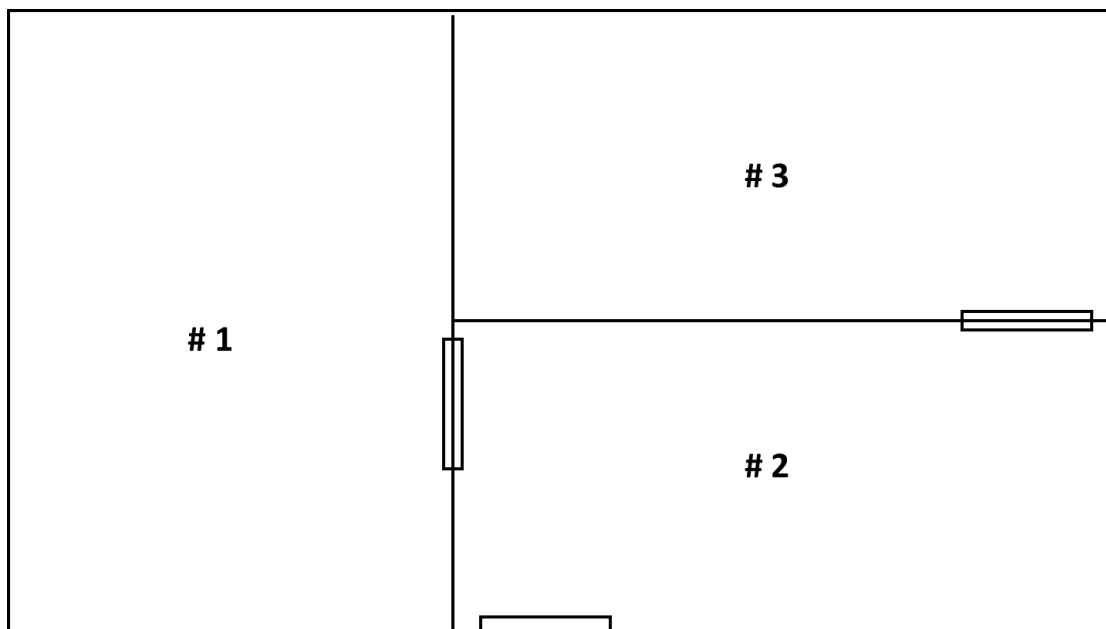
(#58B) The following is the pre-meeting input for the #58B program spaces received from the Psych Dept. as well as notes and questions/responses from the meetings

(#58B) Prototype Wet Lab for Psychology

(Jennifer Hahn-Holbrook, Biological-Health Hire #1, ~~Biological Health Hire #2~~)

3/18: There are 2 labs of this type in the space program and they are intended to be designed to be side by side and be of the same design

Broken up into three sub-spaces: (support space not pictured)



3/22: This lab is to also receive a 180 ASF Lab Support Space (#60B). The lab support space was not discussed at the 3/18 meeting and will be on the agenda for the 2nd Breakout Meeting.

- **Room #1: Wet Lab Room** (250 sq ft) with 2 built-in high load bearing lab benches (minimum depth 35 inches to accommodate a high through-put centrifuge and other machinery), a fume hood, a sink with an eye wash station, and spill resistant floors. This room will also house a freezer to store samples in between processing and a computer workstation for analyzing biological data. The room must have a self-closing door to meet wet lab safety requirements and should be lockable. The room must also be equipped with power outlets (x 6; 2 of which should be for 220 volts to allow for -80 freezers) and Ethernet capability. Ideally, the lab would have built in deionized water access (like other bio buildings on campus).

