

Architect's Supplemental Instructions

Architect's Project No:
04561.01

Architect's ASI No: 030

Project:
Webster University
Interdisciplinary Science
Building

Date Issued: 10/14/2016

Contract Date:

Reason Code: 06 Owner's Scope

Discipline Code: 07 General Construction
(Architectural)

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:

Sheets: T0001, T0101.B, T0102.B, T0103.B, T0104.B, E0101.B, E0103.B, E0104.B.

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St. Louis, Missouri
63102
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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

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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:

1. T0001 – SYMBOLS AND ABBREVIATIONS
 - A. Revised symbol descriptions.
2. T0101.B – LEVEL 01 FLOOR PLAN – AREA B
 - A. Revised AV infrastructure in several locations.
3. T0102.B – LEVEL 02 FLOOR PLAN – AREA B
 - A. Revised AV infrastructure in Comp. Lab/Gen. Classroom 231 and Gen. Classroom 233
4. T0103.B – LEVEL 03 FLOOR PLAN – AREA B
 - A. Revised AV infrastructure in several locations.
5. T0104.B – LEVEL 04 FLOOR PLAN – AREA B
 - A. Revised AV infrastructure in Translation 419, Off Staff 407, and Sm Mtg. 441.
 - B. Removed AV infrastructure in Small Meeting room 441.
6. E0101.B LEVEL 01 AREA B FLOOR PLAN – ELECTRICAL & AUXILIARY
 - A. In Room 131, move receptacle for TV on west wall north to match AV location.
 - B. In Room 156, add floor box and associated Keyed Note E63. Circuit as indicated.
7. E0103.B LEVEL 03 AREA B FLOOR PLAN – ELECTRICAL & AUXILIARY
 - A. In Room 325, move quadruplex receptacle on south wall east to match AV location.
 - B. In Room 353, add floor box and associated Keyed Note E63. Circuit as indicated.
8. E0104.B LEVEL 04 AREA B FLOOR PLAN – ELECTRICAL & AUXILIARY
 - A. In Room 419, delete wall mounted projector duplex receptacle and associated Keyed Note E02.

Issued by Architect:

Tom Becker (Faith Group)

Mark de la Fuente (William Tao & Associates, Inc.)

Accepted by Contractor:

ABBREVIATIONS

A.C.S.	-	ACCESS CONTROL SYSTEM
A.F.F.	-	ABOVE FINISHED FLOOR
AHJ	-	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
EX	-	EXISTING TO REMAIN
FA	-	FIRE ALARM
FO	-	FIBER OPTIC
FS	-	FUSIBLE SWITCH
G.C.	-	GENERAL CONTRACTOR
GF	-	GROUND FAULT
GFCl	-	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
NIC	-	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.
	WALL MOUNTED MONITOR BOX. PROVIDE A 4-11/16" SQUARE 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 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.
	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/MISUAL 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, PUNCH 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 - AUDIO/VISUAL CAMERA CONNECTION. PROVIDE 1-PORT OUTLET ON CEILING.	
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.
QW-#	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
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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 "J" 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 CEILING 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 PRE-PRINTED STICKER ON 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.
- ANY 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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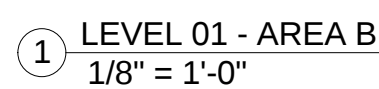
2	ASI-030	14 OCT 2016
1	ADDENDUM 2-2	19 APR 2016
-	ISSUED FOR CONSTRUCTION (BP2)	01 MAR 2016
No.	Description	Date

Drawing Title:

**SYMBOLS AND
ABBREVIATIONS**

Project No.: 04561.01 Checked by:

T0001



THIS SHEET ONLY

- THIS SHEET ONLY

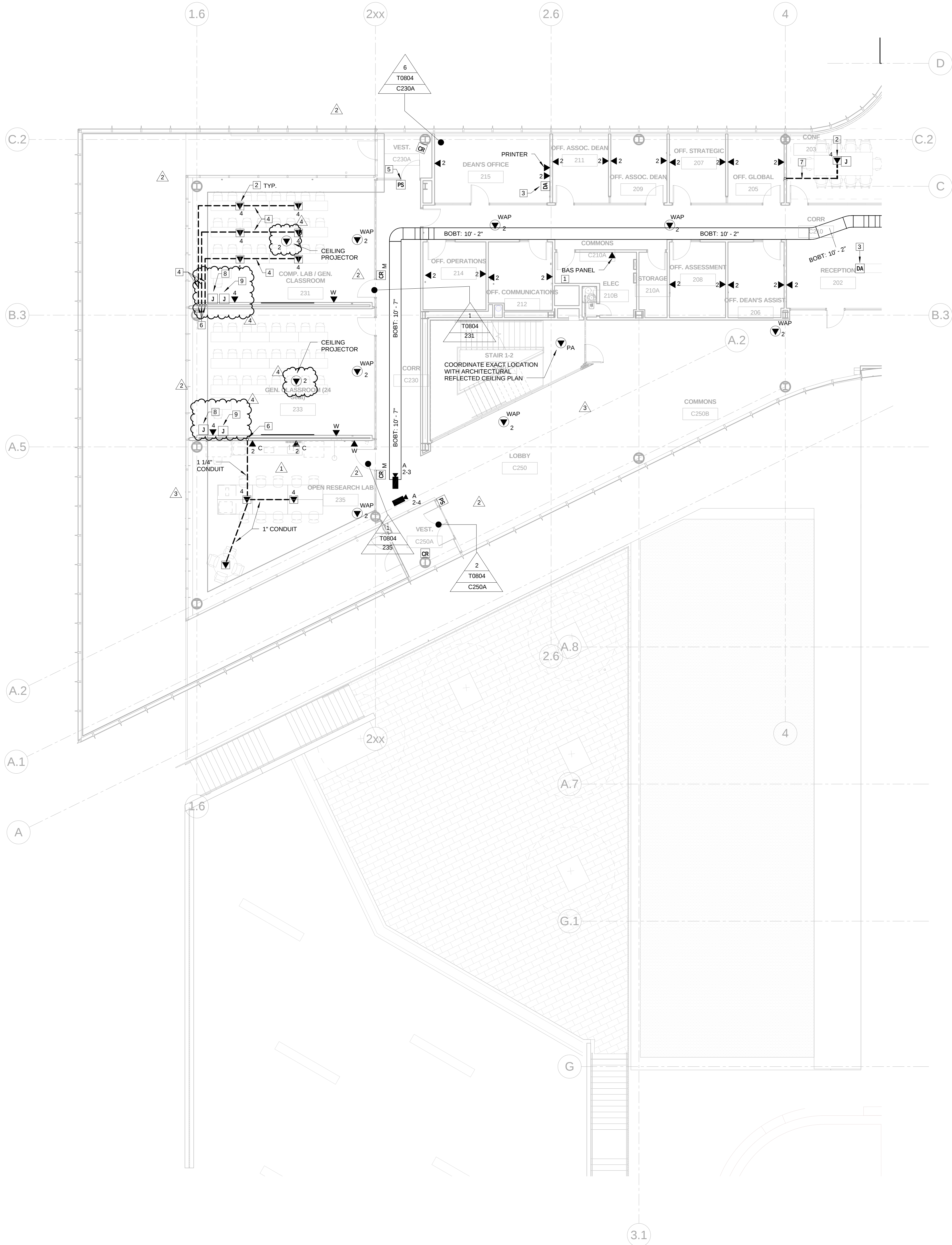
- 21 NOT USED
- 22 NOT USED
- 23 PROVIDE A 1 1/2" CONDUIT NIPPLE FOR EACH VIDEO MONITOR THROUGH WALL FOR VIDEO WALL



T0101.B

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1 LEVEL 02 - AREA B
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, 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 INTO 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 STUBBED INTO ACCESSIBLE CEILING SPACE. PROVIDE (1) CAT 6A CABLE TO DATA ROOM IDENTIFIED ON PLANS. MOUNT AT RECEPTACLE HEIGHT.



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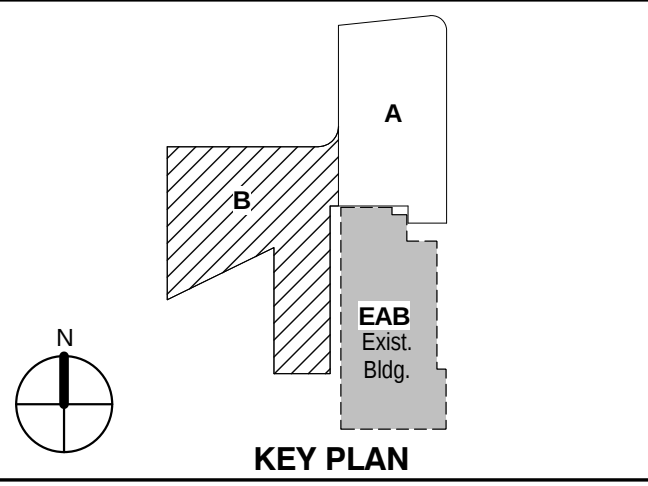
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4	ASI-030	14 OCT 2016
3	ADDENDUM 2-4	24 MAY 2016
2	ADDENDUM 2-2	19 APR 2016
1	ADDENDUM 2-1	17 MAR 2016
-	ISSUED FOR CONSTRUCTION (BP2)	01 MAR 2016



