

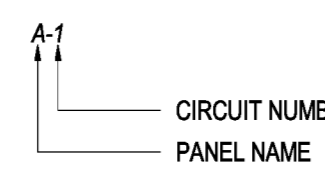
**POWER & MISCELLANEOUS SYSTEMS**

- 20A, 120V DUPLEX RECEPTACLE (CSA TYPE 5-20R) - MOUNTED 450mm A.F.F.
- 20A, 120V DUPLEX RECEPTACLE (CSA TYPE 5-20R) MOUNTED ABOVE COUNTER - 175mm ABOVE BACKSPASH OR 150mm A.F.F.
- 20A, 120V GFCI DUPLEX RECEPTACLE (CSA TYPE 5-20R) - MOUNTED 450mm A.F.F.
- 20A, 120V GFCI DUPLEX RECEPTACLE (CSA TYPE 5-20R) MOUNTED ABOVE COUNTER - 175mm ABOVE BACKSPASH OR 150mm A.F.F.
- 20A, 120V DOUBLE DUPLEX RECEPTACLE (CSA TYPE 5-20R) - MOUNTED 450mm A.F.F.
- 20A, 120V DOUBLE DUPLEX RECEPTACLE (CSA TYPE 5-15R) MOUNTED ABOVE COUNTER - 175mm ABOVE BACKSPASH OR 150mm A.F.F.
- 20A, 120V DOUBLE DUPLEX RECEPTACLE (CSA TYPE 5-20R), C/W ISOLATED GROUND - MOUNTED 450mm A.F.F.
- 20A, 120V SIMPLEX HOUSEKEEPING RECEPTACLE (CSA TYPE 5-30R) - MOUNTED 450mm A.F.F.
- 20A, 120V DUPLEX RECEPTACLE (CSA TYPE 5-20R) - MOUNTED IN CEILING SPACE
- RECESSED MOUNTED PANELBOARD
- SURFACE MOUNTED PANELBOARD
- AUTOMATIC DOOR OPERATOR
- NON-FUSED DISCONNECT SWITCH
- FUSED DISCONNECT SWITCH
- MAGNETIC MOTOR STARTER
- COMBINATION TYPE MAGNETIC MOTOR STARTER
- MANUAL MOTOR STARTER, SURFACE MOUNTED
- MANUAL MOTOR STARTER, RECESSED MOUNTED
- SMOKE AND FIRE DAMPER
- DIRECT CONNECTION TO MECHANICAL EQUIPMENT
- DIRECT CONNECTION TO ELECTRICAL EQUIPMENT
- CEILING MOUNTED JUNCTION BOX - REFER TO JUNCTION BOX LIST OF SUBSCRIPTS FOR TYPE. SOLID LINE WITH DOT INDICATES FLEXIBLE LIQUID TIGHT CONNECTION AND CONDUCTORS BY THE ELECTRICAL CONTRACTOR TO EQUIPMENT BY OTHERS.

**JUNCTION BOX LIST OF SUBSCRIPTS**

- EH ELECTROMAGNETIC DOOR HOLD OPEN DEVICE
- Denotes connection to electrical water chiller/hydration station components located in ceiling space. Provide GFCI protection, hushbell "300mA" OR EQUAL, MOUNT IN CEILING SPACE NEXT TO CHILLER. INSTALL CONDUIT AND WIRING FROM JB TO WALL MOUNTED HYDRATION STATION AND WIRE AND CONDUIT FROM JUNCTION BOX TO REMOTE CEILING SPACE MOUNTED CONDENSER, ASSUME APPROX. DISTANCE OF 3 METERS FROM JB TO REMOTE MTD. CONDENSER.
- HFF Denotes connection to control transformer for handa free fixture.
- LHFF Denotes connection between HFF control transformer and fixture by this division. MAXIMUM 10 FIXTURES PER HFF TRANSFORMER.