Questions/Responses:

1. Is floor standing equipment shown on Program sketch plan correct? **Response: Yes**
2. Is 4' size Fume Hood adequate? **Response: Yes**

3. What gases are wanted at in this lab (at FH and at benches)? *Response: Compressed Air, Lab Vacuum & RODI water at the sink(s). There will be no piped natural gas to any labs in the building*
 4. *Large lab equipment should be seismically anchored as would be required by the California Building Code.*
 5. Room Finishes:
 - Ceiling: Acoustical Ceiling*
 - Walls: Painted Gypsum Board*
 - Floor: Heat welded Sheet Vinyl, resinous flooring, or equal wet lab type flooring*
- **Room #2: Observation Room** (175 sq ft) will be used for video observation of dynamic interactions, training, and consenting participants. It should also have three computer workstations for data processing and analysis.

Questions:

1. Confirm furnishings in the room. *Response: Furnishings as indicated on the Program Plan are OK but Jennifer has much of her own furniture so it is uncertain to what extent new furniture will be required.*
 2. Is waiting area/seating for participants required? *Response: A small table and two chairs. The Room serves newborn babies and their mothers.*
 3. Confirm size of computer workstations. *Response: Workstations currently drawn on the Program Plan (48" wide) are larger than in the current lab which (approx. 36" wide). Jennifer said that her students would likely appreciate having larger workstations than the existing ones.*
 4. Acoustic requirements of room? *Response: This topic was not discussed at the 1st BO meeting.*
 5. **Room Finishes:**
 - Ceiling: Acoustical ceiling*
 - Walls: Painted gypsum board*
 - Floor: Resilient/washable*
- **Room #3: Biological Sample Collection Room** (175 sq ft) that will be used for biological data collection of individuals or pairs of people. Will have table and chairs for participants to rest at during the study. The tables will support a computer and monitor among other physiological equipment. This space should contain no carpeting to allow for biological samples to be collected. This space should have a sink.

Questions/Responses:

Notes of 15 April Programming Breakout Mtg. #1 (for #53 Cardio/psychophysiology Wet Lab)

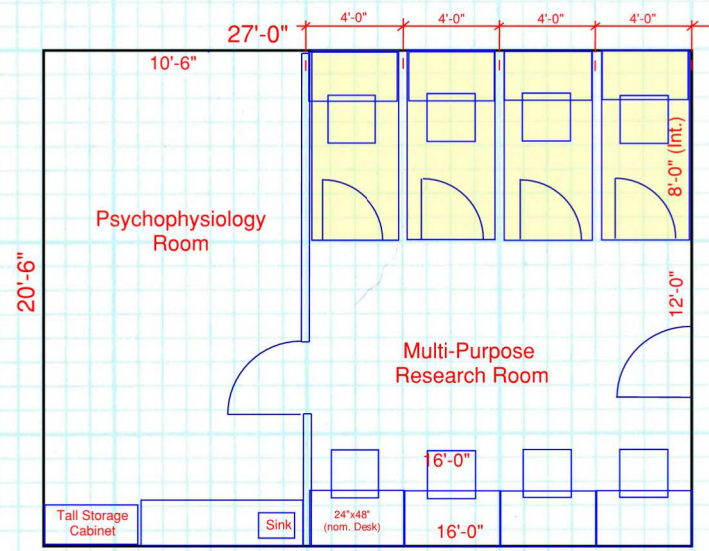
1. Confirm furnishings in the room. ***Response: Room furnishings were acceptable as shown on the Program Plan. The room serves newborn babies and their mothers.***
2. Confirm that added storage is wanted. ***Response: The tall storage cabinets shown on the program plan were desirable to Jennifer but she has some tall storage cabinets in her current lab so those cabinets may be moved to the new lab from her existing lab.***
3. Confirm size of tables for test subjects/participants. ***Response: The sizes of the tables as shown on the Program Plan were acceptable but there is some question about the ability to fit everything into the available space***
4. Acoustic requirements of room? ***Response: This topic was not discussed at the 1st BO meeting***
5. ***Room Finishes:***
 - Ceiling: Acoustical ceiling***
 - Walls: Painted gypsum board***
 - Floor: Resilient/washable***

All spaces should have soundproofing and be windowless (***other than the Wet Lab***). Multiple (4+) circuits, and multiple (8+) hardwire internet portals for computational purposes.

