

Architect's Supplemental Instructions

Architect's Project No:
04561.01

Architect's ASI No: 035

Project:
Webster University
Interdisciplinary Science
Building

Date Issued: 11/10/2016

Contract Date:

Reason Code: 06 Owner's Scope

Discipline Code: 03 Electrical

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

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:

E0101.A, E0101.B, E0102.A, E0102.B, E0103.A, E0103.B, & E0104.A.
T0001, T0101.A, T0101.B, T0102.A, T0102.B, T0103.A, T0104.A.
A0101.B, A0201, A0601, A0611, A0901, A0912.

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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

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Description:

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

SHEET E0101.A LEVEL 01 AREA A FLOOR PLAN – ELECTRICAL

- Add quadruplex outlet and associated circuit in Cylinder Room 187 for AV rack.

SHEET E0101.B LEVEL 01 AREA B FLOOR PLAN – ELECTRICAL

- Add duplex receptacle in Lecture Hall 160 and connect to adjacent circuit.
- Move four quadruplex receptacles and associated circuits from Control 160B to Lecture Hall storage room.
- Add two quadruplex receptacles and associated circuits in Lecture Hall storage room for AV rack.

SHEET E0102.A LEVEL 02 AREA A FLOOR PLAN – ELECTRICAL

- Delete AV rack quadruplex receptacle and associated circuit in Classroom 276.
- Delete AV rack quadruplex receptacle and associated circuit in Lab 283.
- Delete AV rack quadruplex receptacle and associated circuit in Lab 284.
- Delete AV rack quadruplex receptacle and associated circuit in Lab 291.

SHEET E0102.B LEVEL 02 AREA A FLOOR PLAN – ELECTRICAL

- Delete AV rack quadruplex receptacle and associated circuit in Conf 203.

SHEET E0103.A LEVEL 03 AREA A FLOOR PLAN – ELECTRICAL

- Delete AV rack quadruplex receptacle and associated circuit in Lab 378.
- Delete AV rack quadruplex receptacle and associated circuit in Lab 383.
- Delete AV rack quadruplex receptacle and associated circuit in Lab 388.
- Delete AV rack quadruplex receptacle and associated circuit in Lab 391.
- Add Keyed Note E08 to receptacle in Corridor C370.

SHEET E0103.B LEVEL 03 AREA A FLOOR PLAN – ELECTRICAL

- Delete AV rack quadruplex receptacle and associated circuit in Lab 353.
- Add floor box in Conf 352 and connect to circuit serving adjacent floor box.

SHEET E0104.A LEVEL 04 AREA A FLOOR PLAN – ELECTRICAL

- Delete AV rack quadruplex receptacle and associated circuit in Lab 472.
- Delete AV rack quadruplex receptacle and associated circuit in Lab 483.
- Delete AV rack quadruplex receptacle and associated circuit in Lab 480.
- Delete AV rack quadruplex receptacle and associated circuit in Lab 488.
- Delete AV rack quadruplex receptacle and associated circuit in Lab 491.
- Add Keyed Note E08 to receptacle in Corridor C470.

Architect's Supplemental Instructions

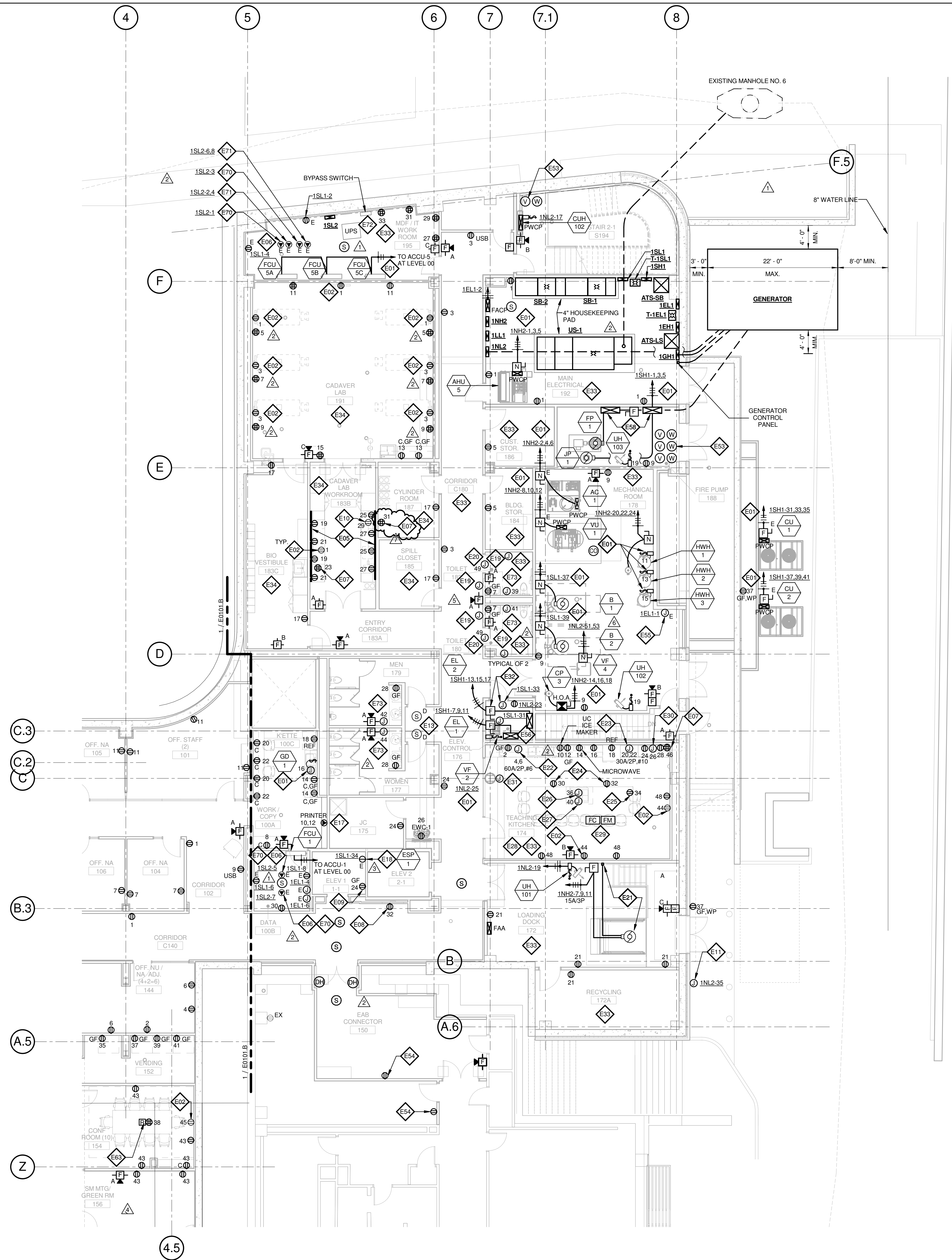
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1. T0001 – SYMBOLS AND ABBREVIATIONS
 - A. Revised symbol description.
2. T0101.A – LEVEL 01 FLOOR PLAN – AREA A
 - A. Revised AV infrastructure in several locations.
3. T0101.B – LEVEL 01 FLOOR PLAN – AREA B
 - A. Revised AV infrastructure in several locations.
4. T0102.A – LEVEL 02 FLOOR PLAN – AREA A
 - A. Revised AV infrastructure in several locations.
5. T0102.B – LEVEL 02 FLOOR PLAN – AREA B
 - A. Revised Keyed Note.
6. T0103.A – LEVEL 03 FLOOR PLAN – AREA A
 - A. Revised AV infrastructure in several locations.
7. T0104.A – LEVEL 04 FLOOR PLAN – AREA A
 - A. Revised AV infrastructure in several locations.

A0101.B, A0201, A0601, A0611, A0901, A0912:
Casework revisions based on AV package.

Issued by Architect: Mark de la Fuente, William Tao & Associates, Inc.;
Tom Becker, Faith Group; Kelvin Patel, CannonDesign.

Accepted by Contractor:



1 LEVEL 01 - AREA A - FLOOR PLAN - POWER AND AUXILIARY
1/8" = 1'-0"

GENERAL NOTES:

- DO NOT SCALE DRAWINGS. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR LOCATION AND ORIENTATION OF DEVICES. WHERE LOCATIONS ARE NOT INDICATED ON ARCHITECTURAL DRAWINGS, COORDINATE LOCATION AND ORIENTATION OF DEVICES IN FIELD WITH ARCHITECT PRIOR TO ROUGH-IN.
- ALL DEVICES SHOWN ARE NEW UNLESS NOTED OTHERWISE.
- ALL DEVICES TO REMAIN ARE INDICATED WITH A THIN SOLID LINE WEIGHT AND SUBSCRIPT "EX".
- CONTRACTOR SHALL VISIT PRIOR TO BID SUBMITTALS TO DETERMINE SITE CONDITIONS EFFECTING THE EXECUTION OF WORK. FAILURE TO BE ACQUAINTED WITH EXISTING CONDITIONS WILL NOT BE JUSTIFICATION FOR ADDITIONAL SERVICES.
- PROVIDE FACE PLATES ON ALL J-BOXES ABANDONED IN FINISHED FLOOR, WALL OR CEILINGS. COORDINATE COLOR AND FINISH WITH ARCHITECT. CONTRACTOR TO VERIFY QUANTITY IN THE FIELD.
- WHERE EXPOSED CONDUIT IS NOTED, CONTRACTOR SHALL IDENTIFY ROUTING IN FIELD AND OBTAIN ARCHITECT'S APPROVAL OF ROUTING PRIOR TO ROUGH-IN. EXPOSED CONDUIT SHALL BE ROUTED TIGHT TO STRUCTURE.
- ALL SINGLE PHASE BRANCH CIRCUITS SHOWN SHALL HAVE DEDICATED NEUTRALS TO MEET NEC SECTION 210.4 MULTI-WIRE BRANCH CIRCUIT REQUIREMENTS.
- ALL 120V BRANCH CIRCUITS ON THIS SHEET SHALL BE FED FROM PANEL 1N1L1 UNLESS NOTED OTHERWISE.

KEYED NOTES

- REFER TO EQUIPMENT DATA SCHEDULE FOR BRANCH CIRCUIT INFORMATION.
- PROVIDE NEW RECEPTACLE FOR MONITOR. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS AND TECHNOLOGY PLANS.
- PROVIDE NEW TWO SECTION ALUMINUM RACEWAY, WIREMOLD AL4320 WITH RECEPTACLES MOUNTED 24" ON CENTER UNLESS NOTED OR SHOWN OTHERWISE. PROVIDE ALL ACCESSORIES FOR A COMPLETE INSTALLATION. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHT AND LENGTH. SEE DETAILS ON SHEET E402.
- OUTLET SHALL BE MOUNTED TO THE BACK SIDE OF THE TELECOMMUNICATION RACK AND FED FROM ABOVE. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH TELECOMMUNICATIONS CONTRACTOR PRIOR TO INSTALLATION.
- OUTLET FOR RACK MOUNTED A/V EQUIPMENT. COORDINATE MOUNTING HEIGHT AND EXACT LOCATION WITH ARCHITECTURAL ELEVATIONS AND A/V DRAWINGS.
- OUTLET FOR DIGITAL SIGNAGE. COORDINATE MOUNTING HEIGHT AND EXACT LOCATION WITH ARCHITECTURAL ELEVATIONS AND A/V DRAWINGS.
- MOUNT RECEPTACLE IN ELEVATOR PIT. COORDINATE EXACT LOCATION WITH ELEVATOR CONTRACTOR.
- UNDERCOUNTER REFRIGERATOR. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH ARCHITECTURAL PLANS AND ELEVATIONS.
- PROVIDE POWER AND FINAL CONNECTION TO WALL MOUNTED BLUE LIGHT EMERGENCY INTERCOM STATION.
- PROVIDE A DUCT MOUNTED SMOKE DETECTOR(S) AT RETURN AIR GRILLE OF AHU-1 & AHU-2. BOTH AIR HANDLING UNITS SHALL SHUT DOWN UPON ACTIVATION OF THE DUCT MOUNTED SMOKE DETECTOR(S). PROVIDE REMOTE INDICATOR LIGHT(S) IN CEILING BELOW.
- PROVIDE NEMA 6-30R, 30A-208V RECEPTACLE FOR PRINTER. CONTRACTOR SHALL VERIFY PRINTER PLUG TYPE WITH OWNERS REPRESENTATIVE PRIOR TO ROUGH-IN.
- PROVIDE POWER AND FINAL CONNECTION TO ELEVATOR SUMP PUMP. COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.
- PROVIDE POWER AND FINAL CONNECTION TO ELECTRIC DOOR OPENER. COORDINATE POWER REQUIREMENTS WITH DOOR INSTALLER PRIOR TO ROUGH-IN.
- PROVIDE POWER AND FINAL CONNECTION TO ELECTRIC DOOR OPENER CONTROLS. COORDINATE EXACT LOCATION WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.
- PROVIDE POWER AND FINAL CONNECTION TO DOCK LEVELER AND CONTROLS PER MANUFACTURERS WRITTEN INSTRUCTIONS. COORDINATE CONTROL AND DISCONNECT LOCATION WITH DOCK LEVELER INSTALLER PRIOR TO INSTALLATION.
- PROVIDE POWER AND FINAL CONNECTION TO DISH WASHER. REFER TO KITCHEN EQUIPMENT DRAWINGS FOR ADDITIONAL INFORMATION.
- PROVIDE POWER AND FINAL CONNECTION TO DOUBLE OVEN. REFER TO KITCHEN EQUIPMENT DRAWINGS FOR ADDITIONAL INFORMATION.
- RECEPTACLE MOUNTED IN COUNTER APRON. REFER TO ARCHITECTURAL DRAWINGS AND ELEVATIONS FOR EXACT LOCATION.
- RECEPTACLE MOUNTED INSIDE CABINET FOR COMPUTER. REFER TO ARCHITECTURAL DRAWINGS AND ELEVATIONS FOR EXACT LOCATION.
- PROVIDE POWER AND FINAL CONNECTION TO DROP IN COOK TOP. REFER TO KITCHEN EQUIPMENT DRAWINGS FOR ADDITIONAL INFORMATION.
- PROVIDE POWER AND FINAL CONNECTION TO ISLAND HOOD. REFER TO KITCHEN EQUIPMENT DRAWINGS FOR ADDITIONAL INFORMATION.
- REFER TO KITCHEN EQUIPMENT DRAWINGS FOR MOUNTING HEIGHTS OF ALL ELECTRICAL DEVICES IN THIS ROOM AND FOR POWER REQUIREMENTS PRIOR TO ROUGH-IN.
- PROVIDE FIRE ALARM MONITOR MODULE AND CONTROL MODULE CONNECTED TO FIRE ALARM SYSTEM AT HOOD. PROVIDE WIRING BETWEEN HOOD AND FIRE SUPPRESSION SYSTEM. REFER TO KITCHEN HOOD EXTINGUISHING SYSTEM WIRING DIAGRAM, ON SHEET E402.
- PROVIDE POWER FOR HOOD FIRE PROTECTION SYSTEM. INTERCONNECT EXHAUST FANS AND MAKE-UP AIR FANS TO MICRO SWITCH IN FIRE PROTECTION CABINET. REFER TO KITCHEN HOOD EXTINGUISHING SYSTEM WIRING DIAGRAM.
- PROVIDE J-BOX AND CONDUIT IN WALL FOR REMOTE MANUAL PULL STATION. REFER TO KITCHEN EQUIPMENT DRAWINGS FOR ADDITIONAL INFORMATION.
- PROVIDE POWER MODULE SWITCH FOR ELEVATOR AND A JUNCTION BOX WITH A 120V/20A CIRCUIT FOR CONNECTION OF ELEVATOR CONTROLS. PROVIDE ALL FINAL CONNECTIONS TO ELEVATOR CONTROLLER AND ELEVATOR CAB PER MANUFACTURERS WRITTEN INSTRUCTIONS. REFER TO ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
- ALL 120V BRANCH CIRCUITS IN THIS ROOM SHALL BE FED FROM PANEL 1N1L2.
- ALL 120V BRANCH CIRCUITS IN THIS ROOM SHALL BE FED FROM PANEL 1L1L1.
- COORDINATE QUANTITY AND LOCATION OF TAMPER AND FLOW SWITCHES WITH FIRE PROTECTION CONTRACTOR.
- EXTEND CIRCUIT FROM EXISTING RECEPTACLES SERVING THIS AREA.
- PROVIDE POWER TO BUILDING AUTOMATION SYSTEM PANEL. COORDINATE LOCATION WITH AUTOMATION CONTRACTOR.
- SEE ELEVATOR DETAIL ON SHEET E402 FOR ADDITIONAL POWER & FIRE ALARM REQUIREMENTS.
- FIRE PUMP CONTROLLER AND JOCKEY PUMP CONTROLLER SEE ONE LINE DIAGRAM FOR FEEDER INFORMATION.
- PROVIDE A 2HR FIRE CLASSIFIED 4-GANG MULTI-SERVICE STEEL RECESSED FLOOR BOX EQUAL TO WIREMOLD CAT. NO. RFB4S-FC WITH A BRASS FLANGED COVER CAT. NO. FPB4S-NA. THE FLOOR BOX SHALL HAVE ALL NECESSARY MOUNTING BRACKETS FOR (2) 20A DUPLEX RECEPTACLE, (1) GANG - DATA/VOICE (SEE TECHNOLOGY DRAWINGS FOR DEVICE TYPE), (1) GANG - AV (SEE AV DRAWINGS FOR DEVICE TYPES). THE BOX SHALL BE INSTALLED PER MANUFACTURERS WRITTEN INSTRUCTIONS SO THAT THE COVER IS FLUSH WITH THE FLOOR.
- PROVIDE NEMA L5-20R, 20A-120V TWIST LOCK RECEPTACLE FOR RACK MOUNTED PDU. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH TECHNOLOGY CONTRACTOR.
- PROVIDE NEMA L6-20R, 30A-208V TWIST LOCK RECEPTACLE FOR RACK MOUNTED PDU. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH TECHNOLOGY CONTRACTOR.
- UPS AND EXTERNAL BYPASS SWITCH FURNISHED BY OWNER AND INSTALLED BY CONTRACTOR. REFER TO TECHNOLOGY DRAWINGS AND ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
- PROVIDE POWER AND FINAL CONNECTIONS FOR ELECTRIC HAND DRYER.