KEY PLAN

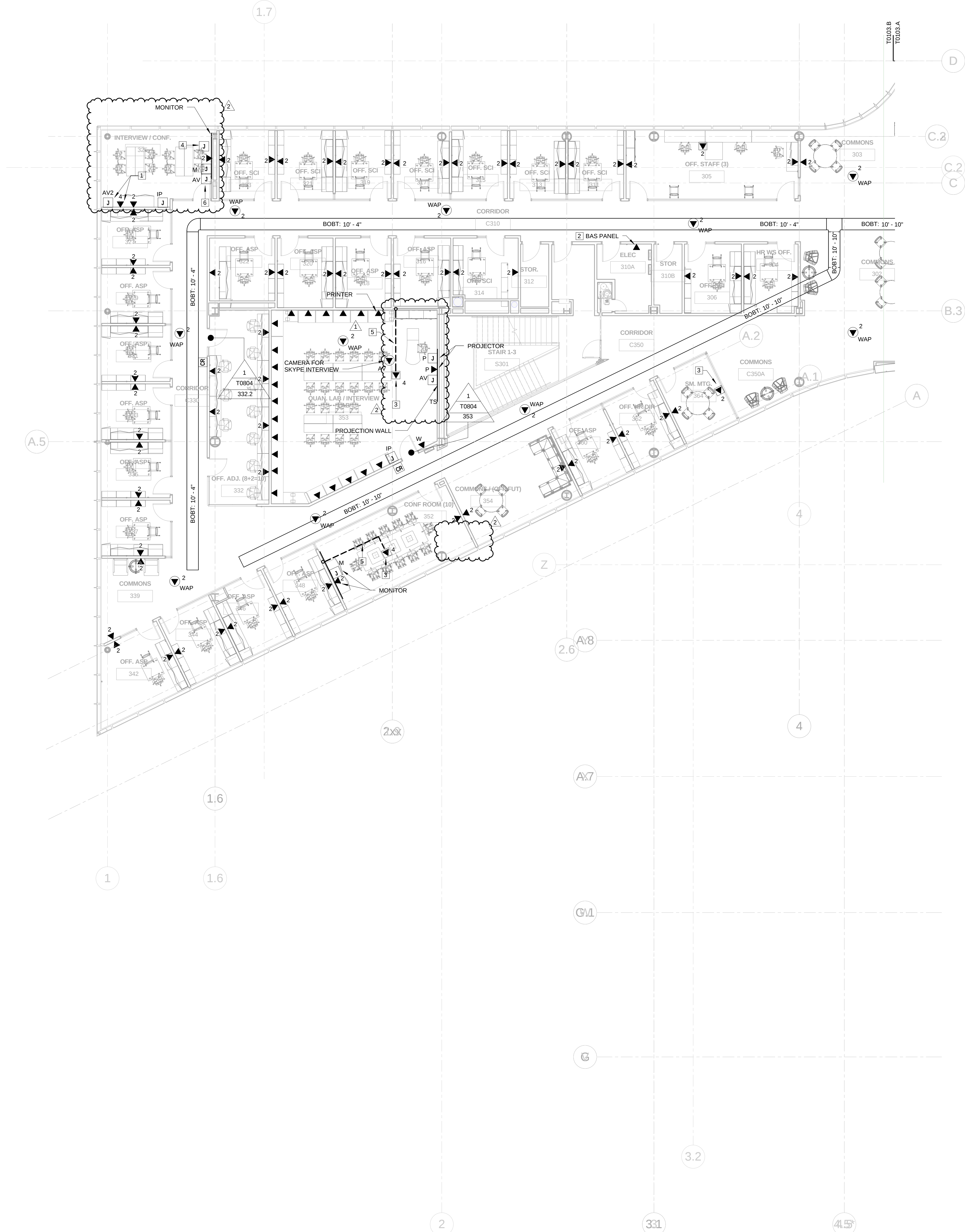
LEVEL 02 FLOOR PLAN -
AREA B

Project No.: 04561.01 Checked by:

T0102.B

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1 LEVEL 03 - AREA B
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, COORDINATE LOCATION WITH THE ELECTRICAL CONTRACTOR.
2. TELECOMMUNICATION CABLING ON THIS SHEET SHALL BE RUN TO LEVEL 003 DATA ROOM 003B.