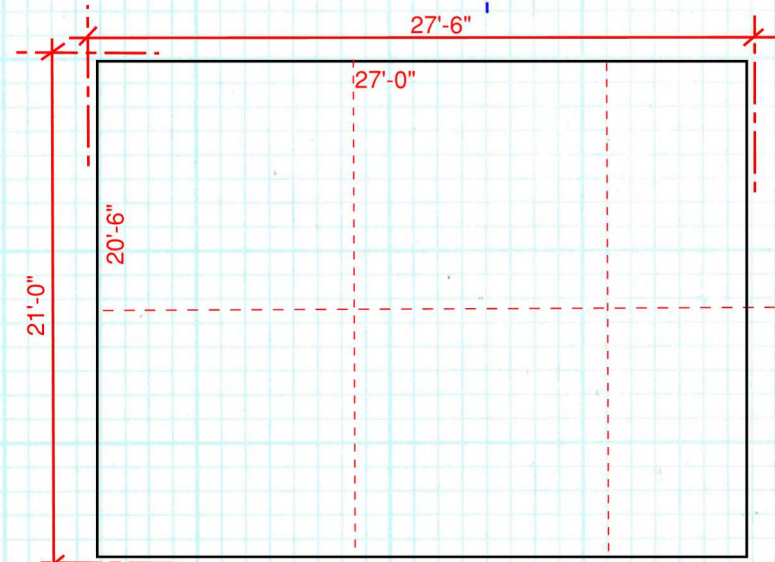
3/18:

- A. Windows are wanted in the #58B Wet Lab Room if it is possible to have them. At next breakout meeting, reconfirm which spaces should not have windows and which spaces are OK to have windows.***
- B. There should no carpet in any of the rooms.***
 - 1. Reconfirm Room finishes at next breakout meeting.***
- C. There would ideally be a Lactation Room somewhere near this lab in the building (but this is not a "must have").***

