

Architect's Supplemental Instructions

Architect's Project No:
04561.01

Architect's ASI No: 025

Date Issued: 09/09/2016

Contract Date:

Reason Code: 06 Owner's Scope

Discipline Code: 11 (Plumbing)

Owner:

Webster University

Architect:

Cannon Design
1100 Clark Avenue
St. Louis, MO 63102

Contractor:

Paric Construction

Contract For: General construction

The Work shall be carried out in accordance with the following supplemental instructions issued in accordance with the Contract Documents without change in Contract Sum or Contract Time. Indicate your acceptance of these instructions for minor change to the Work as consistent with the Contract Documents and return a copy to the Architect within fourteen (14) business days of the date of issuance of these instructions. If you feel a change in Contract Sum or Contract Time is warranted, please submit an itemized quotation for the changes for approval within fourteen (14) business days of the date of issuance of these instructions prior to proceeding on the Work. Proceeding with the Work in accordance with these instructions indicates your acknowledgement that there will be no change.

Attachments:

Drawings:

P0105.A – Level 05 Roof Plan Area A – Plumbing
P0111.A – Level 01 Area A Floor Plan – Plumbing Waste and Vent
P0112.A – Level 02 Area A Floor Plan – Plumbing Waste and Vent
P0113.A – Level 03 Area A Floor Plan – Plumbing Waste and Vent
P0114.A – Level 04 Area A Floor Plan – Plumbing Waste and Vent
P0404 Risers – Plumbing
P0406 Risers – Plumbing
P0408 Risers – Plumbing

Exhibit A (reference laboratory plans, architectural drawing series A020X and A061X, 8-1/2"x11" format)

<End of Drawing List>

1100 Clark Avenue
St. Louis, Missouri
63102

T: 314.241.6250

F: 314.241.2570

www.cannondesign.com

Reason Codes:

- #1. Jurisdictional Agency
- #2. Constructor Driven
- #3. Document Inconsistency
- #4. Fast Track Driven
- #5. A/E Scope
- #6. Owners Scope
- #7. Unforeseeable Conditions
- #8. Other

Discipline Codes

- #1. Demo-demolition
- #2. Div1-Division 1 items on the spec book (this item is not used)
- #3. Electrical
- #4. Elevator
- #5. Equipment (Changes in equipment, Owner Purchased)
- #6. Fire Protection

Discipline Codes

- #7. General Construction (Architectural)
- #8. General Conditions (Div. 1)
- #9. HVAC
- #10. Other
- #11. Plumbing
- #12. Site Work/Landscaping
- #13. Structural

Description: ASI – 025

ASI-025 is being issued for the purpose of adding sixteen point-of-use acid neutralization tanks (ANT) and acid vent piping to various laboratories, prep rooms and support spaces.

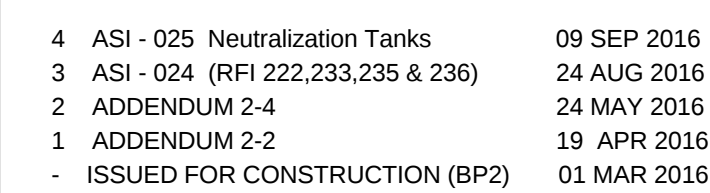
See attached Exhibit A, and the above sheet list for rooms and locations of the point-of-use ANT, acid vent routing, piping diagrams, risers and acid vent through the roof locations.

Note six floor sinks serving glass washers have been removed. Associated waste and vent piping to the floor sinks have been either delete or reduced in size to two-inch diameter. Glass washers are now being piped into the ANT.

Please submit an itemized proposal for changes in contract Sum and Contract Time for proposed modifications to the Contract Documents described herein:

Issued by Architect: Michael R. Whitworth, WES

Accepted by Contractor:



Drawing Title:

**LEVEL 05 ROOF PLAN
AREA A - PLUMBING**

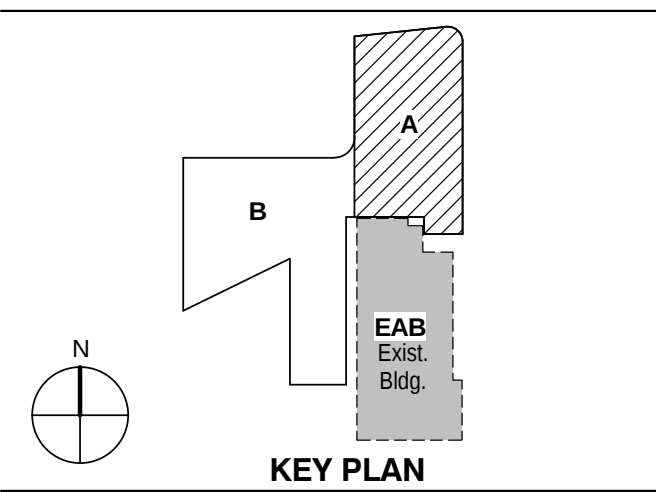
Project No.: 04561.01

Checked by:

P0105.A

6	ASI - 025 Neutralization Tanks	09 SEP 2016
5	ASI - 024 (RFI 222.233.235 & 236)	24 AUG 2016
4	ASI - 014 (RFI-176)	21 JUL 2016
3	ADDENDUM 2-4	24 MAY 2015
2	ADDENDUM 2-2	19 APR 2016
1	ADDENDUM 2-1	17 MAR 2016
-	ISSUED FOR CONSTRUCTION (BP2)	01 MAR 2016

No.	Description	Date
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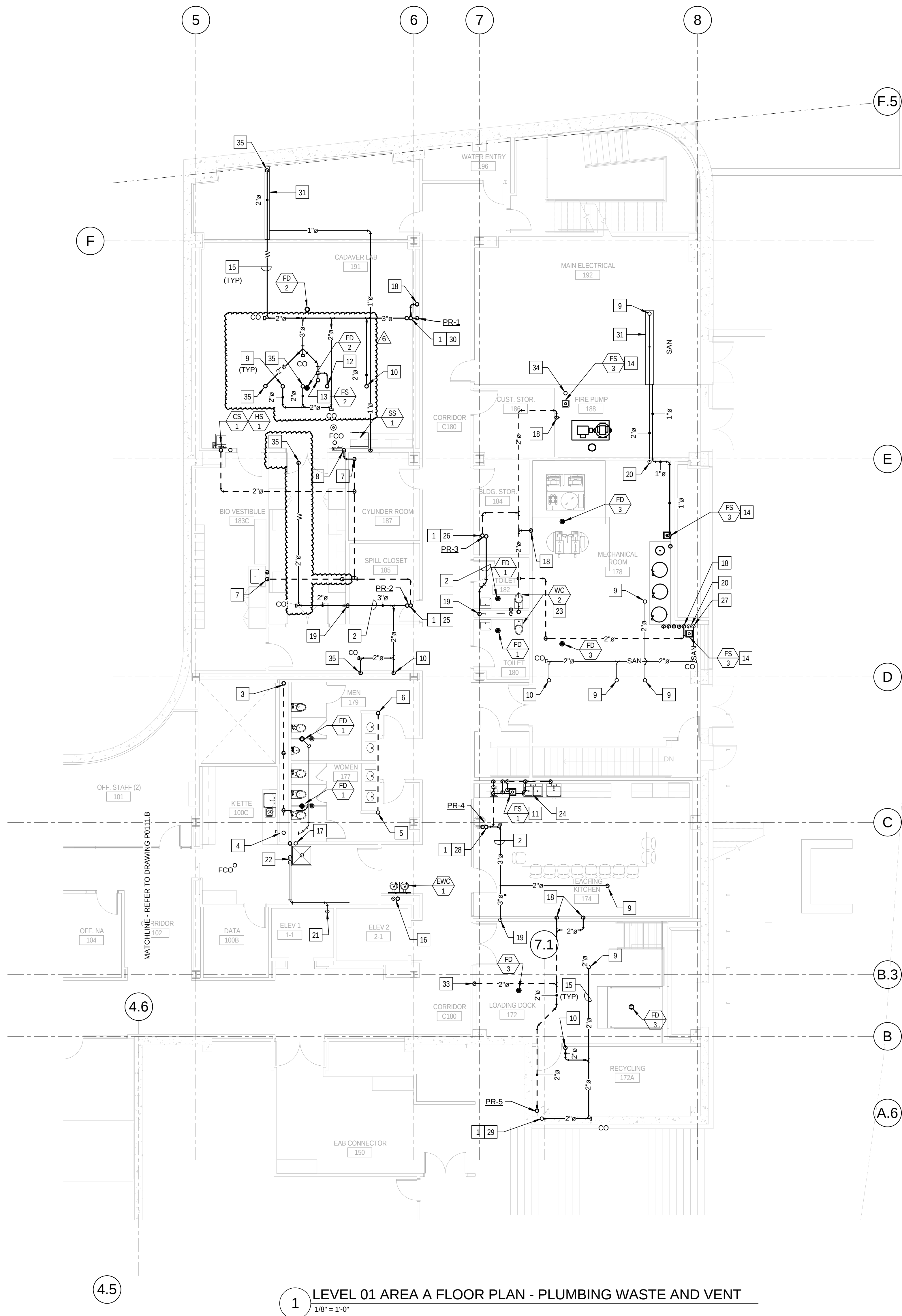


KEY PLAN

LEVEL 01 AREA A FLOOR
PLAN - PLUMBING WASTE
AND VENT

Project No.: 04561.01 Checked by:

P0111.A



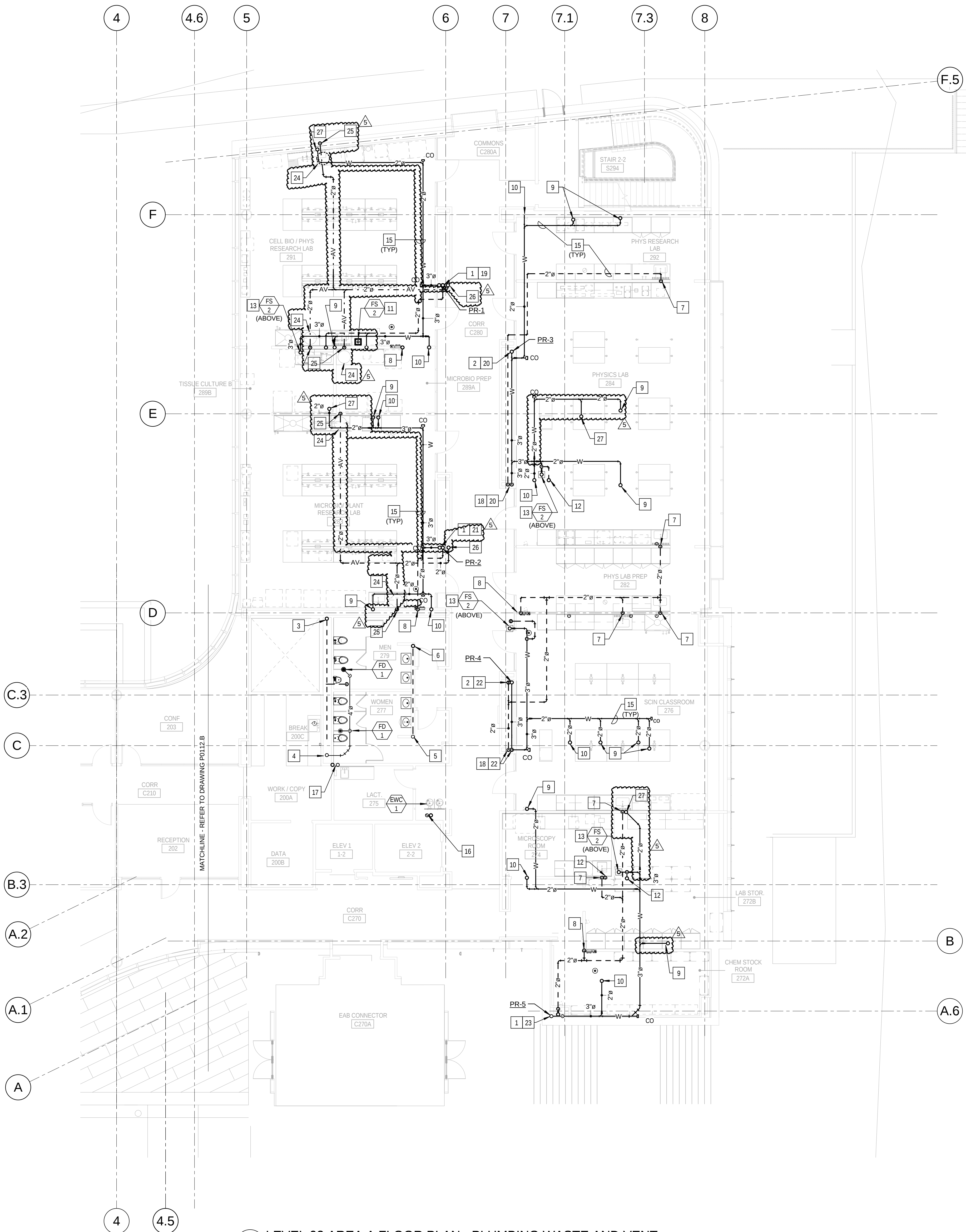
1 LEVEL 01 AREA A FLOOR PLAN - PLUMBING WASTE AND VENT
1/8" = 1'-0"

KEYED NOTES: (THIS SHEET ONLY)

- 3" SANITARY WASTE AND 3" SANITARY VENT RISERS.
- 3" SANITARY WASTE OFF-SET ABOVE THE CEILING TO CONTINUE DOWN TO LEVEL 0.
- 4" SANITARY VENT RISER UP AND DOWN.
- 4" SANITARY WASTE UP AND DOWN. REFER TO DRAWING P0401 FOR RISER DIAGRAM.
- 2" SANITARY WASTE UP AND DOWN. REFER TO DRAWING P0401 FOR RISER DIAGRAM.
- 2" SANITARY VENT UP AND DOWN.
- 2" SANITARY VENT DOWN IN WALL TO SERVE LABORATORY SINK.
- 2" SANITARY VENT DOWN IN WALL TO SERVE EMERGENCY SHOWER.
- 2" SANITARY WASTE UP TO LEVEL 2 LAB SINK.
- 2" SANITARY WASTE UP TO LEVEL 2 EMERGENCY SHOWER EYE/FACE WASH STATION. REFER TO DRAWING P0403 DETAIL 3/ P0403.
- FLOOR SINK TO BE LOCATED BELOW THE CASEWORK TO ACCEPT DISCHARGE FROM THE DISHWASHER AND UNDER COUNTER ICE MAKER. COORDINATE LOCATION WITH CABINET AND APPLIANCES.
- 2" SANITARY VENT UP TO LEVEL 2, ALIGN WITH CASEWORK AND WALL ABOVE.
- FLOOR SINK SET TO SERVE LEVEL 2. COORDINATE LOCATION OF FLOOR SINK WITH CASEWORK ABOVE AND WITH ABOVE CEILING CONDITIONS ON THIS LEVEL.
- FLOOR SINK SET TO SERVE THIS LEVEL.
- PIPING IN EACH ROOM TO BE RUN AS HIGH AS POSSIBLE TO AVOID CONFLICTS. COORDINATE INSTALLATION AND ROUTING WITH OTHER TRADES PRIOR TO ROUGH-IN.
- 2" SANITARY WASTE AND 2" SANITARY VENT RISERS TO SERVE ELECTRIC WATER COOLERS ON EACH LEVEL. REFER TO DRAWING P0401 FOR WASTE AND VENT RISERS.
- 3" SANITARY WASTE AND 2" VENT RISERS TO SERVE MOP BASINS ON LEVELS 1 AND 3 AND COUNTERTOP SINK ON LEVEL 2. REFER TO DRAWING P0401 FOR WASTE AND VENT RISER.
- 2" VENT UP FROM LEVEL 0. REFER TO DRAWING P0011.
- 3" WASTE DOWN TO LEVEL 0. REFER TO DRAWING P0011 FOR CONTINUATION.
- 2" WASTE DOWN TO LEVEL 0. REFER TO DRAWING P0011 FOR CONTINUATION.
- 2" DISCHARGE FROM ELEVATOR SUMP PUMP. EXTEND TO ABOVE THE CEILING OF LEVEL 1 TO JANITOR CLOSET 175.
- TERMINATE ELEVATOR SUMP PUMP DISCHARGE AT THE MOP BASIN WITH AN IN-DIRECT WASTE INTO THE BASIN.
- REFER TO DRAWING P0402 DETAIL 2/ P0402, FOR PLUMBING RISER DIAGRAMS.
- REFER TO DRAWING P0402 DETAIL 1/ P0402, FOR PLUMBING RISER DIAGRAMS.
- REFER TO DRAWING P0404 SANITARY WASTE AND VENT RISER DIAGRAM 2-2.
- REFER TO DRAWING P0406 SANITARY WASTE AND VENT RISER DIAGRAM 3-2.
- REFER TO DRAWING P0406 SANITARY WASTE AND VENT RISER DIAGRAM 3-4.
- REFER TO DRAWING P0408 SANITARY WASTE AND VENT RISER DIAGRAM 4-1.
- REFER TO DRAWING P0408 SANITARY WASTE AND VENT RISER DIAGRAM 5-1.
- REFER TO DRAWING P0404 SANITARY WASTE AND VENT RISER DIAGRAM 1-1.
- TROUGH SAFETY PAN TO BE SUSPENDED BELOW SANITARY WASTE PIPING. EXTEND 1" DRAIN TO SANITARY FLOOD RECEPTOR. REFER TO PLUMBING DRAWING P0503, DETAIL 4.
- NOT USED.
- 2" VENT DOWN IN WALL TO SERVE FLOOR DRAIN IN LOADING DOCK.
- 4" C.I. STANDPIPE FOR SPRINKLER DRAIN. STUB 24" AFF.
- 2" SANITARY WASTE UP TO POINT-OF-USE NEUTRALIZATION TANK.

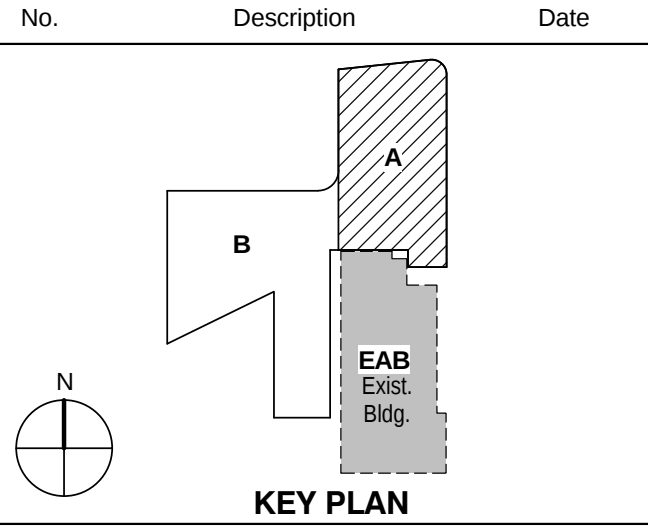
KEYED NOTES: (THIS SHEET ONLY)

- 3" SANITARY WASTE AND 3" SANITARY VENT RISERS.
- 3" SANITARY WASTE AND 3" SANITARY VENT DOWN FROM LEVEL 3. OFF-SET ABOVE THE CEILING TO CONTINUE DOWN.
- 4" SANITARY VENT RISER UP AND DOWN.
- 4" SANITARY WASTE UP AND DOWN. REFER TO DRAWING P0401 FOR RISER DIAGRAMS.
- 2" SANITARY WASTE UP AND DOWN. REFER TO DRAWING P0401 FOR RISER DIAGRAMS.
- 2" SANITARY VENT UP AND DOWN.
- 2" SANITARY VENT DOWN IN WALL TO SERVE LABORATORY SINK.
- 2" SANITARY VENT DOWN IN WALL TO SERVE EMERGENCY SHOWER.
- 2" SANITARY WASTE UP TO LEVEL 3 LAB SINK.
- 2" SANITARY WASTE UP TO LEVEL 3 EMERGENCY SHOWER EYE/FACE WASH STATION. REFER TO DRAWING P0403, DETAIL 3.
- FLOOR SINK TO BE LOCATED BELOW THE CASEWORK TO ACCEPT DISCHARGE FROM THE LAB EQUIPMENT. COORDINATE LOCATION WITH CASEWORK.
- 2" SANITARY VENT UP TO LEVEL 3, ALIGN WITH CASEWORK AND WALL ABOVE. REFER TO DRAWING P0403, DETAIL 3.
- FLOOR SINK SET TO SERVE LEVEL 3. COORDINATE LOCATION OF FLOOR SINK WITH CASEWORK ABOVE AND WITH ABOVE CEILING CONDITIONS ON THIS LEVEL.
- NOT USED.
- PIPING IN EACH ROOM TO BE RUN AS HIGH AS POSSIBLE TO AVOID CONFLICTS. COORDINATE INSTALLATION AND ROUTING WITH OTHER TRADES PRIOR TO ROUGH-IN.
- 2" SANITARY WASTE AND 2" SANITARY VENT RISERS TO SERVE ELECTRIC WATER COOLERS ON EACH LEVEL. REFER TO DRAWING P0401 FOR WASTE AND VENT RISER.
- 3" SANITARY WASTE AND 2" VENT RISERS TO SERVE MOP BASINS ON LEVELS 1 AND 3 AND COUNTERTOP SINK ON LEVEL 2. REFER TO DRAWING P0401 FOR WASTE AND VENT RISER.
- 3" SANITARY WASTE AND 3" SANITARY VENT DOWN.
- REFER TO DRAWING P0404 SANITARY WASTE AND VENT RISER DIAGRAM 1-2.
- REFER TO DRAWING P0406 SANITARY WASTE AND VENT RISER DIAGRAM 3-1.
- REFER TO DRAWING P0404 SANITARY WASTE AND VENT RISER DIAGRAM 2-3.
- REFER TO DRAWING P0408 SANITARY WASTE AND VENT RISER DIAGRAM 4-2.
- REFER TO DRAWING P0408 SANITARY WASTE AND VENT RISER DIAGRAM 5-2.
- 5-GALLON NEUTRALIZATION TANK WITH SLIP-ON COVER. LOCATED BELOW THE COUNTERTOP. REFER TO DRAWING P0404, DETAILS 1 AND 2 FOR PIPING DIAGRAM INSTALLATION.
- 2" ACID VENT DOWN IN WALL TO SERVE NEUTRALIZATION TANK.
- 2" ACID VENT RISER.
- 2" SANITARY WASTE UP TO POINT-OF-USE NEUTRALIZATION TANK.



1 LEVEL 02 AREA A FLOOR PLAN - PLUMBING WASTE AND VENT
1/8" = 1'-0"

5	ASI - 025 Neutralization Tanks	09 SEP 2016
4	ASI - 014 (RFI-176)	21 JUL 2016
3	ADDENDUM 2-4	24 MAY 2015
2	ADDENDUM 2-2	19 APR 2016
1	ADDENDUM 2-1	17 MAR 2016
-	ISSUED FOR CONSTRUCTION (BP2)	01 MAR 2016



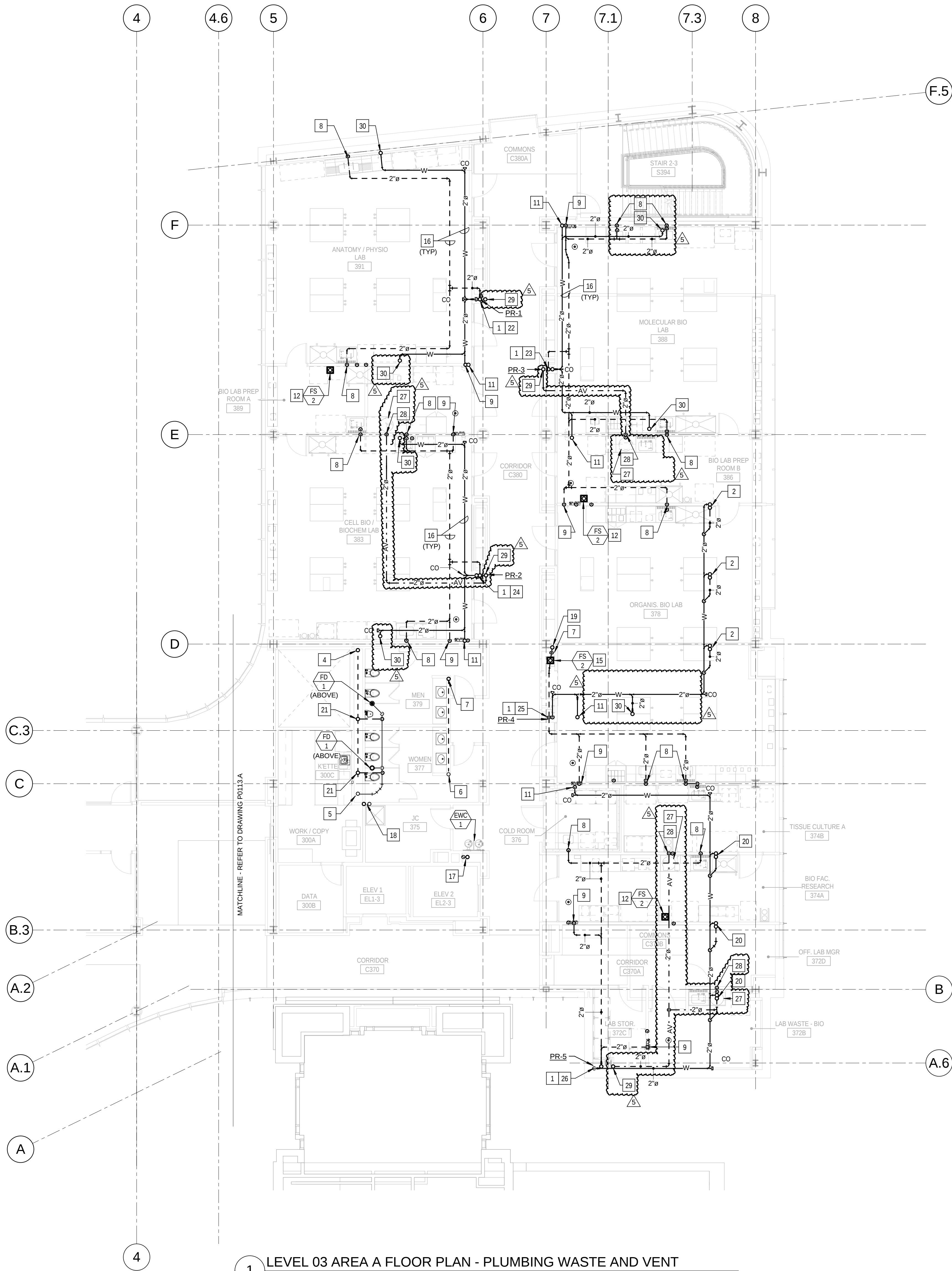
LEVEL 02 AREA A FLOOR
PLAN - PLUMBING WASTE
AND VENT

Project No.: 04561.01 Checked by:

P0112.A

KEYED NOTES: (THIS SHEET ONLY)

- 3" SANITARY WASTE AND 3" SANITARY VENT RISERS.
- 2" SANITARY WASTE AND 2" SANITARY VENT UP TO ISLAND LAB BENCH SINKS ABOVE. EXTEND THE VENT UP TO BELOW THE COUNTERTOP BEFORE RETURNING DOWN. PROVIDE CLEANOUTS TEES IN WASTE AND VENT PIPING IN CABINET BELOW THE SINK. EXTEND AND CONNECT VENT RETURN TO THE SANITARY WASTE BELOW THE FLOOR, FIVE FOOT DOWN-STREAM.
- 3" SANITARY WASTE AND 3" SANITARY VENT DOWN FROM LEVEL 3. OFF-SET ABOVE THE CEILING TO CONTINUE DOWN.
- 4" SANITARY VENT RISER UP AND DOWN.
- 4" SANITARY WASTE UP AND DOWN. REFER TO DRAWING P0401 FOR RISER DIAGRAMS.
- 2" SANITARY WASTE UP AND DOWN. REFER TO DRAWING P0401 FOR RISER DIAGRAMS.
- 2" SANITARY VENT UP AND DOWN.
- 2" SANITARY VENT DOWN IN WALL TO SERVE LABORATORY SINK.
- 2" SANITARY VENT DOWN IN WALL TO SERVE EMERGENCY SHOWER.
- 2" SANITARY WASTE UP TO LEVEL 4 LAB SINK.
- 2" SANITARY WASTE UP TO LEVEL 4 EMERGENCY SHOWER EYE/FACE WASH STATION.
- FLOOR SINK TO BE LOCATED BELOW THE CASEWORK TO ACCEPT DISCHARGE FROM THE LAB EQUIPMENT. COORDINATE LOCATION WITH CASEWORK.
- 2" SANITARY VENT UP TO LEVEL 4, ALIGN WITH CASEWORK AND WALL ABOVE.
- FLOOR SINK SET TO SERVE LEVEL 4. COORDINATE LOCATION OF FLOOR SINK WITH CASEWORK ABOVE AND WITH ABOVE CEILING CONDITIONS ON THIS LEVEL.
- NOT USED.
- PIPING IN EACH ROOM TO BE RUN AS HIGH AS POSSIBLE TO AVOID CONFLICTS. COORDINATE INSTALLATION AND ROUTING WITH OTHER TRADES PRIOR TO ROUGH-IN.
- 2" SANITARY WASTE AND 2" SANITARY VENT RISERS TO SERVE ELECTRIC WATER COOLERS ON EACH LEVEL. REFER TO DRAWING P0401 FOR WASTE AND VENT RISER.
- 3" SANITARY WASTE AND 2" VENT RISERS TO SERVE MOP BASINS ON LEVELS 1 AND 3 AND COUNTERTOP SINK ON LEVEL 2. REFER TO DRAWING P0401 FOR WASTE AND VENT RISER.
- 3" SANITARY VENT UP TO LEVEL 4. REFER TO DRAWING P0114.A.
- 2" SANITARY WASTE AND 2" SANITARY VENT UP TO ISLAND LAB BENCH SINKS AND CUP SINKS ABOVE. EXTEND THE VENT UP TO BELOW THE COUNTERTOP BEFORE RETURNING DOWN. PROVIDE CLEANOUTS TEES IN WASTE AND VENT PIPING IN CABINET BELOW THE SINK. EXTEND AND CONNECT VENT RETURN TO THE SANITARY WASTE BELOW THE FLOOR, FIVE FOOT DOWN-STREAM.
- 2" SANITARY VENT UP IN PLUMBING CHASE.
- REFER TO DRAWING P0404 SANITARY WASTE AND VENT RISER DIAGRAM 1-3.
- REFER TO DRAWING P0406 SANITARY WASTE AND VENT RISER DIAGRAM 3-3.
- REFER TO DRAWING P0404 SANITARY WASTE AND VENT RISER DIAGRAM 2-4.
- REFER TO DRAWING P0408 SANITARY WASTE AND VENT RISER DIAGRAM 4-3.
- REFER TO DRAWING P0408 SANITARY WASTE AND VENT RISER DIAGRAM 5-3.
- 5-GALLON NEUTRALIZATION TANK WITH SLIP-ON COVER, LOCATED BELOW THE COUNTERTOP. REFER TO DRAWING P0404, DETAILS 1 AND 2 FOR PIPING DIAGRAM INSTALLATION.
- 2" ACID VENT DOWN IN WALL TO SERVE NEUTRALIZATION TANK.
- 2" ACID VENT RISER.
- 2" SANITARY WASTE UP TO POINT-OF-USE NEUTRALIZATION TANK.



1 LEVEL 03 AREA A FLOOR PLAN - PLUMBING WASTE AND VENT
1/8" = 1'-0"

5	ASI - 025 Neutralization Tanks	09 SEP 2016
4	ASI - 014 (RFI-176)	21 JUL 2016
3	ADDENDUM 2-4	24 MAY 2015
2	ADDENDUM 2-2	19 APR 2016
1	ADDENDUM 2-1	17 MAR 2016
-	ISSUED FOR CONSTRUCTION (BP2)	01 MAR 2016

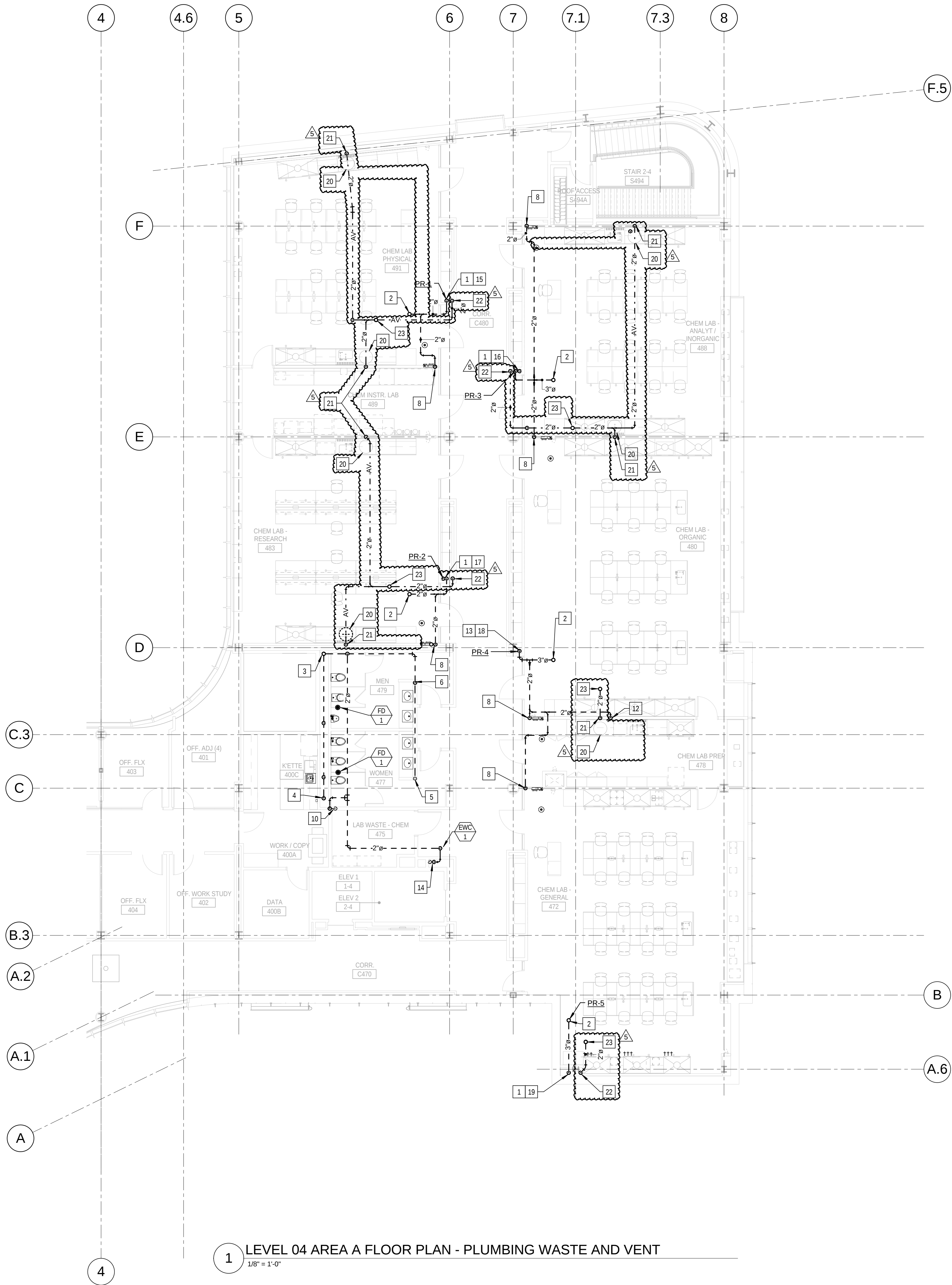
No.	Description	Date
KEY PLAN		

Drawing Title:

LEVEL 03 AREA A FLOOR
PLAN - PLUMBING WASTE
AND VENT

Project No.: 04561.01 Checked by:

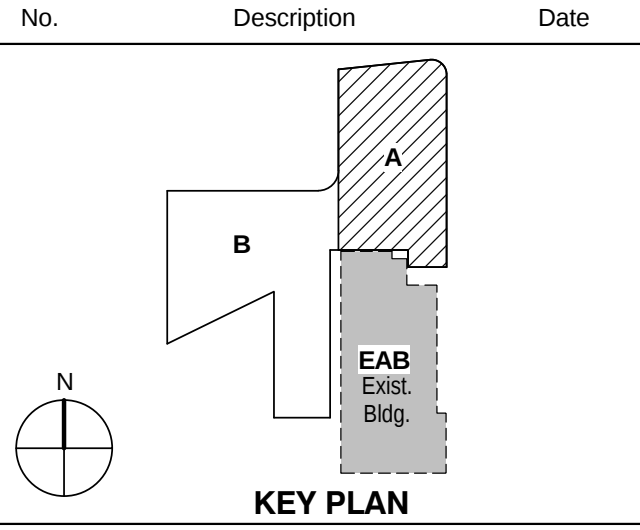
P0113.A



KEYED NOTES: (THIS SHEET ONLY)

- 1 3" SANITARY WASTE DOWN AND 3" SANITARY VENT UP
- 2 3" SANITARY VENT UP, 3" VTR.
- 3 4" SANITARY VENT RISER, EXTEND FULL SIZE THROUGH THE ROOF.
- 4 4" SANITARY WASTE DOWN, 4" SANITARY VENT UP, EXTEND IN CHASE FULL SIZE TO VENT STACK. REFER TO DRAWING P0401 FOR RISER DIAGRAMS.
- 5 2" SANITARY WASTE DOWN, 2" SANITARY VENT UP, EXTEND IN CHASE FULL SIZE TO VENT STACK. REFER TO DRAWING P0401 FOR RISER DIAGRAMS.
- 6 2" SANITARY VENT UP TO ABOVE THE CEILING, EXTEND AS SHOWN.
- 7 NOT USED.
- 8 2" SANITARY VENT DOWN IN WALL TO SERVE EMERGENCY SHOWER.
- 9 NOT USED.
- 10 3" SANITARY WASTE DOWN, 2" SANITARY VENT UP. REFER TO DRAWING P0401 FOR WASTE AND VENT RISER.
- 11 FLOOR SINK TO BE LOCATED BELOW THE CASEWORK TO ACCEPT DISCHARGE FROM LAB EQUIPMENT. COORDINATE LOCATION WITH CASEWORK.
- 12 2" SANITARY VENT UP IN WALL.
- 13 2" SANITARY VENT UP FROM LEVEL 3. REFER TO DRAWING P113.A FOR OFF-SET AT LEVEL 3.
- 14 2" SANITARY WASTE DOWN, 2" SANITARY VENT UP. REFER TO DRAWING P0401 FOR WASTE AND VENT RISER.
- 15 REFER TO DRAWING P0404 SANITARY WASTE AND VENT RISER DIAGRAM 1-3.
- 16 REFER TO DRAWING P0406 SANITARY WASTE AND VENT RISER DIAGRAM 3-3.
- 17 REFER TO DRAWING P0404 SANITARY WASTE AND VENT RISER DIAGRAM 2-4.
- 18 REFER TO DRAWING P0408 SANITARY WASTE AND VENT RISER DIAGRAM 4-3.
- 19 REFER TO DRAWING P0408 SANITARY WASTE AND VENT RISER DIAGRAM 5-3.
- 20 5-GALLON NEUTRALIZATION TANK WITH SLIP-ON COVER, LOCATED BELOW THE COUNTERTOP. REFER TO DRAWING P0404, DETAILS 1 AND 2 FOR PIPING DIAGRAM INSTALLATION.
- 21 2" ACID VENT DOWN IN WALL TO SERVE NEUTRALIZATION TANK.
- 22 2" ACID VENT RISER.
- 23 2" ACID VENT UP, 3" AVTR.

5	ASI - 025 Neutralization Tanks	09 SEP 2016
4	ASI - 014 (RFI-176)	21 JUL 2016
3	ADDENDUM 2-4	24 MAY 2015
2	ADDENDUM 2-2	19 APR 2016
1	ADDENDUM 2-1	17 MAR 2016
-	ISSUED FOR CONSTRUCTION (BP2)	01 MAR 2016



LEVEL 04 AREA A FLOOR PLAN - PLUMBING WASTE AND VENT

Project No.: 04561.01 Checked by:

P0114.A

3	ASI - 025 Neutralization Tanks	09 SEP 2016
2	ADDENDUM 2-1	24 MAY 2016
1	ADDENDUM 2-2	19 APR 2016
-	ISSUED FOR CONSTRUCTION (BP2)	01 MAR 2016
No.	Description	Date

Drawing Title:

RISERS - PLUMBING

Project No.: 04561.01

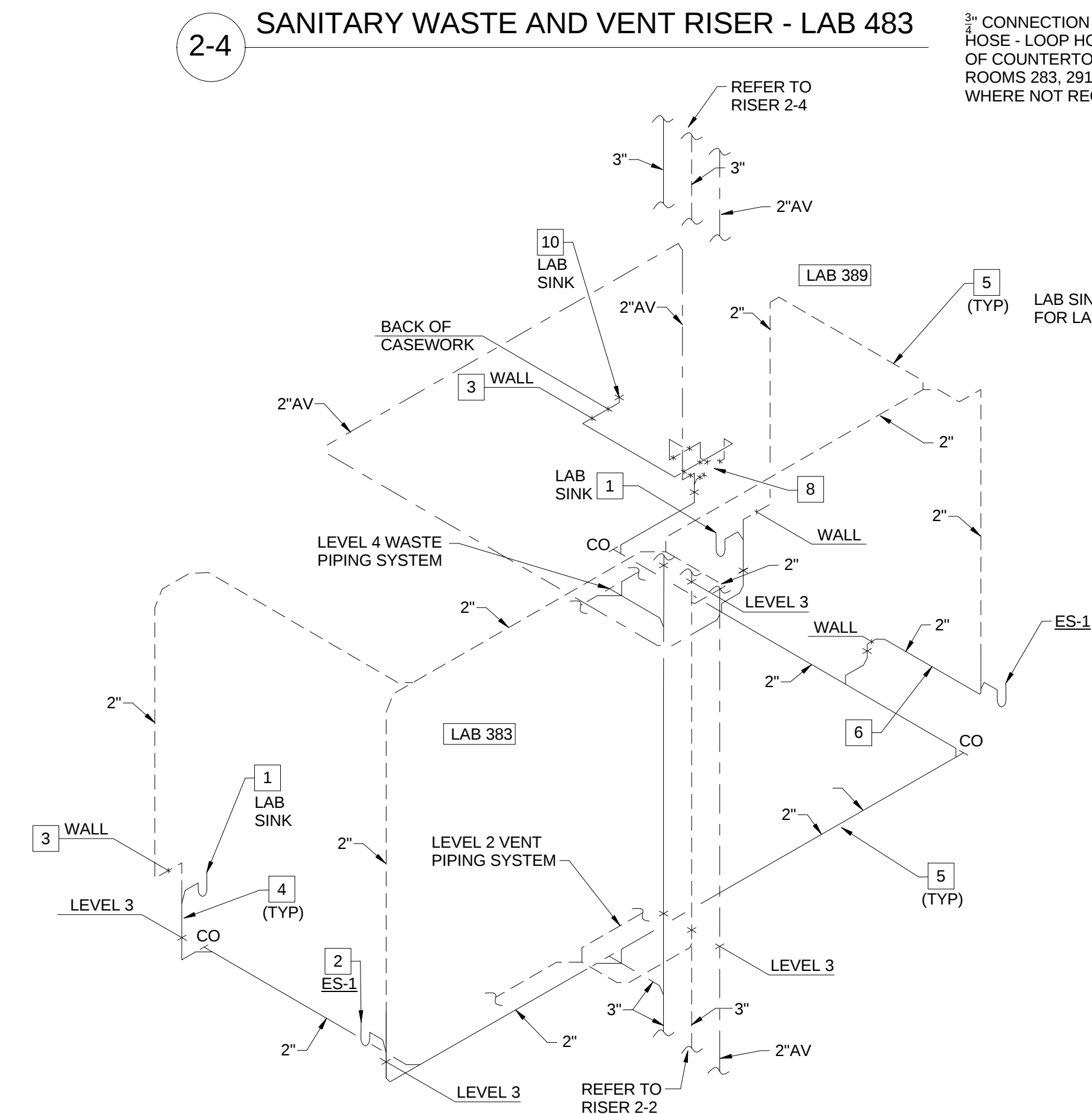
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P0404

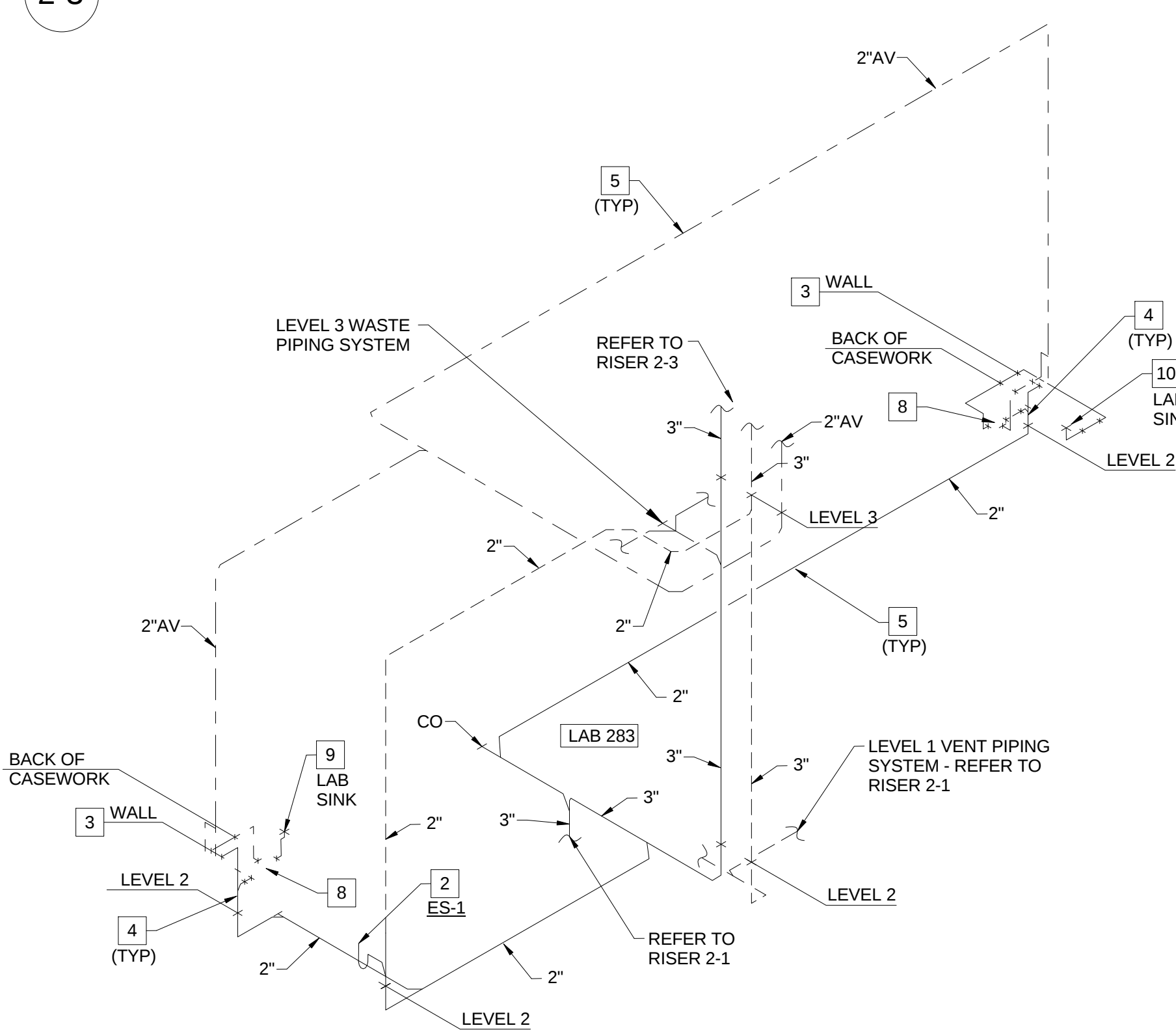
KEYED NOTES (THIS SHEET ONLY)

- 1 REFER TO DRAWING P0503, DETAIL 2/P0503 FOR TYPICAL LAB SINK WASTE CONNECTION DETAIL.
- 2 REFER TO DRAWING P0403, DETAIL 3/P0403 FOR TYPICAL EMERGENCY SHOWER PIPING DIAGRAM. COORDINATE PENETRATION THROUGH THE FLOOR WITH THE STRUCTURE BELOW AND THE ARCHITECTURAL DRAWINGS. OFF-SET THE PIPING AS REQUIRED.
- 3 OFF-SET VENT PIPING INTO THE WALL CAVITY TO EXTEND ABOVE THE CEILING. TYPICAL FOR LAB SINKS OR WHERE APPLICABLE.
- 4 WASTE PIPING TO BE LOCATED IN THE UTILITY SPACE BETWEEN THE WALL AND BACK OF CASEWORK. COORDINATE PENETRATION THROUGH THE FLOOR WITH THE STRUCTURE BELOW AND THE ARCHITECTURAL DRAWINGS. OFF-SET PIPING AS REQUIRED. TYPICAL FOR LAB SINKS OR WHERE APPLICABLE.
- 5 COORDINATE ROUTING AND INSTALLATION OF THE WASTE AND VENT PIPING ABOVE THE CEILING WITH STRUCTURAL ELEMENTS AND OTHER TRADES ON THIS PROJECT. HOLD PIPING AS HIGH AS POSSIBLE, WHERE POSSIBLE. TYPICAL FOR ALL ABOVE THE CEILING PIPING.
- 6 EXTEND WASTE FROM EMERGENCY SHOWER HORIZONTAL IN WALL CAVITY TO AN AREA BEHIND THE LABORATORY CASE WORK. TURN PIPING OUT OF WALL WITHIN UTILITY SPACE BEHIND THE CASEWORK TO TURN DOWN THROUGH THE FLOOR. COORDINATE PENETRATION THROUGH THE FLOOR WITH THE STRUCTURE BELOW AND THE ARCHITECTURAL DRAWINGS. OFF-SET PIPING AS REQUIRED.
- 7 LAB SINK TO BE CONNECTED TO POINT-OF-USE NEUTRALIZATION TANK REMOTE FROM THE SINK LOCATION. COORDINATE WITH THE ARCHITECTURAL DRAWINGS FOR THE CASEWORK. REFER TO DRAWING P0404, DETAIL 1/P0404 FOR TYPICAL PIPING DIAGRAM. PIPING TO BE ADJUSTED AS REQUIRED FOR EACH LOCATION.
- 8 POINT-OF-USE NEUTRALIZATION TANK. COORDINATE LOCATION AND PLACEMENT WITH WITH CASEWORK. CONSIDERATION SHALL BE GIVEN FOR SERVICE AND MAINTENANCE ACCESSIBILITY.
- 9 LAB SINK TO BE CONNECTED TO POINT-OF-USE NEUTRALIZATION TANK BELOW THE SINK. COORDINATE WITH THE ARCHITECTURAL DRAWINGS FOR THE CASEWORK. REFER TO DRAWING P0404, DETAIL 2/P0404 FOR TYPICAL PIPING DIAGRAM. PIPING TO BE ADJUSTED AS REQUIRED FOR EACH LOCATION.
- 10 LAB SINK AND GLASS WASHER TO BE CONNECTED TO POINT-OF-USE NEUTRALIZATION TANK REMOTE FROM THE SINK LOCATION. COORDINATE WITH THE ARCHITECTURAL DRAWINGS FOR THE CASEWORK. REFER TO DRAWING P0404, DETAIL 1/P0404 FOR TYPICAL PIPING DIAGRAM. PIPING TO BE ADJUSTED AS REQUIRED FOR EACH LOCATION.

2-4 SANITARY WASTE AND VENT RISER - LAB 483



2-3 SANITARY WASTE AND VENT RISER - LAB 383 AND PREP 389



2-2 SANITARY WASTE AND VENT RISER - LAB 283



PLUMBING WASTE AND VENT FOR PLUMBING RISER PR-2

SCALE: N.T.S.

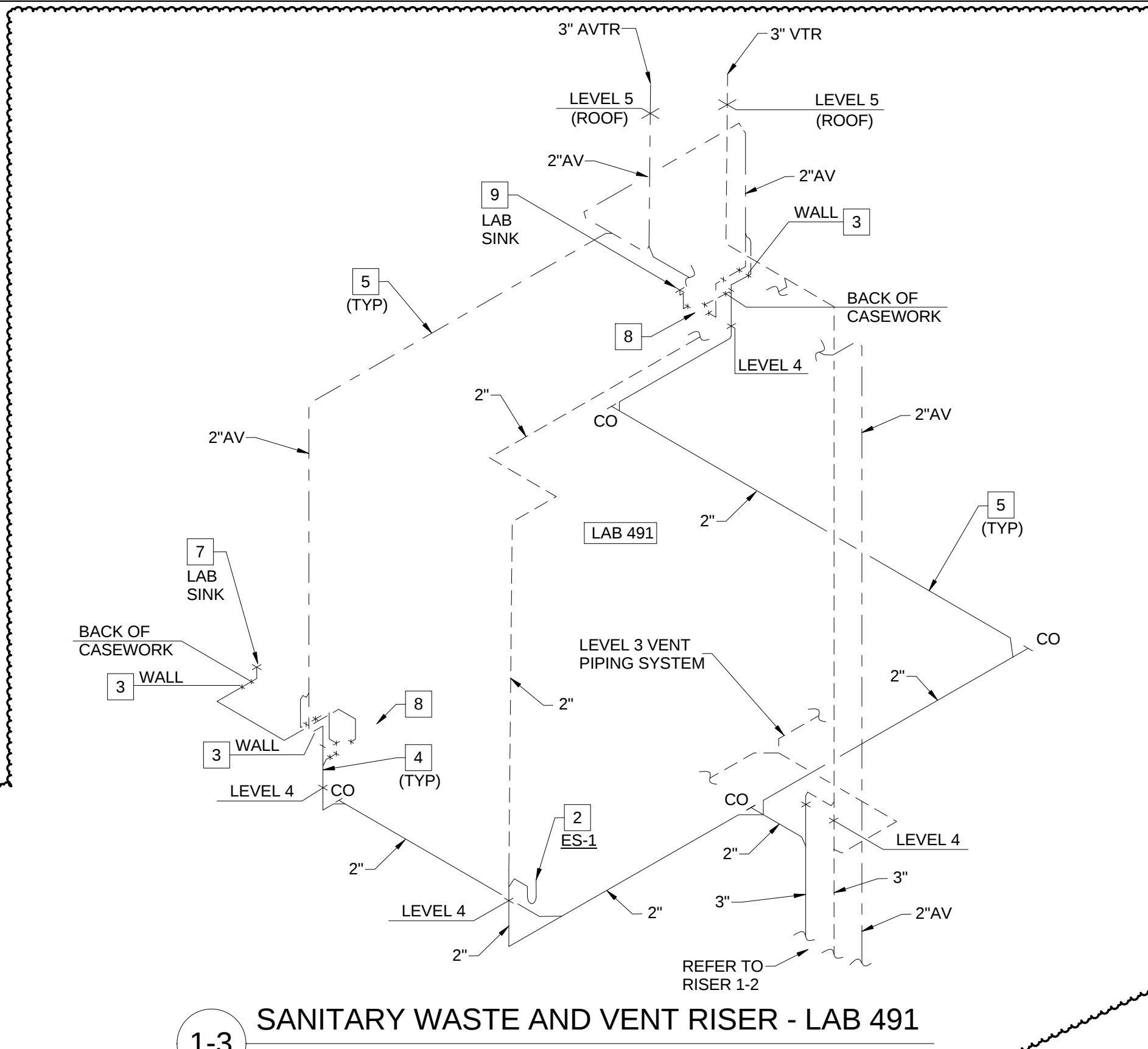
2-1 SANITARY WASTE AND VENT RISER - VESTIBULE 183C AND LAB 191



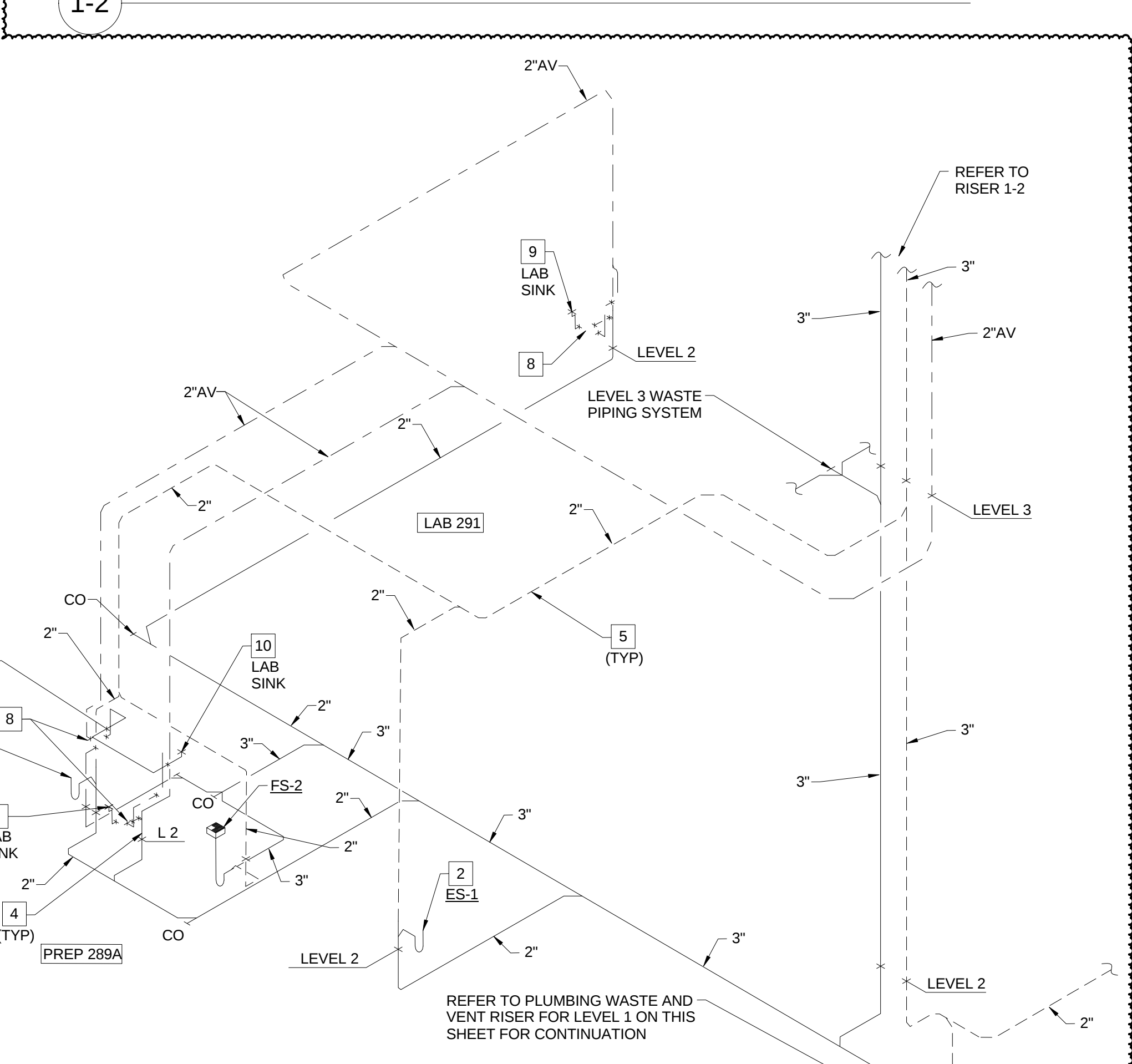
PLUMBING WASTE AND VENT RISERS FOR PLUMBING RISERS PR-1 AND PR-2

SCALE: N.T.S.

1-3 SANITARY WASTE AND VENT RISER - LAB 491



1-2 SANITARY WASTE AND VENT RISER - PREP 389 AND LAB 391



1-1 SANITARY WASTE AND VENT RISER - PREP 289A, PREP 289B AND LAB 291



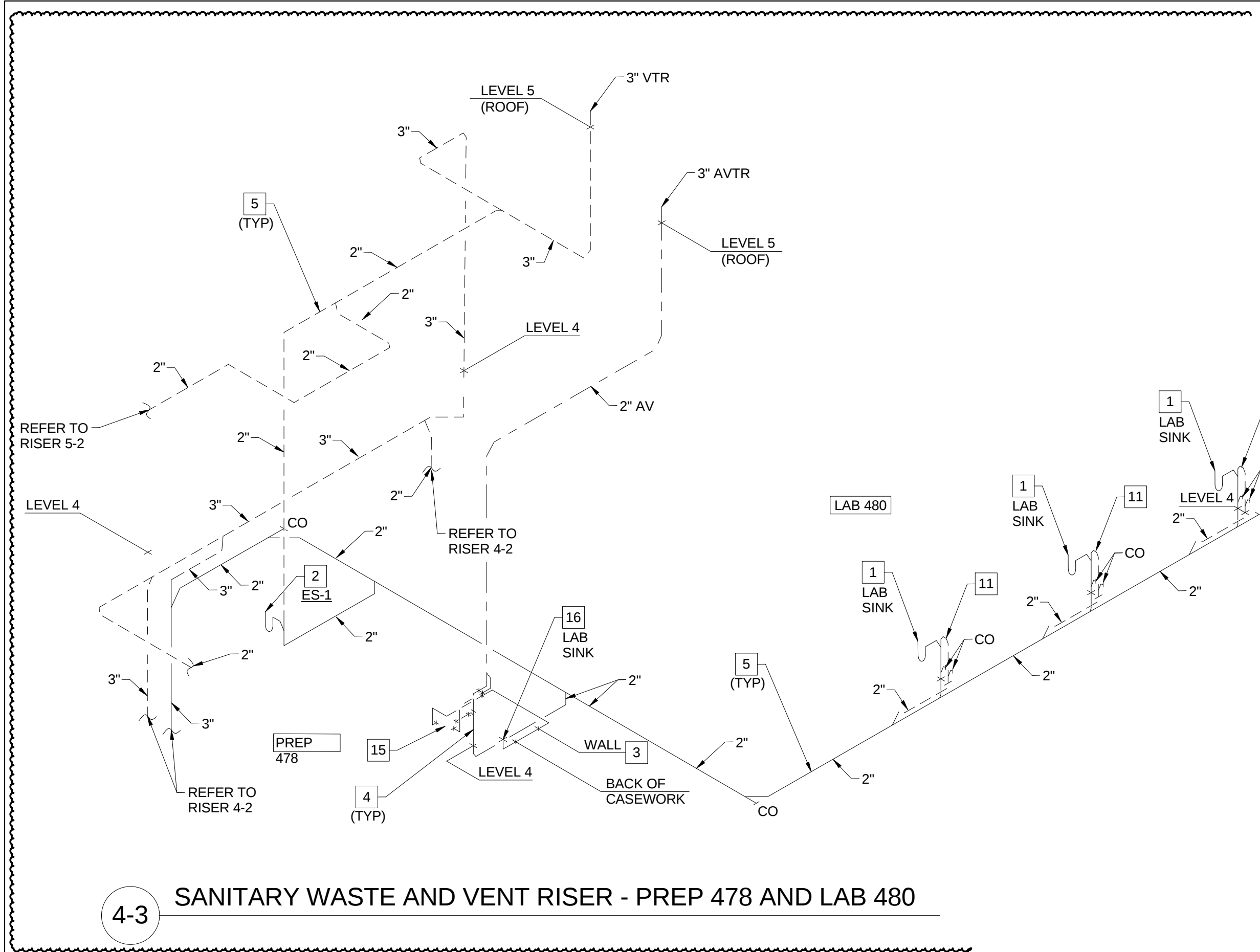
PLUMBING WASTE AND VENT FOR PLUMBING RISER PR-1

SCALE: N.T.S.