KEYED NOTES:

THIS SHEET ONLY

1. CABINET MOUNTED AV EQUIPMENT (OFVI)
2. CONFIRM EXACT LOCATION AND TERMINATION REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.
3. SEE ELECTRICAL DRAWINGS FOR FLOOR BOX INFORMATION.
4. PROVIDE A 4 11/16" X 2 1/8" DEEP WALL MOUNTED BOX FOR PTZ CAMERA WITH A 1" CONDUIT WITH PULL STRING STUBBED INTO ACCESSIBLE CEILING SPACE, COORDINATE MOUNTING HEIGHT AND LOCATION WITH PTZ CAMERA INSTALLER.
5. PROVIDE (2) 1" CONDUITS IN SLAB FOR AV AND DATA CABLES, SUBJ. TO ACCESSIBLE CEILING SPACE.
6. MOUNT AT RECEPTACLE HEIGHT



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314.962.2560

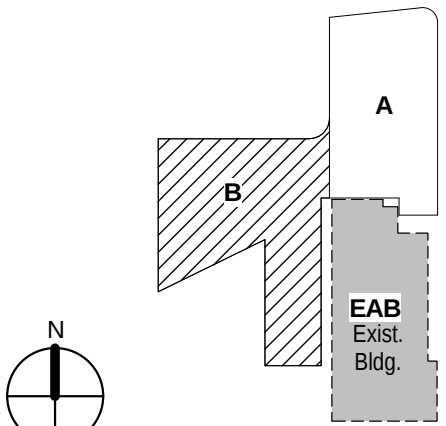
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2	ASI-030	14 OCT 2016
1	ADDENDUM 2-4	24 MAY 2016
1	ISSUED FOR CONSTRUCTION (BP2)	01 MAR 2016

No.	Description	Date
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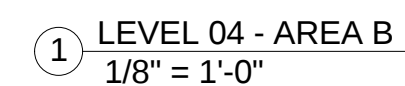
Drawing Title:

**LEVEL 03 FLOOR PLAN -
AREA B**

Project No.: 04561.01 Checked by:

T0103.B

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- KEYED NOTES:

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- 3 SEE ELECTRICAL DRAWINGS FOR FLOOR BOX LOCATION.

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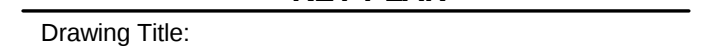
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GENERAL NOTES:

- 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 OIDA, VOICE AND AV.
- ALL 120V BRANCH CIRCUITS ON THIS SHEET SHALL BE FED FROM PANEL 1N1.1 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 AV 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 AV EQUIPMENT. COORDINATE MOUNTING HEIGHT AND EXACT LOCATION WITH ARCHITECTURAL ELEVATIONS AND AV 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 RECEPTACLE BANK 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 1N1.3.
- E55** PROVIDE POWER TO BUILDING AUTOMATION SYSTEM PANEL. COORDINATE LOCATION WITH AUTOMATION CONTRACTOR.
- E57** PROVIDE POWER TO SUBWOOFER, COORDINATE LOCATION WITH AV DRAWINGS.

E62 PROVIDE A 2HR FIRE CLASSIFIED 2-GANG MULTI-SERVICE STEEL RECESSED FLOOR BOX EQUAL TO WIREMOLD CAT. NO. RF82S-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.

E63 PROVIDE A 2HR FIRE CLASSIFIED 4-GANG MULTI-SERVICE STEEL RECESSED FLOOR BOX EQUAL TO WIREMOLD CAT. NO. RF84S-FC WITH A BRASS FLANGED COVER CAT. NO. FPB7CBS-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 AV 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. RF86S-FC WITH A BRASS FLUSH COVER CAT. NO. FPB810BTS-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 AV DRAWINGS FOR DEVICE TYPES). THE BOX SHALL BE INSTALLED PER MANUFACTURERS WRITTEN INSTRUCTIONS SO THAT THE COVER IS FLUSH WITH THE FLOOR.