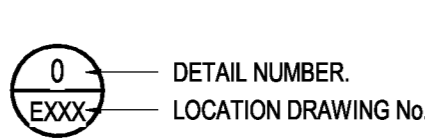
**CIRCUIT NUMBER TAGS**



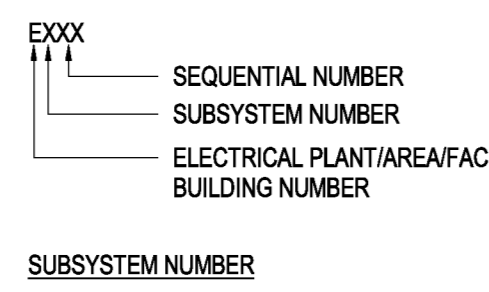
**CONDUIT SIZE DESIGNATION**

INCHES	METRIC DESIGNATOR
1/2	19mm
3/4	21mm
1	27mm
1 1/4	35mm
1 1/2	41mm
2	53mm
2 1/2	63mm
3	78mm
3 1/2	91mm
4	103mm
5	129mm
6	155mm
8	203mm

**DETAIL NUMBERING SYSTEM**



**DRAWING NUMBERING SYSTEM**



SUBSYSTEM NUMBER	60X ELECTRICAL DETAILS	60X ELECTRICAL SCHEDULES	70X SINGLE LINE DIAGRAMS
00X LEGEND			
10X DEMOLITION			
20X ELECTRICAL DISTRIBUTION PLANS			
30X LIGHTING SYSTEMS PLANS			
40X POWER SYSTEMS PLANS			

**LIGHTING SYSTEMS**

- LINEAR LUMINAIRE, TYPE AS SCHEDULED - CONNECTED TO PANEL A, CIRCUIT No. 1.
- SQUARE LUMINAIRE, TYPE AS SCHEDULED - CONNECTED TO PANEL A, CIRCUIT No. 1.
- LINEAR LUMINAIRE, CEILING SUSPENDED MOUNTED, TYPE AS SCHEDULED - CONNECTED TO PANEL A, CIRCUIT No. 1.
- LINEAR LUMINAIRE, WALL MOUNTED, TYPE AS SCHEDULED - CONNECTED TO PANEL A, CIRCUIT No. 1.
- LINEAR LUMINAIRE, MOUNTED IN COVE, TYPE AS SCHEDULED - CONNECTED TO PANEL A, CIRCUIT No. 1.
- WALL MOUNTED SCOONCE LUMINAIRE, TYPE AS SCHEDULED - CONNECTED TO PANEL A, CIRCUIT No. 1.
- CEILING MOUNTED DOWNLIGHT LUMINAIRE, TYPE AS SCHEDULED - CONNECTED TO PANEL A, CIRCUIT No. 1.
- WALL MOUNTED EXIT LIGHTING LUMINAIRE - ARROW INDICATES DIRECTION OF EXIT. LEADING MAN STYLE. SELF-POWERED FOR 90 MINUTES. "EXIT" INDICATES THAT LUMINAIRE IS LOCATED IN AN EXTERIOR ENVIRONMENT, AND SHALL BE WATERPROOF.
- CEILING MOUNTED EXIT LIGHTING LUMINAIRE - ARROW INDICATES DIRECTION OF EXIT. DOUBLE ARROW INDICATES DOUBLE-SIDED SIGNAGE. LED, RUNNING MAN STYLE. SELF-POWERED FOR 90 MINUTES.