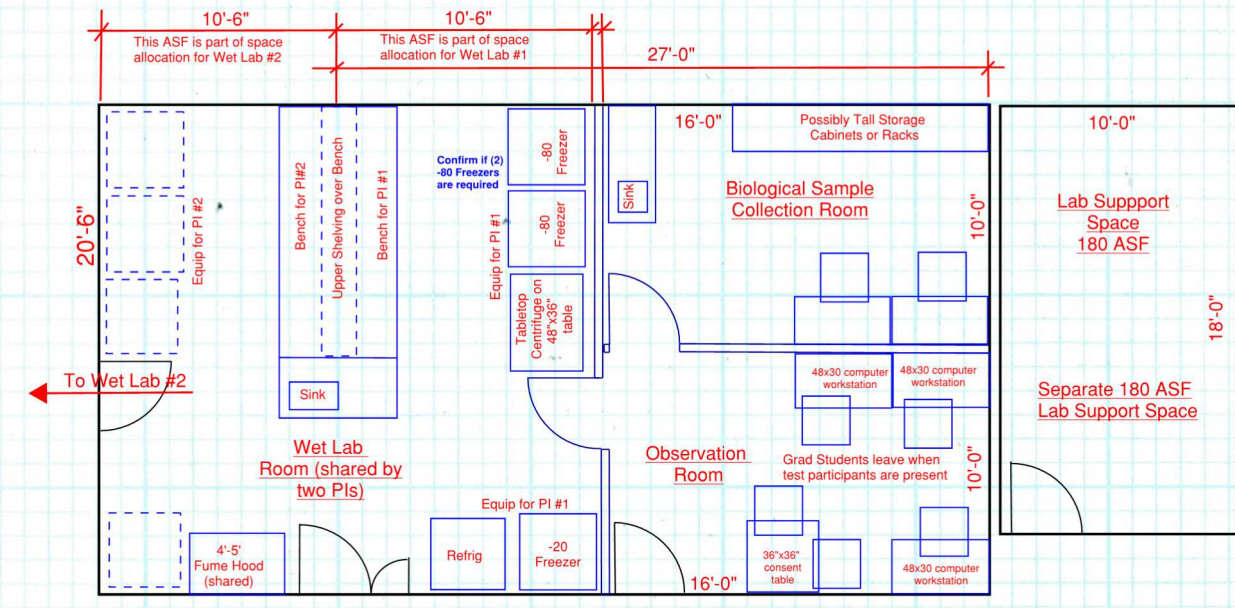
END OF MEETING NOTES



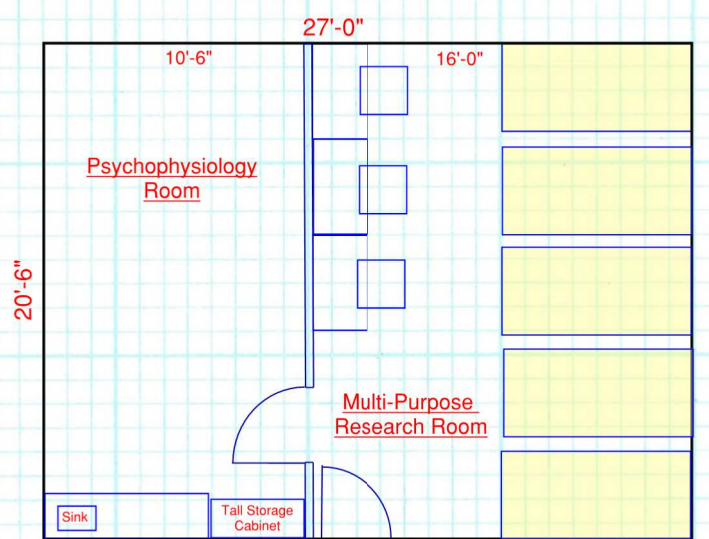
#53 - Psych-Cardio/Psychophysiology Wet Research Lab - Opt. 1
13 April 2021 1/8"=1'-0"



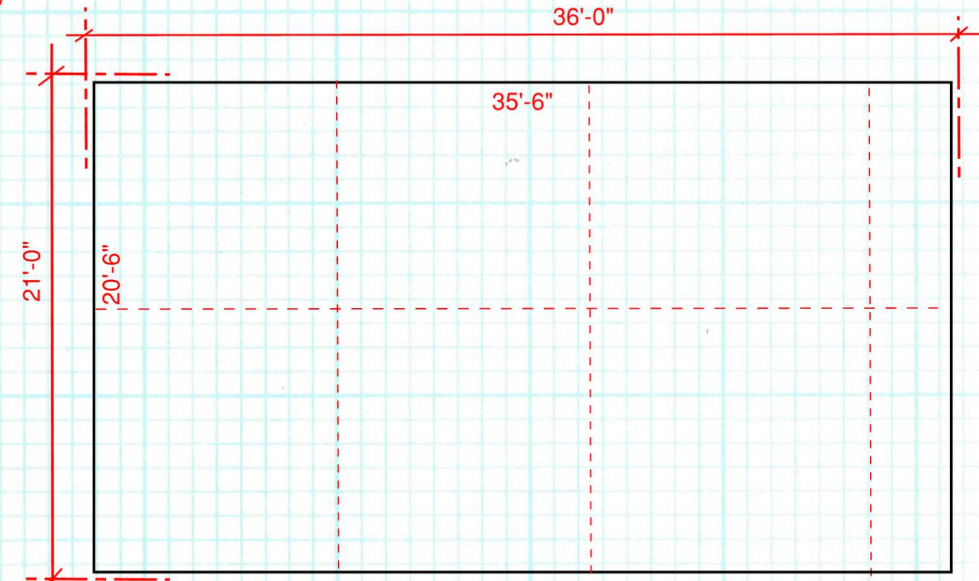
553.5 ASF (550 SF Lab Space Only)