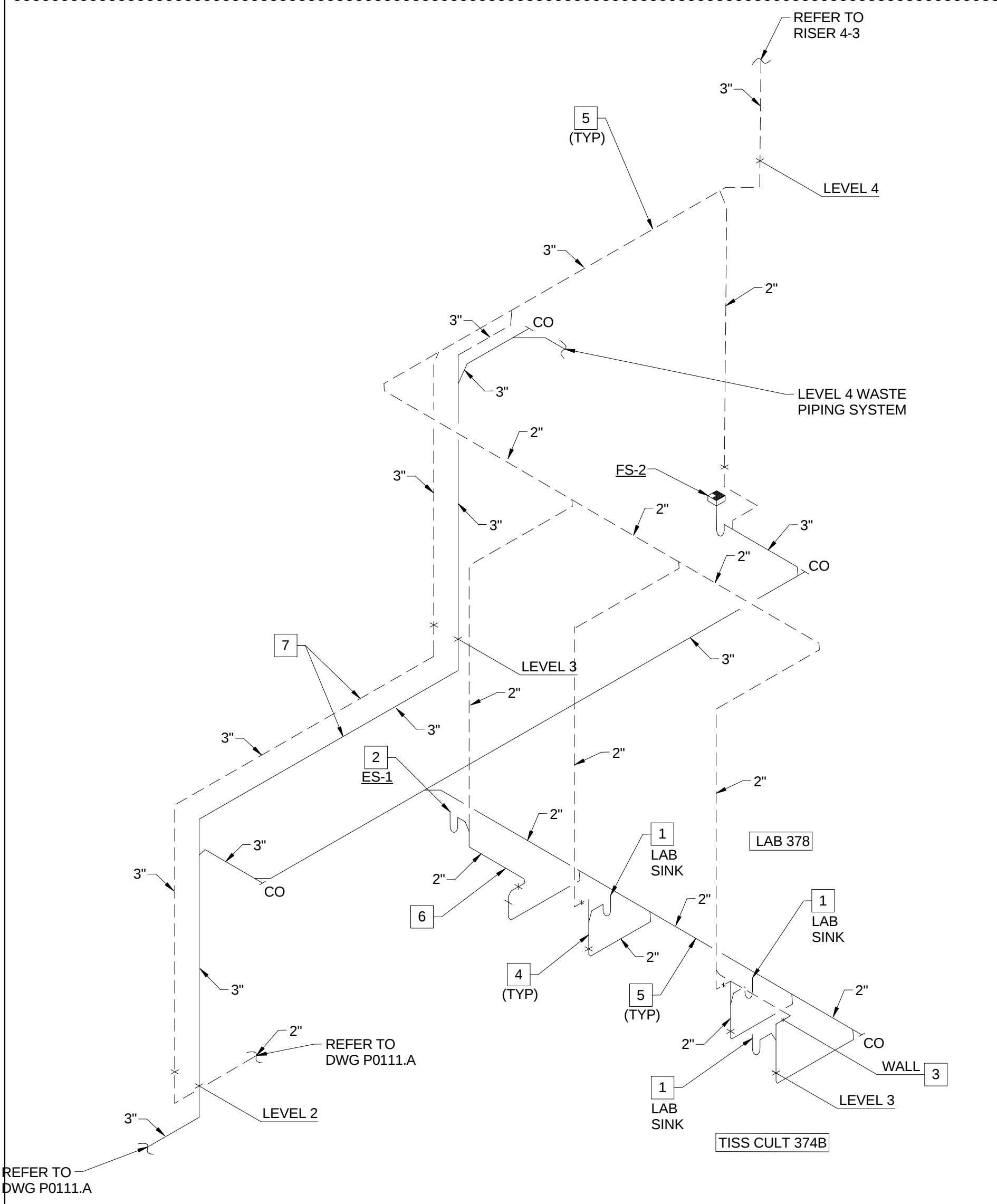


- | | |
|----|--|
| 1 | REFER TO DRAWING P0503, DETAIL 2/P0503 FOR TYPICAL LAB SINK WASTE CONNECTION DETAIL. |
| 2 | REFER TO DRAWING P0403, DETAIL 3/P0403 FOR TYPICAL EMERGENCY SHOWER PIPING DIAGRAM. COORDINATE PENETRATION THROUGH THE FLOOR WITH THE STRUCTURE BELOW AND THE ARCHITECTURAL DRAWINGS. OFF-SET THE PIPING AS REQUIRED. |
| 3 | OFF-SET VENT PIPING INTO THE WALL CAVITY TO EXTEND ABOVE THE CEILING. TYPICAL FOR LAB SINKS OR WHERE APPLICABLE. |
| 4 | WASTE PIPING TO BE LOCATED IN THE UTILITY SPACE BETWEEN THE WALL AND BACK OF CASEWORK. COORDINATE PENETRATION THROUGH THE FLOOR WITH THE STRUCTURE BELOW AND THE ARCHITECTURAL DRAWINGS. OFF-SET PIPING AS REQUIRED. TYPICAL FOR LAB SINKS OR WHERE APPLICABLE. |
| 5 | COORDINATE ROUTING AND INSTALLATION OF THE WASTE AND VENT PIPING ABOVE THE CEILING WITH STRUCTURAL ELEMENTS AND OTHER TRADES ON THIS PROJECT. HOLD PIPING AS HIGH AS POSSIBLE, WHERE POSSIBLE. TYPICAL FOR ALL ABOVE THE CEILING PIPING. |
| 6 | EXTEND WASTE FROM EMERGENCY SHOWER HORIZONTAL IN WALL CAVITY TO AN AREA BEHIND THE LABORATORY CASE WORK. TURN PIPING OUT OF WALL WITHIN UTILITY SPACE AND CASEWORK TO TURN DOWN THROUGH THE FLOOR. COORDINATE PENETRATION THROUGH THE FLOOR WITH THE STRUCTURE BELOW AND THE ARCHITECTURAL DRAWINGS. OFF-SET PIPING AS REQUIRED. |
| 7 | 3" WASTE AND 3" VENT TO BE OFF-SET AT LEVEL 2 TO CONTINUE DOWN. COORDINATE INSTALLATION AND ROUTING WITH STRUCTURE AND BUILDING CONDITIONS. |
| 8 | 2" VENT IN PLUMBING CHASE SERVING PLUMBING FIXTURE IN TOILET ROOMS 180 / 182. |
| 9 | 3" WASTE DOWN TO LEVEL 0 IN PLUMBING CHASE OF TOILET ROOMS 180 / 182. |
| 10 | 3" VENT EXTENDED HIGH IN SPACE. |
| 11 | 3" WASTE TO BE OFF-SET AT LEVEL 1 TO CONTINUE DOWN. COORDINATE INSTALLATION AND ROUTING WITH STRUCTURE AND BUILDING CONDITIONS. |
| 12 | 2" VENT UP FROM LEVEL 0 SERVING FLOOR DRAINS IN MECHANICAL ROOM 178. |
| 13 | 2" VENT UP FROM LEVEL 0 SERVING FLOOR SINK IN FIRE PUMP ROOM 188, AND FLOOR DRAINS ON LEVEL 0. |
| 14 | 2" VENT FROM LEVEL 0 FLOOR DRAINS |
| 15 | 2" VENT FROM SUMP PUMP SP-3, ON LEVEL 0. |
| 16 | 2" VENT FROM SUMP PUMPS SP-1 / SP-2 ON LEVEL 0. |
| 17 | 2" VENT FROM SAND INTERCEPTOR ON LEVEL 0. |
| 18 | 2" PUMP DISCHARGE FROM SUMP PUMP SP-3 ON LEVEL 0. TERMINATE INTO FLOOR SINK FS-3 ON LEVEL 1 AS AN INDIRECT WASTE. |
| 19 | 4 INCH CAST IRON OPEN STANDPIPE DRAIN - STUB TOP OF PIPE TWO-FOOT ABOVE FINISHED FLOOR. COORDINATE LOCATION WITH THE GENERAL CONTRACTOR AND FIRE SUPPRESSION CONTRACTOR. |
| 20 | LAB SINK TO BE CONNECTED TO POINT-OF-USE NEUTRALIZATION TANK REMOTE FROM THE SINK LOCATION. COORDINATE WITH THE ARCHITECTURAL DRAWINGS FOR THE CASEWORK. REFER DRAWING P0404, DETAIL 1/P0404 FOR TYPICAL PIPING DIAGRAM. PIPING TO BE ADJUSTED AS REQUIRED FOR EACH LOCATION. |
| 21 | POINT-OF-USE NEUTRALIZATION TANK. COORDINATE LOCATION AND PLACEMENT WITH THE CASEWORK. CONSIDERATION SHALL BE GIVEN FOR SERVICE AND MAINTENANCE ACCESSIBILITY. |
| 22 | LAB SINK AND GLASS WASHER TO BE CONNECTED TO POINT-OF-USE NEUTRALIZATION TANK REMOTE FROM THE SINK LOCATION. COORDINATE WITH THE ARCHITECTURAL DRAWINGS FOR THE CASEWORK. REFER DRAWING P0404, DETAIL 1/P0404 FOR TYPICAL PIPING DIAGRAM. PIPING TO BE ADJUSTED AS REQUIRED FOR EACH LOCATION. |





4-3 SANITARY WASTE AND VENT RISER - PREP 478 AND LAB 480



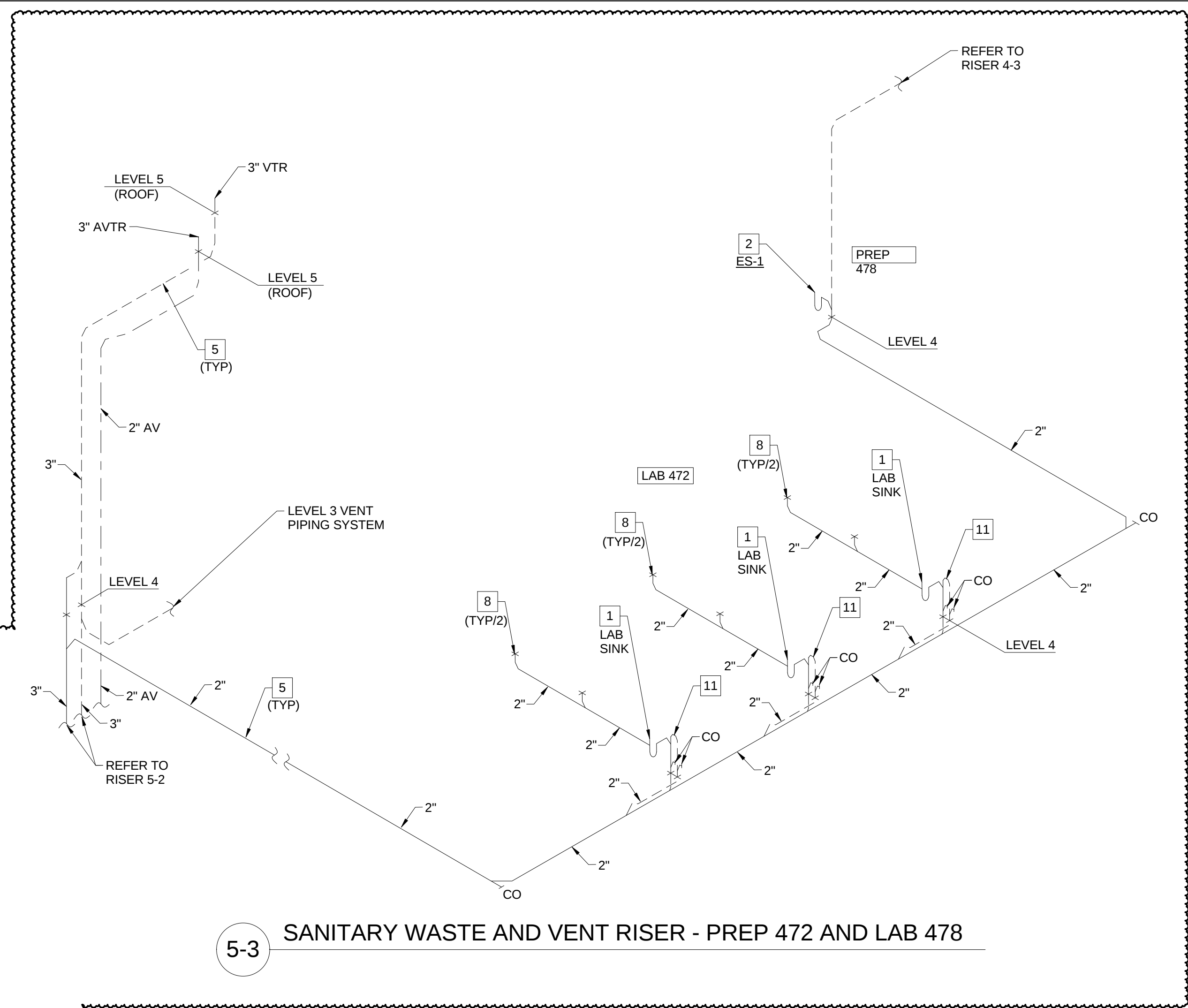
4-2 SANITARY WASTE AND VENT RISER - TISSUE CULTURE 374B AND LAB 378



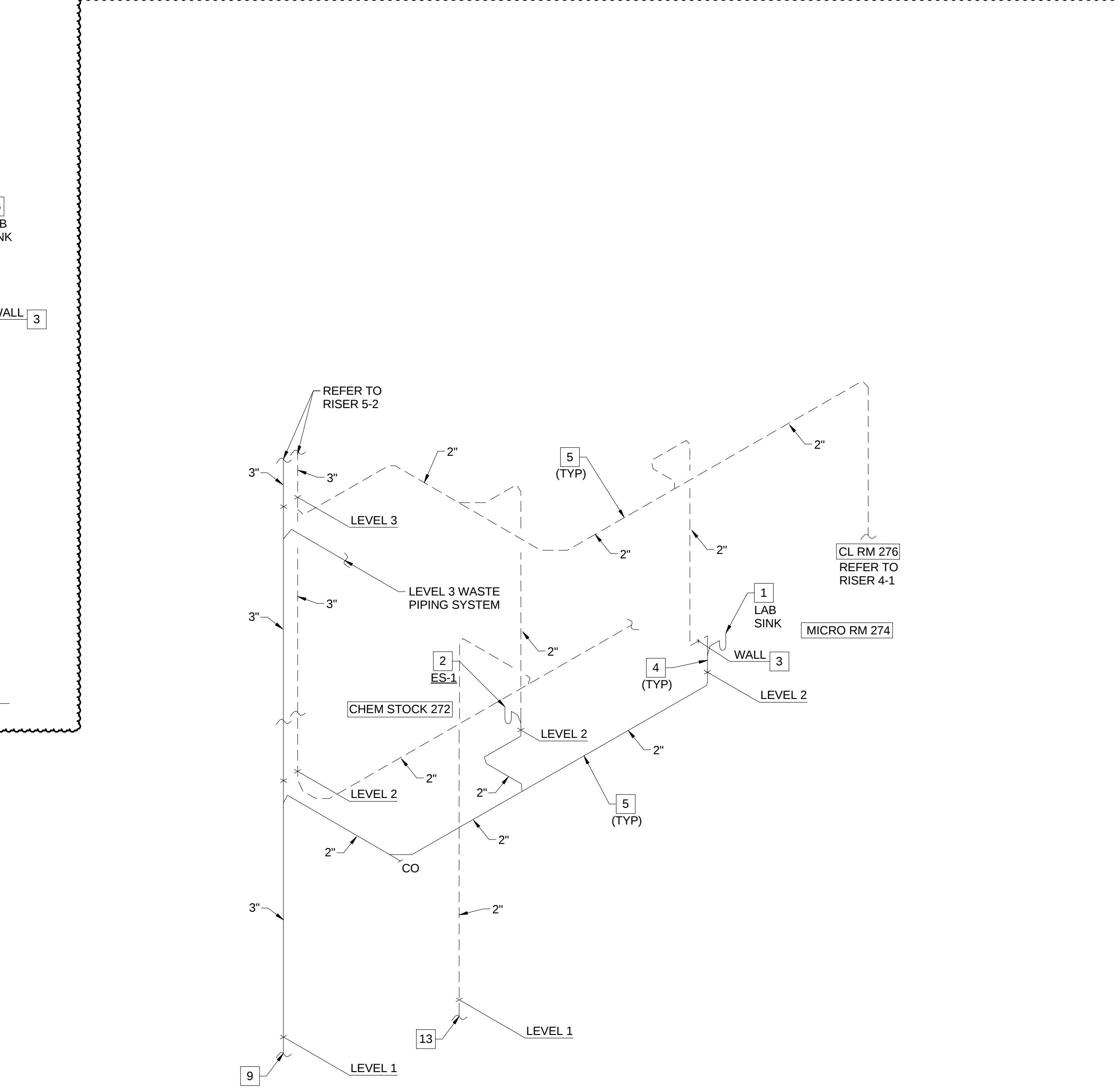
4-1 SANITARY WASTE AND VENT RISER - CLASSROOM 276

PLUMBING WASTE AND VENT RISERS FOR PLUMBING RISER PR-4

- KEYED NOTES (THIS SHEET ONLY)
- 1 REFER TO DRAWING P0503, DETAIL 2/P0503 FOR TYPICAL LAB SINK WASTE CONNECTION DETAIL.
 - 2 REFER TO DRAWING P0403, DETAIL 3/P0403 FOR TYPICAL EMERGENCY SHOWER PIPING DIAGRAM. COORDINATE PENETRATION THROUGH THE FLOOR WITH THE STRUCTURE BELOW AND THE ARCHITECTURAL DRAWINGS, OFF-SET THE PIPING AS REQUIRED.
 - 3 OFF-SET VENT PIPING INTO THE WALL CAVITY TO EXTEND ABOVE THE CEILING. TYPICAL FOR LAB SINKS OR WHERE APPLICABLE.
 - 4 WASTE PIPING TO BE LOCATED IN THE UTILITY SPACE BETWEEN THE WALL AND BACK OF CASEWORK. COORDINATE PENETRATION THROUGH THE FLOOR WITH THE STRUCTURE BELOW AND THE ARCHITECTURAL DRAWINGS, OFF-SET PIPING AS REQUIRED.
 - 5 COORDINATE ROUTING AND INSTALLATION OF THE WASTE AND VENT PIPING ABOVE THE CEILING WITH STRUCTURAL ELEMENTS AND OTHER TRADES ON THIS PROJECT. HOLD PIPING AS HIGH AS POSSIBLE, WHERE POSSIBLE. TYPICAL FOR ALL ABOVE THE CEILING PIPING.
 - 6 EXTEND WASTE FROM EMERGENCY SHOWER HORIZONTAL IN WALL CAVITY TO AN AREA BEHIND THE LABORATORY CASE WORK. TURN PIPING OUT OF WALL WITHIN UTILITY SPACE BEHIND THE CASEWORK TO TURN DOWN THROUGH THE FLOOR. COORDINATE PENETRATION THROUGH THE FLOOR WITH THE STRUCTURE BELOW AND THE ARCHITECTURAL DRAWINGS, OFF-SET PIPING AS REQUIRED.
 - 7 3" WASTE AND 3" VENT TO BE OFF-SET AT LEVEL 2 TO CONTINUE DOWN. COORDINATE INSTALLATION AND ROUTING WITH STRUCTURE AND BUILDING CONDITIONS.
 - 8 INTEGRAL BENCH TOP CUP SINK, ROUTE WASTE PIPING IN UTILITY CHASE IN CASEWORK. COORDINATE INSTALLATION WITH CASEWORK AND OTHER UTILITIES WITHIN THIS SOACE.
 - 9 3" WASTE DOWN TO LEVEL 0.
 - 10 3" WASTE TO BE OFF-SET AT LEVEL 1 TO CONTINUE DOWN. COORDINATE INSTALLATION AND ROUTING WITH STRUCTURE AND BUILDING CONDITIONS.
 - 11 2" WASTE AND 2" VENT WITHIN CABINET BELOW LAB SINK. EXTEND THE VENT UP TO BELOW THE COUNTERTOP BEFORE DOWN. PROVIDE CLEANOUT TEES IN WASTE AND VENT PIPING. EXTEND AND CONNECT VENT RETURN TO THE UNDER FLOOR WASTE PIPING FIVE FEET DOWN-STREAM.
 - 12 PROVIDE LAB SINK TAIL PIECE WITH SIDE CONNECTION FOR CONDENSATE WASTE. COORDINATE WITH MECHANICAL CONTRACTOR.
 - 13 2" VENT FROM LOADING DOCK 172 FLOOR DRAINS.
 - 14 LAB SINK TO BE CONNECTED TO POINT-OF-USE NEUTRALIZATION TANK REMOTE FROM THE SINK LOCATION. COORDINATE WITH THE ARCHITECTURAL DRAWINGS FOR THE CASEWORK. REFER TO DRAWING P0404, DETAIL 1/P0404 FOR TYPICAL PIPING DIAGRAM. PIPING TO BE ADJUSTED AS REQUIRED FOR EACH LOCATION.
 - 15 POINT-OF-USE NEUTRALIZATION TANK. COORDINATE LOCATION AND PLACEMENT WITH WITH CASEWORK. CONSIDERATION SHALL BE GIVEN FOR SERVICE AND MAINTENANCE ACCESSIBILITY.
 - 16 LAB SINK AND GLASS WASHER TO BE CONNECTED TO POINT-OF-USE NEUTRALIZATION TANK REMOTE FROM THE SINK LOCATION. COORDINATE WITH THE ARCHITECTURAL DRAWINGS FOR THE CASEWORK. REFER TO DRAWING P0404, DETAIL 1/P0404 FOR TYPICAL PIPING DIAGRAM. PIPING TO BE ADJUSTED AS REQUIRED FOR EACH LOCATION.



5-3 SANITARY WASTE AND VENT RISER - PREP 472 AND LAB 478



5-1 SANITARY WASTE AND VENT RISER - CHEM STOCK 272, MIRCO 274 AND CLASSROOM 276

PLUMBING WASTE AND VENT RISERS FOR PLUMBING RISER PR-5

Location of Point of Use Neutralization Tanks at Lab Sinks in ISB:

<u>Room Number</u>	<u>Room Name</u>	<u>Chemicals Down Sinks</u>	<u>Number of Sinks</u>	<u>Explanation</u>
283	Microbio/Plant Research Lab	yes	2	diluted non-hazardous chemicals
289a	Microbiology Research Prep Lab	yes	1	neutralized acids, diluted non-hazardous chemicals
291	Cell Bio/Physiology Research Lab	yes	2	neutralized acids, diluted non-hazardous chemicals
372b	Biology Waste	yes	1	neutralized acids, diluted non-hazardous chemicals
374a	Biology Faculty Research	yes	1	neutralized acids, diluted non-hazardous chemicals
386	Biology Lab Prep Room B	yes	1	neutralized acids, diluted non-hazardous chemicals
389	Biology Lab Prep Room A	yes	1	neutralized acids, diluted non-hazardous chemicals
478	Chemistry Lab Prep Room	yes	1	neutralized acids, diluted non-hazardous chemicals
483	Chemistry Research Lab	yes	2	neutralized acids, diluted non-hazardous chemicals
488	Analytic/Inorganic Chemistry Teaching Lab	yes	2	neutralized acids, diluted non-hazardous chemicals
491	Physical Chemistry Teaching Lab	yes	2	neutralized acids, diluted non-hazardous chemicals

Room 283: 2 sinks (sheet A0204)

- 1) Standard sink - Acid Neutralization Tank (ANT) under sink.
- 2) ADA sink - Glass washer between sink and ANT.

Room 289A: 1 sink (sheet A0204)

- 1) Standard sink - ANT under sink.

Room 291: 2 sinks (sheet A0204)

- 1) Standard sink - ANT under sink.
- 2) ADA sink - Glass washer between sink and ANT.

Room 372B: 1 sink (sheet A0205)

- 1) ADA sink - adjacent 3-drawers need to be revised to drawer & cabinet for ANT.

Room 374A: 1 sink (sheet A0205)

- 1) ADA sink - Glass washer between sink and ANT.

Room 386: 1 sink (sheet A0206)

- 1) ADA sink - Adjacent cabinet for ANT.

Room 389: 1 sink (sheet A0206)

- 1) ADA sink - Glass washer between sink and ANT.

Room 478: 1 sink (sheet A0207)

- 1) ADA sink - select location ???
Glass washer between sink and ANT.
OR
Adjacent cabinet for ANT.

Room 483: 2 sinks (sheet A0208)

- 1) Standard sink - ANT under sink.
- 2) ADA sink - Adjacent cabinet for ANT.

Room 488: 2 sinks (sheet A0207)

- 1) Standard sink - ANT under sink.
- 2) ADA sink - Adjacent cabinet for ANT.

Room 491: 2 sinks (sheet A0208)

- 1) Standard sink - ANT under sink.
- 2) ADA sink - Adjacent cabinet for ANT.

ASI-025 EXHIBIT - A

(Date - 09-09-16)

LEGEND

	SINKS WITH ACID NEUTRALIZATION TANK
	PROPOSED LOCATION FOR NEUTRALIZATION TANK
	GLASS WASHER

NO (ANT) ON
THIS SHEET



LAB KEYED NOTE LEGEND

- # LAB KEYED NOTE LEGEND
- | | |
|------|---|
| L.1 | WRITABLE AND PROJECTABLE SURFACE, DIMENSIONS AS NOTED |
| L.2 | RECESSED, CEILING MOUNTED PROJECTION SCREEN |
| L.3 | WALL MOUNTED PROJECTOR |
| L.4 | EMERGENCY SAFETY SHOWER WITH EYEWASH |
| L.5 | 151313 CHEMICAL FUME HOOD W/ STORAGE BELOW. TYPICAL FUME HOOD TO HAVE ELECTRIC AND UTILITIES AS INDICATED. |
| L.6 | WOOD LAB CASEWORK MICROSCOPE CAB |
| L.7 | WOOD LAB CASEWORK TAIL CABINET WITH OPEN CUBBIES FOR BOOK BAG STORAGE. |
| L.8 | 11 51313 CHEMICAL FUME HOOD - ACCESSIBLE - WITH MOBILE STATION BELOW. WITH SHOWN - TYPICAL FUME HOOD TO HAVE ELECTRIC, AND UTILITIES AS INDICATED. |
| L.9 | CABS BELOW WHITEBOARD |
| L.10 | GAMERA FOR SKYPE INTERVIEW |
| L.11 | CABS AS CYLINDER STORAGE RACK (FCI), CYLINDERS TO BE "O2" |
| L.12 | RECESSED MOTORIZED ROOM DARKENING / BLACKOUT GAS USE DOUBLE GLAZING WITH TAIL GLASSROOMS LEVEL 02 AND LECTURE HALL REFER TO REFLECTED CEILING PLANS LCD MONITOR |
| L.13 | MOBILE LABORATORY CASEWORK SYSTEM. SEE DETAIL DWG#011 |
| L.14 | MOVEABLE WOOD LABORATORY CASEWORK. TABLE WITH MODIFIED EPOXY COUNTERTOP. CABINETS SUSPENDED 18" AS INDICATED |
| L.15 | FIXED WOOD LABORATORY CASEWORK. CABS CABINETS, MODIFIED EPOXY COUNTERTOP. WALL CABINETS AS SHOWN ON SECTION |
| L.16 | SEE CEILING PLAN FOR CEILING MOUNTED UNISTRUT SYSTEM SUPPORTED BY STRUCTURE ABOVE |
| L.17 | 8" DEEP x 6" HIGH TRENCH WITH METAL COVER TO RECEIVE FLOOR FINISH TO MATCH ADJACENT FLOOR |
| L.18 | FLOOR BOX FOR ELECTRICAL, & DATA |
| L.19 | 90 6666 DRY ERASE FINISH (AWG-1) |
| L.20 | 30" DEEP BLACK GLASS 100% GLASS MOUNTING HEIGHT - 3'-0" TO TOP OF EXTINGUISHER FIRE EXTINGUISHER IS BRACKET BY SNOOKLE |
| L.21 | POINT EXHAUST (SNORKEL) FOR SOLDERING. SEE DETAIL 5.5 |

LAB UTILITY LEGEND

- | | |
|-----|--|
| OW | WATER COLD WATER FAUCET, DECK MOUNTED GOOSENECK WITH SPRAYED NOZZLE, VACUUM BREAKER |
| W-1 | WATER GENERAL MIXING FAUCET, DECK MOUNTED WITH SPRAYING BREAKER, SPRAYED NOZZLE |
| D-1 | WATER DI WATER FAUCET, DECK MOUNTED |
| PWS | WATER PROCESS COLD WATER SUPPLY |
| W-2 | WATER PROCESS HOT WATER SUPPLY |
| EW | WATER WYSSCH'S, DECK MOUNTED, AUTOFLOW SWING-DOWN |
| DH | WATER DRENCH HOSE |
| V | VACUUM FUME HOOD CONTROL |
| V-3 | VACUUM FUME HOOD, SINGLE SERVED OUTLET |
| V-4 | VACUUM FUME HOOD, SINGLE SERVED OUTLET |
| V-4 | VACUUM FUME HOOD, SINGLE SERVED OUTLET |
| V-4 | VACUUM FUME HOOD, SINGLE SERVED OUTLET |
| V-4 | VACUUM FUME HOOD, SINGLE SERVED OUTLET |
| V-4 | VACUUM FUME HOOD, SINGLE SERVED OUTLET |
| A-1 | AIR TURRET BASE, SINGLE SERVED OUTLET |
| A-3 | AIR WALL MOUNTED, SINGLE SERVED OUTLET |
| A-3 | AIR WALL MOUNTED, SINGLE SERVED OUTLET |
| A-5 | AIR WALL MOUNTED, SINGLE SERVED OUTLET |
| A-5 | AIR WALL MOUNTED, SINGLE SERVED OUTLET |
| A-5 | AIR WALL MOUNTED, SINGLE SERVED OUTLET |
| N | NITROGEN COUNTERMOUNT PEDESTAL, (1) DUPLEX ELECTRICAL OUTLET (GF) ON FUME HOOD |
| E-1 | ELECT. COUNTERMOUNT MOUNTED PEDESTAL, (1) DUPLEX ELECTRICAL OUTLET |
| E-2 | ELECT. COUNTERMOUNT MOUNTED PEDESTAL, (2) DUPLEX ELECTRICAL OUTLET |
| E-3 | ELECT. COUNTERMOUNT MOUNTED PEDESTAL, (1) DUPLEX ELECTRICAL OUTLET |
| E-4 | ELECT. COUNTERMOUNT MOUNTED PEDESTAL, (1) DUPLEX ELECTRICAL OUTLET |
| E-5 | ELECT. COUNTERMOUNT MOUNTED PEDESTAL, (1) DUPLEX ELECTRICAL OUTLET ON OVERHEAD SERVICE |
| E-6 | ELECT. COUNTERMOUNT MOUNTED PEDESTAL, (1) DUPLEX ELECTRICAL OUTLET ON TABLE APPRAISAL |
| D-1 | DATA DATA OUTLET |
| D-2 | DATA DATA OUTLET MOUNTED PEDESTAL, (2) DATA OUTLETS |
| D-5 | DATA DATA OUTLET ON OVERHEAD SERVICE CARRIER |
| D-6 | DATA DATA OUTLET ON TABLE APPRAISAL |
| CS | CUP SINK LIPPED MODIFIED EPOXY CUP SINK, 9Lx3Wx10" (DROP-IN) |
| S-1 | SINK LIPPED MODIFIED EPOXY SINK, 25Lx15Wx10" (DROP-IN) |
| S-2 | SINK LIPPED MODIFIED EPOXY SINK, 25Lx15Wx10" (DROP-IN) |
| S-3 | SINK LIPPED MODIFIED EPOXY SINK, 25Lx15Wx10" (DROP-IN) |
| S-4 | SINK LIPPED MODIFIED EPOXY SINK, 25Lx15Wx10" (DROP-IN) |
| S-5 | SINK LIPPED MODIFIED EPOXY SINK, 25Lx15Wx10" (DROP-IN) |
| S-6 | SINK LIPPED MODIFIED EPOXY SINK, 18Lx15Wx10" (DROP-IN) |
| S-6 | SINK LIPPED MODIFIED EPOXY SINK, 18Lx15Wx10" (DROP-IN) |
| OSC | OVERHEAD SERVICE CARRIER, SEE DETAIL 10/A913 |
| PTD | PAPER TOWEL DISPENSER |

CHEMICAL FUME HOOD LEGEND

- CFH-4 4'-0" WIDE CHEMICAL FUME HOOD
CFH-6 6'-0" WIDE CHEMICAL FUME HOOD

LAB GENERAL NOTES

11. ALL DIMENSIONS ARE TO GWB FACE PARTITION OR COLUMN CENTER LINE UNLESS NOTED OTHERWISE.
12. OWNER FURNISHED EQUIPMENT INSTALLED (OFOI) ITEMS ARE SHOWN DASHED FOR REFERENCE TO SIZE AND LOCATION.
13. ALL EQUIPMENT INSTALLATION REQUIREMENTS WITH OWNER'S REPRESENTATIVE.
14. CENTER ALL DRYING RACKS WITH DROP STOP TROUBLES ABOUT 18" FROM SIDE WALLS.
15. ALL APRONS AT OPEN KNEE SPACE TO BE 2' 4" U.O.C. PROVIDE APRON OF SOLID WOOD WITH EASED BOTTOM EDGE. FINISH TO MATCH SURFACE SPECIFICATIONS.
16. ALL APRONS TO BE 2' 4" U.O.C. PROVIDE 2" CLEAR ABOVE FLOOR FINISH.
17. ALL COUNTERTOP MOUNTED UTILITY OUTLETS ON CENTER OF CASEWORK U.O.C.
18. ALL SURFACE MOUNTED RACEWAY TO HAVE OUTLETS AT 2' 4" O.C. PROVIDE 2" CLEAR ABOVE BACKSLASH UNLESS NOTED OTHERWISE.
19. ALL BACKSLASHES TO BE 2' 4" HIGH U.O.C.
20. DASHED LINES ON ELEVATIONS INDICATED ADJUSTABLE SHELVING OR DRAWERS.
21. PROVIDE FINISHED BACK PANEL AT ALL KNEE SPACES BELOW ALL TYPE 1 TYPICAL.
22. PROVIDE FINISHED BACK PANEL AT ALL KNEE SPACES, TYPICAL.
23. PROVIDE LOCK AND KEY WHERE A CIRCLE NEXT TO DRAWER OR CUPBOARD IS SHOWN.
24. REFER SHEETS A001X FOR LABORATORY CASEWORK / MILLWORK DETAILS.
25. 1" TYPICAL MOUNTING HEIGHTS REF. 17A0011
26. ALL CASEWORK TO BE WOOD U.O.C.
27. ALL CASEWORK IS LABOURATORY CASEWORK UNLESS NOTED AS MILLWORK OR OFOI. SEE DIVISION 12 3553 - LABORATORY CASEWORK FOR SPECIFICATIONS.
28. ALL EQUIPMENT ITEMS HAVE A EQUIPMENT TAG - XXXXXX. SEE SHEETS A11X FOR EQUIPMENT SPECIFICATIONS.
29. PROVIDE PAPER TOWEL DISPENSER (PTD) AT EACH SINK LOCATION.

PART OF
EXHIBIT-A

CONFORMED SET 01 JUL 2016

- ISSUED FOR CONSTRUCTION (BP3)		15 MAR 2016
No.	Description	Date

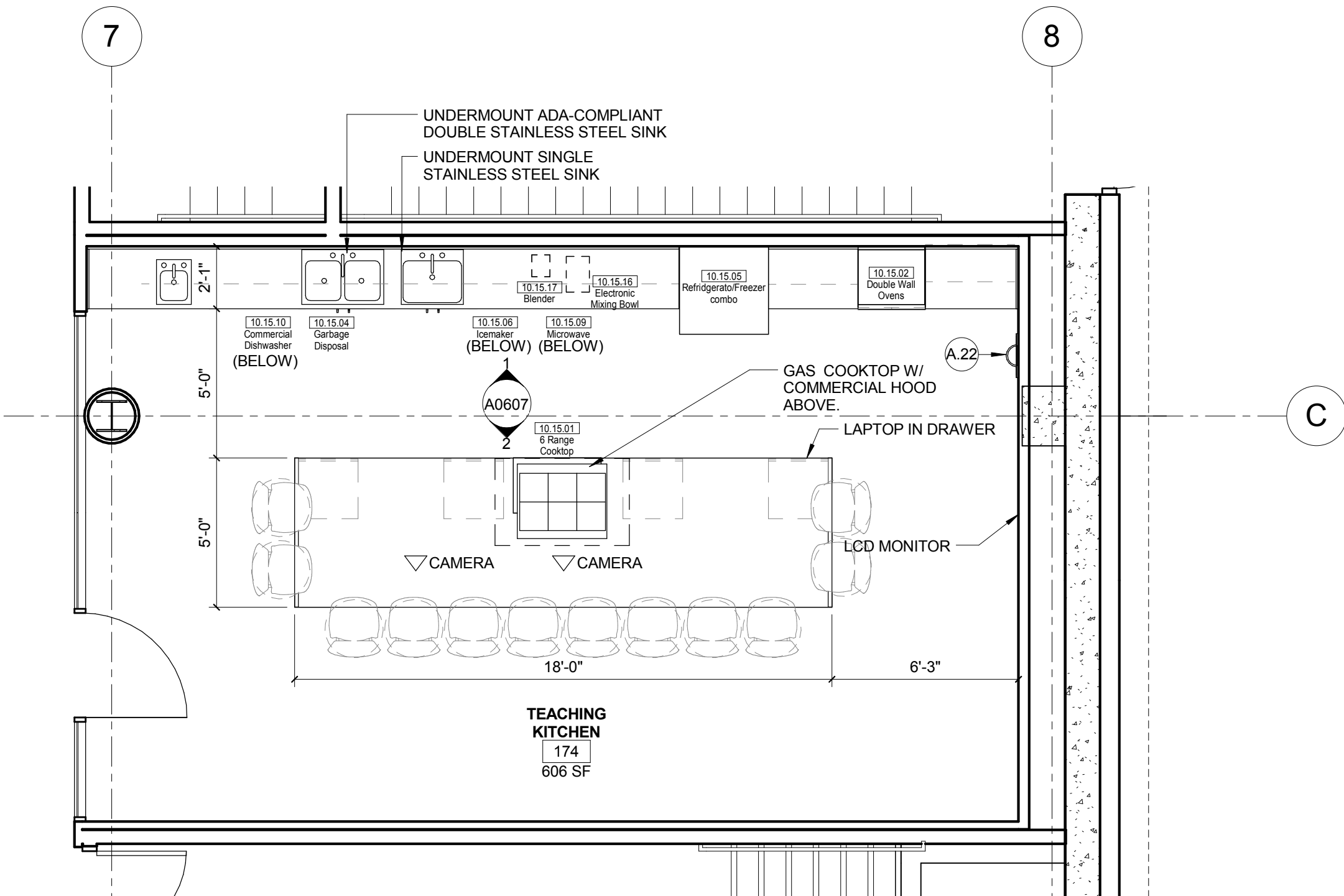
ENLARGED PLANS-LEVEL
01

Project No.: 04561.01 Checked by:

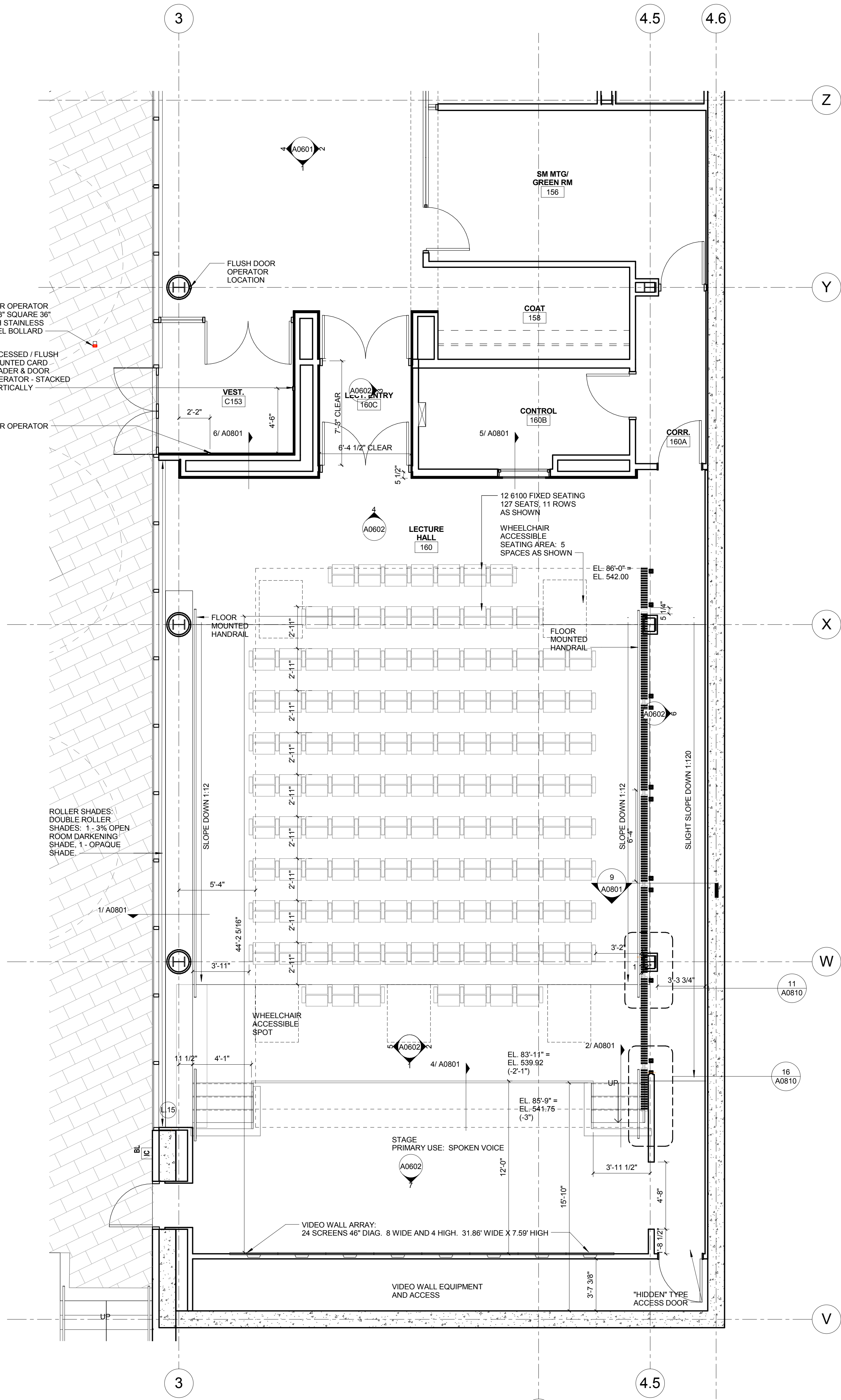
A0201

NO(ANT) ON THIS SHEET

3 LEVEL 01 - AREA B-WEST - MOCK EXAM ROOMS
1/4" = 1'-0"



2 LEVEL 01 AREA A FLOOR PLAN-NORTH - TEACHING KITCHEN
1/4" = 1'-0"



1 LEVEL 01 - AREA B - LECTURE HALL
1/4" = 1'-0"

- KEYED NOTE LEGEND - PLAN**
- A.1 002700 GRG COLUMN COVER TO 3" ABOVE CEILING - 20" DIA. TYP. SEE DETAIL 4A0811 AND 13A0842
 - A.2 081216 INTERIOR GLAZING SYSTEM: IGS-1: REFER TO TYPICAL INT. ELEVATIONS 1 AND 2 ON SHEET A0803
 - A.3 081216 INTERIOR GLAZING SYSTEM IGS-2: SEE TYPICAL ELEVATION 5 AND 6 A0803
 - A.4 081216 INTERIOR GLAZING SYSTEM: IGS-3: REFER TO INTERIOR ELEVATIONS
 - A.5 088813 FIRE RATED GLAZING- 120 MIN. FIRE RATED GLAZING 10'-0" HIGH. BASIS OF DESIGN: VETROTECH CONTRAFILAMM STRUTTURA - WITH BUTT JOINTS AND PERIMETER FRAMING.
 - A.6 088813 FIRE RATED GLAZING AND FRAME- 120 MIN. FIRE RATED GLAZING 1'-8" HIGH X 5'-0" WIDE. BASIS OF DESIGN: VETROTECH CONTRAFILAMM WITH PERIMETER FRAMING.
 - A.7 111519 LOADING DOCK LIFT - STATIONARY - 6W X 8' DEEP/W/ 14" PIT
 - A.8 ALTERNATING TREAD STAIRWAY UP TO ROOF HATCH
 - A.9 UNDERSLAB DRAINAGE SYSTEM PER OWNER'S GEOTECHNICAL CONSULTANT RECOMMENDATION TYPICAL ALL SLAB ON GRADE AREAS
 - A.11 NEW CONCRETE STEPS TO MATCH EXISTING REMOVED FOR CONSTRUCTION
 - A.12 553006 BRICK FACED CONCRETE DUMPSTER ENCLOSURE TOP OF WALL
 - A.13 LCD SIGNAGE SCREEN IN WALL RECESS (OFCI)
 - A.14 MARKERBOARD SURFACE
 - A.15 WOOD SCREEN W/ SOLID LUMBER
 - A.17 VIDEO WALL - 24 55" SCREENS
 - A.18 LCD SCREEN LOCATION (OFCI)
 - A.19 AIR PLENUM - INSULATED PLENUM CONSTRUCTION BY DIVISION 23
 - A.20 122200 CURTAIN LOCATION
 - A.21 104313 AED CABINET LOCATION
 - A.22 10 4413 FEC WITH FIRE EXTINGUISHER
 - A.23 08 4423 SULL. SASH LOCATION: PROVIDE 1/4" TEMPERED CLEAR GLAZING AT INTERIOR FACE OF CURTAIN WALL MULLIONS FOR ACOUSTICAL SEPARATION.
 - A.24 6" X 8" FORMED CONCRETE TRENCH IN FLOOR W/ METAL PLATE COVER. PROVIDE BLIND SIDE WATERPROOFING
 - A.25 BUILT IN SALT WATER FISH TANK LOCATION. SIZE APPROX. 7'-6" X 2'-4" X 2'-6" HIGH. LOW IRON GLASS VIEW WINDOW ON CORRIDOR SIDE. SLIDING DOOR ON LAB SIDE. FISH TANK EQUIPMENT BELOW TANK W/ CABINET DOOR ACCESS ON LAB SIDE. FINISHED INTERIOR FACE OF WALLS AND CEILING INSIDE CAVITY W/ WATER RESISTANT GYP BOARD AND EPOXY PAINT
 - A.26 LCD SIGNAGE SCREEN IN WALL RECESS (OFCI)
 - A.27 CONSTRUCT 2 HOUR RATED SEPARATION BETWEEN BOTTOM OF STAIR AND UTILITY PIPING CROSSING THIS AREA. USE HORIZ. GYP BD. ENCLOSURE ON SHEET A1002



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1400 S. 3rd Street, Suite 201
St. Louis, MO 63104
314.558.0600

PART OF EXHIBIT-A

CONFORMED SET 01 JUL 2016

1	ADDENDUM 3-2	15 APR 2016
1	ISSUED FOR CONSTRUCTION (BP3)	15 MAR 2016
No.	Description	Date

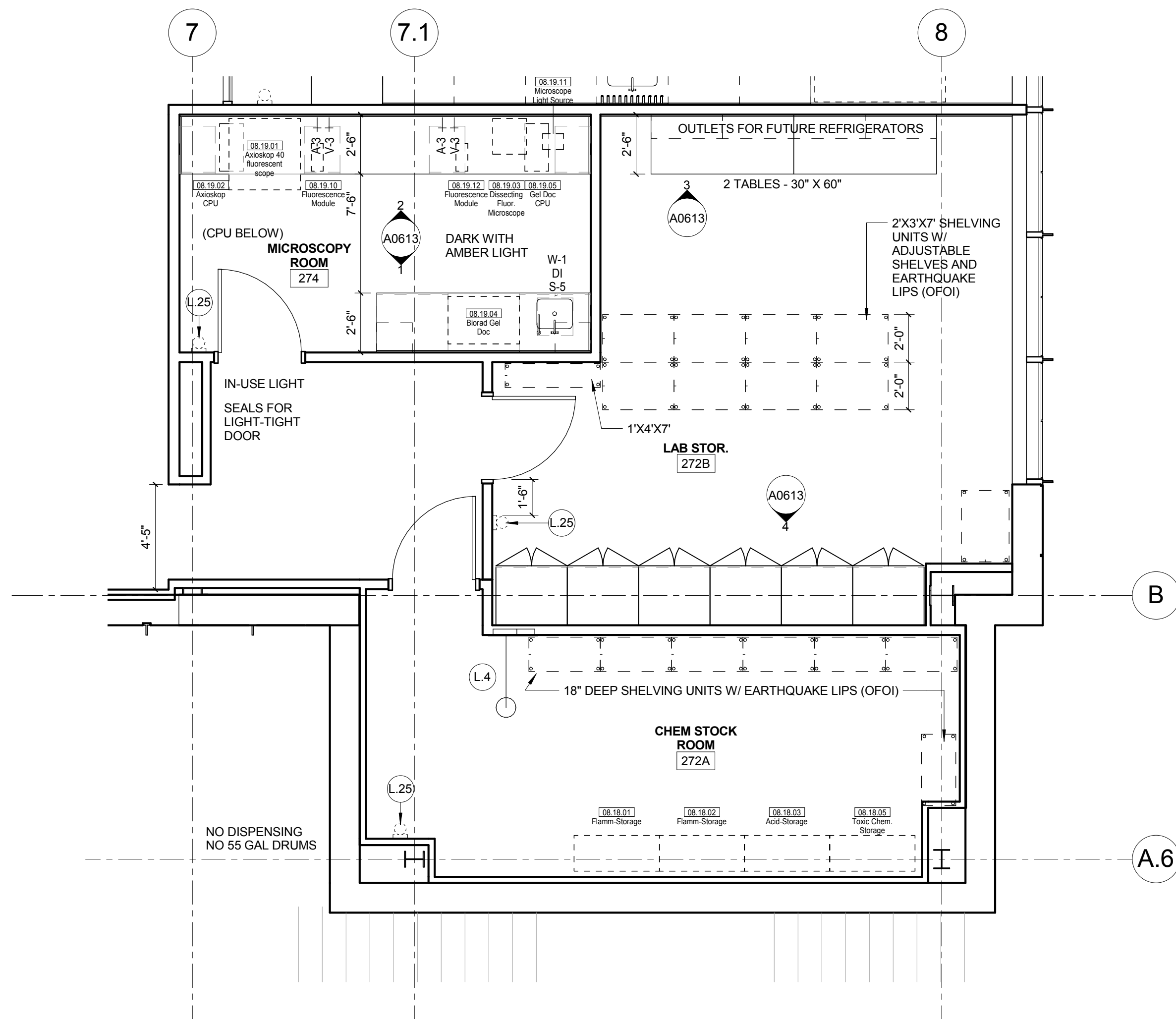
Drawing Title:

ENLARGED PLANS-LEVEL
01

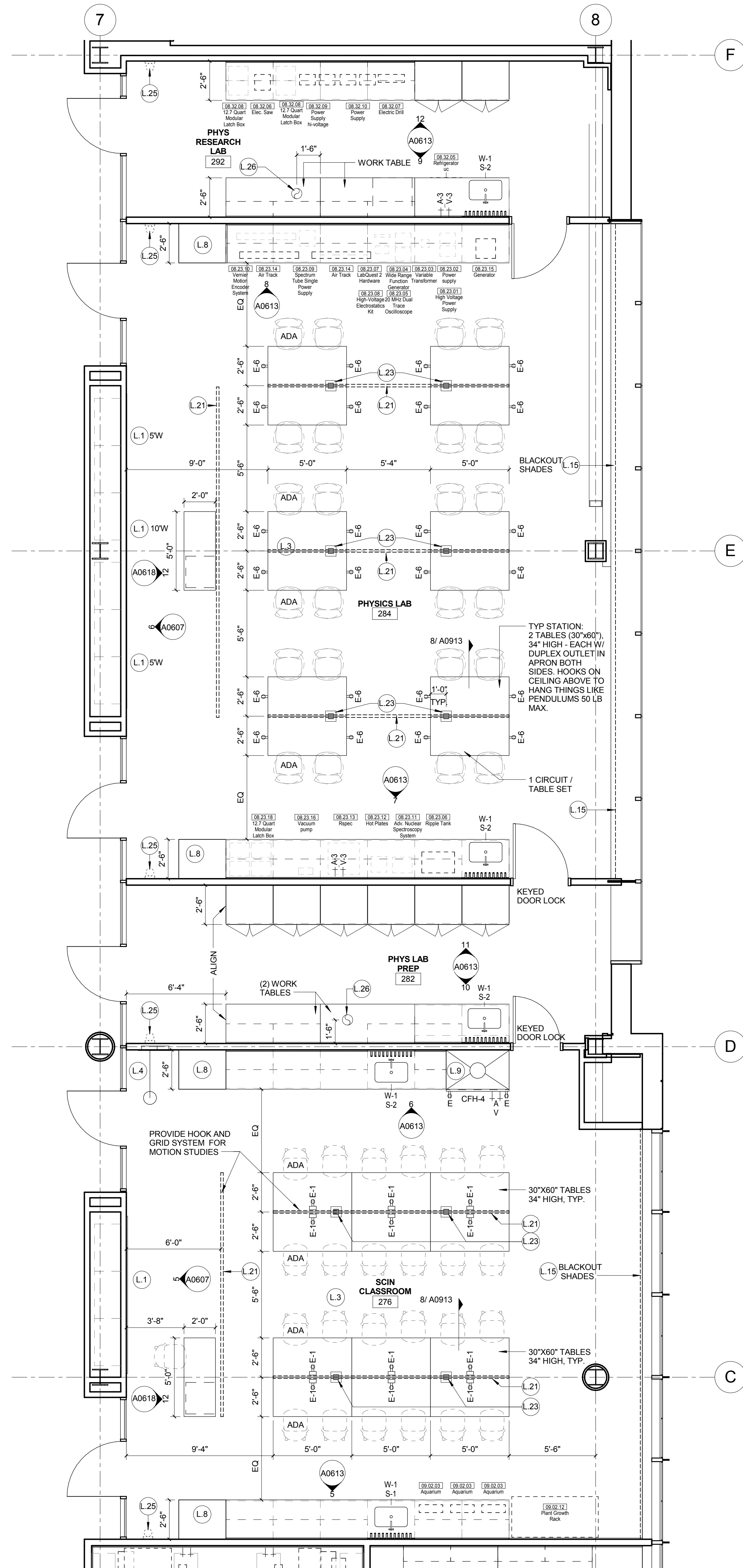
Project No.: 04561.01 Checked by:

A0202

NO (ANT) ON THIS SHEET



2 LEVEL 02 - AREA A - EAST - SOUTH END
1/4" = 1'-0"



1 LEVEL 02 - AREA A - EAST - NORTH END
1/4" = 1'-0"

LAB KEYED NOTE LEGEND

- L.1 WRITABLE AND PROJECTABLE SURFACE, DIMENSIONS AS NOTED
L.2 RECESSED, CEILING MOUNTED PROJECTION SCREEN
L.3 WALL MOUNTED PROJECTOR ABOVE
L.4 EMERGENCY SAFETY SHOWER WITH EYEWASH
L.5 115313 CHEMICAL FUME HOOD W/ STORAGE BELOW. TYPICAL FUME HOOD TO HAVE ELECTRIC AND UTILITIES AS INDICATED.
L.6 WOOD LAB CASEWORK MICROSCOPE CAB
L.7 WOOD LAB CASEWORK: TALL CABINET WITH OPEN CUBBIES FOR BOOK BAG STORAGE
L.8 115313 CHEMICAL FUME HOOD - ACCESSIBLE - WITH MOBILE STORAGE BELOW, WHERE SHOWN. TYPICAL FUME HOOD TO HAVE ELECTRIC, AND UTILITIES AS INDICATED.
L.9 CABS BELOW WHITEBOARD
L.11 CAMERA FOR SKYYE INTERVIEW
L.14 GAS CYLINDER STORAGE RACK (CFCI), CYLINDERS TO BE "OFOI".
L.15 RECESSED MOTORIZED ROOM DARKENING / BLACKOUT SHADES. USE DOUBLE SHADES AT WEST CLASSROOMS LEVEL 02 AND LECTURE HALL. REFER TO REFLECTED CEILING PLANS
L.16 LCD MONITOR
L.18 MOBILE LABORATORY CASEWORK SYSTEM. SEE DETAIL 09A0911.
L.19 MOVEABLE WOOD LABORATORY CASEWORK: TABLE WITH MODIFIED EPOXY COUNTERTOP, CABINETS SUSPENDED BELOW AS INDICATED.
L.20 FIXED WOOD LABORATORY CASEWORK: BASE CABINETS, MODIFIED EPOXY COUNTERTOP, WALL CABINETS AS SHOWN ON ELEVATION
L.21 SEE CEILING PLAN FOR CEILING MOUNTED UNISTRUT SYSTEM SUPPORTED BY STRUCTURE ABOVE
L.22 8" DEEP X 6" WIDE TRENCH WITH METAL COVER TO RECIEVE FLOOR FINISH TO MATCH ADJACENT FLOOR
L.23 FLOOR BOX FOR ELECTRICAL & DATA
L.24 09 6666 DRY ERASE FINISH (AWC-1)
L.25 PROVIDE BLOCKING FOR FIRE EXTINGUISHER, MOUNTING HEIGHT - 3'-0" TO TOP OF EXTINGUISHER, FIRE EXTINGUISHER & ITS BRACKET BY OWNER.
L.26 POINT EXHAUST (SNORKEL) FOR SOLDERING. SEE DETAIL 5/ A0913.

LAB UTILITY LEGEND

- CW WATER COLD WATER FAUCET, DECK MOUNTED GOOSENECK WITH SERRATED NOZZLE, VACUUM BREAKER
W-1 WATER GENERAL MIXING FAUCET, DECK MOUNTED WITH VACUUM BREAKER, SERRATED NOZZLE.
DI WATER FAUCET DECK MOUNTED.
PWS WATER PROCESS COLD WATER SUPPLY.
PWR WATER PROCESS COLD WATER RETURN.
EW WATER EYEWASH, DECK MOUNTED, AUTOFLOW SWING-DOWN, WATER DRENCH HOSE.
G GAS FUME HOOD CONTROL
V VAC FUME HOOD CONTROL
V-3 VAC WALL MOUNTED, SINGLE SERRATED OUTLET
V-1 VAC TURRET BASE, SINGLE SERRATED OUTLET
V-4 VAC OUTLET FOR BIOSAFETY CABINET CONNECTIONS
V-5 VAC QUICK DISCONNECT FOR OVERHEAD SERVICE CARRIER
A-1 AIR FUME HOOD CONTROL
A-1 AIR TURRET BASE, SINGLE SERRATED OUTLET
A-3 AIR WALL MOUNTED, SINGLE SERRATED OUTLET
A-4 AIR OUTLET FOR BIOSAFETY CABINET CONNECTIONS
A-5 AIR QUICK DISCONNECT FOR OVERHEAD SERVICE CARRIER
N NITROGEN FUMEHOOD CONTROL
E ELEC DUPLEX OUTLET (CFI) ON FUME HOOD
E-1 COUNTERTOP MOUNTED PEDESTAL, (1) DUPLEX ELECTRICAL OUTLET.
E-2 ELEC COUNTERTOP MOUNTED PEDESTAL, (2) DUPLEX ELECTRICAL OUTLET.
E-3 ELEC WALL MOUNTED, (1) DUPLEX ELECTRICAL OUTLET.
E-5 ELEC DUPLEX ELECTRICAL OUTLET ON OVERHEAD SERVICE CARRIER
E-6 ELEC DUPLEX ELECTRICAL OUTLET ON TABLE APRON
D DATA DATA OUTLET
D-1 DATA COUNTERTOP MOUNTED PEDESTAL, (2) DATA OUTLETS
D-5 DATA DATA OUTLET ON OVERHEAD SERVICE CARRIER
D-6 DATA DATA OUTLET ON TABLE APRON
CS CUP SINK LIPPED MODIFIED EPOXY CUP SINK.
S-1 SINK 9"X3" W OVAL (DROP-IN).
S-2 LIPPED MODIFIED EPOXY ADA SINK 25"X15"X10"D (DROP-IN).
S-3 SINK LIPPED MODIFIED EPOXY ADA SINK 25"X15"X15"D (DROP-IN).
S-4 SINK LIPPED MODIFIED EPOXY ADA SINK 25"X15"X15"D (DROP-IN).
S-5 SINK LIPPED MODIFIED EPOXY ADA SINK 18"X15"X15"D (DROP-IN).
S-6 SINK LIPPED MODIFIED EPOXY ADA SINK 36"X15"X15"D (DROP-IN).
OSC OVERHEAD SERVICE CARRIER. SEE DETAIL 10 / A0913.
PTD PAPER TOWEL DISPENSER

CHEMICAL FUME HOOD LEGEND

- CFH-4 4'-0" WIDE CHEMICAL FUME HOOD
CFH-6 6'-0" WIDE CHEMICAL FUME HOOD

LAB GENERAL NOTES

- ALL DIMENSIONS ARE TO GWB FACE PARTITION OR COLUMN CENTER LINE U.N.O.
- OWNER FURNISHED OWNER INSTALLED (OFOI) ITEMS ARE SHOWN DASHED FOR REFERENCE ONLY. COORDINATE SIZE AND INSTALLATION REQUIREMENTS WITH OWNER'S REPRESENTATIVE.
- CENTER ALL DRYING RACKS WITH DRIP STOP TROUGHS ABOUT CENTERLINE OF SINKS, U.N.O.
- ALL APRONS AT OPEN KNEE SPACE TO BE 4" U.N.O. PROVIDE APRON OF SOLID WOOD WITH EASED BOTTOM EDGE. FINISH TO MATCH VENEER SPECIES. MAINTAIN MINIMUM 27" CLEAR ABOVE FLOOR FINISH.
- CENTER ALL COUNTERTOP MOUNTED UTILITY OUTLETS ON CENTER OF CASEWORK U.N.O.
- ALL SURFACE MOUNTED RACEWAY TO HAVE OUTLETS AT 2'-0" O.C. AND SHALL BE MOUNTED DIRECTLY ABOVE BACKSPASH U.N.O.
- ALL BACKSPASHES TO BE 4" HIGH U.N.O.
- DASHED LINES ON ELEVATIONS INDICATED ADJUSTABLE SHELVING INSIDE CASEWORK.
- PROVIDE FINISHED BACK PANEL AT KNEE SPACES BELOW ALL FUMEHOODS, TYPICAL. SIMILAR TO DETAIL.
- PROVIDE FINISHED BACK PANEL AT ALL KNEE SPACES. TYPICAL. PROVIDE LOCK AND KEY WHERE A CIRCLE NEXT TO DRAWER OR DOOR HANDLE IS SHOWN OR WHERE NOTED.
- REFER SHEETS A0911 FOR LABORATORY CASEWORK / MILLWORK DETAILS.
- FOR TYPICAL MOUNTING HEIGHTS REF. 1/A0911
- ALL CASEWORK TO BE WOOD U.N.O.
- ALL CASEWORK IS LABORATORY CASEWORK UNLESS NOTED AS MILLWORK OR OFOI. SEE DIVISION "12 3553 - LABORATORY CASEWORK" FOR SPECIFICATIONS.
- ALL EQUIPMENT ITEMS HAVE A EQUIPMENT TAG - XX-XX-XX. SEE SHEETS A1104 FOR EQUIPMENT SCHEDULES.
- PROVIDE PAPER TOWEL DISPENSER (PTD) AT EACH SINK LOCATION.



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PART OF EXHIBIT-A

CONFORMED SET 01 JUL 2016

ISSUED FOR CONSTRUCTION (BP3) 15 MAR 2016
No. Description Date

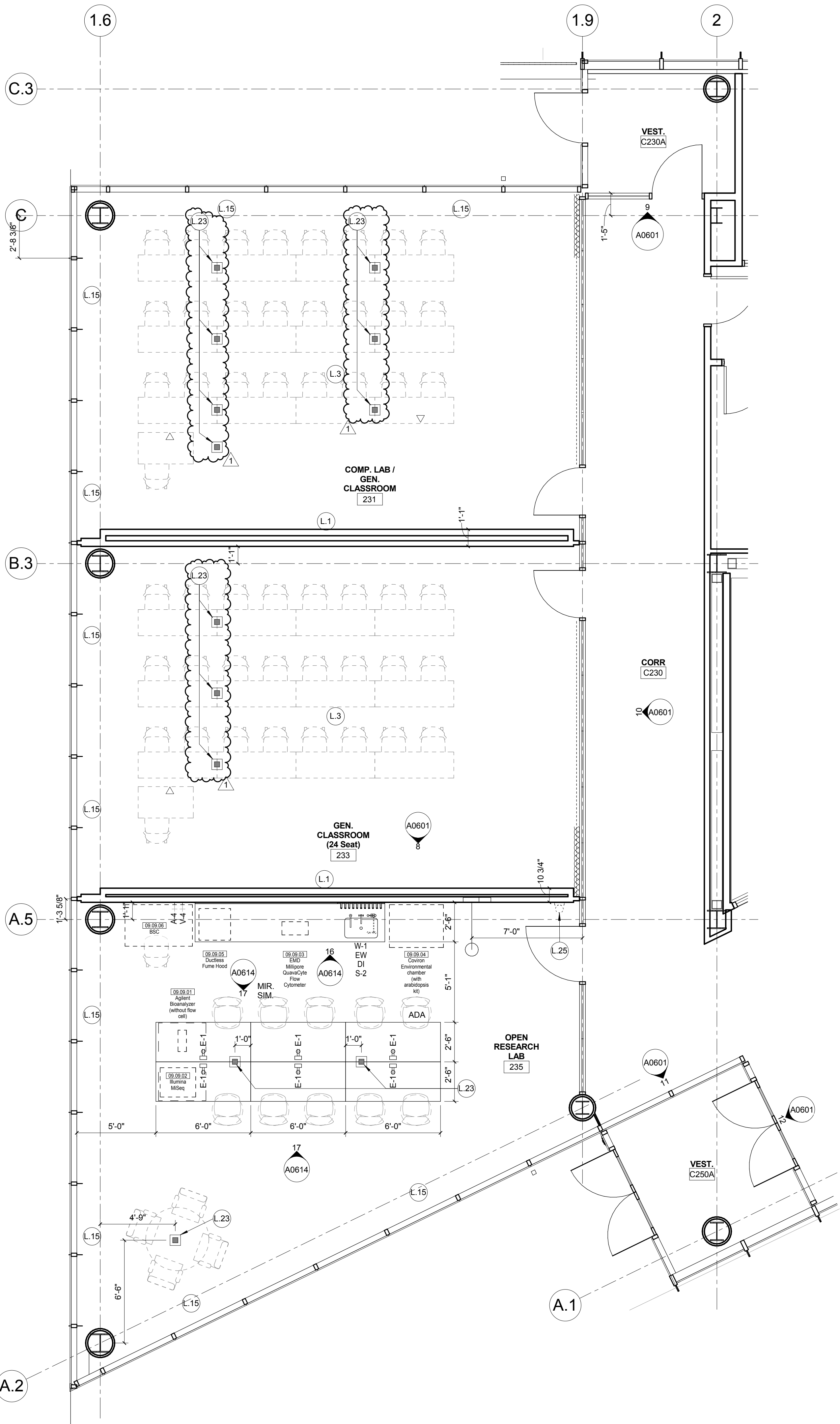
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ENLARGED PLANS-LEVEL 02

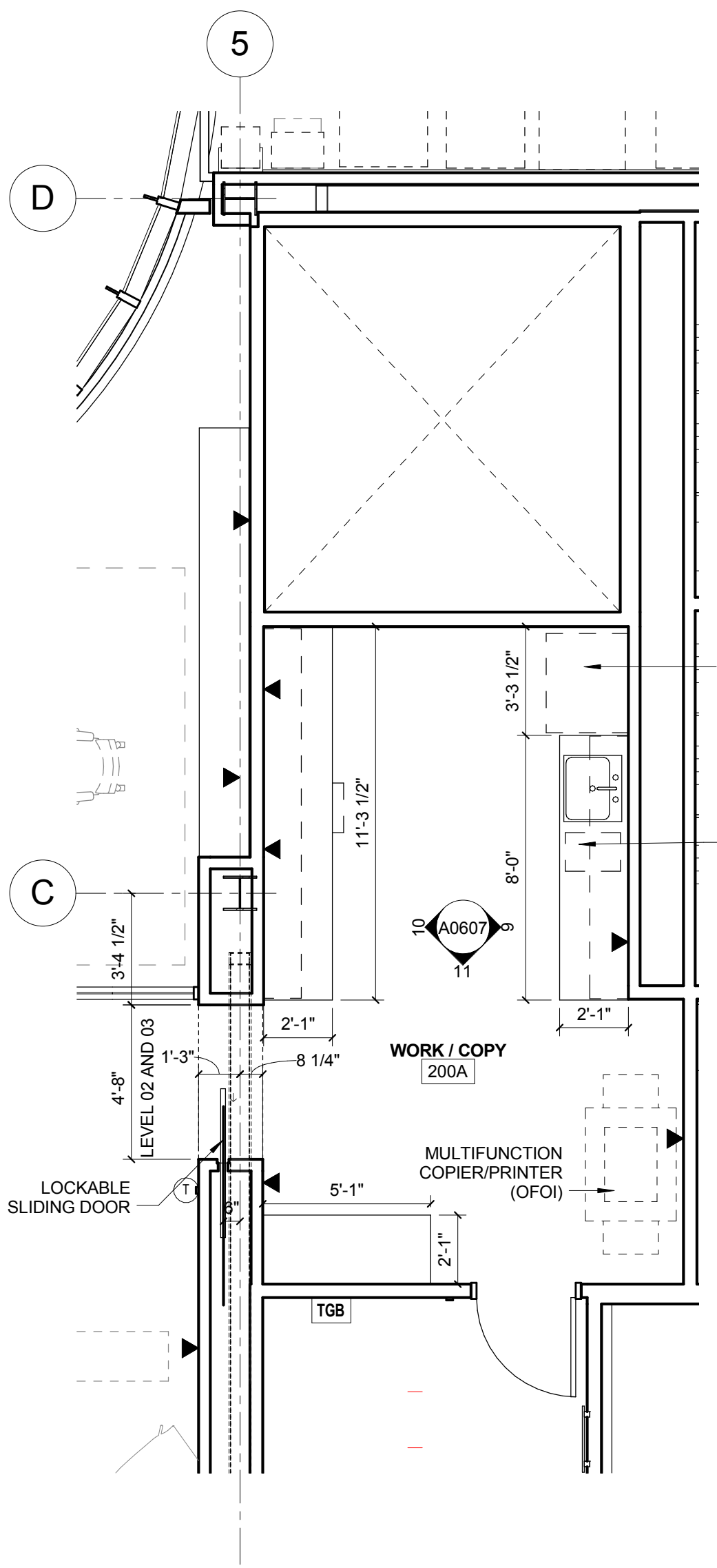
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A0203

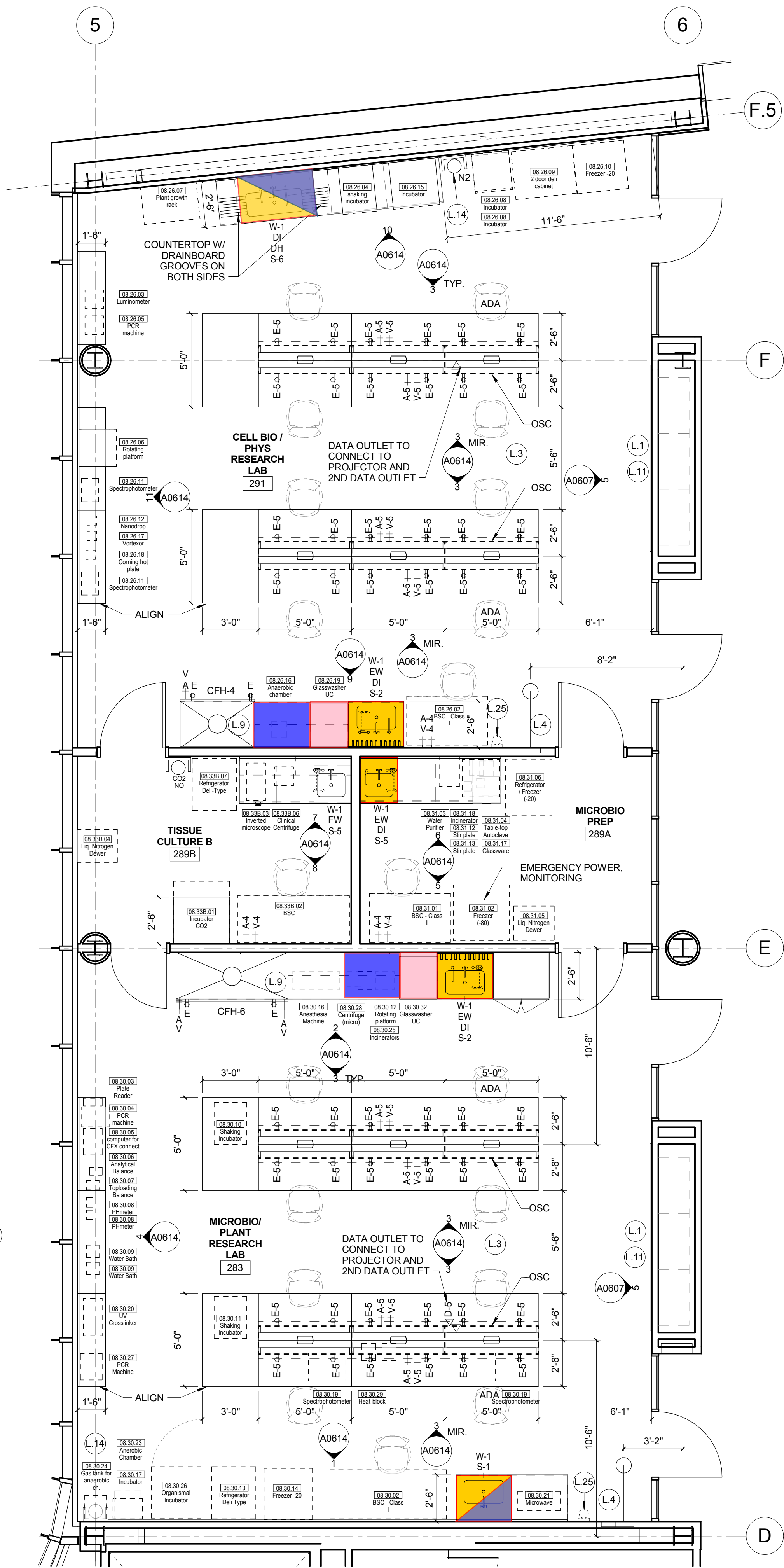
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4/15/2016 4:50:28 PM



3 LEVEL 02 - AREA B - WEST - CLASSROOMS
1/4" = 1'-0"



2 LEVEL 02 - AREA B - WORKROOM
1/4" = 1'-0"



1 LEVEL 02 - AREA A - WEST - BIO LABS
1/4" = 1'-0"

LAB KEYED NOTE LEGEND

- L.1 WRITABLE AND PROJECTABLE SURFACE. DIMENSIONS AS NOTED
- L.2 RECESSED, CEILING MOUNTED PROJECTION SCREEN
- L.3 WALL MOUNTED PROJECTOR ABOVE
- L.4 EMERGENCY SAFETY SHOWER WITH EYEWASH
- L.5 11513 CHEMICAL FUME HOOD W/ STORAGE BELOW. TYPICAL FUME HOOD TO HAVE ELECTRIC AND UTILITIES AS INDICATED.
- L.6 WOOD LAB CASEWORK MICROSCOPE CAB
- L.7 WOOD LAB CASEWORK: TALL CABINET WITH OPEN CUBBIES FOR BOOK BAG STORAGE.
- L.8 11513 CHEMICAL FUME HOOD - ACCESSIBLE - WITH MOBILE STORAGE BELOW, WHERE SHOWN. TYPICAL FUME HOOD TO HAVE ELECTRIC, AND UTILITIES AS INDICATED.
- L.9 CABS BELOW WHITEBOARD
- L.10 CAMERA FOR SKYPE INTERVIEW
- L.11 GAS CYLINDER STORAGE RACK (CFOI), CYLINDERS TO BE "OFF"
- L.12 RECESSED MOTORIZED ROOM DARKENING / BLACKOUT SHADES. USE DOUBLE SHADES AT WEST CLASSROOMS LEVEL 02 AND LECTURE HALL. REFER TO REFLECTED CEILING PLANS
- L.13 LCD MONITOR
- L.14 MOBILE LABORATORY CASEWORK SYSTEM. SEE DETAIL 09A0911.
- L.15 MOVEABLE WOOD LABORATORY CASEWORK: TABLE WITH MODIFIED EPOXY COUNTERTOP. CABINETS SUSPENDED BELOW AS INDICATED.
- L.16 FIXED WOOD LABORATORY CASEWORK: BASE CABINETS, MODIFIED EPOXY COUNTERTOP. WALL CABINETS AS SHOWN ON ELEVATION
- L.17 SEE CEILING PLAN FOR CEILING MOUNTED UNISTRUT SYSTEM SUPPORTED BY STRUCTURE ABOVE
- L.18 8" DEEP x 6" WIDE TRENCH WITH METAL COVER TO RECEIVE FLOOR FINISH TO MATCH ADJACENT FLOOR
- L.19 FLOOR BOX FOR ELECTRICAL & DATA
- L.20 09 6666 DRY ERASE FINISH (AWC-1)
- L.21 PROVIDE BLOCKING FOR FIRE EXTINGUISHER, MOUNTING HEIGHT - 3'-0" TO TOP OF EXTINGUISHER. FIRE EXTINGUISHER & ITS BRACKET BY OWNER.
- L.22 POINT EXHAUST (SNORKEL) FOR SOLDERING. SEE DETAIL 5/ A0913.