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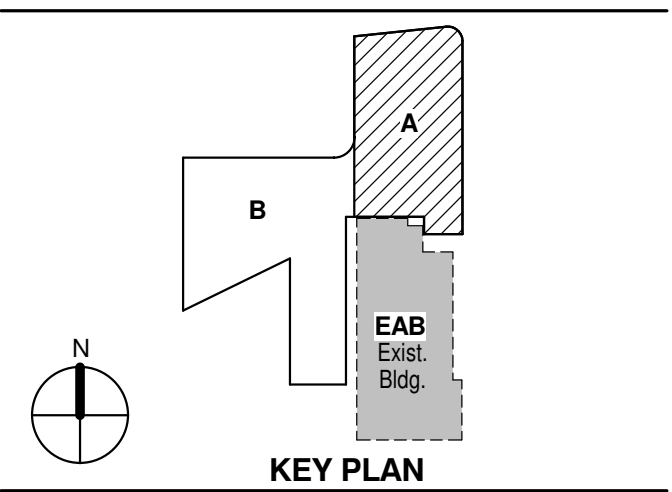
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7	ASH-035	10 NOV 2016
6	ASH-034	04 NOV 2016
5	ASH-031	26 OCT 2016
4	RFI-329	20 OCT 2016
3	ASH-010	21 JULY 2016
2	ADDENDUM 2-2	19 APRIL 2016
1	ADDENDUM 2-1	17 MAR 2016
-	ISSUED FOR CONSTRUCTION (BP2)	01 MAR 2016



LEVEL 01 AREA A FLOOR PLAN - ELECTRICAL & AUXILIARY

Project No.: 04561.01 Checked by:

E0101.A

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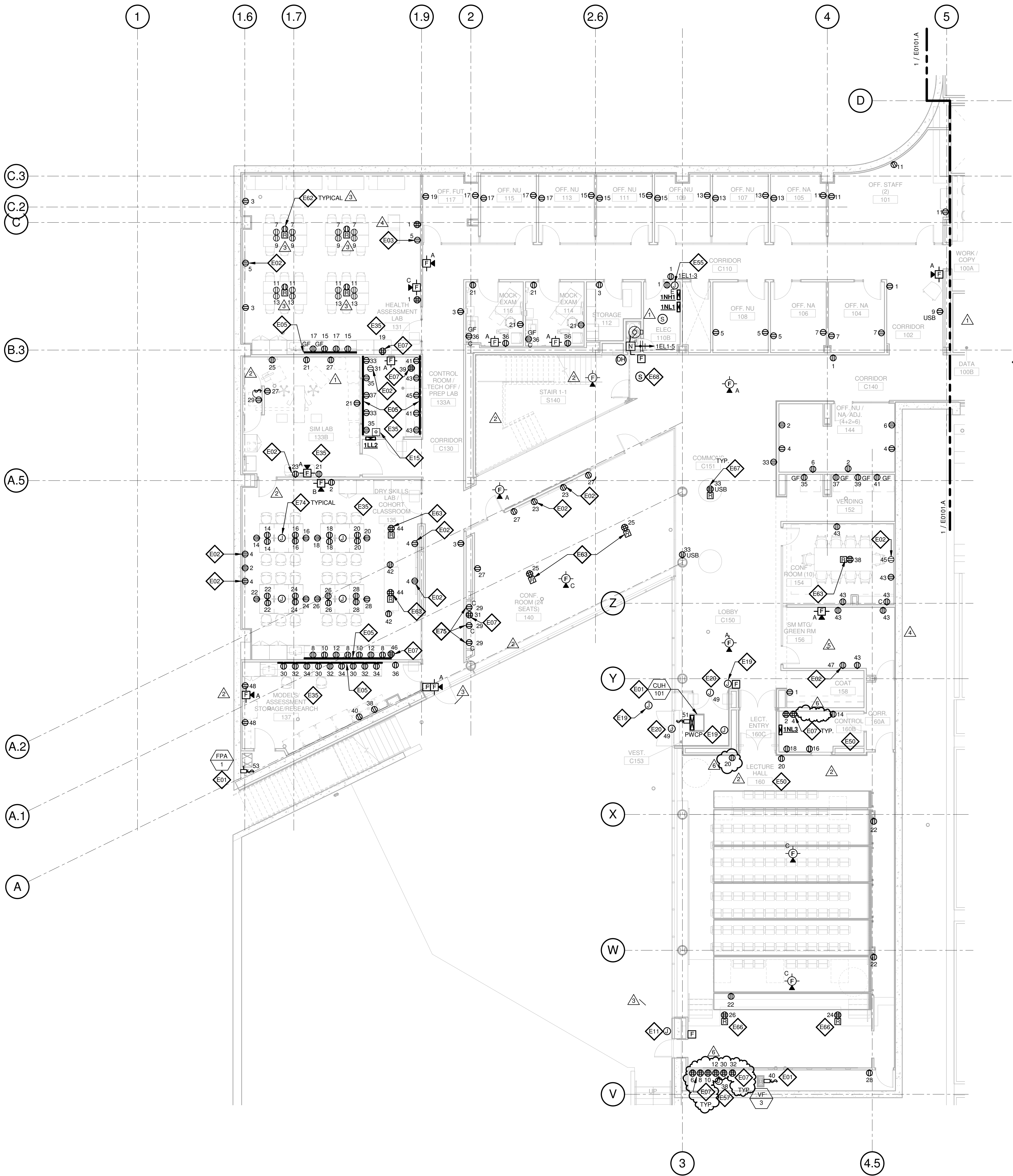
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- ALL DEVICES SHOWN ARE NEW UNLESS NOTED OTHERWISE.
- ALL DEVICES TO REMAIN ARE INDICATED WITH A THIN SOLID LINE WEIGHT AND SUBSCRIPT "EX".
- CONTRACTOR SHALL VISIT PRIOR TO BID SUBMITTALS TO DETERMINE SITE CONDITIONS EFFECTING THE EXECUTION OF WORK. FAILURE TO BE ACQUAINTED WITH EXISTING CONDITIONS WILL NOT BE JUSTIFICATION FOR ADDITIONAL SERVICES.
- PROVIDE FACE PLATES ON ALL J-BOXES ABANDONED IN FINISHED FLOOR, WALL OR CEILINGS. COORDINATE COLOR AND FINISH WITH ARCHITECT. CONTRACTOR TO VERIFY QUANTITY IN THE FIELD.
- WHERE EXPOSED CONDUIT IS NOTED, CONTRACTOR SHALL IDENTIFY ROUTING IN FIELD AND OBTAIN ARCHITECT'S APPROVAL OF ROUTING PRIOR TO ROUGH-IN. EXPOSED CONDUIT SHALL BE ROUTED TIGHT TO STRUCTURE.
- ALL SINGLE PHASE BRANCH CIRCUITS SHOWN SHALL HAVE DEDICATED NEUTRALS TO MEET NEC SECTION 210.4 MULTI-WIRE BRANCH CIRCUIT REQUIREMENTS.
- REFER TO TECHNOLOGY DRAWINGS FOR CONDUIT ROUGH-IN OF DATA, VOICE AND A/V.
- ALL 120V BRANCH CIRCUITS ON THIS SHEET SHALL BE FED FROM PANEL 1NL1 UNLESS NOTED OTHERWISE.

KEYED NOTES

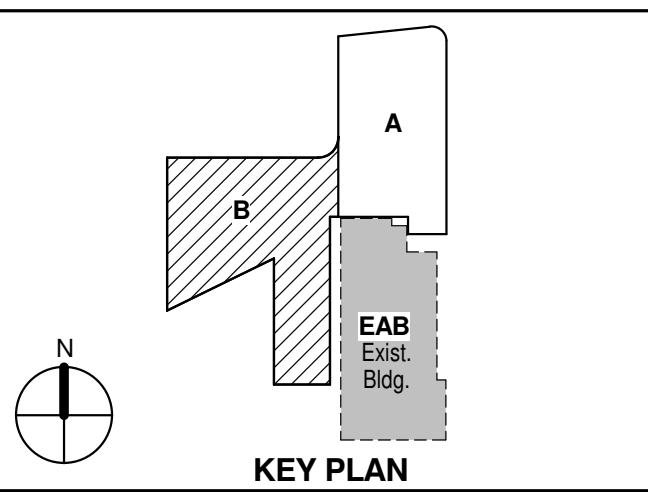
- E01 REFER TO EQUIPMENT DATA SCHEDULE FOR BRANCH CIRCUIT INFORMATION.
- E02 PROVIDE NEW RECEPTACLE FOR MONITOR, COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS AND TECHNOLOGY PLANS.
- E03 PROVIDE NEW RECEPTACLE FOR WALL MOUNTED PROJECTOR. VERIFY EXACT LOCATION AND MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS AND A/V DRAWINGS.
- E05 PROVIDE NEW TWO SECTION ALUMINUM RACEWAY, WIREMOLD AL4320 WITH RECEPTACLES MOUNTED 24" ON CENTER UNLESS NOTED OR SHOWN OTHERWISE. PROVIDE ALL ACCESSORIES FOR A COMPLETE INSTALLATION. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHT AND LENGTH. SEE DETAILS ON SHEET E402.
- E06 OUTLET SHALL BE MOUNTED TO THE BACK SIDE OF THE TELECOMMUNICATION RACK AND FED FROM ABOVE. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH TELECOMMUNICATIONS CONTRACTOR PRIOR TO INSTALLATION.
- E07 OUTLET FOR RACK MOUNTED A/V EQUIPMENT. COORDINATE MOUNTING HEIGHT AND EXACT LOCATION WITH ARCHITECTURAL ELEVATIONS AND A/V DRAWINGS.
- E11 PROVIDE POWER AND FINAL CONNECTION TO WALL MOUNTED BLUE LIGHT EMERGENCY INTERCOM STATION.
- E15 PROVIDE MUSHROOM HEAD PUSH BUTTON SWITCH AND 6 POLE CONTACTOR. PUSH BUTTON SHALL DEACTIVATE POWER TO CONTACTOR AND ASSOCIATED CIRCUITS. VERIFY WHICH RECEPTACLES IN SIM LAB SHALL BE CONTROLLED WITH OWNERS REPRESENTATIVE. ALL RECEPTACLES AND COVER PLATES FED THROUGH CONTACTOR SHALL BE RED IN COLOR AND SHALL BE LABELED "NOT ON GENERATOR."
- E19 PROVIDE POWER AND FINAL CONNECTION TO ELECTRIC DOOR OPENER. COORDINATE POWER REQUIREMENTS WITH DOOR INSTALLER PRIOR TO ROUGH-IN.
- E20 PROVIDE POWER AND FINAL CONNECTION TO ELECTRIC DOOR OPENER CONTROLS. COORDINATE EXACT LOCATION WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.
- E35 ALL 120V BRANCH CIRCUITS IN THIS ROOM SHALL BE FED FROM PANEL 1LL2.
- E50 ALL 120V BRANCH CIRCUITS IN THIS ROOM SHALL BE FED FROM PANEL 1NL3.
- E55 PROVIDE POWER TO BUILDING AUTOMATION SYSTEM PANEL. COORDINATE LOCATION WITH AUTOMATION CONTRACTOR.
- E57 PROVIDE POWER TO SUBWOOFER, COORDINATE LOCATION WITH A/V DRAWINGS.
- E62 PROVIDE A 2HR FIRE CLASSIFIED 2-GANG MULTI-SERVICE STEEL RECESSED FLOOR BOX EQUAL TO WIREMOLD CAT. NO. RFB2S-FC WITH A BRASS FLANGED COVER CAT. NO. FPB2CBS-NA. THE FLOOR BOX SHALL HAVE ALL NECESSARY MOUNTING BRACKETS FOR (2) 20A STANDARD DUPLEX RECEPTACLES, NEMA 5-20R. THE BOX SHALL BE INSTALLED PER MANUFACTURERS WRITTEN INSTRUCTIONS SO THAT THE COVER IS FLUSH WITH THE FLOOR.
- E63 PROVIDE A 2HR FIRE CLASSIFIED 4-GANG MULTI-SERVICE STEEL RECESSED FLOOR BOX EQUAL TO WIREMOLD CAT. NO. RFB4S-FC WITH A BRASS FLANGED COVER CAT. NO. FPB4CBS-NA. THE FLOOR BOX SHALL HAVE ALL NECESSARY MOUNTING BRACKETS FOR (2) 20A DUPLEX RECEPTACLE, (1) GANG - DATA/VOICE (SEE TECHNOLOGY DRAWINGS FOR DEVICE TYPE), (1) GANG - A/V (SEE A/V DRAWINGS FOR DEVICE TYPES). THE BOX SHALL BE INSTALLED PER MANUFACTURERS WRITTEN INSTRUCTIONS SO THAT THE COVER IS FLUSH WITH THE FLOOR.
- E66 PROVIDE A 2HR FIRE CLASSIFIED 6-GANG MULTI-SERVICE STEEL RECESSED FLOOR BOX EQUAL TO WIREMOLD CAT. NO. RFB6S-FC WITH A BRASS FLUSH COVER CAT. NO. FPB6CBS-NA. THE FLOOR BOX SHALL HAVE ALL NECESSARY MOUNTING BRACKETS FOR (2) 20A DUPLEX RECEPTACLE, (1) GANG - DATA/VOICE (SEE TECHNOLOGY DRAWINGS FOR DEVICE TYPE), (3) GANG - A/V (SEE A/V DRAWINGS FOR DEVICE TYPES). THE BOX SHALL BE INSTALLED PER MANUFACTURERS WRITTEN INSTRUCTIONS SO THAT THE COVER IS FLUSH WITH THE FLOOR.
- E67 PROVIDE A 2HR FIRE CLASSIFIED 2-GANG MULTI-SERVICE STEEL RECESSED FLOOR BOX EQUAL TO WIREMOLD CAT. NO. RFB2S-FC WITH A BRASS FLANGED COVER CAT. NO. FPB2CBS-NA. THE FLOOR BOX SHALL HAVE ALL NECESSARY MOUNTING BRACKETS FOR (2) 20A DUPLEX RECEPTACLES WITH USB PORTS. THE BOX SHALL BE INSTALLED PER MANUFACTURERS WRITTEN INSTRUCTIONS SO THAT THE COVER IS FLUSH WITH THE FLOOR.
- E68 PROVIDE FIRE ALARM CONTROL MODULE TO RELEASE POWER TO ELECTRICALLY HELD OPEN FIRE DOOR UPON ACTIVATION OF ASSOCIATED SMOKE DETECTOR.
- E70 PROVIDE NEMA L5-20R, 20A-120V TWIST LOCK RECEPTACLE FOR RACK MOUNTED PDU. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH TECHNOLOGY CONTRACTOR.
- E74 FEED FIXED FURNITURE FROM BELOW AND MAKE ALL FINAL CONNECTIONS TO RECEPTACLES.
- E75 RECEPTACLES SHALL BE MOUNTED HORIZONTALLY, REFER TO ARCHITECTURAL PLANS AND ELEVATIONS.



1 LEVEL 01 - AREA B - FLOOR PLAN - POWER AND AUXILIARY

1/8" = 1'-0"

6	ASI-035	10 NOV 2016
5	RFI-329	20 OCT 2016
4	ASI-030	14 OCT 2016
3	ASI-017	14 OCT 2016
2	ADDENDUM 2-2	19 APRIL 2016
1	ADDENDUM 2-1	17 MAR 2016
-	ISSUED FOR CONSTRUCTION (BP2)	01 MAR 2016



Drawing Title:

**LEVEL 01 AREA B FLOOR
PLAN - ELECTRICAL &
AUXILIARY**

Project No.: 04561.01 Checked by:

E0101.B

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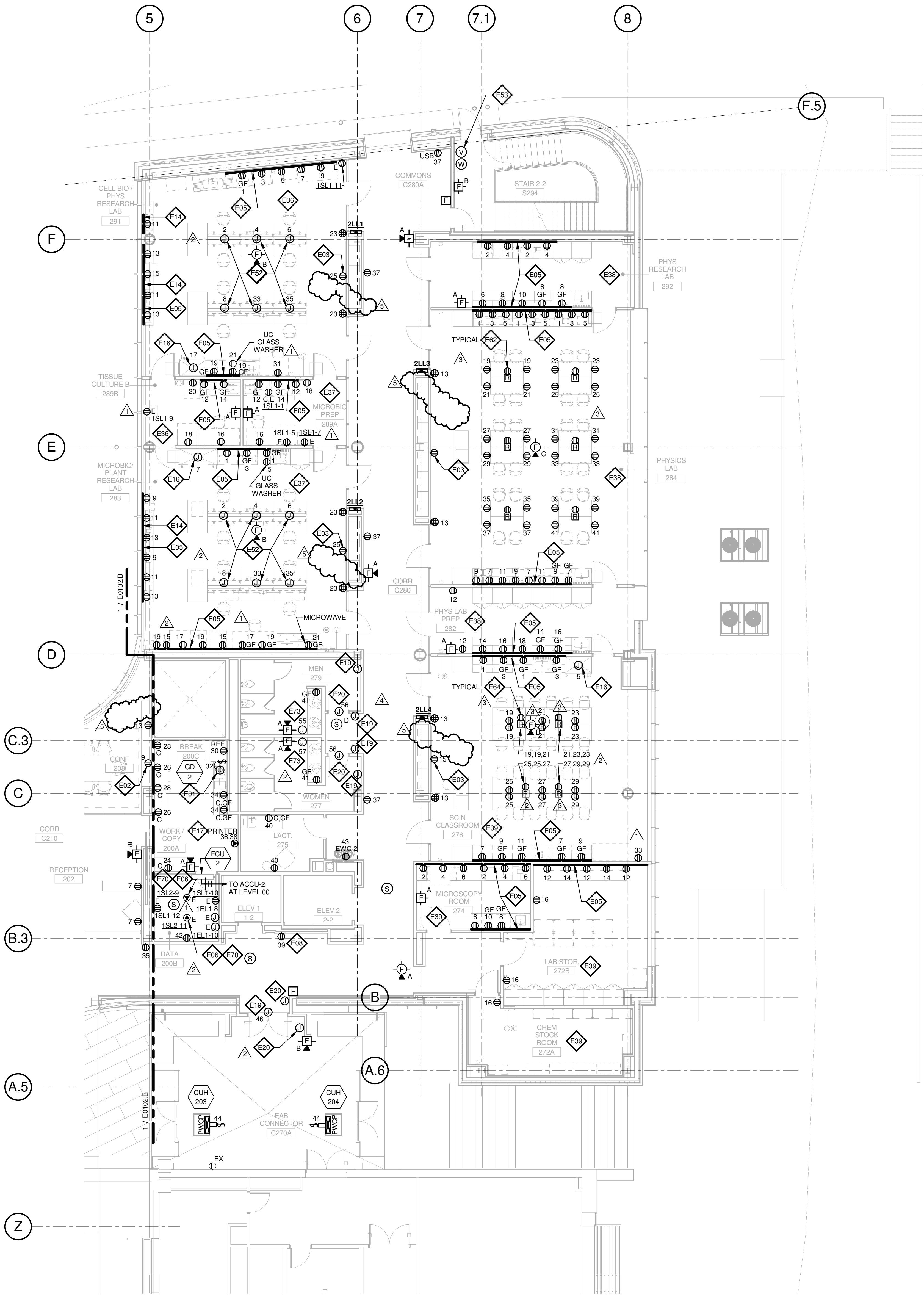
GENERAL NOTES:

- DO NOT SCALE DRAWINGS. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR LOCATION AND ORIENTATION OF DEVICES. WHERE LOCATIONS ARE NOT INDICATED ON ARCHITECTURAL DRAWINGS, COORDINATE LOCATION AND ORIENTATION OF DEVICES IN FIELD WITH ARCHITECT PRIOR TO ROUGH-IN.
- ALL DEVICES SHOWN ARE NEW UNLESS NOTED OTHERWISE.
- ALL DEVICES TO REMAIN ARE INDICATED WITH A THIN SOLID LINE WEIGHT AND SUBSCRIPT "EX".
- CONTRACTOR SHALL VISIT PRIOR TO BID SUBMITTALS TO DETERMINE SITE CONDITIONS EFFECTING THE EXECUTION OF WORK. FAILURE TO BE ACQUAINTED WITH EXISTING CONDITIONS WILL NOT BE JUSTIFICATION FOR ADDITIONAL SERVICES.
- PROVIDE FACE PLATES ON ALL J-BOXES ABANDONED IN FINISHED FLOOR, WALL OR CEILINGS. COORDINATE COLOR AND FINISH WITH ARCHITECT. CONTRACTOR TO VERIFY QUANTITY IN THE FIELD.
- WHERE EXPOSED CONDUIT IS NOTED, CONTRACTOR SHALL IDENTIFY ROUTING IN FIELD AND OBTAIN ARCHITECT'S APPROVAL OF ROUTING PRIOR TO ROUGH-IN. EXPOSED CONDUIT SHALL BE ROUTED TIGHT TO STRUCTURE.
- ALL SINGLE PHASE BRANCH CIRCUITS SHOWN SHALL HAVE DEDICATED NEUTRALS TO MEET NEC SECTION 210.4 MULTI-WIRE BRANCH CIRCUIT REQUIREMENTS.
- REFER TO TECHNOLOGY DRAWINGS FOR CONDUIT ROUGH-IN OF DATA, VOICE AND AV.

- ALL 120V BRANCH CIRCUITS ON THIS SHEET SHALL BE FED FROM PANEL 2N1.1 UNLESS NOTED OTHERWISE.

