

Architect's Supplemental Instructions

Architect's Project No:
04561.01

Architect's ASI No: 042

Project:
Webster University
Interdisciplinary Science
Building

Date Issued: 12/19/2016

Contract Date:

Reason Code: 05 A/E 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:

Sheets – A0204, A0614, P0202.A
<End of Drawing List>

St. Louis
Baltimore
Boston
Buffalo
Calgary
Chicago
Houston
Los Angeles
Mumbai
New York
Phoenix
San Francisco
Shanghai
Toronto
Vancouver
Victoria
Washington DC

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

Architect's Supplemental Instructions

Page 2

Description:

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

Microbio / Plant Research Lab 283:

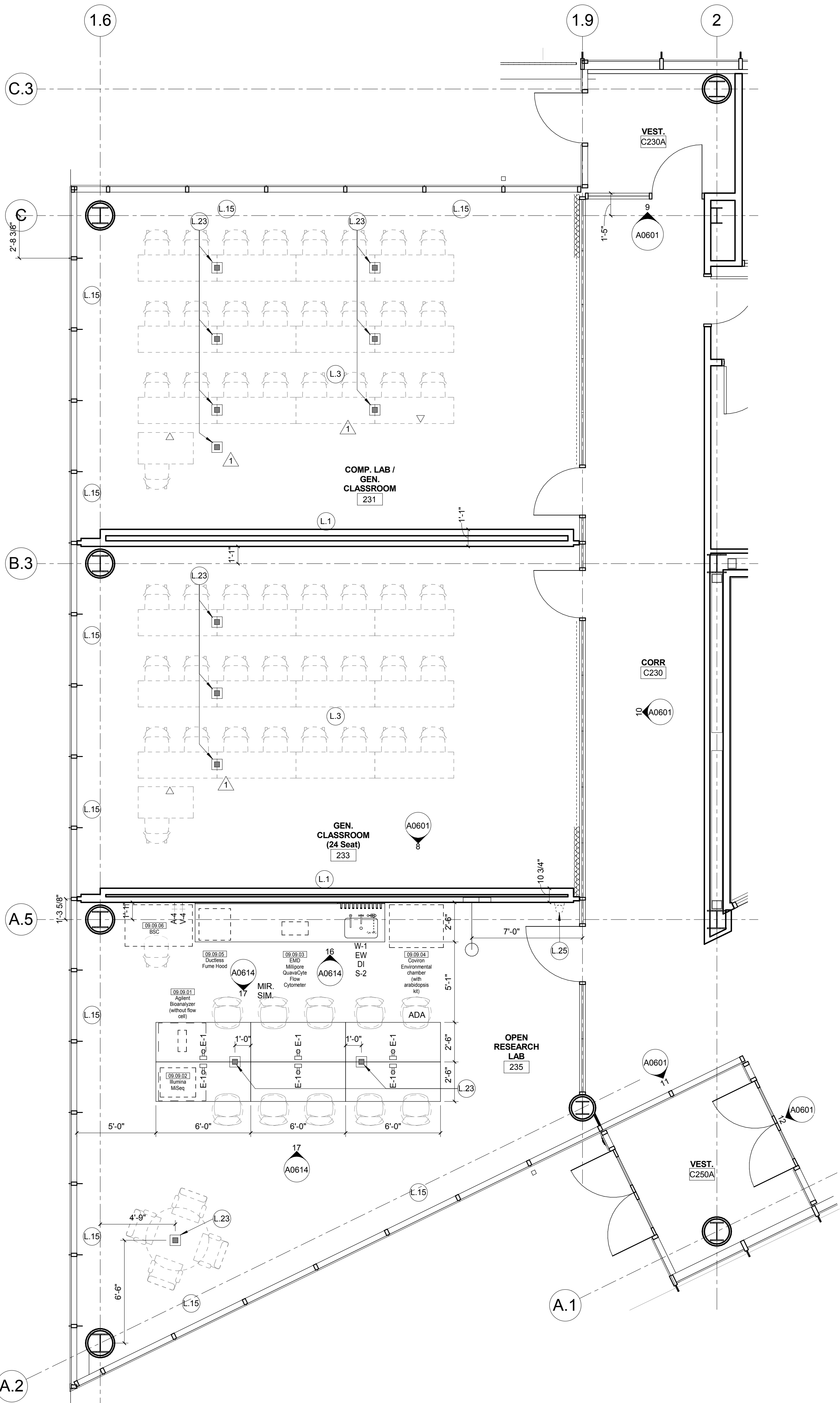
Extended laboratory compressed air and laboratory vacuum piping to serve BSC Class 1 (08.30.02) on south wall, along column D

Issued by Architect:

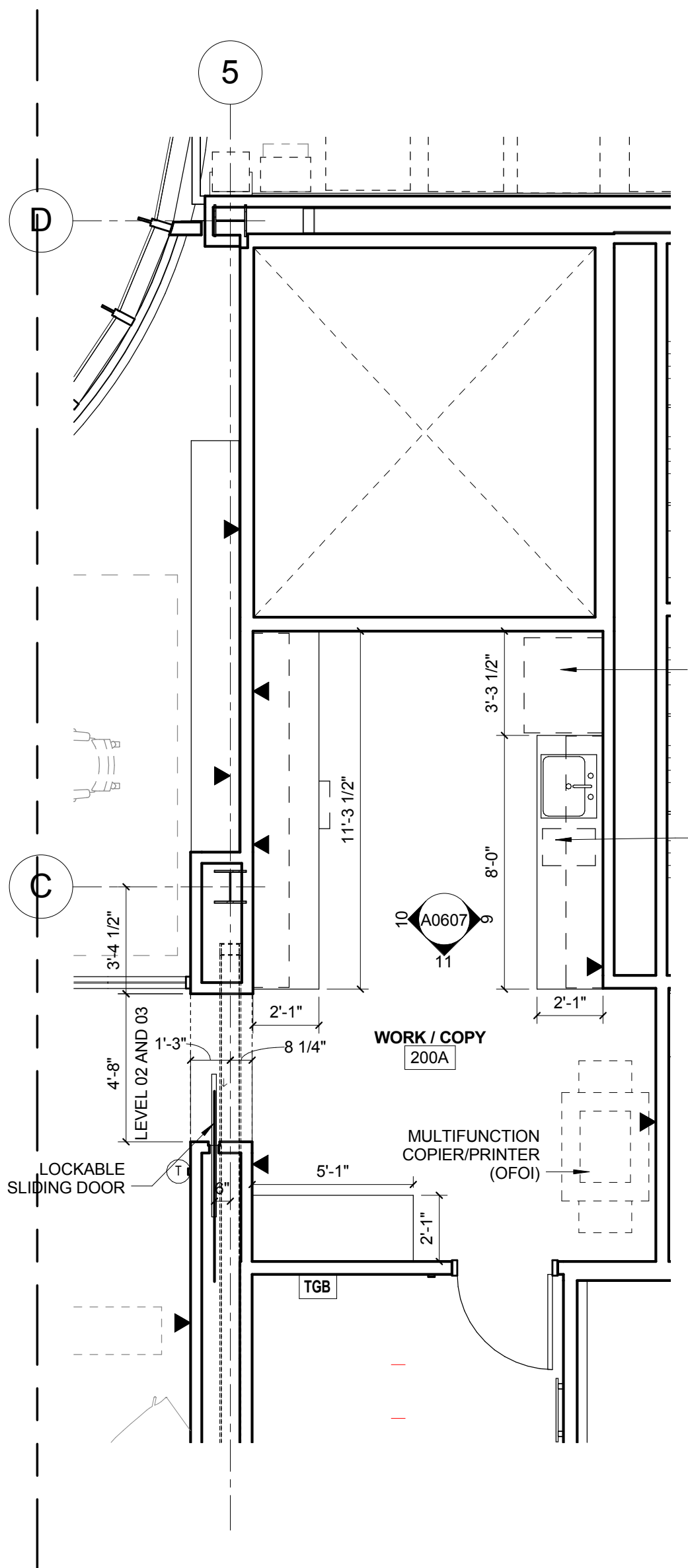
Kelvin Patel, CannonDesign
Michael Whitworth, WES