LAB UTILITY LEGEND

- CW WATER COLD WATER FAUCET, DECK MOUNTED GOOSENECK WITH SERRATED NOZZLE. VACUUM BREAKER.
- W-1 WATER GENERAL MIXING FAUCET, DECK MOUNTED WITH VACUUM BREAKER, SERRATED NOZZLE.
- DI WATER DI WATER FAUCET DECK MOUNTED.
- PWS WATER PROCESS COLD WATER SUPPLY.
- PWR WATER PROCESS COLD WATER RETURN.
- EW WATER EYEWASH, DECK MOUNTED, AUTOFLOW SWING-DOWN.
- DH WATER DRENCH HOSE.
- G GAS FUME HOOD CONTROL
- V VAC FUME HOOD CONTROL
- V-3 VAC WALL MOUNTED, SINGLE SERRATED OUTLET
- V-1 VAC TURRET BASE, SINGLE SERRATED OUTLET
- V-4 VAC OUTLET FOR BIOSAFETY CABINET CONNECTIONS
- V-5 VAC QUICK DISCONNECT FOR OVERHEAD SERVICE CARRIER
- A AIR FUME HOOD CONTROL
- A-1 AIR TURRET BASE, SINGLE SERRATED OUTLET
- A-3 AIR WALL MOUNTED, SINGLE SERRATED OUTLET
- A-4 AIR OUTLET FOR BIOSAFETY CABINET CONNECTIONS
- A-5 AIR QUICK DISCONNECT FOR OVERHEAD SERVICE CARRIER
- N NITROGEN FUMEHOOD CONTROL
- E ELEC. DUPLEX OUTLET (GF) ON FUME HOOD
- E-1 ELEC. COUNTERTOP MOUNTED PEDESTAL, (1) DUPLEX ELECTRICAL OUTLET.
- E-2 ELEC. COUNTERTOP MOUNTED PEDESTAL, (2) DUPLEX ELECTRICAL OUTLET.
- E-3 ELEC. WALL MOUNTED, (1) DUPLEX ELECTRICAL OUTLET.
- E-5 ELEC. DUPLEX ELECTRICAL OUTLET ON OVERHEAD SERVICE CARRIER.
- E-6 ELEC. DUPLEX ELECTRICAL OUTLET ON TABLE APRON
- D DATA DATA OUTLET
- D-1 DATA COUNTERTOP MOUNTED PEDESTAL, (2) DATA OUTLETS
- D-5 DATA DATA OUTLET ON OVERHEAD SERVICE CARRIER
- D-6 DATA DATA OUTLET ON TABLE APRON
- CS CUP SINK LIPPED MODIFIED EPOXY CUP SINK, 8"X3" W OVAL (DROP-IN).
- S-1 SINK LIPPED MODIFIED EPOXY ADA SINK 25"X15"Wx10"D (DROP-IN).
- S-2 SINK LIPPED MODIFIED EPOXY ADA SINK 25"X15"Wx5"D (DROP-IN).
- S-3 SINK STAINLESS STEEL SINK 25"X15"Wx10"D (DROP-IN).
- S-4 SINK STAINLESS STEEL ADA SINK 25"X15"Wx5"D (DROP-IN).
- S-5 SINK LIPPED MODIFIED EPOXY ADA SINK 18"X15"Wx5"D (DROP-IN).
- S-6 SINK LIPPED MODIFIED EPOXY SINK, 36"X15"Wx10"D (DROP-IN).
- OSC OVERHEAD SERVICE CARRIER. SEE DETAIL 10 / A0913.
- PTD PAPER TOWEL DISPENSER

CHEMICAL FUME HOOD LEGEND

- CFH-4 4'-0" WIDE CHEMICAL FUME HOOD
- CFH-6 6'-0" WIDE CHEMICAL FUME HOOD

LAB GENERAL NOTES

- ALL DIMENSIONS ARE TO GWB FACE PARTITION OR COLUMN CENTERLINE U.N.O.
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- CENTERLINE OF SINKS, U.N.O.
- ALL APRONS AT OPEN KNEE SPACE TO BE 4" U.N.O. PROVIDE APRON OF SOLID WOOD WITH EASED BOTTOM EDGE. FINISH TO MATCH VENEER SPECIES. MAINTAIN MINIMUM 27" CLEAR ABOVE FLOOR FINISH.
- CENTER ALL COUNTERTOP MOUNTED UTILITY OUTLETS ON CENTER OF CASEWORK U.N.O.
- ALL SURFACE MOUNTED RACEWAY TO HAVE OUTLETS AT 2'-0" O.C. AND SHALL BE MOUNTED DIRECTLY ABOVE BACKSPLASH U.N.O.
- ALL BACKSPLASHES TO BE 4" HIGH U.N.O.
- DASHED LINES ON ELEVATIONS INDICATED ADJUSTABLE SHELVING INSIDE CASEWORK.
- PROVIDE FINISHED BACK PANEL AT KNEE SPACES BELOW ALL FUMEHOODS, TYPICAL, SIMILAR TO DETAIL.
- PROVIDE FINISHED BACK PANEL AT ALL KNEE SPACES, TYPICAL.
- PROVIDE LOCK AND KEY WHERE A CIRCLE NEXT TO DRAWER OR DOOR HANDLE IS SHOWN OR WHERE NOTED.
- REFER SHEETS A0914 FOR LABORATORY CASEWORK / MILLWORK DETAILS.
- FOR TYPICAL MOUNTING HEIGHTS REF. 1A0911
- ALL CASEWORK TO BE WOOD U.N.O.
- ALL CASEWORK IS LABORATORY CASEWORK UNLESS NOTED AS MILLWORK OR OFOI. SEE DIVISION 12 5655 - LABORATORY CASEWORK FOR SPECIFICATIONS.
- ALL EQUIPMENT ITEMS HAVE AN EQUIPMENT TAG - XXXXXX. SEE SHEETS A114 FOR EQUIPMENT SCHEDULES.
- PROVIDE PAPER TOWEL DISPENSER (PTD) AT EACH SINK LOCATION.



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PART OF EXHIBIT-A

CONFORMED SET 01 JUL 2016

1	ADDENDUM 3-2	15 APR 2016
2	ISSUED FOR CONSTRUCTION (BPS)	15 MAR 2016
No.	Description	Date

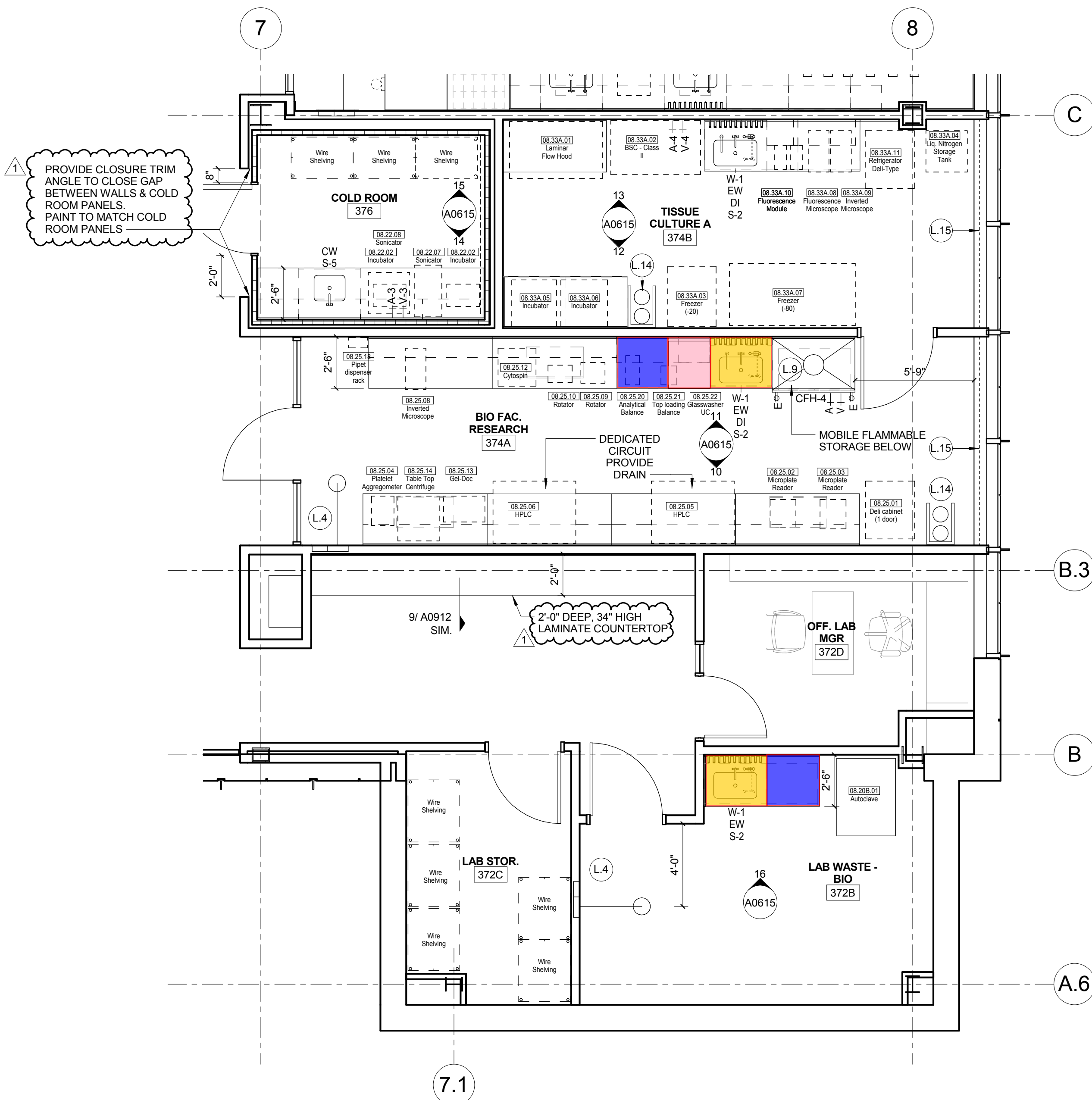
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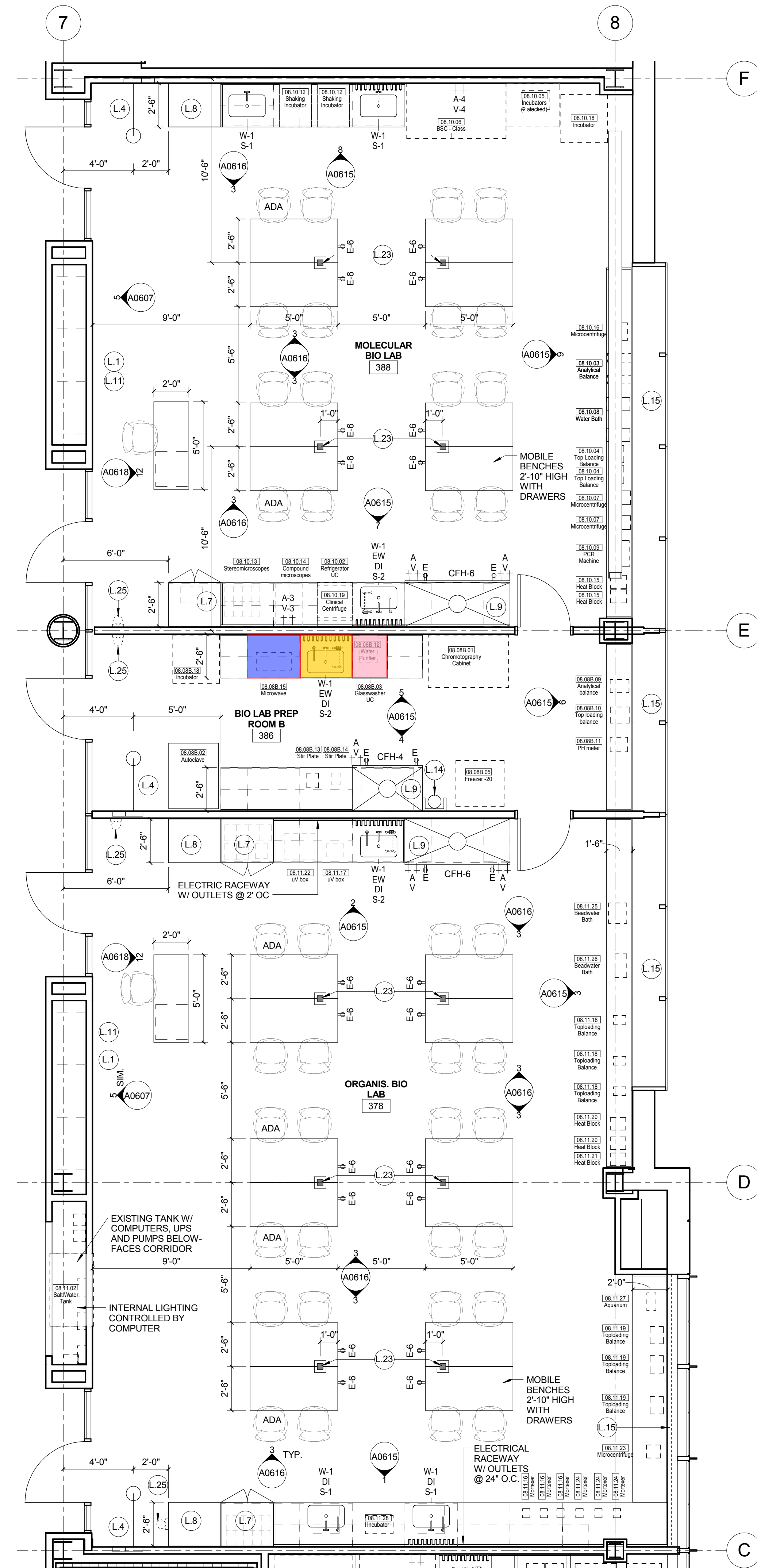
Project No.: 04561.01 Checked by:

A0204

2 LEVEL 03 - BIOLOGY - EAST SIDE-S
1/4" = 1'-0"



1 LEVEL 03 - BIOLOGY - EAST SIDE-N
1/4" = 1'-0"



LAB KEYED NOTE LEGEND

- L.1 WRITABLE AND PROJECTABLE SURFACE. DIMENSIONS AS NOTED
- L.2 RECESSED, CEILING MOUNTED PROJECTION SCREEN
- L.3 WALL MOUNTED PROJECTOR ABOVE
- L.5 EMERGENCY SAFETY SHOWER WITH EYEWASH
- L.5 115313 CHEMICAL FUME HOOD W/ STORAGE BELOW. TYPICAL FUME HOOD TO HAVE ELECTRIC AND UTILITIES AS INDICATED.
- L.7 WOOD LAB CASEWORK MICROSCOPE CAB
- L.8 WOOD LAB CASEWORK. TALL CABINET WITH OPEN CUBBIES FOR BOOK BAG STORAGE.
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- L.16 MOBILE LABORATORY CASEWORK SYSTEM. SEE DETAIL 09A0911.
- L.19 MOVEABLE WOOD LABORATORY CASEWORK. TABLE WITH MODIFIED EPOXY COUNTERTOP, WALL CABINETS AS SHOWN ON ELEVATION
- L.20 FIXED WOOD LABORATORY CASEWORK. BASE CABINETS, MODIFIED EPOXY COUNTERTOP, WALL CABINETS AS SHOWN ON ELEVATION
- L.21 SEE CEILING PLAN FOR CEILING MOUNTED UNISTRUT SYSTEM SUPPORTED BY STRUCTURE ABOVE
- L.22 8" DEEP x 8" WIDE TRENCH WITH METAL COVER TO RECEIVE FLOOR FINISH TO MATCH ADJACENT FLOOR
- L.23 FLOOR BOX FOR ELECTRICAL & DATA
- L.24 09 6866 DRY ERASE FINISH (AWC-1)
- L.25 PROVIDE BLOCKING FOR FIRE EXTINGUISHER. MOUNTING HEIGHT - 3'-0" TO TOP OF EXTINGUISHER. FIRE EXTINGUISHER & ITS BRACKET BY OWNER.
- L.26 POINT EXHAUST (SNORKEL) FOR SOLDERING. SEE DETAIL 5/ A0913.

LAB UTILITY LEGEND

- CW WATER COLD WATER FAUCET, DECK MOUNTED GOOSENECK WITH SERRATED NOZZLE. VACUUM BREAKER.
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- DI WATER DI WATER FAUCET, DECK MOUNTED.
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- DH WATER DRENCH HOSE.
- G GAS FUME HOOD CONTROL
- V VAC FUME HOOD CONTROL
- V-3 VAC WALL MOUNTED, SINGLE SERRATED OUTLET
- V-1 VAC TURRET BASE, SINGLE SERRATED OUTLET
- V-4 VAC OUTLET FOR BIOSAFETY CABINET CONNECTIONS
- V-5 VAC QUICK DISCONNECT FOR OVERHEAD SERVICE CARRIER
- A-1 AIR FUME HOOD CONTROL
- A-3 AIR TURRET BASE, SINGLE SERRATED OUTLET
- A-4 AIR WALL MOUNTED, SINGLE SERRATED OUTLET
- A-5 AIR OUTLET FOR BIOSAFETY CABINET CONNECTIONS
- N NITROGEN FUMEHOOD CONTROL
- ELEC. ELEC. OUTLET (GFI) ON FUME HOOD
- E-1 ELEC. COUNTERTOP MOUNTED PEDESTAL, (1) DUPLEX ELECTRICAL OUTLET.
- E-2 ELEC. COUNTERTOP MOUNTED PEDESTAL, (2) DUPLEX ELECTRICAL OUTLET.
- E-3 ELEC. WALL MOUNTED, (1) DUPLEX ELECTRICAL OUTLET.
- E-5 ELEC. DUPLEX ELECTRICAL OUTLET ON OVERHEAD SERVICE CARRIER
- D DATA DATA OUTLET
- D-1 DATA COUNTERTOP MOUNTED PEDESTAL, (2) DATA OUTLETS
- D-5 DATA DATA OUTLET ON OVERHEAD SERVICE CARRIER
- D-6 DATA DATA OUTLET ON TABLE APRON
- CS CLIP SINK LIPPED MODIFIED EPOXY CUP SINK, 9"x3"W OVAL (DROP-IN).
- S-1 SINK LIPPED MODIFIED EPOXY ADA SINK 25"x15"Wx10"D (DROP-IN).
- S-2 SINK LIPPED MODIFIED EPOXY ADA SINK 25"x15"Wx5"D (DROP-IN).
- S-3 SINK STAINLESS STEEL ADA SINK 25"x15"Wx10"D (DROP-IN).
- S-4 SINK STAINLESS STEEL ADA SINK 25"x15"Wx5"D (DROP-IN).
- S-5 SINK LIPPED MODIFIED EPOXY ADA SINK 18"x15"Wx5"D (DROP-IN).
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- OSC OVERHEAD SERVICE CARRIER. SEE DETAIL 10 / A0913.
- PTD PAPER TOWEL DISPENSER

CHEMICAL FUME HOOD LEGEND

- CFH-4 4'-0" WIDE CHEMICAL FUME HOOD
- CFH-6 6'-0" WIDE CHEMICAL FUME HOOD

LAB GENERAL NOTES

- ALL DIMENSIONS ARE TO GWB FACE PARTITION OR COLUMN
- CENTER LINE U.N.O.
- OWNER FURNISHED OWNER INSTALLED (OFOI) ITEMS ARE SHOWN DASHED FOR REFERENCE ONLY. COORDINATE SIZE AND INSTALLATION REQUIREMENTS WITH OWNERS REPRESENTATIVE.
- CENTER LINE OF SINKS, U.N.O.
- ALL APRONS AT OPEN KNEE SPACE TO BE 4" U.N.O. PROVIDE APRON OF SOLID WOOD WITH EASED BOTTOM EDGE. FINISH TO MATCH VENEER SPECIES. MAINTAIN MINIMUM 2" CLEAR ABOVE FLOOR FINISH.
- CENTER ALL COUNTERTOP MOUNTED UTILITY OUTLETS ON CENTER OF CASEWORK U.N.O.
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- DASHED LINES ON ELEVATIONS INDICATED ADJUSTABLE SHELVE INSIDE CASEWORK.
- PROVIDE FINISHED BACK PANEL AT KNEE SPACES BELOW ALL FUMEHOODS. TYPICAL. SIMILAR TO DETAIL.
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- PROVIDE LOCK AND KEY WHERE A CIRCLE NEXT TO DRAWER OR DOOR HANDLE IS SHOWN OR WHERE NOTED
- RESEE SHEETS A0914 FOR LABORATORY CASEWORK / MILLWORK DETAILS.
- FOR TYPICAL MOUNTING HEIGHTS REF. 1/A0911
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- ALL CASEWORK IS LABORATORY CASEWORK UNLESS NOTED AS MILLWORK OR OFOI. SEE DIVISION 12 3553 - LABORATORY CASEWORK FOR SPECIFICATIONS.
- ALL EQUIPMENT ITEMS HAVE A EQUIPMENT TAG - XX-XX-XX. SEE SHEETS A114x FOR EQUIPMENT SCHEDULES.
- PROVIDE PAPER TOWEL DISPENSER (PTD) AT EACH SINK LOCATION.



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PART OF
EXHIBIT-A

CONFORMED SET 01 JUL 2016

1 ADDENDUM 3-2 15 APR 2016
- ISSUED FOR CONSTRUCTION (BP3) 15 MAR 2016
No. Description Date

Drawing Title:

ENLARGED PLANS-LEVEL
03

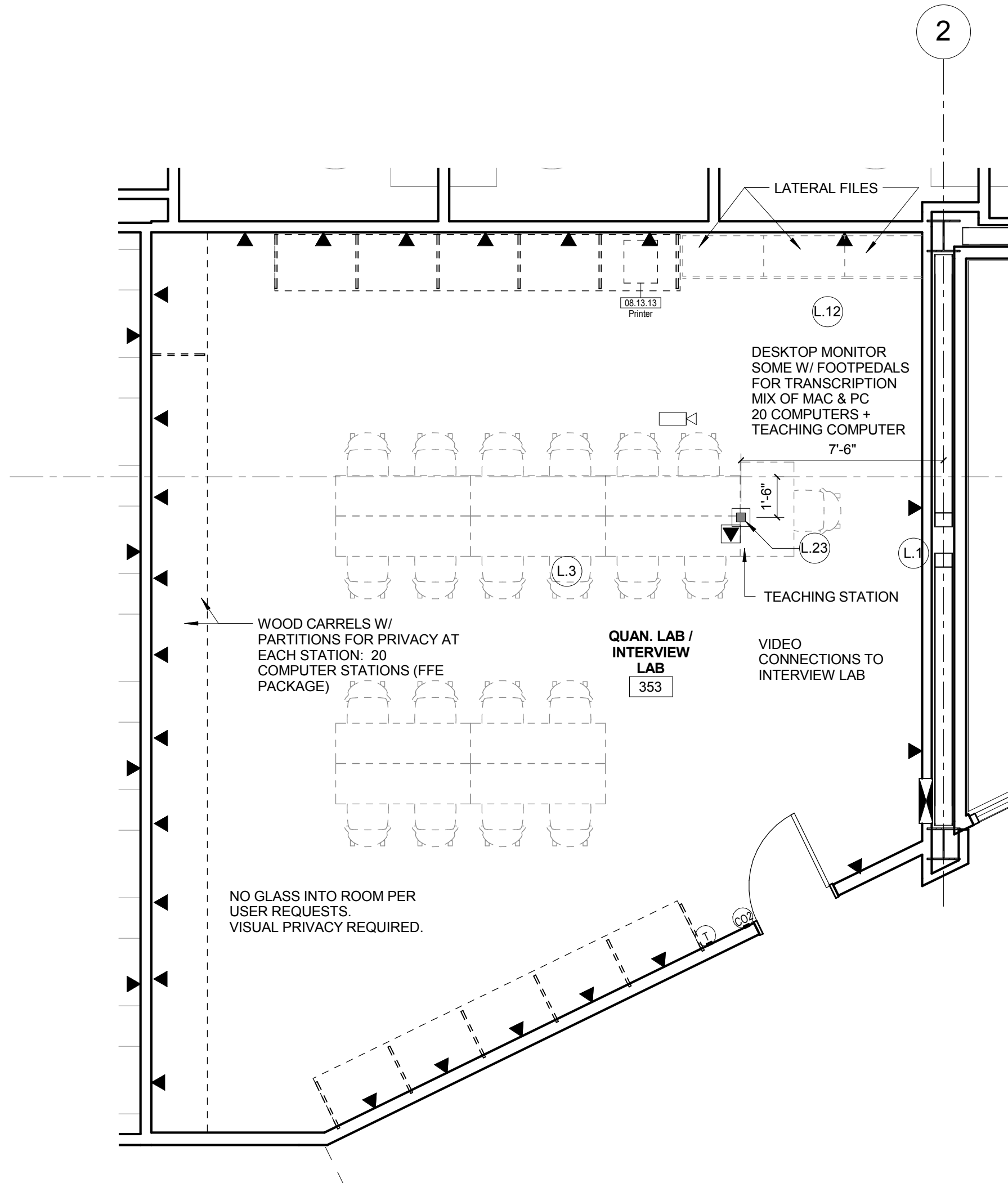
Project No.: 04561.01 Checked by:

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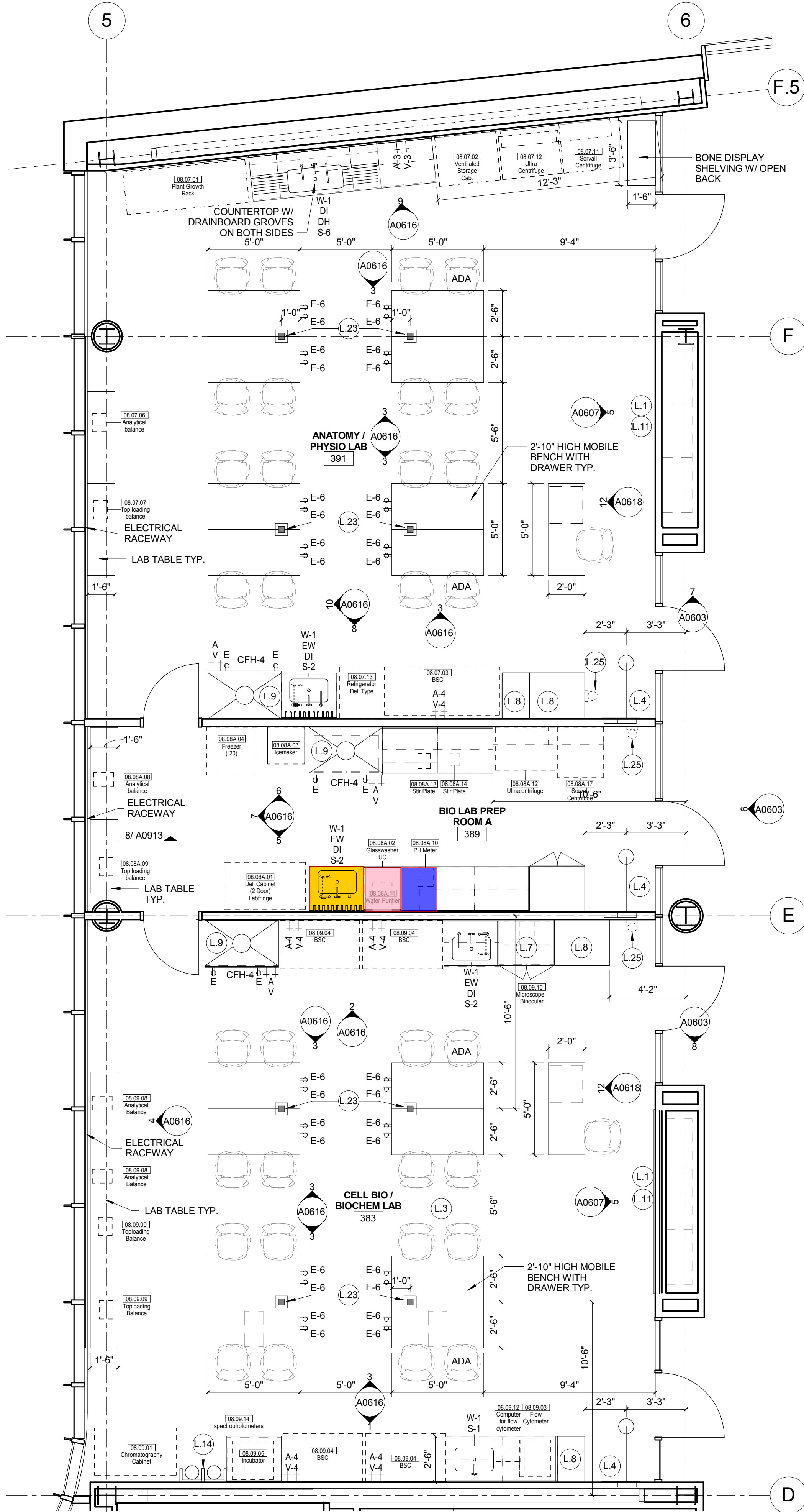
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2 A-FL03-96 - AREA B - Quantitative Lab
1/4" = 1'-0"



1 LEVEL 03 - BIOLOGY - WEST
1/4" = 1'-0"



LAB KEYED NOTE LEGEND

- L.1 WRITABLE AND PROJECTABLE SURFACE. DIMENSIONS AS NOTED
L.2 RECESSED, CEILING MOUNTED PROJECTION SCREEN
L.3 WALL MOUNTED PROJECTOR ABOVE
L.4 EMERGENCY SAFETY SHOWER WITH EYEWASH
L.5 115313 CHEMICAL FUME HOOD W/ STORAGE BELOW. TYPICAL FUME HOOD TO HAVE ELECTRIC AND UTILITIES AS INDICATED.
L.6 WOOD LAB CASEWORK MICROSCOPE CAB
L.7 WOOD LAB CASEWORK: TALL CABINET WITH OPEN CUBBIES FOR BOOK BAG STORAGE.
L.8 115313 CHEMICAL FUME HOOD - ACCESSIBLE - WITH MOBILE STORAGE BELOW, WHERE SHOWN. TYPICAL FUME HOOD TO HAVE ELECTRIC, AND UTILITIES AS INDICATED.
L.9 CABINETS BELOW WHITEBOARD
L.10 CAMERA FOR SKYPE INTERVIEW
L.11 GAS CYLINDER STORAGE RACK (CFOI). CYLINDERS TO BE "OF" OI.
L.12 RECESSED MOTORIZED ROOM DARKENING / BLACKOUT SHADES. USE DOUBLE SHADES AT WEST CLASSROOMS LEVEL 02 AND LECTURE HALL. REFER TO REFLECTED CEILING PLANS
L.13 MOBILE LABORATORY CASEWORK SYSTEM. SEE DETAIL 09/A0911.
L.14 MOVEABLE WOOD LABORATORY CASEWORK: TABLE WITH MODIFIED EPOXY COUNTERTOP. CABINETS SUSPENDED BELOW AS INDICATED.
L.15 FIXED WOOD LABORATORY CASEWORK: BASE CABINETS, MODIFIED EPOXY COUNTERTOP. WALL CABINETS AS SHOWN ON ELEVATION
L.16 SEE CEILING PLAN FOR CEILING MOUNTED UNISTRUT SYSTEM SUPPORTED BY STRUCTURE ABOVE
L.17 8" DEEP x 8" WIDE TRENCH WITH METAL COVER TO RECEIVE FLOOR FINISH TO MATCH ADJACENT FLOOR
L.18 FLOOR BOX FOR ELECTRICAL & DATA
L.19 09 6666 DRY ERASE FINISH (AWC-1)
L.20 PROVIDE BLOCKING FOR FIRE EXTINGUISHER, MOUNTING HEIGHT - 3'-0" TO TOP OF EXTINGUISHER. FIRE EXTINGUISHER & ITS BRACKET BY OWNER
L.21 POINT EXHAUST (SNORKEL) FOR SOLDERING. SEE DETAIL 5/ A0913.

LAB UTILITY LEGEND

- CW WATER COLD WATER FAUCET, DECK MOUNTED GOOSENECK WITH SERRATED NOZZLE, VACUUM BREAKER
W-1 WATER GENERAL MIXING FAUCET, DECK MOUNTED WITH VACUUM BREAKER, SERRATED NOZZLE.
DI WATER DI WATER FAUCET, DECK MOUNTED
PWS WATER PROCESS COLD WATER SUPPLY
PWR WATER PROCESS COLD WATER RETURN
EW WATER EYEWASH, DECK MOUNTED, AUTOFLOW SWING-DOWN. WATER DRENCH HOSE
G GAS FUME HOOD CONTROL
V VAC FUME HOOD CONTROL
V-3 VAC WALL MOUNTED, SINGLE SERRATED OUTLET
V-1 VAC TURRET BASE, SINGLE SERRATED OUTLET
V-4 VAC OUTLET FOR BIOSAFETY CABINET CONNECTIONS
V-5 VAC QUICK DISCONNECT FOR OVERHEAD SERVICE CARRIER
A AIR FUME HOOD CONTROL
A-1 AIR TURRET BASE, SINGLE SERRATED OUTLET
A-3 AIR WALL MOUNTED, SINGLE SERRATED OUTLET
A-4 AIR OUTLET FOR BIOSAFETY CABINET CONNECTIONS
A-5 AIR QUICK DISCONNECT FOR OVERHEAD SERVICE CARRIER
N NITROGEN FUMEHOOD CONTROL
E ELEC. DUPLEX OUTLET (GFI) ON FUME HOOD
E-1 COUNTERTOP MOUNTED PEDESTAL, (1) DUPLEX ELECTRICAL OUTLET
E-2 ELEC. COUNTERTOP MOUNTED PEDESTAL, (2) DUPLEX ELECTRICAL OUTLET
E-3 ELEC. WALL MOUNTED, (1) DUPLEX ELECTRICAL OUTLET
E-5 ELEC. DUPLEX ELECTRICAL OUTLET ON OVERHEAD SERVICE CARRIER
E-6 ELEC. DUPLEX ELECTRICAL OUTLET ON TABLE APRON
D DATA DATA OUTLET
D-1 DATA COUNTERTOP MOUNTED PEDESTAL, (2) DATA OUTLETS
D-5 DATA DATA OUTLET ON OVERHEAD SERVICE CARRIER
D-6 DATA DATA OUTLET ON TABLE APRON
CS CLIP SINK LIPPED MODIFIED EPOXY CLIP SINK, 9"Lx3"W OVAL (DROP-IN)
S-1 SINK LIPPED MODIFIED EPOXY SINK, 25"Lx15"Wx10"D (DROP-IN)
S-2 SINK LIPPED MODIFIED EPOXY ADA SINK 25"Lx15"Wx5"D (DROP-IN)
S-3 SINK STAINLESS STEEL SINK 25"Lx15"Wx10"D (DROP-IN)
S-4 SINK STAINLESS STEEL ADA SINK 25"Lx15"Wx5"D (DROP-IN)
S-5 SINK LIPPED MODIFIED EPOXY ADA SINK 18"Lx15"Wx5"D (DROP-IN)
S-6 SINK LIPPED MODIFIED EPOXY SINK, 36"Lx15"Wx10"D (DROP-IN)
OSC OVERHEAD SERVICE CARRIER. SEE DETAIL 10 / A0913.
PTD PAPER TOWEL DISPENSER

CHEMICAL FUME HOOD LEGEND

- CFH-4 4'-0" WIDE CHEMICAL FUME HOOD
CFH-6 6'-0" WIDE CHEMICAL FUME HOOD

LAB GENERAL NOTES

- ALL DIMENSIONS ARE TO GWB FACE PARTITION OR COLUMN CENTER LINE U.N.O.
- OWNER FURNISHED OWNER INSTALLED (OF/OI) ITEMS ARE SHOWN DASHED FOR REFERENCE ONLY. COORDINATE SIZE AND INSTALLATION REQUIREMENTS WITH OWNER'S REPRESENTATIVE.
- CENTER ALL DRYING RACKS WITH DRIP STOP TROUGHS ABOUT CENTERLINE OF SINKS, U.N.O.
- ALL APRONS AT OPEN KNEE SPACE TO BE 4" U.N.O. PROVIDE APRON OF SOLID WOOD WITH EASED BOTTOM EDGE. FINISH TO MATCH VENEER SPECIES. MAINTAIN MINIMUM 2" CLEAR ABOVE FLOOR FINISH.
- CENTER ALL COUNTERTOP MOUNTED UTILITY OUTLETS ON CENTER OF CASEWORK U.N.O.
- ALL SURFACE MOUNTED RACEWAY TO HAVE OUTLETS AT 2'-0" O.C. AND SHALL BE MOUNTED DIRECTLY ABOVE BACKSPLASH U.N.O.
- ALL BACKSPLASHES TO BE 4" HIGH U.N.O.
- DASHED LINES ON ELEVATIONS INDICATED ADJUSTABLE SHELVING INSIDE CASEWORK.
- PROVIDE FINISHED BACK PANEL AT KNEE SPACES BELOW ALL FUMEHOODS, TYPICAL, SIMILAR TO DETAIL.
- PROVIDE FINISHED BACK PANEL AT ALL KNEE SPACES, TYPICAL.
- PROVIDE LOCK AND KEY WHERE A CIRCLE NEXT TO DRAWER OR DOOR HANDLE IS SHOWN OR WHERE NOTED.
- REFER SHEETS A0914 FOR LABORATORY CASEWORK / MILLWORK DETAILS.
- FOR TYPICAL MOUNTING HEIGHTS REF. 1A0911
- ALL CASEWORK TO BE WOOD U.N.O.
- ALL CASEWORK IS LABORATORY CASEWORK UNLESS NOTED AS MILLWORK OR OF/OI. SEE DIVISION 12 3555 - LABORATORY CASEWORK FOR SPECIFICATIONS.
- ALL EQUIPMENT ITEMS HAVE A EQUIPMENT TAG - XX-XXXX. SEE SHEETS A1144 FOR EQUIPMENT SCHEDULES.
- PROVIDE PAPER TOWEL DISPENSER (PTD) AT EACH SINK LOCATION.



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01 JUL 2016

ISSUED FOR CONSTRUCTION (BP3) 15 MAR 2016
No. Description Date

Drawing Title:

**ENLARGED PLANS-LEVEL
03**

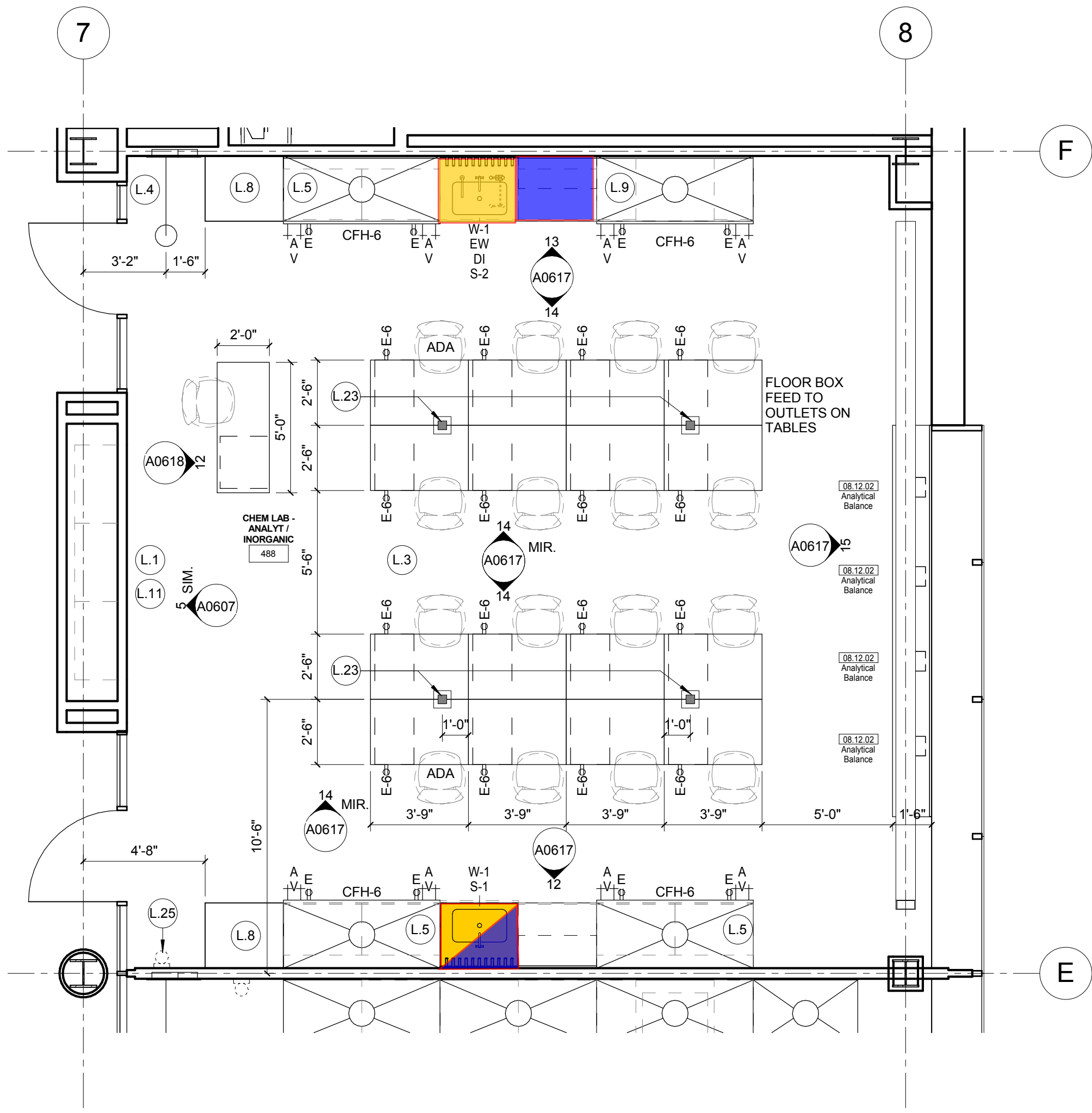
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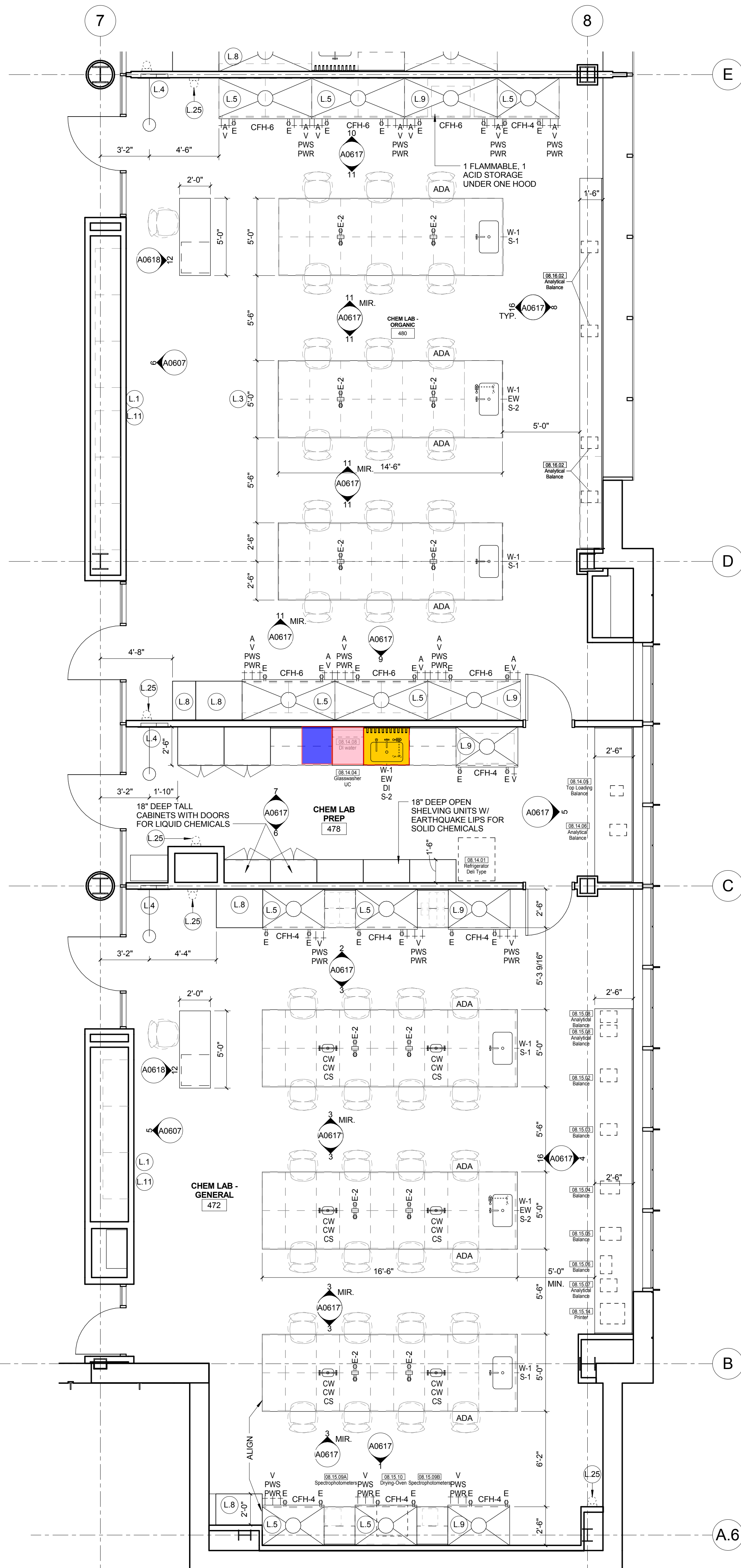
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1 LEVEL 04 - CHEMISTRY EAST - N
1/4" = 1'-0"



2 LEVEL 04 - CHEMISTRY EAST - S
1/4" = 1'-0"



LAB KEYED NOTE LEGEND

- L.1 WRITABLE AND PROJECTABLE SURFACE, DIMENSIONS AS NOTED
- L.2 RECESSED, CEILING MOUNTED PROJECTION SCREEN
- L.3 WALL MOUNTED PROJECTOR ABOVE
- L.4 EMERGENCY SAFETY SHOWER WITH EYEWASH
- L.5 115313 CHEMICAL FUME HOOD W/ STORAGE BELOW. TYPICAL FUME HOOD TO HAVE ELECTRIC AND UTILITIES AS INDICATED.
- L.7 WOOD LAB CASEWORK MICROSCOPE CAB
- L.8 WOOD LAB CASEWORK TALL CABINET WITH OPEN CUBBIES FOR BOOK BAG STORAGE.
- L.9 115313 CHEMICAL FUME HOOD - ACCESSIBLE - WITH MOBILE STORAGE BELOW, WHERE SHOWN. TYPICAL FUME HOOD TO HAVE ELECTRIC, AND UTILITIES AS INDICATED.
- L.11 CABS BELOW WHITEBOARD
- L.12 CAMERA FOR SKYPE INTERVIEW
- L.14 GAS CYLINDER STORAGE RACK (CFOI), CYLINDERS TO BE "OFF"
- L.15 RECESSED MOTORIZED ROOM DARKENING / GAS CYLINDER STORAGE RACK (CFOI), CYLINDERS TO BE "OFF"
- L.16 RECESSED MOTORIZED ROOM DARKENING / GAS CYLINDER STORAGE RACK (CFOI), CYLINDERS TO BE "OFF"
- L.18 LCD MONITOR
- L.19 MOBILE LABORATORY CASEWORK SYSTEM. SEE DETAIL 09/A0911.
- L.20 MOVEABLE WOOD LABORATORY CASEWORK: TABLE WITH MODIFIED EPOXY COUNTERTOP, CABINETS SUSPENDED BELOW AS INDICATED.
- L.21 FIXED WOOD LABORATORY CASEWORK: BASE CABINETS, MODIFIED EPOXY COUNTERTOP, WALL CABINETS AS SHOWN ON ELEVATION
- L.22 SEE CEILING PLAN FOR CEILING MOUNTED UNISTRUT SYSTEM SUPPORTED BY STRUCTURE ABOVE
- L.23 8" DEEP x 6" WIDE TRENCH WITH METAL COVER TO RECEIVE FLOOR FINISH TO MATCH ADJACENT FLOOR
- L.24 FLOOR BOX FOR ELECTRICAL & DATA
- L.25 08/6666 DRY ERASE FINISH (AWC-1)
- L.26 PROVIDE BLOCKING FOR FIRE EXTINGUISHER, MOUNTING HEIGHT - 3'-0" TO TOP OF EXTINGUISHER. FIRE EXTINGUISHER & ITS BRACKET BY OWNER.
- L.28 POINT EXHAUST (SNORKEL) FOR SOLDERING. SEE DETAIL 5/ A0913.

LAB UTILITY LEGEND

- CW WATER COLD WATER FAUCET, DECK MOUNTED GOOSENECK WITH SERRATED NOZZLE, VACUUM BREAKER
- W-1 WATER GENERAL MIXING FAUCET, DECK MOUNTED WITH VACUUM BREAKER, SERRATED NOZZLE.
- DI WATER FAUCET DECK MOUNTED
- PWS WATER PROCESS COLD WATER SUPPLY
- PWR WATER PROCESS COLD WATER RETURN
- EW WATER EYEWASH, DECK MOUNTED, AUTOFLOW SWING-DOWN, DH WATER DRENCH HOSE
- G GAS FUME HOOD CONTROL
- V VAC FUME HOOD CONTROL
- V-3 VAC WALL MOUNTED, SINGLE SERRATED OUTLET
- V-1 VAC TURRET BASE, SINGLE SERRATED OUTLET
- V-4 VAC OUTLET FOR BIOSAFETY CABINET CONNECTIONS
- V-5 VAC QUICK DISCONNECT FOR OVERHEAD SERVICE CARRIER
- A-1 AIR FUME HOOD CONTROL
- A-3 AIR TURRET BASE, SINGLE SERRATED OUTLET
- A-4 AIR WALL MOUNTED, SINGLE SERRATED OUTLET
- A-5 AIR OUTLET FOR BIOSAFETY CABINET CONNECTIONS
- N NITROGEN FUMEHOOD CONTROL
- E ELEC DUPLEX OUTLET (CFOI) ON FUME HOOD
- E-1 ELEC COUNTERTOP MOUNTED PEDESTAL, (1) DUPLEX ELECTRICAL OUTLET
- E-2 ELEC COUNTERTOP MOUNTED PEDESTAL, (2) DUPLEX ELECTRICAL OUTLET
- E-3 ELEC WALL MOUNTED, (1) DUPLEX ELECTRICAL OUTLET
- E-5 ELEC DUPLEX ELECTRICAL OUTLET ON OVERHEAD SERVICE CARRIER
- E-6 ELEC DUPLEX ELECTRICAL OUTLET ON TABLE APRON
- D DATA DATA OUTLET
- D-1 DATA COUNTERTOP MOUNTED PEDESTAL, (2) DATA OUTLETS
- D-5 DATA DATA OUTLET ON OVERHEAD SERVICE CARRIER
- D-6 DATA DATA OUTLET ON TABLE APRON
- CS CUP SINK LIPPED MODIFIED EPOXY CUP SINK, 9"X3" W OVAL (DROP-IN)
- S-1 SINK LIPPED MODIFIED EPOXY ADA SINK 25"X15"X10"D (DROP-IN)
- S-2 SINK LIPPED MODIFIED EPOXY ADA SINK 25"X15"X10"D (DROP-IN)
- S-3 SINK STAINLESS STEEL ADA SINK 25"X15"X10"D (DROP-IN)
- S-4 SINK STAINLESS STEEL ADA SINK 25"X15"X10"D (DROP-IN)
- S-5 SINK LIPPED MODIFIED EPOXY ADA SINK 18"X15"X10"D (DROP-IN)
- S-6 SINK LIPPED MODIFIED EPOXY ADA SINK 36"X15"X10"D (DROP-IN)
- OSC OVERHEAD SERVICE CARRIER. SEE DETAIL 10/ A0913.
- PTD PAPER TOWEL DISPENSER

CHEMICAL FUME HOOD LEGEND

- CFH-4 4'-0" WIDE CHEMICAL FUME HOOD
- CFH-6 6'-0" WIDE CHEMICAL FUME HOOD

LAB GENERAL NOTES

- ALL DIMENSIONS ARE TO GWB FACE PARTITION OR COLUMN CENTER LINE U.N.O.
- OWNER FURNISHED OWNER INSTALLED (OF/OI) ITEMS ARE SHOWN DASHED FOR REFERENCE ONLY. COORDINATE SIZE AND INSTALLATION REQUIREMENTS WITH OWNER'S REPRESENTATIVE.
- CENTER ALL DRYING RACKS WITH DRIP STOP TROUGHS ABOUT CENTERLINE OF SINKS, U.N.O.
- ALL APRONS AT OPEN KNEE SPACE TO BE 4" U.N.O. PROVIDE APRON OF SOLID WOOD WITH EASED BOTTOM EDGE FINISH TO MATCH VENEER SPECIES. MAINTAIN MINIMUM 2" CLEAR ABOVE FLOOR FINISH.
- CENTER ALL COUNTERTOP MOUNTED UTILITY OUTLETS ON CENTER OF CASEWORK U.N.O.
- ALL SURFACE MOUNTED RACEWAY TO HAVE OUTLETS AT 2'-0" O.C. AND SHALL BE MOUNTED DIRECTLY ABOVE BACKSPLASH U.N.O.
- ALL BACKSPLASHES TO BE 4" HIGH U.N.O.
- DASHED LINES ON ELEVATIONS INDICATED ADJUSTABLE SHELVING INSIDE CASEWORK.
- PROVIDE FINISHED BACK PANEL AT KNEE SPACES BELOW ALL FUMEHOODS, TYPICAL. SIMILAR TO DETAIL.
- PROVIDE FINISHED BACK PANEL AT ALL KNEE SPACES, TYPICAL.
- PROVIDE LOCK AND KEY WHERE A CIRCLE NEXT TO DRAWER OR DOOR HANDLE IS SHOWN OR WHERE NOTED.
- REFER SHEETS A0911 FOR LABORATORY CASEWORK / MILLWORK DETAILS.
- FOR TYPICAL MOUNTING HEIGHTS REF. 1/A0911
- ALL CASEWORK TO BE WOOD U.N.O.
- ALL CASEWORK IS LABORATORY CASEWORK UNLESS NOTED AS MILLWORK OR OF/OI. SEE DIVISION 12 3553 - LABORATORY CASEWORK FOR SPECIFICATIONS.
- ALL EQUIPMENT ITEMS HAVE A EQUIPMENT TAG - XX.XX.XX. SEE SHEETS A1104 FOR EQUIPMENT SCHEDULES.
- PROVIDE PAPER TOWEL DISPENSER (PTD) AT EACH SINK LOCATION.



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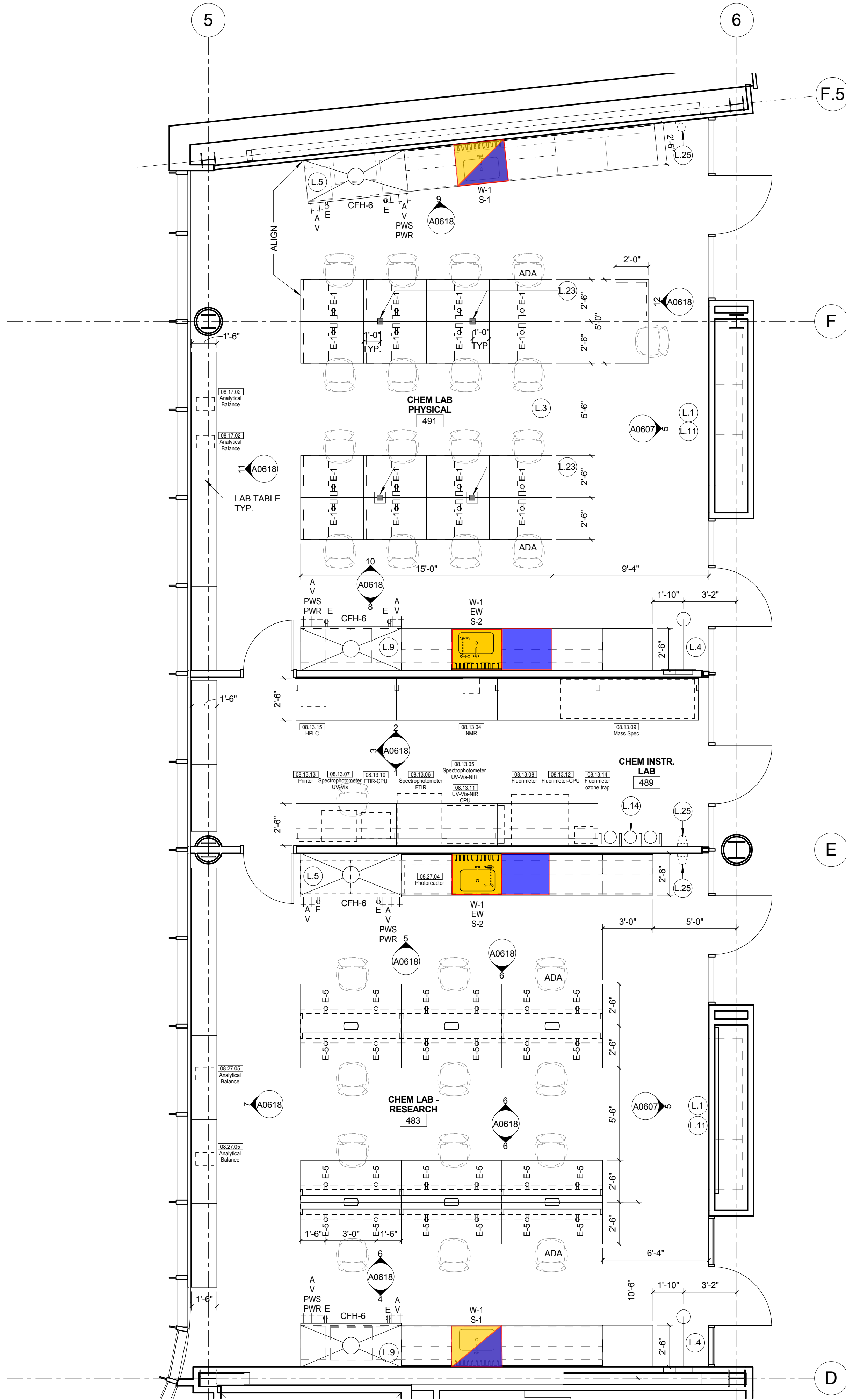
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ENLARGED PLANS-LEVEL
04

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1 L04 - AREA A - WEST CHEMISTRY LAB PLAN
1/4" = 1'-0"

LAB KEYED NOTE LEGEND

- L.1 WRITABLE AND PROJECTABLE SURFACE. DIMENSIONS AS NOTED
- L.2 RECESSED. CEILING MOUNTED PROJECTION SCREEN
- L.3 WALL MOUNTED PROJECTOR ABOVE
- L.4 EMERGENCY SAFETY SHOWER WITH EYEWASH
- L.5 115313 CHEMICAL FUME HOOD W/ STORAGE BELOW. TYPICAL FUME HOOD TO HAVE ELECTRIC AND UTILITIES AS INDICATED.
- L.7 WOOD LAB CASEWORK MICROSCOPE CAB
- L.8 WOOD LAB CASEWORK TALL CABINET WITH OPEN CUBBIES FOR BOOK BAG STORAGE
- L.9 115313 CHEMICAL FUME HOOD - ACCESSIBLE - WITH MOBILE STORAGE BELOW, WHERE SHOWN. TYPICAL FUME HOOD TO HAVE ELECTRIC, AND UTILITIES AS INDICATED.
- L.11 CABS BELOW WHITEBOARD
- L.12 CAMERA FOR SKYPE INTERVIEW
- L.14 GAS CYLINDER STORAGE RACK (CFI), CYLINDERS TO BE "OF" OF
- L.15 RECESSED MOTORIZED ROOM DARKENING / BLACKOUT SHADES. USE DOUBLE SHADES AT WEST CLASSROOMS LEVEL 02 AND LECTURE HALL. REFER TO REFLECTED CEILING PLANS
- L.16 LCD MONITOR
- L.18 MOBILE LABORATORY CASEWORK SYSTEM. SEE DETAIL 09/A0911.
- L.19 MOVEABLE WOOD LABORATORY CASEWORK: TABLE WITH MODIFIED EPOXY COUNTERTOP. CABINETS SUSPENDED BELOW AS INDICATED.
- L.20 FIXED WOOD LABORATORY CASEWORK - BASE CABINETS. MODIFIED EPOXY COUNTERTOP. WALL CABINETS AS SHOWN ON ELEVATION
- L.21 SEE CEILING PLAN FOR CEILING MOUNTED UNISTRUT SYSTEM SUPPORTED BY STRUCTURE ABOVE
- L.22 8" DEEP V 6" WIDE TRENCH WITH METAL COVER TO RECIEVE FLOOR FINISH TO MATCH ADJACENT FLOOR
- L.23 FLOOR BOX FOR ELECTRICAL & DATA
- L.24 09/6668 DRY ERASE FINISH (AWC-1)
- L.25 PROVIDE BLOCKING FOR FIRE EXTINGUISHER. MOUNTING HEIGHT - 3'-0" TO TOP OF EXTINGUISHER. FIRE EXTINGUISHER & ITS BRACKET BY OWNER.
- L.26 POINT EXHAUST (SNORKEL) FOR SOLDERING. SEE DETAIL S/ A0913.