KEYED NOTES

- REFER TO EQUIPMENT DATA SCHEDULE FOR BRANCH CIRCUIT INFORMATION.
- PROVIDE NEW RECEPTACLE FOR MONITOR, COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS AND TECHNOLOGY PLANS.
- PROVIDE NEW RECEPTACLE FOR WALL MOUNTED PROJECTOR. VERIFY EXACT LOCATION AND MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS AND AV DRAWINGS.
- PROVIDE NEW TWO SECTION ALUMINUM RACEWAY, WIREMOLD AL4320 WITH RECEPTACLES MOUNTED 24" ON CENTER UNLESS NOTED OR SHOWN OTHERWISE. PROVIDE ALL ACCESSORIES FOR A COMPLETE INSTALLATION. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHT AND LENGTH. SEE DETAILS ON SHEET E402.
- OUTLET SHALL BE MOUNTED TO THE BACK SIDE OF THE TELECOMMUNICATION RACK AND FED FROM ABOVE. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH TELECOMMUNICATIONS CONTRACTOR PRIOR TO INSTALLATION.
- OUTLET FOR DIGITAL SIGNAGE, COORDINATE MOUNTING HEIGHT AND EXACT LOCATION WITH ARCHITECTURAL ELEVATIONS AND AV DRAWINGS.
- SURFACE RACEWAY AT EXTERIOR WINDOWS SHALL BE FED FROM BELOW OR FROM ADJACENT WALL OR COLUMN.
- PROVIDE POWER AND FINAL CONNECTIONS TO FUME HOOD.
- PROVIDE NEMA 6-30R, 30A-208V RECEPTACLE FOR PRINTER. CONTRACTOR SHALL VERIFY PRINTER PLUG TYPE WITH OWNERS REPRESENTATIVE PRIOR TO ROUGH-IN.
- PROVIDE POWER AND FINAL CONNECTION TO ELECTRIC DOOR OPENER. COORDINATE POWER REQUIREMENTS WITH DOOR INSTALLER PRIOR TO ROUGH-IN.
- PROVIDE POWER AND FINAL CONNECTION TO ELECTRIC DOOR OPENER CONTROLS. COORDINATE EXACT LOCATION WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.
- ALL 120V BRANCH CIRCUITS IN THIS ROOM SHALL BE FED FROM PANEL 2LL1.
- ALL 120V BRANCH CIRCUITS IN THIS ROOM SHALL BE FED FROM PANEL 2LL2.
- ALL 120V BRANCH CIRCUITS IN THIS ROOM SHALL BE FED FROM PANEL 2LL3.
- ALL 120V BRANCH CIRCUITS IN THIS ROOM SHALL BE FED FROM PANEL 2LL4.
- PROVIDE POWER AND FINAL CONNECTIONS TO OVERHEAD SERVICE CARRIER. REFER TO LIGHTING PLANS FOR LIGHTING CIRCUITS. COORDINATE WITH ARCHITECTURAL PLANS AND ELEVATIONS.
- COORDINATE QUANTITY AND LOCATION OF TAMPER AND FLOW SWITCHES WITH FIRE PROTECTION CONTRACTOR.
- PROVIDE A 2HR FIRE CLASSIFIED 2-GANG MULTI-SERVICE STEEL RECESSED FLOOR BOX EQUAL TO WIREMOLD CAT. NO. RFB2S-FC WITH A BRASS FLANGED COVER CAT. NO. FPBTCBS-NA. THE FLOOR BOX SHALL HAVE ALL NECESSARY MOUNTING BRACKETS FOR (2) 20A STANDARD DUPLEX RECEPTACLES, NEMA 5-20R. THE BOX SHALL BE INSTALLED PER MANUFACTURERS WRITTEN INSTRUCTIONS SO THAT THE COVER IS FLUSH WITH THE FLOOR.
- PROVIDE A 2HR FIRE CLASSIFIED 4-GANG MULTI-SERVICE STEEL RECESSED FLOOR BOX EQUAL TO WIREMOLD CAT. NO. RFB4S-FC WITH A BRASS FLANGED COVER CAT. NO. FPBTCBS-NA. THE FLOOR BOX SHALL HAVE ALL NECESSARY MOUNTING BRACKETS FOR (2) 20A DUPLEX RECEPTACLE, (1) GANG - DATA/VOICE (SEE TECHNOLOGY DRAWINGS FOR DEVICE TYPE), (1) GANG - AV (SEE AV DRAWINGS FOR DEVICE TYPES). THE BOX SHALL BE INSTALLED PER MANUFACTURERS WRITTEN INSTRUCTIONS SO THAT THE COVER IS FLUSH WITH THE FLOOR.
- PROVIDE A 2HR FIRE CLASSIFIED 4-GANG MULTI-SERVICE STEEL RECESSED FLOOR BOX EQUAL TO WIREMOLD CAT. NO. RFB4S-FC WITH A BRASS FLANGED COVER CAT. NO. FPBTCBS-NA. THE FLOOR BOX SHALL HAVE ALL NECESSARY MOUNTING BRACKETS FOR (3) 20A STANDARD DUPLEX RECEPTACLES, NEMA 5-20R, (1) GANG BLANK. THE BOX SHALL BE INSTALLED PER MANUFACTURERS WRITTEN INSTRUCTIONS SO THAT THE COVER IS FLUSH WITH THE FLOOR.
- PROVIDE NEMA LS-20R, 20A-120V TWIST LOCK RECEPTACLE FOR RACK MOUNTED PDU. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH TECHNOLOGY CONTRACTOR.
- PROVIDE POWER AND FINAL CONNECTIONS FOR ELECTRIC HAND DRYER.



1 LEVEL 02 - AREA A - FLOOR PLAN - POWER AND AUXILLARY

1/8" = 1'-0"

5	ASI-035	10 NOV 2016
4	ASI-031	26 OCT 2016
3	ASI-017	14 OCT 2016
2	ADDENDUM 2-2	19 APRIL 2016
1	ADDENDUM 2-1	17 MAR 2016
-	ISSUED FOR CONSTRUCTION (BP2)	01 MAR 2016

No.	Description	Date
1	KEY PLAN	

Drawing Title:
**LEVEL 02 AREA A FLOOR
PLAN - ELECTRICAL &
AUXILIARY**

Project No.: 04561.01 Checked by:

E0102.A

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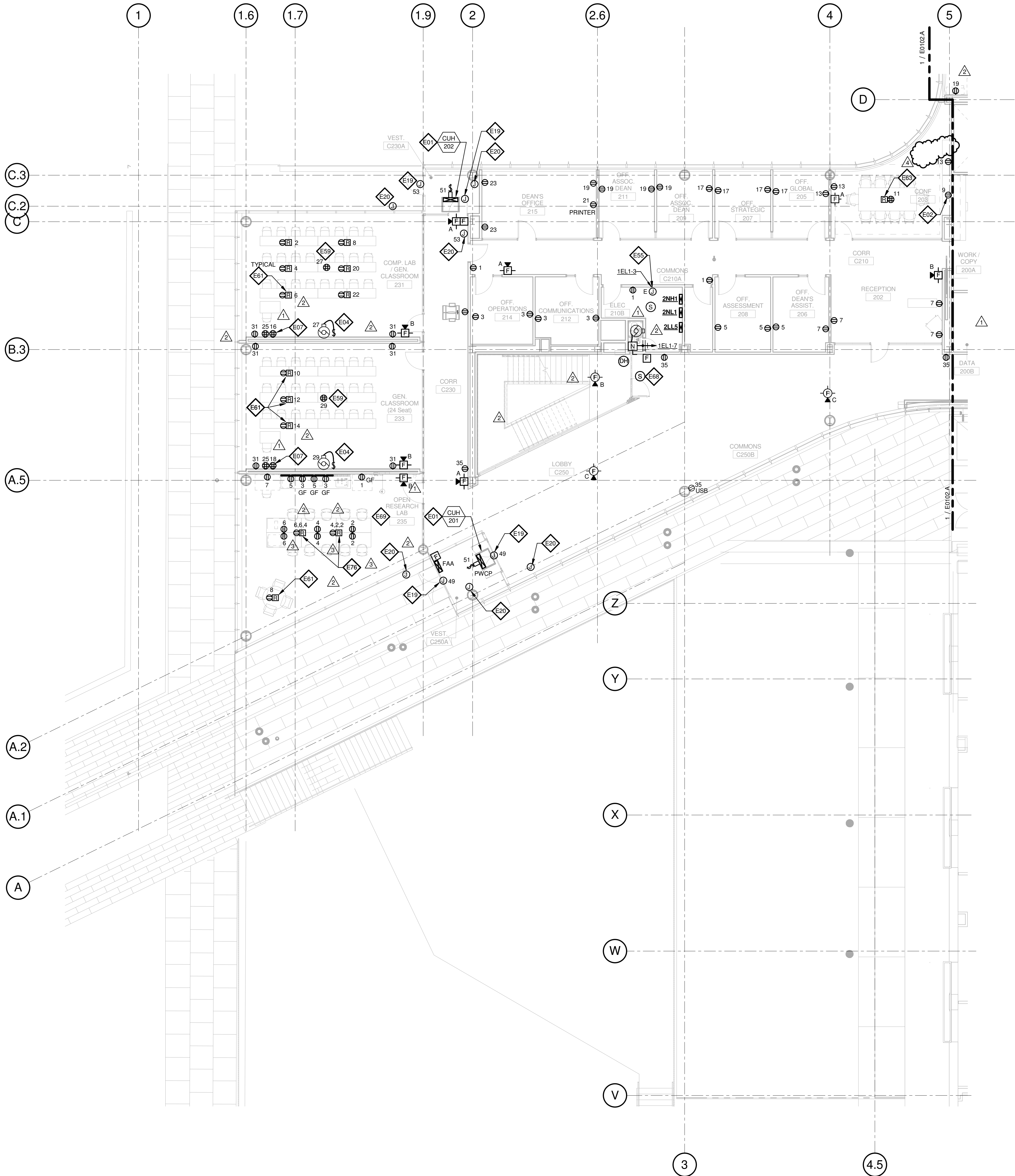
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- ALL SINGLE PHASE BRANCH CIRCUITS SHOWN SHALL HAVE DEDICATED NEUTRALS TO MEET NEC SECTION 210.4 MULTI-WIRE BRANCH CIRCUIT REQUIREMENTS.
- REFER TO TECHNOLOGY DRAWINGS FOR CONDUIT ROUGH-IN OF DATA, VOICE AND A/V.

- ALL 120V BRANCH CIRCUITS ON THIS SHEET SHALL BE FED FROM PANEL 2NL1 UNLESS NOTED OTHERWISE.

KEYED NOTES

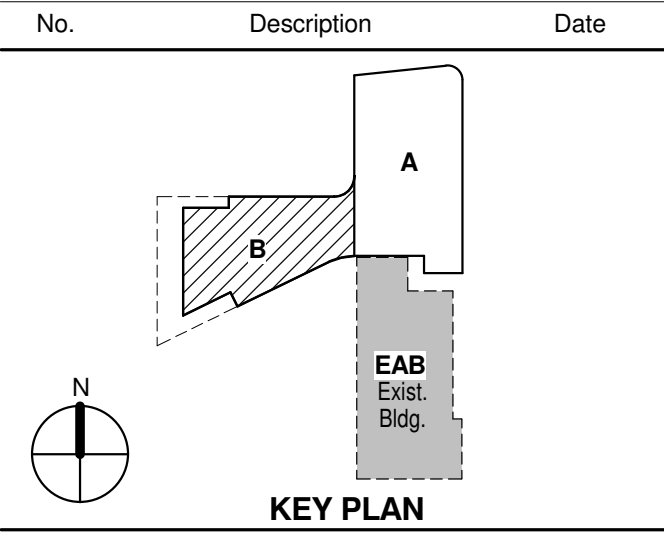
- E01** REFER TO EQUIPMENT DATA SCHEDULE FOR BRANCH CIRCUIT INFORMATION.
- E02** PROVIDE NEW RECEPTACLE FOR MONITOR, COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS AND TECHNOLOGY PLANS.
- E04** PROVIDE CONNECTION TO MOTORIZED PROJECTION SCREEN AND UP/DOWN CONTROLS.
- E06** OUTLET SHALL BE MOUNTED TO THE BACK SIDE OF THE TELECOMMUNICATION RACK AND FED FROM ABOVE. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH TELECOMMUNICATIONS CONTRACTOR PRIOR TO INSTALLATION.
- E07** OUTLET FOR RACK MOUNTED A/V EQUIPMENT, COORDINATE MOUNTING HEIGHT AND EXACT LOCATION WITH ARCHITECTURAL ELEVATIONS AND A/V DRAWINGS.
- E17** PROVIDE NEMA 6-30R, 30A-208V RECEPTACLE FOR PRINTER. CONTRACTOR SHALL VERIFY PRINTER PLUG TYPE WITH OWNERS REPRESENTATIVE PRIOR TO ROUGH-IN.
- E19** PROVIDE POWER AND FINAL CONNECTION TO ELECTRIC DOOR OPENER. COORDINATE POWER REQUIREMENTS WITH DOOR INSTALLER PRIOR TO ROUGH-IN.
- E20** PROVIDE POWER AND FINAL CONNECTION TO ELECTRIC DOOR OPENER CONTROLS. COORDINATE EXACT LOCATION WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.
- E55** PROVIDE POWER TO BUILDING AUTOMATION SYSTEM PANEL. COORDINATE LOCATION WITH AUTOMATION CONTRACTOR.
- E59** PROVIDE NEW QUAD RECEPTACLE FLUSH MOUNTED IN CEILING FOR PROJECTOR. VERIFY EXACT LOCATION WITH ARCHITECTURAL AND A/V DRAWINGS.
- E61** PROVIDE A 2HR FIRE CLASSIFIED 2-GANG MULTI-SERVICE STEEL RECESSED FLOOR BOX EQUAL TO WIREMOLD CAT. NO. RFB2S-FC WITH A BRASS FLANGED COVER CAT. NO. FPBTOBS-NA. THE FLOOR BOX SHALL HAVE ALL NECESSARY MOUNTING BRACKETS FOR (1) 20A DUPLEX RECEPTACLE, (1) GANG - DATA/VOICE (SEE TECHNOLOGY DRAWINGS FOR DEVICE TYPE), THE BOX SHALL BE INSTALLED PER MANUFACTURERS WRITTEN INSTRUCTIONS SO THAT THE COVER IS FLUSH WITH THE FLOOR.
- E63** PROVIDE A 2HR FIRE CLASSIFIED 4-GANG MULTI-SERVICE STEEL RECESSED FLOOR BOX EQUAL TO WIREMOLD CAT. NO. RFB4S-FC WITH A BRASS FLANGED COVER CAT. NO. FPBTOBS-NA. THE FLOOR BOX SHALL HAVE ALL NECESSARY MOUNTING BRACKETS FOR (2) 20A DUPLEX RECEPTACLE, (1) GANG - DATA/VOICE (SEE TECHNOLOGY DRAWINGS FOR DEVICE TYPE), (1) GANG - A/V (SEE A/V DRAWINGS FOR DEVICE TYPES). THE BOX SHALL BE INSTALLED PER MANUFACTURERS WRITTEN INSTRUCTIONS SO THAT THE COVER IS FLUSH WITH THE FLOOR.
- E68** PROVIDE FIRE ALARM CONTROL MODULE TO RELEASE POWER TO ELECTRICALLY HELD OPEN FIRE DOOR UPON ACTIVATION OF ASSOCIATED SMOKE DETECTOR.
- E69** ALL 120V BRANCH CIRCUITS IN THIS ROOM SHALL BE FED FROM PANEL 2LL5.
- E70** PROVIDE NEMA L5-20R, 20A-120V TWIST LOCK RECEPTACLE FOR RACK MOUNTED PDU. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH TECHNOLOGY CONTRACTOR.
- E76** PROVIDE A 2HR FIRE CLASSIFIED 4-GANG MULTI-SERVICE STEEL RECESSED FLOOR BOX EQUAL TO WIREMOLD CAT. NO. RFB4S-FC WITH A BRASS FLANGED COVER CAT. NO. FPBTOBS-NA. THE FLOOR BOX SHALL HAVE ALL NECESSARY MOUNTING BRACKETS FOR (3) 20A STANDARD DUPLEX RECEPTACLES, NEMA 5-20R, (1) GANG - DATA/VOICE (SEE TECHNOLOGY DRAWINGS FOR DEVICE TYPE), THE BOX SHALL BE INSTALLED PER MANUFACTURERS WRITTEN INSTRUCTIONS SO THAT THE COVER IS FLUSH WITH THE FLOOR.



1 LEVEL 02 - AREA B - FLOOR PLAN - POWER AND AUXILLARY

1/8" = 1'-0"

4	ASI-035	10 NOV 2016
3	ASI-017	14 OCT 2016
2	ADDENDUM 2-2	19 APRIL 2016
1	ADDENDUM 2-1	17 MAR 2016
-	ISSUED FOR CONSTRUCTION (BP2)	01 MAR 2016



Drawing Title:

LEVEL 02 AREA B FLOOR PLAN - ELECTRICAL & AUXILIARY

Project No.: 04561.01 Checked by:

E0102.B

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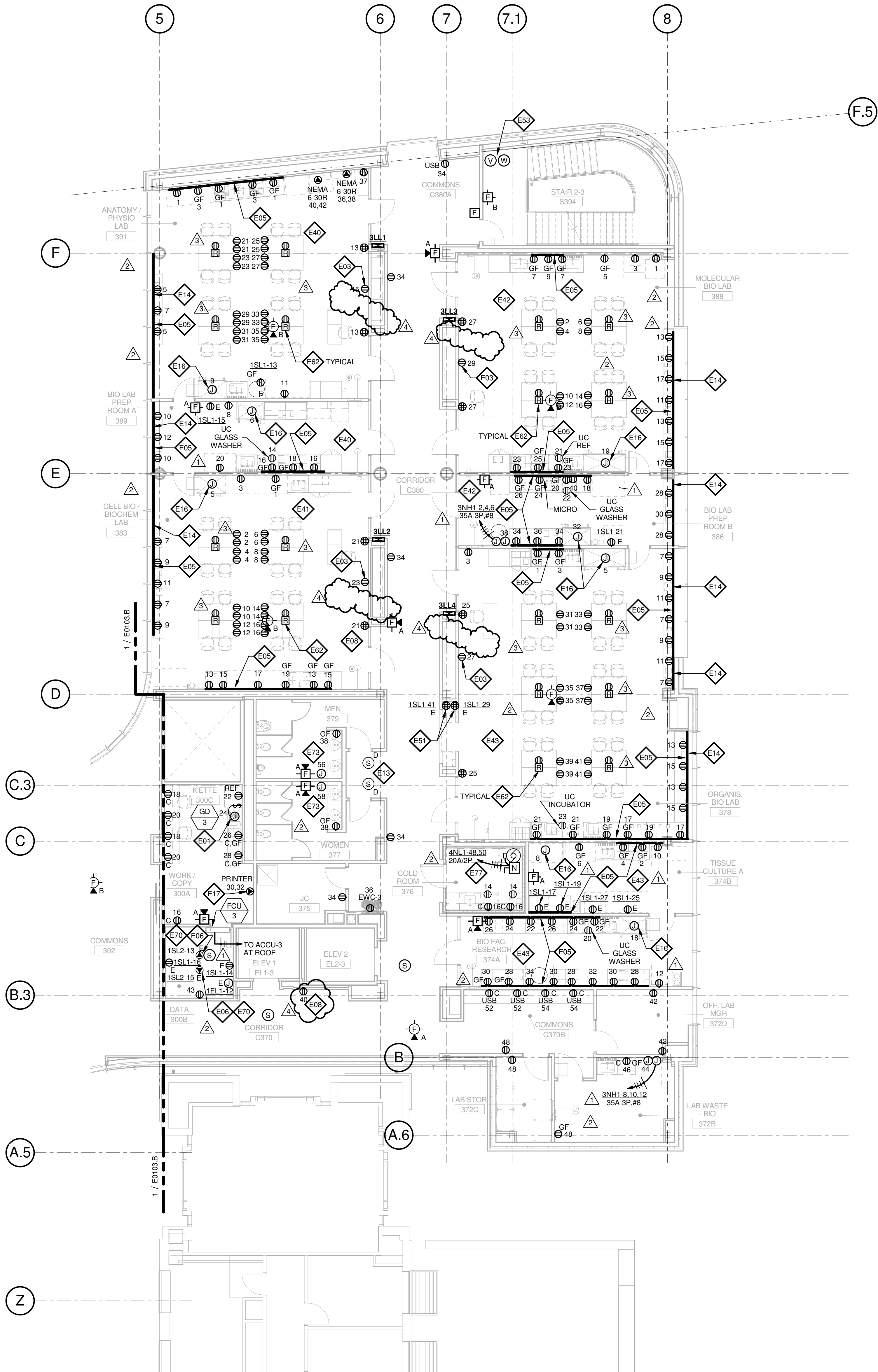
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- ALL SINGLE PHASE BRANCH CIRCUITS SHOWN SHALL HAVE DEDICATED NEUTRALS TO MEET NEC SECTION 210.4 MULTI-WIRE BRANCH CIRCUIT REQUIREMENTS.
- REFER TO TECHNOLOGY DRAWINGS FOR CONDUIT ROUGH-IN OF DATA, VOICE AND A/V.
- ALL 120V BRANCH CIRCUITS ON THIS SHEET SHALL BE FED FROM PANEL 3NLL1 UNLESS NOTED OTHERWISE.