Accepted by Contractor:

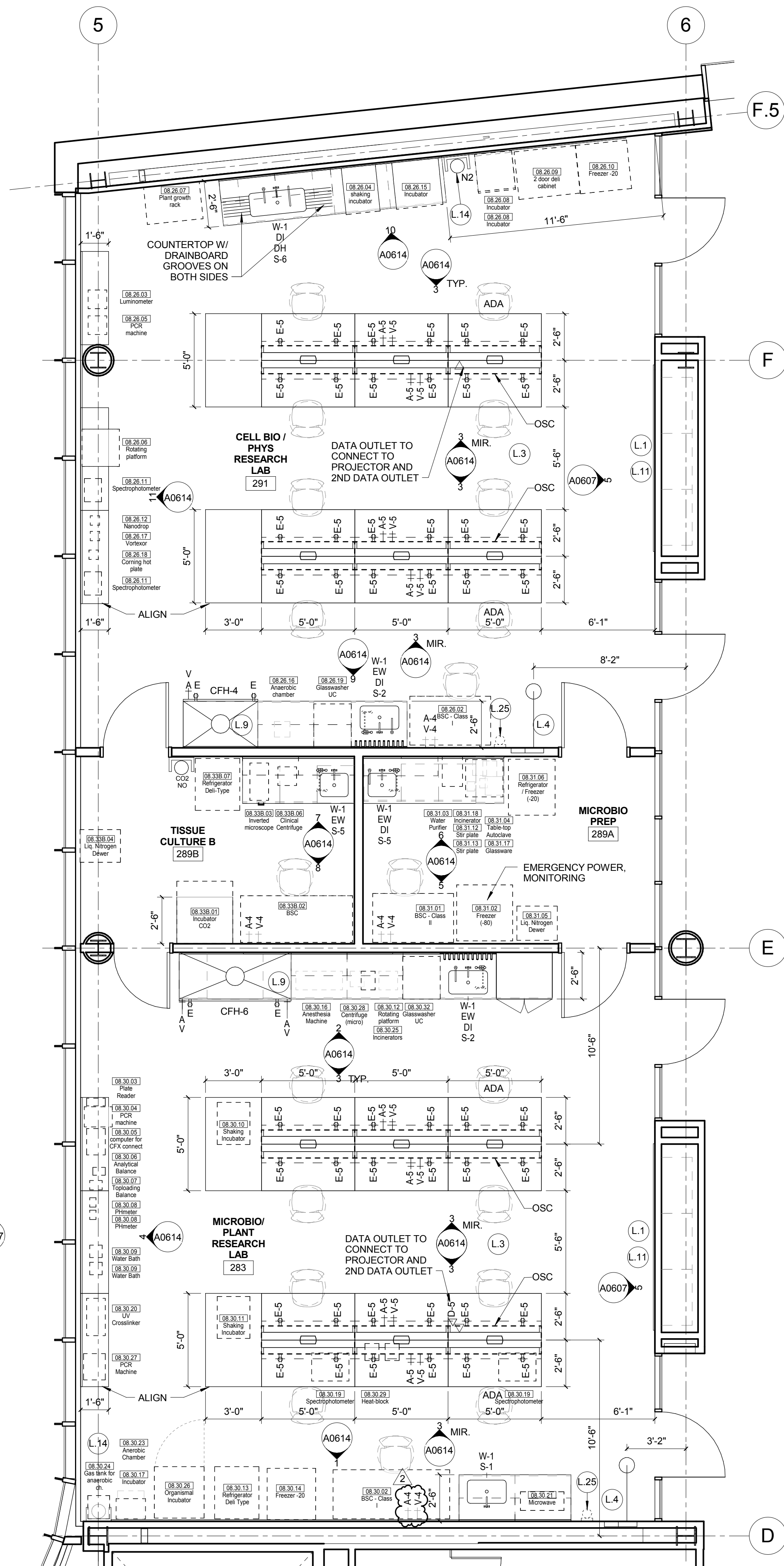
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12/10/2016 4:23:41 PM



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 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 (CFOI), CYLINDERS TO BE "OFOI"
- 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.
- OWNER FURNISHED OWNER INSTALLED (OFOI) ITEMS ARE SHOWN DASHED FOR REFERENCE ONLY. COORDINATE SIZE AND INSTALLATION REQUIREMENTS WITH OWNER'S REPRESENTATIVE.
- 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 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.



Webster University
Interdisciplinary Science
Building

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St. Louis, MO 63105
314.862.0070

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7722 Big Bend Blvd
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314.644.5700

Webb Engineering Services, Inc.
Plumbing & Fire Protection
1400 S. 3rd Street, Suite 201
St. Louis, MO 63104
314.568.0600