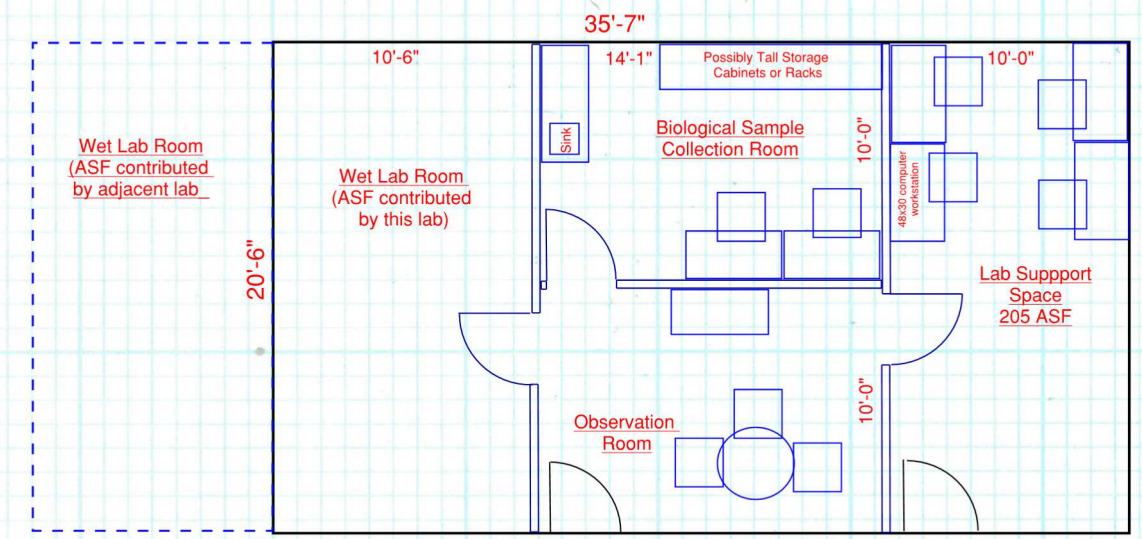
#58B - Psychology Wet Research Lab + Lab Support (#60B)
13 April 2021 1/8"=1'-0"



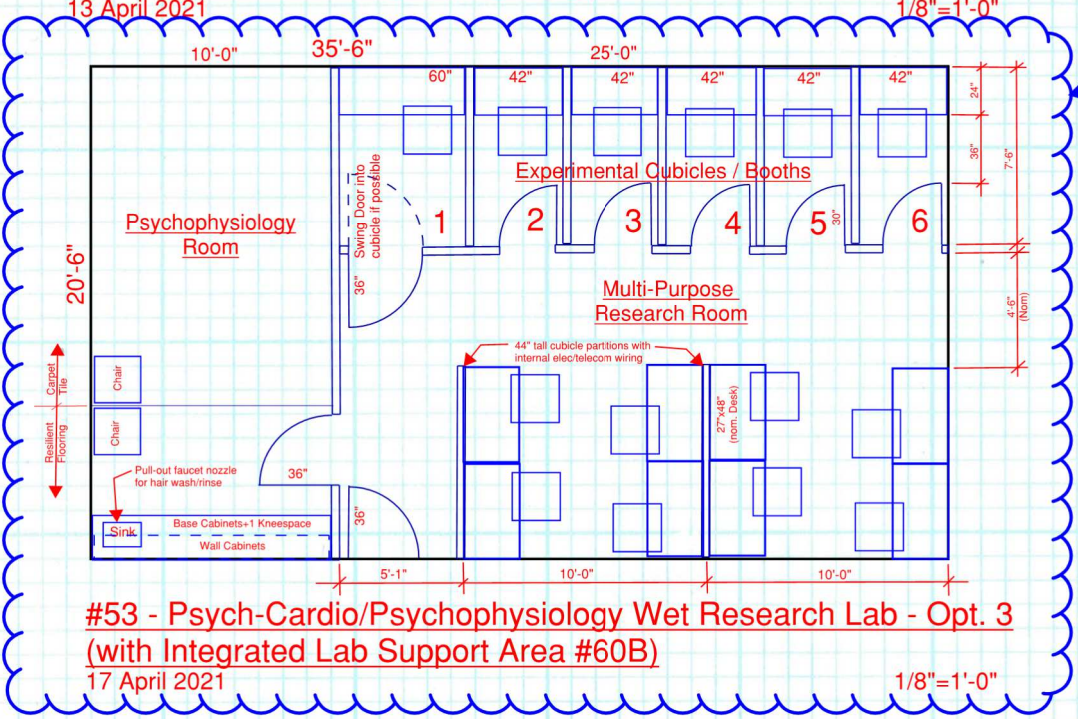
#53 - Psych-Cardio/Psychophysiology Wet Research Lab - Opt. 2
13 April 2021 1/8"=1'-0"