KEYED NOTES

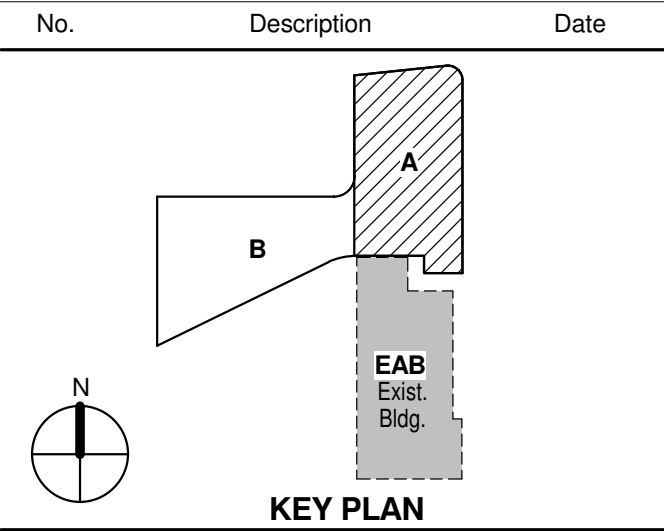
- E01 REFER TO EQUIPMENT DATA SCHEDULE FOR BRANCH CIRCUIT INFORMATION.
- E03 PROVIDE NEW RECEPTACLE FOR WALL MOUNTED PROJECTOR. VERIFY EXACT LOCATION AND MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS AND A/V DRAWINGS.
- E05 PROVIDE NEW TWO SECTION ALUMINUM RACEWAY, WIREMOLD AL4320 WITH RECEPTACLES MOUNTED 24" ON CENTER UNLESS NOTED OR SHOWN OTHERWISE. PROVIDE ALL ACCESSORIES FOR A COMPLETE INSTALLATION. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHT AND LENGTH. SEE DETAILS ON SHEET E402.
- E06 OUTLET SHALL BE MOUNTED TO THE BACK SIDE OF THE TELECOMMUNICATION RACK AND FED FROM ABOVE. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH TELECOMMUNICATIONS CONTRACTOR PRIOR TO INSTALLATION.
- E08 OUTLET FOR DIGITAL SIGNAGE, COORDINATE MOUNTING HEIGHT AND EXACT LOCATION WITH ARCHITECTURAL ELEVATIONS AND A/V DRAWINGS.
- E13 PROVIDE A DUCT MOUNTED SMOKE DETECTOR(S) AT RETURN AIR GRILLE OF AHU-1 & AHU-2. BOTH AIR HANDLING UNITS SHALL SHUT DOWN UPON ACTIVATION OF THE DUCT MOUNTED SMOKE DETECTOR(S). PROVIDE REMOTE INDICATOR LIGHT(S) IN CEILING BELOW.
- E14 SURFACE RACEWAY AT EXTERIOR WINDOWS SHALL BE FED FROM BELOW OR FROM ADJACENT WALL OR COLUMN.
- E16 PROVIDE POWER AND FINAL CONNECTIONS TO FUME HOOD.
- E17 PROVIDE NEMA 6-30R, 30A-208V RECEPTACLE FOR PRINTER. CONTRACTOR SHALL VERIFY PRINTER PLUG TYPE WITH OWNERS REPRESENTATIVE PRIOR TO ROUGH-IN.
- E40 ALL 120V BRANCH CIRCUITS IN THIS ROOM SHALL BE FED FROM PANEL 3LL1.
- E41 ALL 120V BRANCH CIRCUITS IN THIS ROOM SHALL BE FED FROM PANEL 3LL2.
- E42 ALL 120V BRANCH CIRCUITS IN THIS ROOM SHALL BE FED FROM PANEL 3LL3.
- E43 ALL 120V BRANCH CIRCUITS IN THIS ROOM SHALL BE FED FROM PANEL 3LL4.
- E51 PROVIDE 20A GFCI QUAD RECEPTACLE WITH AUDIBLE ALARM ON EMERGENCY CIRCUIT FOR FISH TANK. COORDINATE EXACT LOCATION WITH ARCHITECTURAL PLANS AND ELEVATIONS.
- E53 COORDINATE QUANTITY AND LOCATION OF TAMPER AND FLOW SWITCHES WITH FIRE PROTECTION CONTRACTOR.
- E62 PROVIDE A 2HR FIRE CLASSIFIED 2-GANG MULTI-SERVICE STEEL RECESSED FLOOR BOX EQUAL TO WIREMOLD, CAT. NO. RFB2S-FC WITH A BRASS FLANGED COVER CAT. NO. FPB7CBS-NA. THE FLOOR BOX SHALL HAVE ALL NECESSARY MOUNTING BRACKETS FOR (2) 20A STANDARD DUPLEX RECEPTACLES. NEMA 5-20R. THE BOX SHALL BE INSTALLED PER MANUFACTURERS WRITTEN INSTRUCTIONS SO THAT THE COVER IS FLUSH WITH THE FLOOR.
- E70 PROVIDE NEMA LS-20R, 20A-120V TWIST LOCK RECEPTACLE FOR RACK MOUNTED PDU. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH TECHNOLOGY CONTRACTOR.
- E73 PROVIDE POWER AND FINAL CONNECTIONS FOR ELECTRIC HAND DRYER.
- E77 PROVIDE POWER TO EVAPORATOR COIL, LIGHTS, CONTROLS ETC. FOR A COMPLETE INSTALLATION OF WALK-IN COOLER.



1 LEVEL 03 - AREA A - FLOOR PLAN - POWER AND AUXILLARY

1/8" = 1'-0"

4	ASI-035	10 NOV 2016
3	ASI-017	14 OCT 2016
2	ADDENDUM 2-2	19 APRIL 2016
1	ADDENDUM 2-1	17 MAR 2016
-	ISSUED FOR CONSTRUCTION (BP2)	01 MAR 2016



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LEVEL 03 AREA A FLOOR PLAN - ELECTRICAL & AUXILIARY

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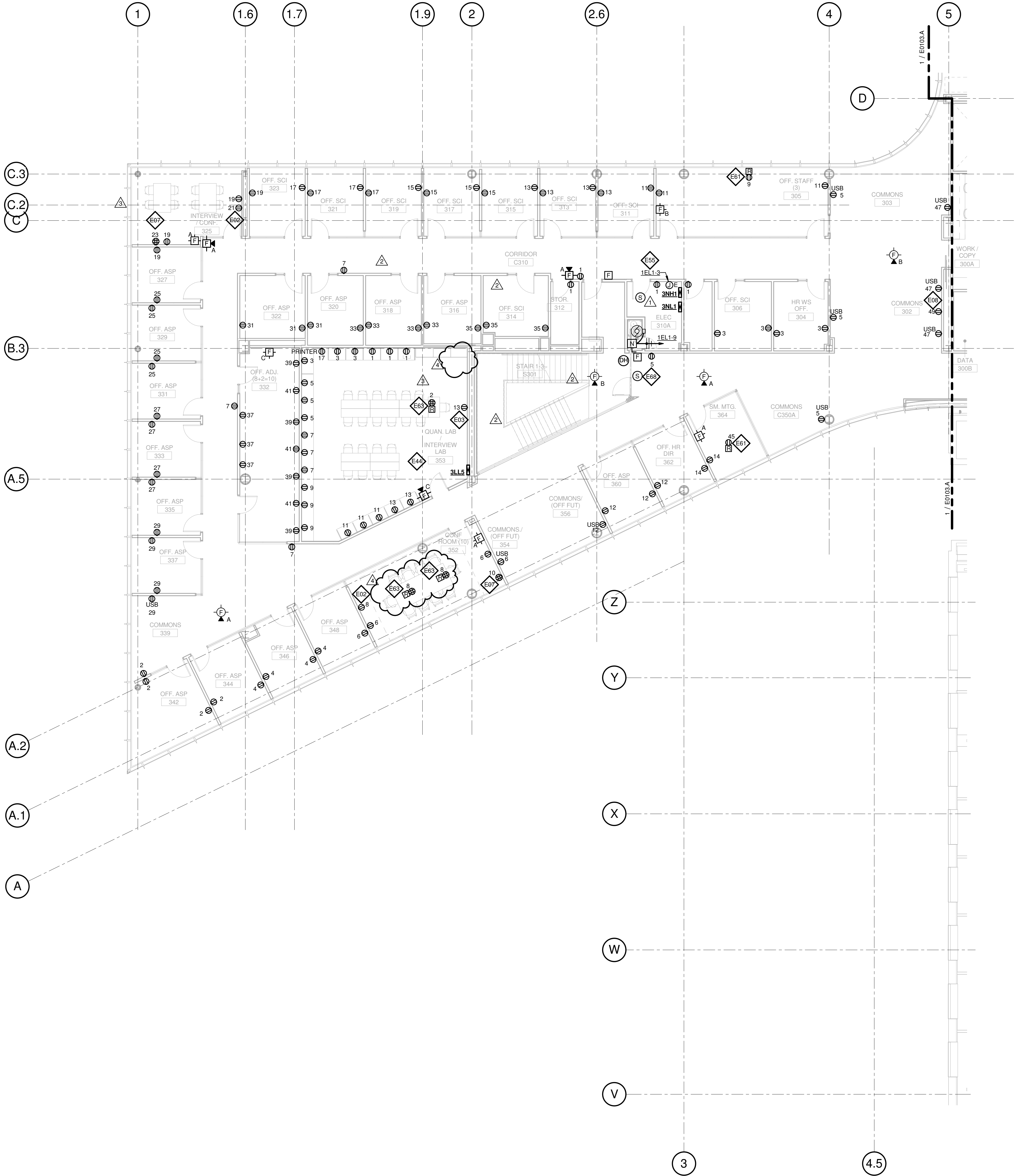
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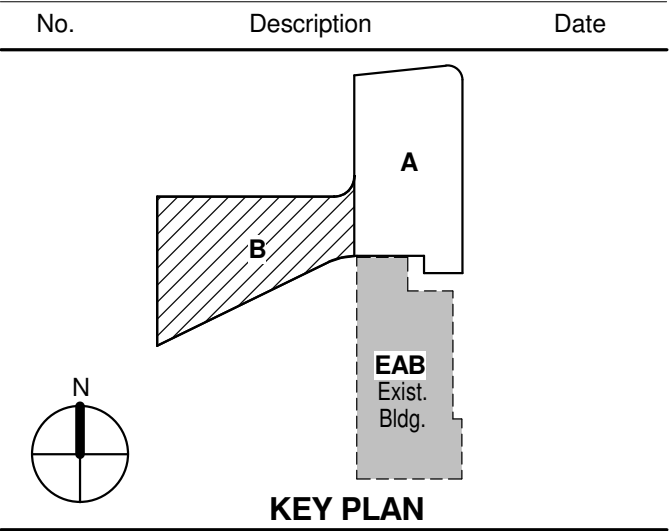
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- E07 OUTLET FOR RACK MOUNTED A/V EQUIPMENT, COORDINATE MOUNTING HEIGHT AND EXACT LOCATION WITH ARCHITECTURAL ELEVATIONS AND A/V DRAWINGS.
- E08 OUTLET FOR DIGITAL SIGNAGE, COORDINATE MOUNTING HEIGHT AND EXACT LOCATION WITH ARCHITECTURAL ELEVATIONS AND A/V DRAWINGS.
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- E44 ALL 120V BRANCH CIRCUITS IN THIS ROOM SHALL BE FED FROM PANEL 3LL5.
- E55 PROVIDE POWER TO BUILDING AUTOMATION SYSTEM PANEL. COORDINATE LOCATION WITH AUTOMATION CONTRACTOR.
- E61 PROVIDE A 2HR FIRE CLASSIFIED 2-GANG MULTI-SERVICE STEEL RECESSED FLOOR BOX EQUAL TO WIREMOLD CAT. NO. RFB2S-FC WITH A BRASS FLANGED COVER CAT. NO. FPBTCBS-NA. THE FLOOR BOX SHALL HAVE ALL NECESSARY MOUNTING BRACKETS FOR (1) 20A DUPLEX RECEPTACLE, (1) GANG - DATA/VOICE (SEE TECHNOLOGY DRAWINGS FOR DEVICE TYPE), THE BOX SHALL BE INSTALLED PER MANUFACTURERS WRITTEN INSTRUCTIONS SO THAT THE COVER IS FLUSH WITH THE FLOOR.
- E63 PROVIDE A 2HR FIRE CLASSIFIED 4-GANG MULTI-SERVICE STEEL RECESSED FLOOR BOX EQUAL TO WIREMOLD CAT. NO. RFB4S-FC WITH A BRASS FLANGED COVER CAT. NO. FPBTCBS-NA. THE FLOOR BOX SHALL HAVE ALL NECESSARY MOUNTING BRACKETS FOR (2) 20A DUPLEX RECEPTACLE, (1) GANG - DATA/VOICE (SEE TECHNOLOGY DRAWINGS FOR DEVICE TYPE), (1) GANG - A/V (SEE A/V DRAWINGS FOR DEVICE TYPES). THE BOX SHALL BE INSTALLED PER MANUFACTURERS WRITTEN INSTRUCTIONS SO THAT THE COVER IS FLUSH WITH THE FLOOR.
- E68 PROVIDE FIRE ALARM CONTROL MODULE TO RELEASE POWER TO ELECTRICALLY HELD OPEN FIRE DOOR UPON ACTIVATION OF ASSOCIATED SMOKE DETECTOR.
- E70 PROVIDE NEMA L5-20R, 20A-120V TWIST LOCK RECEPTACLE FOR RACK MOUNTED PDU. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH TECHNOLOGY CONTRACTOR.



1 LEVEL 03 - AREA B - FLOOR PLAN - POWER AND AUXILLARY

1/8" = 1'-0"

4	ASI-035	10 NOV 2016
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-	ISSUED FOR CONSTRUCTION (BP2)	01 MAR 2016



KEY PLAN

LEVEL 03 AREA B FLOOR PLAN - ELECTRICAL & AUXILIARY

Project No.: 04561.01 Checked by:

E0103.B

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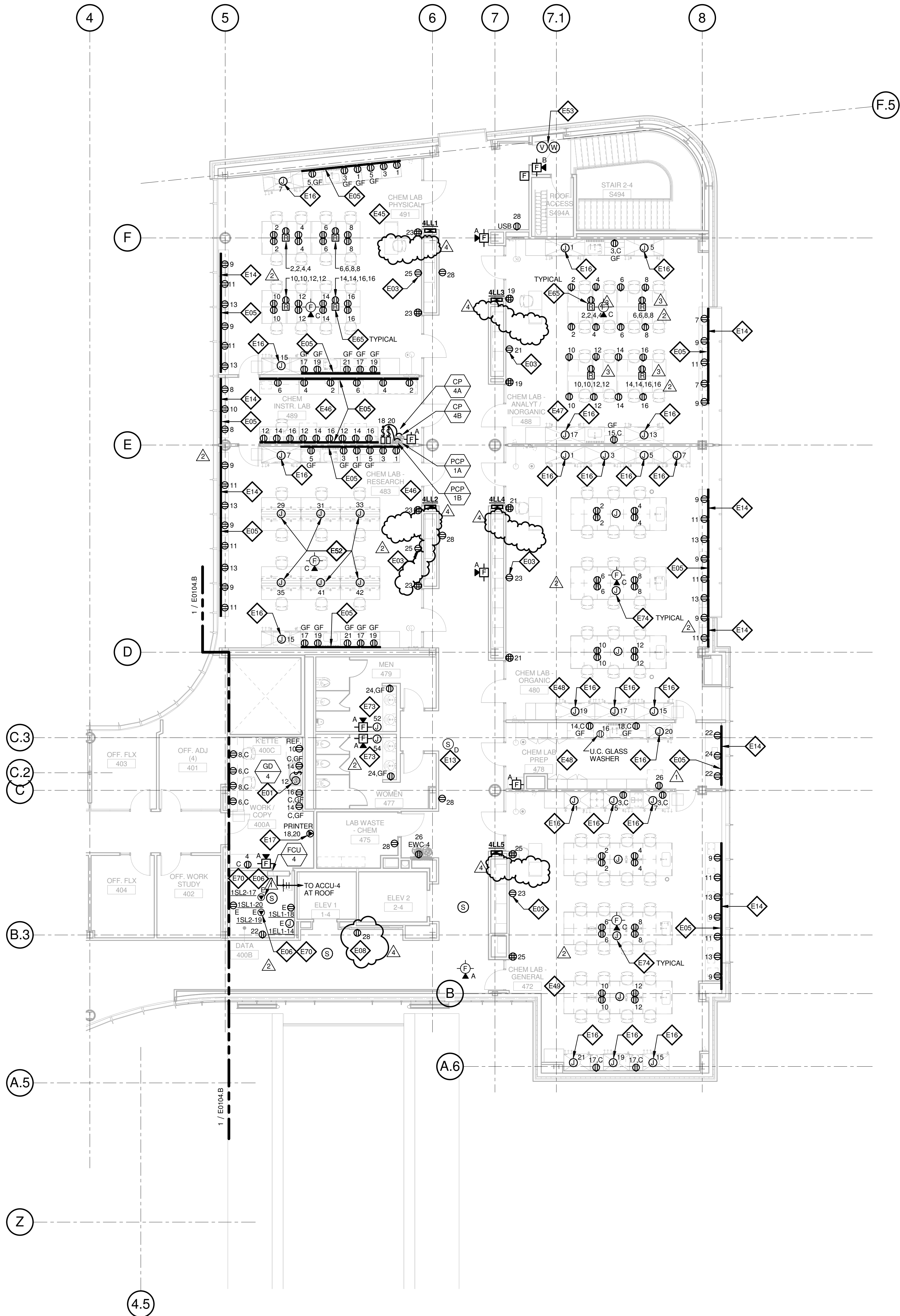
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GENERAL NOTES:

- DO NOT SCALE DRAWINGS. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR LOCATION AND ORIENTATION OF DEVICES. WHERE LOCATIONS ARE NOT INDICATED ON ARCHITECTURAL DRAWINGS, COORDINATE LOCATION AND ORIENTATION OF DEVICES IN FIELD WITH ARCHITECT PRIOR TO ROUGH-IN.
- ALL DEVICES SHOWN ARE NEW UNLESS NOTED OTHERWISE.
- ALL DEVICES TO REMAIN ARE INDICATED WITH A THIN SOLID LINE WEIGHT AND SUBSCRIPT "EX".
- CONTRACTOR SHALL VISIT PRIOR TO BID SUBMITTALS TO DETERMINE SITE CONDITIONS EFFECTING THE EXECUTION OF WORK. FAILURE TO BE ACQUAINTED WITH EXISTING CONDITIONS WILL NOT BE JUSTIFICATION FOR ADDITIONAL SERVICES.
- PROVIDE FACE PLATES ON ALL J-BOXES ABANDONED IN FINISHED FLOOR, WALL OR CEILINGS. COORDINATE COLOR AND FINISH WITH ARCHITECT. CONTRACTOR TO VERIFY QUANTITY IN THE FIELD.
- WHERE EXPOSED CONDUIT IS NOTED, CONTRACTOR SHALL IDENTIFY ROUTING IN FIELD AND OBTAIN ARCHITECT'S APPROVAL OF ROUTING PRIOR TO ROUGH-IN. EXPOSED CONDUIT SHALL BE ROUTED TIGHT TO STRUCTURE.
- ALL SINGLE PHASE BRANCH CIRCUITS SHOWN SHALL HAVE DEDICATED NEUTRALS. TO MEET NEC SECTION 210.4 MULTI-WIRE BRANCH CIRCUIT REQUIREMENTS.
- REFER TO TECHNOLOGY DRAWINGS FOR CONDUIT ROUGH-IN OF DATA, VOICE AND AV.
- ALL 120V BRANCH CIRCUITS ON THIS SHEET SHALL BE FED FROM PANEL 4NLL1 UNLESS NOTED OTHERWISE.