LAB UTILITY LEGEND

- CW WATER COLD WATER FAUCET. DECK MOUNTED GOOSENECK WITH SERRATED NOZZLE. VACUUM BREAKER.
- W-1 WATER GENERAL MIXING FAUCET. DECK MOUNTED WITH VACUUM BREAKER. SERRATED NOZZLE.
- DI WATER DI WATER FAUCET DECK MOUNTED.
- PWS WATER PROCESS COLD WATER SUPPLY.
- EW WATER PROCESS COLD WATER RETURN.
- EW WATER EYEWASH. DECK MOUNTED. AUTOFLOW SWING-DOWN. WATER DRENCH HOSE.
- G GAS FUME HOOD CONTROL
- V VAC FUME HOOD CONTROL
- V-3 VAC WALL MOUNTED. SINGLE SERRATED OUTLET
- V-1 VAC TURRET BASE. SINGLE SERRATED OUTLET
- V-4 VAC OUTLET FOR BIOSAFETY CABINET CONNECTIONS
- V-5 VAC QUICK DISCONNECT FOR OVERHEAD SERVICE CARRIER
- A AIR FUME HOOD CONTROL
- A-1 AIR TURRET BASE. SINGLE SERRATED OUTLET
- A-3 AIR WALL MOUNTED. SINGLE SERRATED OUTLET
- A-4 AIR OUTLET FOR BIOSAFETY CABINET CONNECTIONS
- A-5 AIR QUICK DISCONNECT FOR OVERHEAD SERVICE CARRIER
- N NITROGEN FUMEHOOD CONTROL
- E ELEC DUPLEX OUTLET (CFI) ON FUME HOOD
- E-1 ELEC COUNTERTOP MOUNTED PEDESTAL. (1) DUPLEX ELECTRICAL OUTLET.
- E-2 ELEC COUNTERTOP MOUNTED PEDESTAL. (2) DUPLEX ELECTRICAL OUTLET.
- E-3 ELEC WALL MOUNTED. (1) DUPLEX ELECTRICAL OUTLET.
- E-5 ELEC DUPLEX ELECTRICAL OUTLET ON OVERHEAD SERVICE CARRIER
- E-6 ELEC DUPLEX ELECTRICAL OUTLET ON TABLE APRON
- D DATA DATA OUTLET
- D-1 DATA COUNTERTOP MOUNTED PEDESTAL. (2) DATA OUTLETS
- D-5 DATA DATA OUTLET ON OVERHEAD SERVICE CARRIER
- D-6 DATA DATA OUTLET ON TABLE APRON
- CS CUP SINK LIPPED MODIFIED EPOXY CUP SINK. 9"X3" W OVAL (DROP-IN).
- S-1 SINK LIPPED MODIFIED EPOXY ADA SINK 25"Lx15"Wx10"D (DROP-IN).
- S-2 SINK LIPPED MODIFIED EPOXY ADA SINK 25"Lx15"Wx6"D (DROP-IN).
- S-3 SINK STAINLESS STEEL SINK 25"Lx15"Wx10"D (DROP-IN).
- S-4 SINK STAINLESS STEEL ADA SINK 25"Lx15"Wx6"D (DROP-IN).
- S-5 SINK LIPPED MODIFIED EPOXY ADA SINK 18"Lx15"Wx5"D (DROP-IN).
- S-6 SINK LIPPED MODIFIED EPOXY SINK. 36"Lx15"Wx10"D (DROP-IN).
- OSC OVERHEAD SERVICE CARRIER. SEE DETAIL 10 / A0913.
- PTD PAPER TOWEL DISPENSER

CHEMICAL FUME HOOD LEGEND

- CFH-4 4'-0" WIDE CHEMICAL FUME HOOD
- CFH-6 6'-0" WIDE CHEMICAL FUME HOOD

LAB GENERAL NOTES

- ALL DIMENSIONS ARE TO GWB FACE PARTITION OR COLUMN CENTER LINE U.N.O.
- OWNER FURNISHED OWNER INSTALLED (OF/OI) ITEMS ARE SHOWN DASHED FOR REFERENCE ONLY. COORDINATE SIZE AND INSTALLATION REQUIREMENTS WITH OWNER'S REPRESENTATIVE.
- CENTER ALL DRYING RACKS WITH DRIP STOP TROUGHS ABOUT CENTERLINE OF SINKS. U.N.O.
- ALL APRONS AT OPEN KNEE SPACE TO BE 4" U.N.O. PROVIDE APRON OF SOLID WOOD WITH EASED BOTTOM EDGE. FINISH TO MATCH VENEER SPECIES. MAINTAIN MINIMUM 2" CLEAR ABOVE FLOOR FINISH.
- CENTER ALL COUNTERTOP MOUNTED UTILITY OUTLETS ON CENTER OF CASEWORK U.N.O.
- ALL SURFACE MOUNTED RACEWAY TO HAVE OUTLETS AT 2'-0" O.C. AND SHALL BE MOUNTED DIRECTLY ABOVE BACKSPLASH U.N.O.
- ALL BACKSPLASHES TO BE 4" HIGH U.N.O.
- DASHED LINES ON ELEVATIONS INDICATED ADJUSTABLE SHELVING INSIDE CASEWORK.
- PROVIDE FINISHED BACK PANEL AT KNEE SPACES BELOW ALL FUMEHOODS. TYPICAL. SIMILAR TO DETAIL.
- PROVIDE FINISHED BACK PANEL AT ALL KNEE SPACES. TYPICAL
- PROVIDE LOCK AND KEY WHERE A CIRCLE NEXT TO DRAWER OR DOOR HANDLE IS SHOWN OR WHERE NOTED.
- REFER SHEETS A001x FOR LABORATORY CASEWORK / MILLWORK DETAILS.
- FOR TYPICAL MOUNTING HEIGHTS REF. 1/A0911
- ALL CASEWORK TO BE WOOD U.N.O.
- ALL CASEWORK IS LABORATORY CASEWORK UNLESS NOTED AS MILLWORK OR OF/OI. SEE DIVISION 12 3555 - LABORATORY CASEWORK FOR SPECIFICATIONS.
- ALL EQUIPMENT ITEMS HAVE A EQUIPMENT TAG - XX-XX-XX. SEE SHEETS A11xx FOR EQUIPMENT SCHEDULES.
- PROVIDE PAPER TOWEL DISPENSER (PTD) AT EACH SINK LOCATION.



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**PART OF
EXHIBIT-A**

CONFORMED SET

01 JUL 2016

ISSUED FOR CONSTRUCTION (BP3) 15 MAR 2016
No. Description Date

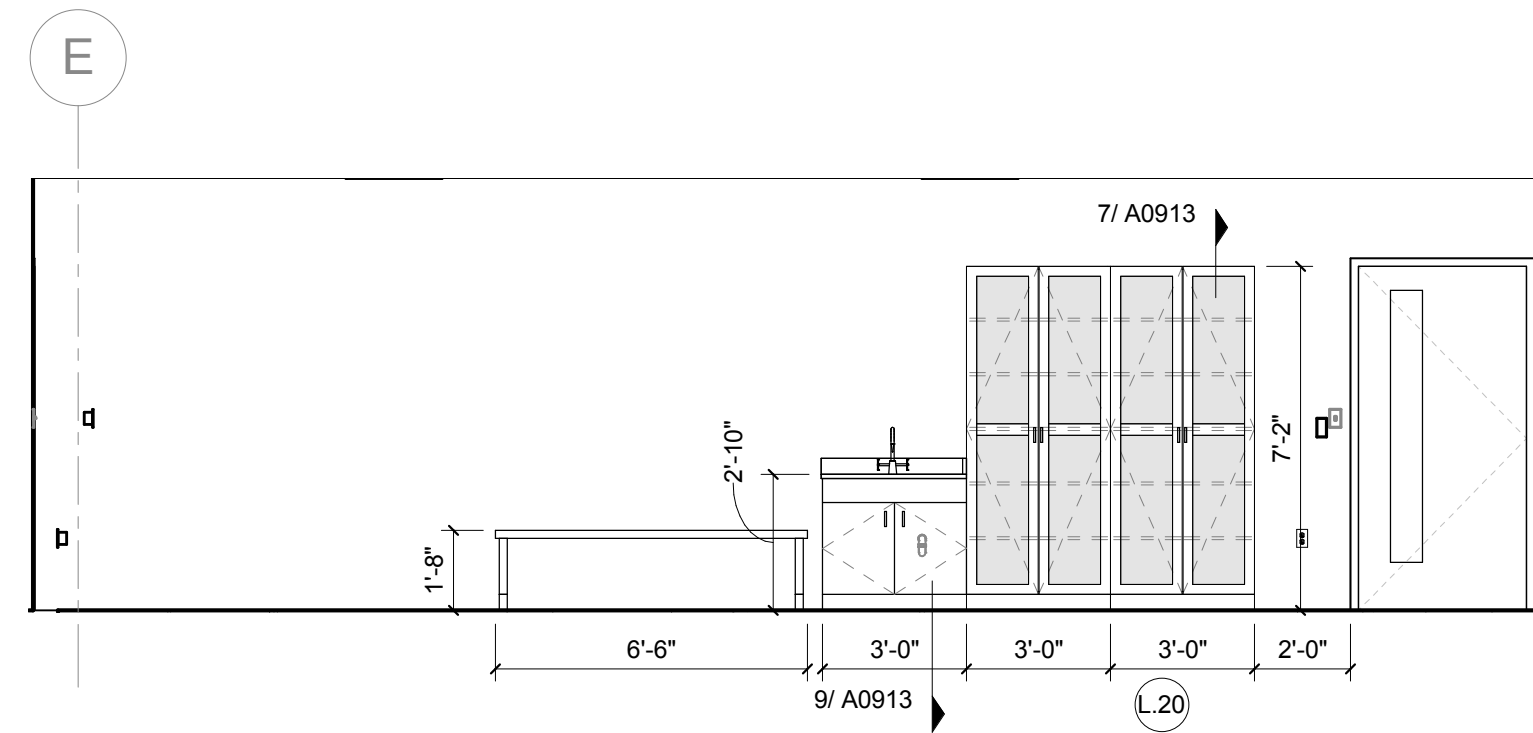
Drawing Title:

**ENLARGED PLANS-LEVEL
04**

Project No.: 04561.01 Checked by:

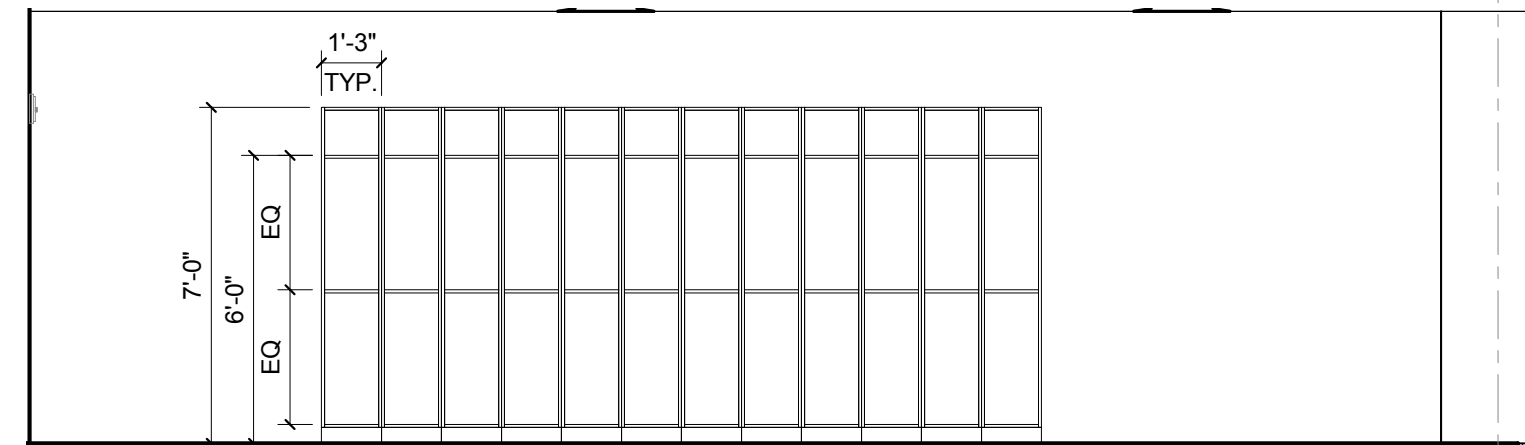
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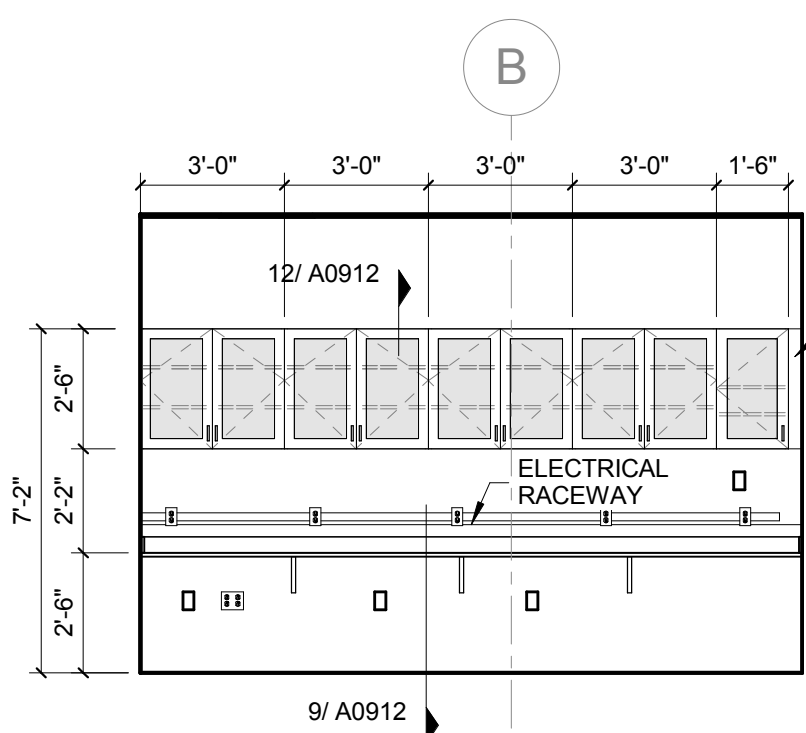
19 L01 BIO VESTIBULE - EAST

1/4" = 1'-0"



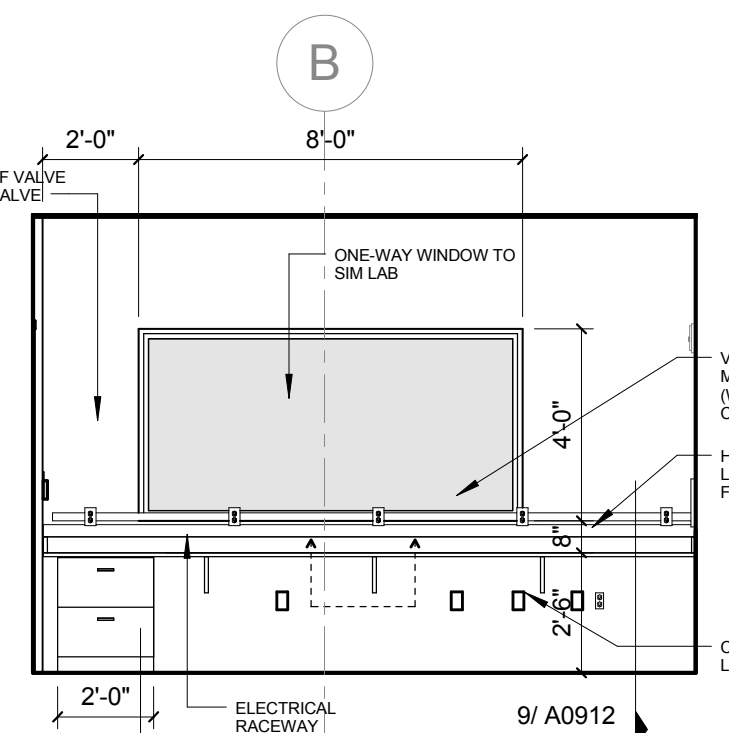
18 L01 BIO VESTIBULE - WEST

1/4" = 1'-0"



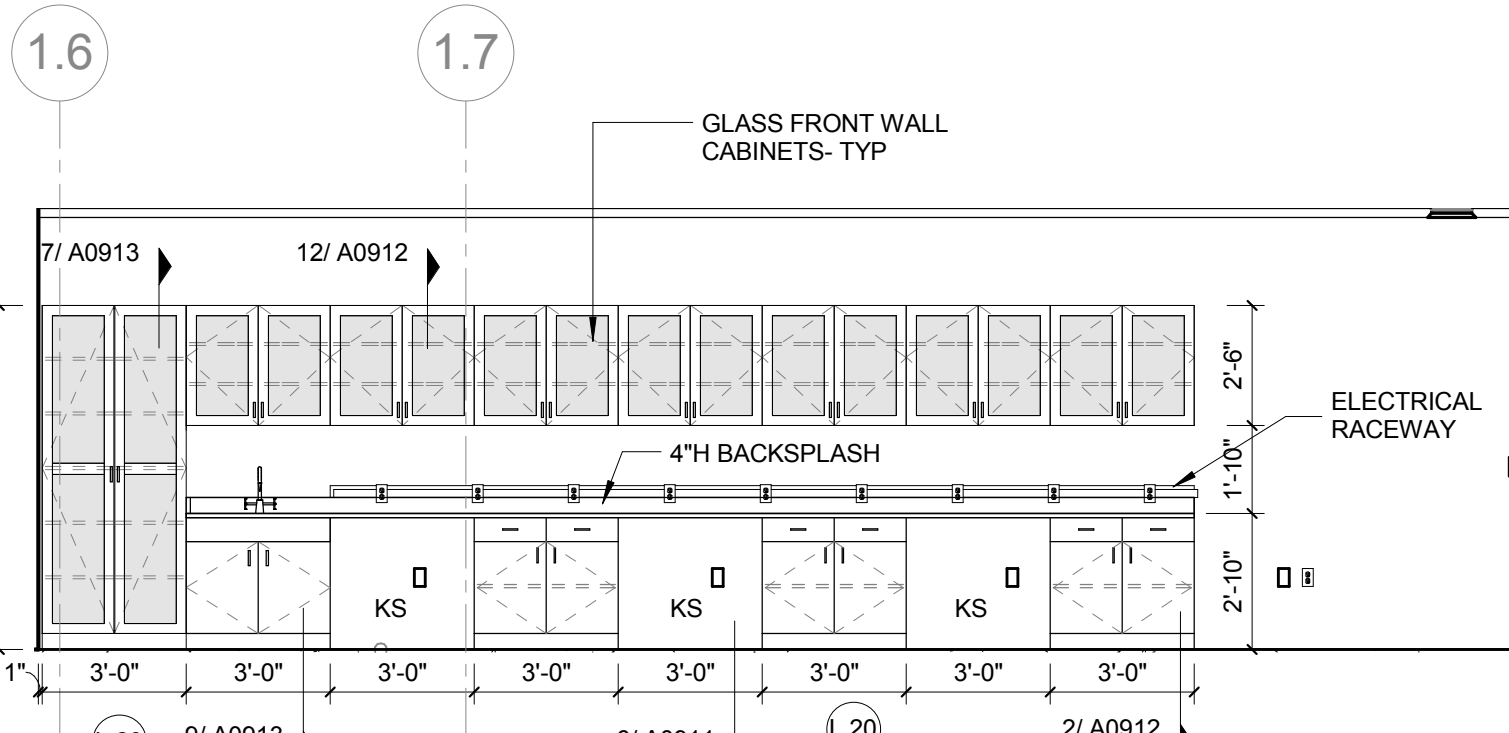
16 L01 CONTROL ROOM - EAST

1/4" = 1'-0"



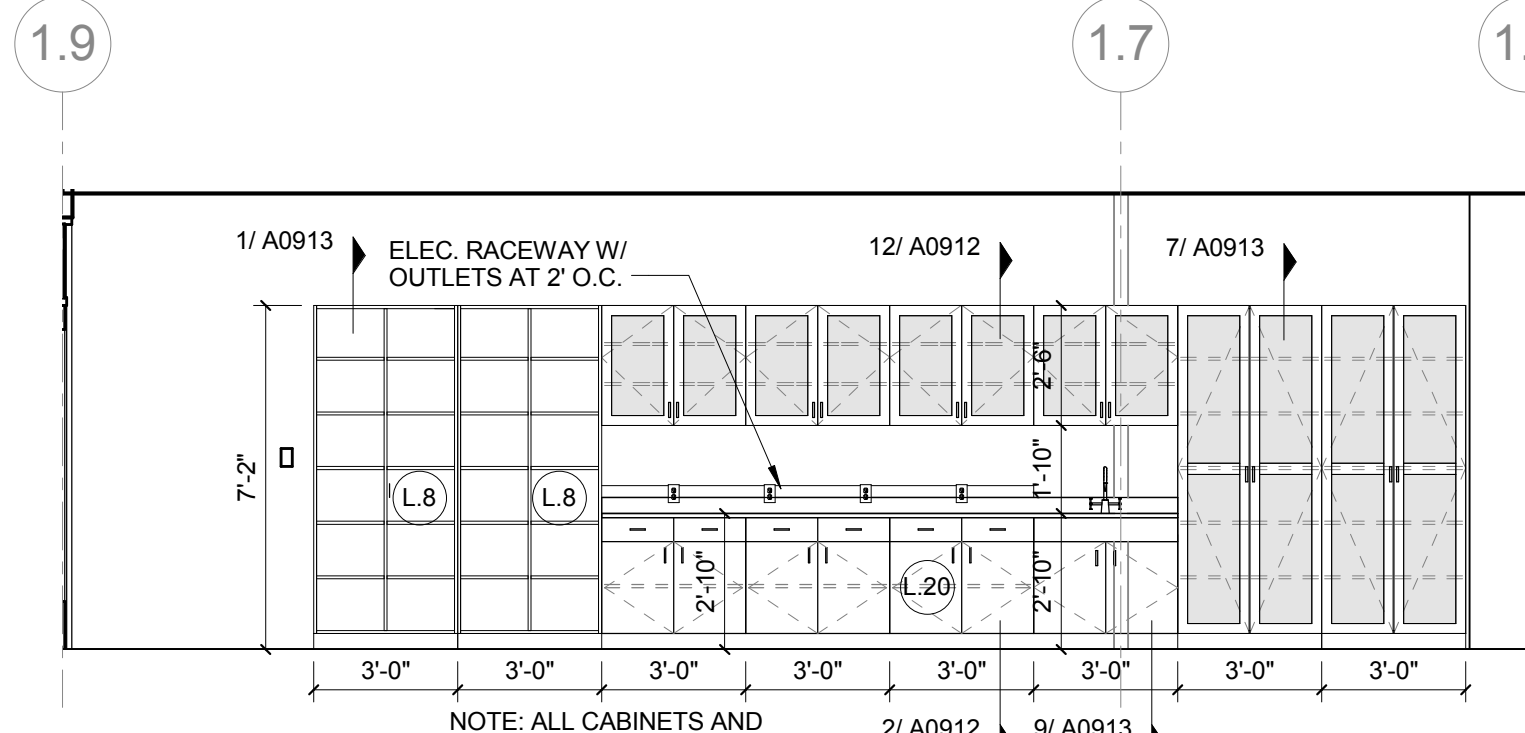
15 L01 CONTROL ROOM - WEST

1/4" = 1'-0"



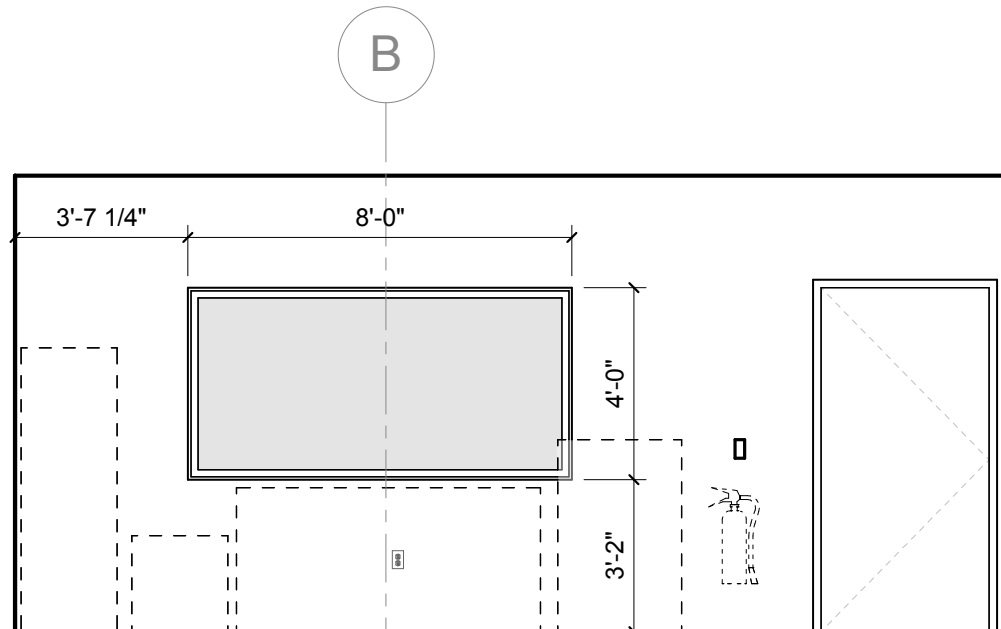
14 L01 MODEL ASSESSMENT 7.05 NORTH

1/4" = 1'-0"



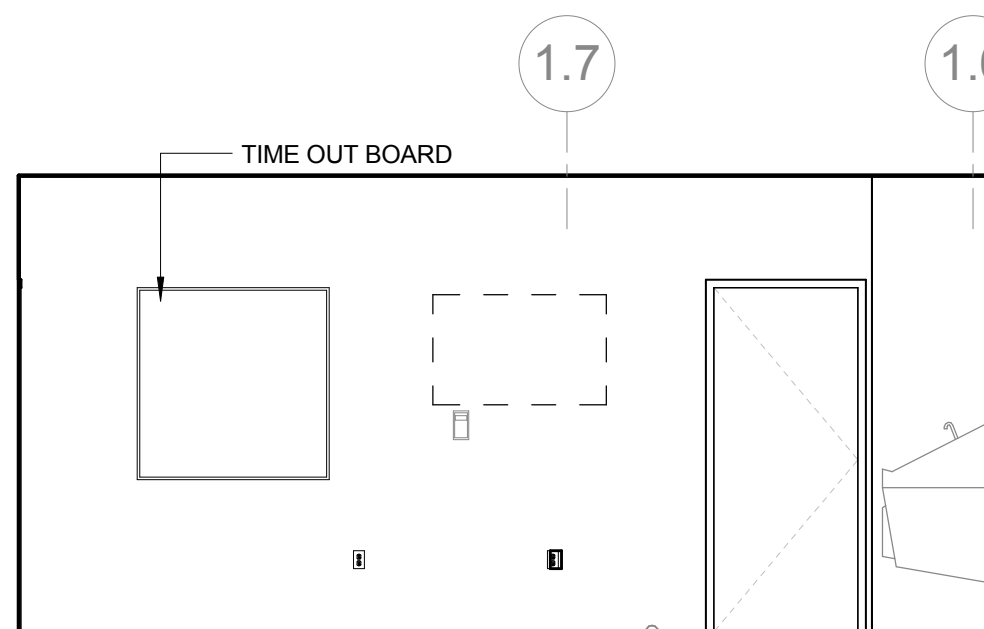
13 L01 HEALTH ASSESSMENT - SOUTH

1/4" = 1'-0"



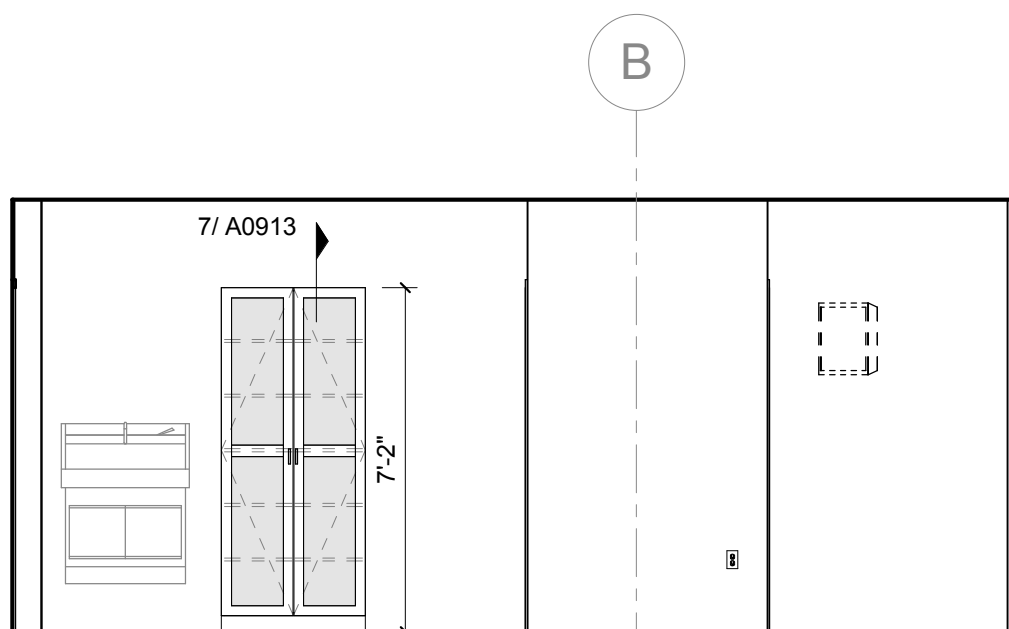
12 L01 SIM LAB - EAST

1/4" = 1'-0"



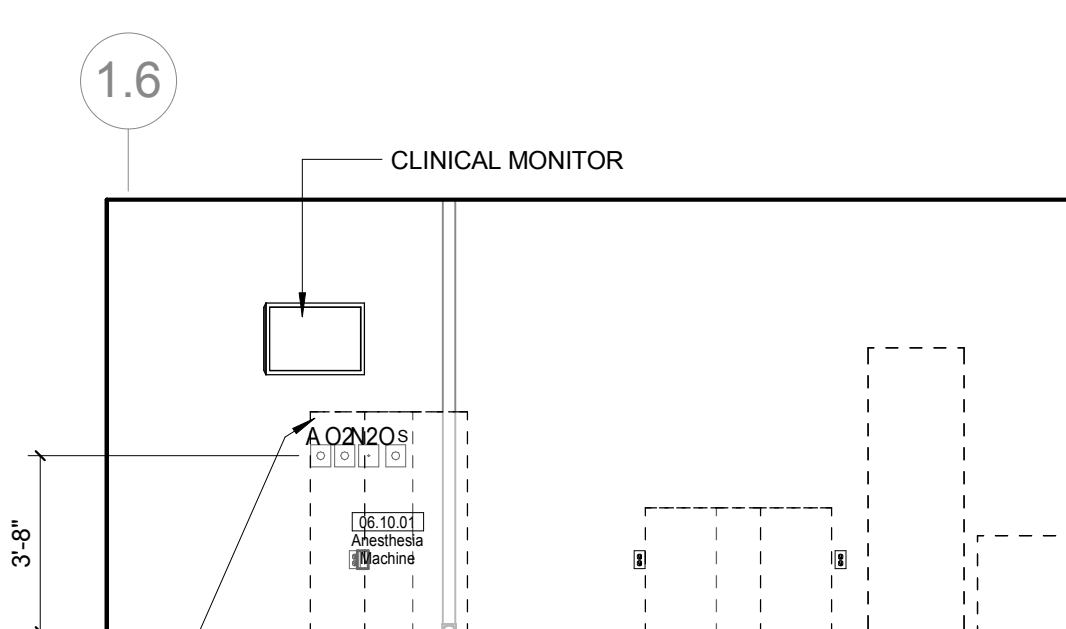
11 L01 SIM LAB - SOUTH

1/4" = 1'-0"



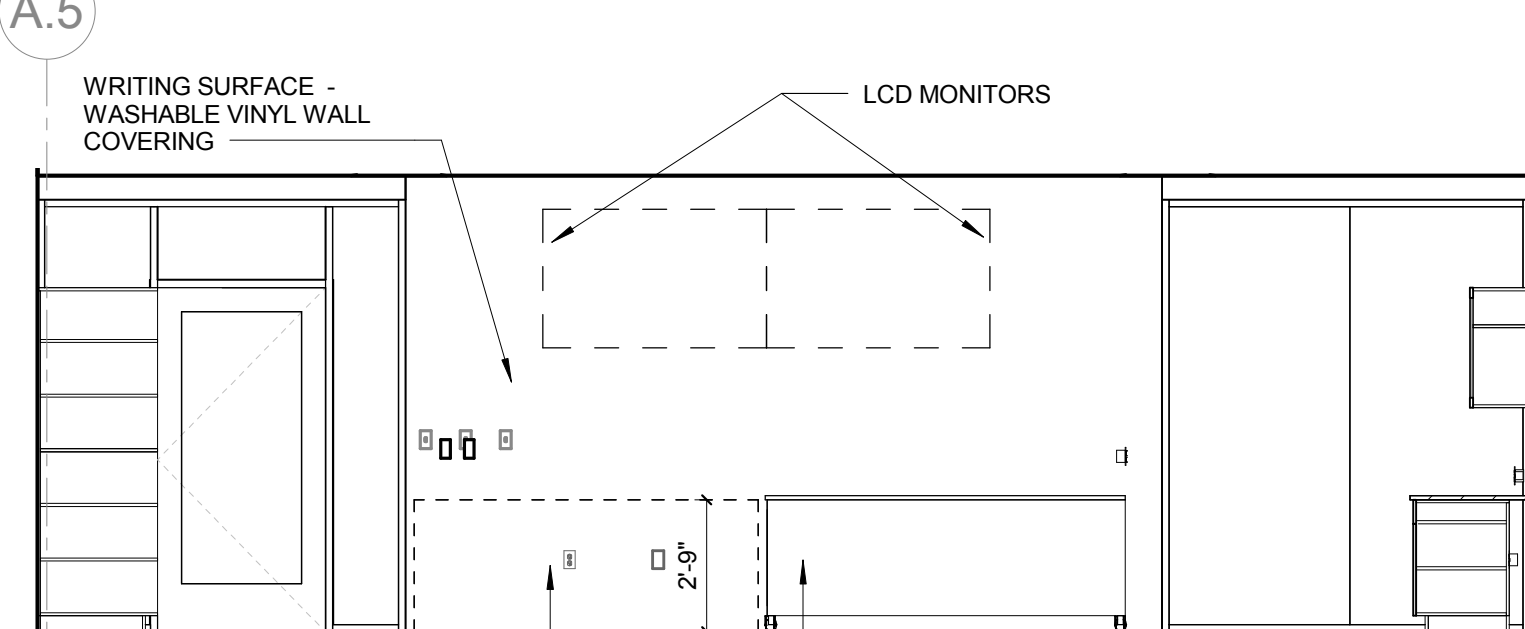
10 L01 SIM LAB - WEST

1/4" = 1'-0"



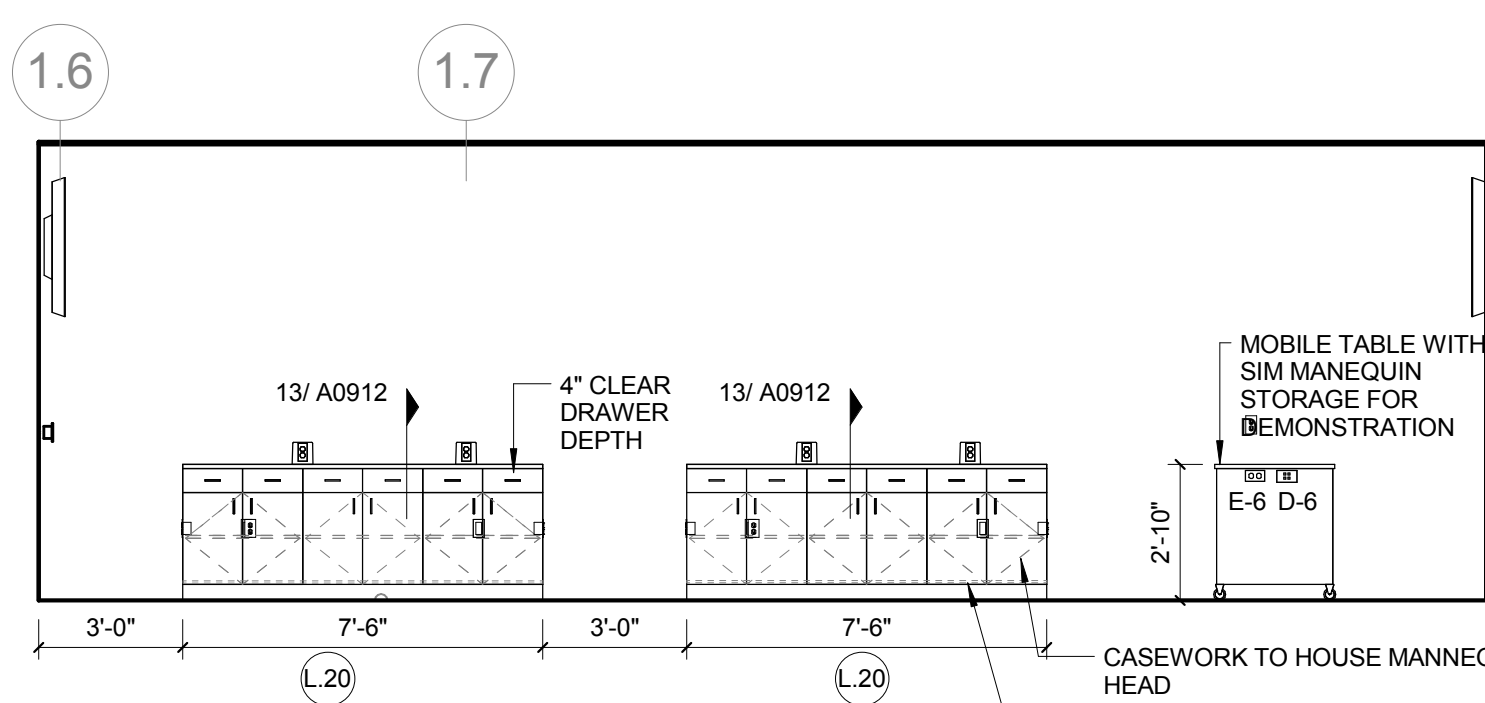
9 L01 SIM LAB - NORTH

1/4" = 1'-0"



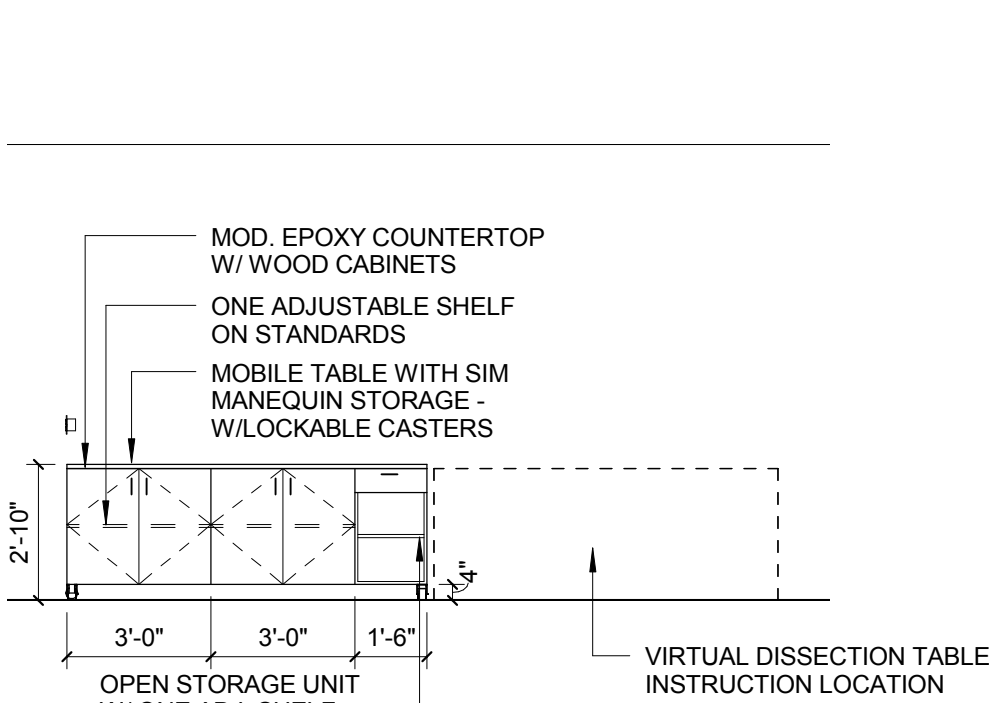
8 L01 DRY SKILLS LAB - EAST

1/4" = 1'-0"



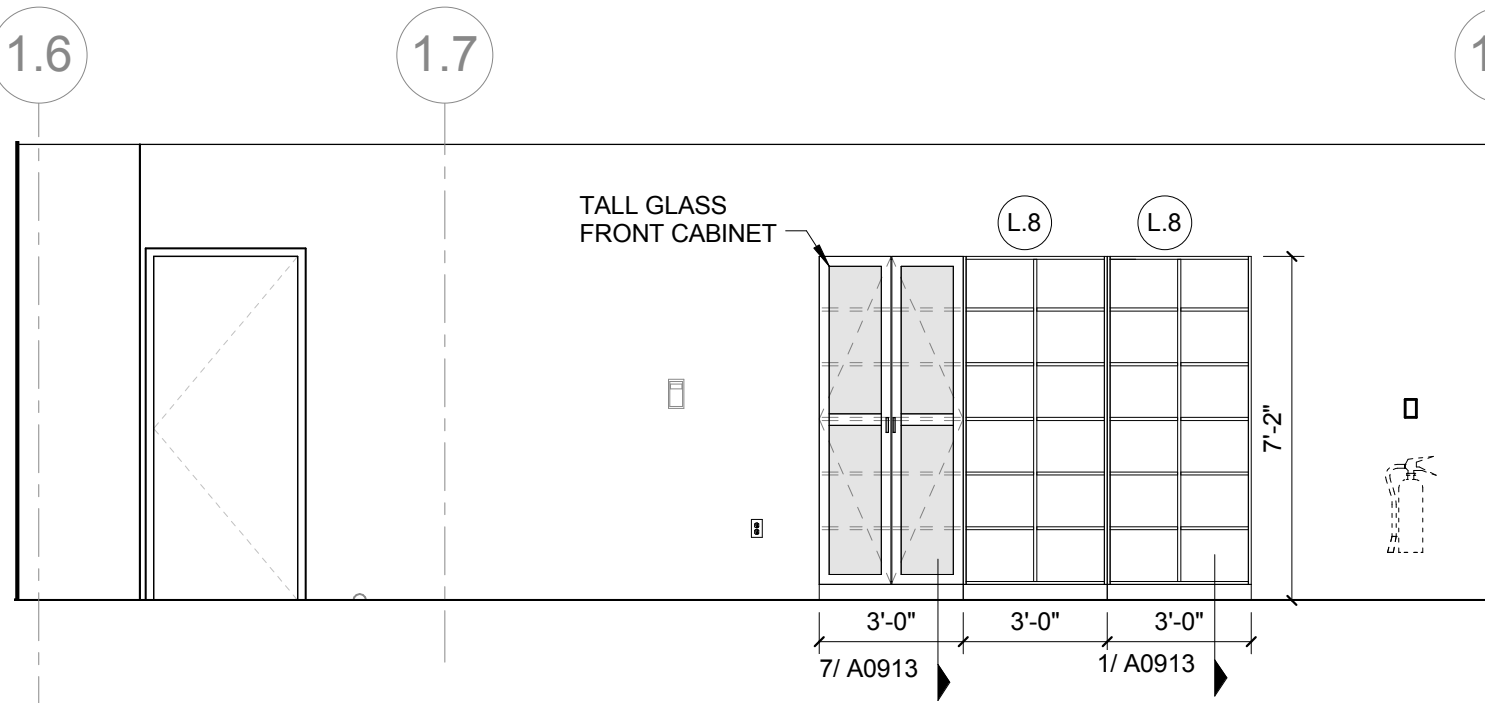
7 L01 DRY SKILLS - STUDENT STATION

1/4" = 1'-0"



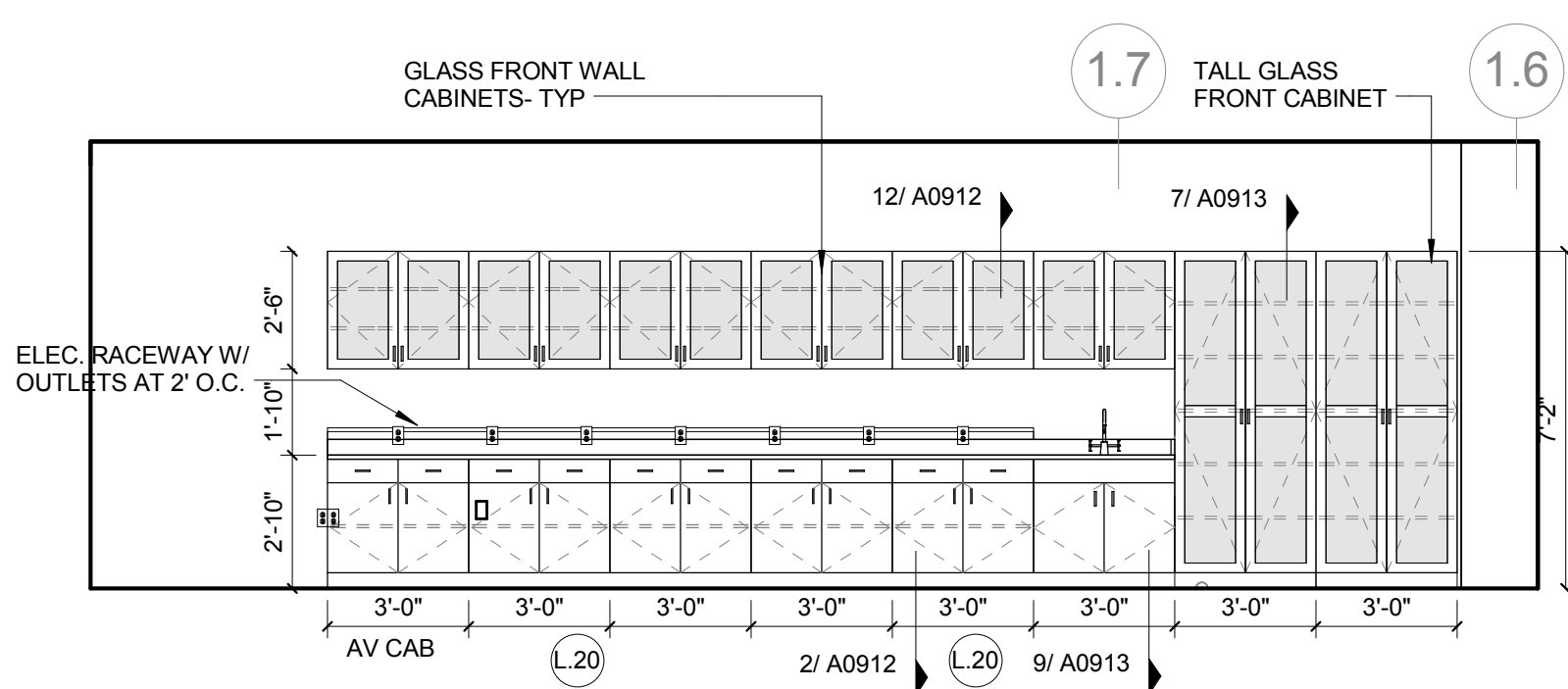
6 DRY SKILLS LAB MOBILE TABLE

1/4" = 1'-0"



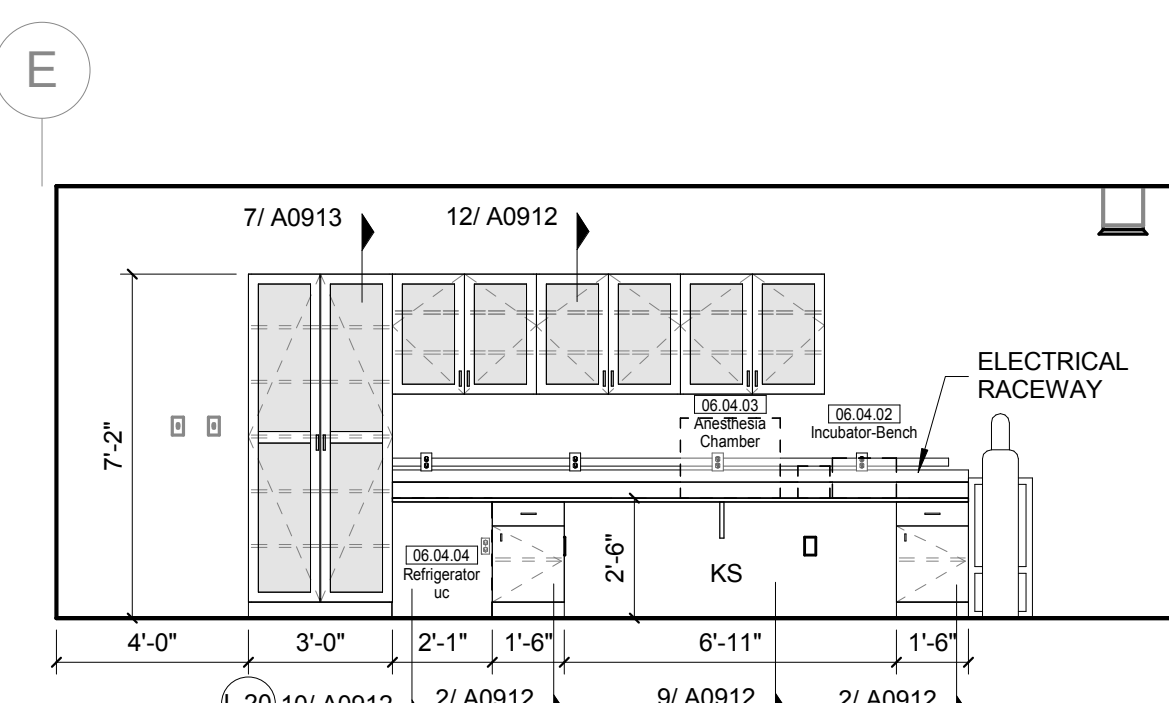
5 L01 DRY SKILLS LAB - NORTH

1/4" = 1'-0"



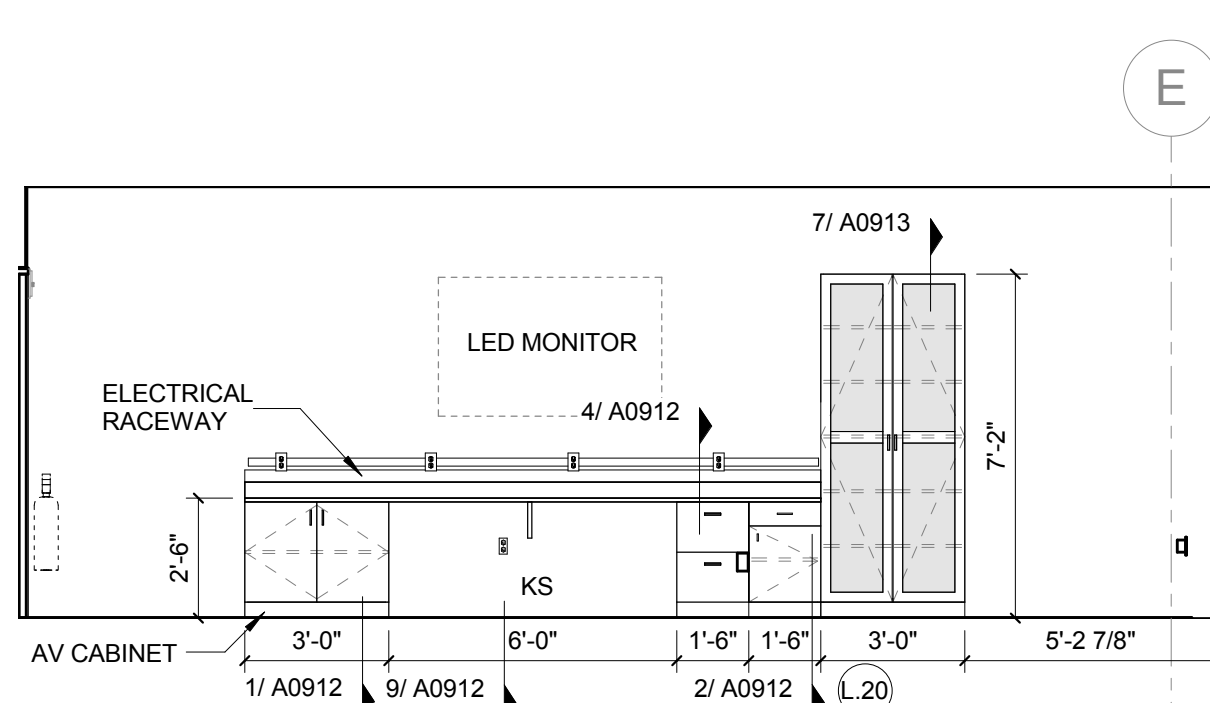
4 L01 DRY SKILLS LAB - SOUTH

1/4" = 1'-0"



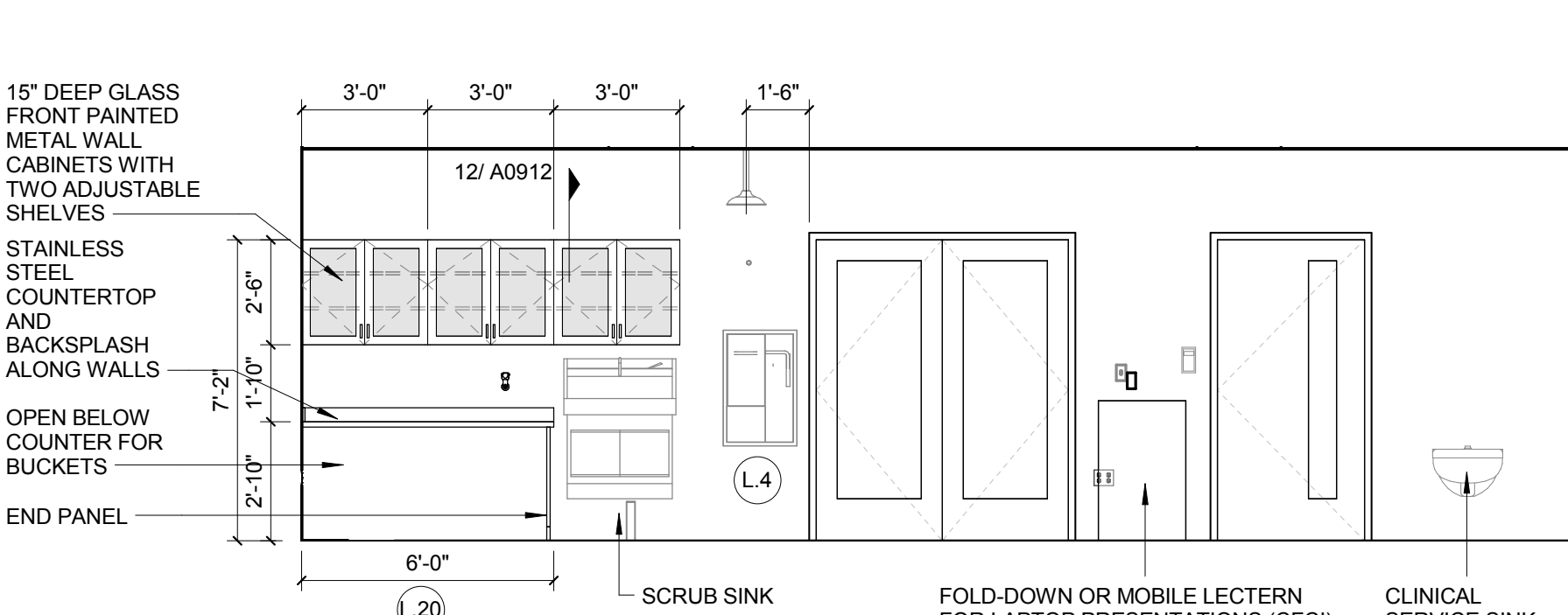
3 L01 CADAVER STORAGE/WORKROOM - EAST

1/4" = 1'-0"



2 L01 CADAVER STORAGE/WORKROOM - WEST

1/4" = 1'-0"



1 L01 CADAVER LAB ELEVATION

1/4" = 1'-0"

LAB KEYED NOTE LEGEND

- L1 WRITABLE AND PROJECTABLE SURFACE, DIMENSIONS AS NOTED
- L2 RECESSED, CEILING MOUNTED PROJECTION SCREEN
- L3 WALL MOUNTED PROJECTOR ABOVE
- L4 EMERGENCY SAFETY SHOWER WITH EYEWASH
- L5 115313 CHEMICAL FUME HOOD W/ STORAGE BELOW, TYPICAL FUME HOOD TO HAVE ELECTRIC AND UTILITIES AS INDICATED.
- L6 WOOD LAB CASEWORK MICROSCOPE CAB
- L7 WOOD LAB CASEWORK: TALL CABINET WITH OPEN CUBBIES FOR BOOK BAG STORAGE.
- L8 115313 CHEMICAL FUME HOOD - ACCESSIBLE - WITH MOBILE STORAGE BELOW, WHERE SHOWN, TYPICAL FUME HOOD TO HAVE ELECTRIC, AND UTILITIES AS INDICATED.
- L9 CABS BELOW WHITEBOARD
- L10 CAMERA FOR SKYPE INTERVIEW
- L11 GAS CYLINDER STORAGE RACK (CFI), CYLINDERS TO BE "O.F.O."
- L12 RECESSED MOTORIZED ROOM DARKENING / BLACKOUT SHADES. USE DOUBLE SHADES AT WEST CLASSROOMS LEVEL 02 AND LECTURE HALL. REFER TO REFLECTED CEILING PLANS
- L13 LCD MONITOR
- L14 MOBILE LABORATORY CASEWORK SYSTEM. SEE DETAIL 09/A0911.
- L15 MOVEABLE WOOD LABORATORY CASEWORK: TABLE WITH MODIFIED EPOXY COUNTERTOP, CABINETS SUSPENDED BELOW AS INDICATED.
- L16 FIXED WOOD LABORATORY CASEWORK: BASE CABINETS, MODIFIED EPOXY COUNTERTOP, WALL CABINETS AS SHOWN ON ELEVATION
- L17 SEE CEILING PLAN FOR CEILING MOUNTED UNISTRUT SYSTEM SUPPORTED BY STRUCTURE ABOVE
- L18 8" DEEP X 6" WIDE TRENCH WITH METAL COVER TO RECEIVE FLOOR FINISH TO MATCH ADJACENT FLOOR
- L19 FLOOR BOX FOR ELECTRICAL & DATA
- L20 08 6666 DRY ERASE FINISH (AWC-1)
- L21 PROVIDE BLOCKING FOR FIRE EXTINGUISHER, MOUNTING HEIGHT - 3'-0" TO TOP OF EXTINGUISHER. FIRE EXTINGUISHER & ITS BRACKET BY OWNER.
- L22 POINT EXHAUST (SNORKEL) FOR SOLDERING. SEE DETAIL 5/ A0913.

LAB UTILITY LEGEND

- CW WATER COLD WATER FAUCET, DECK MOUNTED GOOSENECK WITH SERRATED NOZZLE, VACUUM BREAKER
- W-1 WATER GENERAL MIXING FAUCET, DECK MOUNTED WITH VACUUM BREAKER, SERRATED NOZZLE.
- DI WATER DI WATER FAUCET, DECK MOUNTED
- PWS WATER PROCESS COLD WATER SUPPLY
- PWR WATER PROCESS COLD WATER RETURN
- EW WATER EYEWASH, DECK MOUNTED, AUTOFLOW SWING-DOWN
- DH WATER DRENCH HOSE
- G GAS FUME HOOD CONTROL
- V VAC FUME HOOD CONTROL
- V-3 VAC WALL MOUNTED, SINGLE SERRATED OUTLET
- V-1 VAC TURRET BASE, SINGLE SERRATED OUTLET
- V-4 VAC OUTLET FOR BIOSAFETY CABINET CONNECTIONS
- V-5 VAC QUICK DISCONNECT FOR OVERHEAD SERVICE CARRIER
- A-1 AIR FUME HOOD CONTROL
- A-1 AIR TURRET BASE, SINGLE SERRATED OUTLET
- A-3 AIR WALL MOUNTED, SINGLE SERRATED OUTLET
- A-4 AIR OUTLET FOR BIOSAFETY CABINET CONNECTIONS
- A-5 AIR QUICK DISCONNECT FOR OVERHEAD SERVICE CARRIER
- N NITROGEN FUMEHOOD CONTROL
- E ELEC. DUPLEX OUTLET (GFI) ON FUME HOOD
- E-1 ELEC. COUNTERTOP MOUNTED PEDESTAL, (1) DUPLEX ELECTRICAL OUTLET.
- E-2 ELEC. COUNTERTOP MOUNTED PEDESTAL, (2) DUPLEX ELECTRICAL OUTLET.
- E-3 ELEC. WALL MOUNTED, (1) DUPLEX ELECTRICAL OUTLET.
- E-5 ELEC. DUPLEX ELECTRICAL OUTLET ON OVERHEAD SERVICE CARRIER
- E-6 ELEC. DUPLEX ELECTRICAL OUTLET ON TABLE APRON
- D DATA DATA OUTLET
- D-1 DATA COUNTERTOP MOUNTED PEDESTAL, (2) DATA OUTLETS
- D-5 DATA DATA OUTLET ON OVERHEAD SERVICE CARRIER
- D-6 DATA DATA OUTLET ON TABLE APRON
- CS CUP SINK LIPPED MODIFIED EPOXY CUP SINK, 9"LX3"W OVAL (DROP-IN).
- S-1 SINK LIPPED MODIFIED EPOXY SINK, 25"LX15"WX10"D (DROP-IN).
- S-2 SINK LIPPED MODIFIED EPOXY ADA SINK 25"LX15"WX5"D (DROP-IN).
- S-3 SINK STAINLESS STEEL SINK 25"LX15"WX10"D (DROP-IN).
- S-4 SINK STAINLESS STEEL ADA SINK 25"LX15"WX5"D (DROP-IN).
- S-5 SINK LIPPED MODIFIED EPOXY ADA SINK 18"LX15"WX5"D (DROP-IN).
- S-6 SINK LIPPED MODIFIED EPOXY SINK, 36"LX15"WX10"D (DROP-IN).
- OSC OVERHEAD SERVICE CARRIER. SEE DETAIL 10 / A0913.
- PTD PAPER TOWEL DISPENSER

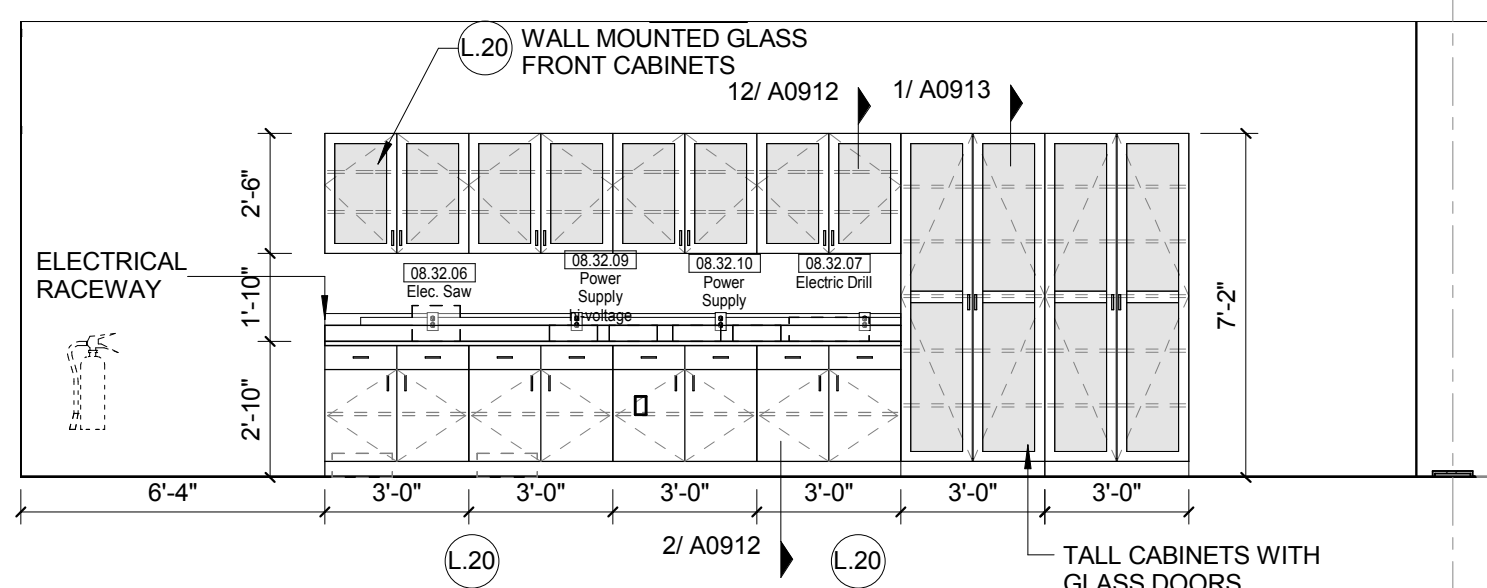
CHEMICAL FUME HOOD LEGEND

- CFH-4 4'-0" WIDE CHEMICAL FUME HOOD
- CFH-6 6'-0" WIDE CHEMICAL FUME HOOD

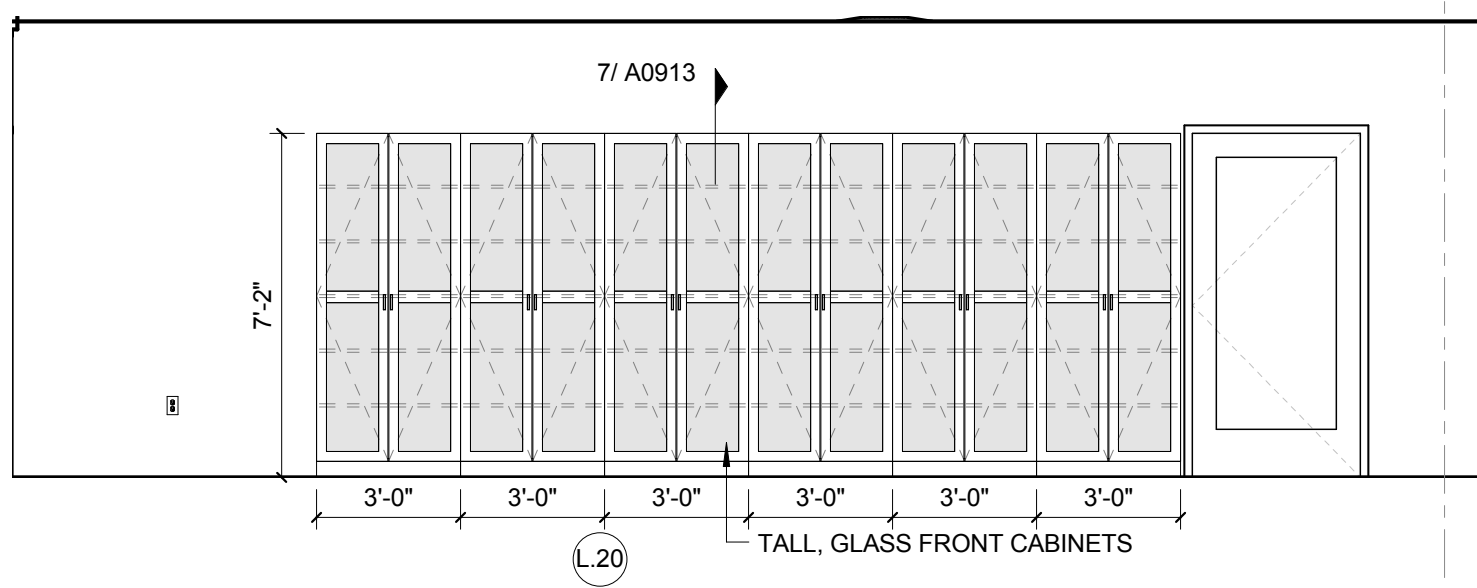
LAB GENERAL NOTES

- ALL DIMENSIONS ARE TO GWB FACE PARTITION OR COLUMN CENTERLINE U.N.O.
- OWNER FURNISHED OWNER INSTALLED (OFOI) ITEMS ARE SHOWN DASHED FOR REFERENCE ONLY. COORDINATE SIZE AND INSTALLATION REQUIREMENTS WITH OWNER'S REPRESENTATIVE.
- CENTER ALL DRYING RACKS WITH DRIP STOP TROUGHS ABOUT CENTERLINE OF SINKS, U.N.O.
- ALL APRONS AT OPEN KNEE SPACE TO BE 4" U.N.O. PROVIDE APRON OF SOLID WOOD WITH EASED BOTTOM EDGE. FINISH TO MATCH VENEER SPECIES. MAINTAIN MINIMUM 2" CLEAR ABOVE FLOOR FINISH.
- CENTER ALL COUNTERTOP MOUNTED UTILITY OUTLETS ON CENTER OF CASEWORK U.N.O.
- ALL SURFACE MOUNTED RACEWAY TO HAVE OUTLETS AT 2'-0" O.C. AND SHALL BE MOUNTED DIRECTLY ABOVE BACKSPLASH U.N.O.
- ALL BACKSPLASHES TO BE 4" HIGH U.N.O.
- DASHED LINES ON ELEVATIONS INDICATED ADJUSTABLE SHELVEING INSIDE CASEWORK.
- PROVIDE FINISHED BACK PANEL AT KNEE SPACES BELOW ALL FUMEHOODS, TYPICAL, SIMILAR TO DETAIL.
- PROVIDE FINISHED BACK PANEL AT ALL KNEE SPACES, TYPICAL.
- PROVIDE LOCK AND KEY WHERE A CIRCLE NEXT TO DRAWER OR DOOR HANDLE IS SHOWN OR WHERE NOTED.
- REFER SHEETS A0914 FOR LABORATORY CASEWORK / MILLWORK DETAILS.
- FOR TYPICAL MOUNTING HEIGHTS REF. 1/A0911
- ALL CASEWORK IS TO BE WOOD U.N.O.
- ALL CASEWORK IS LABORATORY CASEWORK UNLESS NOTED AS MILLWORK OR O.F.O. SEE DIVISION 12 3555 - LABORATORY CASEWORK FOR SPECIFICATIONS.
- ALL EQUIPMENT ITEMS HAVE A EQUIPMENT TAG - XXX-XXX. SEE SHEETS A114 FOR EQUIPMENT SCHEDULES.
- PROVIDE PAPER TOWEL DISPENSER (PTD) AT EACH SINK LOCATION.