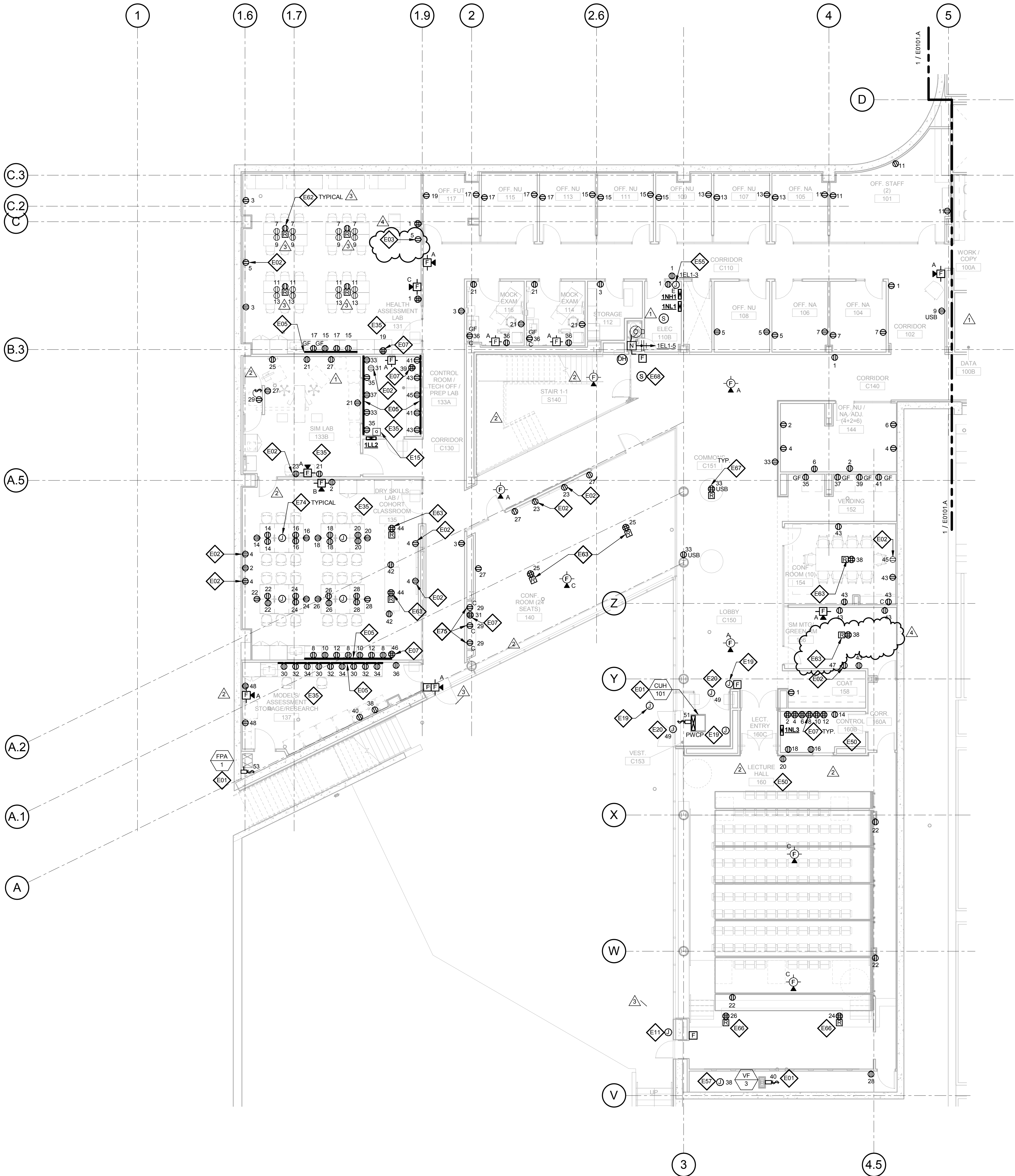
E67 PROVIDE A 2HR FIRE CLASSIFIED 2-GANG MULTI-SERVICE STEEL RECESSED FLOOR BOX EQUAL TO WIREMOLD CAT. NO. RF82S-FC WITH A BRASS FLANGED COVER CAT. NO. FPB7CBS-NA. THE FLOOR BOX SHALL HAVE ALL NECESSARY MOUNTING BRACKETS FOR (2) 20A DUPLEX RECEPTACLES WITH USB PORTS. THE BOX SHALL BE INSTALLED PER MANUFACTURERS 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 AUXILLARY

1/8" = 1'-0"



Drawing Title:

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

Project No.: 04561.01 Checked by:

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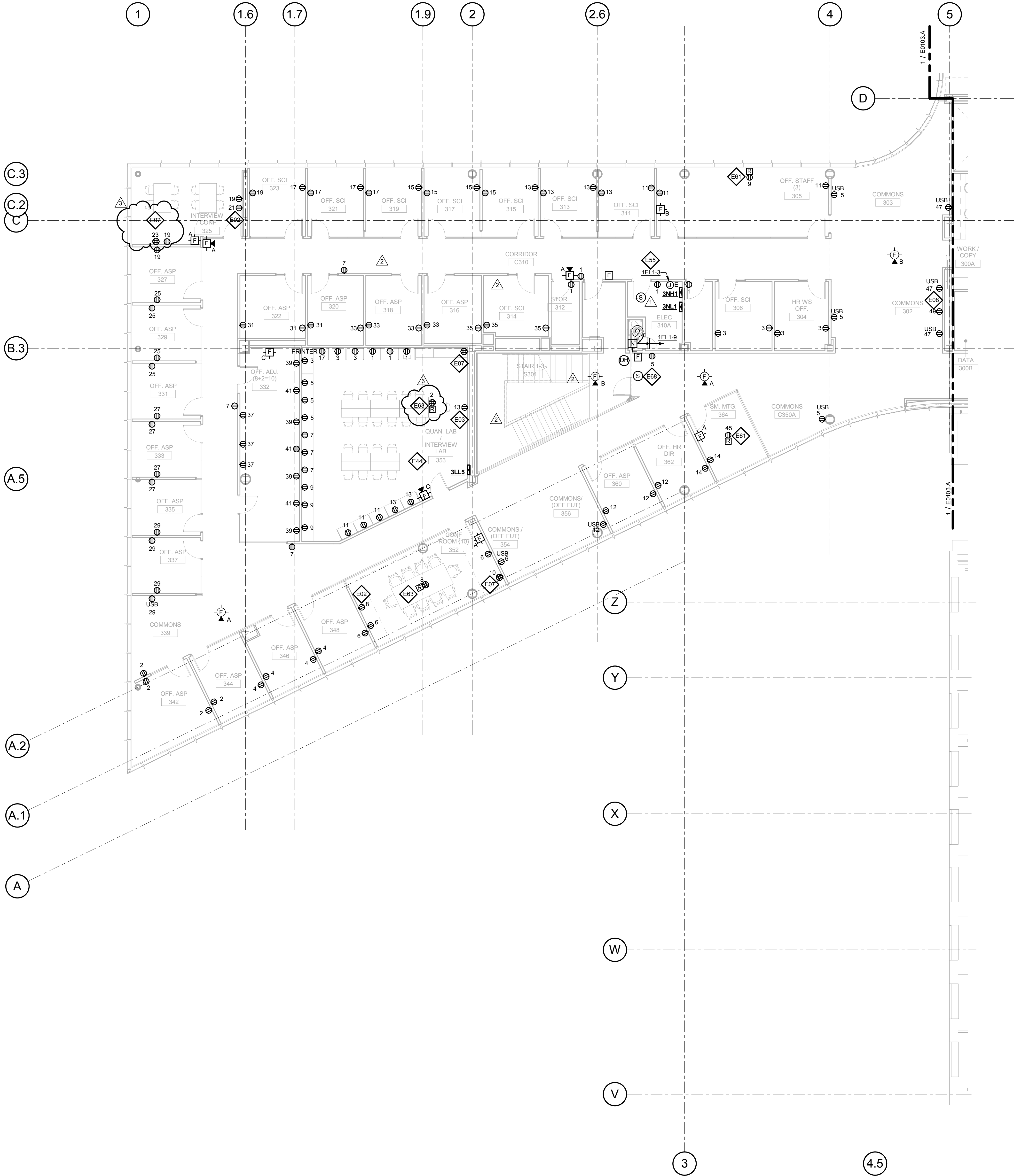
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- WHERE EXPOSED CONDUIT IS NOTED, CONTRACTOR SHALL IDENTIFY ROUTING IN FIELD AND OBTAIN ARCHITECT'S APPROVAL OF ROUTING PRIOR TO ROUGH-IN. EXPOSED CONDUIT SHALL BE ROUTED TIGHT TO STRUCTURE.
- ALL SINGLE PHASE BRANCH CIRCUITS SHOWN SHALL HAVE DEDICATED NEUTRALS. TO MEET NEC SECTION 210.4 MULTI-WIRE BRANCH CIRCUIT REQUIREMENTS.
- REFER TO TECHNOLOGY DRAWINGS FOR CONDUIT ROUGH-IN ODATA, VOICE AND A/V.
- ALL 120V BRANCH CIRCUITS ON THIS SHEET SHALL BE FED FROM PANEL 3NL1 UNLESS NOTED OTHERWISE.