2	ASI-042	19 DEC 2016
1	ADDENDUM 3-2	15 APR 2016
-	ISSUED FOR CONSTRUCTION (BPS)	15 MAR 2016
No.	Description	Date

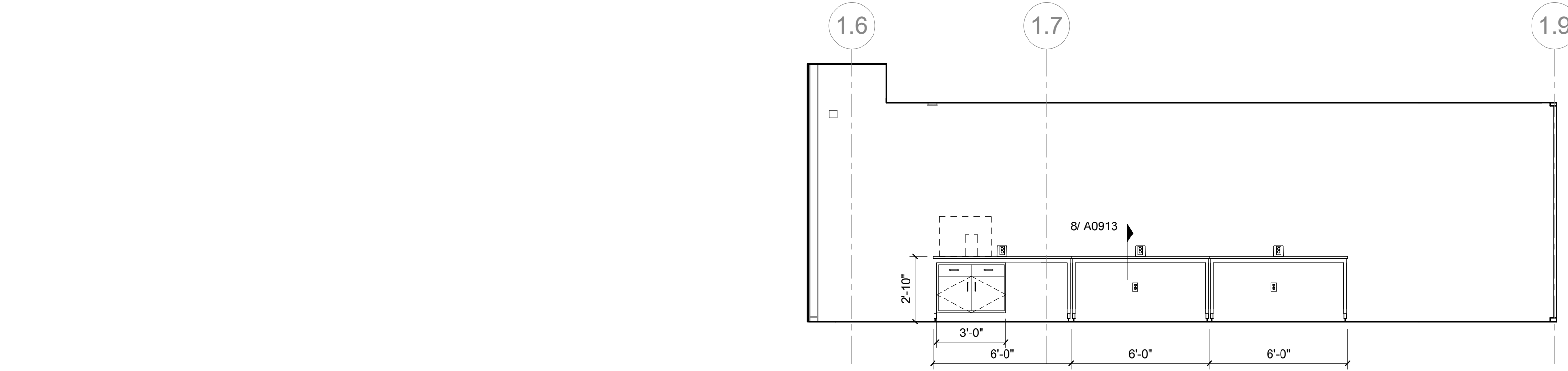
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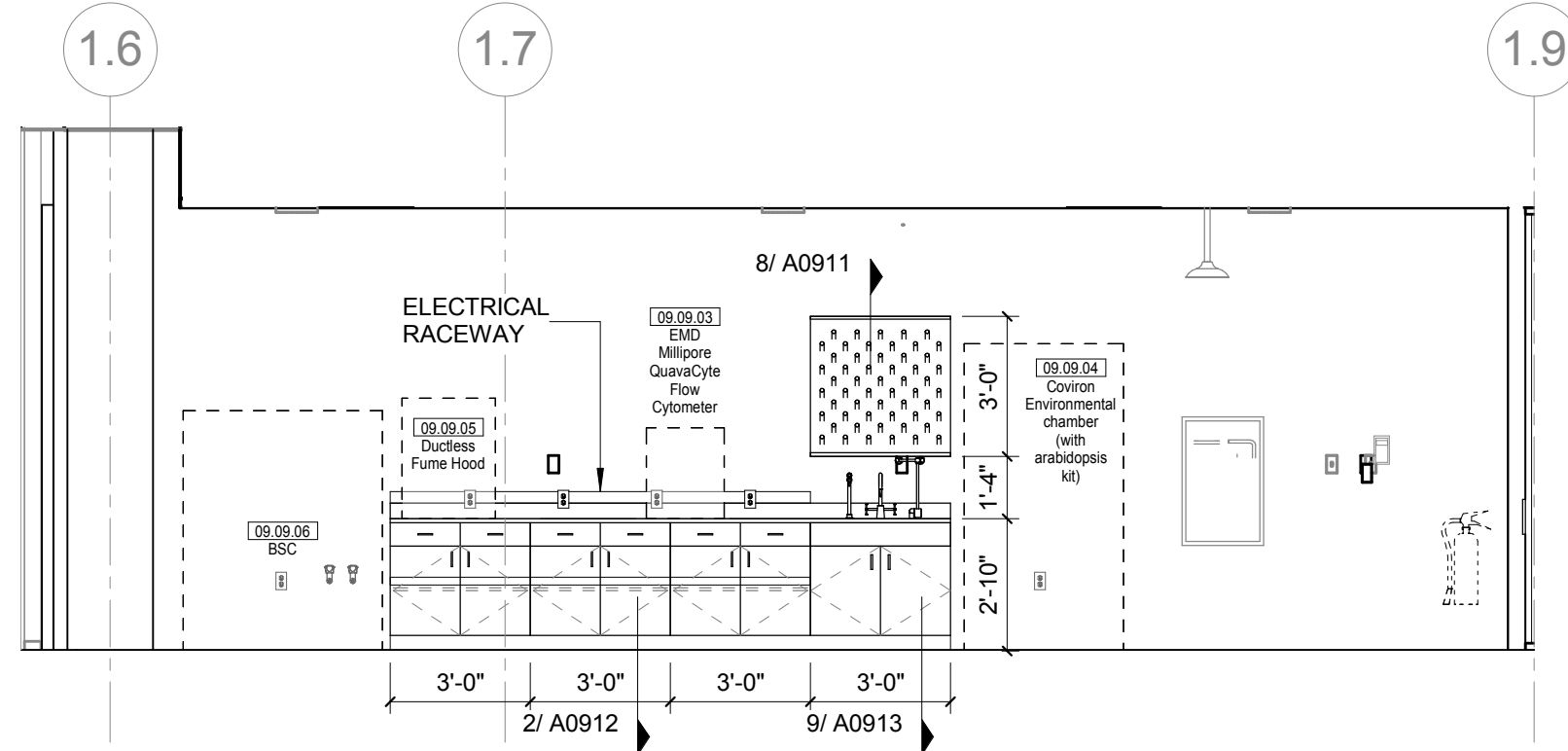
Project No.: 04561.01 Checked by:

A0204

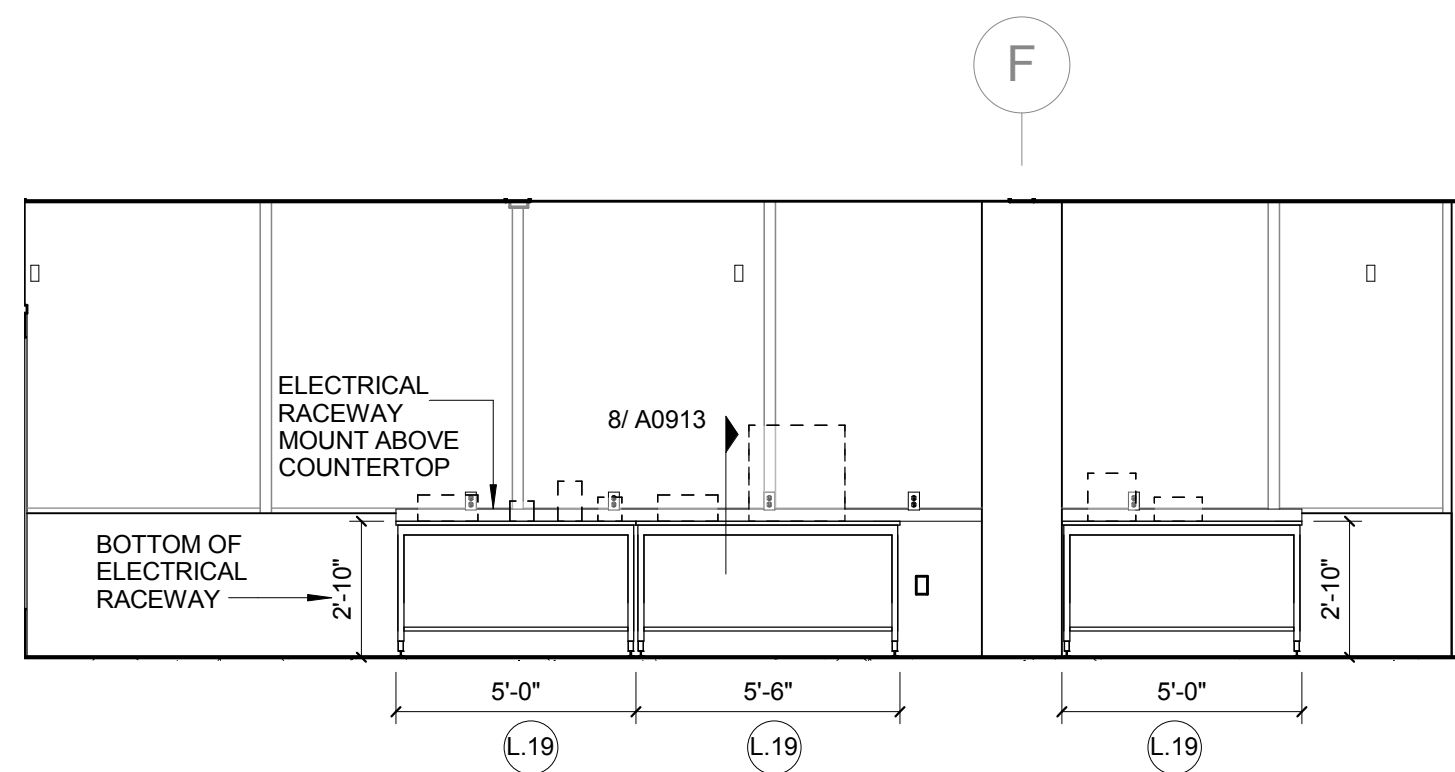
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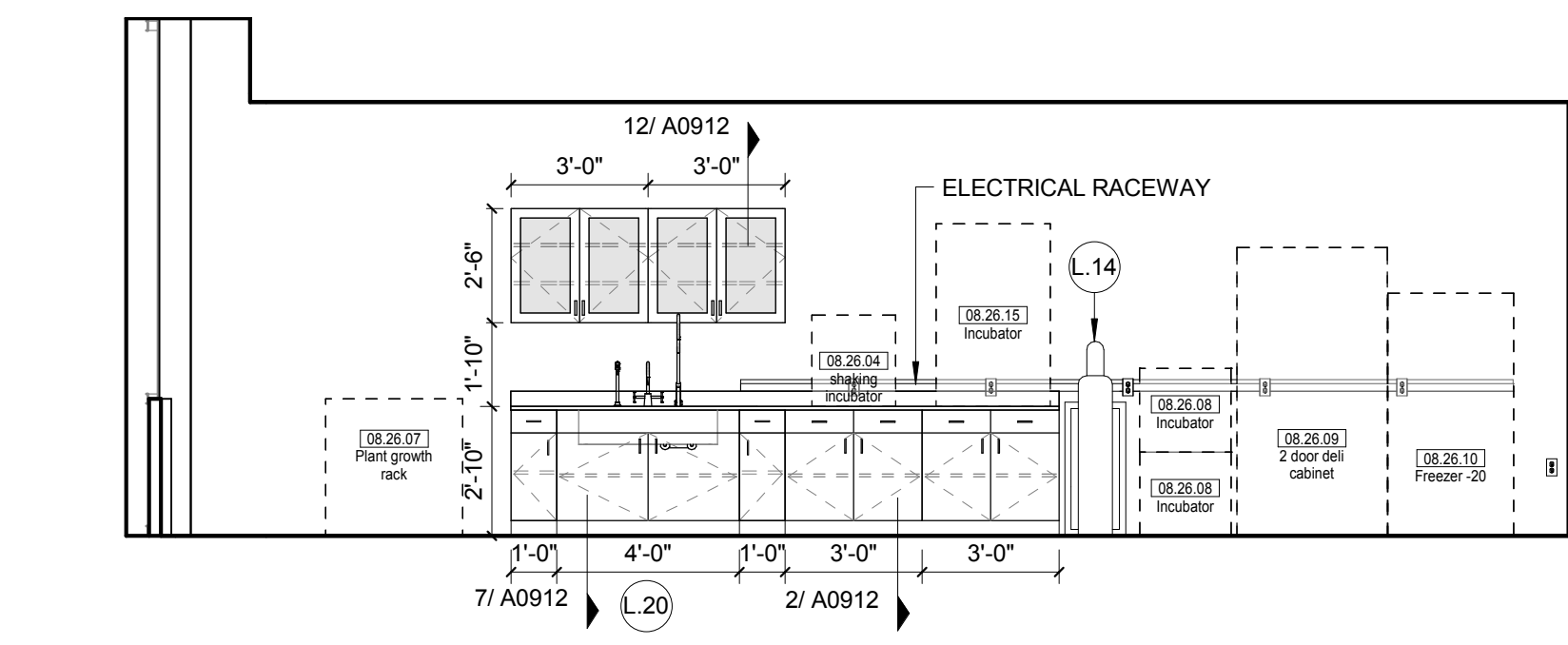
17 L02 OPEN RESEARCH LAB - TABLES - NORTH & SOUTH ELEVATION
1/4" = 1'-0"