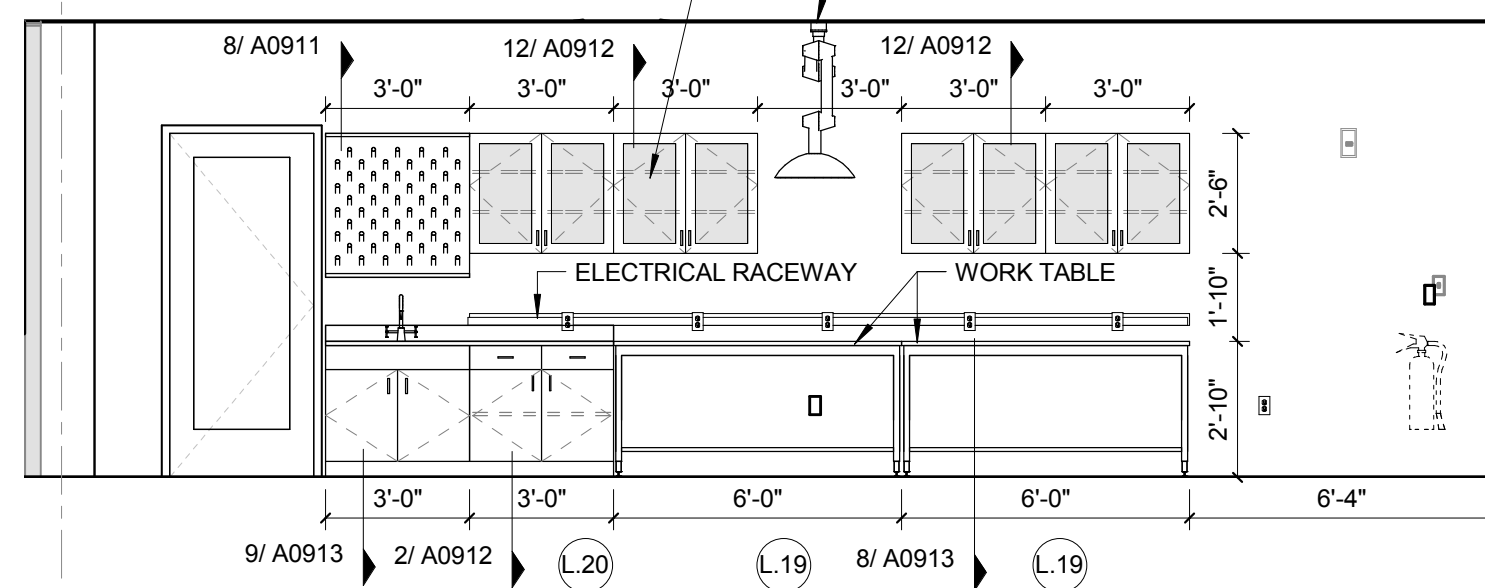
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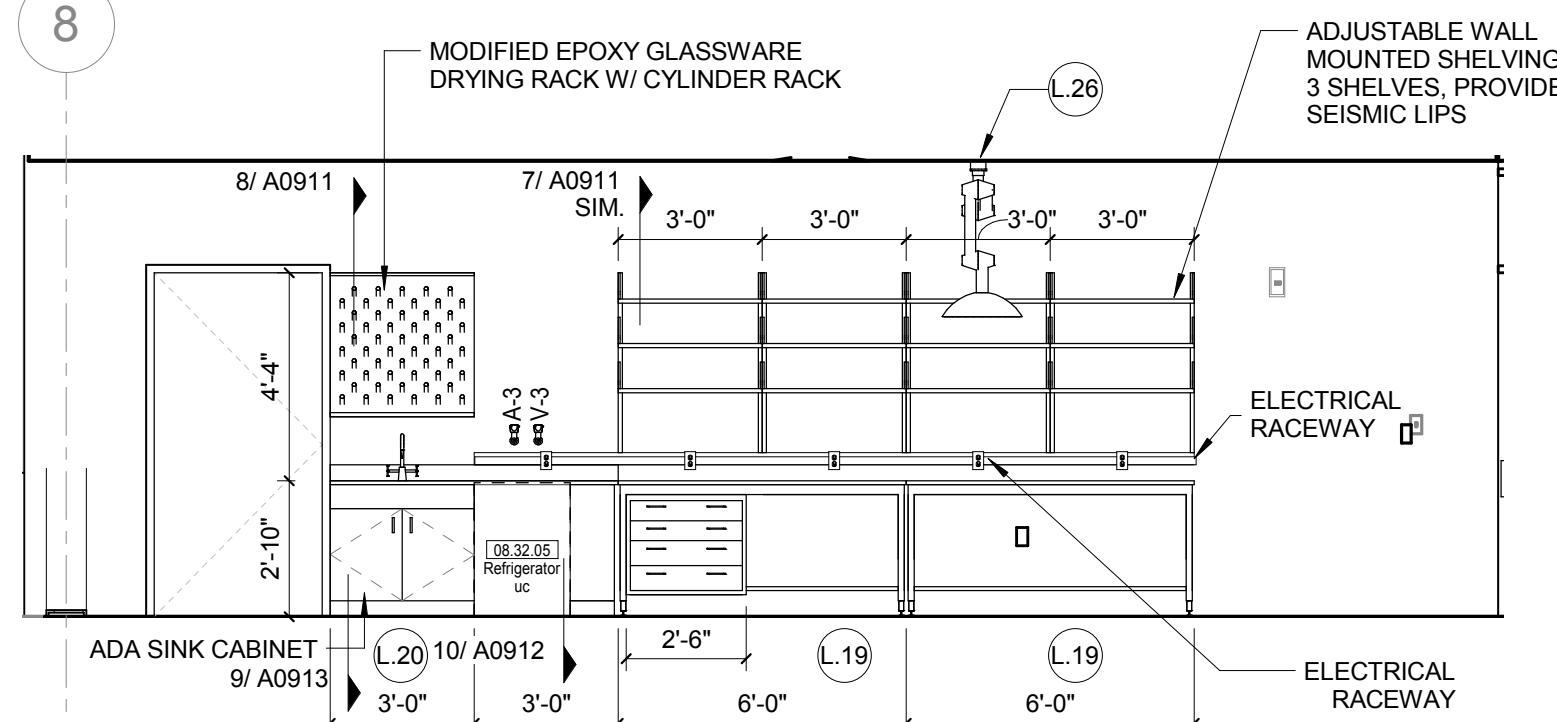
12 L02 PHYSICS RESEARCH - NORTH
1/4" = 1'-0"



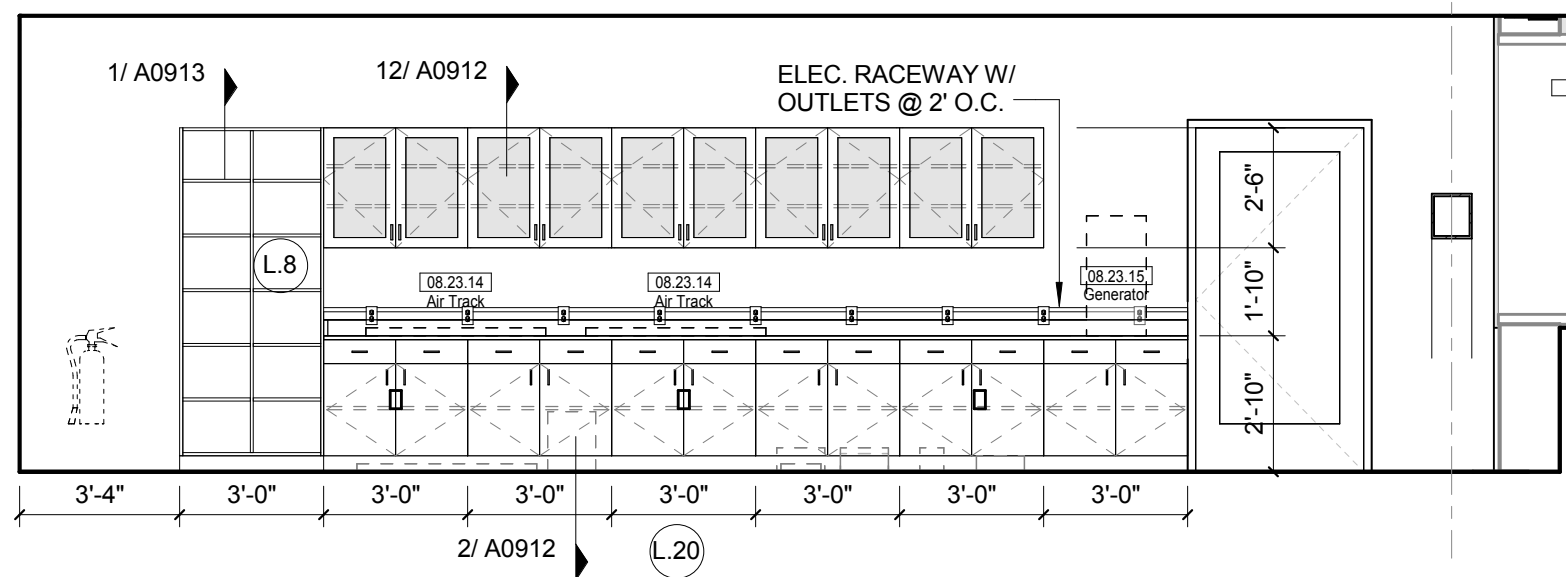
11 L02 PHYSICS LAB PREP - NORTH
1/4" = 1'-0"



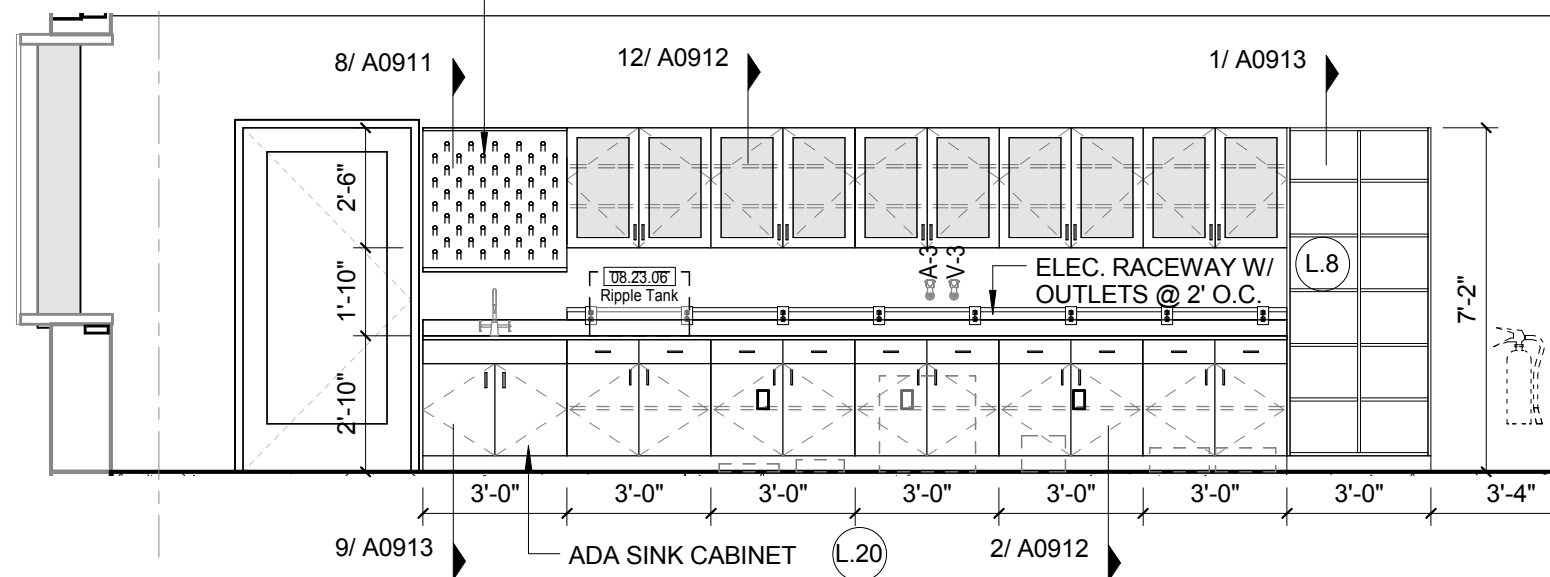
10 L02 PHYSICS LAB PREP - SOUTH
1/4" = 1'-0"



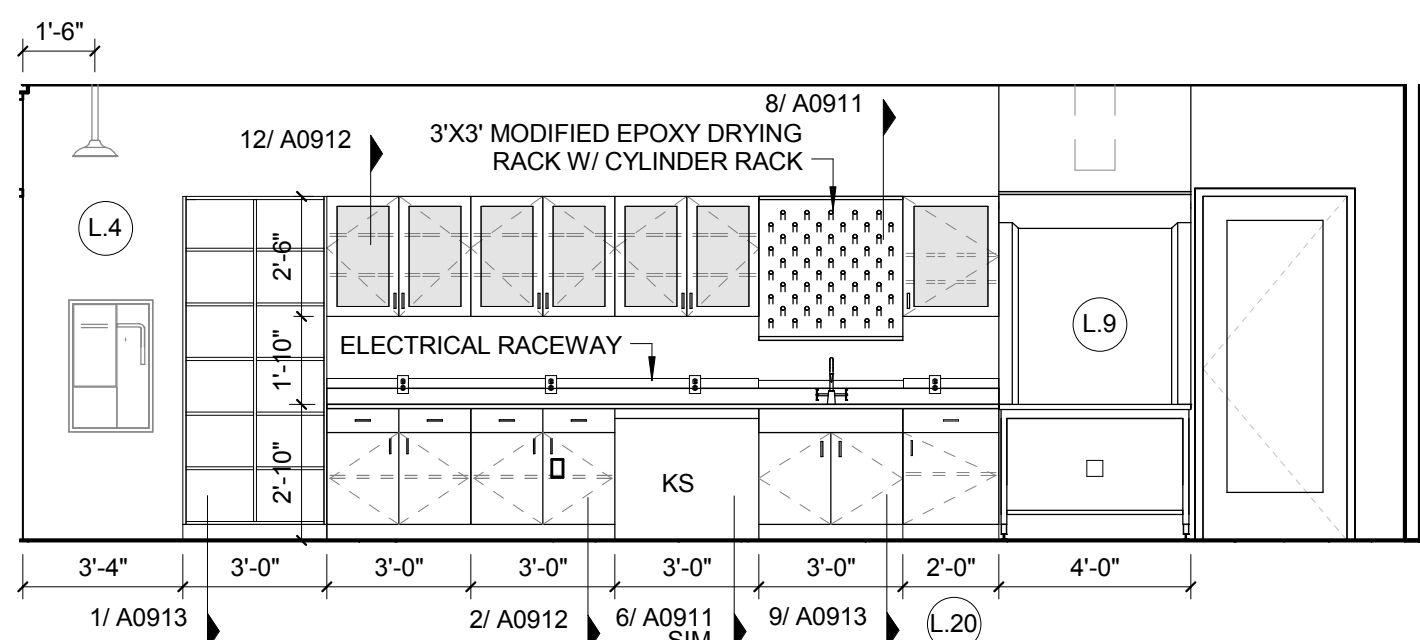
9 L02 PHYSICS RESEARCH - SOUTH
1/4" = 1'-0"



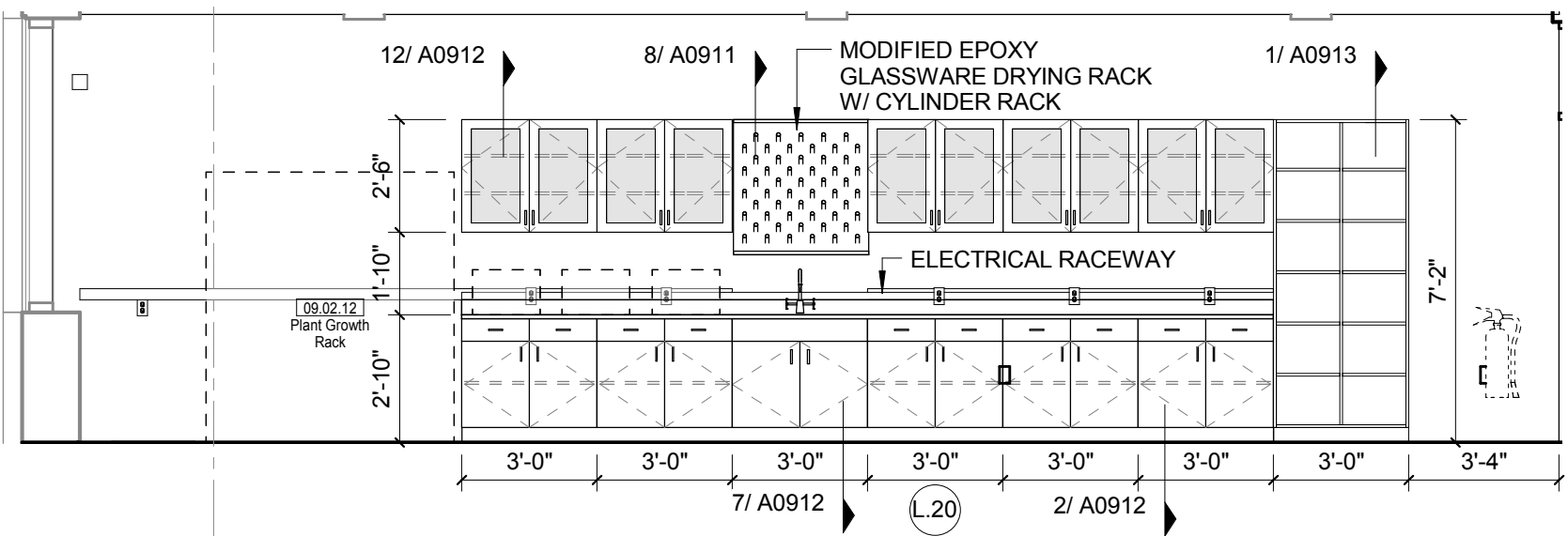
8 L02 - PHYSICS LAB NORTH
1/4" = 1'-0"



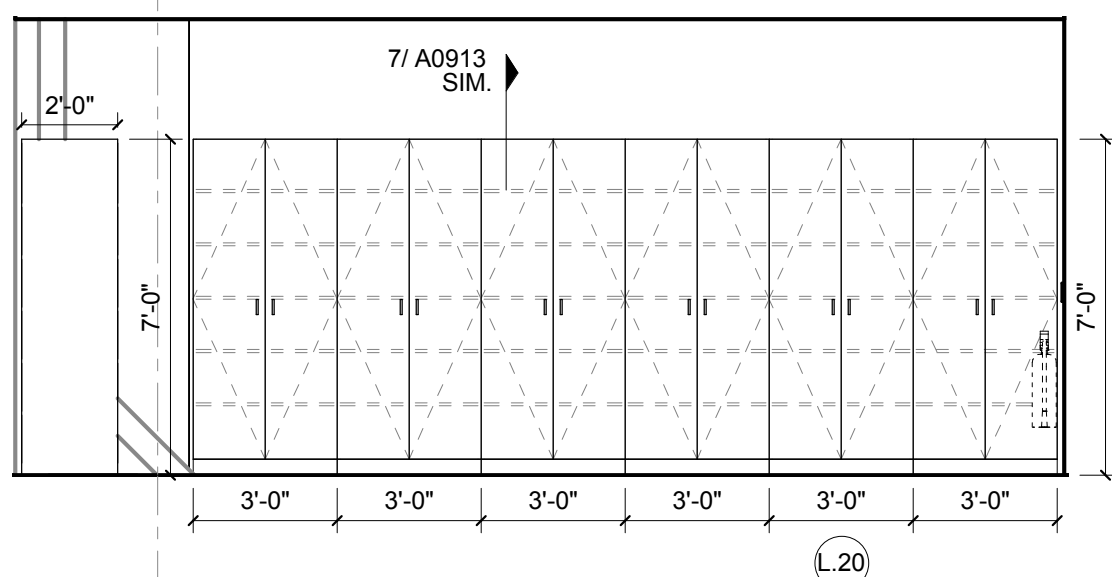
7 L02-N-PHYSICS LAB SOUTH
1/4" = 1'-0"



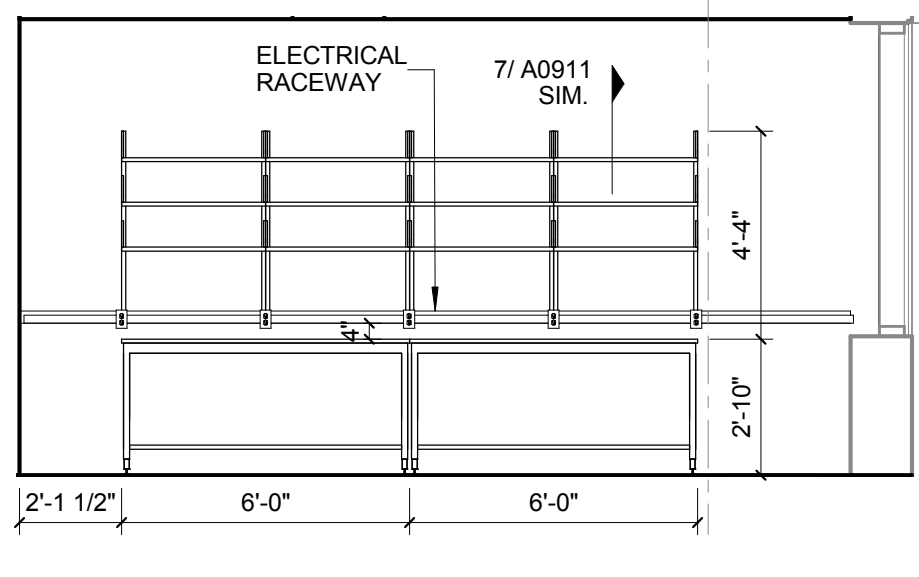
6 L02 SCIN CLASSROOM NORTH
1/4" = 1'-0"



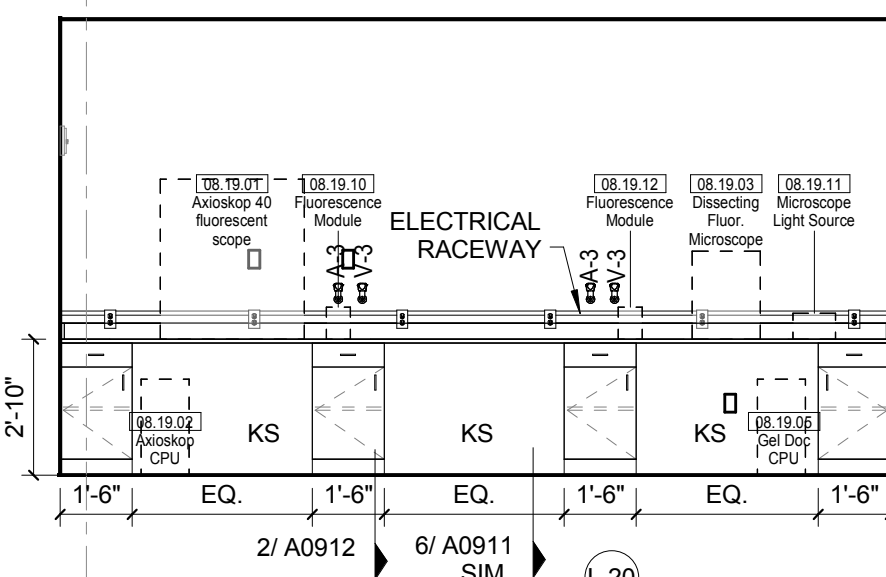
5 L02 SCIN CLASSROOM - SOUTH
1/4" = 1'-0"



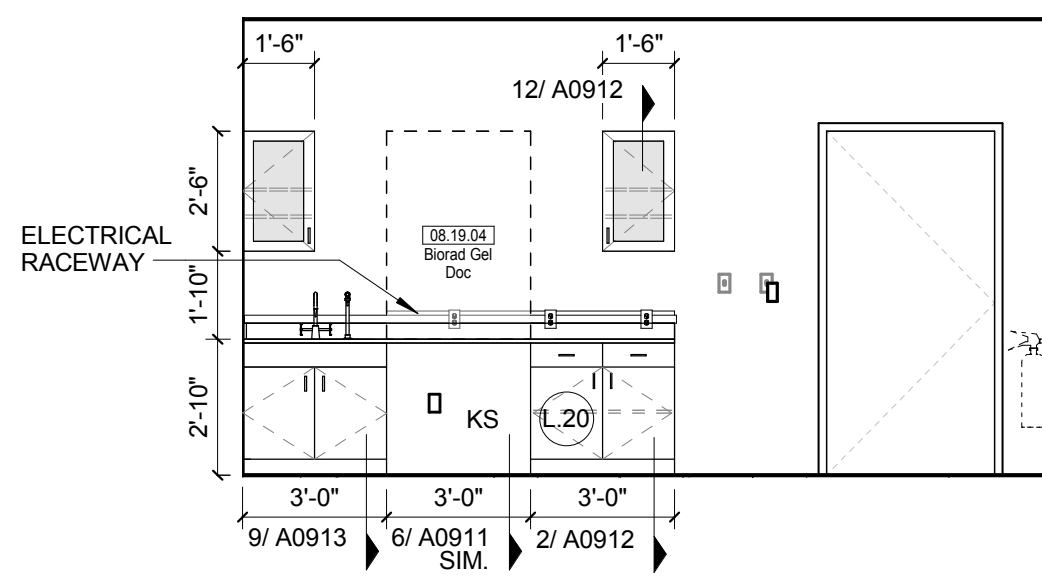
4 L02 LAB STORAGE - SOUTH
1/4" = 1'-0"



3 L02 LAB STORAGE - NORTH
1/4" = 1'-0"



2 L02 GEL DOC MICROSCOPY - NORTH
1/4" = 1'-0"



1 L02 GEL DOC MICROSCOPY - SOUTH
1/4" = 1'-0"

LAB KEYED NOTE LEGEND

- L.1 WRITABLE AND PROJECTABLE SURFACE, DIMENSIONS AS NOTED
- L.2 RECESSED, CEILING MOUNTED PROJECTION SCREEN
- L.3 WALL MOUNTED PROJECTOR ABOVE
- L.4 EMERGENCY SAFETY SHOWER WITH EYEWASH
- L.5 115313 CHEMICAL FUME HOOD W/ STORAGE BELOW. TYPICAL FUME HOOD TO HAVE ELECTRIC AND UTILITIES AS INDICATED.
- L.7 WOOD LAB CASEWORK MICROSCOPE CAB
- L.8 WOOD LAB CASEWORK TALL CABINET WITH OPEN CUBBIES FOR BOOK BAG STORAGE
- L.9 115313 CHEMICAL FUME HOOD - ACCESSIBLE - WITH MOBILE STORAGE BELOW, WHERE SHOWN. TYPICAL FUME HOOD TO HAVE ELECTRIC, AND UTILITIES AS INDICATED.
- L.11 CABS BELOW WHITEBOARD
- L.12 CAMERA FOR SKYPE INTERVIEW
- L.14 GAS CYLINDER STORAGE RACK (CFO), CYLINDERS TO BE "DFO"
- L.15 RECESSED MOTORIZED ROOM DARKENING / BLACKOUT SHADES. USE DOUBLE SHADES AT WEST CLASSROOMS LEVEL 02 AND LECTURE HALL. REFER TO REFLECTED CEILING PLANS
- L.16 LCD MONITOR
- L.18 MOBILE LABORATORY CASEWORK SYSTEM. SEE DETAIL 09/A0911.
- L.19 MOVEABLE WOOD LABORATORY CASEWORK: TABLE WITH MODIFIED EPOXY COUNTERTOP, CABINETS SUSPENDED BELOW AS INDICATED.
- L.20 FIXED WOOD LABORATORY CASEWORK - BASE CABINETS, MODIFIED EPOXY COUNTERTOP, WALL CABINETS AS SHOWN ON ELEVATION
- L.21 SEE CEILING PLAN FOR CEILING MOUNTED UNISTRUT SYSTEM SUPPORTED BY STRUCTURE ABOVE
- L.22 8" DEEP X 6" WIDE TRENCH WITH METAL COVER TO RECEIVE FLOOR FINISH TO MATCH ADJACENT FLOOR
- L.23 FLOOR BOX FOR ELECTRICAL & DATA
- L.24 09/6668 DRY ERASE FINISH (A/C-1)
- L.25 PROVIDE BLOCKING FOR FIRE EXTINGUISHER, MOUNTING HEIGHT - 3'-0" TO TOP OF EXTINGUISHER. FIRE EXTINGUISHER & ITS BRACKET BY OWNER.
- L.26 POINT EXHAUST (SNORKEL) FOR SOLDERING. SEE DETAIL 5/ A0913.

LAB UTILITY LEGEND

- CW WATER COLD WATER FAUCET, DECK MOUNTED GOOSENECK WITH SERRATED NOZZLE, VACUUM BREAKER
- W-1 WATER GENERAL MIXING FAUCET, DECK MOUNTED WITH VACUUM BREAKER, SERRATED NOZZLE.
- DI WATER DI WATER FAUCET DECK MOUNTED
- PWS WATER PROCESS COLD WATER SUPPLY
- PWR WATER PROCESS COLD WATER RETURN
- EW WATER EYEWASH, DECK MOUNTED, AUTOFLOW SWING-DOWN
- DH WATER DRENCH HOSE
- G GAS FUME HOOD CONTROL
- V VAC FUME HOOD CONTROL
- V-3 VAC WALL MOUNTED, SINGLE SERRATED OUTLET
- V-1 VAC TURRET BASE, SINGLE SERRATED OUTLET
- V-4 VAC OUTLET FOR BIOSAFETY CABINET CONNECTIONS
- V-5 VAC QUICK DISCONNECT FOR OVERHEAD SERVICE CARRIER
- A AIR FUME HOOD CONTROL
- A-1 AIR TURRET BASE, SINGLE SERRATED OUTLET
- A-3 AIR WALL MOUNTED, SINGLE SERRATED OUTLET
- A-4 AIR OUTLET FOR BIOSAFETY CABINET CONNECTIONS
- A-5 AIR QUICK DISCONNECT FOR OVERHEAD SERVICE CARRIER
- N NITROGEN FUMEHOOD CONTROL
- E ELEC. DUPLEX OUTLET (GFI) ON FUME HOOD
- E-1 ELEC. COUNTERTOP MOUNTED PEDESTAL, (1) DUPLEX ELECTRICAL OUTLET.
- E-2 ELEC. COUNTERTOP MOUNTED PEDESTAL, (2) DUPLEX ELECTRICAL OUTLET.
- E-3 ELEC. WALL MOUNTED, (1) DUPLEX ELECTRICAL OUTLET.
- E-5 ELEC. DUPLEX ELECTRICAL OUTLET ON TABLE APRON
- SERVICE CARRIER
- D DATA DATA OUTLET
- D-1 DATA COUNTERTOP MOUNTED PEDESTAL, (2) DATA OUTLETS
- D-5 DATA DATA OUTLET ON OVERHEAD SERVICE CARRIER
- D-6 DATA DATA OUTLET ON TABLE APRON
- C S CLIP SINK LIPPED MODIFIED EPOXY CLIP SINK, 9"LX3"W OVAL (DROP-IN).
- S-1 SINK LIPPED MODIFIED EPOXY SINK, 25"LX15"WX10"D (DROP-IN).
- S-2 SINK LIPPED MODIFIED EPOXY ADA SINK 25"LX15"WX5"D (DROP-IN).
- S-3 SINK STAINLESS STEEL SINK 25"LX15"WX10"D (DROP-IN).
- S-4 SINK STAINLESS STEEL ADA SINK 25"LX15"WX5"D (DROP-IN).
- S-5 SINK LIPPED MODIFIED EPOXY ADA SINK 18"LX15"WX5"D (DROP-IN).
- S-6 SINK LIPPED MODIFIED EPOXY SINK, 36"LX15"WX10"D (DROP-IN).
- OSC OVERHEAD SERVICE CARRIER. SEE DETAIL 10 / A0913.
- PTD PAPER TOWEL DISPENSER

CHEMICAL FUME HOOD LEGEND

- CFH-4 4'-0" WIDE CHEMICAL FUME HOOD
- CFH-6 6'-0" WIDE CHEMICAL FUME HOOD

LAB GENERAL NOTES

- ALL DIMENSIONS ARE TO GWB FACE PARTITION OR COLUMN CENTERLINE UNLESS NOTED.
- OWNER FURNISHED OWNER INSTALLED (OFOI) ITEMS ARE SHOWN DASHED FOR REFERENCE ONLY. COORDINATE SIZE AND INSTALLATION REQUIREMENTS WITH OWNER'S REPRESENTATIVE.
- CENTER ALL DRYING RACKS WITH DRIP STOP TROUGHS ABOUT CENTERLINE OF SINKS, U.N.O.
- ALL APRONS AT OPEN KNEE SPACE TO BE 4" U.N.O. PROVIDE APRON OF SOLID WOOD WITH EASED BOTTOM EDGE. FINISH TO MATCH VENEER SPECIES. MAINTAIN MINIMUM 2" CLEAR ABOVE FLOOR FINISH.
- CENTER ALL COUNTERTOP MOUNTED UTILITY OUTLETS ON CENTER OF CASEWORK U.N.O.
- ALL SURFACE MOUNTED RACEWAY TO HAVE OUTLETS AT 2'-0" O.C. AND SHALL BE MOUNTED DIRECTLY ABOVE BACKSPLASH U.N.O.
- ALL BACKSPLASHES TO BE 4" HIGH U.N.O.
- DASHED LINES ON ELEVATIONS INDICATED ADJUSTABLE SHELVING INSIDE CASEWORK.
- PROVIDE FINISHED BACK PANEL AT KNEE SPACES BELOW ALL FUMEHOODS, TYPICAL, SIMILAR TO DETAIL.
- PROVIDE FINISHED BACK PANEL AT ALL KNEE SPACES, TYPICAL.
- PROVIDE LOCK AND KEY WHERE A CIRCLE NEXT TO DRAWER OR DOOR HANDLE IS SHOWN OR WHERE NOTED.
- REFER SHEETS A0914 FOR LABORATORY CASEWORK / MILLWORK DETAILS.
- FOR TYPICAL MOUNTING HEIGHTS REF. 1/A0911
- ALL CASEWORK TO BE WOOD U.N.O.
- ALL CASEWORK IS LABORATORY CASEWORK UNLESS NOTED AS MILLWORK OR O.F.O.I. SEE DIVISION 12-3555 - LABORATORY CASEWORK FOR SPECIFICATIONS.
- ALL EQUIPMENT ITEMS HAVE A EQUIPMENT TAG - XXX-XXX. SEE SHEETS A1104 FOR EQUIPMENT SCHEDULES.
- PROVIDE PAPER TOWEL DISPENSER (PTD) AT EACH SINK LOCATION.



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PART OF
EXHIBIT-A

CONFORMED SET

01 JUL 2016

ISSUED FOR CONSTRUCTION (BP3) 15 MAR 2016

No. Description Date

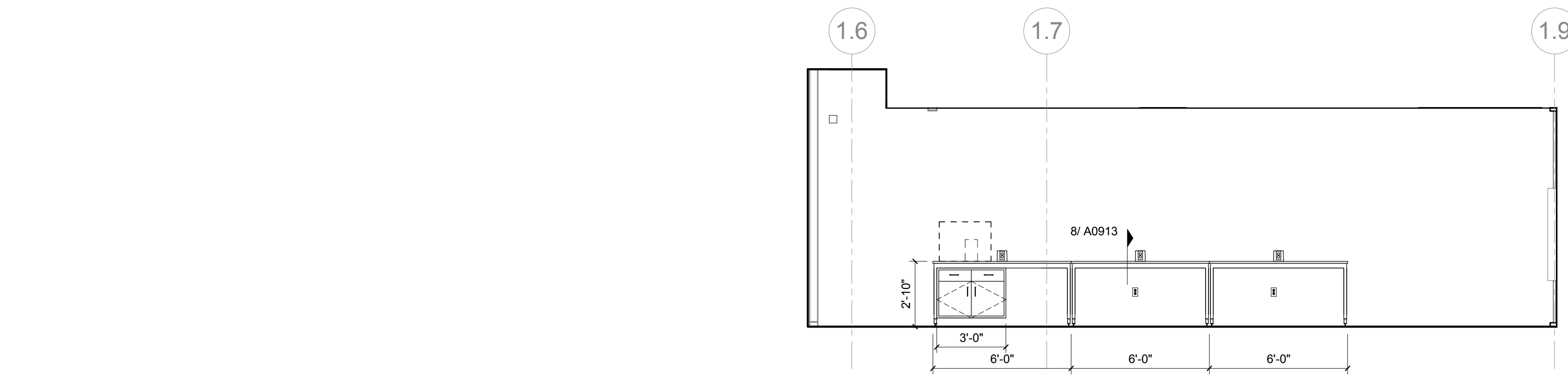
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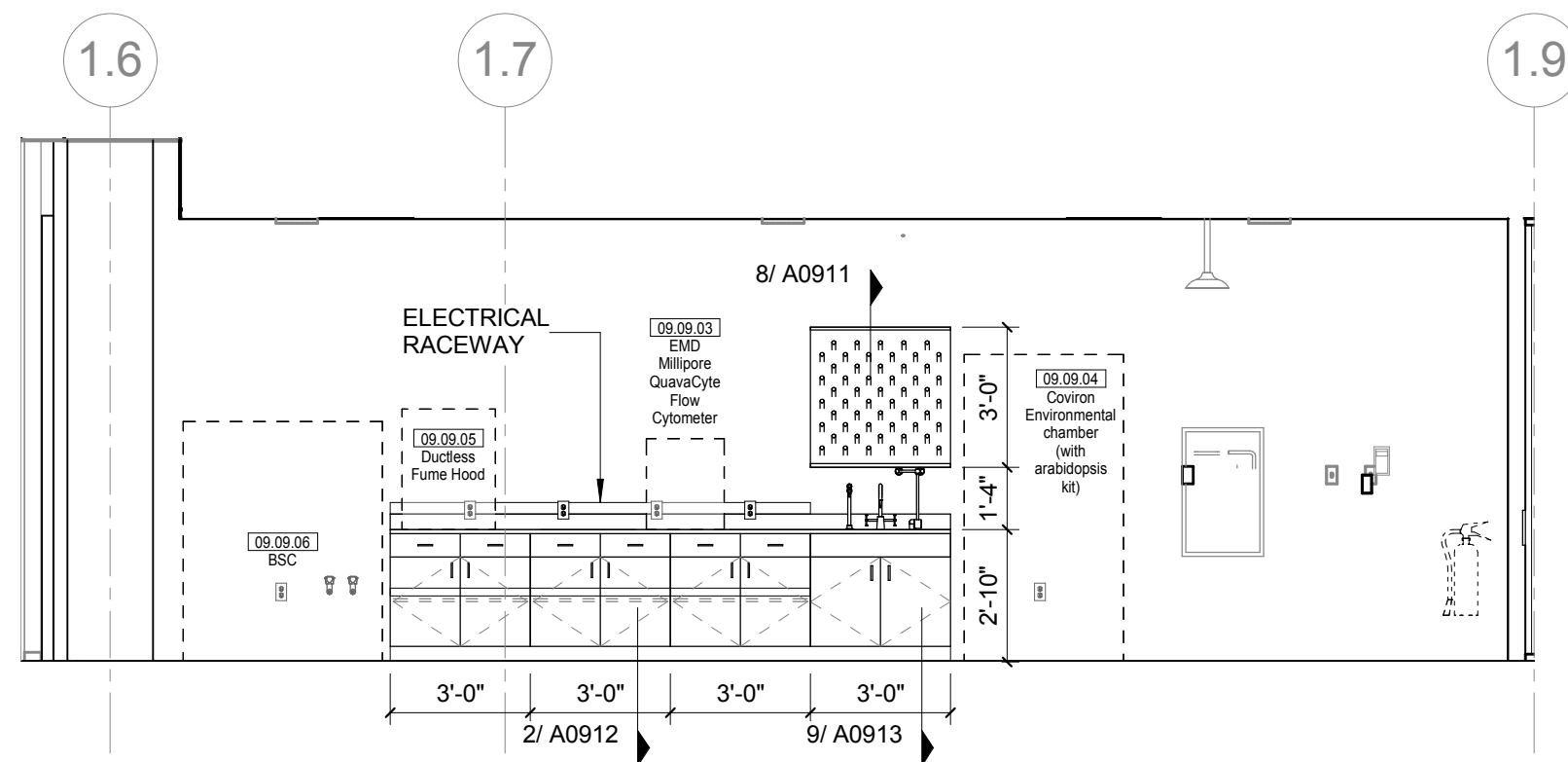
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A0613

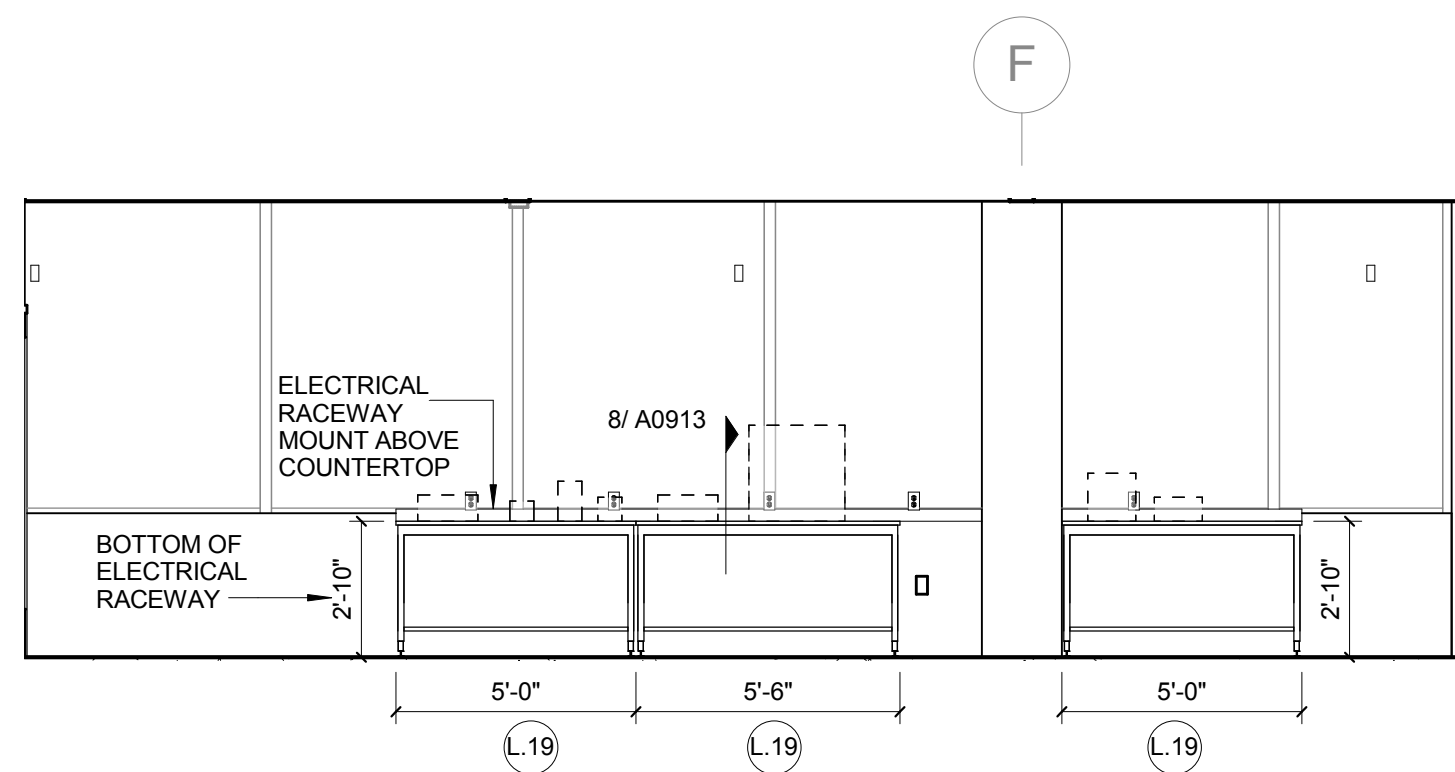
© Cannon Design 2015



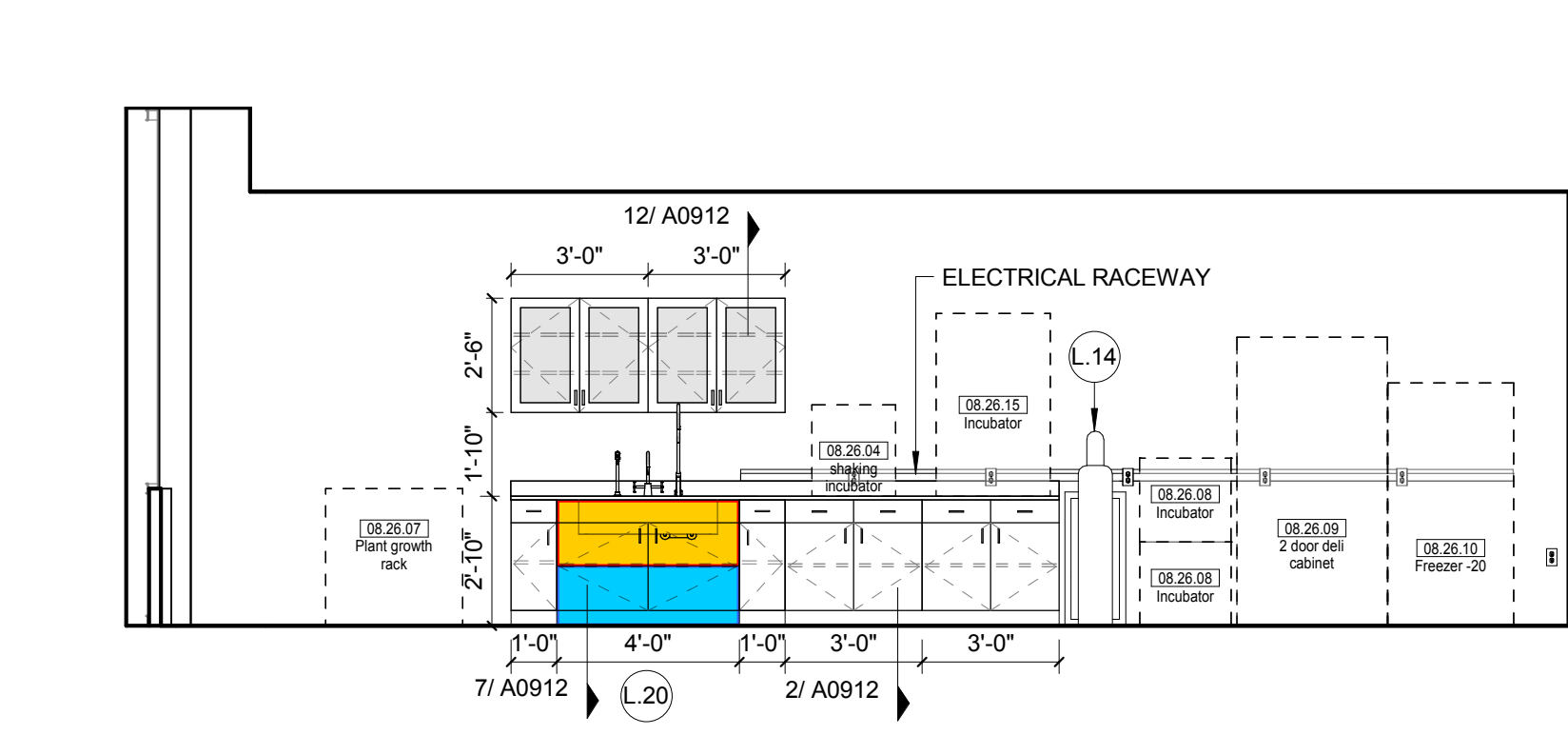
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1/4" = 1'-0"



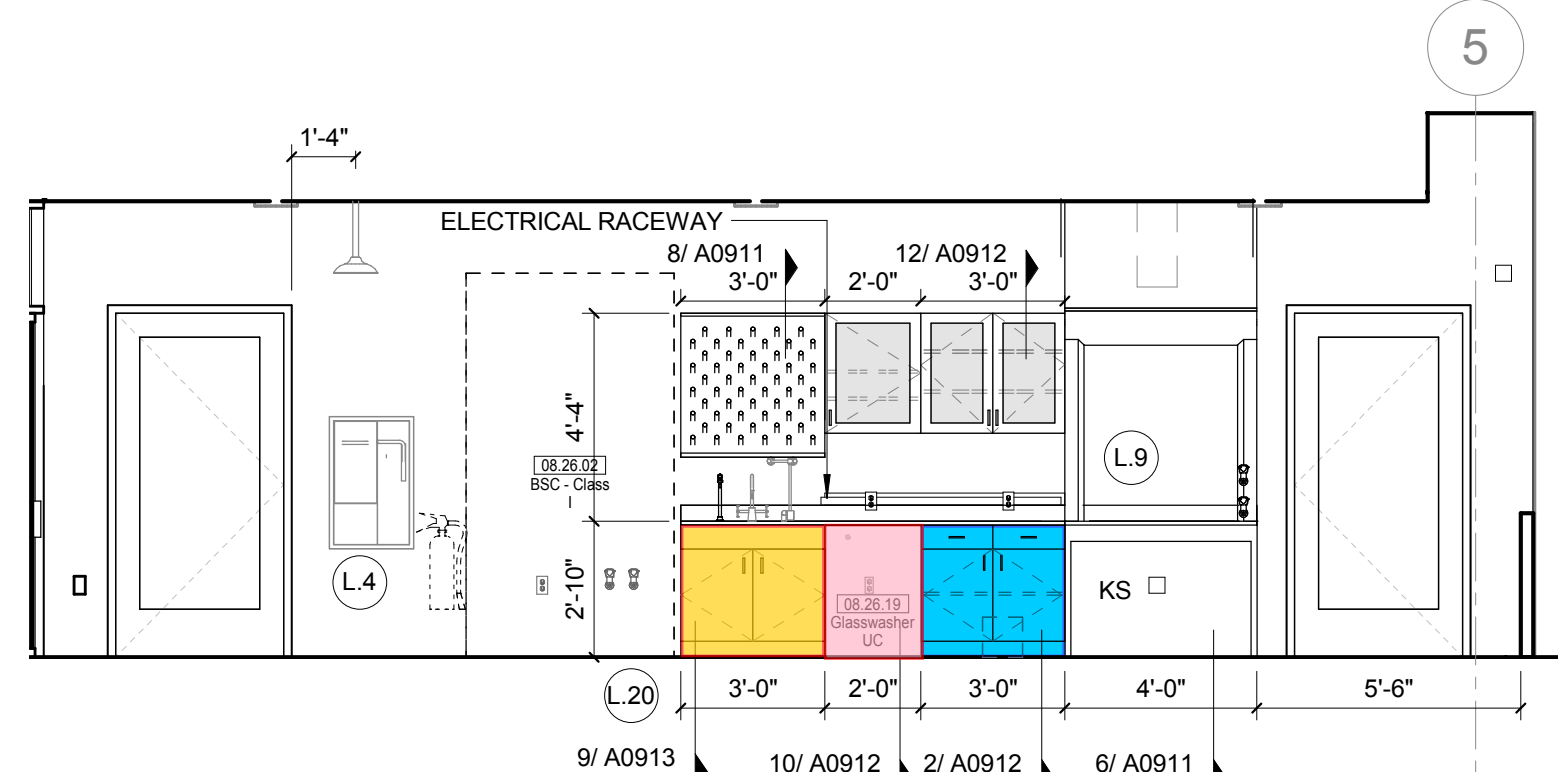
16 L02 OPEN RESEARCH LAB - NORTH
1/4" = 1'-0"



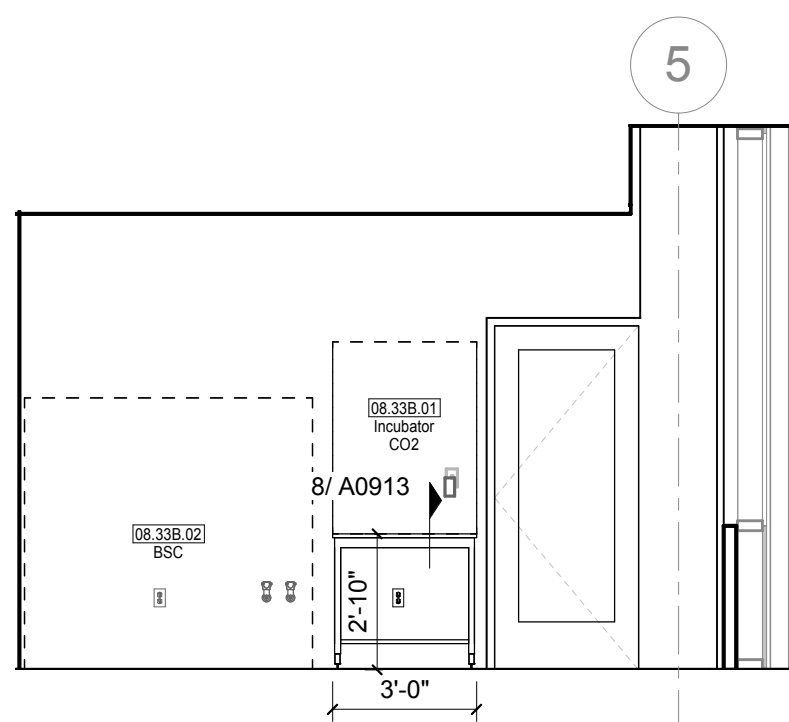
11 L02W CELL BIO AND PHYSICS RESEARCH - WEST
1/4" = 1'-0" REF 1 / A0204



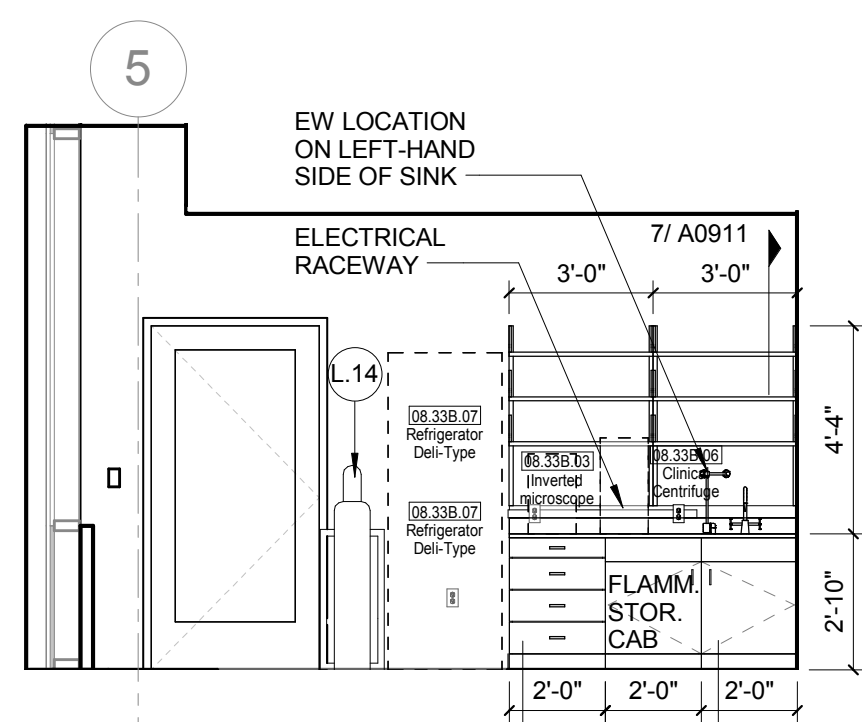
10 L02 CELL BIO AND PHYS RESEARCH - NORTH
1/4" = 1'-0"



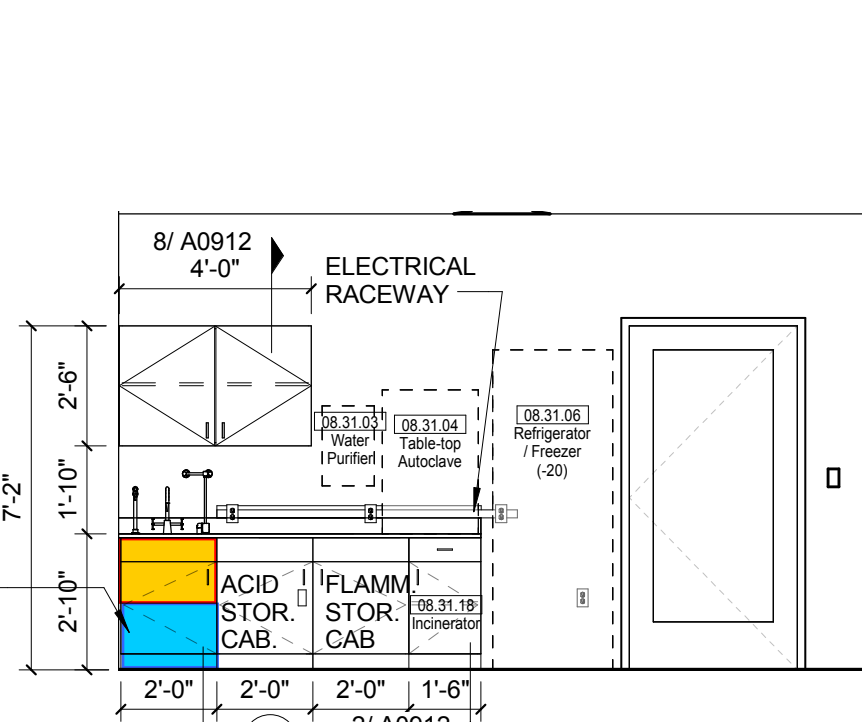
9 L02 CELL BIO / PHYSIO RESEARCH - SOUTH
1/4" = 1'-0"



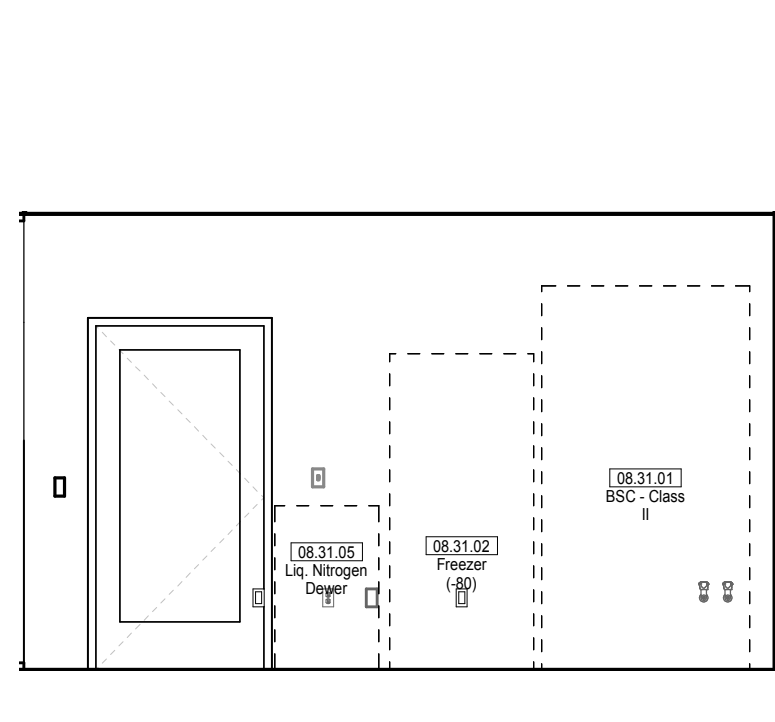
8 L02 TISSUE CULTURE - SOUTH
1/4" = 1'-0"



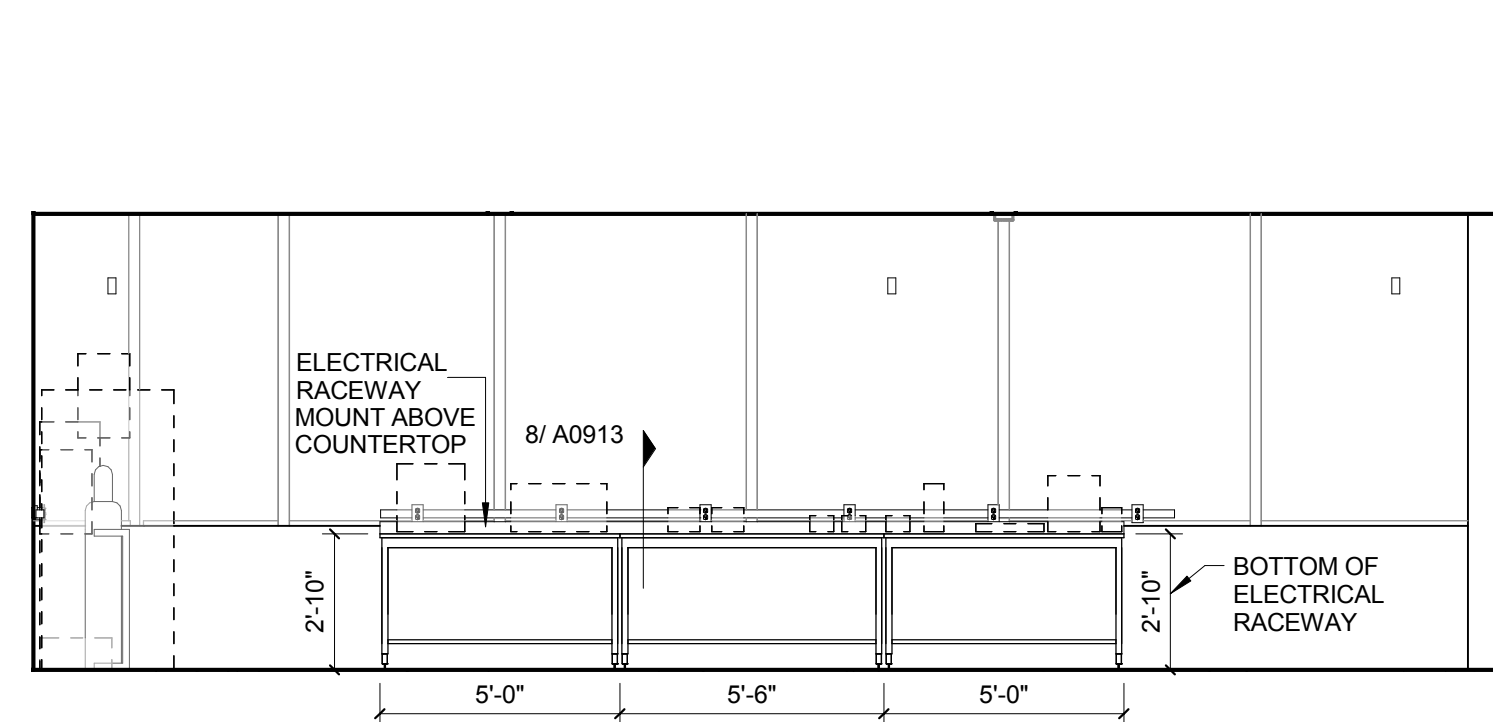
7 L02 TISSUE CULTURE - NORTH
1/4" = 1'-0"



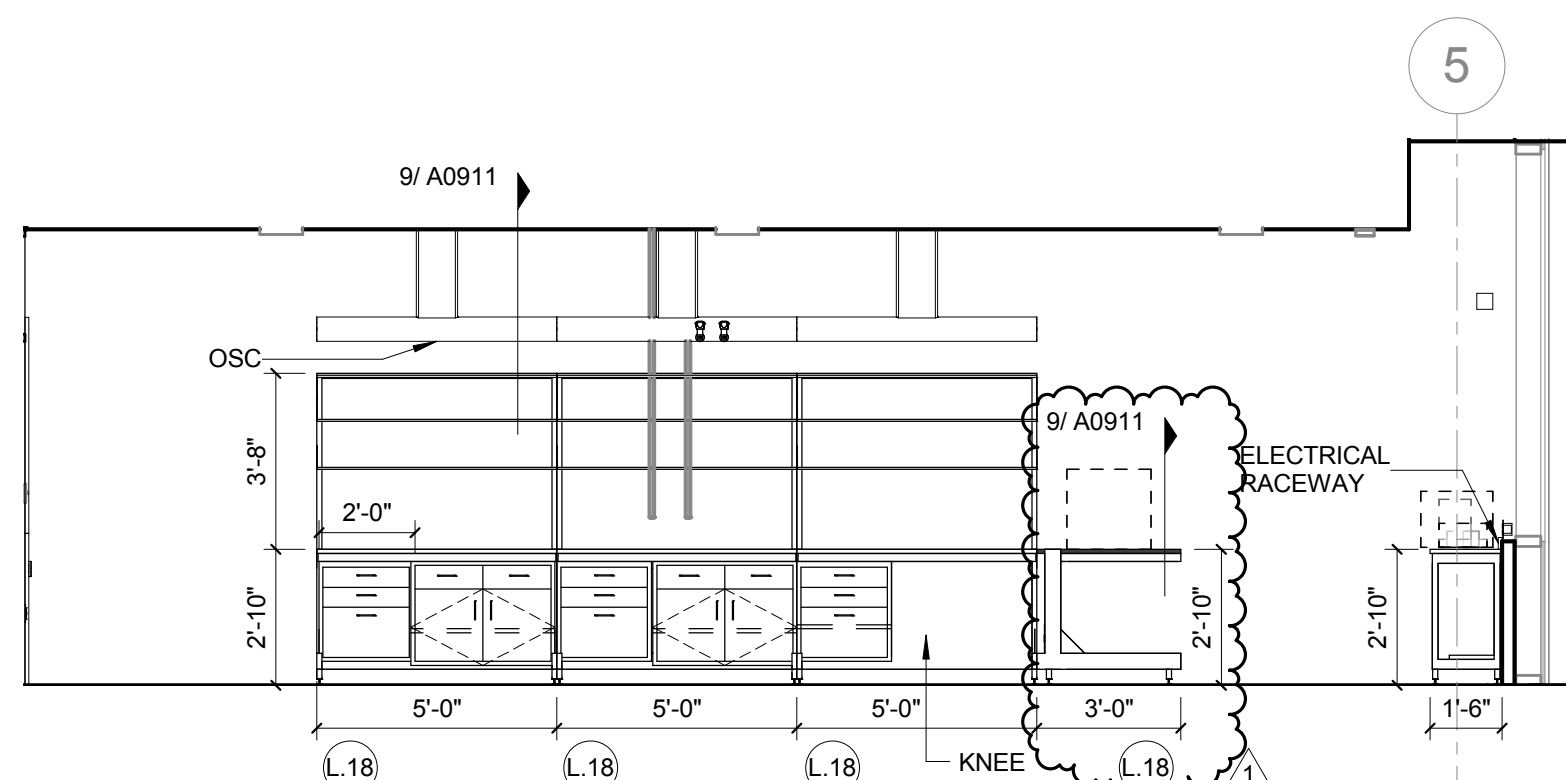
6 L02 MICROBIO PREP AND TC - NORTH
1/4" = 1'-0"