KEYED NOTES

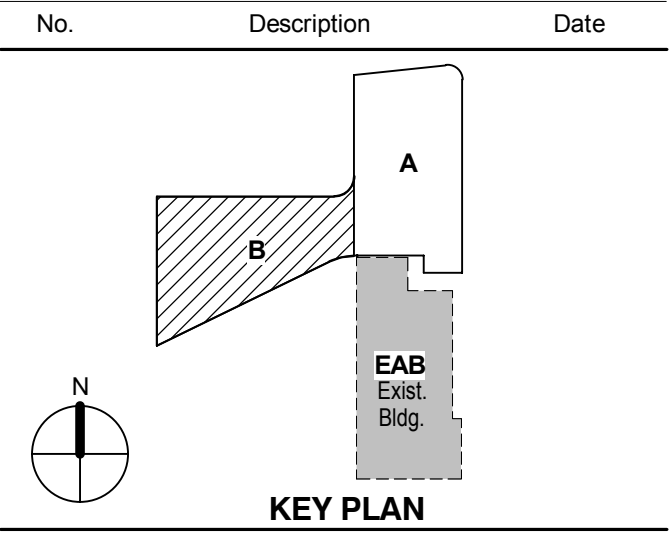
- E01 REFER TO EQUIPMENT DATA SCHEDULE FOR BRANCH CIRCUIT INFORMATION.
- E02 PROVIDE NEW RECEPTACLE FOR MONITOR. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS AND TECHNOLOGY PLANS.
- E03 PROVIDE NEW RECEPTACLE FOR WALL MOUNTED PROJECTOR. VERIFY EXACT LOCATION AND MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS AND A/V DRAWINGS.
- 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.
- E08 OUTLET FOR DIGITAL SIGNAGE. 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.
- 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. 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), (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.
- 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.
- 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"

3	ASH-030	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 03 AREA B FLOOR
PLAN - ELECTRICAL &
AUXILIARY

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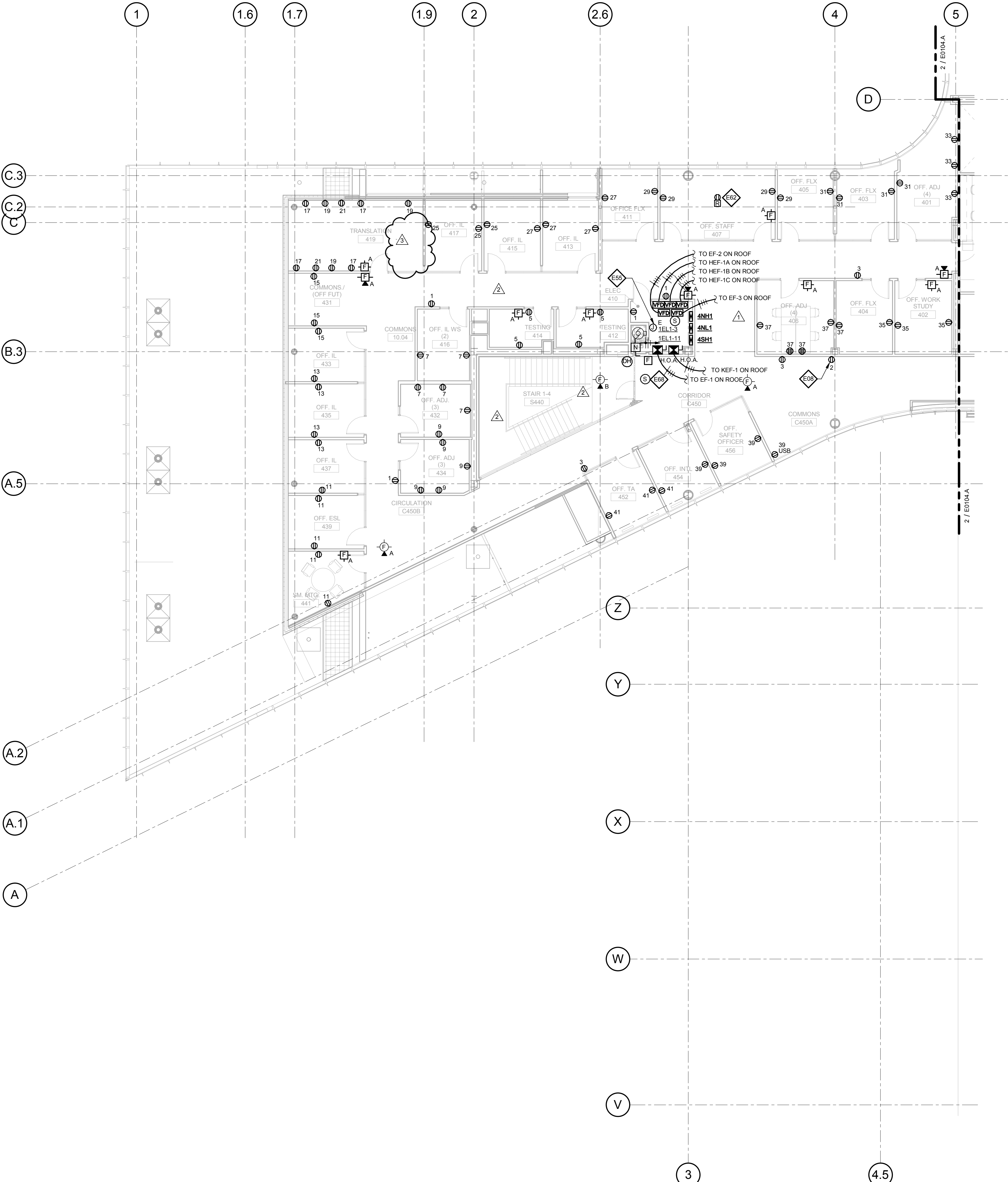
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- B. ALL DEVICES SHOWN ARE NEW UNLESS NOTED OTHERWISE.
- C. ALL DEVICES TO REMAIN ARE INDICATED WITH A THIN SOLID LINE WEIGHT AND SUBSCRIPT "EX".
- D. CONTRACTOR SHALL VISIT PRIOR TO BID SUBMITTALS TO DETERMINE SITE CONDITIONS. THE EXECUTION OF WORK, FAILURE TO BE ACQUAINTED WITH EXISTING CONDITIONS WILL NOT BE JUSTIFICATION FOR ADDITIONAL SERVICES.
- E. 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.
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- G. ALL SINGLE PHASE BRANCH CIRCUITS SHOWN SHALL HAVE DEDICATED NEUTRALS TO MEET NEC SECTION 210.4 MULTI-WIRE BRANCH CIRCUIT REQUIREMENTS.
- H. REFER TO TECHNICAL DRAWINGS FOR CONDUIT ROUGH-IN IDATA, VOICE AND AV.
- I. ALL 120V BRANCH CIRCUITS ON THIS SHEET SHALL BE FED FROM PANEL 4N1.1 UNLESS NOTED OTHERWISE.