KEYED NOTES

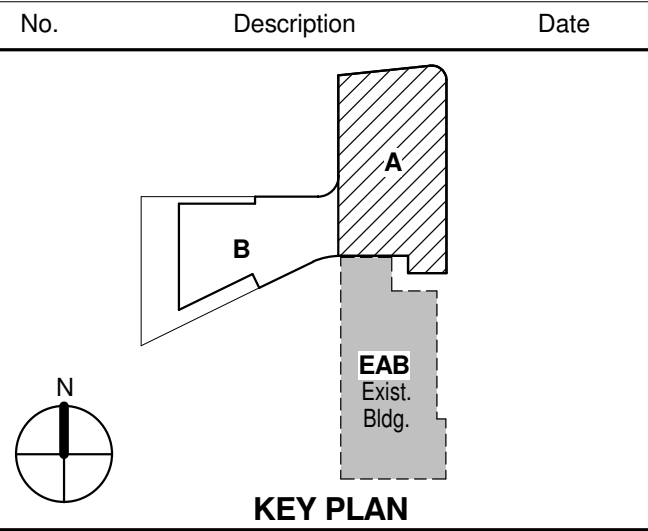
- E01 REFER TO EQUIPMENT DATA SCHEDULE FOR BRANCH CIRCUIT INFORMATION.
- E03 PROVIDE NEW RECEPTACLE FOR WALL MOUNTED PROJECTOR. VERIFY EXACT LOCATION AND MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS AND A/V DRAWINGS.
- E05 PROVIDE NEW TWO SECTION ALUMINUM RACEWAY, WIREMOLD AL4320 WITH RECEPTACLES MOUNTED 24" ON CENTER UNLESS NOTED OR SHOWN OTHERWISE. PROVIDE ALL ACCESSORIES FOR A COMPLTE INSTALLATION. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHT AND LENGTH. SEE DETAILS ON SHEET E402.
- E06 OUTLET SHALL BE MOUNTED TO THE BACK SIDE OF THE TELECOMMUNICATION RACK AND FED FROM ABOVE. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH TELECOMMUNICATIONS CONTRACTOR PRIOR TO INSTALLATION.
- E08 OUTLET FOR DIGITAL SIGNAGE, COORDINATE MOUNTING HEIGHT AND EXACT LOCATION WITH ARCHITECTURAL ELEVATIONS AND A/V DRAWINGS.
- E13 PROVIDE A DUCT MOUNTED SMOKE DETECTOR(S) AT RETURN AIR GRILLE OF AHU-1 & AHU-2. BOTH AIR HANDLING UNITS SHALL SHUT DOWN UPON ACTIVATION OF THE DUCT MOUNTED SMOKE DETECTOR(S). PROVIDE REMOTE INDIATOR LIGHT(S) IN CEILING BELOW.
- E14 SURFACE RACEWAY AT EXTERIOR WINDOWS SHALL BE FED FROM BELOW OR FROM ADJACENT WALL OR COLUMN.
- E16 PROVIDE POWER AND FINAL CONNECTIONS TO FUME HOOD.
- E17 PROVIDE NEMA 6-30R, 30A-208V RECEPTACLE FOR PRINTER. CONTRACTOR SHALL VERIFY PRINTER PLUG TYPE WITH OWNERS REPRESENTATIVE PRIOR TO ROUGH-IN.
- E45 ALL 120V BRANCH CIRCUITS IN THIS ROOM SHALL BE FED FROM PANEL 4LL1.
- E46 ALL 120V BRANCH CIRCUITS IN THIS ROOM SHALL BE FED FROM PANEL 4LL2.
- E47 ALL 120V BRANCH CIRCUITS IN THIS ROOM SHALL BE FED FROM PANEL 4LL3.
- E48 ALL 120V BRANCH CIRCUITS IN THIS ROOM SHALL BE FED FROM PANEL 4LL4.
- E49 ALL 120V BRANCH CIRCUITS IN THIS ROOM SHALL BE FED FROM PANEL 4LL5.
- E52 PROVIDE POWER AND FINAL CONNECTIONS TO OVERHEAD SERVICE CARRIER. REFER TO LIGHTING PLANS FOR LIGHTING CIRCUITS. COORDINATE WITH ARCHITECTURAL PLANS AND ELEVATIONS.
- E53 COORDINATE QUANTITY AND LOCATION OF TAMPER AND FLOW SWITCHES WITH FIRE PROTECTION CONTRACTOR.
- E65 PROVIDE A 2HR FIRE CLASSIFIED 4-GANG MULTI-SERVICE STEEL RECESSED FLOOR BOX EQUAL TO WIREMOLD CAT. NO. FB2S-FC WITH A BRASS FLANGED COVER CAT. NO. FPBTCS-NA. THE FLOOR BOX SHALL HAVE ALL NECESSARY MOUNTING BRACKETS FOR (4) 20A STANDARD DUPLEX RECEPTACLES, NEMA 5-20R. THE BOX SHALL BE INSTALLED PER MANUFACTURERS WRITTEN INSTRUCTIONS SO THAT THE COVER IS FLUSH WITH THE FLOOR.
- E70 PROVIDE NEMA L5-20R, 20A-120V TWIST LOCK RECEPTACLE FOR RACK MOUNTED PDU. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH TECHNOLOGY CONTRACTOR.
- E73 PROVIDE POWER AND FINAL CONNECTIONS FOR ELECTRIC HAND DRYER.
- E74 FEED FIXED FURNITURE FROM BELOW AND MAKE ALL FINAL CONNECTIONS TO RECEPTACLES.



1 LEVEL 04 - AREA A - FLOOR PLAN - POWER AND AUXILLARY

1/8" = 1'-0"

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**LEVEL 04 AREA A FLOOR
PLAN - ELECTRICAL &
AUXILIARY**

Project No.: 04561.01 Checked by:

E0104.A

ABBREVIATIONS

A.C.S.	-	ACCESS CONTROL SYSTEM
A.F.F.	-	ABOVE FINISHED FLOOR
AJH	-	AUTHORITY HAVING JURISDICTION
AV	-	AUDIO / VISUAL
BAS	-	BUILDING AUTOMATION SYSTEM
B.C.	-	BELOW CEILING
C	-	CONDUIT
CAM	-	CAMERA
CB	-	CIRCUIT BREAKER
DN	-	DOWN
DWG	-	DRAWING
EAB	-	EAST ACADEMIC BUILDING
EF	-	ENTRANCE FACILITY
ELEC	-	ELECTRIC OR ELECTRICAL
EMT	-	ELECTRICAL METALLIC TUBING
ER	-	EXISTING RELOCATED
ETR	-	EXISTING TO REMAIN
FA	-	FIRE ALARM
FO	-	FIBER OPTIC
FS	-	FUSIBLE SWITCH
G.C.	-	GENERAL CONTRACTOR
GF	-	GROUND FAULT
GFCI	-	GROUND FAULT CIRCUIT INTERRUPTER
GND	-	GROUND
HH	-	HANDHOLE
IDF	-	INTERMEDIATE DISTRIBUTION FRAME
IMC	-	INTERMEDIATE METAL CONDUIT
IP	-	INTERNET PROTOCOL
IPS	-	IMAGES PER SECOND
I/O	-	INPUT/OUTPUT
IS	-	INFORMATION SYSTEMS
LAN	-	LOCAL AREA NETWORK
LCD	-	LIQUID CRYSTAL DISPLAY
LED	-	LIGHT EMITTING DIODE
MATV	-	MASTER ANTENNA TELEVISION
MC	-	METAL CLAD
MCC	-	MOTOR CONTROL CENTER
MCP	-	MOTOR CONTROL PANEL
MDF	-	MAIN DISTRIBUTION FRAME
MH	-	MANHOLE
MMFO	-	MULTIMODE FIBER OPTIC
MTR	-	MAIN TELECOM ROOM
MT	-	EMPTY CONDUIT
NC	-	NOT IN CONTRACT
OSP	-	OUTSIDE PLANT
OFVI	-	OWNER FURNISHED VENDOR INSTALLED
PA	-	PUBLIC ADDRESS
POE	-	POWER OVER ETHERNET
PP	-	PATCH PANEL
PR	-	PAIR
PDS	-	PREMISE DISTRIBUTION SYSTEM
PVC	-	POLYVINYL CHLORIDE CONDUIT
R	-	RECESSED
RMU	-	RACK MOUNTING UNIT
SHLD	-	SHIELDED (AS IN CABLE)
SMFO	-	SINGLEMODE FIBER OPTIC
STR	-	STRAND
T	-	TELEPHONE
TTB	-	TELEPHONE TERMINAL BOARD
TVSS	-	TRANSIENT VOLTAGE SURGE SUPPRESSOR
TYP.	-	TYPICAL
U.G.	-	UNDERGROUND
UNG	-	UNGROUND
UPS	-	UNINTERRUPTIBLE POWER SUPPLY
UTP	-	UNSHIELDED TWISTED PAIR
U.O.N.	-	UNLESS OTHERWISE NOTED
VOIP	-	VOICE OVER INTERNET PROTOCOL
VSS	-	VIDEO SURVEILLANCE SYSTEM
VT	-	VOLTAGE TRANSFORMER
WT	-	WATERTIGHT
XP	-	EXPLOSION PROOF
WAP	-	WIRELESS ACCESS POINT
WP	-	WEATHER-PROOF

WIRING PLANS

	CONDUIT RUN CONCEALED IN CEILING OR WALL CONSTRUCTION
	CONDUIT RUN IN FLOOR CONSTRUCTION OR UNDERGROUND
	CONDUIT RUN EXPOSED
	CONDUIT TURNING UP
	CONDUIT TURNING DOWN
	CONDUIT STUB
	BASKET TRAY
BOBT: X-X' = BOTTOM OF BASKET TRAY ELEVATION ABOVE FINISH FLOOR	

JUNCTION AND PULL BOXES

	JUNCTION BOX
	WALL MOUNTED AUDIO VISUAL BACK BOX. PROVIDE A 4-11/16" X 2-1/8" DEEP BOX WITH A 2 GANG RING (VERTICAL) AND 1" CONDUIT STUBBED INTO ACCESSIBLE CEILING SPACE, UNLESS OTHERWISE NOTED ON PLANS.
	WALL MOUNTED AUDIO VISUAL BACK BOX. PROVIDE A HUBBELL 3-GANG LARGE CAPACITY BOX (#HBL263) WITH A 3-GANG RING AND (2) 1 1/2" CONDUITS STUBBED INTO ACCESSIBLE CEILING SPACE, UNLESS OTHERWISE NOTED ON PLANS.
	WALL MOUNTED TOUCH PAD BOX. BACKBOX FURNISHED BY AV VENDOR, INSTALLED BY CONTRACTOR. PROVIDE 1" CONDUIT STUBBED INTO ACCESSIBLE CEILING SPACE. MOUNT AT LIGHT SWITCH HEIGHT.
	WALL MOUNTED MONITOR BOX. PROVIDE A 4-11/16" SQUARE X 2-1/8" DEEP BOX WITH A SINGLE RING (VERTICAL) AND 1" CONDUIT STUBBED INTO ACCESSIBLE CEILING SPACE, UNLESS OTHERWISE NOTED ON PLANS.
	WALL MOUNTED TEACHING STATION. PROVIDE A 4-11/16" SQUARE X 2-1/8" DEEP BOX WITH A SINGLE RING (VERTICAL) AND 1" CONDUIT STUBBED INTO ACCESSIBLE CEILING SPACE, UNLESS OTHERWISE NOTED ON PLANS.
	PULL BOX
	WALL MOUNTED PROJECTOR BOX. PROVIDE A 4-11/16" SQUARE X 2-1/8" DEEP BOX WITH A SINGLE RING (VERTICAL) AND 1" CONDUIT STUBBED INTO ACCESSIBLE CEILING SPACE, UNLESS OTHERWISE NOTED ON PLANS. COORDINATE HEIGHT AND LOCATION WITH PROJECTOR INSTALLER

ACCESS CONTROL SYSTEM

	MAGNETIC STRIPE TYPE CARD READER. MOUNT AT 48" A.F.F.
	MAGNETIC STRIPE TYPE CARD READER. MULLION MOUNT AT 48" A.F.F.
	ACCESS CONTROL PANEL
	DOOR INTERFACE BOX
	DOOR CONTACT SWITCH
	POWER SUPPLY
	ELECTRIC STRIKE
	ELECTRIFIED PANIC BAR

TELECOM GROUNDING

	TELECOM MAIN GROUND BUS BAR
	TELECOM GROUND BUS BAR

DRAWING REFERENCES

	DETAIL NUMBER
	PLAN DETAIL REFERENCE TITLE
	DRAWING NUMBER
	KEYED NOTE DESIGNATION
	SECTION NUMBER
	SECTION REFERENCE TITLE
	DRAWING NUMBER
	SECURED DOOR DETAIL REFERENCE
	X - DOOR DETAIL
	Y - DOOR DETAIL SHEET NUMBER
	Z - DOOR NUMBER

SECURITY CAMERAS

SECURITY CAMERA DETAIL REFERENCE	
A- RECESSED, ACCESSIBLE CEILING	
B- RECESSED, INACCESSIBLE CEILING	
C- OUTDOOR, WALL MOUNTED SEE DETAIL ON SHEET T0802	
	FIXED CAMERA CAM 1-1 = CAMERA TAG
	PAN-TILT-ZOOM CAMERA CAM 1-1 = CAMERA TAG

AUDIO/VISUAL CAMERAS

	FIXED CAMERA
	PAN-TILT-ZOOM CAMERA

TELECOMMUNICATIONS SYSTEM

	WALL MOUNTED COMMUNICATIONS OUTLET. MOUNT 18" A.F.F. PROVIDE 4 11/16" SQUARE X 3" DEEP BOX WITH 1 GANG RING (FOR 4 JACKS) OR 2 GANG (FOR 8 JACKS) (VERTICAL) AND 1" CONDUIT STUBBED INTO ACCESSIBLE CEILING SPACE (1" FOR UP TO (6) CABLES, 1 1/4" FOR UP TO 11 CABLES), UNLESS NOTED OTHERWISE ON PLANS. PROVIDE INDICATED QUANTITY OF CATEGORY 6A CABLES TO DATA ROOM IDENTIFIED ON PLANS.
	CEILING MOUNTED COMMUNICATIONS OUTLET. FLUSH MOUNT FACING DOWN, UNLESS NOTED OTHERWISE ON PLANS. PROVIDE 4 11/16" SQUARE X 3" DEEP BOX WITH 1 GANG RING AND 1" CONDUIT STUBBED INTO ACCESSIBLE CEILING SPACE, UNLESS NOTED OTHERWISE ON PLANS. PROVIDE INDICATED QUANTITY OF CATEGORY 6A CABLES TO DATA ROOM IDENTIFIED ON PLANS.
	FLOOR MOUNTED COMMUNICATIONS OUTLET. PROVIDE INDICATED QUANTITY OF CATEGORY 6A CABLES TO DATA ROOM IDENTIFIED ON PLANS. PROVIDE DATA OUTLET FACEPLATES THAT ARE COMPATIBLE WITH THE SPECIFIED FLOOR BOXES OR POKE THROUGH FITTINGS.
TELECOMMUNICATIONS OUTLET IDENTIFIERS	
#- CABLE QUANTITY (NO NUMBER DENOTES QUANTITY OF 1)	
C- MOUNT BOTTOM OF OUTLET BOX 1" ABOVE HIGHEST ELEMENT OF COUNTER (IE: BACKSPLASH, OR COUNTERTOP IF NO BACKSPLASH)	
W- WALL MOUNT AT 48" A.F.F.	
F- MOUNT IN BASE OF SYSTEMS FURNITURE PANEL	
KP- KEYPAD DOOR LOCK	
SIGN- DYNAMIC SIGN	
FO- FIBER OPTIC CABLE (REFER TO PLANS FOR CABLE TYPE)	
PA- VOICE OVER INTERNET PROTOCOL SPEAKER	
WAP- WIRELESS ACCESS POINT CONNECTION. PROVIDE 2-PORT OUTLET ABOVE ACCESSIBLE CEILING. PROVIDE (2) CAT6A CABLES TO DATA ROOM IDENTIFIED ON PLANS.	
AV- AUDIOVISUAL CAMERA CONNECTION. PROVIDE 1-PORT OUTLET ON CEILING.	
PROVIDE (1) CAT6A CABLE TO DATA ROOM IDENTIFIED ON PLANS.	
P- PROJECTOR. PROVIDE 2-PORT OUTLET AND (2) CAT 6A CABLES TO DATA ROOM IDENTIFIED ON PLANS	
	TV OUTLET - CEILING MOUNT COMBINATION F-TYPE MODULE AND DUPLEX/RECEPTACLE OUTLET UNDER A COMMON COVERPLATE.
	PROVIDE ONE (1)RG-6/U COAXIAL TO LOCATION IDENTIFIED ON DRAWINGS.

PUBLIC ADDRESS SYSTEM

	PUBLIC ADDRESS SYSTEM SPEAKER
	FLUSH VOLUME CONTROL - 48" A.F.F.

INTERCOM SYSTEM

	WALL MOUNT EMERGENCY INTERCOM STATION WITH BLUE LIGHT /STROBE
--	---

GENERAL NOTES

- THE DRAWINGS HAVE BEEN PREPARED UTILIZING EXISTING DRAWINGS AND BUILDING OBSERVATIONS AND MAY NOT SHOW ALL CONDITIONS. CONTRACTOR SHALL VISIT THE BUILDING AND SITE PRIOR TO BID SUBMISSION AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS. CONTRACTOR WILL NOT BE ALLOWED ADDITIONAL FUNDS OR TIME DUE TO THE CONTRACTOR'S FAILURE TO BECOME FAMILIAR WITH ALL EXISTING CONDITIONS.
- ACCEPTANCE OF CONTRACT MEANS INSTALLER ACCEPTS EXISTING CONDITIONS.
- COORDINATE INSTALLATION WITH EXISTING CONDITIONS. FIELD VERIFY EXISTING CONDITIONS.
- ALL PENETRATIONS THROUGH CONCRETE OR MASONRY WALLS AND FLOOR SLABS SHALL BE CORE DRILLED. AFTER CONDUITS HAVE BEEN INSTALLED, SEAL WALL AROUND CONDUIT TO MAINTAIN FIRE RATING OF FLOOR OR WALL USING UL LISTED METHODS AND MATERIALS. EXTERIOR WALLS SHALL BE SEALED WATERTIGHT.
- PROVIDE ELECTRICAL METALLIC TUBING (EMT) SLEEVES WITH INSULATED BUSHINGS ON EACH END FOR ALL CABLES PASSING THROUGH WALLS AND FLOORS. ALL PENETRATIONS THROUGH RATED WALLS AND FLOORS SHALL BE FIRESTOPPED. SEAL AROUND OUTSIDE OF CONDUITS AND SEAL INSIDE OF CONDUIT SLEEVES. REFER TO PLANS FOR ADDITIONAL FIRESTOPPING DEVICES AND REQUIREMENT, AND SPECIFICATION SECTION 078413.
- CABLING TO BE LOCATED INSIDE BUILDINGS SHALL BE CONCEALED AND SHALL BE INSTALLED AS FOLLOWS: CABLES CONCEALED INSIDE HOLLOW WALL CONSTRUCTION SHALL BE INSTALLED IN CONDUITS STUBBED INTO ACCESSIBLE CEILING CAVITIES. CABLES INSTALLED IN ACCESSIBLE CEILING CAVITIES SHALL BE SUPPORTED WITH CATEGORY 6 RATED 1" HOOK SUPPORTS LOCATED AT A MAXIMUM OF 4'-0" ON CENTER. CABLES LOCATED IN ROOMS WITH AN EXPOSED CEILING STRUCTURE SHALL BE INSTALLED IN CONDUIT. CABLES INSTALLED ABOVE DRYWALL CEILINGSS SHALL BE INSTALLED IN CONDUIT. ROUTE CONDUIT AND CABLES TO SUIT FIELD CONDITIONS. PROVIDE INSULATED BUSHING ON CONDUITS STUBBED INTO CEILING CAVITY.
- CONTRACTOR SHALL COORDINATE ALL CONDUIT AND CABLE ROUTING WITH EXISTING CONDITIONS PRIOR TO INSTALLATION.
- CONTRACTOR SHALL TERMINATE AND TEST ALL TELECOMMUNICATIONS SYSTEM CABLES, INCLUDING FIBER OPTIC CABLES, PER THE LATEST VERSION OF THE TIA/EIA-568 STANDARD. PROVIDE TEST RESULTS TO ENGINEER FOR FINAL ACCEPTANCE. CABLES NOTED AS SPARE OR FUTURE SHALL BE TERMINATED, TESTED, LABELED AND LEFT PROTECTED FOR FUTURE USE. SEE SPECIFICATION FOR ADDITIONAL INFORMATION.
- CATEGORY 6A CABLE TOTAL CABLE LENGTH SHALL NOT EXCEED 90 METERS (290 FEET) PER EIA/TIA STANDARDS. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY LOCATION THAT EXCEEDS THIS LENGTH PRIOR TO THE INSTALLATION OF CONDUIT OR CABLE. INSTALLATION OF CONDUIT OR CABLE THAT EXCEEDS 90 METERS SHALL BE REMOVED AND REPLACED WITH FIBER OPTIC CABLE OR RE-ROUTED TO A DISTANCE LESS THAN 90 METERS (290 FEET) BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL LABEL ALL CABLES AND CONNECTORS (OUTLETS, PATCH PANELS AND PUNCHDOWNS) PER SPECIFICATIONS AND OWNER STANDARDS. ALL CABLES SHALL BE LABELED WITH A PERMANENT, SELF-ADHERING LABELING SYSTEM. LABEL MUST BE APPLIED TO BOTH ENDS OF THE CABLE AND SHALL BE VISIBLE AFTER FINAL INSTALLATION. ALL LABELING SHALL ADHERE TO OWNER'S LABELING STANDARDS.
- CONDUIT AND BOX LABELS SHALL BE HEAVY-DUTY PRE-PRINTED LABELS SUITABLE FOR THE ENVIRONMENT THE LABEL WILL RESIDE WITHIN. HAND-WRITTEN LABELS WILL NOT BE ALLOWED.
- CONTRACTOR SHALL INSTALL AND MOUNT ALL EQUIPMENT CABINETS PER MANUFACTURERS REQUIREMENTS.
- ALL EXPOSED CONDUIT, BOXES, SUPPORTING HARDWARE, ETC. LOCATED IN FINISHED AREAS WITH AN EXPOSED CEILING STRUCTURE SHALL BE PAINTED TO MATCH CEILING STRUCTURE. COORDINATE WITH ARCHITECT.
- PROVIDE WORK SPECIFIED BUT NOT SHOWN ON DRAWINGS, AND WORK SHOWN ON DRAWINGS BUT NOT SPECIFIED, AS THOUGH EXPRESSLY REQUIRED BY BOTH.
- DO NOT ROUTE CONDUITS CONCEALED IN ABOVE GRADE CONCRETE SLABS. CONDUITS SHALL BE ROUTED EXPOSED TO UNDERSIDE OF THE SLAB AND STUBBED UP THROUGH THE SLAB TO THE EQUIPMENT BEING SERVED.
- CONTRACTOR SHALL REFER TO "ARCHITECTURAL REFLECTED CEILING PLANS" FOR PLACEMENT OF ALL CEILING MOUNTED EQUIPMENT. COORDINATE INSTALLATION WITH THE WORK OF OTHER TRADES THAT AFFECT THE PLACEMENT OF CEILING MOUNTED EQUIPMENT.
- CONTRACTOR SHALL PROVIDE PULL STRINGS IN ALL EMPTY OR SPARE CONDUITS.
- CABLING INSTALLED IN MECHANICAL AND ELECTRICAL ROOMS, ELEVATOR ROOMS AND VAULTS SHE BE INSTALLED IN CONDUIT FOR THE ENTIRE RUN INSIDE THE ROOM.
- AV SYSTEM, INFRASTRUCTURE CABLING, AND BOXES ARE SHOWN ON THE DRAWINGS. CONTRACTOR SHALL COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF ROUGH-IN WITH THE AV EQUIPMENT INSTALLER PRIOR TO INSTALLATION.
- FLOOR BOXES ARE SPECIFIED ON THE ELECTRICAL DRAWINGS UNLESS OTHERWISE NOTED.
- THE ELECTRICAL DRAWING SPECIFY 2 CHANNEL (POWER AND COMMUNICATIONS) SURFACE RACEWAY IN SEVERAL LOCATIONS. PROVIDE A 1" CONDUIT FROM THE COMMUNICATIONS CHANNEL STUBBED INTO ACCESSIBLE CEILING SPACE IN ALL RACEWAY LOCATIONS.
- WIRELESS ACCESS POINTS SHALL BE FURNISHED BY OWNER, INSTALLED BY CONTRACTOR.
- PUBLIC ADDRESS SPEAKERS SHALL BE FURNISHED BY OWNER, INSTALLED BY CONTRACTOR.