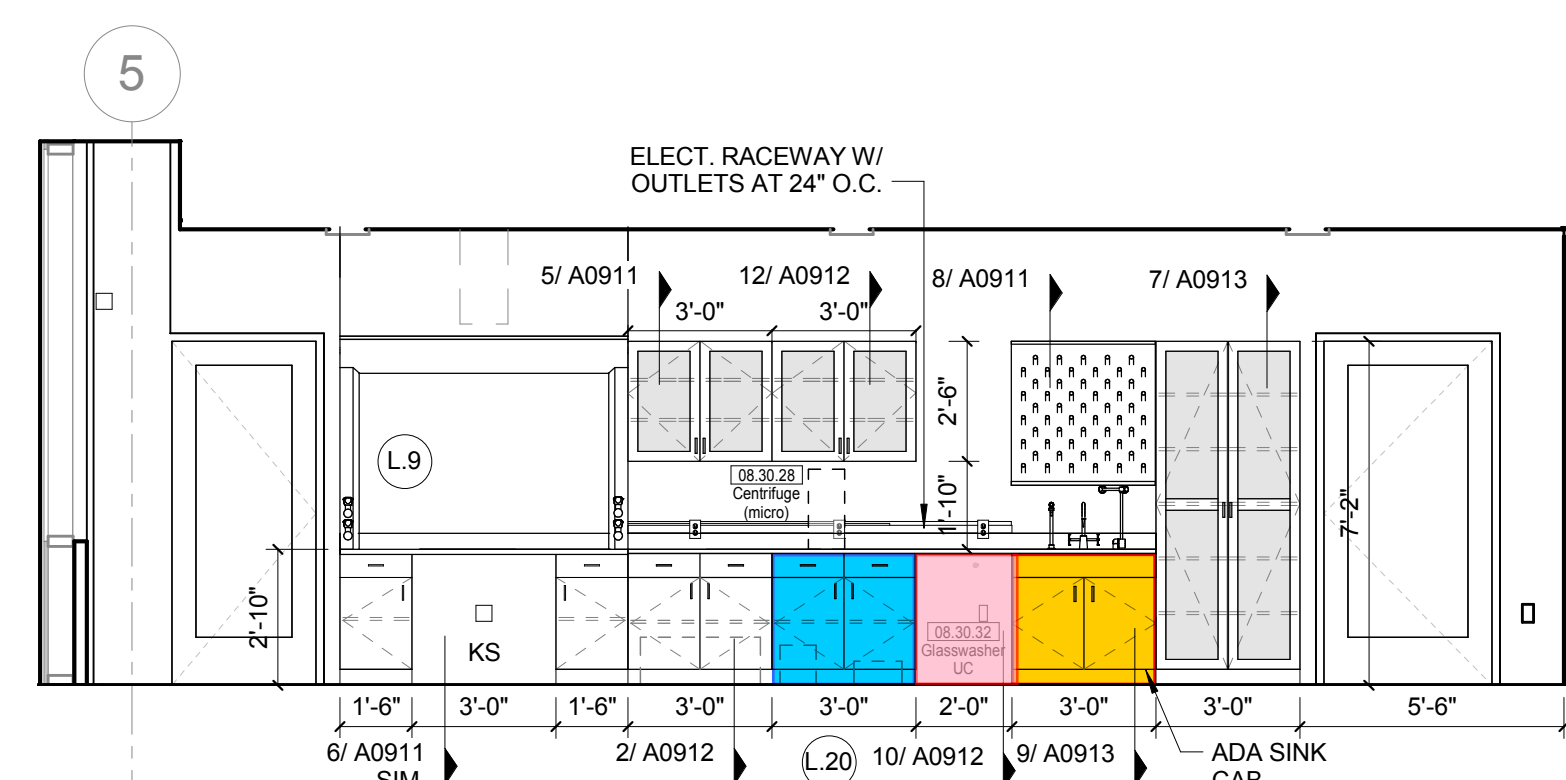
5 L02 MICROBIO PREP AND TC - SOUTH
1/4" = 1'-0"



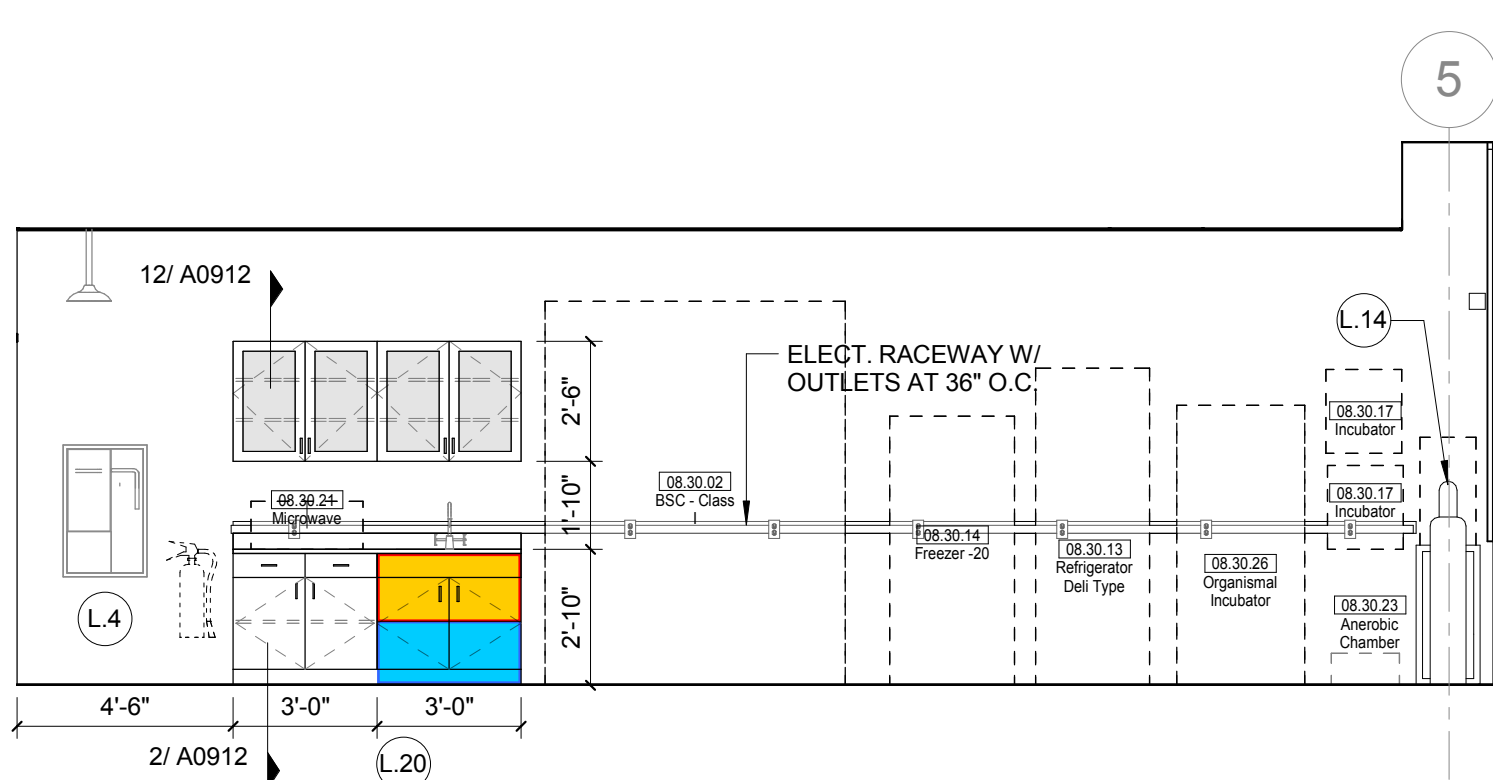
4 L02W MICRO / PLANT RESEARCH - WEST
1/4" = 1'-0" REF 1 / A0204



3 L02W MICRO / PLANT BIO RESEARCH
1/4" = 1'-0"



2 L02 MICRO / PLANT BIOLOGY RESEARCH - NORTH
1/4" = 1'-0"



1 L02 MICRO / PLANT BIO RESEARCH - SOUTH
1/4" = 1'-0"

LAB KEYED NOTE LEGEND

- L.1 WRITABLE AND PROJECTABLE SURFACE, DIMENSIONS AS NOTED
- L.2 RECESSED, CEILING MOUNTED PROJECTION SCREEN
- L.3 WALL MOUNTED PROJECTOR ABOVE
- L.4 EMERGENCY SAFETY SHOWER WITH EYEWASH
- L.5 115313 CHEMICAL FUME HOOD W/ STORAGE BELOW. TYPICAL FUME HOOD TO HAVE ELECTRIC AND UTILITIES AS INDICATED.
- L.6 WOOD LAB CASEWORK MICROSCOPE CAB
- L.7 WOOD LAB CASEWORK TALL CABINET WITH OPEN CUBBIES FOR BOOK BAG STORAGE.
- L.8 115313 CHEMICAL FUME HOOD - ACCESSIBLE - WITH MOBILE STORAGE BELOW, WHERE SHOWN. TYPICAL FUME HOOD TO HAVE ELECTRIC, AND UTILITIES AS INDICATED.
- L.9 CABS BELOW WHITEBOARD
- L.10 CAMERA FOR SKYPE INTERVIEW
- L.11 GAS CYLINDER STORAGE RACK (CFCI), CYLINDERS TO BE "OF OR"
- L.12 RECESSED MOTORIZED ROOM DARKENING / BLACKOUT SHADES. USE DOUBLE SHADES AT WEST CLASSROOMS LEVEL 02 AND LECTURE HALL. REFER TO REFLECTED CEILING PLANS
- L.13 LCD MONITOR
- L.14 MOBILE LABORATORY CASEWORK SYSTEM. SEE DETAIL 09/A0911.
- L.15 MOVEABLE WOOD LABORATORY CASEWORK: TABLE WITH MODIFIED EPOXY COUNTERTOP, CABINETS SUSPENDED BELOW AS INDICATED.
- L.20 FIXED WOOD LABORATORY CASEWORK: BASE CABINETS, MODIFIED EPOXY COUNTERTOP, WALL CABINETS AS SHOWN ON ELEVATION
- L.21 SEE CEILING PLAN FOR CEILING MOUNTED UNISTRUT SYSTEM SUPPORTED BY STRUCTURE ABOVE
- L.22 8" DEEP X 6" WIDE TRENCH WITH METAL COVER TO RECEIVE FLOOR FINISH TO MATCH ADJACENT FLOOR
- L.23 FLOOR BOX FOR ELECTRICAL & DATA
- L.24 09 6666 DRY ERASE FINISH (AWC-1)
- L.25 PROVIDE BLOCKING FOR FIRE EXTINGUISHER, MOUNTING HEIGHT - 3'-0" TO TOP OF EXTINGUISHER, FIRE EXTINGUISHER & ITS BRACKET BY OWNER.
- L.26 POINT EXHAUST (SNORKEL) FOR SOLDERING. SEE DETAIL 5/ A0913.

LAB UTILITY LEGEND

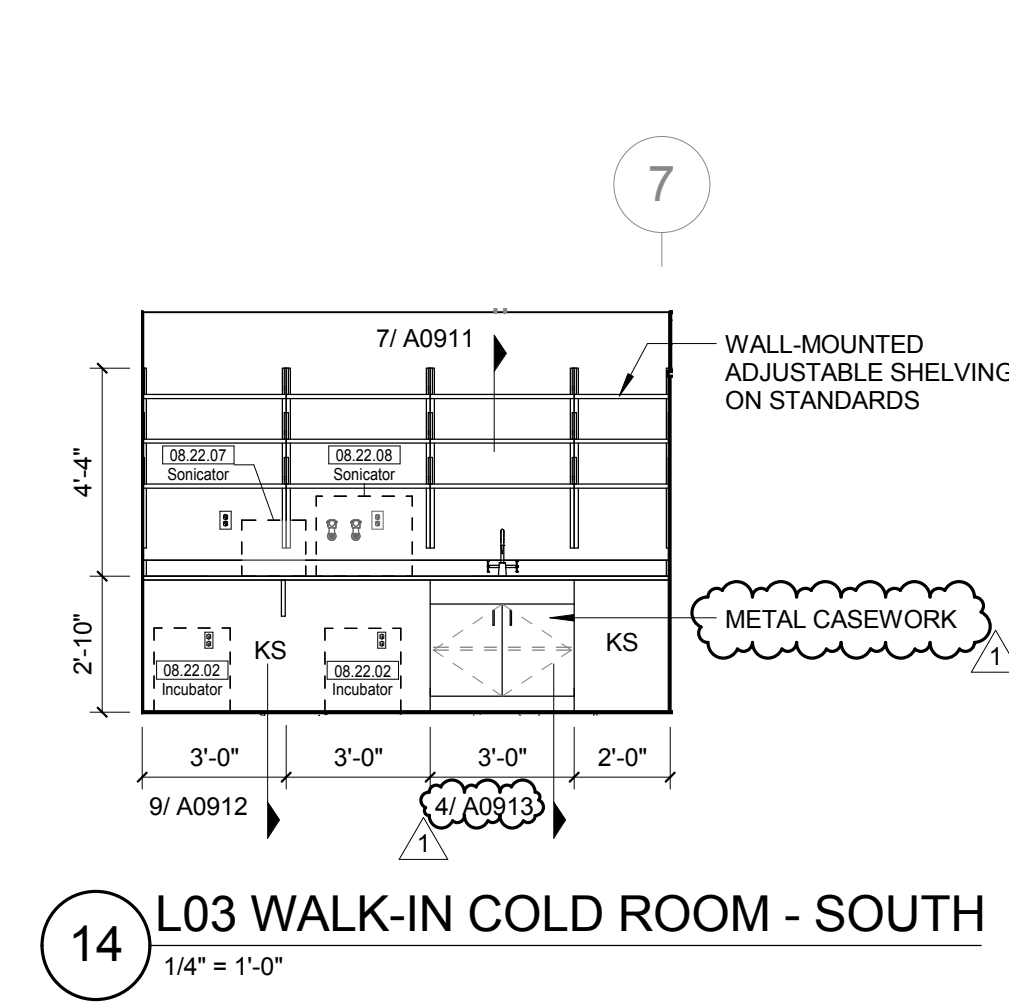
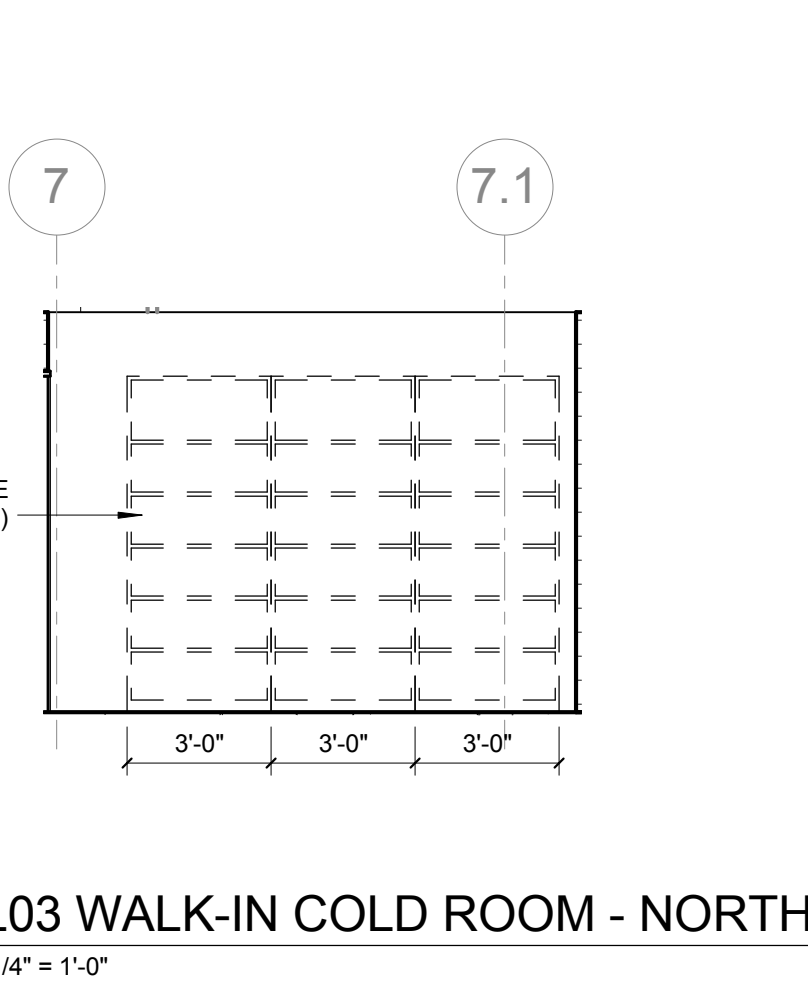
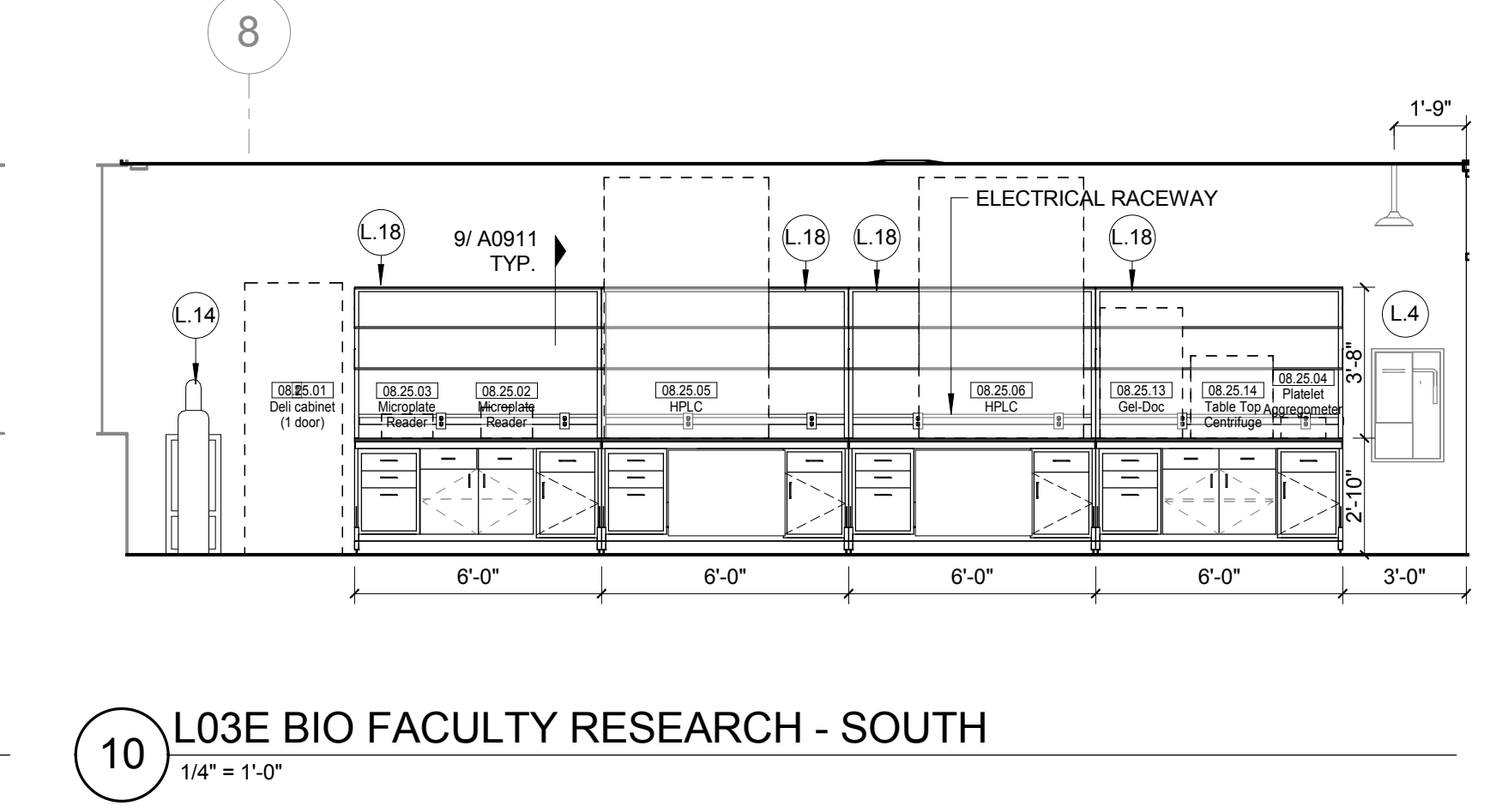
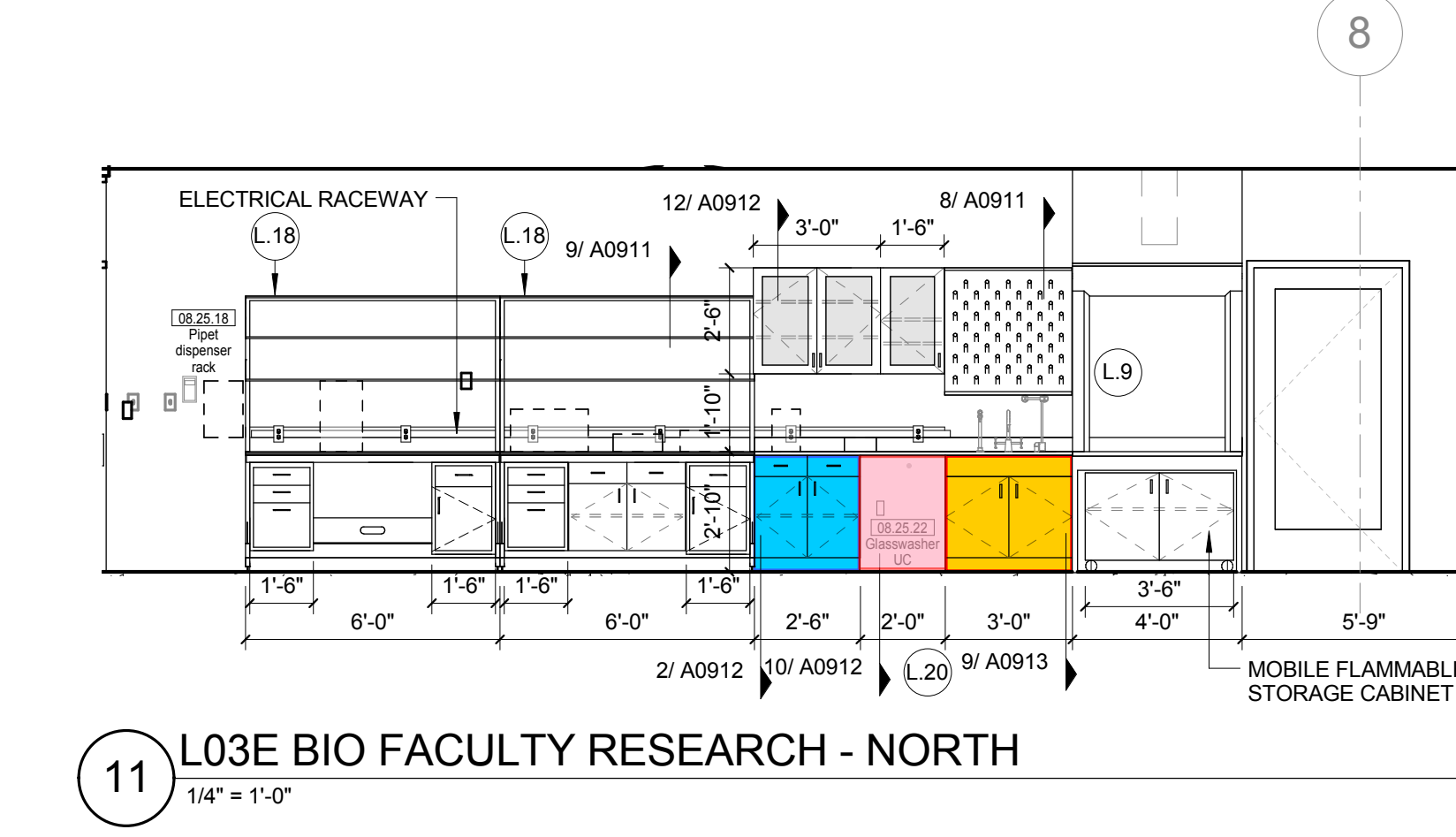
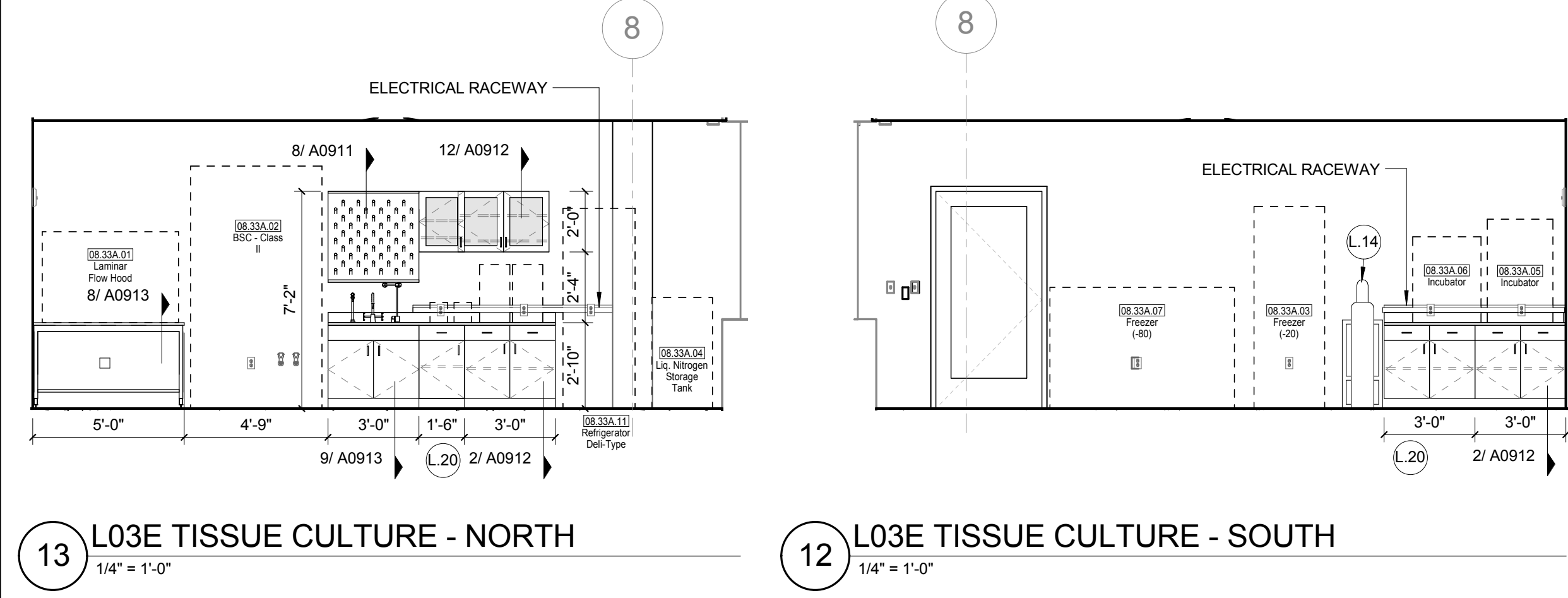
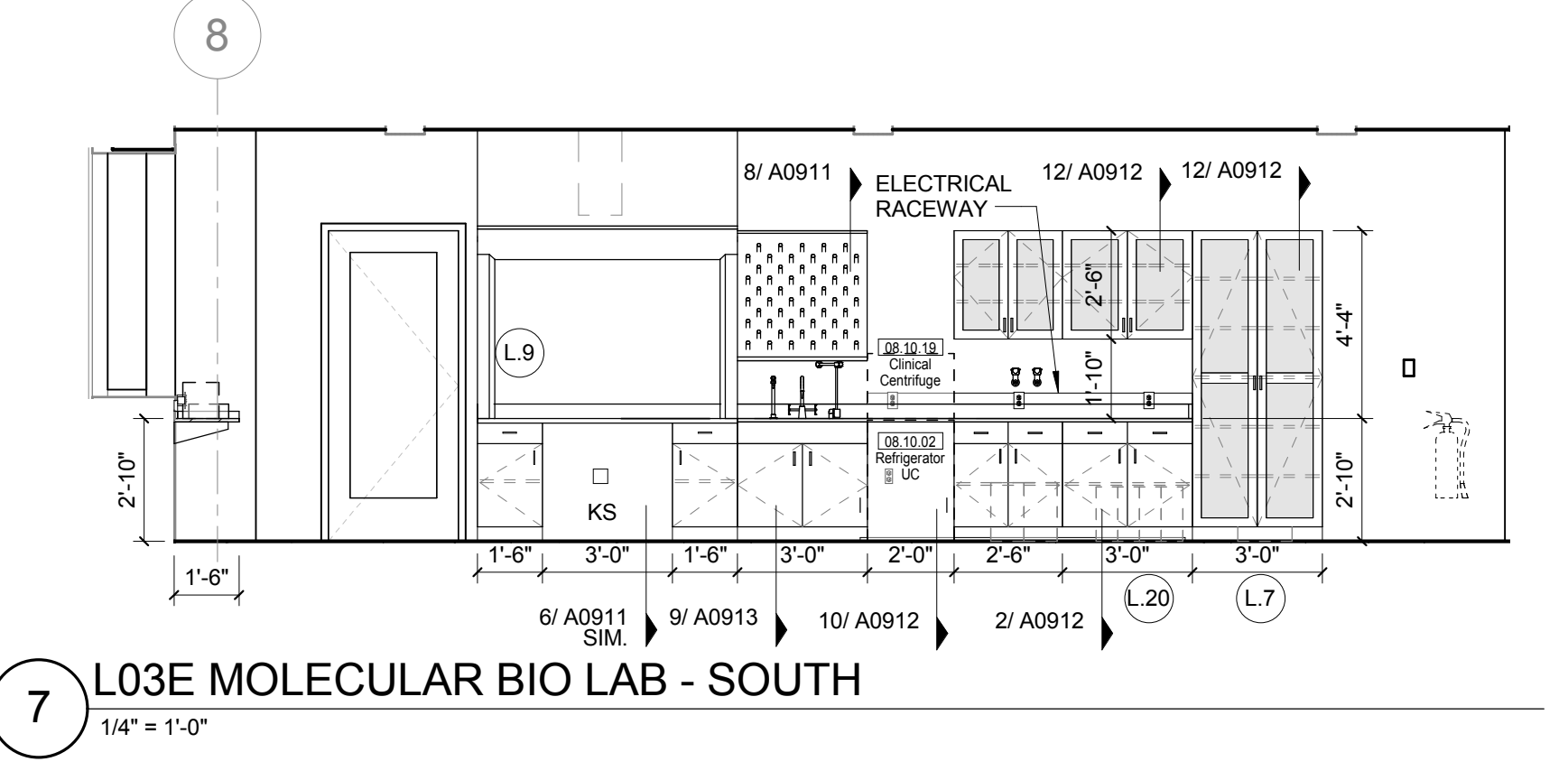
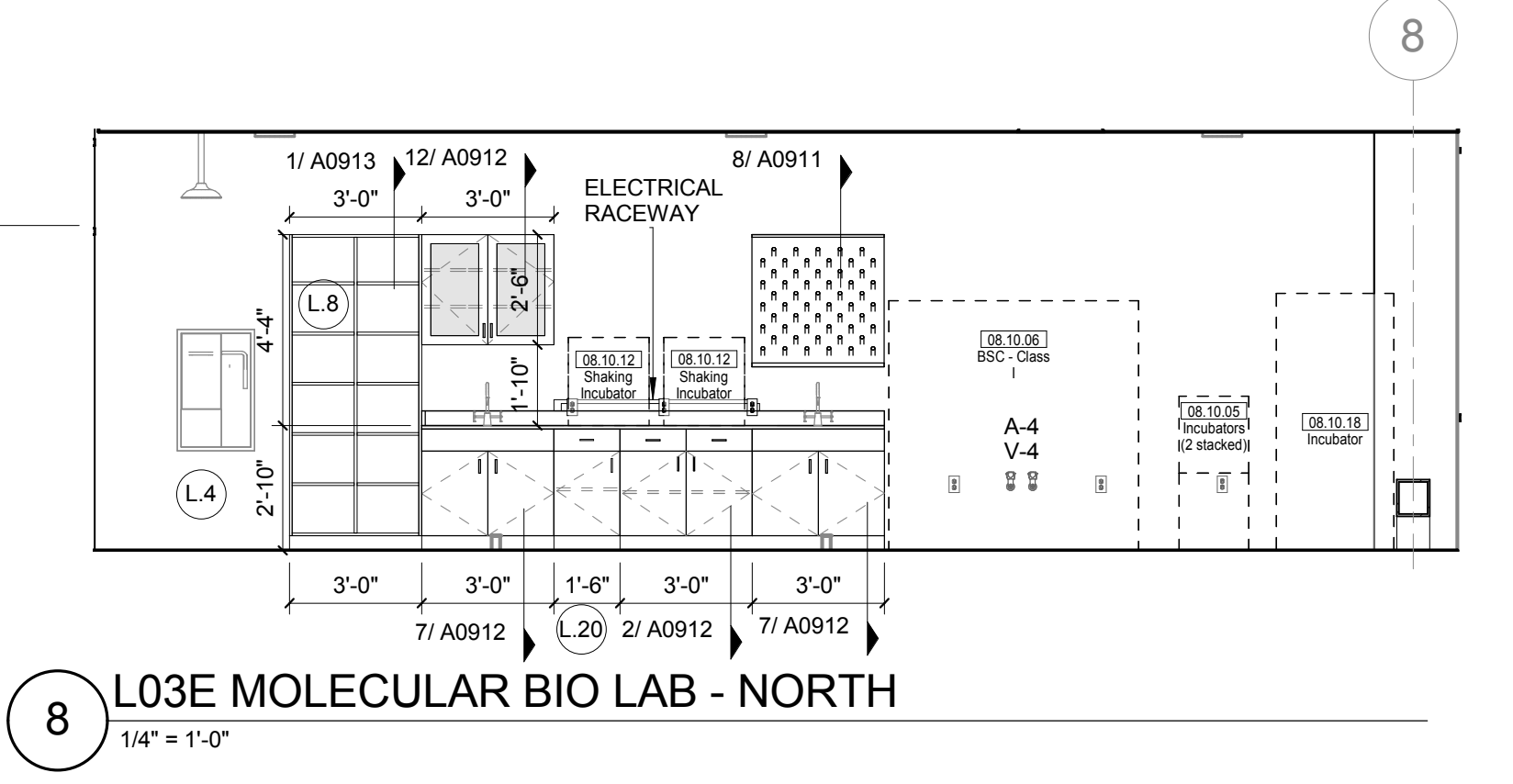
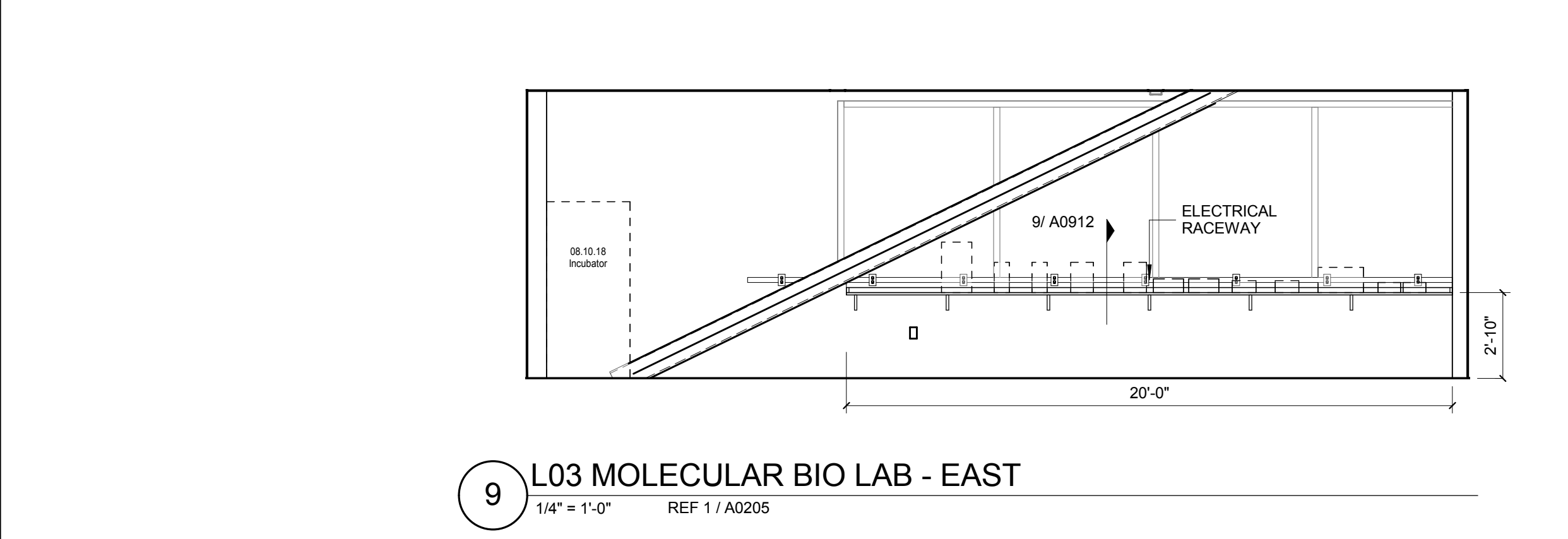
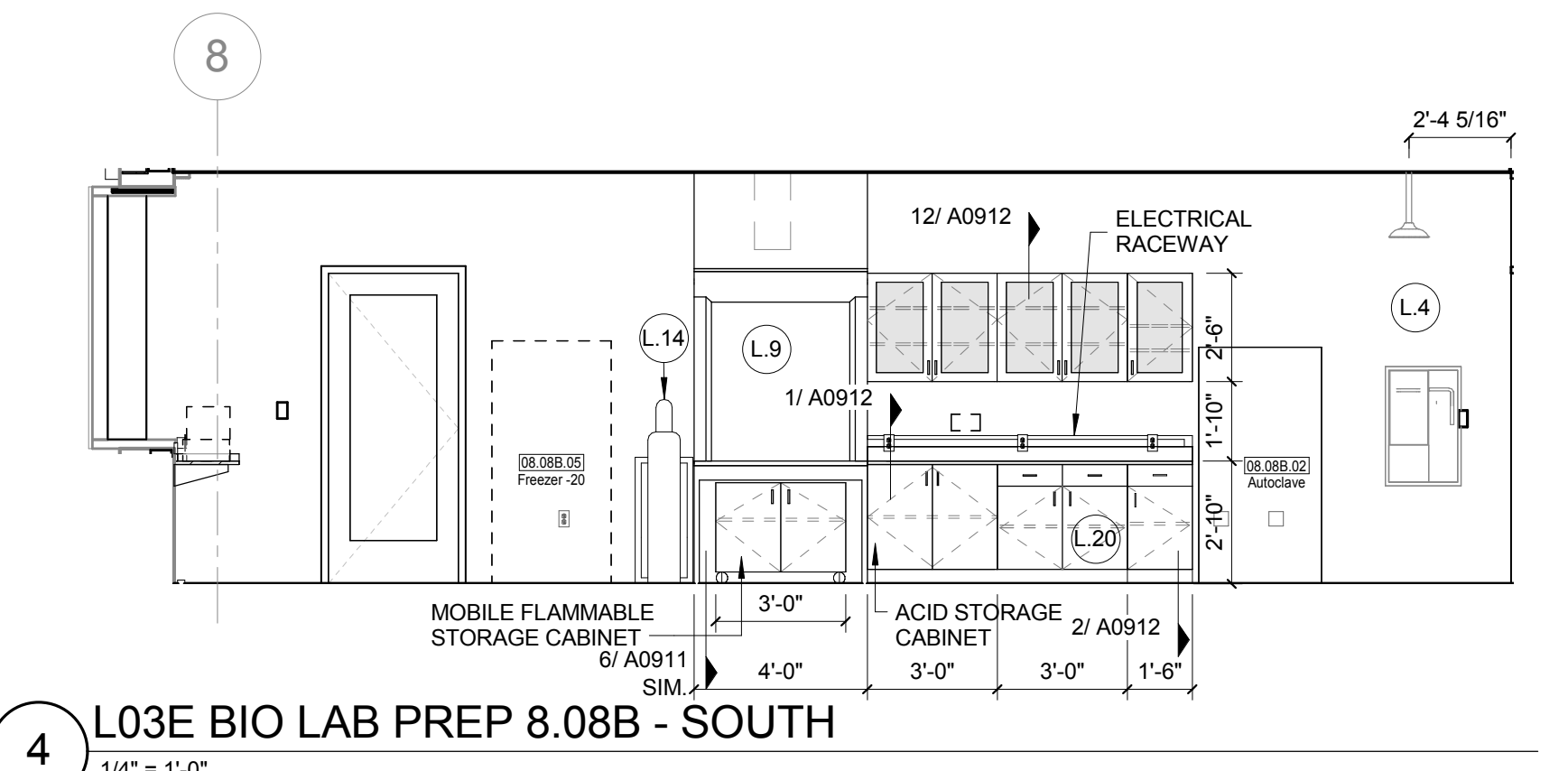
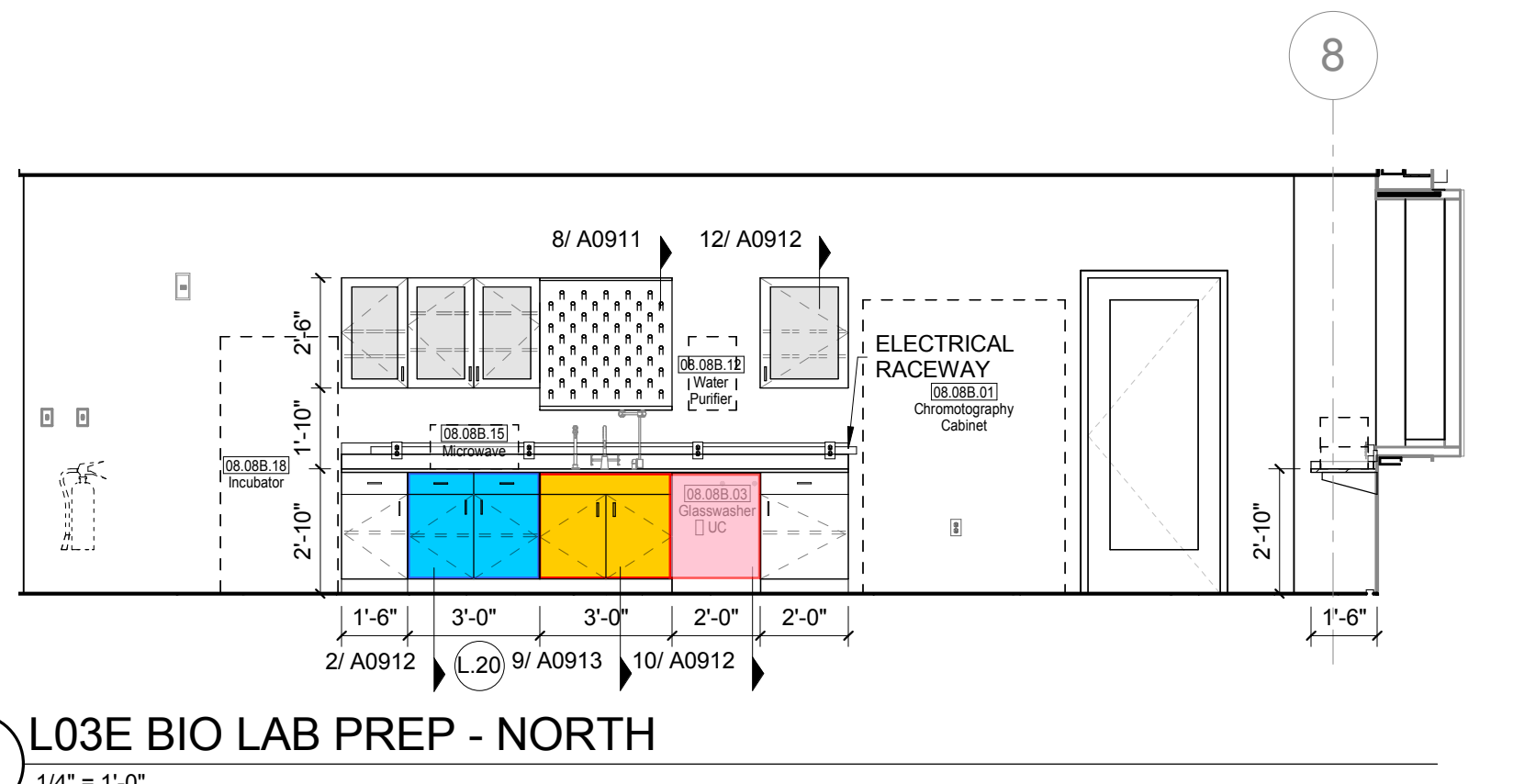
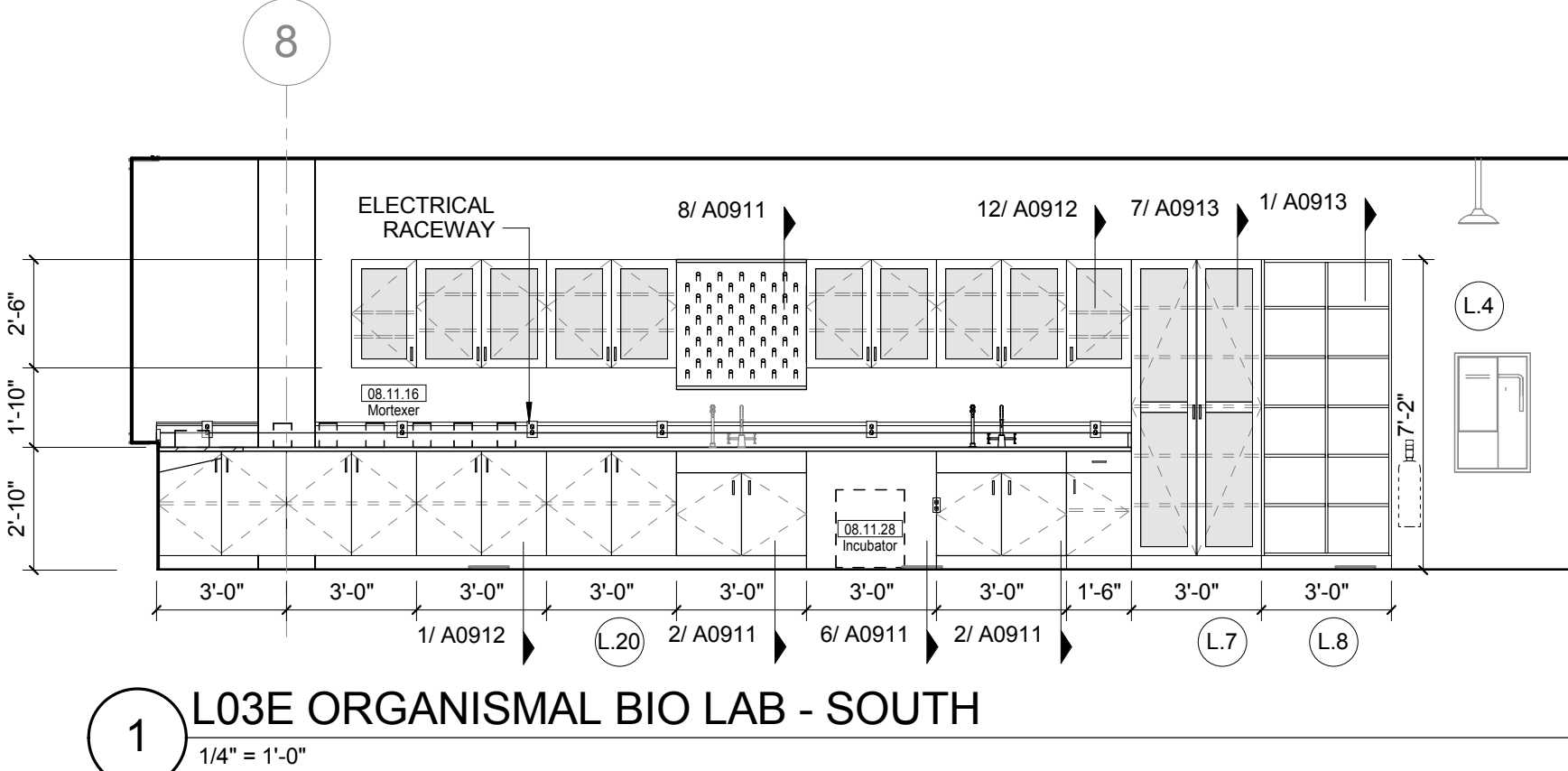
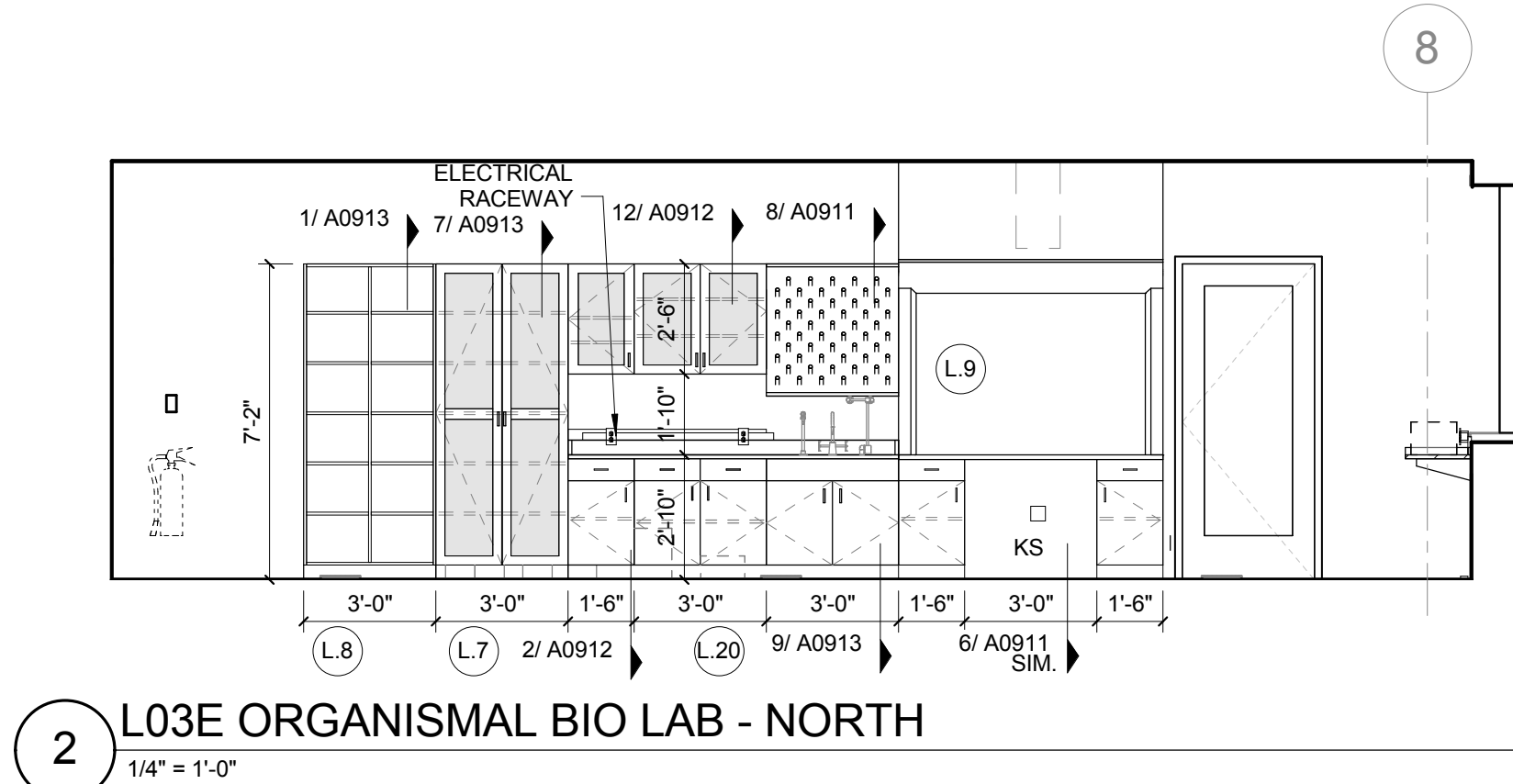
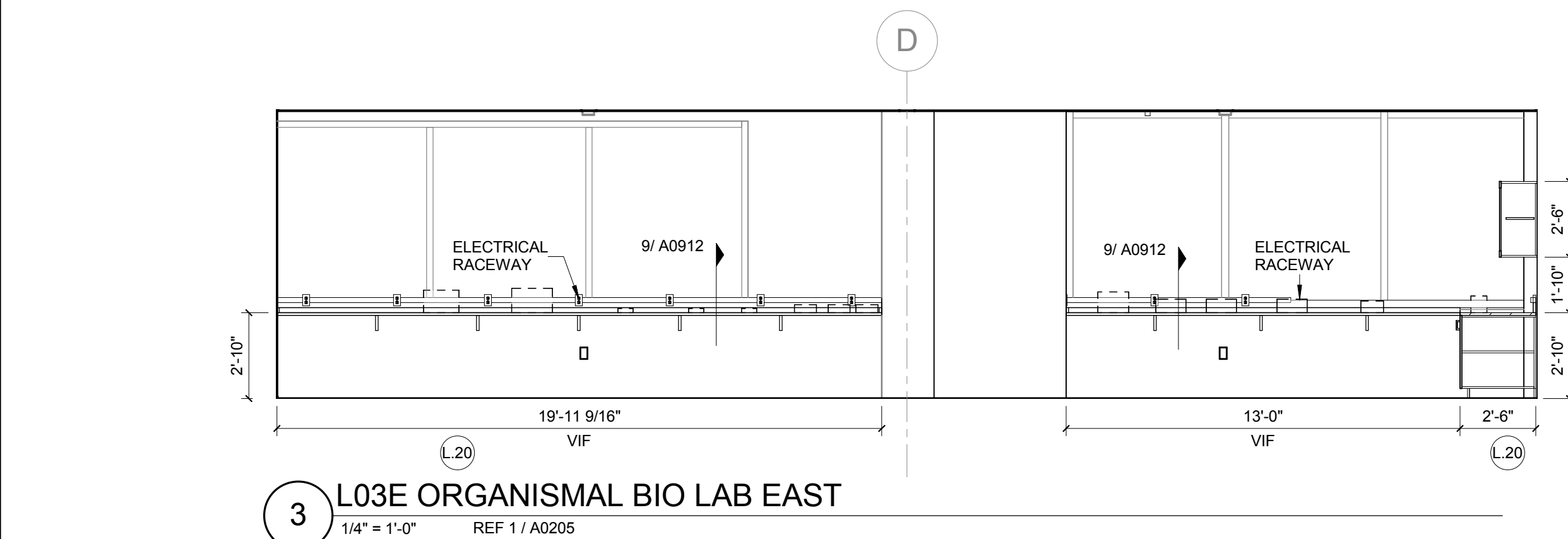
- CW WATER COLD WATER FAUCET, DECK MOUNTED GOOSENECK WITH SERRATED NOZZLE, VACUUM BREAKER
- W-1 WATER GENERAL MIXING FAUCET, DECK MOUNTED WITH VACUUM BREAKER, SERRATED NOZZLE.
- DI WATER DI WATER FAUCET, DECK MOUNTED
- PWS WATER PROCESS COLD WATER SUPPLY
- PWR WATER PROCESS COLD WATER RETURN
- EW WATER EYEWASH, DECK MOUNTED, AUTOFLOW SWING-DOWN
- DH WATER DRENCH HOSE
- G GAS FUME HOOD CONTROL
- V VAC FUME HOOD CONTROL
- V-3 VAC WALL MOUNTED, SINGLE SERRATED OUTLET
- V-1 VAC TURRET BASE, SINGLE SERRATED OUTLET
- V-4 VAC OUTLET FOR BIOSAFETY CABINET CONNECTIONS
- V-5 VAC QUICK DISCONNECT FOR OVERHEAD SERVICE CARRIER
- A AIR FUME HOOD CONTROL
- A-1 AIR TURRET BASE, SINGLE SERRATED OUTLET
- A-3 AIR WALL MOUNTED, SINGLE SERRATED OUTLET
- A-4 AIR OUTLET FOR BIOSAFETY CABINET CONNECTIONS
- A-5 AIR QUICK DISCONNECT FOR OVERHEAD SERVICE CARRIER
- N NITROGEN FUMEHOOD CONTROL
- ELEC. DUPLEX OUTLET (GFI) ON FUME HOOD
- E-1 ELEC. COUNTERTOP MOUNTED PEDESTAL, (1) DUPLEX ELECTRICAL OUTLET
- E-2 ELEC. COUNTERTOP MOUNTED PEDESTAL, (2) DUPLEX ELECTRICAL OUTLET
- E-3 ELEC. WALL MOUNTED, (1) DUPLEX ELECTRICAL OUTLET
- E-5 ELEC. DUPLEX ELECTRICAL OUTLET ON OVERHEAD SERVICE CARRIER
- E-6 ELEC. DUPLEX ELECTRICAL OUTLET ON TABLE APRON
- D DATA DATA OUTLET
- D-1 DATA COUNTERTOP MOUNTED PEDESTAL, (2) DATA OUTLETS
- D-5 DATA DATA OUTLET ON OVERHEAD SERVICE CARRIER
- D-6 DATA DATA OUTLET ON TABLE APRON
- CS CUP SINK LIPPED MODIFIED EPOXY CUP SINK, 9"Lx3"W OVAL (DROP-IN)
- S-1 SINK LIPPED MODIFIED EPOXY SINK, 25"Lx15"Wx10"D (DROP-IN)
- S-2 SINK LIPPED MODIFIED EPOXY ADA SINK 25"Lx15"Wx6"D (DROP-IN)
- S-3 SINK STAINLESS STEEL SINK 25"Lx15"Wx10"D (DROP-IN)
- S-4 SINK STAINLESS STEEL ADA SINK 25"Lx15"Wx5"D (DROP-IN)
- S-5 SINK LIPPED MODIFIED EPOXY ADA SINK 18"Lx15"Wx5"D (DROP-IN)
- S-6 SINK LIPPED MODIFIED EPOXY SINK, 36"Lx15"Wx10"D (DROP-IN)
- OSC OVERHEAD SERVICE CARRIER. SEE DETAIL 10 / A0913
- PTD PAPER TOWEL DISPENSER

CHEMICAL FUME HOOD LEGEND

- CFH-4 4'-0" WIDE CHEMICAL FUME HOOD
- CFH-6 6'-0" WIDE CHEMICAL FUME HOOD

LAB GENERAL NOTES

- ALL DIMENSIONS ARE TO GWB FACE PARTITION OR COLUMN CENTER LINE U.N.O.
- OWNER FURNISHED OWNER INSTALLED (OFOI) ITEMS ARE SHOWN DASHED FOR REFERENCE ONLY. COORDINATE SIZE AND INSTALLATION REQUIREMENTS WITH OWNER'S REPRESENTATIVE.
- CENTER ALL DRYING RACKS WITH DRIP STOP TROUGHS ABOUT CENTERLINE OF SINKS, U.N.O.
- ALL APRONS AT OPEN KNEE SPACE TO BE 4" U.N.O. PROVIDE APRON OF SOLID WOOD WITH EASED BOTTOM EDGE. FINISH TO MATCH VENER SPECIES. MAINTAIN MINIMUM 2" CLEAR ABOVE FLOOR FINISH.
- CENTER ALL COUNTERTOP MOUNTED UTILITY OUTLETS ON CENTER OF CASEWORK U.N.O.
- ALL SURFACE MOUNTED RACEWAY TO HAVE OUTLETS AT 2'-0" O.C. AND SHALL BE MOUNTED DIRECTLY ABOVE BACKSPLASH U.N.O.
- ALL BACKSPLASHES TO BE 4" HIGH U.N.O.
- DASHED LINES ON ELEVATIONS INDICATED ADJUSTABLE SHELVE INSIDE CASEWORK
- PROVIDE FINISHED BACK PANEL AT KNEE SPACES BELOW ALL FUMEHOODS, TYPICAL. SIMILAR TO DETAIL
- PROVIDE FINISHED BACK PANEL AT ALL KNEE SPACES, TYPICAL
- PROVIDE LOCK AND KEY WHERE A CIRCLE NEXT TO DRAWER OR DOOR HANDLE IS SHOWN OR WHERE NOTED
- REFER SHEETS A0914 FOR LABORATORY CASEWORK / MILLWORK DETAILS
- FOR TYPICAL MOUNTING HEIGHTS REF: 1/A0911
- ALL CASEWORK TO BE WOOD U.N.O.
- ALL CASEWORK IS LABORATORY CASEWORK UNLESS NOTED AS MILLWORK OR ORO. SEE DIVISION 12 3555 - LABORATORY CASEWORK FOR SPECIFICATIONS.
- ALL EQUIPMENT ITEMS HAVE A EQUIPMENT TAG - XXX-XXX. SEE SHEETS A114 FOR EQUIPMENT SCHEDULES.
- PROVIDE PAPER TOWEL DISPENSER (PTD) AT EACH SINK LOCATION.



LAB KEYED NOTE LEGEND	
L.1	WRITABLE AND PROJECTABLE SURFACE, DIMENSIONS AS NOTED
L.2	RECESSED, CEILING MOUNTED PROJECTION SCREEN
L.3	WALL MOUNTED PROJECTOR ABOVE
L.4	EMERGENCY SAFETY SHOWER WITH EYEWASH
L.5	115313 CHEMICAL FUME HOOD W/ STORAGE BELOW. TYPICAL FUME HOOD TO HAVE ELECTRIC AND UTILITIES AS INDICATED.
L.7	WOOD LAB CASEWORK MICROSCOPE CAB
L.8	WOOD LAB CASEWORK TALL CABINET WITH OPEN CUBBIES FOR BOOK BAG STORAGE.
L.9	11 5313 CHEMICAL FUME HOOD - ACCESSIBLE - WITH MOBILE STORAGE BELOW, WHERE SHOWN. TYPICAL FUME HOOD TO HAVE ELECTRIC, AND UTILITIES AS INDICATED.
L.11	CABS BELOW WHITEBOARD
L.12	CAMERA FOR SKYPE INTERVIEW
L.14	GAS CYLINDER STORAGE RACK (CFO), CYLINDERS TO BE "OF" OF
L.15	RECESSED MOTORIZED ROOM DARKENING / BLACKOUT SHADES. USE DOUBLE SHADES AT WEST CLASSROOMS LEVEL 02 AND LECTURE HALL. REFER TO REFLECTED CEILING PLANS
L.16	LCD MONITOR
L.18	MOBILE LABORATORY CASEWORK SYSTEM. SEE DETAIL 09/A0911.
L.19	MOVEABLE WOOD LABORATORY CASEWORK: TABLE WITH MODIFIED EPOXY COUNTERTOP. CABINETS SUSPENDED BELOW AS INDICATED.
L.20	FIXED WOOD LABORATORY CASEWORK - BASE CABINETS, MODIFIED EPOXY COUNTERTOP, WALL CABINETS AS SHOWN ON ELEVATION
L.21	SEE CEILING PLAN FOR CEILING MOUNTED UNISTRUT SYSTEM SUPPORTED BY STRUCTURE ABOVE
L.22	8" DEEP X 6" WIDE TRENCH WITH METAL COVER TO RECEIVE FLOOR FINISH TO MATCH ADJACENT FLOOR
L.23	FLOOR BOX FOR ELECTRICAL & DATA
L.24	08 6668 DRY ERASE FINISH (AWC-1)
L.25	PROVIDE BLOCKING FOR FIRE EXTINGUISHER, MOUNTING HEIGHT - 3'-0" TO TOP OF EXTINGUISHER. FIRE EXTINGUISHER & ITS BRACKET BY OWNER.
L.26	POINT EXHAUST (SNORKEL) FOR SOLDERING. SEE DETAIL 5/ A0913.

LAB UTILITY LEGEND	
CW	WATER COLD WATER FAUCET, DECK MOUNTED GOOSENECK WITH SERRATED NOZZLE, VACUUM BREAKER
W-1	WATER GENERAL MIXING FAUCET, DECK MOUNTED WITH VACUUM BREAKER, SERRATED NOZZLE.
DI	WATER DI WATER FAUCET DECK MOUNTED
PWS	WATER PROCESS COLD WATER SUPPLY
PWR	WATER PROCESS COLD WATER RETURN
EW	WATER EYEWASH, DECK MOUNTED, AUTOFLOW SWING-DOWN
DH	WATER DRENCH HOSE
G	GAS FUME HOOD CONTROL
V	VAC FUME HOOD CONTROL
V-3	VAC WALL MOUNTED, SINGLE SERRATED OUTLET
V-1	VAC TURRET BASE, SINGLE SERRATED OUTLET
V-4	VAC OUTLET FOR BIOSAFETY CABINET CONNECTIONS
V-5	VAC QUICK DISCONNECT FOR OVERHEAD SERVICE CARRIER
A	AIR FUME HOOD CONTROL
A-1	AIR TURRET BASE, SINGLE SERRATED OUTLET
A-3	AIR WALL MOUNTED, SINGLE SERRATED OUTLET
A-4	AIR OUTLET FOR BIOSAFETY CABINET CONNECTIONS
A-5	AIR QUICK DISCONNECT FOR OVERHEAD SERVICE CARRIER
N	NITROGEN FUMEHOOD CONTROL
E	ELEC. DUPLEX OUTLET (GFI) ON FUME HOOD
E-1	ELEC. COUNTERTOP MOUNTED PEDESTAL, (1) DUPLEX ELECTRICAL OUTLET.
E-2	ELEC. COUNTERTOP MOUNTED PEDESTAL, (2) DUPLEX ELECTRICAL OUTLET.
E-3	ELEC. WALL MOUNTED, (1) DUPLEX ELECTRICAL OUTLET.
E-5	ELEC. DUPLEX ELECTRICAL OUTLET ON OVERHEAD SERVICE CARRIER
E-6	ELEC. DUPLEX ELECTRICAL OUTLET ON TABLE APRON
D	DATA DATA OUTLET
D-1	DATA COUNTERTOP MOUNTED PEDESTAL, (2) DATA OUTLETS
D-5	DATA DATA OUTLET ON OVERHEAD SERVICE CARRIER
D-6	DATA DATA OUTLET ON TABLE APRON
S-1	CLIP SINK LIPPED MODIFIED EPOXY CLIP SINK, 9"X3" W OVAL (DROP-IN).
S-2	SINK LIPPED MODIFIED EPOXY ADA SINK 25"X15"X10" (DROP-IN).
S-3	SINK STAINLESS STEEL SINK 25"X15"X10" (DROP-IN).
S-4	SINK STAINLESS STEEL ADA SINK 25"X15"X10" (DROP-IN).
S-5	SINK LIPPED MODIFIED EPOXY ADA SINK 18"X15"X10" (DROP-IN).
S-6	SINK LIPPED MODIFIED EPOXY SINK, 36"X15"X10" (DROP-IN).
OSC	OVERHEAD SERVICE CARRIER. SEE DETAIL 10/ A0913.
PTD	PAPER TOWEL DISPENSER

CHEMICAL FUME HOOD LEGEND	
CFH-4	4'-0" WIDE CHEMICAL FUME HOOD
CFH-6	6'-0" WIDE CHEMICAL FUME HOOD

LAB GENERAL NOTES	
1.	ALL DIMENSIONS ARE TO GWB FACE PARTITION OR COLUMN
2.	CENTER LINE U.N.O.
3.	OWNER FURNISHED OWNER INSTALLED (OFOI) ITEMS ARE SHOWN DASHED FOR REFERENCE ONLY. COORDINATE SIZE AND INSTALLATION REQUIREMENTS WITH OWNERS REPRESENTATIVE.
4.	CENTER ALL DRYING RACKS WITH DRIP STOP TROUGHS ABOUT CENTERLINE OF SINKS, U.N.O.
5.	ALL APRONS AT OPEN KNEE SPACE TO BE 4" U.N.O. PROVIDE APRON OF SOLID WOOD WITH EASED BOTTOM EDGE FINISH TO MATCH VENEER SPECIES. MAINTAIN MINIMUM 27" CLEAR ABOVE FLOOR FINISH.
6.	CENTER ALL COUNTERTOP MOUNTED UTILITY OUTLETS ON CENTER OF CASEWORK U.N.O.
7.	ALL SURFACE MOUNTED RACEWAY TO HAVE OUTLETS AT 2'-0" O.C. AND SHALL BE MOUNTED DIRECTLY ABOVE BACKSPLASH U.N.O.
8.	ALL BACKSPLASHES TO BE 4" HIGH U.N.O.
9.	DASHED LINES ON ELEVATIONS INDICATED ADJUSTABLE SHELVE INSIDE CASEWORK
10.	PROVIDE FINISHED BACK PANEL AT KNEE SPACES BELOW ALL FUMEHOODS. TYPICAL. SIMILAR TO DETAIL
11.	PROVIDE FINISHED BACK PANEL AT ALL KNEE SPACES. TYPICAL
12.	PROVIDE LOCK AND KEY WHERE A CIRCLE NEXT TO DRAWER OR DOOR HANDLE IS SHOWN OR WHERE NOTED
13.	REFER SHEETS A0911 FOR LABORATORY CASEWORK / MILLWORK DETAILS.
14.	FOR TYPICAL MOUNTING HEIGHTS REF. 1/A0911
15.	ALL CASEWORK IS LABORATORY CASEWORK UNLESS NOTED AS MILLWORK OR OFOI. SEE DIVISION 12 3553 - LABORATORY CASEWORK FOR SPECIFICATIONS
16.	ALL EQUIPMENT ITEMS HAVE AN EQUIPMENT TAG - XX-XXX-XX. SEE SHEETS A114 FOR EQUIPMENT SCHEDULES
17.	PROVIDE PAPER TOWEL DISPENSER (PTD) AT EACH SINK LOCATION.