- DIGITAL LIGHT MANAGEMENT (DLM) WALL MOUNTED VACANCY SENSOR - LOW VOLTAGE, 180 DEGREE COVERAGE, PASSIVE INFRARED/ULTRASONIC (PIRU) TECHNOLOGY, SELF ADJUSTING SENSITIVITY - LIGHT SENSOR, NONE, HVAC RELAY: INTEGRAL, 30V, 1A, FORM C ISOLATION RELAY, MAJOR COVERAGE: 37 3M (400 SF), MINOR COVERAGE: 21 36(227 SF), WATTS/TOPIER: 445/100 OR EQUAL.
- DIGITAL LIGHT MANAGEMENT (DLM) CEILING TYPE SENSOR - LOW VOLTAGE, 360 DEGREE COVERAGE, PASSIVE INFRARED/ULTRASONIC (PIRU) TECHNOLOGY, SELF ADJUSTING SENSITIVITY - LIGHT SENSOR, INTEGRAL, 30V, 1A, FORM C ISOLATION RELAY, MAJOR COVERAGE: 148 5M (1603 SF), MINOR COVERAGE: 92 5M (1000 SF), WATTS/TOPIER: 445/100 OR EQUAL.
- DIGITAL LIGHT MANAGEMENT (DLM) CLOSED LOOP DAYLIGHT DIMMING PHOTOODDIE - LOW VOLTAGE, 0-10V AUTOMATIC DAYLIGHTING CONTROL, SENSOR, WATTS/TOPIER: 8-30V OR EQUAL.
- DIGITAL LIGHT MANAGEMENT (DLM) - LOW VOLTAGE WALL SWITCH (DUAL ZONE) - SWITCHED APPLICATION: WATTS/TOPIER: 445/100 OR EQUAL.
- DIGITAL LIGHT MANAGEMENT (DLM) - LOW VOLTAGE WALL SWITCH - DIMMING APPLICATION: WATTS/TOPIER: 445/100 OR EQUAL.
- DIGITAL LIGHT MANAGEMENT (DLM) - LOW VOLTAGE, 4-BUTTON, ROOM CONTROL SWITCH - SWITCHED APPLICATION: WATTS/TOPIER: 445/100 OR EQUAL.
- 15A, 20V TOGGLE SWITCH
- WALL TIMER SWITCH - LOW VOLTAGE, DIGITAL, TIME SWITCH MINUTE TO 12 HOUR DURATION, LIGHT FLASH TIMEOUT WARNING - HVAC RELAY: INTEGRAL, 30V, 1A, FORM C ISOLATION RELAY, WATTS/TOPIER: 445/100 OR EQUAL.
- LIGHTING CONTROL TYPE IDENTIFIER - LETTER INDICATES THE LIGHTING CONTROL SCHEME FOR THE ROOM. REFER TO DRAWING 8807 FOR DETAILED DESCRIPTIONS OF EACH CONTROL TYPE, AND DRAWINGS 8902 AND 8903 FOR CONTROL SCHEMATICS. NOTE THAT NOT ALL LIGHTING CONTROL DEVICES ARE SHOWN ON THE FLOOR PLANS. CONTRACTOR TO USE LIGHTING CONTROL TYPE AND CONTROL SCHEMATICS TO DETERMINE EXACT NUMBER OF ROOM CONTROLS, RELAYS, PANELS, NETWORK BRIDGES AND OTHER CONTROL DEVICES REQUIRED.