◆ KEYED NOTES

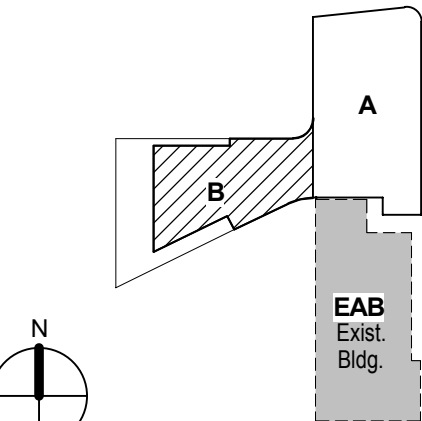
- E06** OUTLET SHALL BE MOUNTED TO THE BACK SIDE OF THE TELECOMMUNICATION RACK AND FEED FROM ABOVE. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH TELECOMMUNICATIONS CONTRACTOR PRIOR TO INSTALLATION.
- E08** OUTLET FOR DIGITAL SIGNAGE. COORDINATE MOUNTING HEIGHT AND EXACT LOCATION WITH ARCHITECTURAL ELEVATIONS AND A/V DRAWINGS.
- E55** PROVIDE POWER TO BUILDING AUTOMATION SYSTEM PANEL. COORDINATE LOCATION WITH AUTOMATION CONTRACTOR.
- E62** EQUAL TO 2HR FIRE CLASSIFIED 2-GANG MULTI-SERVICE STEEL RECESSED FLAT BOX EQUAL TO WIREMOLD CAT. NO. RFB25-FC WITH A BRASS FLANGED COVER CAT. NO. FFB25CS-NA. THE FLOOR BOX SHALL HAVE ALL NECESSARY MOUNTING BRACKETS FOR (2) 20A STANDARD DUPLEX RECEPTABLES, NEMA 5-20R. 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.



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-	ISSUED FOR CONSTRUCTION (BP2)	01 MAR 2016

No.	Description	Date
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KEY PLAN

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

Project No.: 04561.01

E0104.B