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-	ISSUED FOR CONSTRUCTION (BP2)	01 MAR 2016

No.	Description	Date
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Drawing Title:

SYMBOLS AND ABBREVIATIONS

Project No.: 04561.01 Checked by:

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1 LEVEL 01 - AREA A
1/8" = 1'-0"



GENERAL NOTES:

THIS SHEET ONLY

1. DATA OUTLETS IN OFFICE SHALL BE LOCATED ADJACENT TO AND AT THE SAME MOUNTING HEIGHT AS THE POWER RECEPTACLES UNLESS OTHERWISE NOTED. COORDINATE LOCATION WITH THE ELECTRICAL CONTRACTOR.
2. SEE TELECOMMUNICATIONS CABLING DEMARCATION LINE ON THIS SHEET FOR ROUTING OF CABLING TO SPECIFIC DATA ROOMS.

KEYED NOTES:

THIS SHEET ONLY

1. CABINET MOUNTED AV EQUIPMENT (OFVI).
2. CONFIRM EXACT LOCATION OF DATA OUTLET AND MONITOR BOX WITH ARCHITECTURAL DRAWINGS PRIOR TO INSTALLATION.
3. WALL MOUNT BLUE LIGHT EMERGENCY INTERCOM STATION WITH WIRELESS RADIO COMMUNICATION. SHALL BE FURNISHED BY OWNER AND INSTALLED BY SECURITY CONTRACTOR. UNIT SHALL BE MOUNTED SO INTERCOM STATION IS 48" ABOVE GRADE. SEE ELECTRICAL DRAWINGS FOR POWER REQUIREMENTS.
4. INSTALL COMMUNICATION OUTLET IN THE COMMUNICATIONS SIDE OF THE 2-CHANNEL RACEWAY. SEE ELECTRICAL DRAWINGS FOR RACEWAY INFORMATION.
5. CONFIRM EXACT LOCATION AND TERMINATION REQUIREMENTS WITH ELECTRICAL CONTRACTOR PRIOR TO INSTALLATION.
6. PROVIDE A 4" FIRE RATED CABLE PATHWAY THROUGH FLOOR FOR TELECOM CABLING TO LEVEL 0. SEE SPECIFICATION SECTION 078413 FOR PATHWAY INFORMATION.
7. PROVIDE A 4 11/16" SQUARE 2 1/8" DEEP WALL MOUNTED BOX WITH A 2 GANG MUD RING FOR PTZ CAMERA WITH A 1" CONDUIT WITH PULL STRING STUBBED INTO ACCESSIBLE CEILING SPACE. COORDINATE MOUNTING HEIGHT AND LOCATION WITH PTZ CAMERA INSTALLER.
8. NOT USED.
9. CONFIRM EXACT LOCATION AND TERMINATION REQUIREMENTS WITH ELEVATOR EQUIPMENT INSTALLER PRIOR TO INSTALLATION.
10. PROVIDE A 1" CONDUIT IN SLAB FROM AV EQUIPMENT CABINET TO THE LAPTOP LOCATION. VERIFY STUB-UP LOCATION.
11. DATA OUTLET FOR LAPTOP. COORDINATE BOX LOCATION WITH CASEWORK INSTALLER PRIOR TO ROUGH-IN.
12. PROVIDE (1) 1" PVC CONDUIT IN THE SLAB FOR DATA CABLES. STUB-UP INSIDE WALL CAVITY TO ABOVE ACCESSIBLE CEILING.
13. COORDINATE HEIGHT AND LOCATION WITH PA SPEAKER INSTALLER.
14. MOUNT AT LIGHT SWITCH HEIGHT.
15. MOUNT AT RECEPTACLE HEIGHT. PROVIDE (1) 1" CONDUIT UP TO "IP" BOX (SEE KEYED NOTE 14). CENTER DIRECTLY BELOW "IP" BOX.



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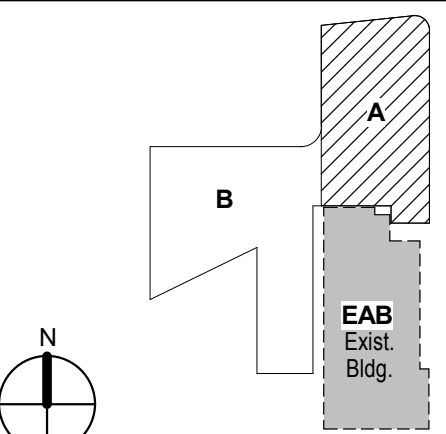
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KEY PLAN

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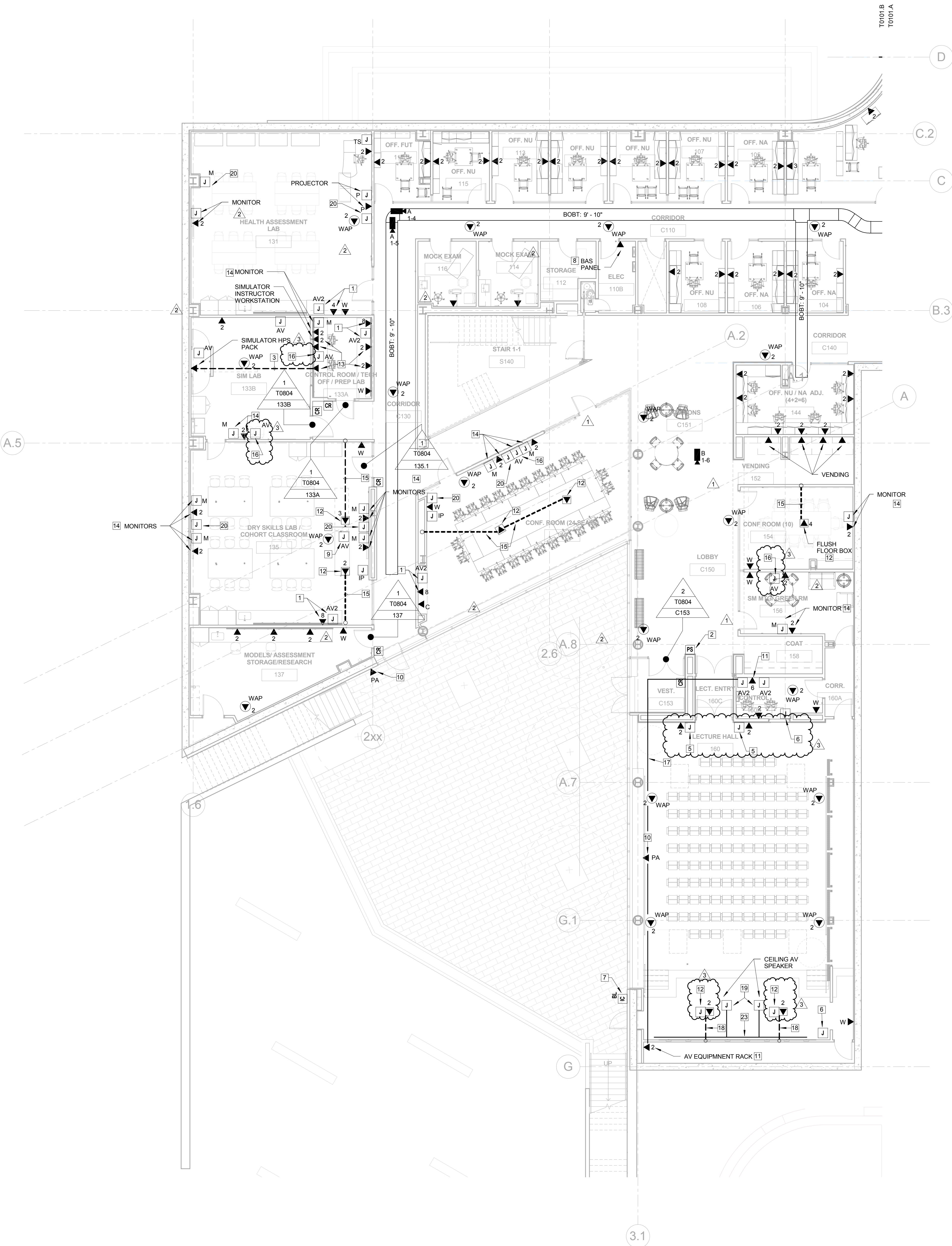
**LEVEL 01 FLOOR PLAN -
AREA A**

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1 LEVEL 01 - AREA B
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1. DATA OUTLETS IN OFFICES SHALL BE LOCATED ADJACENT TO AND AT THE SAME MOUNTING HEIGHT AS THE POWER RECEPTACLES, COORDINATE LOCATION WITH THE ELECTRICAL CONTRACTOR.
2. TELECOMMUNICATION CABLEING ON THIS SHEET SHALL BE RUN TO LEVEL 01 DATA ROOM 100B.
3. FLOOR BOXES ARE SPECIFIED ON THE ELECTRICAL DRAWINGS UNLESS OTHERWISE NOTED.

KEYED NOTES:

THIS SHEET ONLY

1. CABINET MOUNTED AV EQUIPMENT (OFVI), COORDINATE DEVICE LOCATION WITH CABINET AND AV EQUIPMENT INSTALLER.
2. LOCAL DOOR LOCK POWER SUPPLY.
3. PROVIDE (1) CAT 6A CABLE IN 1" PVC CONDUIT IN SLAB, COORDINATE TERMINATION REQUIREMENTS WITH SIMULATOR EQUIPMENT INSTALLER.
4. PROVIDE A FLUSH MOUNTED WALL BOX (HUBBELL HBL260) WITH A SINGLE GANG RING FOR AV CABLES. STUB A 2" CONDUIT INTO ACCESSIBLE CEILING SPACE.
5. PROVIDE (1) 4 GANG J-BOX WITH (2) 1-1/2" CONDUITS STUBBED INTO ACCESSIBLE CEILING SPACE. MOUNT AT RECEPTACLE HEIGHT.
6. PROVIDE A 4-11/16" SQUARE X 2-1/8" DEEP BOX WITH 2-GANG RING (VERTICAL) AND (1) 1 1/2" CONDUIT STUBBED INTO ACCESSIBLE CEILING.
7. WALL MOUNT BLUE LIGHT EMERGENCY INTERCOM STATION WITH WIRELESS RAPID COMMUNICATION SHALL BE FURNISHED BY OWNER AND INSTALLED BY ELECTRICAL CONTRACTOR. STATION SHALL BE MOUNTED SO INTERCOM IS 48" ABOVE GRADE. SEE ELECTRICAL DRAWINGS FOR POWER REQUIREMENTS.
8. CONFIRM EXACT LOCATION AND TERMINATION REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.
9. PROVIDE (2) AV BACK BOXES WALL MOUNTED AT RECEPTACLE HEIGHT.
10. COORDINATE HEIGHT AND LOCATION WITH PA SPEAKER INSTALLER.
11. PROVIDE A 24" W X 4" H VERTICAL WALL MOUNTED BASKET TRAY FROM THE AV EQUIPMENT RACK UP INTO THE ACCESSIBLE CEILING SPACE FOR AV CABLEING. COORDINATE EXACT LOCATION WITH AV EQUIPMENT INSTALLER.
12. SEE ELECTRICAL DRAWINGS FOR FLOOR BOX INFORMATION.
13. INSTALL COMMUNICATION OUTLET IN THE COMMUNICATIONS SIDE OF THE 2-CHANNEL RACEWAY. SEE ELECTRICAL DRAWINGS FOR RACEWAY INFORMATION.
14. CONFIRM EXACT LOCATION OF DATA OUTLET AND MONITOR BOX WITH AV VENDOR PRIOR TO INSTALLATION.
15. PROVIDE (2) 1" CONDUITS IN SLAB FOR DATA AND AV CABLES. STUB CONDUIT UP THROUGH WALL CAVITY TO ACCESSIBLE CEILING SPACE.
16. MOUNT AT RECEPTACLE MOUNTING HEIGHT.
17. PROVIDE (1) 2 1/2" EMPTY CONDUIT WITH PULL STRING ABOVE CEILING BETWEEN AV EQUIPMENT RACKS FOR AV CABLES (AV CABLE PROVIDED BY AV EQUIPMENT INSTALLER).
18. PROVIDE (1) 1 1/2" CONDUIT FOR AV AND (1) 1" CONDUIT FOR DATA IN SLAB, STUB UP INTO ACCESSIBLE CEILING SPACE.
19. STIB (1) 1" CONDUIT INTO AV EQUIPMENT ROOM.
20. PROVIDE A 4-11/16" SQUARE X 2-1/8" DEEP WALL MOUNTED BOX WITH 2 GANG RING FOR PTZ CAMERA WITH A 1" CONDUIT WITH PULL STRING STUBBED INTO ACCESSIBLE CEILING SPACE. COORDINATE MOUNTING HEIGHT AND LOCATION WITH PTZ CAMERA INSTALLER.
21. NOT USED
22. NOT USED
23. PROVIDE A 1 1/2" CONDUIT NIPPLE FOR EACH VIDEO MONITOR THROUGH WALL FOR VIDEO WALL



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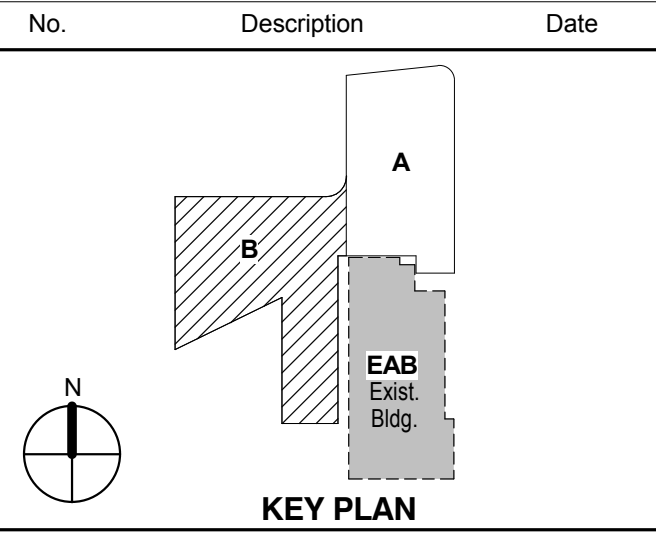
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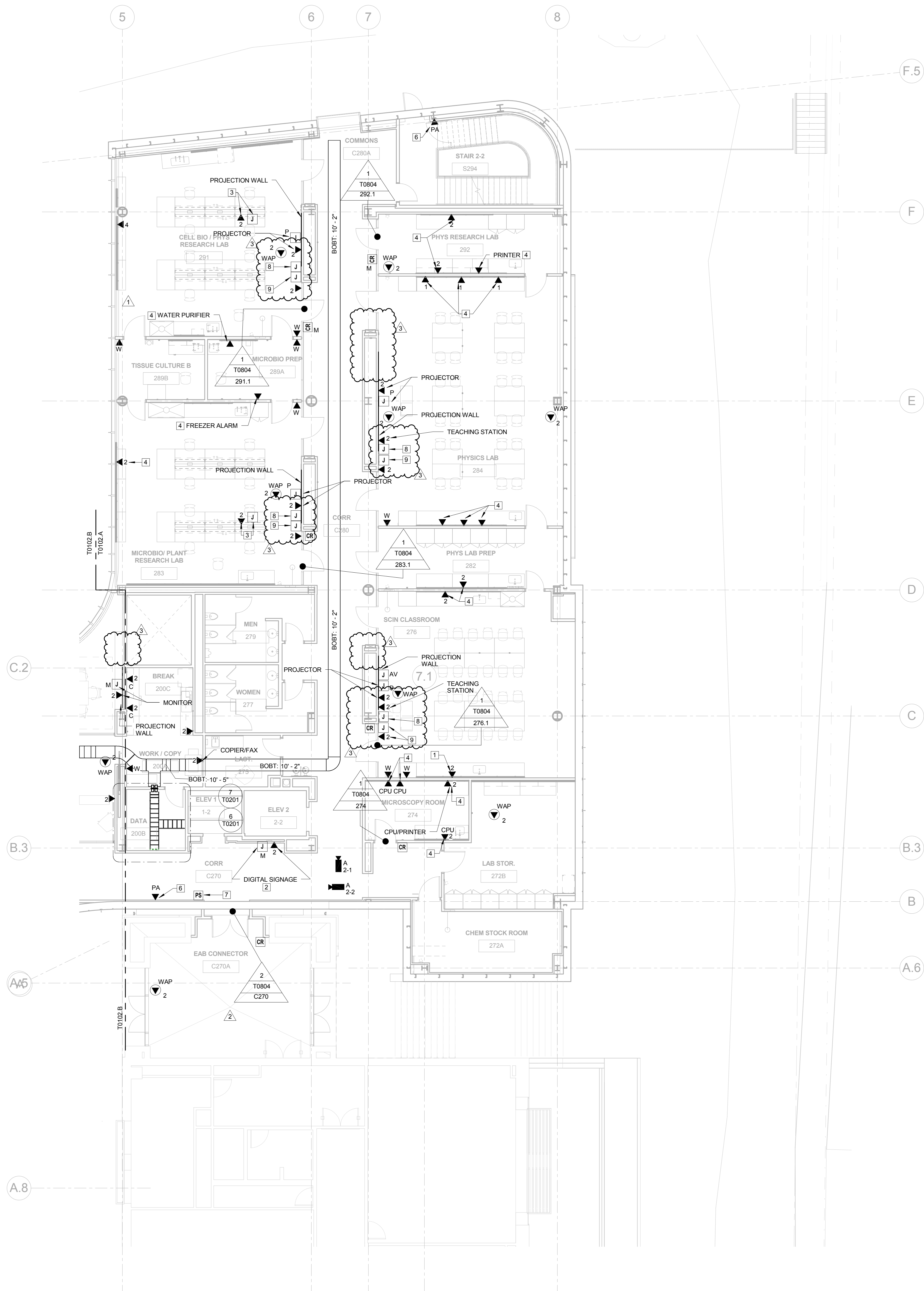
**LEVEL 01 FLOOR PLAN -
AREA B**

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1 LEVEL 02 - AREA A
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2. TELECOMMUNICATIONS CABLEING ON THIS SHEET SHALL BE RUN TO LEVEL 02 DATA ROOM 200B.