**LOW VOLTAGE CONDUIT SYSTEMS**

- PROVIDE ALL CONDUIT WIREWAYS, JUNCTION BOXES, PULL BOXES, WORK BOXES, CABLE TRAY, CIRCUIT BREAKERS AND POWER WIRING FOR LOW VOLTAGE SYSTEMS INDICATED ON THE DRAWINGS OR AS SPECIFIED HEREIN, INCLUDING AS NECESSARY FOR THE PROPER AND COMPLETE PERFORMANCE OF THE WORK. LOW VOLTAGE SYSTEMS INCLUDE, BUT ARE NOT LIMITED TO:
  - DATA SYSTEM
  - AUDIOVISUAL SYSTEM
  - SECURITY SYSTEM
- RELATED SECTIONS DOCUMENTS AFFECTING WORK OF THIS SECTION INCLUDE, BUT ARE NOT NECESSARILY LIMITED TO:
  - AUDIO VISUAL DOCUMENTS: REFER TO ANY DRAWINGS FOR ALL RACEWAY AND BOX REQUIREMENTS. PROVIDE EMPTY METALLIC RACEWAY SYSTEM WITH FULL STRING FOR ALL AV SYSTEM DEVICES AND EQUIPMENT. COORDINATE FINAL LOCATIONS AND 120V REQUIREMENTS WITH AN INSTALLER. SEE NOTE 1. BELOW.
  - TELECOMMUNICATIONS DOCUMENTS: REFER TO TELECOMMUNICATIONS DRAWINGS FOR ALL EMPTY METALLIC RACEWAY AND CABLE TRAY SYSTEM WITH FULL STRING FOR TELECOMMUNICATION SYSTEM EQUIPMENT. COORDINATE FINAL LOCATIONS AND REQUIREMENTS WITH TELECOMMUNICATION SYSTEM INSTALLER. SEE NOTE 1. BELOW.
  - SECURITY DOCUMENTS: REFER TO SECURITY DRAWINGS FOR ALL RACEWAY AND BOX REQUIREMENTS. PROVIDE EMPTY METALLIC RACEWAY SYSTEM WITH FULL STRING FOR SECURITY SYSTEM DEVICES AND EQUIPMENT. COORDINATE FINAL LOCATIONS AND REQUIREMENTS WITH SECURITY SYSTEM INSTALLER. SEE NOTE 1. BELOW.
- COMPONENTS:
  - RACEWAY: MINIMUM SIZE OF 3/4 INCH METALLIC RACEWAY UNLESS INDICATED OTHERWISE.
  - PLYWOOD BACKBOARDS: 3/4 INCH NOMINAL THICKNESS.
  - BOXES: 4 - 1 1/8 INCHES SQUARE BY 2 1/8" DEEP BOXES WITH SINGLE GANG PLASTER REDUCER, UNLESS OTHERWISE NOTED.
  - GROUND: PROVIDE GROUNDING CONDUCTORS, BUS AND RACEWAY AS SCHEDULED.
  - PLATES: ACTIVE PLATES SHALL BE FURNISHED AND INSTALLED BY THE LOW VOLTAGE SYSTEM CONTRACTOR.
- EXAMINATION:
  - EXAMINE THE AREAS AND CONDITIONS UNDER WHICH THE LOW VOLTAGE SYSTEM ARE TO BE INSTALLED AND NOTIFY ENGINEER IN WRITING OF CONDITIONS DETRIMENTAL TO THE PROPER AND TIMELY COMPLETION OF WORK.
  - EXAMINE LOW VOLTAGE SYSTEM DOCUMENTS PROVIDED UNDER OTHER SECTIONS FOR RACEWAY SIZES, ROUTING AND LOCATION OF DEVICES.
- COORDINATION:
  - PROVIDE FOR A PRE-CONSTRUCTION MEETING WITH REPRESENTATIVES OF RELATED DISCIPLINES TO REVIEW INSTALLATION OF SYSTEM. THIS MEETING IS TO HELP RELATED TRADES UNDERSTAND THE REQUIREMENTS OF THE INSTALLATION.
  - OBTAIN FINAL, ROUNDED DIMENSIONS AND OTHER INFORMATION AS NEEDED TO PROPERLY LOCATE THE DEVICE.
  - KEEP FULLY INFORMED ABOUT SHAPE SIZE AND POSITION OF OPENINGS REQUIRED FOR MATERIAL AND EQUIPMENT.
  - PROVIDE FOR COORDINATION MEETINGS WITH THE CABLE INSTALLER TO SCHEDULE WHEN THE CONDUIT SYSTEM CAN BE UTILIZED FOR CABLE PULLING.
- INSTALLATION:
  - INSTALL RACEWAYS, BOXES AND CABLE TRAY WHERE INDICATED, IN ACCORDANCE WITH MANUFACTURERS WRITTEN INSTRUCTIONS, GUIDELINES AND THE APPLICABLE REQUIREMENTS OF THE NEC, LOCAL CODES, THE NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION'S "STANDARDS OF INSTALLATION" AND IN ACCORDANCE WITH RECOGNIZED INDUSTRY PRACTICES TO ENSURE THAT PRODUCTS SERVE THE INTENDED FUNCTION.
  - REFER TO THE LATEST EDITION OF THE IEC/ISA STANDARDS FOR ADDITIONAL INSTALLATION REQUIREMENTS.
  - BOXES SHALL BE SET FLUSH WITH FINISHED WALL SURFACE. PROVIDE PLASTER REDUCER RINGS AS REQUIRED. USE GANGED BOXES FOR OUTLETS HAVING THREE OR MORE CONDUITS ENTERING.
  - BACKBONE AND MAJOR RACEWAY GROUPINGS MULTIPLE 4" OR 6" CONDUITS) SHALL HAVE PULL BOXES SPACED NOT GREATER THAN 100 FEET APART AND IN RUNS WITH MORE THAN TWO RIGHT ANGLE BENDS.
  - PROVIDE NYLON PULL-IN WIRE IN CONDUITS FOR USE BY CABLE INSTALLER. PULL WIRE SHALL BE LABELED AT BOTH ENDS.
  - PROVIDE POWER REQUIREMENTS SUCH AS DUPLEX OUTLETS AND GROUND TERMINAL CONNECTIONS, AS REQUIRED BY TELEPHONE COMPANY AND AS SHOWN ON DRAWINGS.
  - PROVIDE LABEL ON PULL AND JUNCTION BOXES.
  - CONDUIT AND CABLE TRAY FOR TELECOMMUNICATIONS WIRING SHALL BE INSTALLED TO MAINTAIN A MINIMUM OF 6" SEPARATION FROM FLUORESCENT LIGHTING FIXTURES.
  - CABLE TRAY (SEE NOTE 1. BELOW):
    - CABLE TRAY SHALL BE INSTALLED ABOVE CEILING IN LARGE OPEN SPACES AS SHOWN ON DRAWINGS FOR MAIN CABLE ROUTING.
    - GROUND ALL EMPTY CONDUITS TO THE CABLE TRAY SYSTEM WITH #12 AWG COPPER INSULATED CONDUCTOR.
    - PROVIDE 4" CONDUIT SLEEVES THROUGH RATED WALLS.
  - WHERE ELECTRICAL DRAWINGS PROVIDES FUTURE PROVISIONS FOR TELECOMMUNICATION AT FLOOR BOXES AND PORE THRU'S ELECTRICAL CONTRACTOR SHALL PROVIDE A 4" CONDUIT TO NEAREST ACCESSIBLE CEILING WITH PULL STRING.
  - PROVIDE A DOUBLE GANG OUTLET BOX AND SINGLE GANG PLASTER RING FOR TELECOMMUNICATION. WHEN MOUNTING THE OUTLET BOX IN A STEEL STUDIED WALL, USE A BACK BRACE.
  - TELECOMMUNICATION OUTLET BOXES WITH 4 OR LESS CABLES SHALL HAVE ONE(1) 1" CONDUIT INSTALLED TO THE CABLE TRAY. BOXES WITH 5 OR MORE CABLES SHALL HAVE TWO (2) 1" CONDUITS INSTALLED TO THE CABLE TRAY AND REQUIRES A BOX EXTENDER FOR ADDITIONAL WALLBOX DEPTH. REFER TO "T" SERIES RISER DIAGRAMS FOR FOR THE CONDUIT SIZE REQUIREMENTS.
- APPLICATION:
  - GENERALLY RACEWAYS SHALL BE EMT AND RUN CONCEALED IN WALLS AND ABOVE CEILINGS. EMT SHALL BE USED IN CEILING AIR PLENA AND AS SHOWN ON DRAWINGS.
  - RACEWAY FOR WALL BOXES SHALL BE INSTALLED IN CONDUIT TO ABOVE ACCESSIBLE CEILING SPACE CABLE TRAY OR TELECOMMUNICATIONS CLOSET.
  - RACEWAYS FOR FLOOR BOXES SHALL BE INSTALLED IN CONDUIT TO ACCESSIBLE CEILING SPACE CABLE TRAY OR TELECOMMUNICATIONS CLOSET.
  - CONDUIT RUNS SHALL BE INSTALLED TO MEET REQUIREMENTS OF CABLE INSTALLER AND SHALL BE MINIMUM OF 3" OR OF SIZE AS SHOWN ON DRAWINGS. PROVIDE INSULATED GROUND BUSHING AT END OF EACH CONDUIT RUN.