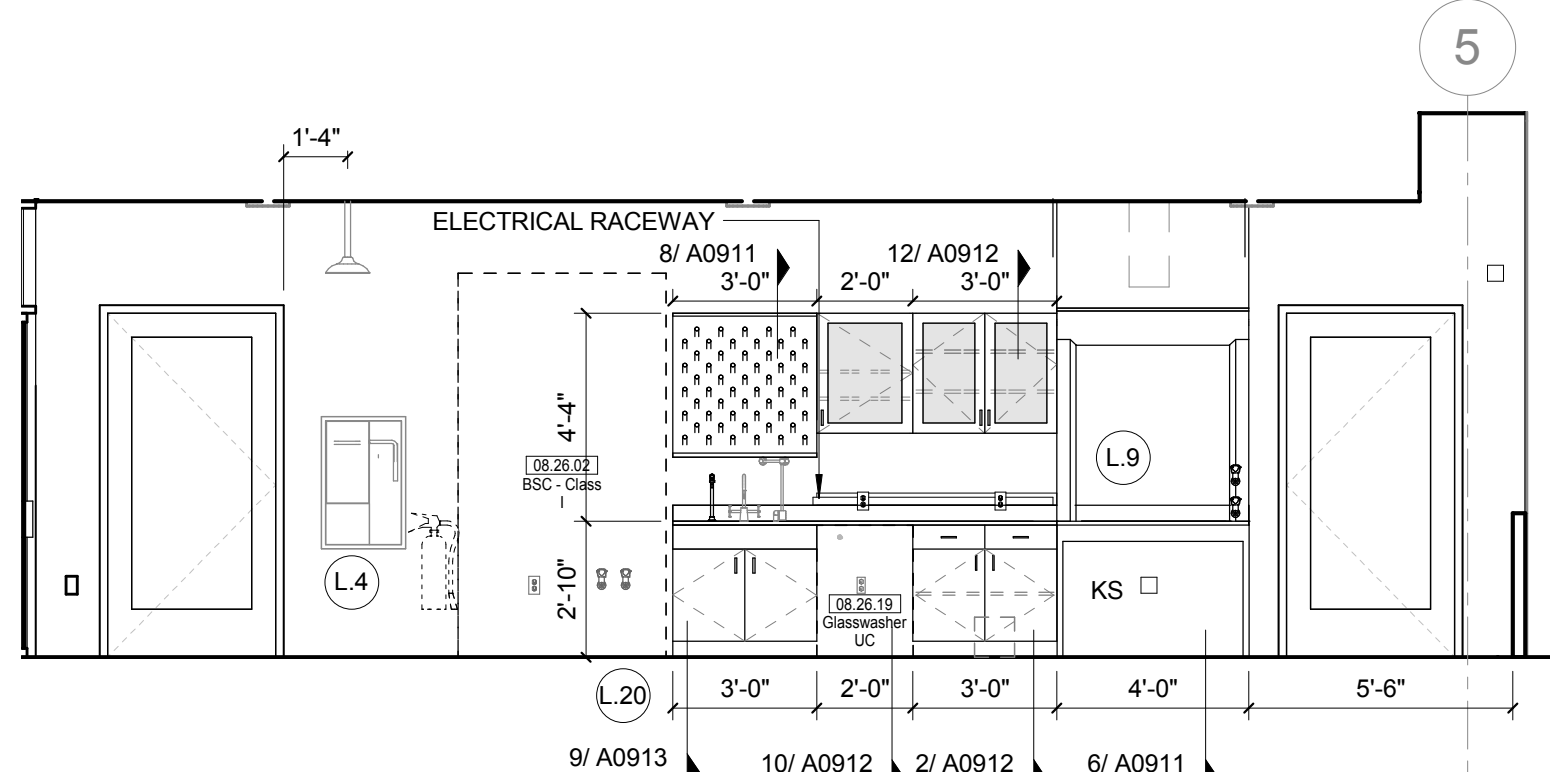
16 L02 OPEN RESEARCH LAB - NORTH
1/4" = 1'-0"



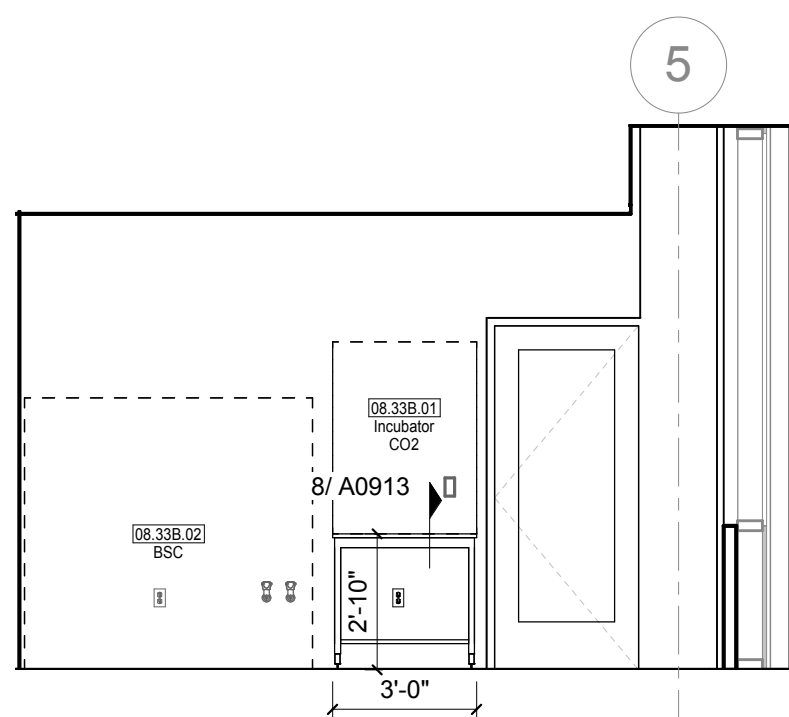
11 L02W CELL BIO AND PHYSICS RESEARCH - WEST
1/4" = 1'-0" REF 1 / A0204