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PART OF EXHIBIT-A

CONFORMED SET 01 JUL 2016

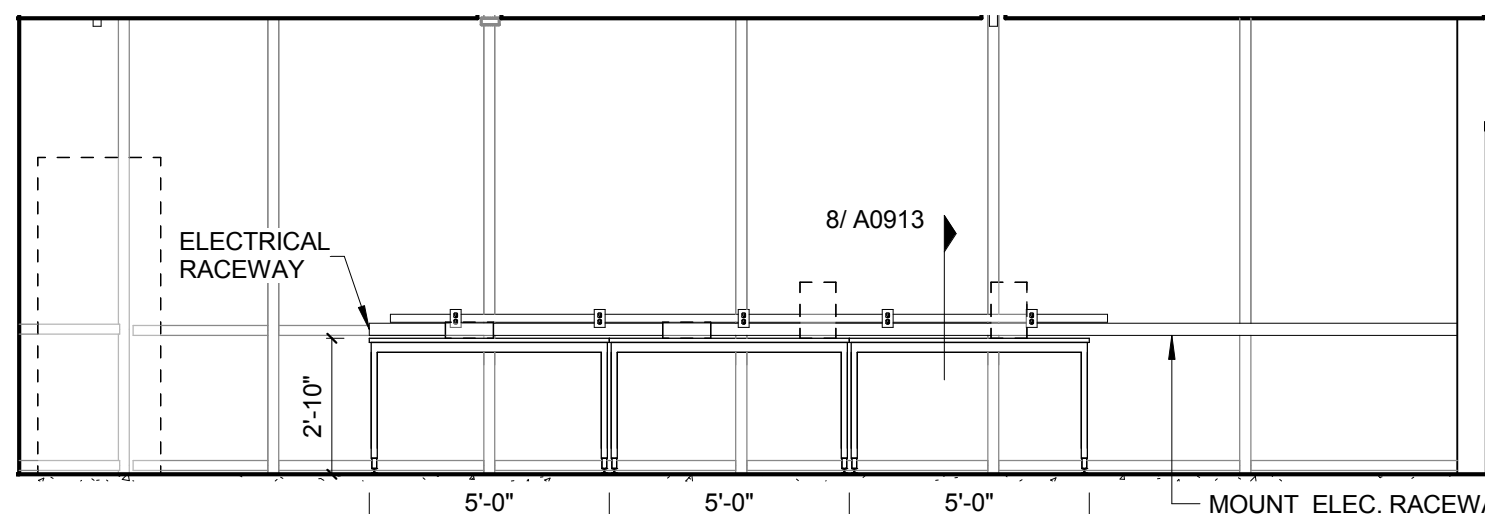
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2	ISSUED FOR CONSTRUCTION (BP3)	15 MAR 2016
No.	Description	Date

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INTERIOR LAB ELEVATIONS LEVEL 03

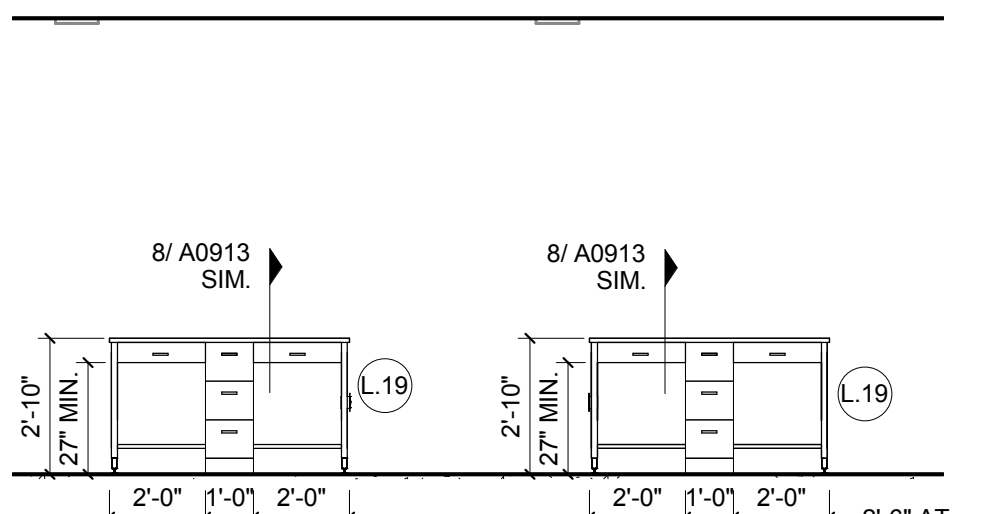
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A0615

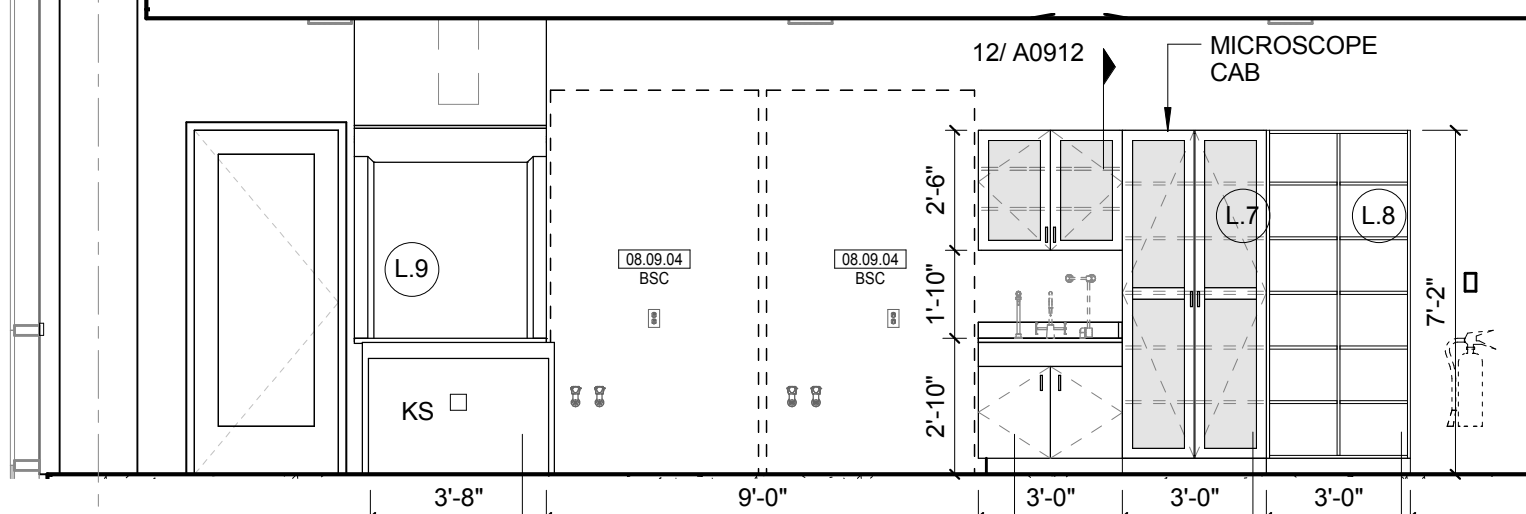
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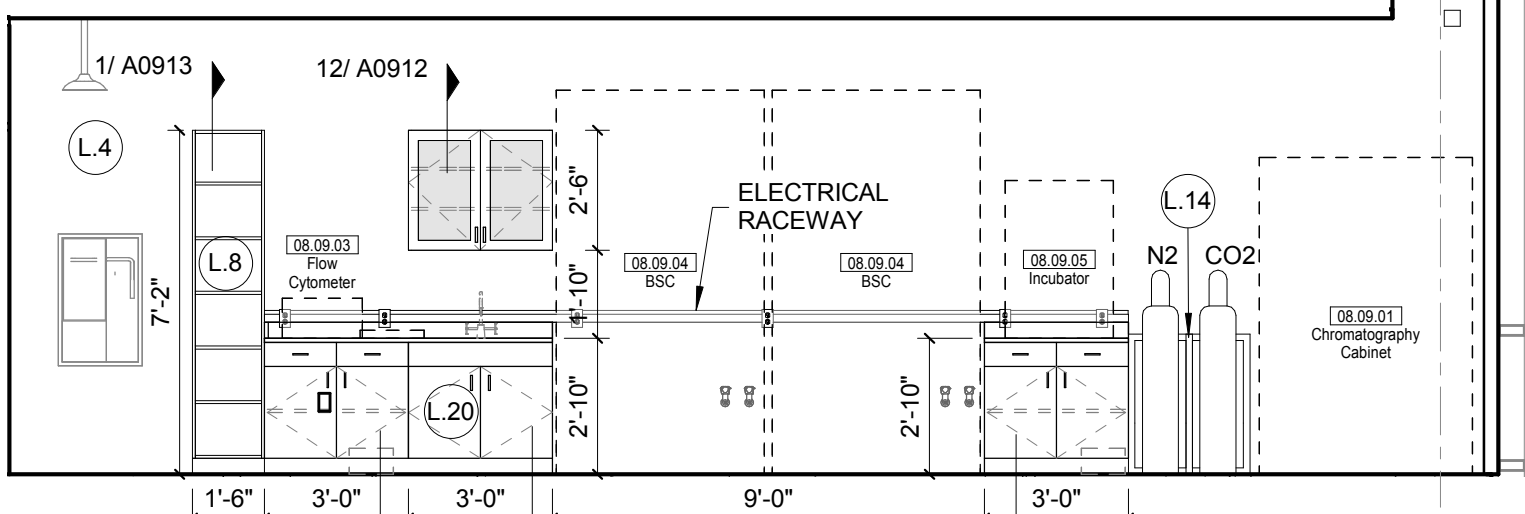
10 L03 ANATOMY/ PHYSIO LAB - WEST
1/4" = 1'-0"



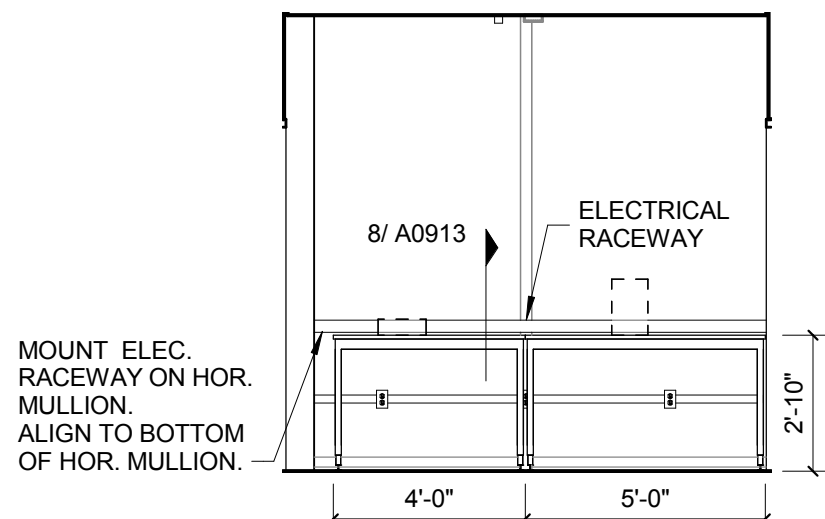
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1/4" = 1'-0"



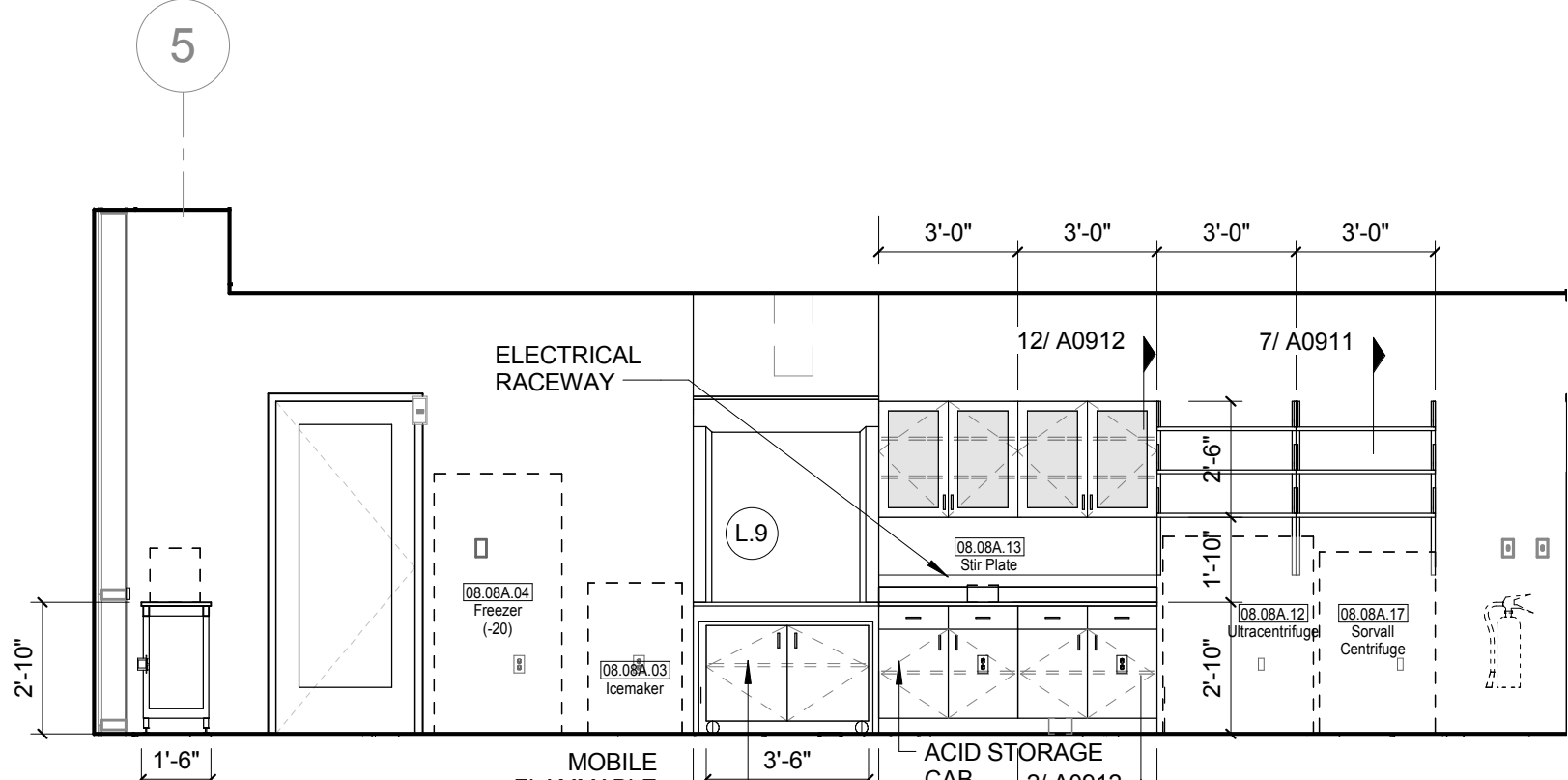
9 L03 ANATOMY/ PHYSIO LAB - NORTH
1/4" = 1'-0"



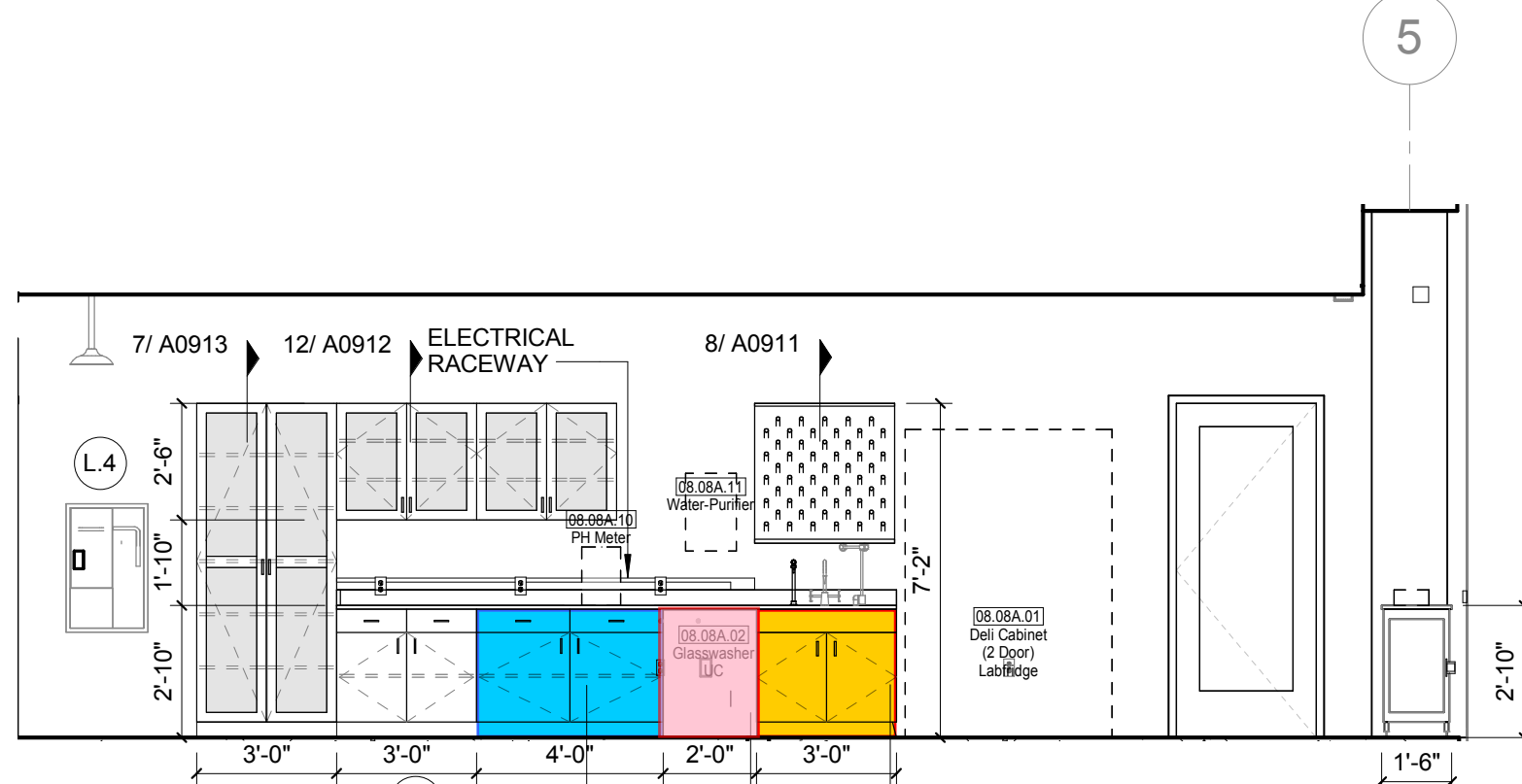
8 L03 ANATOMY / PHYSIO LAB - SOUTH
1/4" = 1'-0"



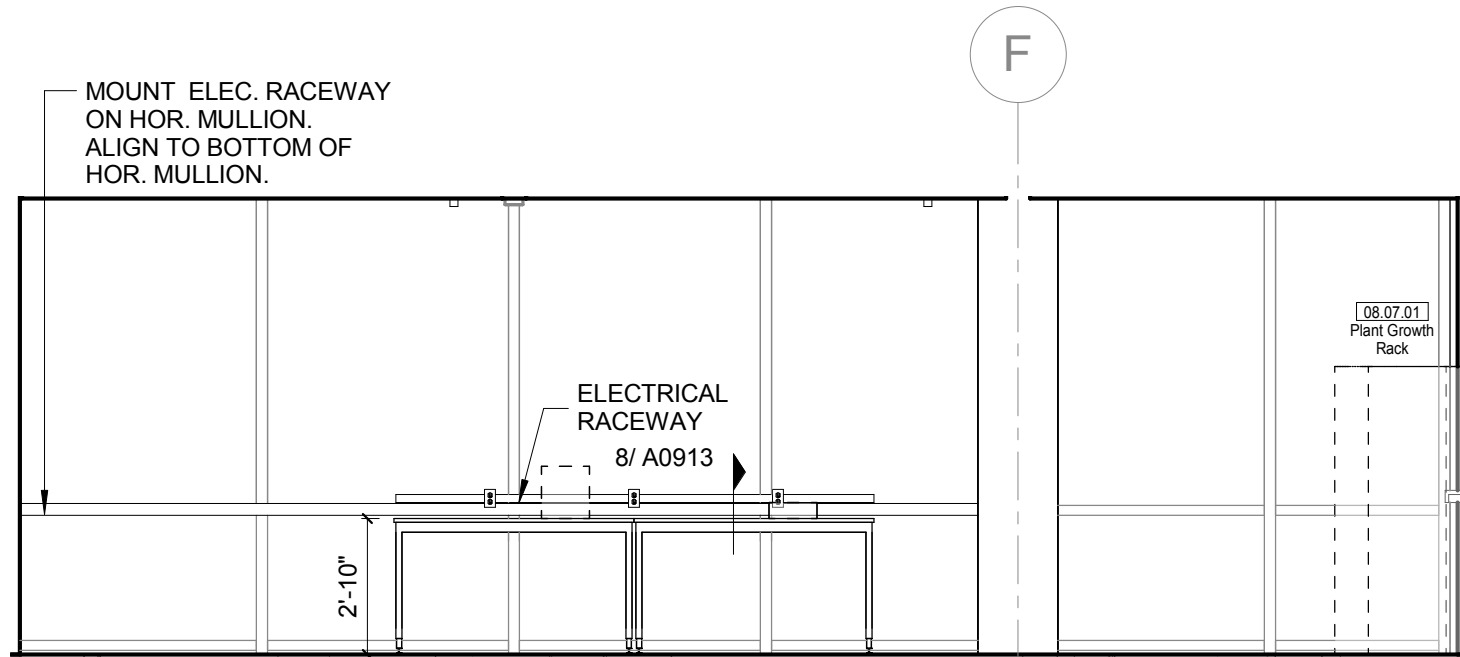
7 L03 BIO LAB PREP 8.08A - WEST
1/4" = 1'-0"



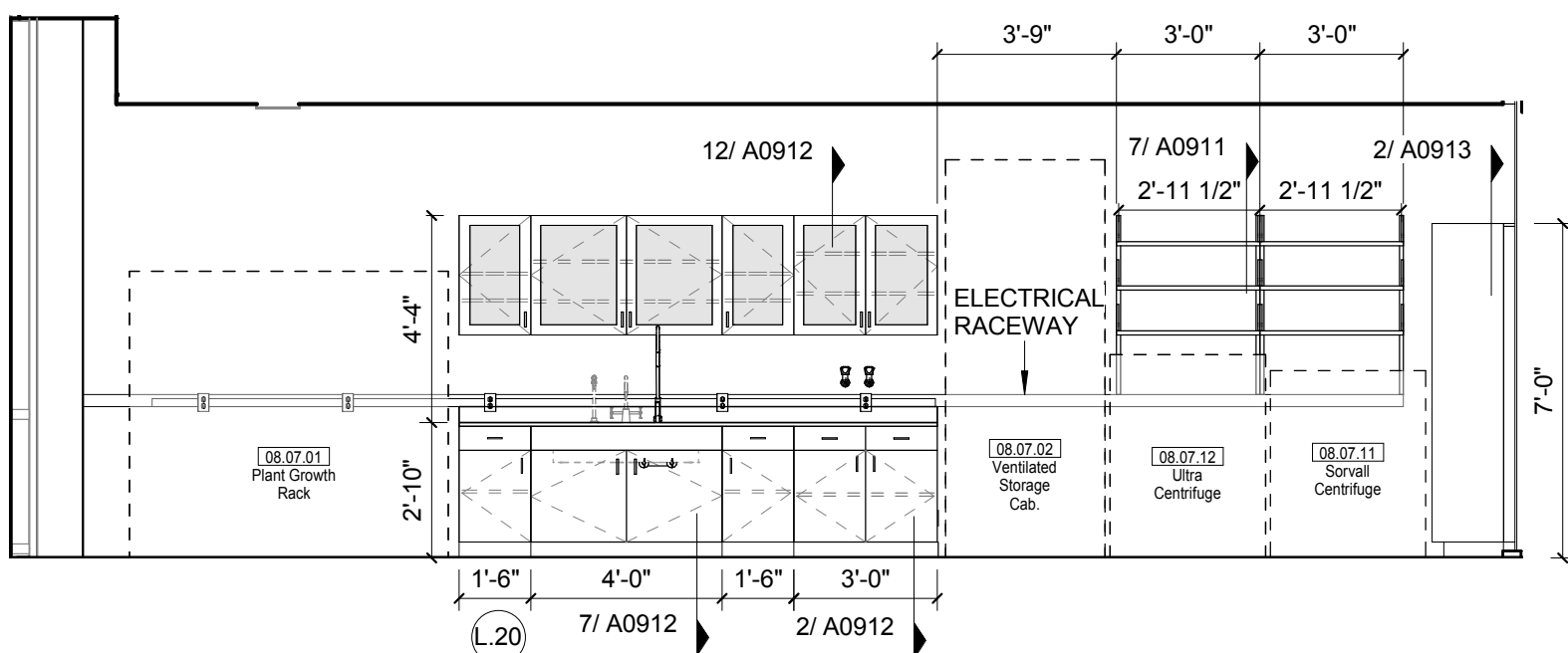
6 L03 BIO LAB PREP 8.08A - NORTH
1/4" = 1'-0"



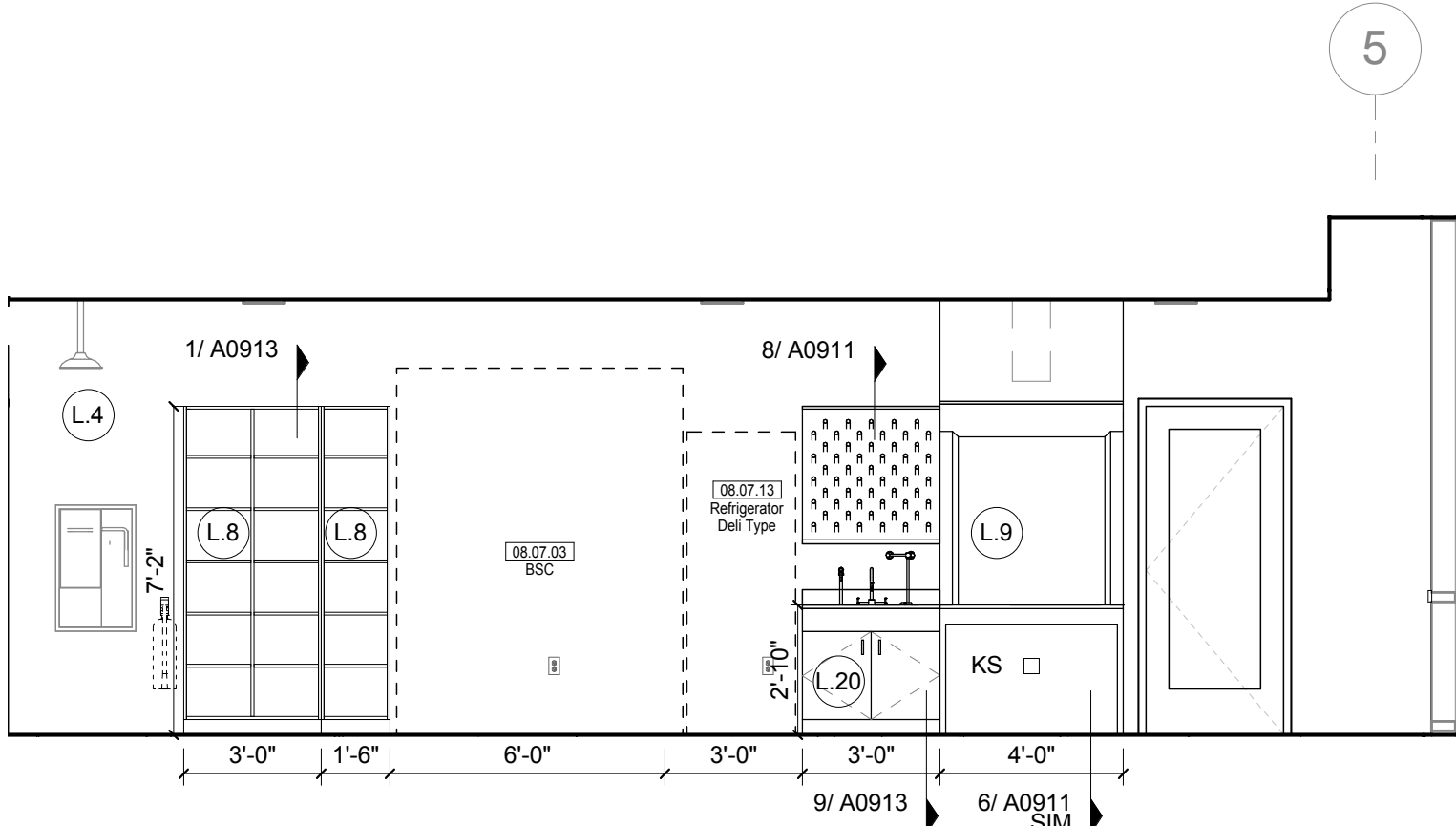
5 L03 BIO LAB PREP 8.08A - SOUTH
1/4" = 1'-0"



10 L03 ANATOMY/ PHYSIO LAB - WEST
1/4" = 1'-0"



9 L03 ANATOMY/ PHYSIO LAB - NORTH
1/4" = 1'-0"



8 L03 ANATOMY / PHYSIO LAB - SOUTH
1/4" = 1'-0"

LAB KEYED NOTE LEGEND

- L.1 WRITABLE AND PROJECTABLE SURFACE, DIMENSIONS AS NOTED
- L.2 RECESSED, CEILING MOUNTED PROJECTION SCREEN
- L.3 WALL MOUNTED PROJECTOR ABOVE
- L.4 EMERGENCY SAFETY SHOWER WITH EYEWASH
- L.5 115313 CHEMICAL FUME HOOD W/ STORAGE BELOW. TYPICAL FUME HOOD TO HAVE ELECTRIC AND UTILITIES AS INDICATED.
- L.7 WOOD LAB CASEWORK MICROSCOPE CAB
- L.8 WOOD LAB CASEWORK: TALL CABINET WITH OPEN CUBBIES FOR BOOK BAG STORAGE.
- L.9 115313 CHEMICAL FUME HOOD - ACCESSIBLE - WITH MOBILE STORAGE BELOW, WHERE SHOWN. TYPICAL FUME HOOD TO HAVE ELECTRIC, AND UTILITIES AS INDICATED.
- L.11 CABS BELOW WHITEBOARD
- L.12 CAMERA FOR SKYPE INTERVIEW
- L.14 GAS CYLINDER STORAGE RACK (CFCI), CYLINDERS TO BE "0"0"
- L.15 RECESSED MOTORIZED ROOM DARKENING / BLACKOUT SHADES. USE DOUBLE SHADES AT WEST CLASSROOMS LEVEL 02 AND LECTURE HALL. REFER TO REFLECTED CEILING PLANS
- L.16 LCD MONITOR
- L.18 MOBILE LABORATORY CASEWORK SYSTEM. SEE DETAIL 09/A0911.
- L.19 MOVEABLE WOOD LABORATORY CASEWORK: TABLE WITH MODIFIED EPOXY COUNTERTOP, CABINETS SUSPENDED BELOW AS INDICATED.
- L.20 FIXED WOOD LABORATORY CASEWORK - BASE CABINETS, MODIFIED EPOXY COUNTERTOP, WALL CABINETS AS SHOWN ON ELEVATION
- L.21 SEE CEILING PLAN FOR CEILING MOUNTED UNISTRUT SYSTEM SUPPORTED BY STRUCTURE ABOVE
- L.22 8" DEEP X 6" WIDE TRENCH WITH METAL COVER TO RECEIVE FLOOR FINISH TO MATCH ADJACENT FLOOR
- L.23 FLOOR BOX FOR ELECTRICAL & DATA
- L.24 09/0606 DRY ERASE FINISH (AWC-1)
- L.25 PROVIDE BLOCKING FOR FIRE EXTINGUISHER, MOUNTING HEIGHT - 3'-0" TO TOP OF EXTINGUISHER. FIRE EXTINGUISHER & ITS BRACKET BY OWNER.
- L.26 POINT EXHAUST (SNORKEL) FOR SOLDERING. SEE DETAIL 5/ A0913.

LAB UTILITY LEGEND

- CW WATER COLD WATER FAUCET, DECK MOUNTED GOOSENECK WITH SERRATED NOZZLE, VACUUM BREAKER
- W-1 WATER GENERAL MIXING FAUCET, DECK MOUNTED WITH VACUUM BREAKER, SERRATED NOZZLE.
- DI WATER DI WATER FAUCET DECK MOUNTED
- PWS WATER PROCESS COLD WATER SUPPLY
- PWR WATER PROCESS COLD WATER RETURN
- EW WATER EYEWASH, DECK MOUNTED, AUTOFLOW SWING-DOWN
- DH WATER DRENCH HOSE
- G GAS FUME HOOD CONTROL
- V VAC FUME HOOD CONTROL
- V-3 VAC WALL MOUNTED, SINGLE SERRATED OUTLET
- V-1 VAC TURRET BASE, SINGLE SERRATED OUTLET
- V-4 VAC OUTLET FOR BIOSAFETY CABINET CONNECTIONS
- V-5 VAC QUICK DISCONNECT FOR OVERHEAD SERVICE CARRIER
- A AIR FUME HOOD CONTROL
- A-1 AIR TURRET BASE, SINGLE SERRATED OUTLET
- A-3 AIR WALL MOUNTED, SINGLE SERRATED OUTLET
- A-4 AIR OUTLET FOR BIOSAFETY CABINET CONNECTIONS
- A-5 AIR QUICK DISCONNECT FOR OVERHEAD SERVICE CARRIER
- N NITROGEN FUMEHOOD CONTROL
- E ELEC. DUPLEX OUTLET (GFI) ON FUME HOOD
- E-1 ELEC. COUNTERTOP MOUNTED PEDESTAL, (1) DUPLEX ELECTRICAL OUTLET
- E-2 ELEC. COUNTERTOP MOUNTED PEDESTAL, (2) DUPLEX ELECTRICAL OUTLET
- E-3 ELEC. WALL MOUNTED, (1) DUPLEX ELECTRICAL OUTLET
- E-5 ELEC. DUPLEX ELECTRICAL OUTLET ON OVERHEAD SERVICE CARRIER
- E-6 ELEC. DUPLEX ELECTRICAL OUTLET ON TABLE APRON
- D DATA DATA OUTLET
- D-1 DATA COUNTERTOP MOUNTED PEDESTAL, (2) DATA OUTLETS
- D-5 DATA DATA OUTLET ON OVERHEAD SERVICE CARRIER
- D-6 DATA DATA OUTLET ON TABLE APRON
- CS CUP SINK LIPPED MODIFIED EPOXY CUP SINK, 9"X3"W OVAL (DROP-IN)
- S-1 SINK LIPPED MODIFIED EPOXY SINK, 25"Lx15"Wx10"D (DROP-IN)
- S-2 SINK LIPPED MODIFIED EPOXY ADA SINK 25"Lx15"Wx5"D (DROP-IN)
- S-3 SINK STAINLESS STEEL SINK 25"Lx15"Wx10"D (DROP-IN)
- S-4 SINK STAINLESS STEEL ADA SINK 25"Lx15"Wx5"D (DROP-IN)
- S-5 SINK LIPPED MODIFIED EPOXY ADA SINK 18"Lx15"Wx5"D (DROP-IN)
- S-6 SINK LIPPED MODIFIED EPOXY SINK, 36"Lx15"Wx10"D (DROP-IN)
- OSC OVERHEAD SERVICE CARRIER. SEE DETAIL 10 / A0913
- PTD PAPER TOWEL DISPENSER

CHEMICAL FUME HOOD LEGEND

- CFH-4 4'-0" WIDE CHEMICAL FUME HOOD
- CFH-6 6'-0" WIDE CHEMICAL FUME HOOD

LAB GENERAL NOTES

- ALL DIMENSIONS ARE TO GWB FACE PARTITION OR COLUMN CENTER LINE U.N.O.
- OWNER FURNISHED OWNER INSTALLED (OFOI) ITEMS ARE SHOWN DASHED FOR REFERENCE ONLY. COORDINATE SIZE AND INSTALLATION REQUIREMENTS WITH OWNER'S REPRESENTATIVE.
- CENTER ALL DRYING RACKS WITH DROP STOP TROUGHS ABOUT CENTERLINE OF SINKS, U.N.O.
- ALL APRONS AT OPEN KNEE SPACE TO BE 4" U.N.O. PROVIDE APRON OF SOLID WOOD WITH EASED BOTTOM EDGE. FINISH TO MATCH VENEER SPECIES. MAINTAIN MINIMUM 27" CLEAR ABOVE FLOOR FINISH.
- CENTER ALL COUNTERTOP MOUNTED UTILITY OUTLETS ON CENTER OF CASEWORK U.N.O.
- ALL SURFACE MOUNTED RACEWAY TO HAVE OUTLETS AT 2'-0" O.C. AND SHALL BE MOUNTED DIRECTLY ABOVE BACKSPLASH U.N.O.
- ALL BACKSPLASHES TO BE 4" HIGH U.N.O.
- DASHED LINES ON ELEVATIONS INDICATED ADJUSTABLE SHELVING INSIDE CASEWORK
- PROVIDE FINISHED BACK PANEL AT KNEE SPACES BELOW ALL FUMEHOODS, TYPICAL. SIMILAR TO DETAIL
- PROVIDE FINISHED BACK PANEL AT ALL KNEE SPACES, TYPICAL
- PROVIDE LOCK AND KEY WHERE A CIRCLE NEXT TO DRAWER OR DOOR HANDLE IS SHOWN OR WHERE NOTED
- REFER SHEETS A091x FOR LABORATORY CASEWORK / MILLWORK DETAILS
- FOR TYPICAL MOUNTING HEIGHTS REF: 1/A0911
- ALL CASEWORK TO BE WOOD U.N.O.
- ALL CASEWORK IS LABORATORY CASEWORK UNLESS NOTED AS MILLWORK OR OFOL. SEE DIVISION "12 3553 - LABORATORY CASEWORK" FOR SPECIFICATIONS
- ALL EQUIPMENT ITEMS HAVE A EQUIPMENT TAG - XX-XX-XX. SEE SHEETS A11x FOR EQUIPMENT SCHEDULES.
- PROVIDE PAPER TOWEL DISPENSER (PTD) AT EACH SINK LOCATION.



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**PART OF
EXHIBIT-A**

CONFORMED SET 01 JUL 2016

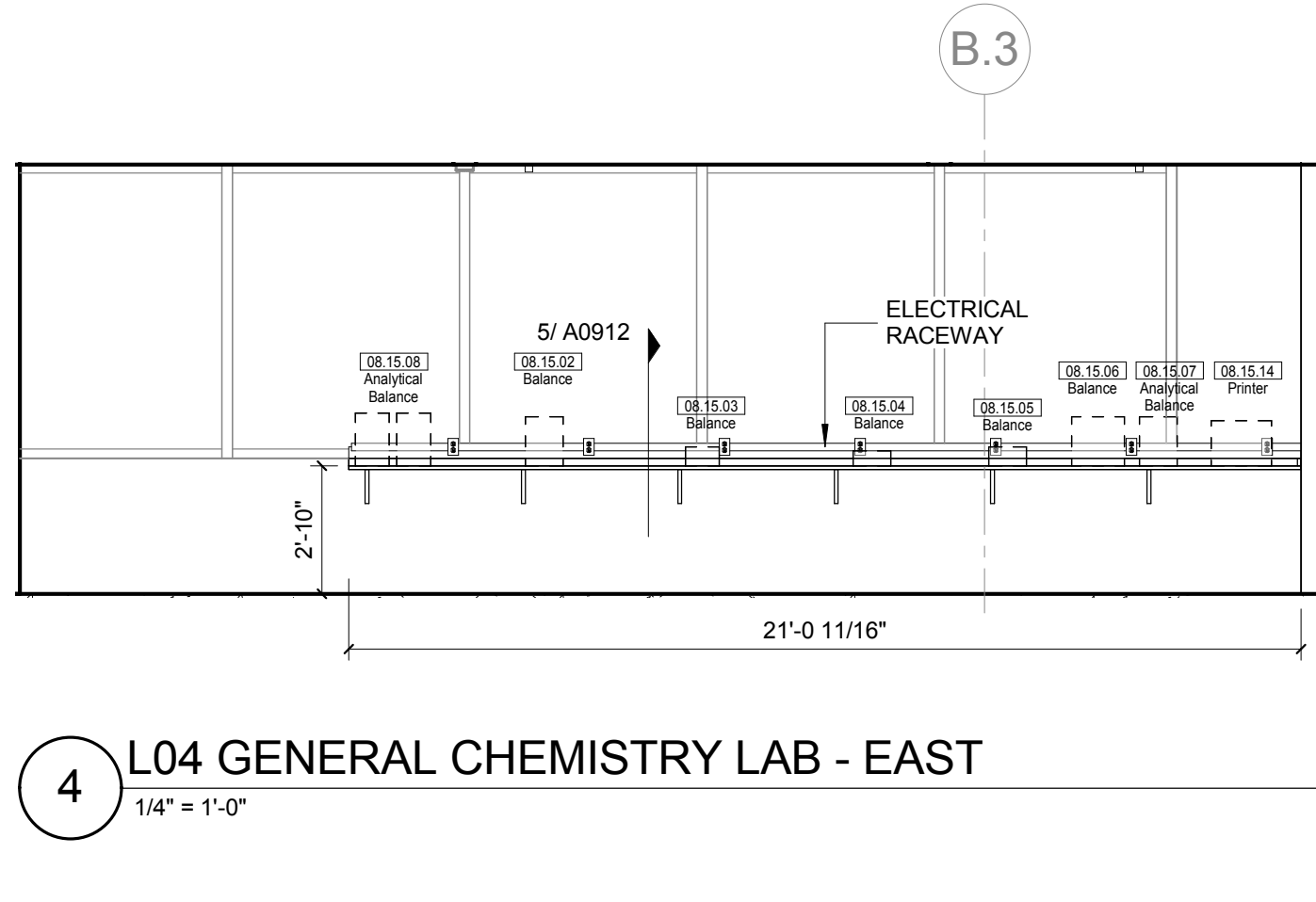
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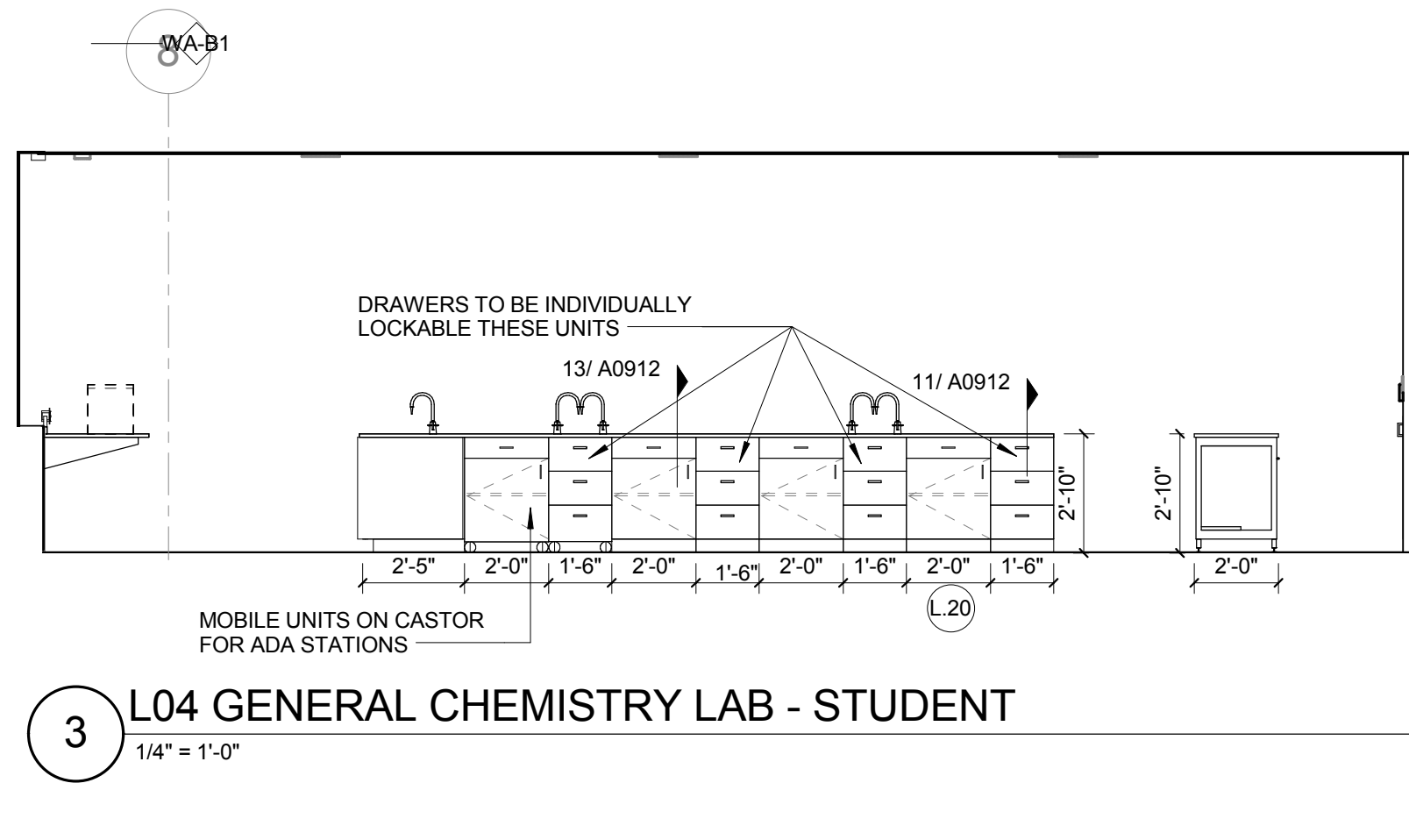
**INTERIOR LAB
ELEVATIONS LEVEL 03**

Project No.: 04561.01 Checked by:

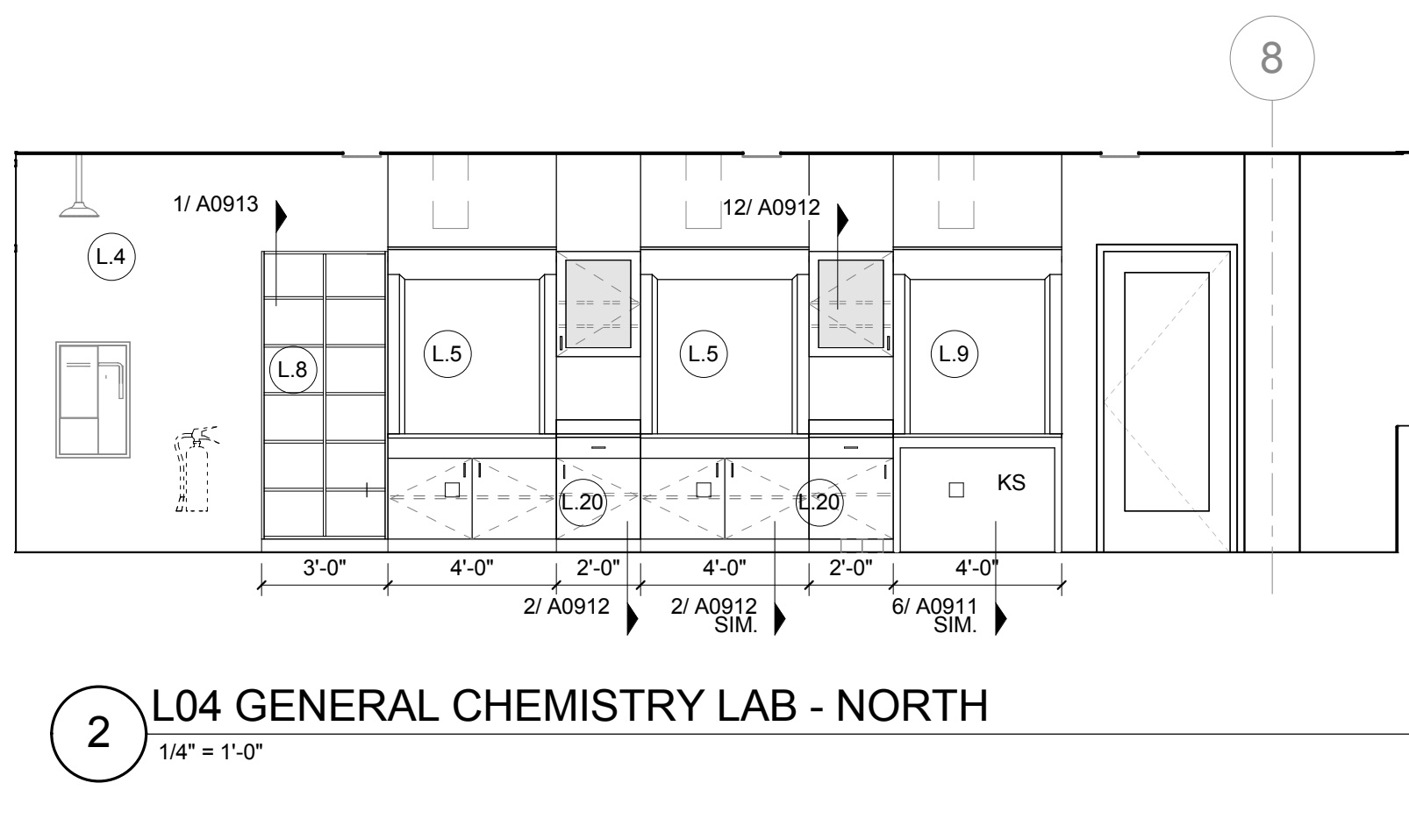
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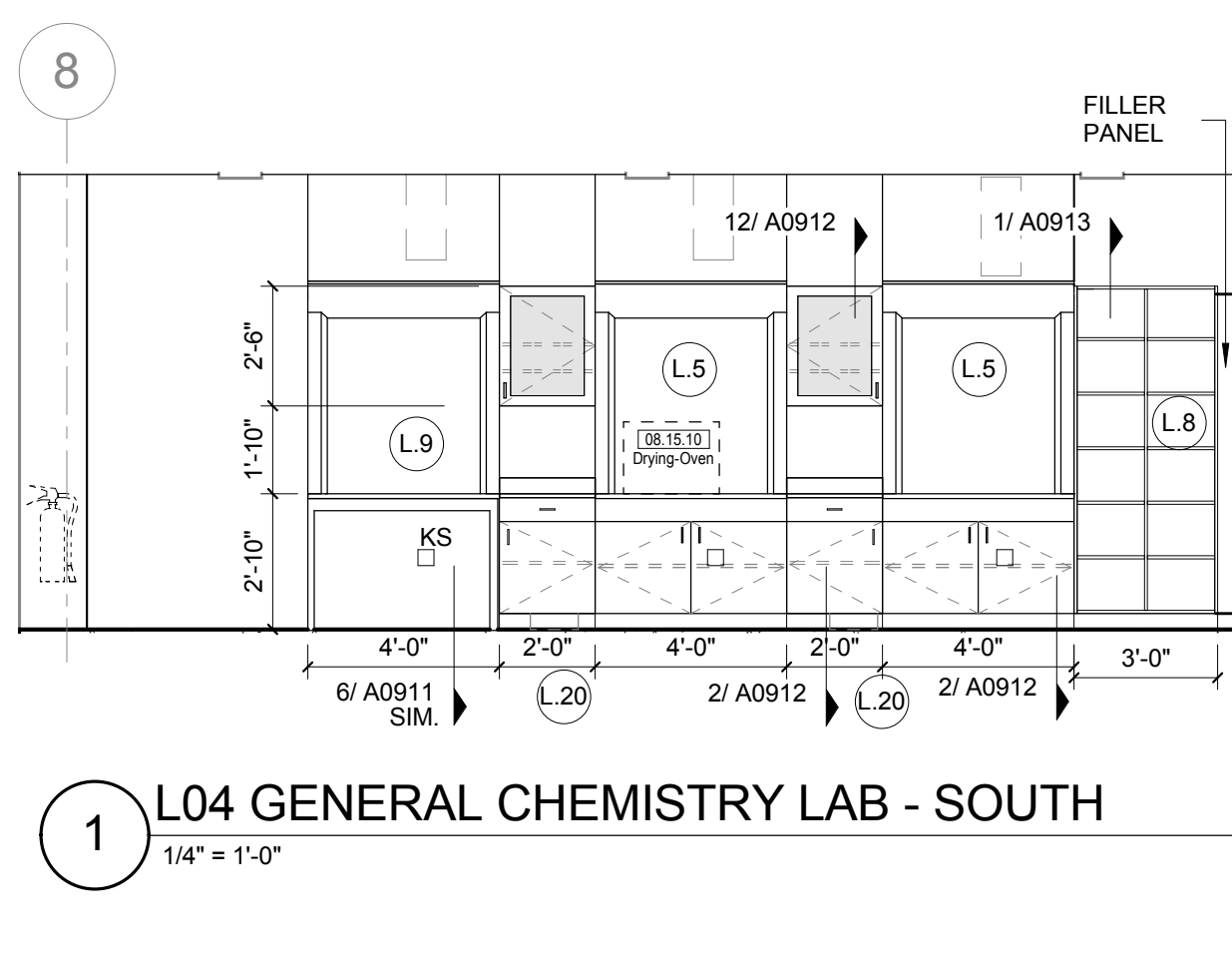
4 L04 GENERAL CHEMISTRY LAB - EAST
1/4" = 1'-0"



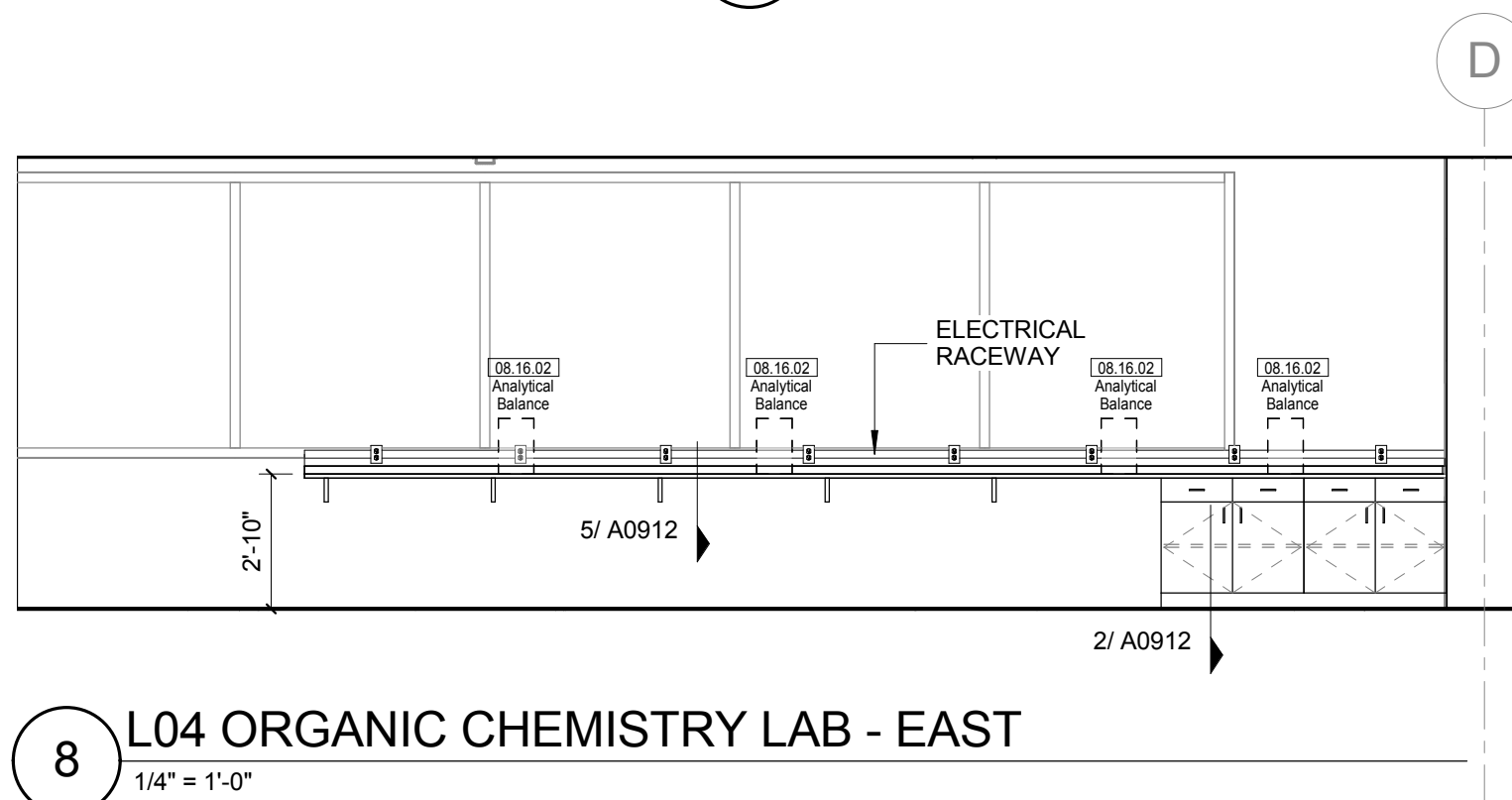
3 L04 GENERAL CHEMISTRY LAB - STUDENT
1/4" = 1'-0"



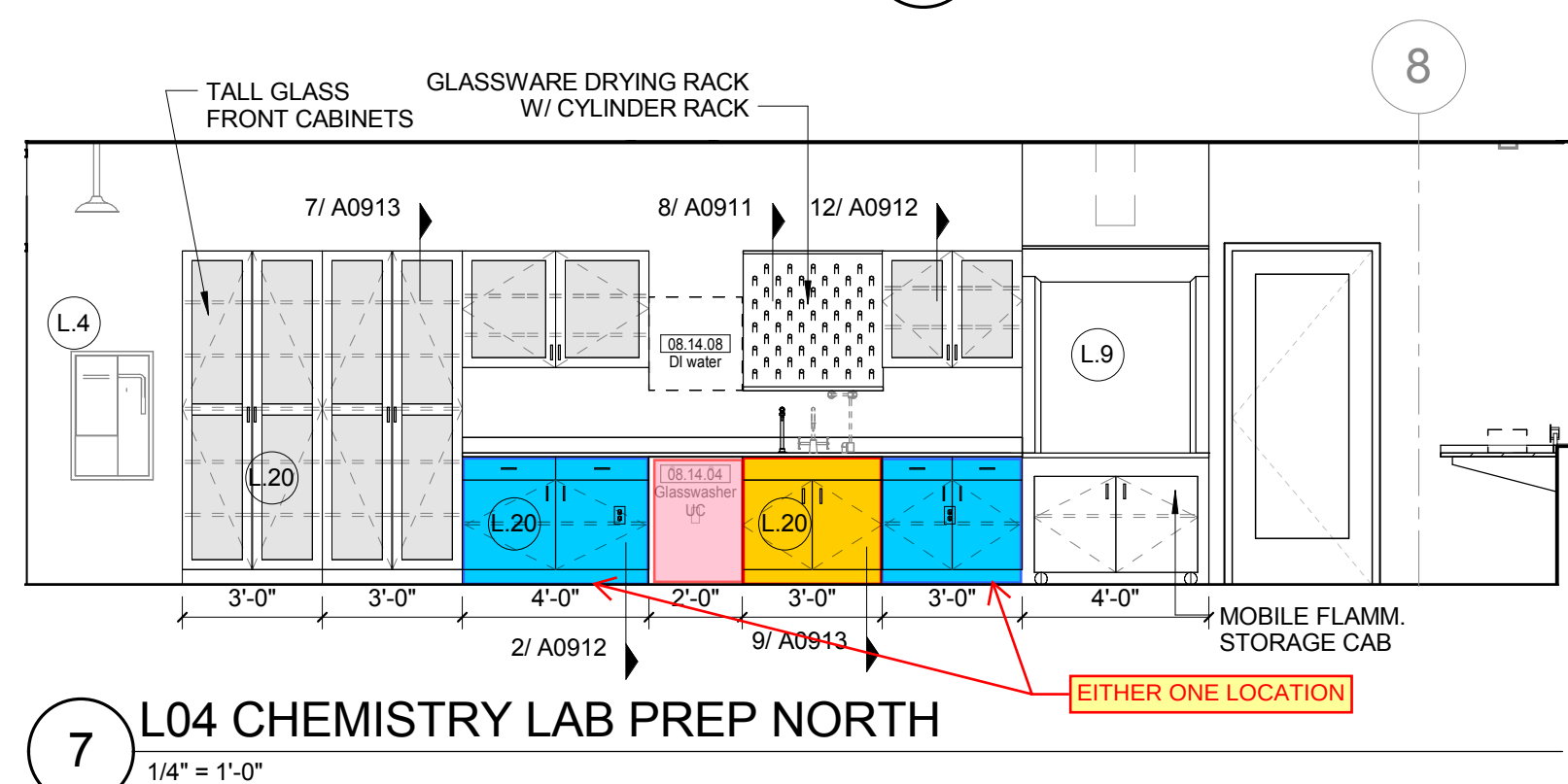
2 L04 GENERAL CHEMISTRY LAB - NORTH
1/4" = 1'-0"



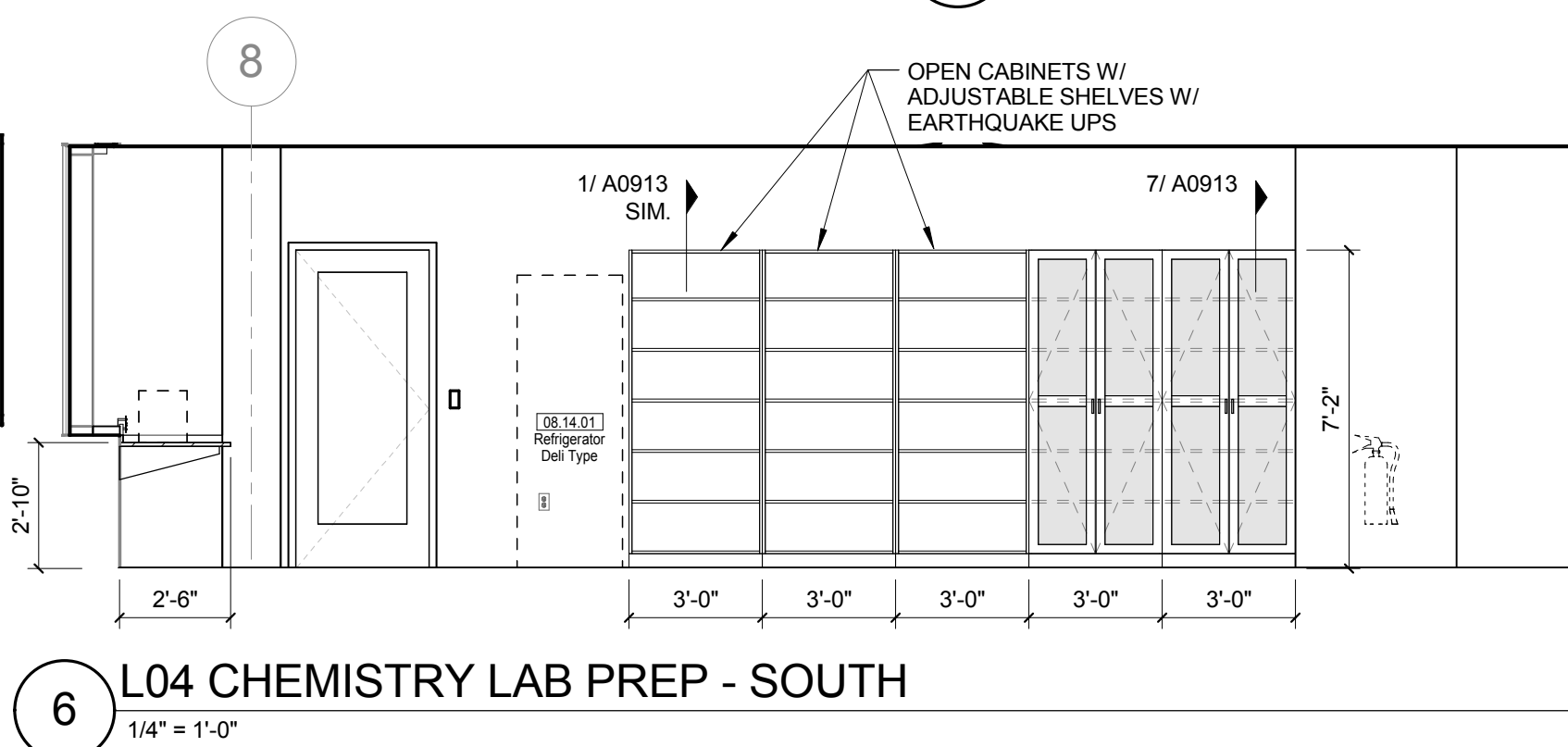
1 L04 GENERAL CHEMISTRY LAB - SOUTH
1/4" = 1'-0"



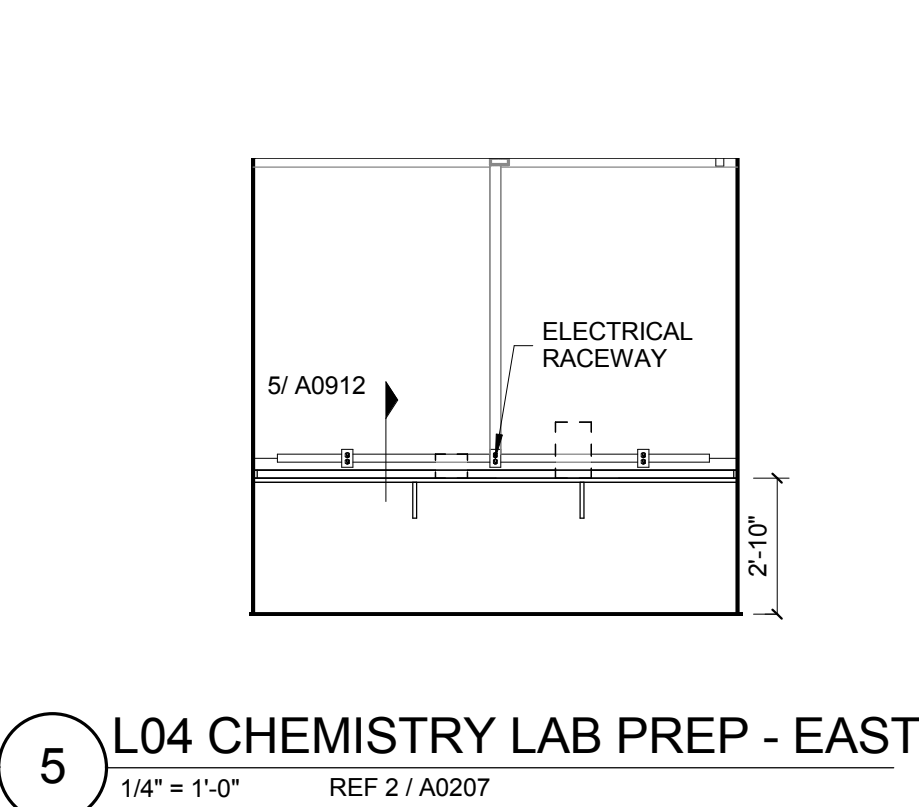
8 L04 ORGANIC CHEMISTRY LAB - EAST
1/4" = 1'-0"