**NOTES**

- REFER TO TECHNOLOGY DRAWINGS (T-SERIES) AND DIVISION 27 SPECIFICATIONS FOR EXACT MOUNTING HEIGHT, MOUNTING DETAILS, LOCATION AND DESCRIPTION OF POWER REQUIREMENTS, BACK-BOXES, CONDUIT, CABLE TRAY AND OTHER PATHWAYS REQUIRED FOR THE AUDIOVISUAL, STRUCTURED CABLING AND SECURITY INFRASTRUCTURE INSTALLATION. ALL WORK ASSOCIATED WITH THE FURNISHING AND INSTALLATION OF ALL POWER CIRCUITS, BACK-BOXES, CONDUITS, BLOCKING, CABLE TRAY AND MISCELLANEOUS POSITIONING MATERIALS, REQUIRED FOR A COMPLETE INSTALLATION OF THE AUDIOVISUAL, STRUCTURED CABLING AND SECURITY INFRASTRUCTURE SHALL BE INCLUDED UNDER THE DIVISION 28 PORTION OF THIS PROJECT, UNLESS OTHERWISE NOTED.

**DEMOLITION ELECTRICAL SYSTEMS**

- EXISTING LINEAR LUMINAIRE, CEILING SUSPENDED MOUNTED - SUBSCRIPT INDICATES PHASE STATUS.
- EXISTING SQUARE DOWNLIGHT, CEILING RECESSED MOUNTED - SUBSCRIPT INDICATES PHASE STATUS.
- EXISTING WALL MOUNTED EXIT LIGHTING LUMINAIRE - ARROW INDICATES DIRECTION OF EXIT. SUBSCRIPT INDICATES PHASE STATUS.
- EXISTING CEILING MOUNTED EXIT LIGHTING LUMINAIRE - ARROW INDICATES DIRECTION OF EXIT, DOUBLE ARROW INDICATES DOUBLE-SIDED SIGNAGE. SUBSCRIPT INDICATES PHASE STATUS.
- EXISTING 20A, 120V DUPLEX RECEPTACLE - SUBSCRIPT INDICATES PHASE STATUS.
- EXISTING 20A, 120V GFCI DUPLEX RECEPTACLE (CSA TYPE 5-20R) - SUBSCRIPT INDICATES PHASE STATUS.
- EXISTING DIRECT CONNECTION TO MECHANICAL EQUIPMENT

**ELECTRICAL ABBREVIATIONS**

A	AMPERES
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
AIC	AMPERE INTERRUPTING CAPACITY
AL	ALUMINUM
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ARCH	ARCHITECT
ATC	AUTOMATIC TEMPERATURE CONTROL
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BFG	BELOW FINISH GRADE
BLDG	BUILDING
C	CONDUIT
CAT	CATALOG
CB	CIRCUIT BREAKER
CBM	CERTIFIED BALLAST MANUFACTURERS
CKT	CIRCUIT
CL	CENTRELINE
CLF	CURRENT LIMITING FUSE
COL	COLUIMN
CPT	CONTROL POWER TRANSFORMER
CT	CURRENT TRANSFORMER
CU	COPPER
CUH	CABINET UNIT HEATER
DDC	DIRECT DIGITAL CONTROL
DWG	DRAWINGS
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
EPO	EMERGENCY POWER OFF
EWV	ELECTRIC WATER COOLER
F	FUSE
FA	FIRE ALARM
FCU	FAN COIL UNIT
FLA	FULL LOAD AMPERES
FMC	FLEXIBLE METAL CONDUIT
FT	FEET
GI	GROUNDING FAULT INTERRUPTER
GND, G	GROUND OR GROUNDING
GRC	GALVANIZED RIGID CONDUIT
HDA	HAND OFF AUTOMATIC SWITCH
HPF	HIGH POWER FACTOR
IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
INT	INTERLOCK
kmil	THOUSAND CIRCULAR MILS
kVA	KILOVOLT AMPERES
kw	KILOWATTS
LFMC	LIQUIDTIGHT FLEXIBLE METAL CONDUIT
LTG	LIGHTING
MC	METAL CLAD
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTRE
MCP	MOTOR CIRCUIT PROTECTOR
MISC	MISCELLANEOUS
MLO	MARK LUGS ONLY
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NT	NOT IN CONTACT
NO	NORMALLY OPEN OR NUMBER
NTS	NOT TO SCALE
P	POLE
PB	PURSBUTTON
PNL	PANEL
POS	PROVIDED UNDER OTHER SECTIONS
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE
PWR	POWER
QTY	QUANTITY
REQD	REQUIRED
RMC	RIGID METAL CONDUIT
RMS	ROUND MEAN SQUARED
RNMC	RIGID NON-METALLIC CONDUIT
RTU	ROOF TOP UNIT
SP	SPARE
SW	SWITCH
SYM	SYMMETRICAL
TEL	TELEPHONE
TMB	THERMAL MAGNETIC CIRCUIT BREAKER
U.O.N	UNLESS OTHERWISE NOTED
UG	UNDERGROUND OR UNDERGRADE
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORIES
UPS	UNINTERRUPTIBLE POWER SUPPLY
US	UNSWITCHED
V	VOLT
W	WIRE
WH	WATER HEATER
WP	WEATHERPROOF
XFR	TRANSFORMER
WYE	WYE
ø	PHASE
Δ	DELTA