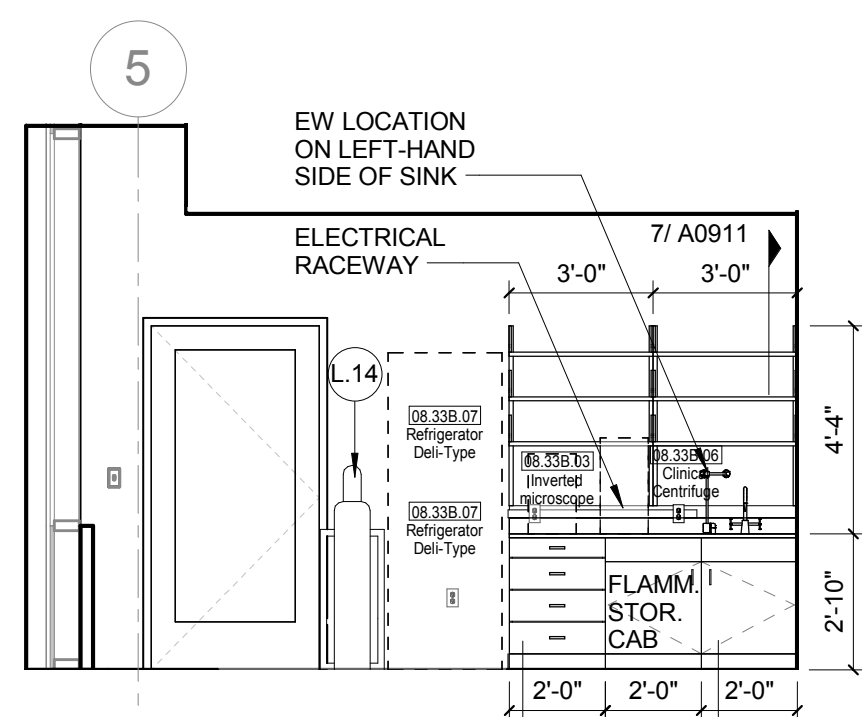
10 L02 CELL BIO AND PHYS RESEARCH - NORTH
1/4" = 1'-0"



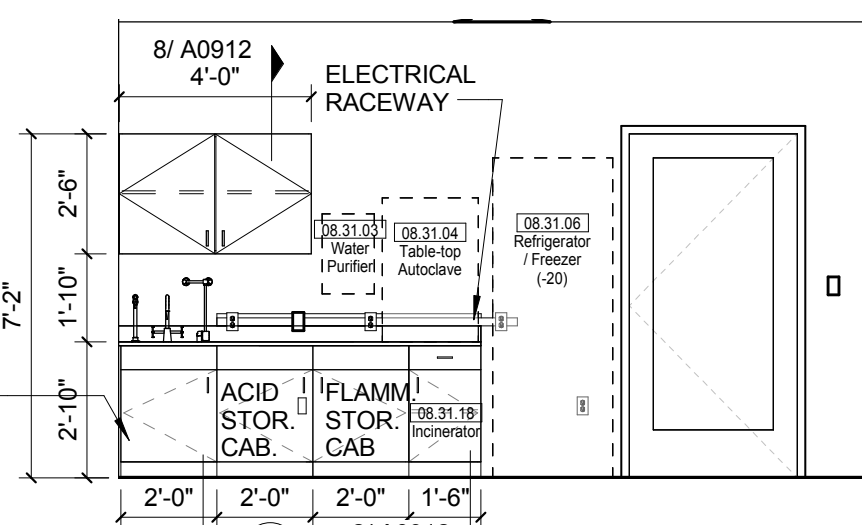
9 L02 CELL BIO / PHYSIO RESEARCH - SOUTH
1/4" = 1'-0"



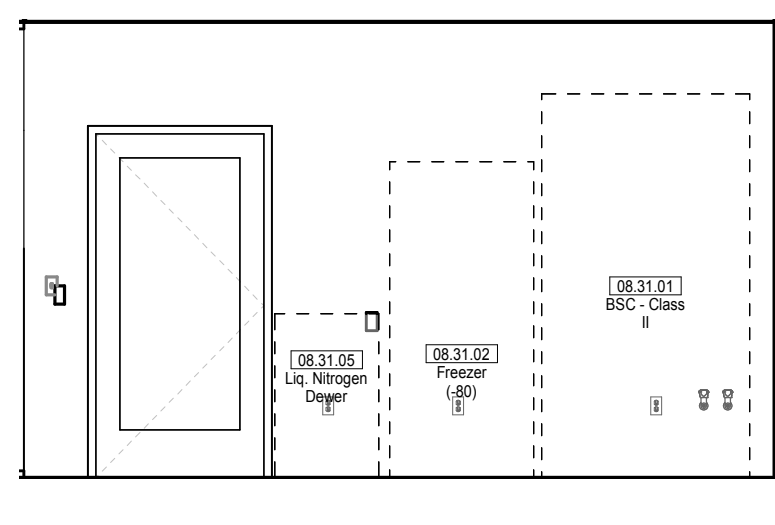
8 L02 TISSUE CULTURE - SOUTH
1/4" = 1'-0"



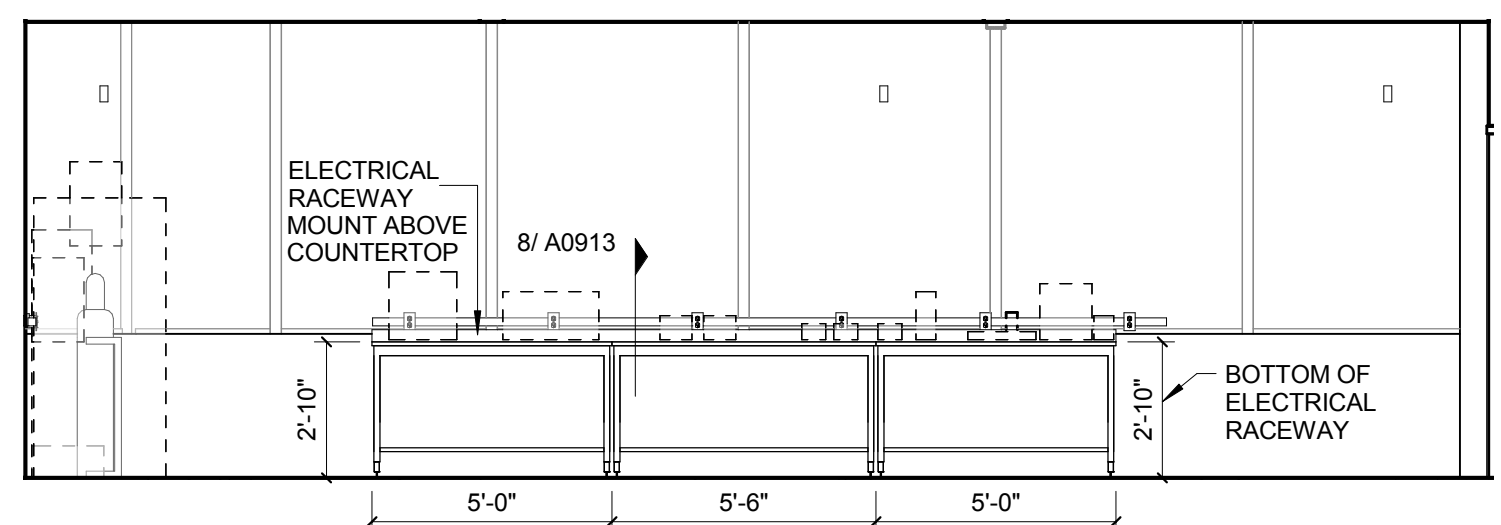
7 L02 TISSUE CULTURE - NORTH
1/4" = 1'-0"