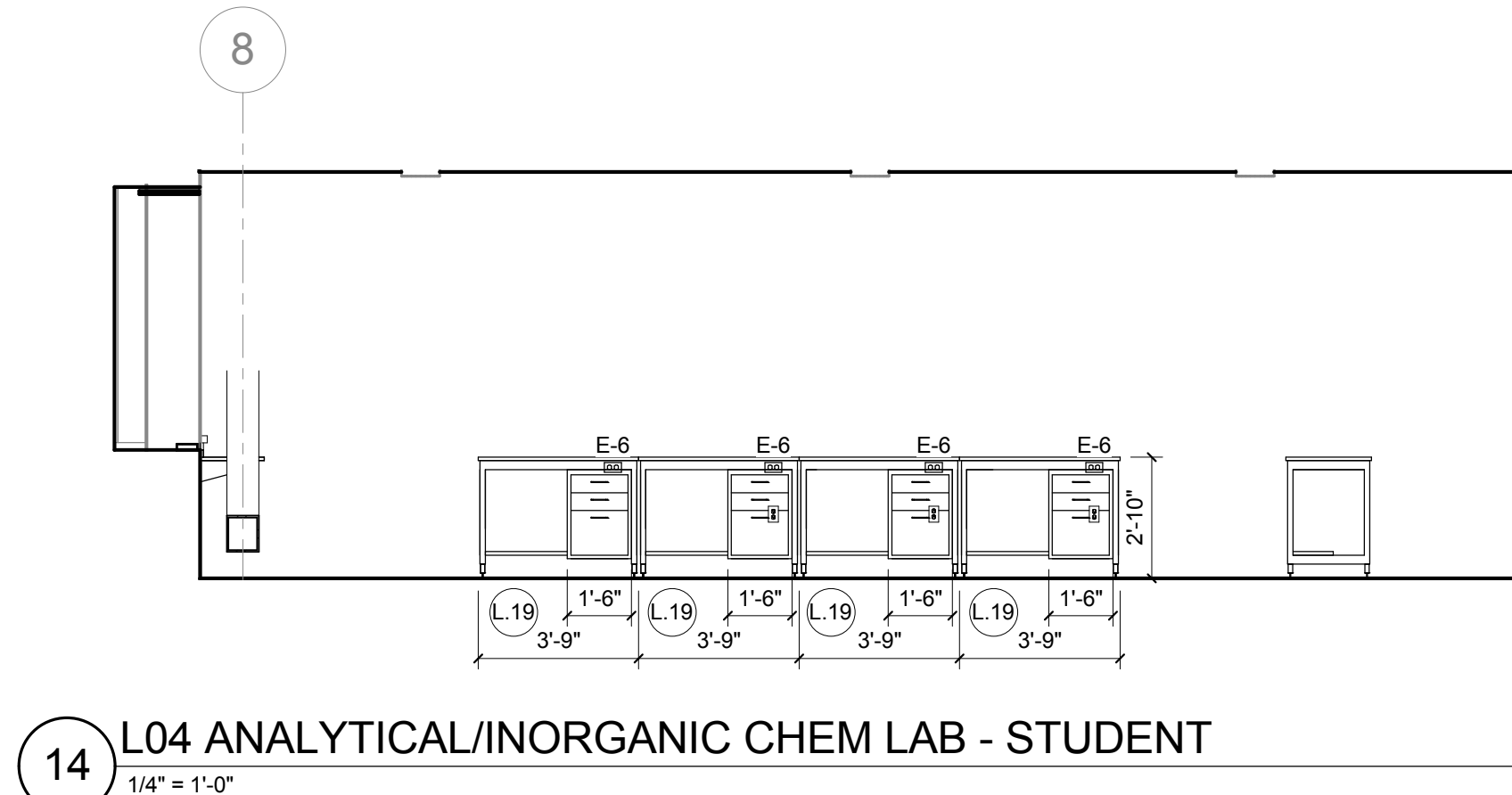
7 L04 CHEMISTRY LAB PREP NORTH
1/4" = 1'-0"



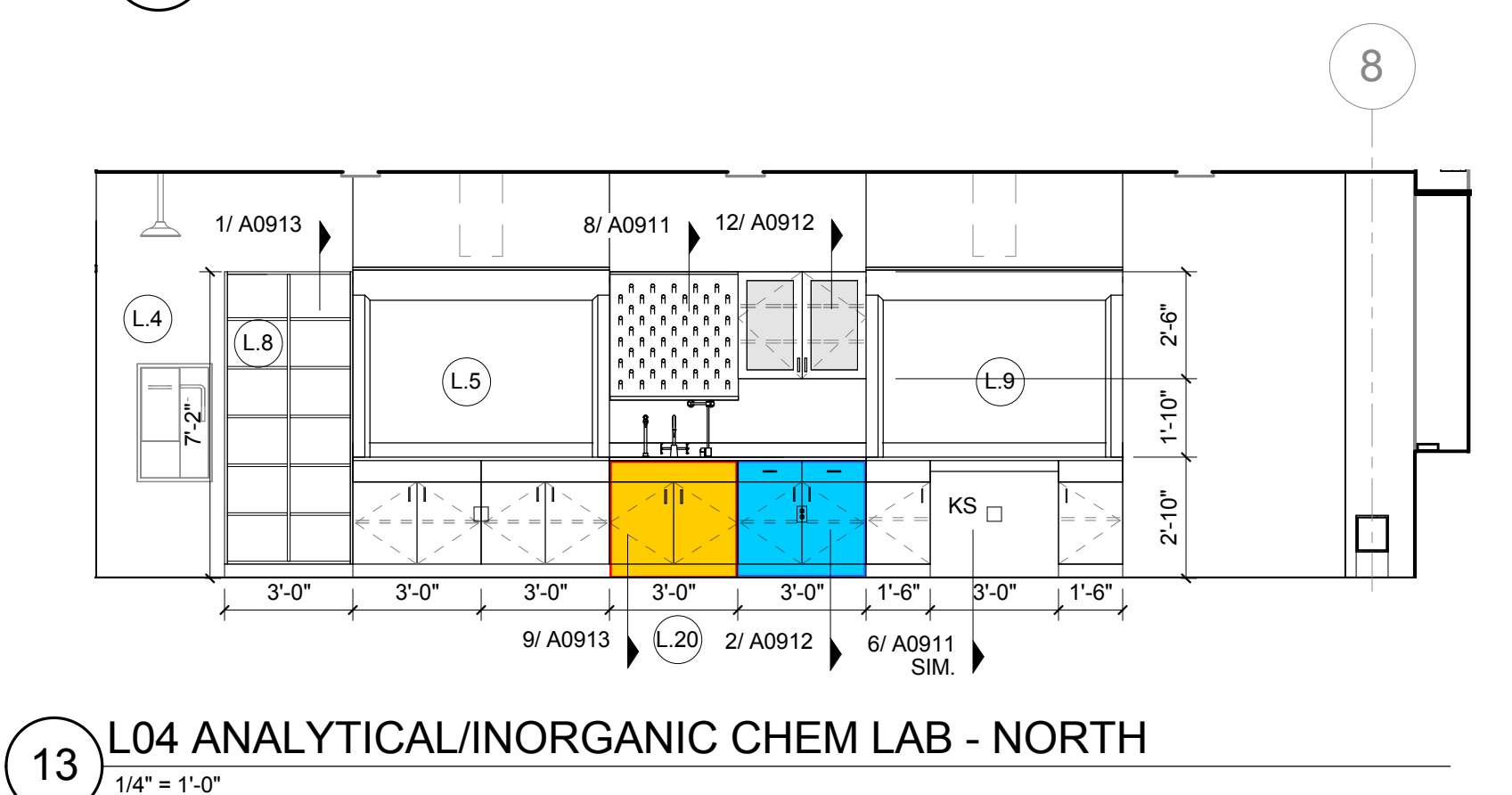
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1/4" = 1'-0"



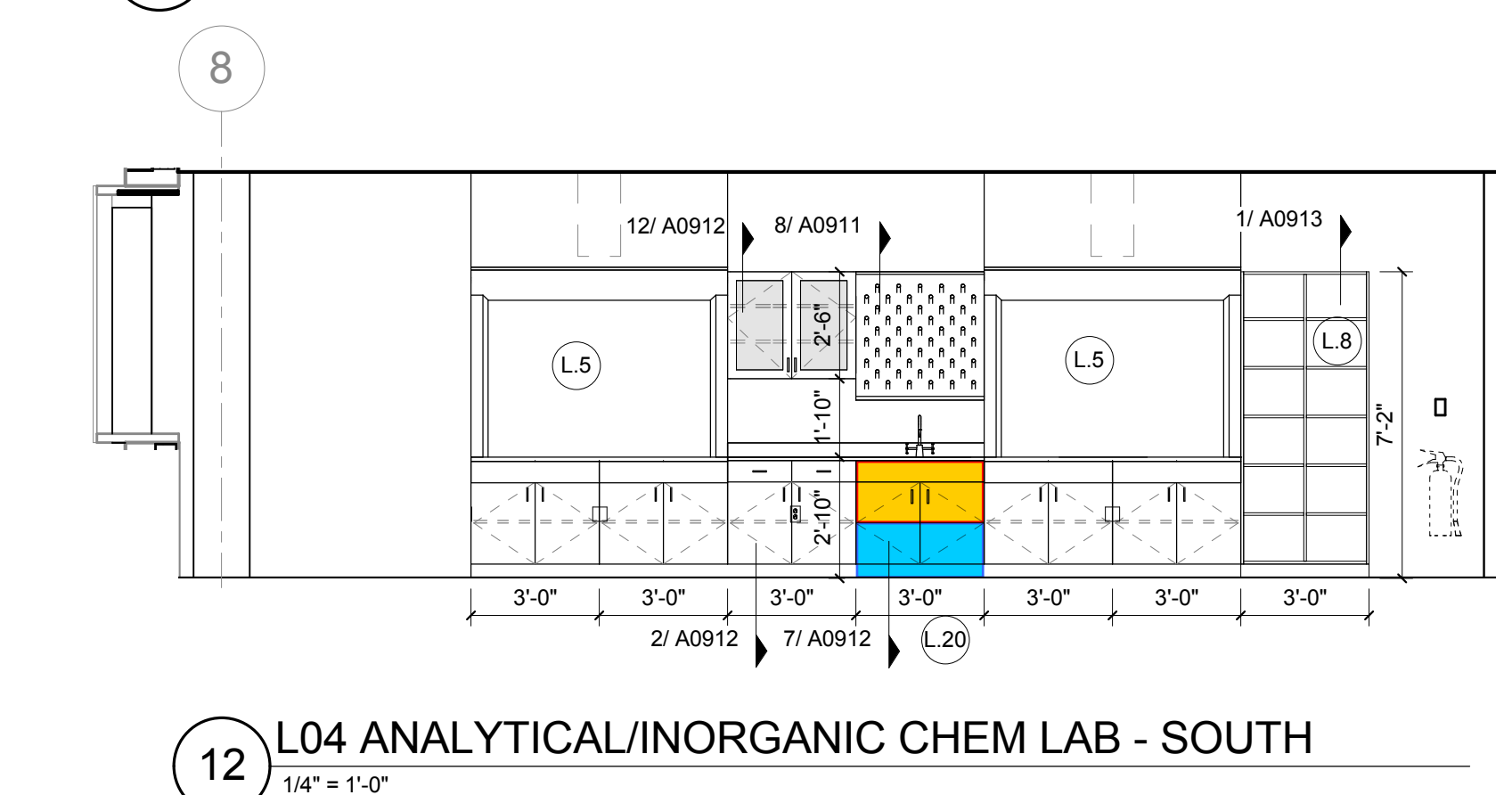
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1/4" = 1'-0" REF 2 / A0207



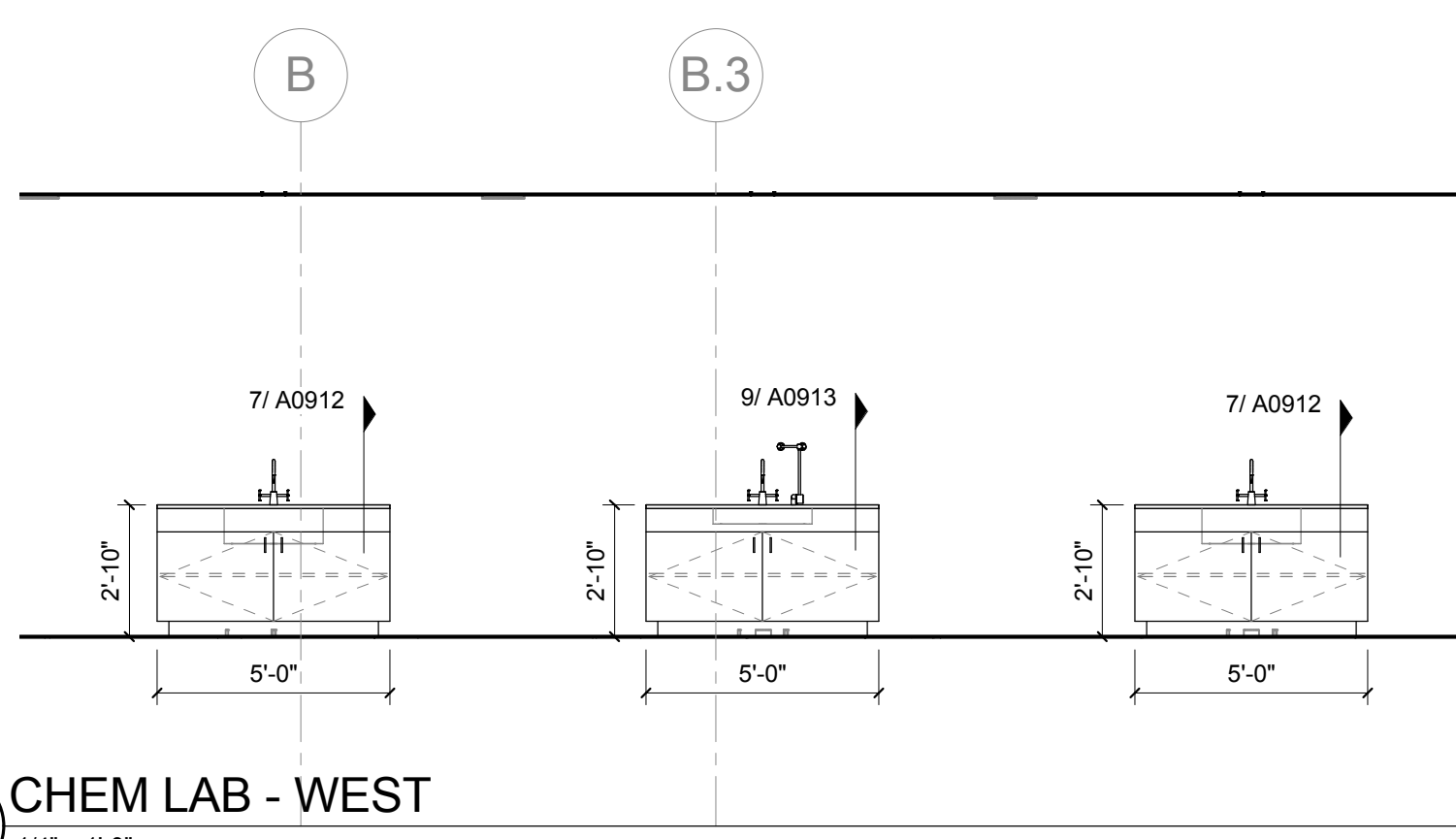
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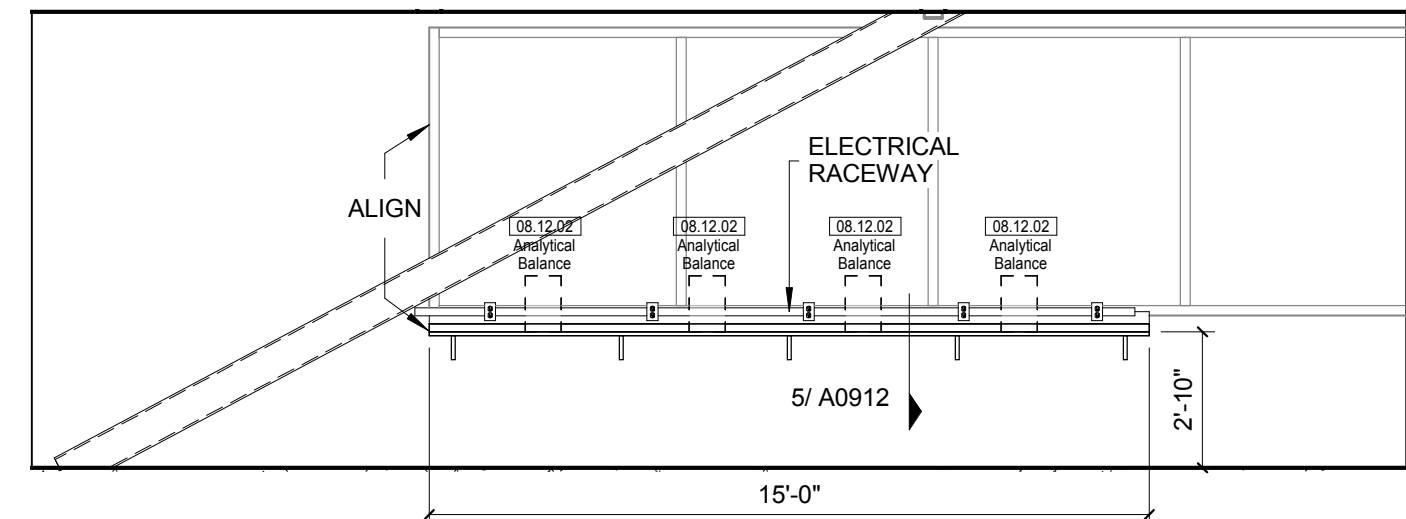
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1/4" = 1'-0"



12 L04 ANALYTICAL/INORGANIC CHEM LAB - SOUTH
1/4" = 1'-0"



16 CHEM LAB - WEST
1/4" = 1'-0"



15 L04 ANALYTICAL/INORGANIC CHEM LAB - EAST
1/4" = 1'-0"

LAB KEYED NOTE LEGEND

- L.1 WRITABLE AND PROJECTABLE SURFACE, DIMENSIONS AS NOTED
- L.2 RECESSED, CEILING MOUNTED PROJECTION SCREEN
- L.3 WALL MOUNTED PROJECTOR ABOVE
- L.4 EMERGENCY SAFETY SHOWER WITH EYEWASH
- L.5 115313 CHEMICAL FUME HOOD W/ STORAGE BELOW. TYPICAL FUME HOOD TO HAVE ELECTRIC AND UTILITIES AS INDICATED.
- L.7 WOOD LAB CASEWORK MICROSCOPE CAB
- L.8 WOOD LAB CASEWORK TALL CABINET WITH OPEN CUBBIES FOR BOOK BAG STORAGE
- L.9 115313 CHEMICAL FUME HOOD - ACCESSIBLE - WITH MOBILE STORAGE BELOW, WHERE SHOWN. TYPICAL FUME HOOD TO HAVE ELECTRIC, AND UTILITIES AS INDICATED.
- L.11 CABS BELOW WHITEBOARD
- L.12 CAMERA FOR SKYPE INTERVIEW
- L.14 GAS CYLINDER STORAGE RACK (CFO), CYLINDERS TO BE "O.F.O."
- L.15 RECESSED MOTORIZED ROOM DARKENING / BLACKOUT SHADES. USE DOUBLE SHADES AT WEST CLASSROOMS LEVEL 02 AND LECTURE HALL. REFER TO REFLECTED CEILING PLANS
- L.16 LCD MONITOR
- L.18 MOBILE LABORATORY CASEWORK SYSTEM. SEE DETAIL 09/A0911.
- L.19 MOVEABLE WOOD LABORATORY CASEWORK: TABLE WITH MODIFIED EPOXY COUNTERTOP, CABINETS SUSPENDED BELOW AS INDICATED.
- L.20 FIXED WOOD LABORATORY CASEWORK: BASE CABINETS, MODIFIED EPOXY COUNTERTOP, WALL CABINETS AS SHOWN ON ELEVATION
- L.21 SEE CEILING PLAN FOR CEILING MOUNTED UNISTRUT SYSTEM SUPPORTED BY STRUCTURE ABOVE
- L.22 8" DEEP X 6" WIDE TRENCH WITH METAL COVER TO RECEIVE FLOOR FINISH TO MATCH ADJACENT FLOOR
- L.23 FLOOR BOX FOR ELECTRICAL & DATA
- L.24 08 6668 DRY ERASE FINISH (AFC-1)
- L.25 PROVIDE BLOCKING FOR FIRE EXTINGUISHER, MOUNTING HEIGHT - 3'-0" TO TOP OF EXTINGUISHER. FIRE EXTINGUISHER & ITS BRACKET BY OWNER.
- L.26 POINT EXHAUST (SNORKEL) FOR SOLDERING. SEE DETAIL 5/ A0913.

LAB UTILITY LEGEND

- CW WATER COLD WATER FAUCET, DECK MOUNTED GOOSENECK WITH SERRATED NOZZLE, VACUUM BREAKER
- W-1 WATER GENERAL MIXING FAUCET, DECK MOUNTED WITH VACUUM BREAKER, SERRATED NOZZLE.
- DI WATER DI WATER FAUCET DECK MOUNTED
- PWS WATER PROCESS COLD WATER SUPPLY
- PWR WATER PROCESS COLD WATER RETURN
- EW WATER EYEWASH, DECK MOUNTED, AUTOFLOW SWING-DOWN
- DH WATER DRENCH HOSE
- G GAS FUME HOOD CONTROL
- V VAC FUME HOOD CONTROL
- V-3 VAC WALL MOUNTED, SINGLE SERRATED OUTLET
- V-1 VAC TURRET BASE, SINGLE SERRATED OUTLET
- V-4 VAC OUTLET FOR BIOSAFETY CABINET CONNECTIONS
- V-5 VAC QUICK DISCONNECT FOR OVERHEAD SERVICE CARRIER
- A AIR FUME HOOD CONTROL
- A-1 AIR TURRET BASE, SINGLE SERRATED OUTLET
- A-3 AIR WALL MOUNTED, SINGLE SERRATED OUTLET
- A-4 AIR OUTLET FOR BIOSAFETY CABINET CONNECTIONS
- A-5 AIR QUICK DISCONNECT FOR OVERHEAD SERVICE CARRIER
- N NITROGEN FUMEHOOD CONTROL
- E ELEC DUPLEX OUTLET (GFI) ON FUME HOOD
- E-1 ELEC COUNTERTOP MOUNTED PEDESTAL, (1) DUPLEX ELECTRICAL OUTLET
- E-2 ELEC COUNTERTOP MOUNTED PEDESTAL, (2) DUPLEX ELECTRICAL OUTLET
- E-3 ELEC WALL MOUNTED, (1) DUPLEX ELECTRICAL OUTLET
- E-5 ELEC DUPLEX ELECTRICAL OUTLET ON OVERHEAD SERVICE CARRIER
- E-6 ELEC DUPLEX ELECTRICAL OUTLET ON TABLE APRON
- D DATA DATA OUTLET
- D-1 DATA COUNTERTOP MOUNTED PEDESTAL, (2) DATA OUTLETS
- D-5 DATA DATA OUTLET ON OVERHEAD SERVICE CARRIER
- D-6 DATA DATA OUTLET ON TABLE APRON
- S SINK LIPPED MODIFIED EPOXY SINK, 9"X3" W OVAL (DROP-IN)
- S-1 SINK LIPPED MODIFIED EPOXY SINK, 25"X15"Wx10"D (DROP-IN)
- S-2 SINK LIPPED MODIFIED EPOXY ADA SINK 25"X15"Wx5"D (DROP-IN)
- S-3 SINK STAINLESS STEEL SINK 25"X15"Wx10"D (DROP-IN)
- S-4 SINK STAINLESS STEEL ADA SINK 25"X15"Wx5"D (DROP-IN)
- S-5 SINK LIPPED MODIFIED EPOXY ADA SINK 18"X15"Wx5"D (DROP-IN)
- S-6 SINK LIPPED MODIFIED EPOXY SINK, 36"X15"Wx10"D (DROP-IN)
- OSC OVERHEAD SERVICE CARRIER. SEE DETAIL 10 / A0913
- PTD PAPER TOWEL DISPENSER

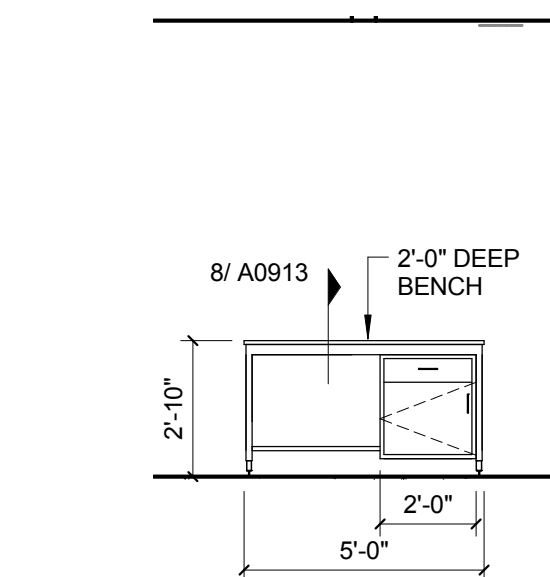
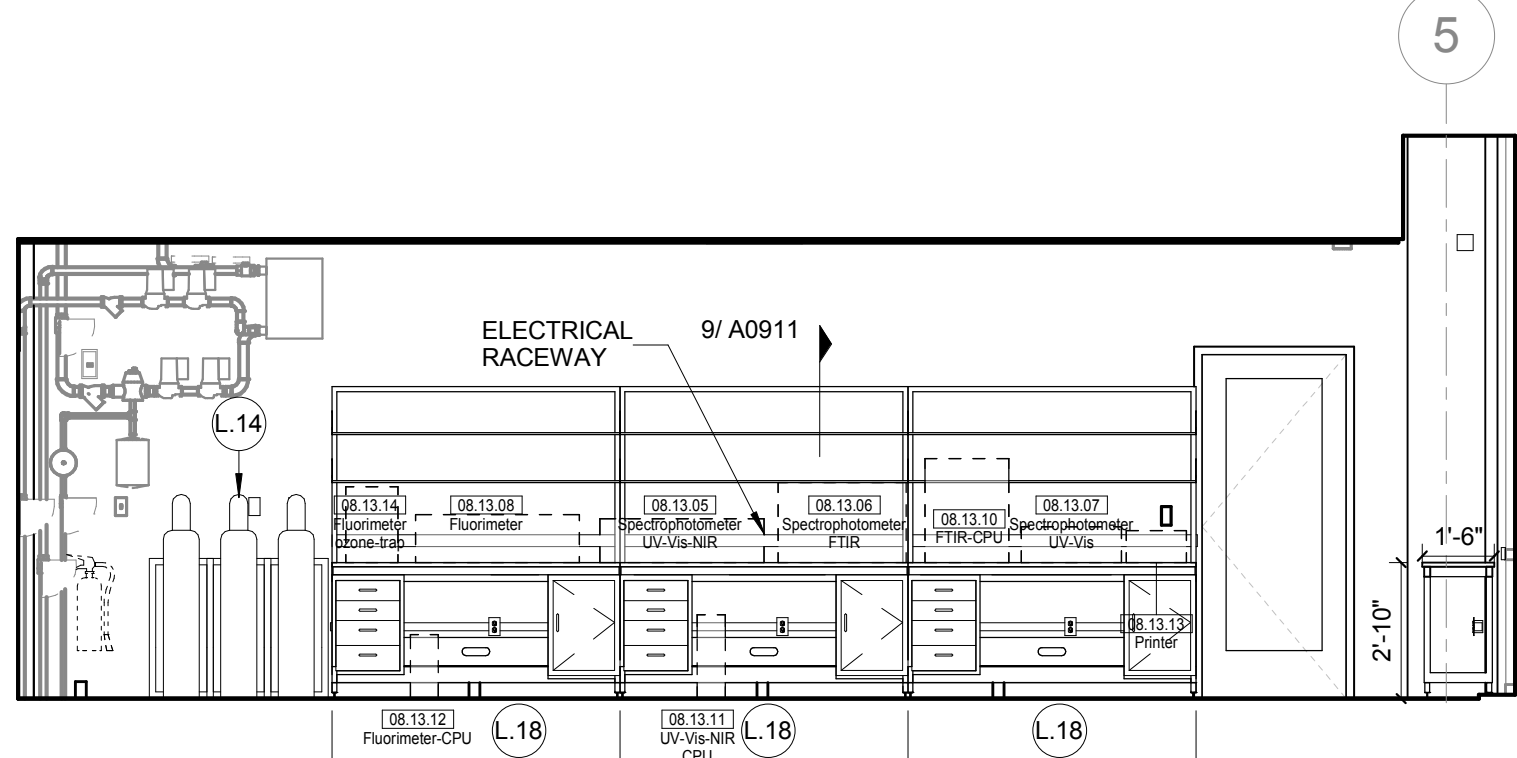
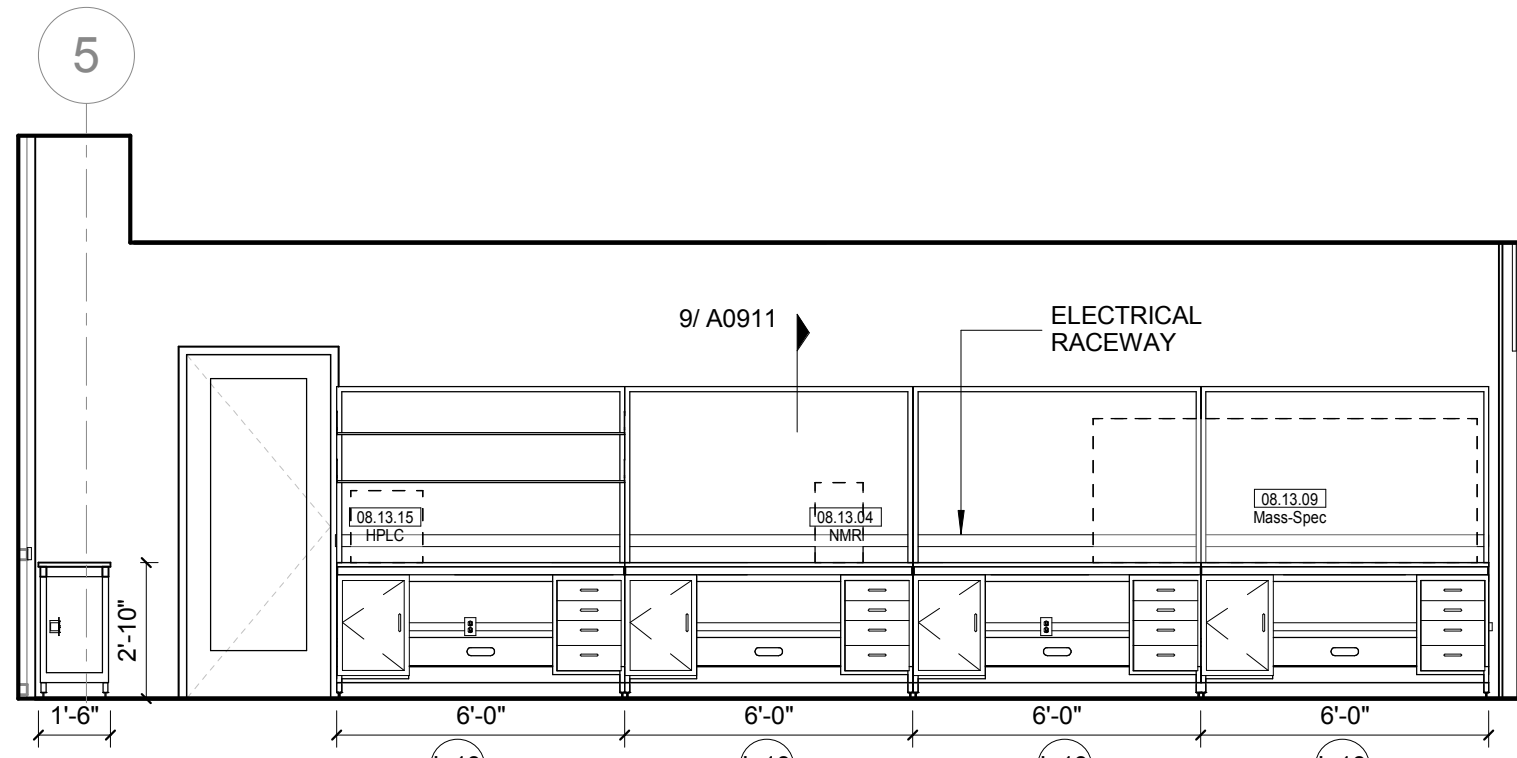
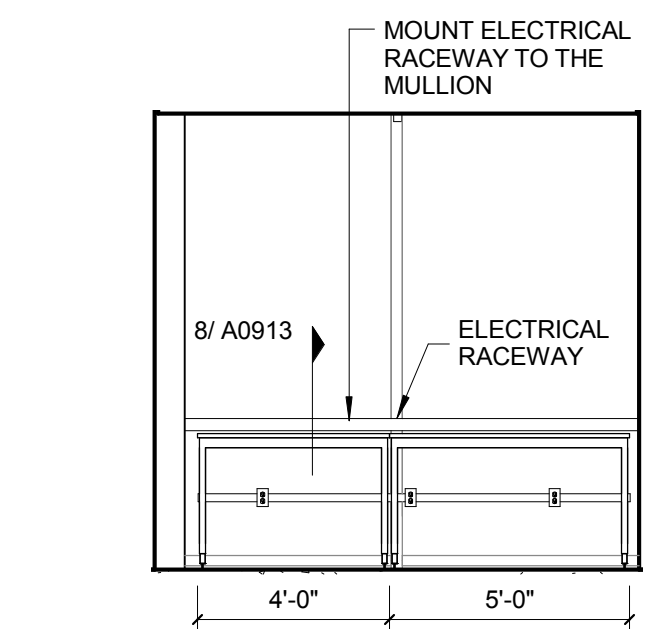
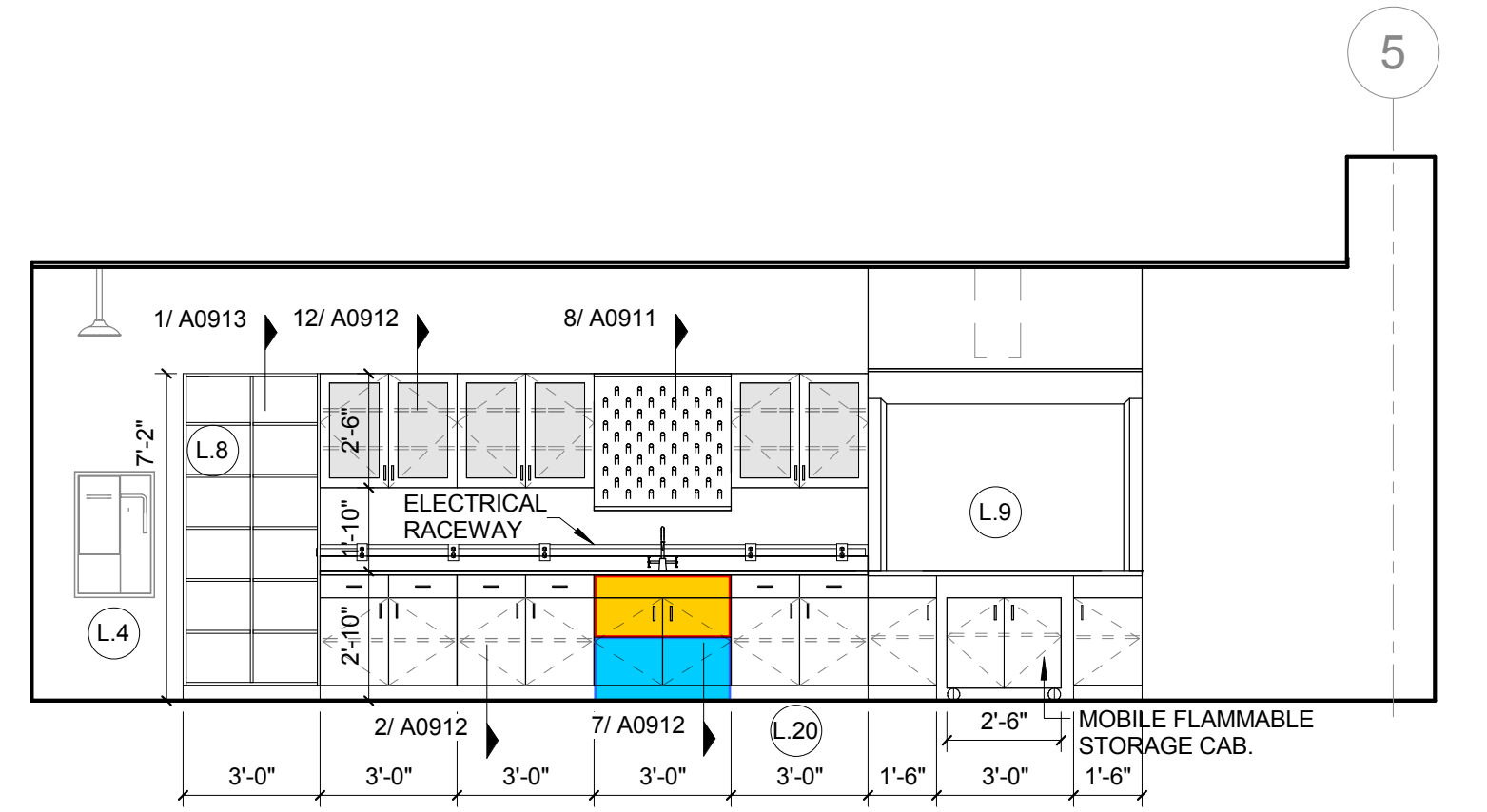
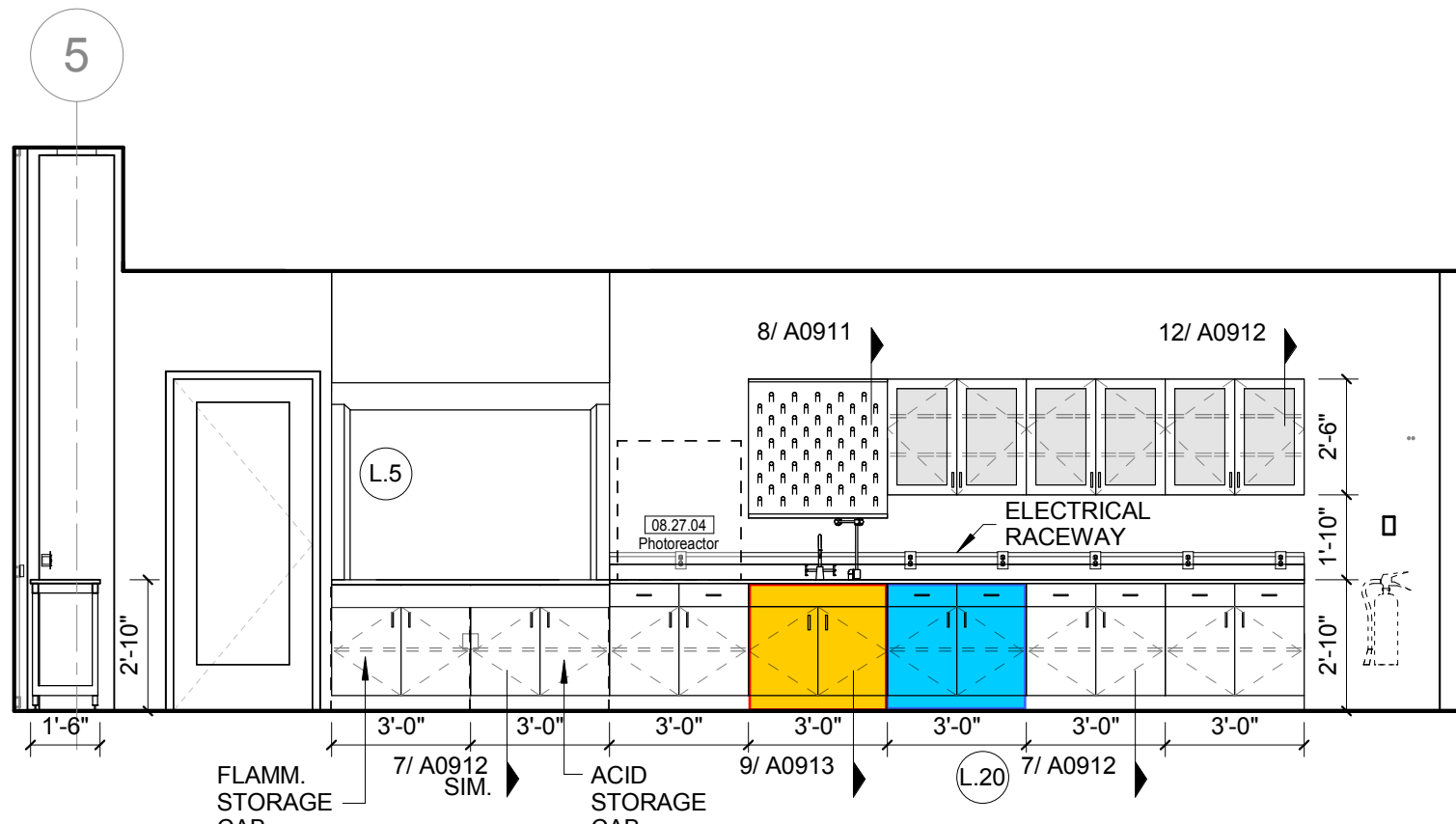
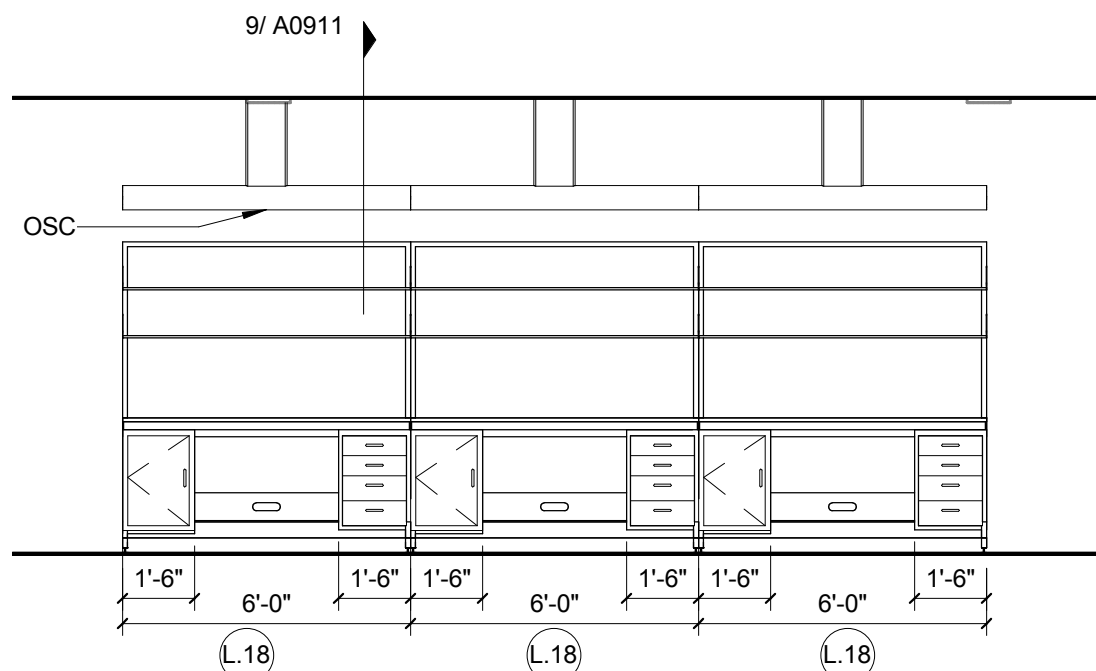
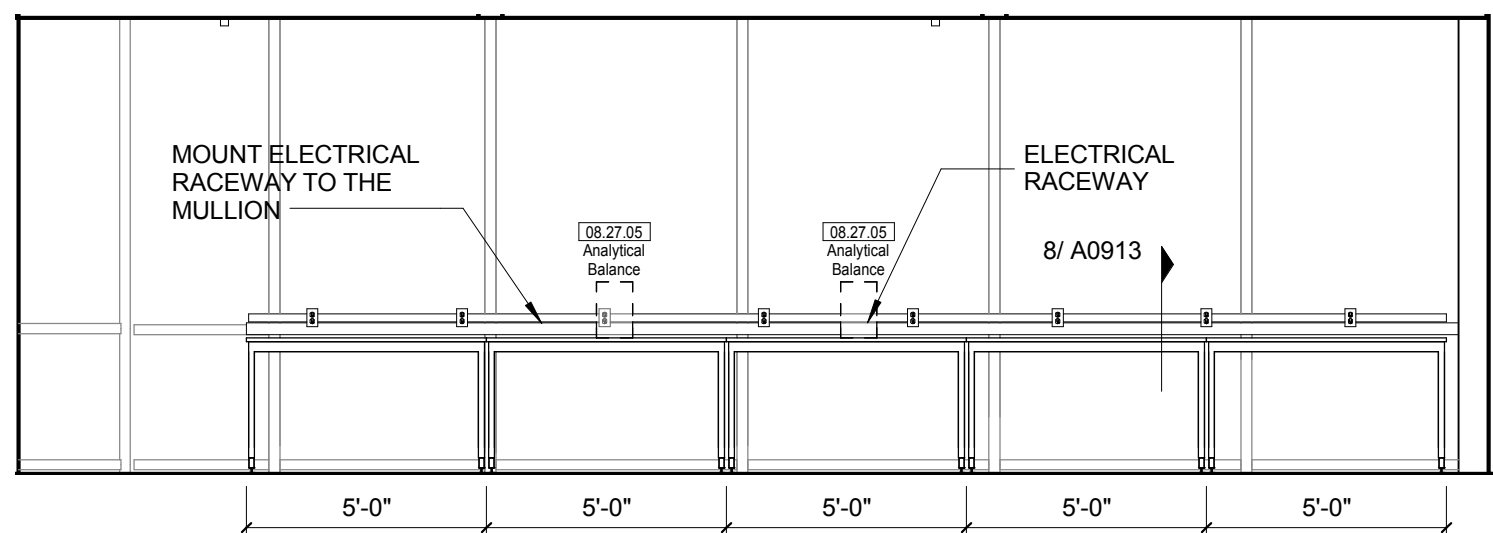
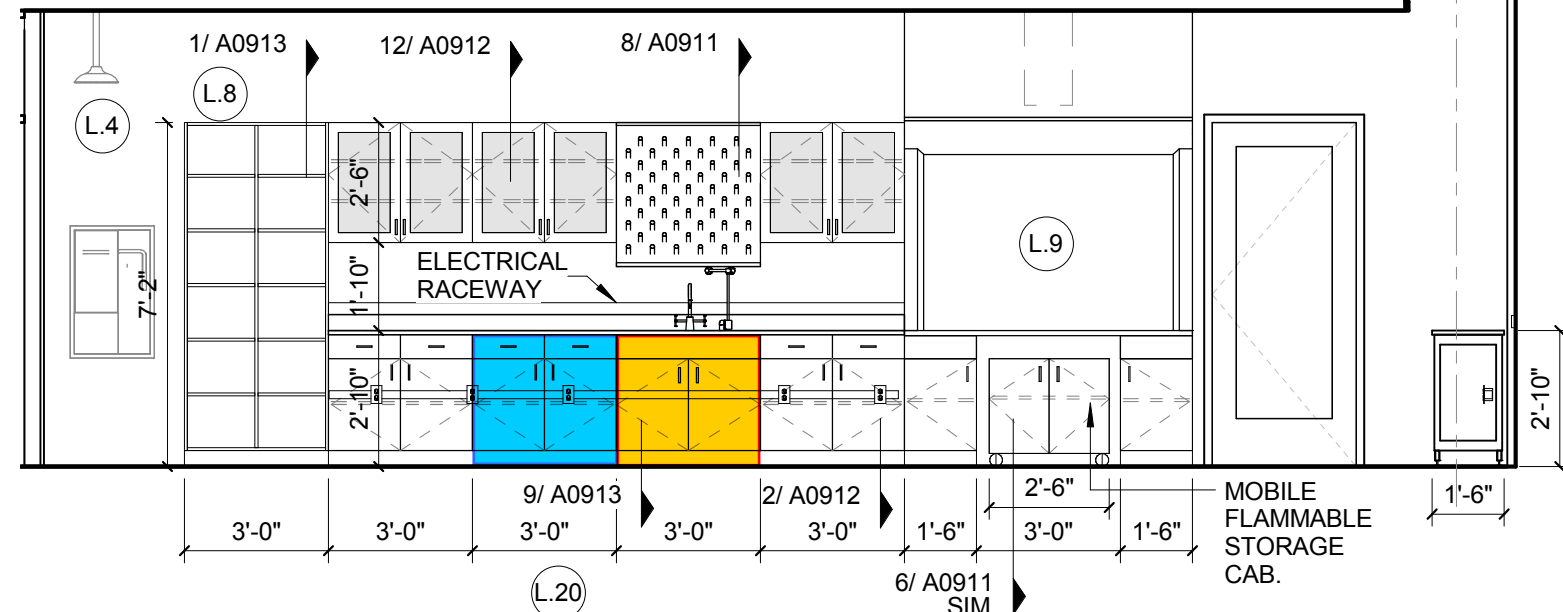
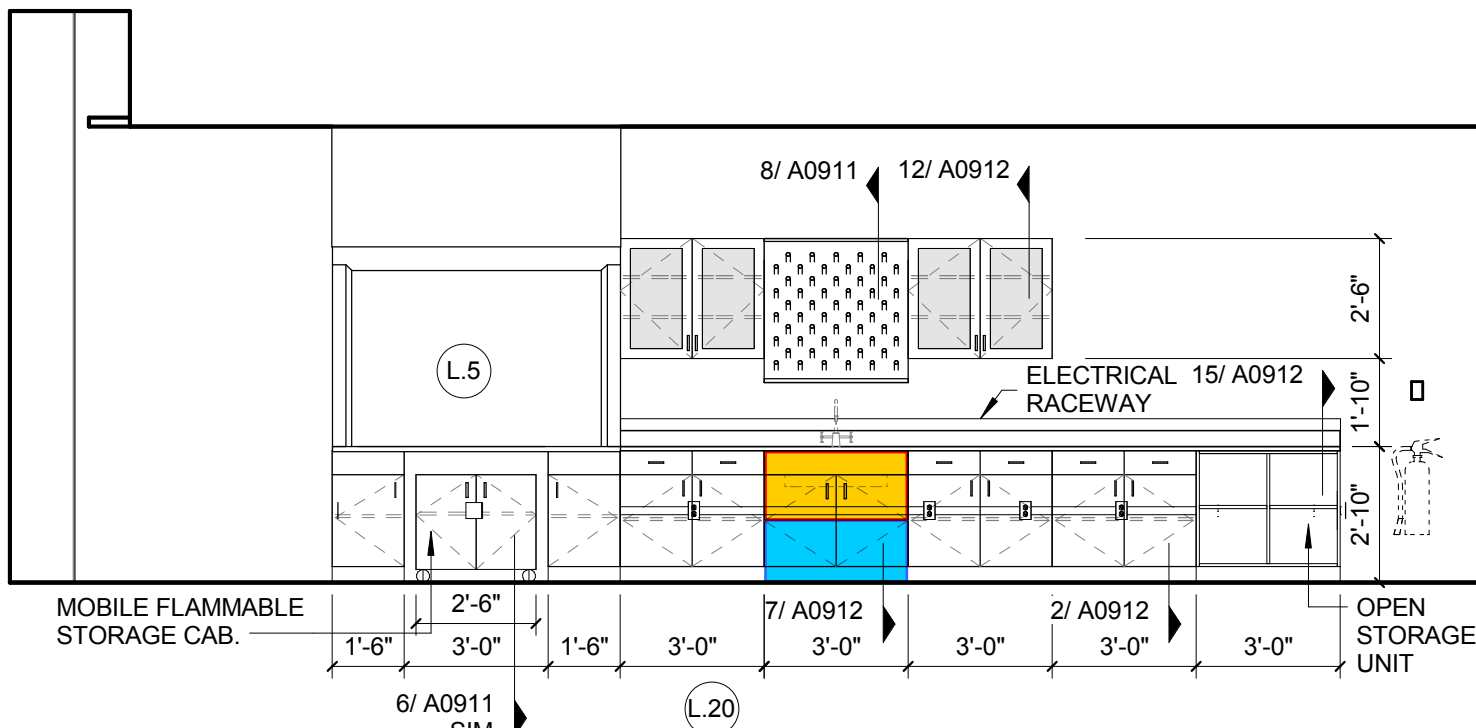
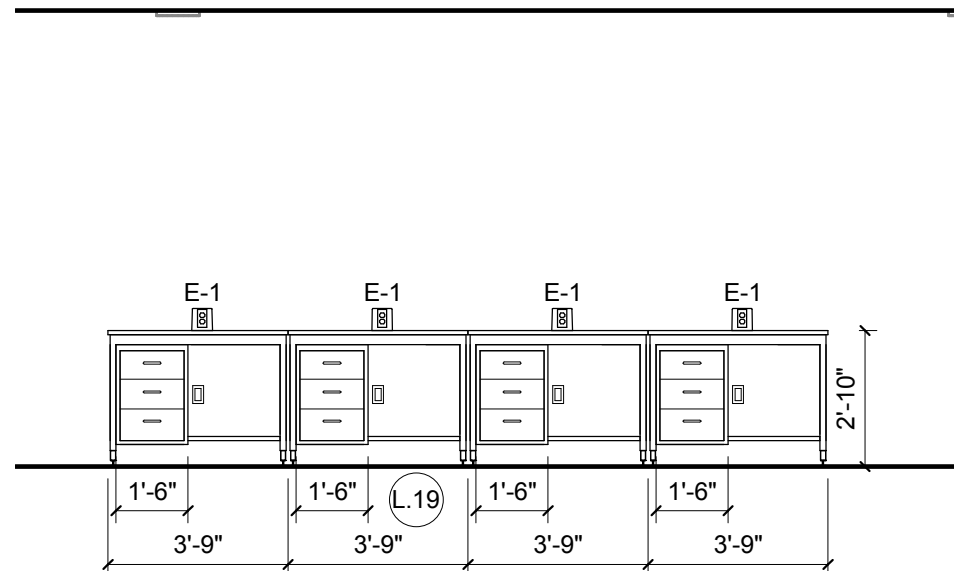
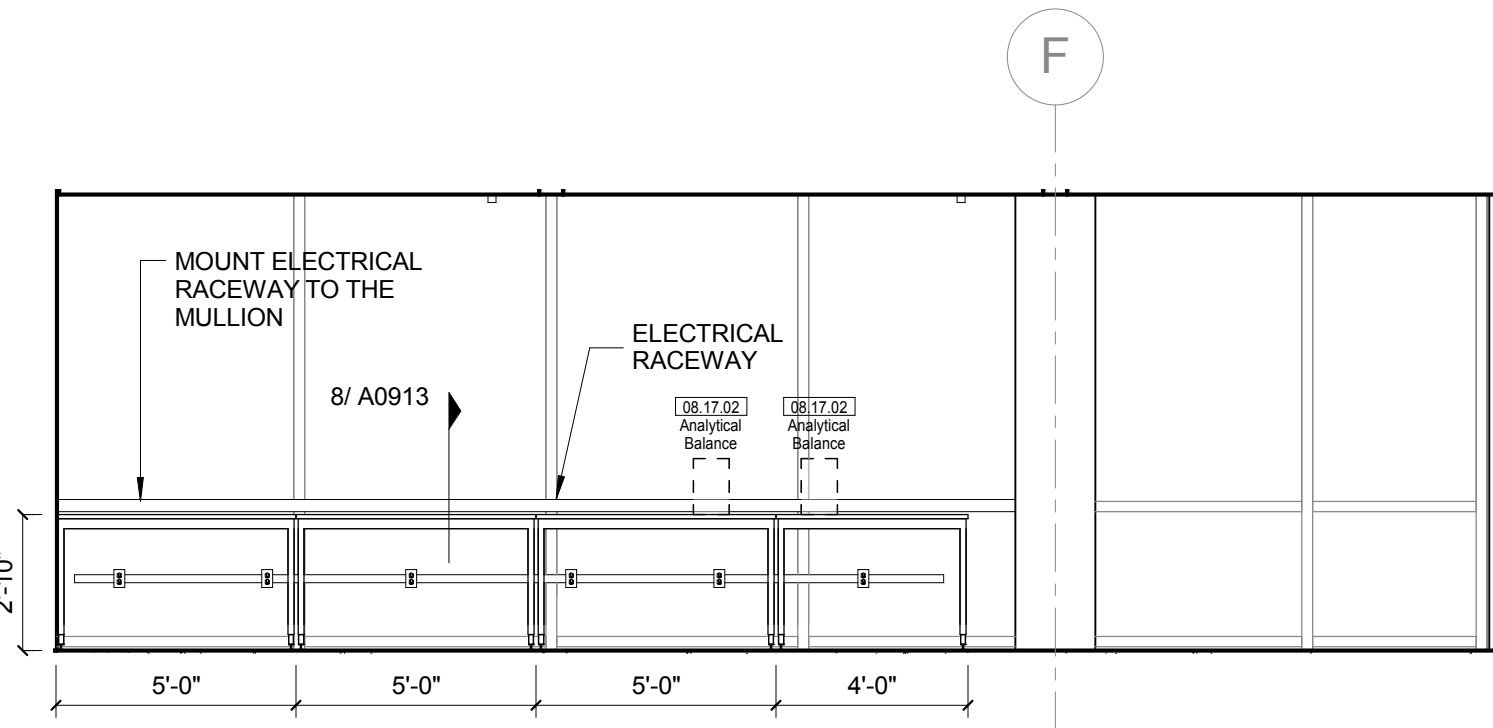
CHEMICAL FUME HOOD LEGEND

- CFH-4 4'-0" WIDE CHEMICAL FUME HOOD
- CFH-6 6'-0" WIDE CHEMICAL FUME HOOD

LAB GENERAL NOTES

- ALL DIMENSIONS ARE TO GWB FACE PARTITION OR COLUMN CENTERLINE U.N.O.
- OWNER FURNISHED OWNER INSTALLED (OFOI) ITEMS ARE SHOWN DASHED FOR REFERENCE ONLY. COORDINATE SIZE AND INSTALLATION REQUIREMENTS WITH OWNER'S REPRESENTATIVE.
- CENTER ALL DRYING RACKS WITH DRIP STOP TROUGHS ABOUT CENTERLINE OF SINKS, U.N.O.
- ALL APRONS AT OPEN KNEE SPACE TO BE 4" U.N.O. PROVIDE APRON OF SOLID WOOD WITH EASED BOTTOM EDGE. FINISH TO MATCH VENER SPECIES. MAINTAIN MINIMUM 2" CLEAR ABOVE FLOOR FINISH.
- CENTER ALL COUNTERTOP MOUNTED UTILITY OUTLETS ON CENTER OF CASEWORK U.N.O.
- ALL SURFACE MOUNTED RACEWAY TO HAVE OUTLETS AT 2'-0" O.C. AND SHALL BE MOUNTED DIRECTLY ABOVE BACKSPASH U.N.O.
- ALL BACKSPASHES TO BE 4" HIGH U.N.O.
- DASHED LINES ON ELEVATIONS INDICATED ADJUSTABLE SHELVING INSIDE CASEWORK.
- PROVIDE FINISHED BACK PANEL AT KNEE SPACES BELOW ALL FUMEHOODS, TYPICAL, SIMILAR TO DETAIL
- PROVIDE FINISHED BACK PANEL AT ALL KNEE SPACES, TYPICAL
- PROVIDE LOCK AND KEY WHERE A CIRCLE NEXT TO DRAWER OR DOOR HANDLE IS SHOWN OR WHERE NOTED
- REFER SHEETS A0914 FOR LABORATORY CASEWORK / MILLWORK DETAILS
- FOR TYPICAL MOUNTING HEIGHTS REF. 1/A0911
- ALL CASEWORK TO BE WOOD U.N.O.
- ALL CASEWORK IS LABORATORY CASEWORK UNLESS NOTED AS MILLWORK OR O.F.O. SEE DIVISION 12-3555 - LABORATORY CASEWORK FOR SPECIFICATIONS.
- SHEETS A114 FOR EQUIPMENT SCHEDULES
- ALL EQUIPMENT ITEMS HAVE A EQUIPMENT TAG - XXX-XXX. SEE SHEETS A114 FOR EQUIPMENT SCHEDULES
- PROVIDE PAPER TOWEL DISPENSER (PTD) AT EACH SINK LOCATION.

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- LAB KEYED NOTE LEGEND**
- L.1 WRITABLE AND PROJECTABLE SURFACE, DIMENSIONS AS NOTED
 - L.2 RECESSED, CEILING MOUNTED PROJECTION SCREEN
 - L.3 WALL MOUNTED PROJECTOR ABOVE
 - L.4 EMERGENCY SAFETY SHOWER WITH EYEWASH
 - L.5 115313 CHEMICAL FUME HOOD W/ STORAGE BELOW. TYPICAL FUME HOOD TO HAVE ELECTRIC AND UTILITIES AS INDICATED.
 - L.7 WOOD LAB CASEWORK MICROSCOPE CAB
 - L.8 WOOD LAB CASEWORK TALL CABINET WITH OPEN CUBBIES FOR BOOK BAG STORAGE.
 - L.9 115313 CHEMICAL FUME HOOD - ACCESSIBLE - WITH MOBILE STORAGE BELOW, WHERE SHOWN. TYPICAL FUME HOOD TO HAVE ELECTRIC, AND UTILITIES AS INDICATED.
 - L.11 CABS BELOW WHITEBOARD
 - L.12 CAMERA FOR SKYPE INTERVIEW
 - L.14 GAS CYLINDER STORAGE RACK (CFCI), CYLINDERS TO BE "D" OR "F"
 - L.15 RECESSED MOTORIZED ROOM DARKENING / BLACKOUT SHADES. USE DOUBLE SHADES AT WEST CLASSROOMS LEVEL 02 AND LECTURE HALL. REFER TO REFLECTED CEILING PLANS
 - L.16 LCD MONITOR
 - L.18 MOBILE LABORATORY CASEWORK SYSTEM. SEE DETAIL 09/A0911.
 - L.19 MOVEABLE WOOD LABORATORY CASEWORK: TABLE WITH MODIFIED EPOXY COUNTERTOP, CABINETS SUSPENDED BELOW AS INDICATED.
 - L.20 FIXED WOOD LABORATORY CASEWORK - BASE CABINETS, MODIFIED EPOXY COUNTERTOP, WALL CABINETS AS SHOWN ON ELEVATION
 - L.21 SEE CEILING PLAN FOR CEILING MOUNTED UNISTRUT SYSTEM SUPPORTED BY STRUCTURE ABOVE
 - L.22 8" DEEP x 6" WIDE TRENCH WITH METAL COVER TO RECEIVE FLOOR FINISH TO MATCH ADJACENT FLOOR
 - L.23 FLOOR BOX FOR ELECTRICAL & DATA
 - L.24 09/6668 DRY ERASE FINISH (AWC-1)
 - L.25 PROVIDE BLOCKING FOR FIRE EXTINGUISHER, MOUNTING HEIGHT - 3'-0" TO TOP OF EXTINGUISHER. FIRE EXTINGUISHER & ITS BRACKET BY OWNER.
 - L.26 POINT EXHAUST (SNORKEL) FOR SOLDERING. SEE DETAIL 5/ A0913.

- LAB UTILITY LEGEND**
- CW WATER COLD WATER FAUCET, DECK MOUNTED GOOSENECK WITH SERRATED NOZZLE, VACUUM BREAKER
 - W-1 WATER GENERAL MIXING FAUCET, DECK MOUNTED WITH VACUUM BREAKER, SERRATED NOZZLE.
 - DI WATER DI WATER FAUCET DECK MOUNTED
 - PWS WATER PROCESS COLD WATER SUPPLY
 - PWR WATER PROCESS COLD WATER RETURN
 - EW WATER EYEWASH, DECK MOUNTED, AUTOFLOW SWING-DOWN
 - DH WATER DRENCH HOSE
 - G GAS FUME HOOD CONTROL
 - V VAC FUME HOOD CONTROL
 - V-3 VAC WALL MOUNTED, SINGLE SERRATED OUTLET
 - V-1 VAC TURRET BASE, SINGLE SERRATED OUTLET
 - V-4 VAC OUTLET FOR BIOSAFETY CABINET CONNECTIONS
 - V-5 VAC QUICK DISCONNECT FOR OVERHEAD SERVICE CARRIER
 - A AIR FUME HOOD CONTROL
 - A-1 AIR TURRET BASE, SINGLE SERRATED OUTLET
 - A-3 AIR WALL MOUNTED, SINGLE SERRATED OUTLET
 - A-4 AIR OUTLET FOR BIOSAFETY CABINET CONNECTIONS
 - A-5 AIR QUICK DISCONNECT FOR OVERHEAD SERVICE CARRIER
 - N NITROGEN FUMEHOOD CONTROL
 - ELEC DUPLEX OUTLET (GF) ON FUME HOOD
 - E-1 ELEC COUNTERTOP MOUNTED PEDESTAL, (1) DUPLEX ELECTRICAL OUTLET
 - E-2 ELEC COUNTERTOP MOUNTED PEDESTAL, (2) DUPLEX ELECTRICAL OUTLET
 - E-3 ELEC WALL MOUNTED, (1) DUPLEX ELECTRICAL OUTLET
 - E-5 ELEC DUPLEX ELECTRICAL OUTLET ON OVERHEAD SERVICE CARRIER
 - E-6 ELEC DUPLEX ELECTRICAL OUTLET ON TABLE APRON
 - D DATA DATA OUTLET
 - D-1 DATA COUNTERTOP MOUNTED PEDESTAL, (2) DATA OUTLETS
 - D-5 DATA DATA OUTLET ON OVERHEAD SERVICE CARRIER
 - D-6 DATA DATA OUTLET ON TABLE APRON
 - S-1 SINK LIPPED MODIFIED EPOXY ADA SINK, 25"Lx15"Wx10"D (DROP-IN)
 - S-2 SINK LIPPED MODIFIED EPOXY ADA SINK, 25"Lx15"Wx6"D (DROP-IN)
 - S-3 SINK STAINLESS STEEL SINK, 25"Lx15"Wx10"D (DROP-IN)
 - S-4 SINK STAINLESS STEEL ADA SINK, 25"Lx15"Wx6"D (DROP-IN)
 - S-5 SINK LIPPED MODIFIED EPOXY ADA SINK, 18"Lx15"Wx5"D (DROP-IN)
 - S-6 SINK LIPPED MODIFIED EPOXY ADA SINK, 36"Lx15"Wx10"D (DROP-IN)
 - OSC OVERHEAD SERVICE CARRIER. SEE DETAIL 10 / A0913
 - PTD PAPER TOWEL DISPENSER

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 - PROVIDE PAPER TOWEL DISPENSER (PTD) AT EACH SINK LOCATION.



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PART OF EXHIBIT-A

CONFORMED SET 01 JUL 2016

ISSUED FOR CONSTRUCTION (BP3) 15 MAR 2016

No. Description Date

Drawing Title:

**INTERIOR LAB
ELEVATIONS LEVEL 04**

Project No.: 04561.01 Checked by:

A0618

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