KEYED NOTES:

THIS SHEET ONLY

- 1 CABINET MOUNTED AV EQUIPMENT (OFVI)
- 2 CONFIRM EXACT LOCATION OF DATA OUTLET AND MONITOR BOX WITH AV VENDOR PRIOR TO INSTALLATION.
- 3 MOUNT DEVICES IN THE OVERHEAD SERVICE CARRIER SYSTEM. PROVIDE AN EMPTY 1" CONDUIT WITH PULL STRING FROM EACH DEVICE TO CEILING SPACE. COORDINATE DEVICE LOCATION AND MOUNTING REQUIREMENTS WITH CARRIER SYSTEM INSTALLER.
- 4 MOUNT IN COMMUNICATION CHANNEL OF 2 SECTION RACEWAY. SEE ELECTRICAL DRAWINGS FOR RACEWAY INFORMATION.
- 5 NOT USED.
- 6 COORDINATE HEIGHT AND SPEAKER LOCATION WITH PA SPEAKER INSTALLER.
- 7 LOCAL DOOR LOCK POWER SUPPLY.
- 8 PROVIDE (1) 4-11/16" SQUARE X 2-1/8" DEEP BOX WITH 2 GANG RING AND (1) 1" CONDUIT STUBBED INTO ACCESSIBLE CEILING SPACE FOR AV KEYPAD. PROVIDE (1) CAT 6A CABLE TO DATA ROOM IDENTIFIED ON PLANS. MOUNT AT LIGHT SWITCH HEIGHT. (SEE KEYED NOTE 8)
- 9 PROVIDE (1) 4-11/16" SQUARE X 2-1/8" DEEP BOX WITH 2 GANG RING FOR THE AV INPUT PLATE. MOUNT AT RECEPTACLE HEIGHT. PROVIDE (1) 1" CONDUIT UP TO THE AV KEYPAD J BOX. (SEE KEYED NOTE 8)



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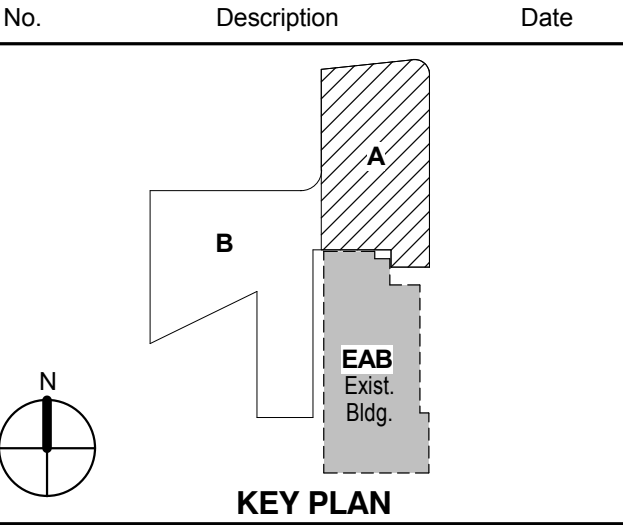
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1	ADDENDUM 2-1	17 MAR 2016
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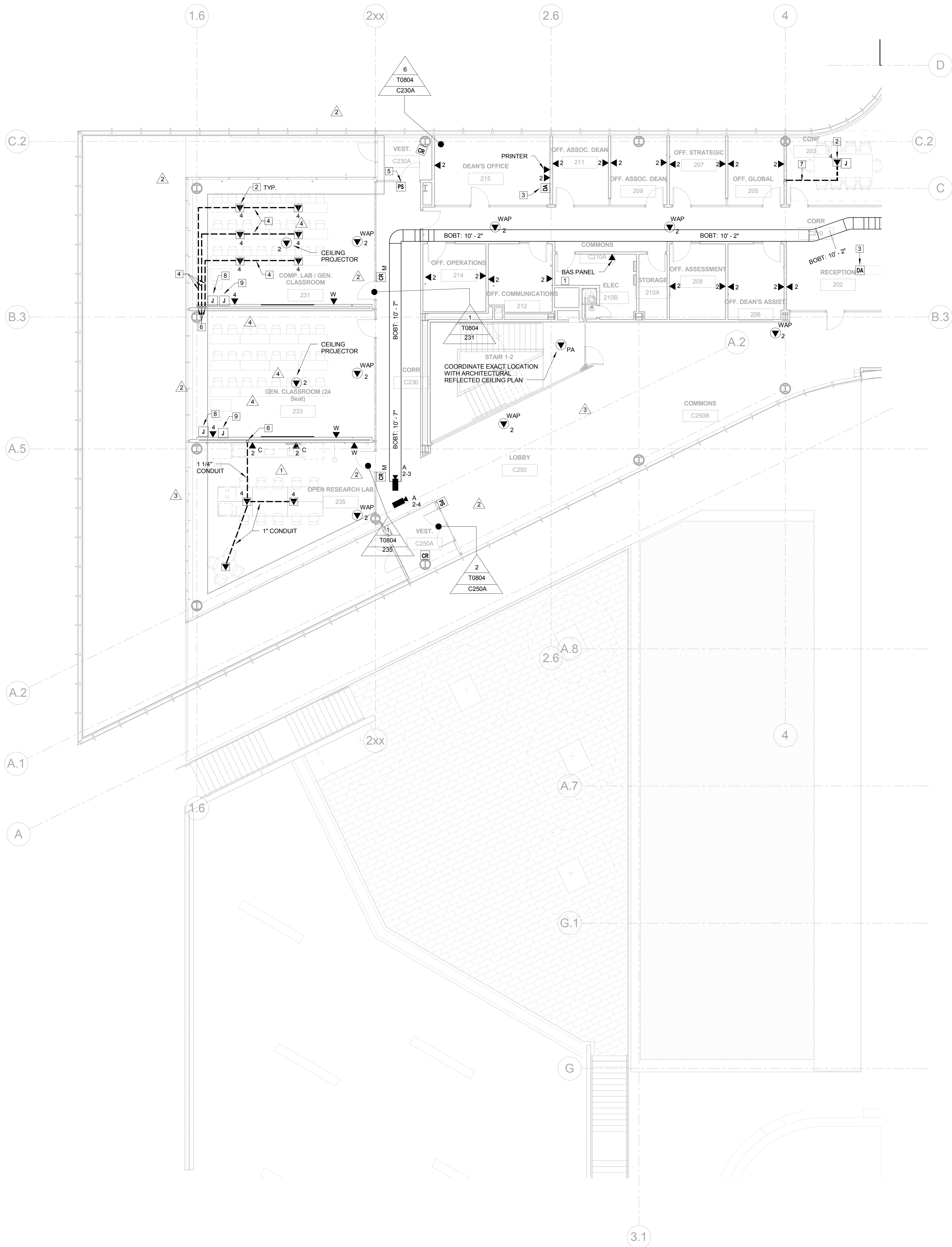
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LEVEL 02 FLOOR PLAN - AREA A

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1 LEVEL 02 - AREA B
1/8" = 1'-0"



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1. DATA OUTLETS IN OFFICE SHALL BE LOCATED ADJACENT TO AND AT THE SAME MOUNTING HEIGHT AS THE POWER RECEPTACLES. COORDINATE LOCATION WITH THE ELECTRICAL CONTRACTOR.
2. TELECOMMUNICATIONS CABLEING ON THIS SHEET SHALL BE RUN TO LEVEL 02 DATA ROOM 200B

KEYED NOTES: THIS SHEET ONLY

- 1 CONFIRM EXACT LOCATION AND TERMINATION REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.
- 2 SEE ELECTRICAL DRAWINGS FOR FLOOR BOX INFORMATION.
- 3 SECURITY SYSTEM DURESS ALARM. INSTALL ON THE BOTTOM SIDE OF THE DESK SURFACE. COORDINATE EXACT LOCATION WITH FURNITURE INSTALLER. COORDINATE WIRING REQUIREMENTS WITH THE SECURITY SYSTEM INSTALLER.
- 4 PROVIDE A 1-1/4" PVC CONDUIT IN SLAB FOR NETWORK CABLEING SERVING DESKTOP COMPUTERS.
- 5 DOOR LOCK POWER SUPPLY
- 6 STUB CONCEALED CONDUITS UP INTO ACCESSIBLE CEILING SPACE.
- 7 PROVIDE (2) 1" CONDUITS IN SLAB FOR AV AND DATA CABLES. STUB-UP IN WALL CAVITY TO ACCESSIBLE CEILING SPACE.
- 8 PROVIDE (1) 4 11/16" SQUARE X 2 1/8" DEEP BOX WITH 2-GANG RINGAND (1) 1" CONDUIT STUBBED INTO ACCESSIBLE CEILING SPACE. PROVIDE (1) CAT 6A CABLE TO DATA ROOM IDENTIFIED ON PLANS. MOUNT AT LIGHT SWITCH HEIGHT.
- 9 PROVIDE (1) 4 11/16" SQUARE X 2 1/8" DEEP BOX WITH 2-GANG RINGAND (1) 1" CONDUIT UP TO THE AV KEYPAD J-BOX(SEE KEYED NOTE 8). MOUNT AT RECEPTACLE HEIGHT.



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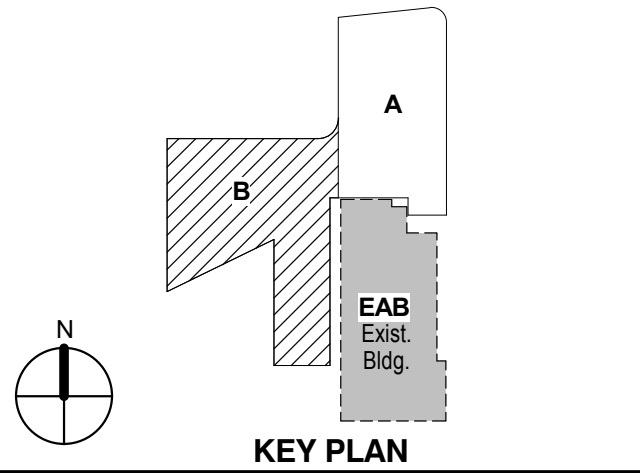
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3	ADDENDUM 2-4	24 MAY 2016
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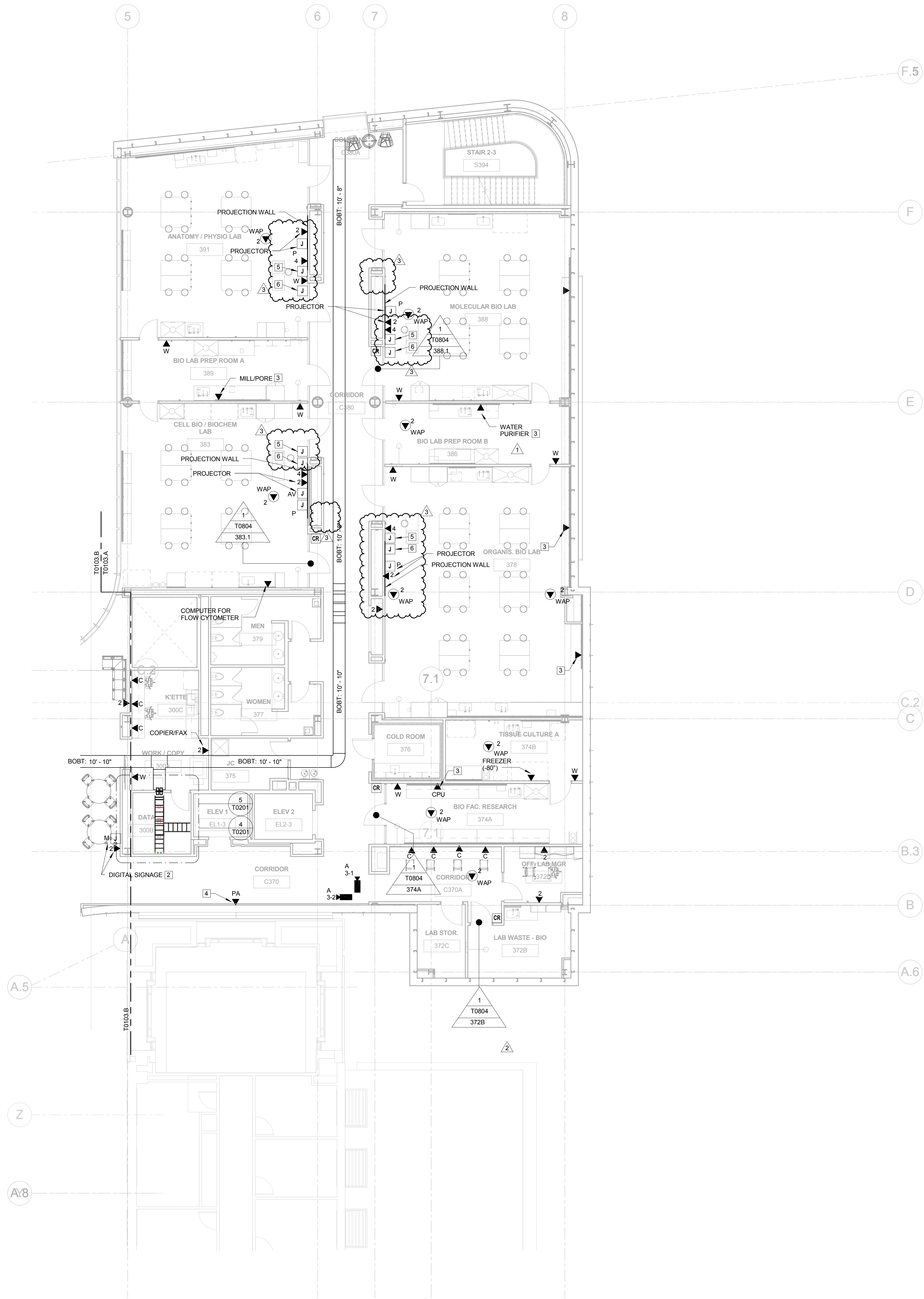
LEVEL 02 FLOOR PLAN -
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1 LEVEL 03 - AREA A
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2. TELECOMMUNICATION CABLING ON THIS SHEET SHALL BE RUN TO LEVEL 03 DATA ROOM 300B.

KEYED NOTES: THIS SHEET ONLY

1. CABINET MOUNTED AV EQUIPMENT (OFVI) INSTALLER.
2. CONFIRM EXACT LOCATION OF DATA OUTLET AND MONITOR WITH AV VENDOR PRIOR TO INSTALLATION.
3. INSTALL COMMUNICATION OUTLET IN THE COMMUNICATIONS SIDE OF THE 2" CHANNEL RACEWAY. SEE ELECTRICAL DRAWINGS FOR RACEWAY INFORMATION.
4. COORDINATE HEIGHT AND LOCATION WITH PA SPEAKER.
5. PROVIDE (1) 4-11/16" SQUARE X 2-1/8" DEEP BOX WITH 2 GANG RING AND (1) 1" CONDUIT STUBBED INTO ACCESSIBLE CEILING SPACE FOR AV KEYPAD. PROVIDE (1) CAT 6A CABLE TO DATA ROOM IDENTIFIED ON PLANS. MOUNT AT LIGHT SWITCH HEIGHT.
6. PROVIDE (1) 4-11/16" SQUARE X 2-1/8" DEEP BOX WITH 2 GANG RING FOR THE AV INPUT PLATE. MOUNT AT RECEPTACLE HEIGHT. PROVIDE (1) 1" CONDUIT UP TO THE AV KEYPAD J-BOX. (SEE KEYED NOTE 5).



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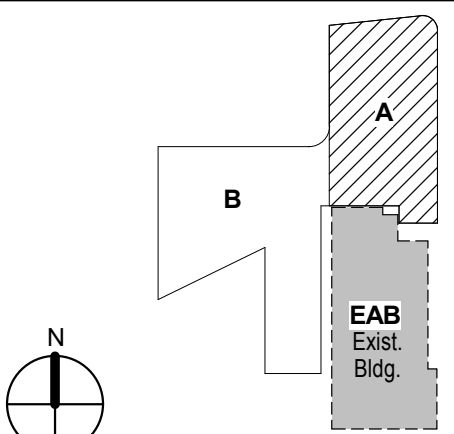
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KEY PLAN

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LEVEL 03 FLOOR PLAN -
AREA A

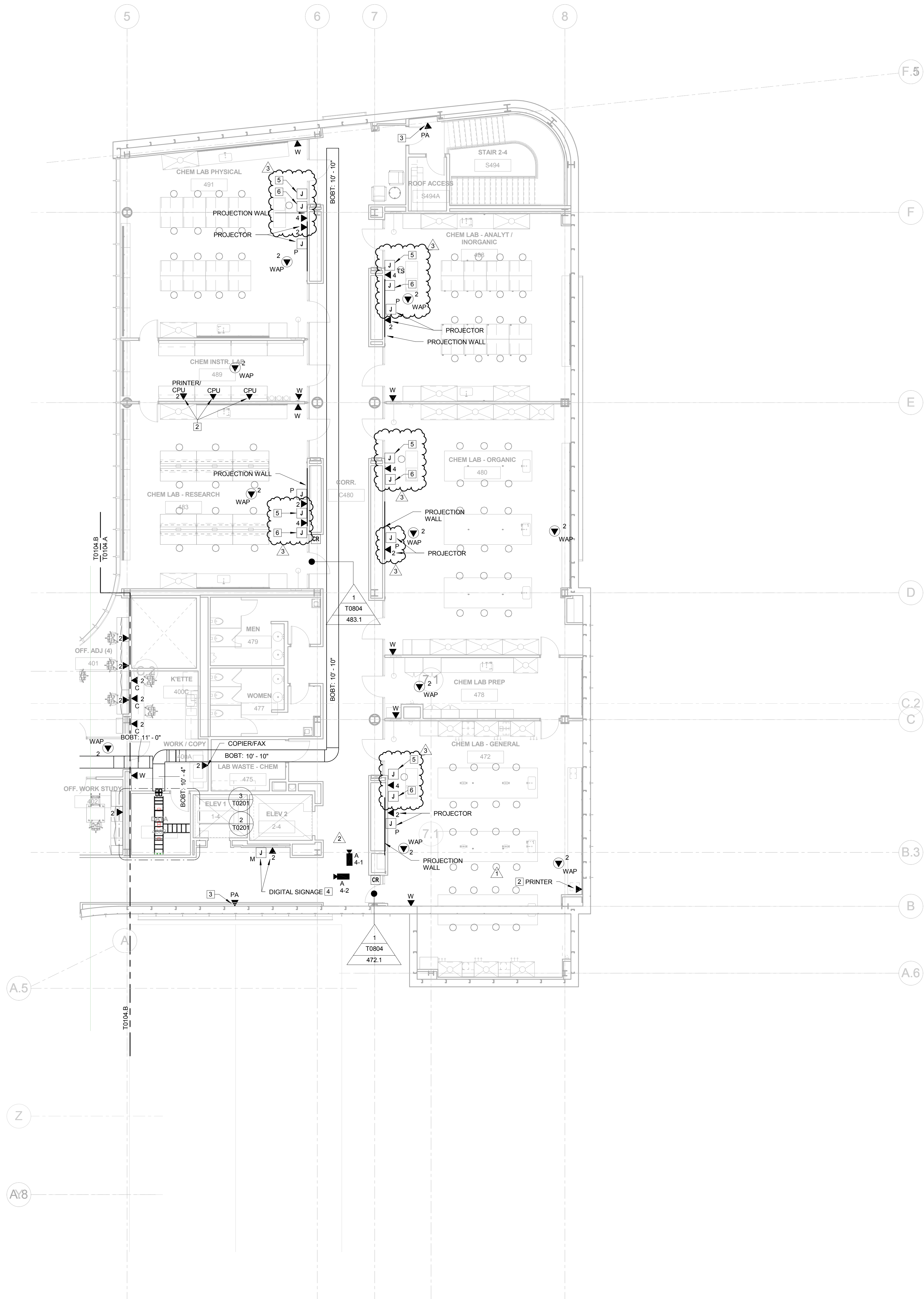
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1 LEVEL 04 - AREA A
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2. TELECOMMUNICATION CABLEING ON THIS SHEET SHALL BE RUN TO LEVEL 04 DATA ROOM 400B.