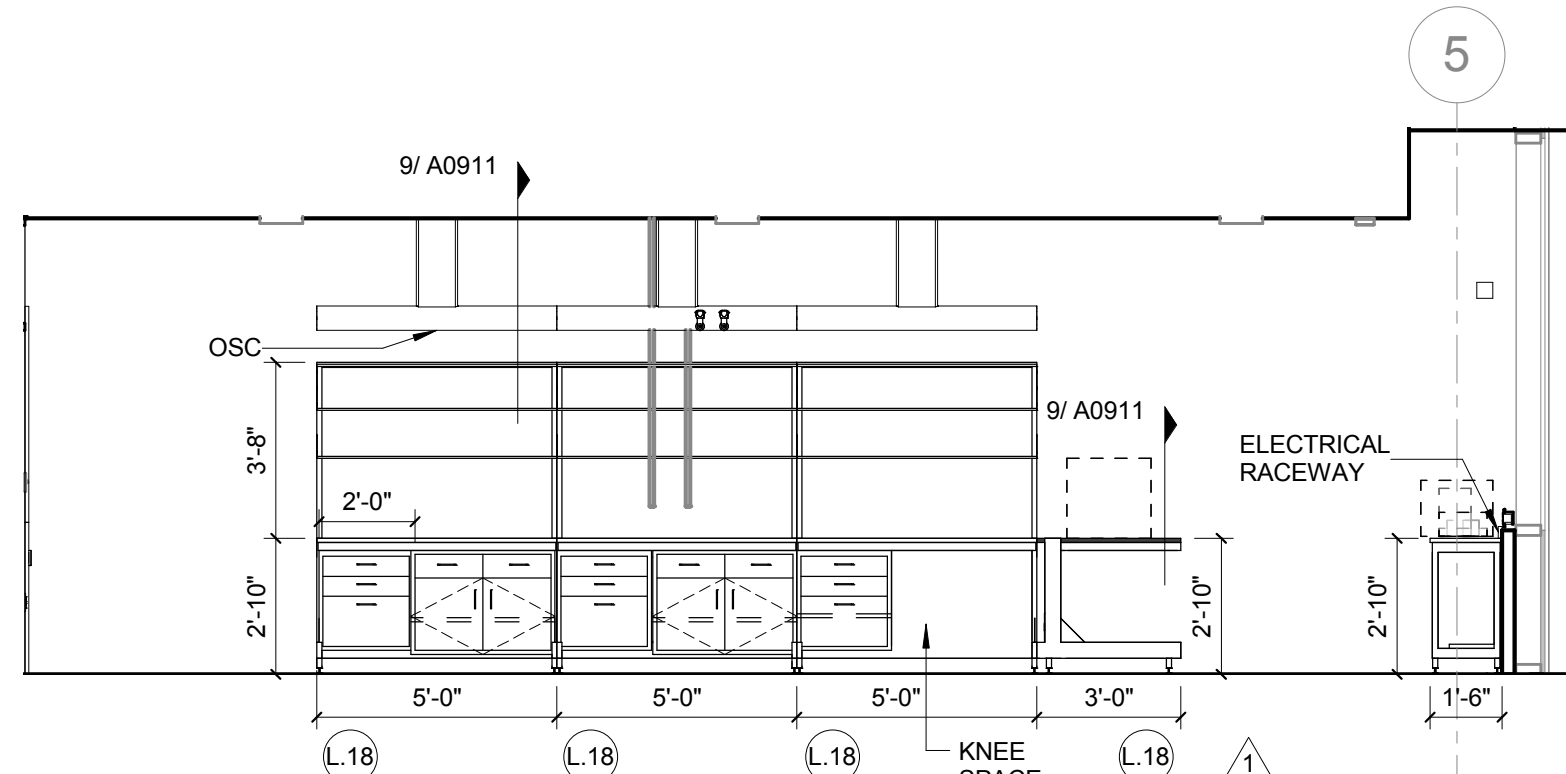
6 L02 MICROBIO PREP AND TC - NORTH
1/4" = 1'-0"



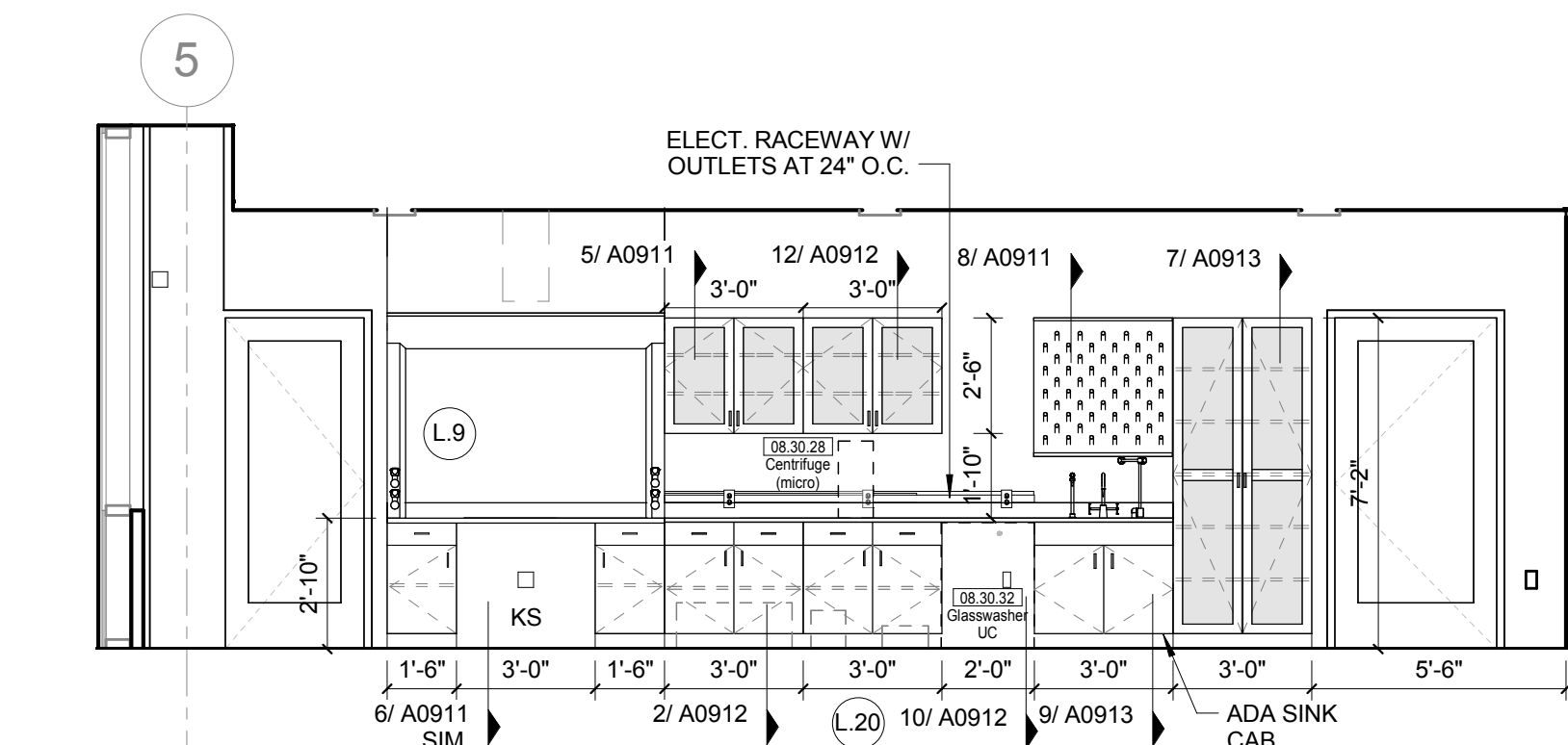
5 L02 MICROBIO PREP AND TC - SOUTH
1/4" = 1'-0"