730 ASF (550 ASF Lab Space + 180 ASF Lab Support)



#58B - Psychology Wet Research Lab (with Integrated Lab Support #60B) - Opt. B
13 April 2021 1/8"=1'-0"



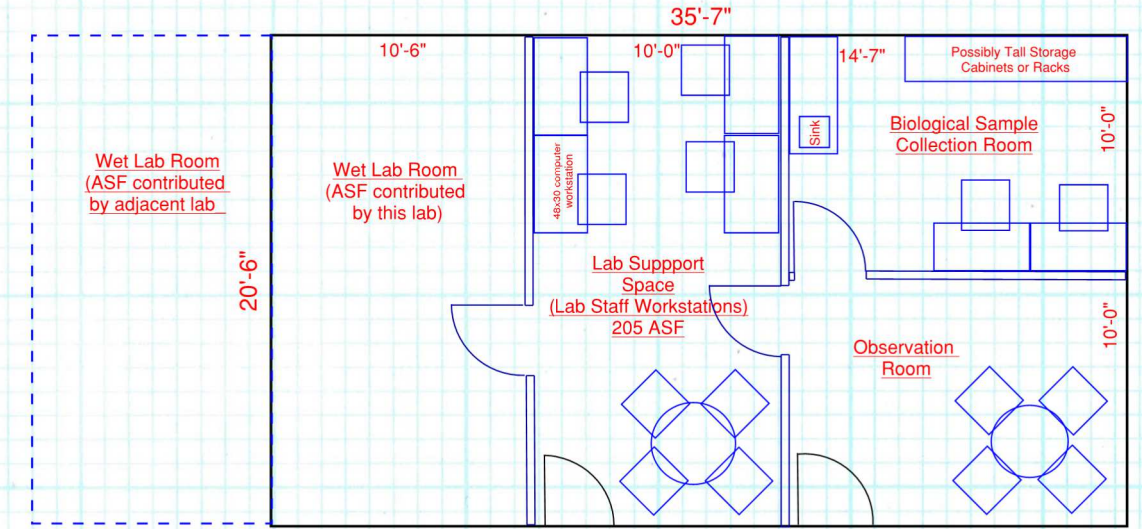
#53 - Psych-Cardio/Psychophysiology Wet Research Lab - Opt. 3
(with Integrated Lab Support Area #60B)
17 April 2021 1/8"=1'-0"

This is the selected plan layout for space #53 from the 4/15 Programming Breakout Meeting

UCM HBS-ME Building Program

#53 - Psych-Cardio/Psychophysiology Wet Research Lab and Associated Lab Support (#60B)

#58B - Psychology Wet Research Labs and Associated Lab Support (#60B)
17 April 2021



#58B - Psychology Wet Research Lab (with Integrated Lab Support #60B) - Opt. C
13 April 2021 1/8"=1'-0"