KEYED NOTES:

THIS SHEET ONLY

1. CABINET MOUNTED AV EQUIPMENT (OPVI)
2. INSTALL COMMUNICATION OUTLET IN THE COMMUNICATION SIDE OF THE 2 CHANNEL RACEWAY. SEE ELECTRICAL DRAWINGS FOR INFORMATION.
3. COORDINATE HEIGHT AND LOCATION WITH PA SPEAKER INSTALLER.
4. CONFIRM EXACT LOCATION OF DATA OUTLET AND MONITOR WITH AV VENDOR PRIOR TO INSTALLATION.
5. PROVIDE (1) 4-11/16" SQUARE X 2-1/8" DEEP BOX WITH 2 GANG RING AND (1) 1" CONDUIT STUBBED INTO ACCESSIBLE CEILING SPACE FOR AV KEYPAD. PROVIDE (1) CAT 6A CABLE TO DATA ROOM IDENTIFIED ON PLANS. MOUNT AT LIGHT SWITCH HEIGHT.
6. PROVIDE (1) 4-11/16" SQUARE X 2-1/8" DEEP BOX WITH 2 GANG RING FOR THE AV INPUT PLATE. MOUNT AT RECEPTACLE HEIGHT. PROVIDE (1) 1" CONDUIT UP TO THE AV KEYPAD J-BOX (SEE KEYED NOTE 5).



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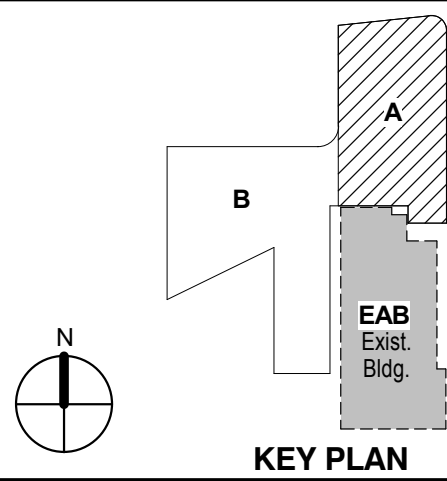
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KEY PLAN

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**LEVEL 04 FLOOR PLAN -
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1 LEVEL 01 AREA B FLOOR PLAN-WEST
1/8" = 1'-0"

- KEYED NOTE LEGEND - PLAN**
- A.1 092700 GRG COLUMN COVER TO 3" ABOVE CEILING - 20" DIA. TYP. SEE DETAIL 4/A0811 AND 13/A0842.
 - A.2 081216 INTERIOR GLAZING SYSTEM: IGS-1: REFER TO TYPICAL INT. ELEVATIONS 1 AND 2 ON SHEET A0603
 - A.3 081216 INTERIOR GLAZING SYSTEM IGS-2: SEE TYPICAL ELEVATION 5 AND 6 A0603
 - 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 STRUTURA - 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' DEEPW/ 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 (OFOI)
 - 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 14" 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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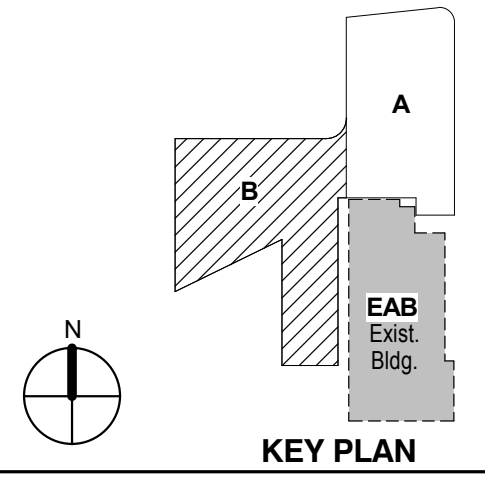
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3	ASI-035	10 NOV 2016
2	RFI-305	13 OCT 2016
1	ADDENDUM 3-1	05 APR 2016
-	ISSUED FOR CONSTRUCTION (BP3)	15 MAR 2016
No.	Description	Date

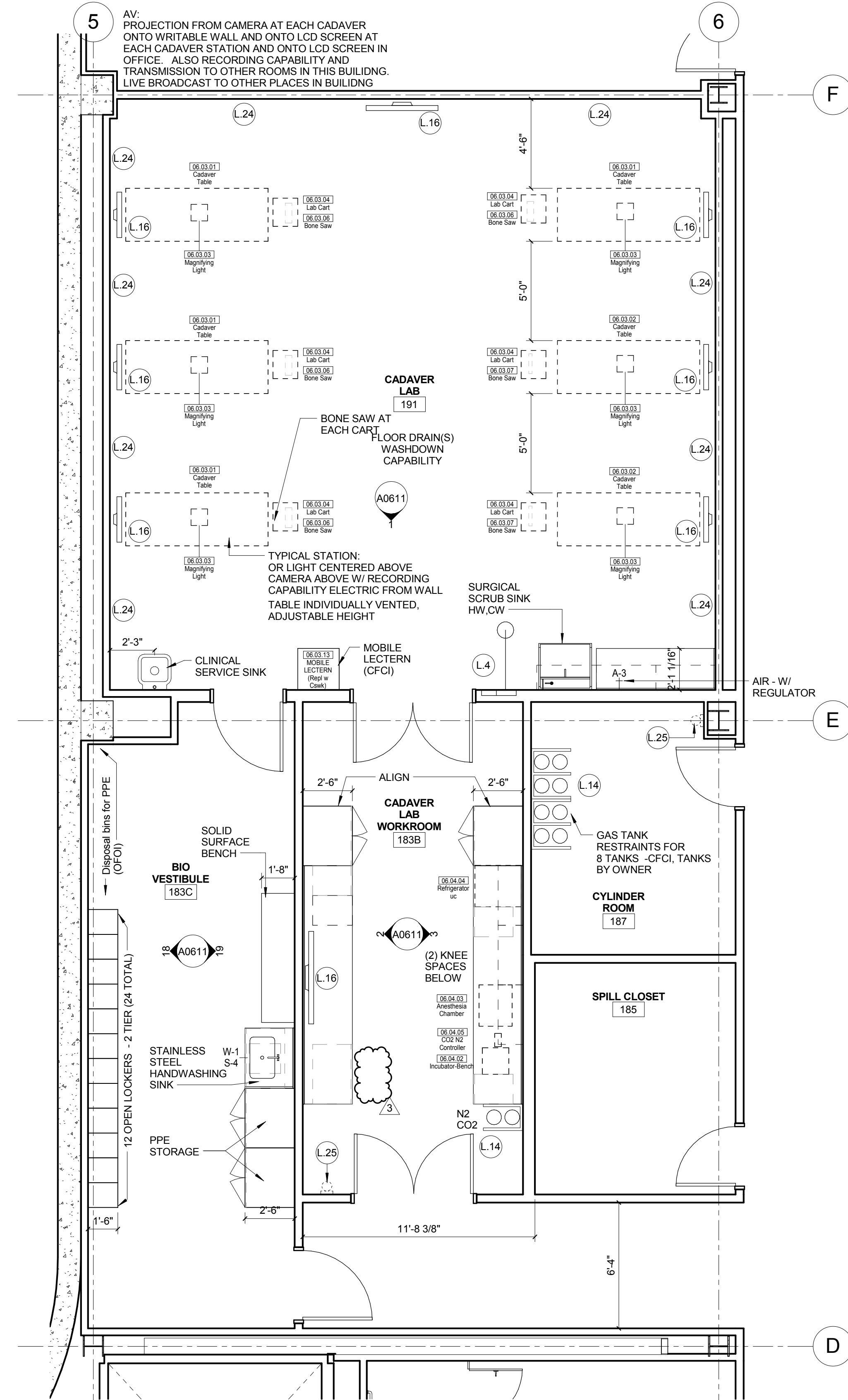


KEY PLAN
LEVEL 01 AREA B FLOOR PLAN

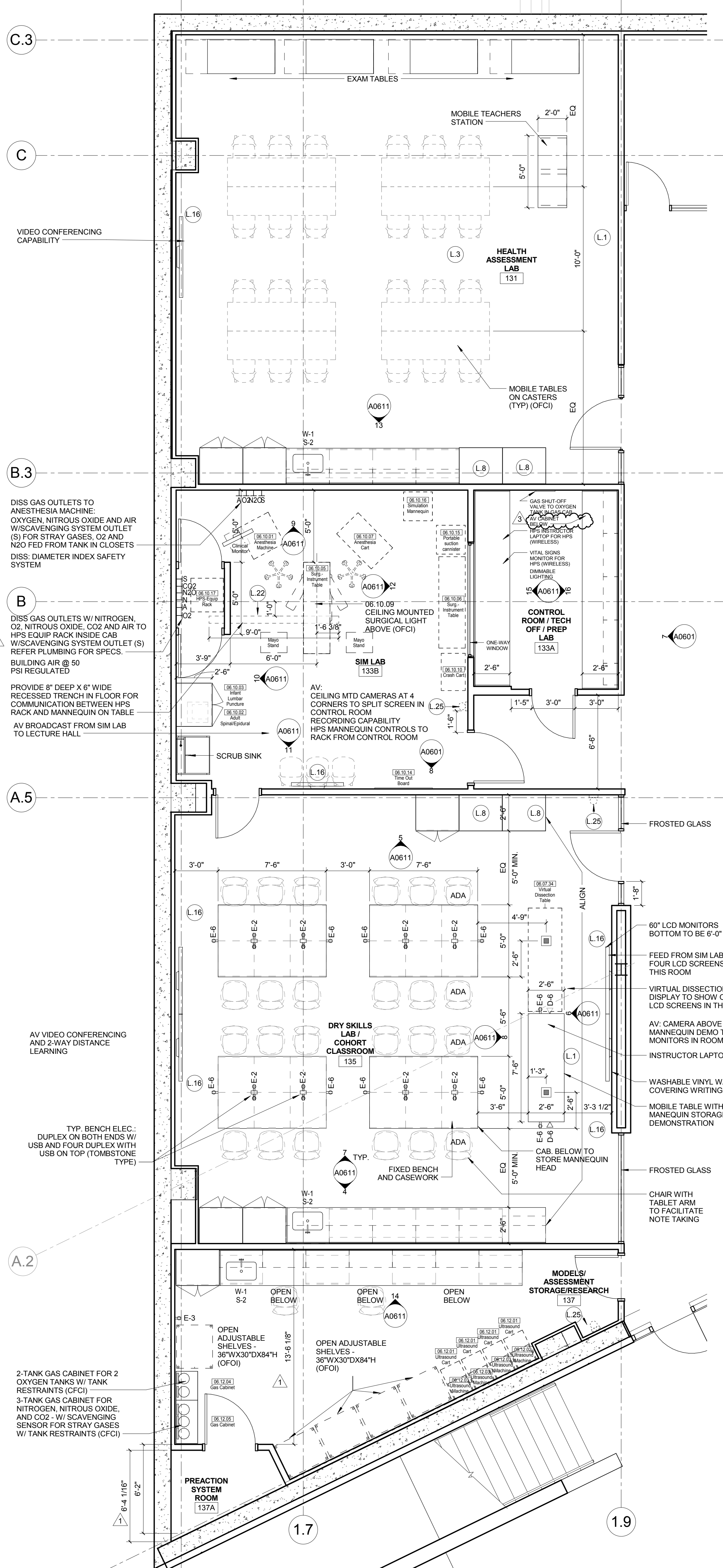
Project No.: 04561.01 Checked by:

A0101.B

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2 LEVEL 01 - AREA A - WEST - CADAVER LAB
1/4" = 1'-0"



1 LEVEL 01 - AREA B - WEST - NURSING/ANESTHESIA
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 1151313 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 51313 CHEMICAL FUME HOOD - ACCESSIBLE - WITH MOBILE STORAGE BELOW, WHERE SHOWN. TYPICAL FUME HOOD TO HAVE ELECTRIC AND UTILITIES AS INDICATED.
 - L.10 CABS BELOW WHITEBOARD
 - L.11 RECESSED MOTORIZED ROOM DARKENING / BLACKOUT SHADES. USE DOUBLE SHADES AT WEST CLASSROOMS LEVEL 02 AND LECTURE HALL. REFER TO REFLECTED CEILING PLANS.
 - L.12 CAMERA FOR SKYPE INTERVIEW
 - L.14 GAS CYLINDER STORAGE RACK (CFCI), CYLINDERS TO BE "OFF"
 - L.15
 - L.16 RECESSED MOTORIZED ROOM DARKENING / BLACKOUT SHADES. USE DOUBLE SHADES AT WEST CLASSROOMS LEVEL 02 AND LECTURE HALL. REFER TO REFLECTED CEILING PLANS.
 - L.17 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 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 FAUCET FOR BIO SAFETY CABINET CONNECTIONS
 - PWS DI WATER FAUCET DECK MOUNTED
 - 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 BIO SAFETY 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 BIO SAFETY 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
 - 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 CUP SINK LIPPED MODIFIED EPOXY CUP SINK, 9"X13" W OVAL (DROP-IN)
 - S-1 SINK LIPPED MODIFIED EPOXY SINK, 25"X15"X10"D (DROP-IN)
 - S-2 SINK LIPPED MODIFIED EPOXY ADA SINK 25"X15"X6"X5"D (DROP-IN)
 - S-3 SINK STAINLESS STEEL SINK 25"X15"X10"D (DROP-IN)
 - S-4 SINK STAINLESS STEEL ADA SINK 25"X15"X6"X5"D (DROP-IN)
 - S-5 SINK LIPPED MODIFIED EPOXY ADA SINK 18"X15"X6"X5"D (DROP-IN)
 - S-6 SINK LIPPED MODIFIED EPOXY 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 (OFOI) ITEMS ARE SHOWN DASHED FOR REFERENCE ONLY. COORDINATE SIZE AND INSTALLATION REQUIREMENTS WITH OWNERS REPRESENTATIVE.
 - CENTER ALL DRYING RACKS WITH DRIP STOP TROUGHABOUT 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 10.
 - 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 - XXX.XX. SEE SHEETS A111 FOR EQUIPMENT SCHEDULES.
 - PROVIDE PAPER TOWEL DISPENSER (PTD) AT EACH SINK LOCATION.



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3	ASH-035	10 NOV 2016
2	ASH-033	03 NOV 2016
1	RFI 305	13 OCT 2016
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No.	Description	Date

Drawing Title:

ENLARGED PLANS-LEVEL
01

Project No.: 04561.01 Checked by:

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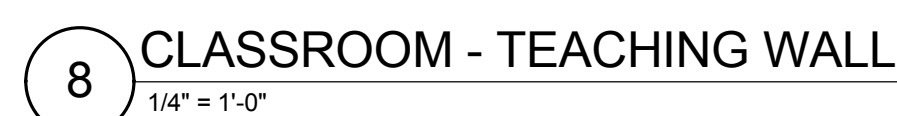
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1	ASI-035	10 NOV 2016
-	ISSUED FOR CONSTRUCTION (BP3)	15 MAR 2016
No.	Description	Date

Drawing Title:

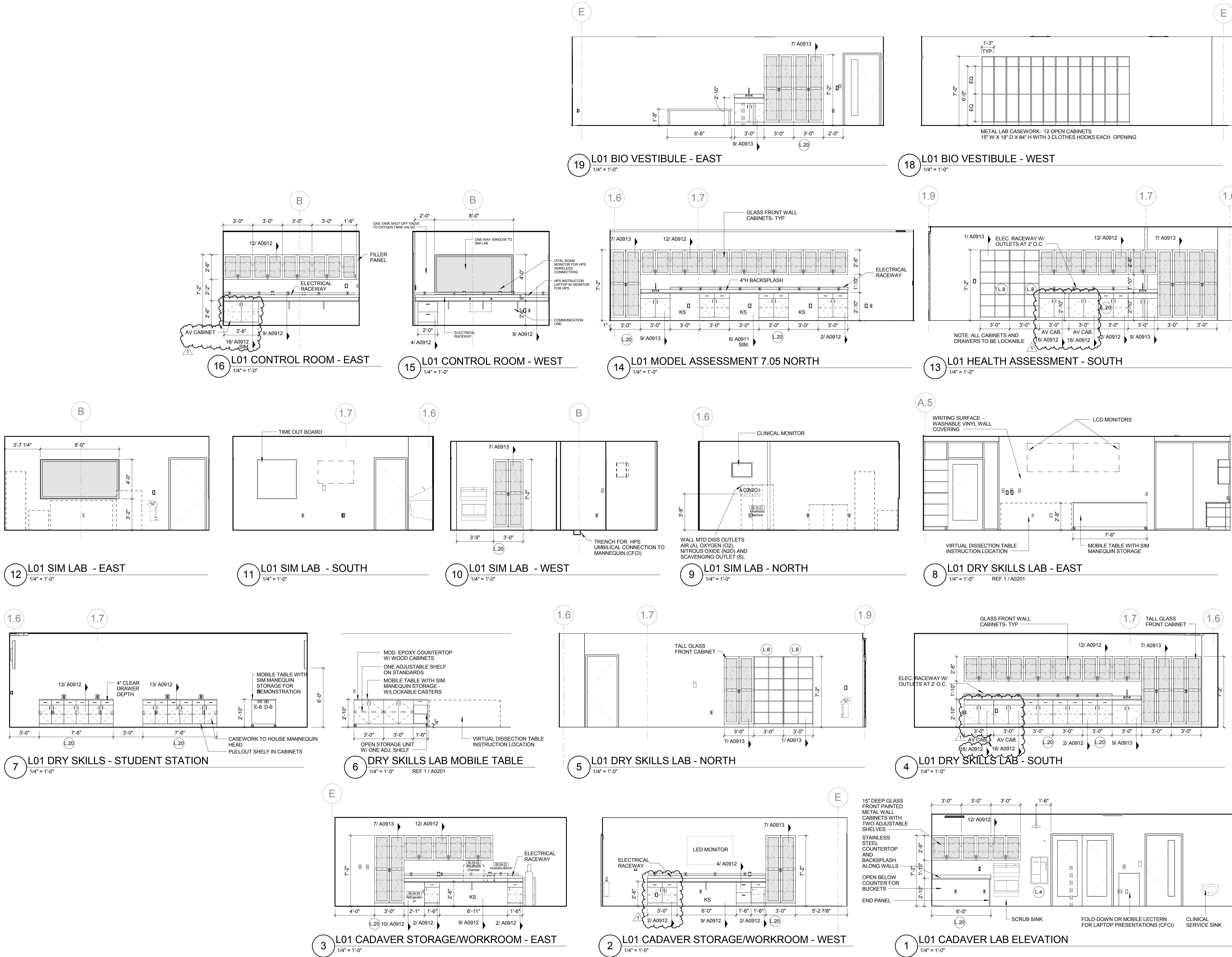
INTERIOR ELEVATIONS

Project No.: 04561.01

Checked by:

A0601

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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 "O.P.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 086868 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-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"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 (OFIO) 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 TO BE WOOD U.N.O.
- ALL CASEWORK IS LABORATORY CASEWORK UNLESS NOTED AS MILLWORK OR GFI. SEE DIVISION 12 3555 - LABORATORY CASEWORK FOR SPECIFICATIONS.
- ALL EQUIPMENT ITEMS HAVE A EQUIPMENT TAG - XX-XX-XX. SEE SHEETS A114 FOR EQUIPMENT SCHEDULES.
- PROVIDE PAPER TOWEL DISPENSER (PTD) AT EACH SINK LOCATION.

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