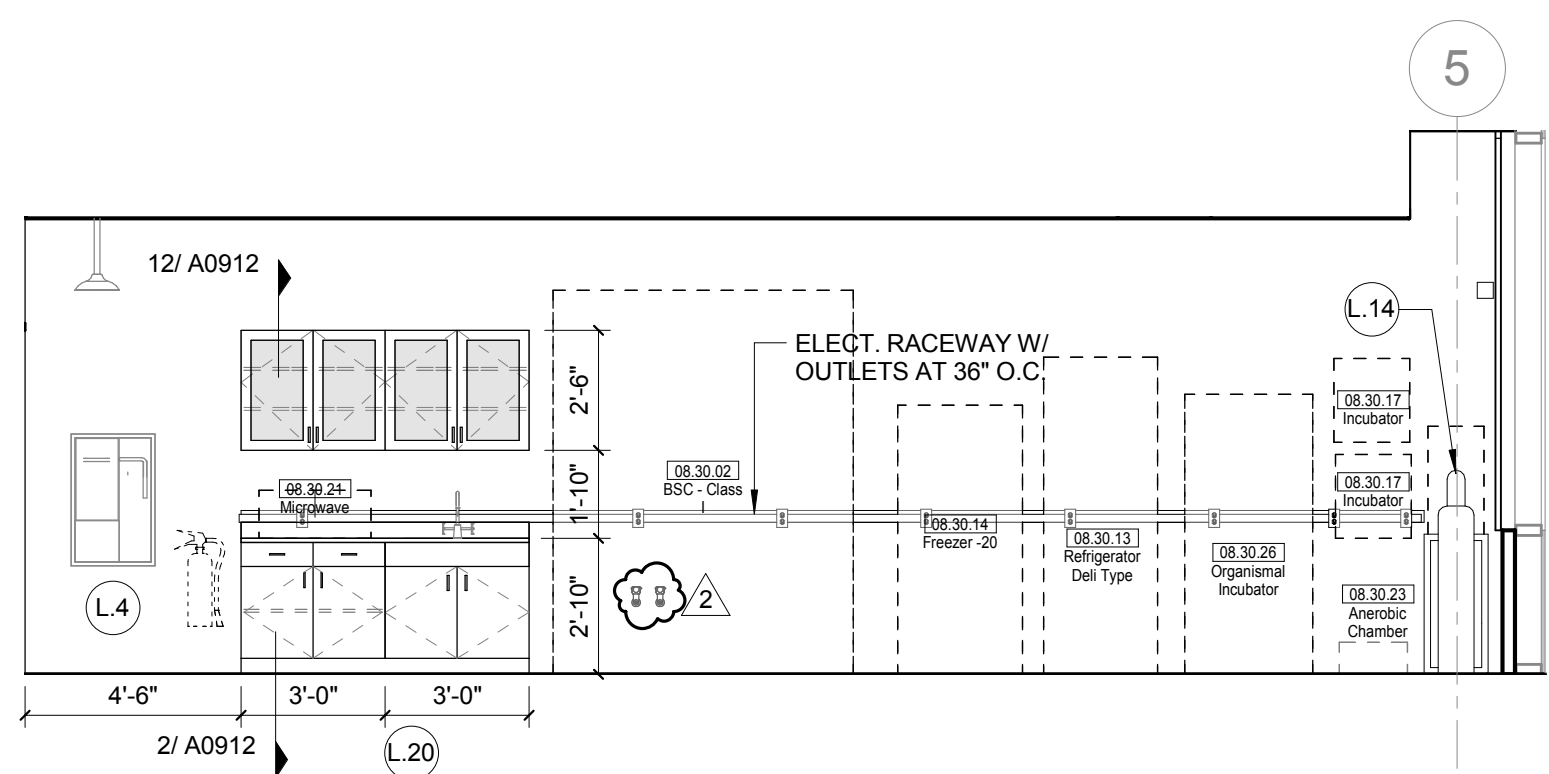
4 L02W MICRO / PLANT RESEARCH - WEST
1/4" = 1'-0" REF 1 / A0204



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 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 6" 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

- WC 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-3 AIR TURRET BASE, SINGLE SERRATED OUTLET
- A-4 AIR WALL MOUNTED, SINGLE SERRATED OUTLET
- A-5 AIR QUICK DISCONNECT FOR OVERHEAD SERVICE CARRIER
- N NITROGEN FUMEHOOD CONTROL
- E-1 ELEC. DUPLEX OUTLET (GFI) ON FUME HOOD
- E-2 ELEC. COUNTERTOP MOUNTED PEDESTAL, (1) DUPLEX ELECTRICAL OUTLET
- E-3 ELEC. COUNTERTOP MOUNTED PEDESTAL, (2) 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

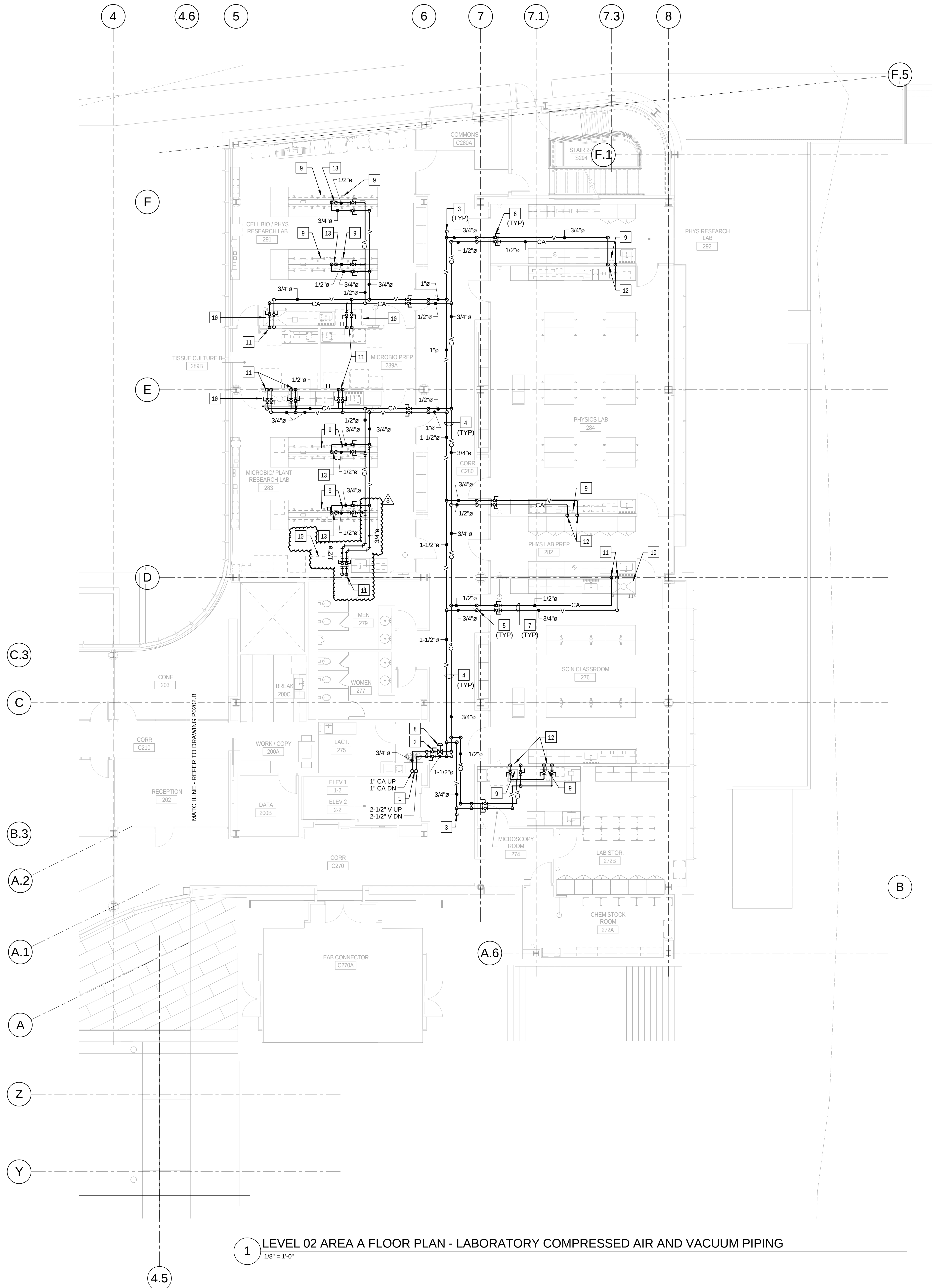
CHEMICAL FUME HOOD LEGEND

- 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 (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 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 O.F.O.I. SEE DIVISION 12-3555 - LABORATORY CASEWORK FOR SPECIFICATIONS.
- ALL EQUIPMENT ITEMS HAVE A EQUIPMENT TAG - XX-XXXX. SEE SHEETS A114 FOR EQUIPMENT SCHEDULES.
- PROVIDE PAPER TOWEL DISPENSER (PTD) AT EACH SINK LOCATION.

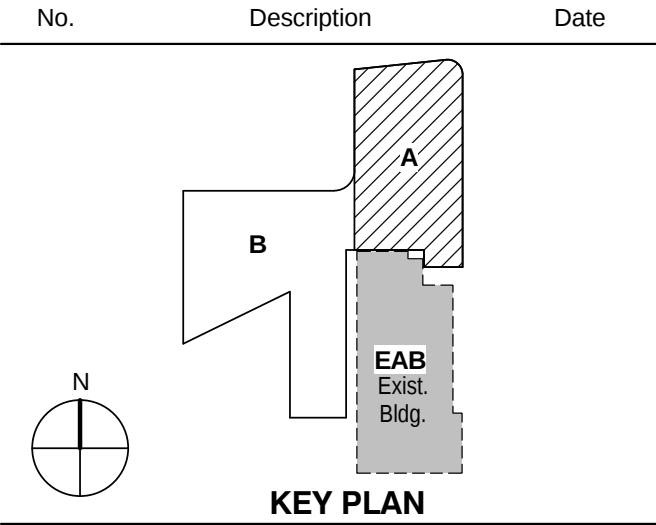
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12/19/2016 9:38:06 AM



KEYED NOTES: (THIS SHEET ONLY)

- 1 BUILDING SERVICE RISERS FOR LABORATORY COMPRESSED AIR AND VACUUM. COORDINATE INSTALLATION WITH BUILDING STRUCTURE AND OTHER SERVICES WITHIN CHASE.
- 2 PROVIDE FLOOR ISOLATION VALVES AT EACH FLOOR LEVEL. LOCATE VALVES IN ACCESSIBLE CEILING OR PROVIDE ACCESS PANEL AS REQUIRED.
- 3 PROVIDE CLEANOUTS PLUG IN PIPING.
- 4 PIPING IN CORRIDOR TO BE RUN AT BOTTOM OF STRUCTURAL STEEL CROSS MEMBERS. COORDINATE INSTALLATION AND ROUTING WITH OTHER TRADES PRIOR TO ROUGH-IN.
- 5 DROP PIPING DOWN TO BELOW STRUCTURAL STEEL MEMBER. HOLD TIGHT TO BOTTOM OF STEEL.
- 6 PROVIDE SHUT-OFF VALVES AT THE ENTRY TO EACH ROOM.
- 7 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.
- 8 INSTALL SINGLE STAGE IN-LINE AIR PRESSURE REGULATOR, BEACONMEDAES MODEL 6-122102-01, .75 INCH INLET AND OUTLET, ADJUSTABLE FROM 40 to 110 PSIG. DELIVERY RANGE, PROVIDE WITH MODEL 6-130116-00, 0 TO 300 PRESSURE GAUGE. MOUNT ABOVE THE CEILING IN AN ACCESSIBLE LOCATION. POSITION FOR FULL ACCESS TO THE ADJUSTMENT NUT AND GAUGE. SET TO 50 PSIG.
- 9 LABORATORY COMPRESSED AIR OUTLET AND VACUUM INLET SERVICE FITTING.
- 10 LABORATORY FUME HOOD OR BIO SAFETY CABINET. REFER TO THE ARCHITECTURAL DRAWINGS FOR THE TYPE.
- 11 EXTEND 1/2" COMPRESSED AIR AND 3/4" VACUUM DOWN WITHIN WALL TO SERVE LABORATORY FUME HOOD OR BIO SAFETY CABINET SERVICE FITTINGS. VERIFY CONNECTION LOCATIONS AND REQUIREMENTS WITH EQUIPMENT MANUFACTURER. PROVIDE ALL NECESSARY FITTINGS AND MAKE FINAL CONNECTIONS TO FITTINGS AS REQUIRED. PIPING TO BE CONCEALED AS MUCH AS POSSIBLE BEHIND THE EQUIPMENT OR BELOW THE COUNTERTOPS.
- 12 EXTEND 1/2" COMPRESSED AIR AND 3/4" VACUUM DOWN WITHIN WALL TO SERVE LABORATORY SERVICE FITTINGS. REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND TYPE. PROVIDE ALL NECESSARY FITTINGS AND MAKE FINAL CONNECTIONS TO FITTINGS AS REQUIRED.
- 13 EXTEND 1/2" COMPRESSED AIR AND 3/4" VACUUM DOWN INTO LABORATORY BENCH CASEWORK SERVICE CARRIER. ROUTE PIPING DOWN TO CASEWORK UTILITY CHASE AND CONNECT TO BENCH-TOP LABORATORY SERVICE FITTINGS. REFER TO THE ARCHITECTURAL PLAN FOR THE ENTRY POINT OF THE OVERHEAD SERVICE CARRIER AND SERVICE FITTINGS. PROVIDE ALL NECESSARY FITTINGS AND MAKE FINAL CONNECTIONS. COORDINATE INSTALL AND ROUTING OF PIPING WITH OTHER TRADES UTILIZING THE UTILITY CHASE.

3	ASI - 042	19 DEC 2016
2	ADDENDUM 2-4	24 MAY 2016
1	ADDENDUM 2-1	17 MAR 2016
-	ISSUED FOR CONSTRUCTION (BP2)	01 MAR 2016



Drawing Title:

**LEVEL 02 AREA A FLOOR
PLAN - LABORATORY
COMPRESSED AIR AND
VACUUM PIPING**

Project No.: 04561.01 Checked by:

P0202.A