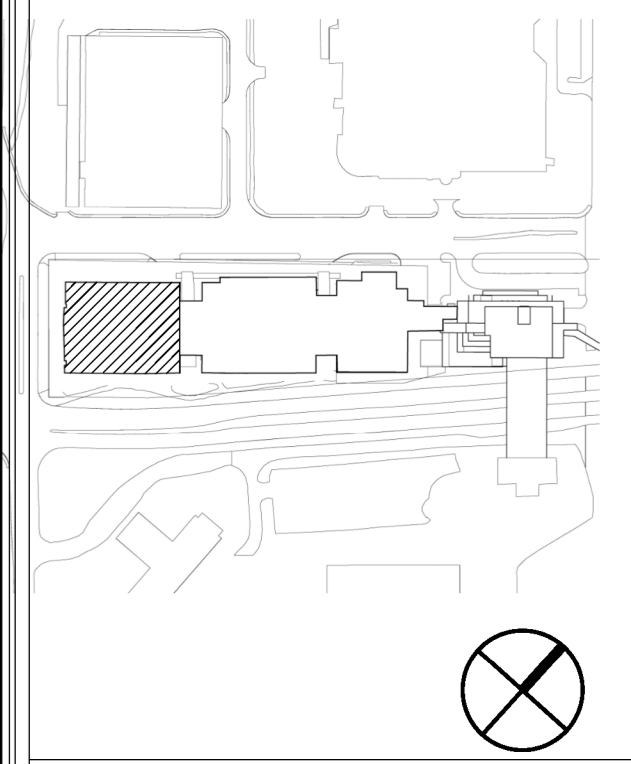
**LIST OF DRAWINGS**

E001	ELECTRICAL LEGEND AND LIST OF DRAWINGS
E101	DEMOLITION LIGHTING FLOOR PLAN - LEVEL 5, PAV-A
E102	DEMOLITION POWER FLOOR PLAN - LEVEL 5, PAV-A
E201.5	PARTIAL ELECTRICAL DISTRIBUTION PLAN - LEVEL 1.5
E206	ELECTRICAL DISTRIBUTION PLAN - PENTHOUSE
E301	REVISED LIGHTING FLOOR PLAN - LEVEL 5, PAV-A
E401	REVISED POWER SYSTEMS FLOOR PLAN - LEVEL 5 PAV-A
E501	ELECTRICAL DETAILS
E502	ELECTRICAL DETAILS
E503	ELECTRICAL DETAILS
E504	ELECTRICAL DETAILS
E501	ELECTRICAL SCHEDULES
E602	ELECTRICAL SCHEDULES
E701	SINGLE LINE DIAGRAM - STACK COVE 'D'

**LIST OF SUBSCRIPTS**

- 3 INDICATES 3 WAY
- 4 INDICATES 4 WAY
- INDICATES SWITCHING ARRANGEMENTS
- 0 INDICATES DIMMER
- EX INDICATES EXISTING TO BE REMOVED
- ER INDICATES EXISTING TO REMAIN
- NL INDICATES EXISTING MOUNTED IN NEW LOCATION
- INDICATES EXISTING TO BE RELOCATED
- WP INDICATES WEATHERPROOF

**Key Plan**



Client:

**MEMORIAL UNIVERSITY**  
Department of Facilities Management  
*This University was raised by the people of Newfoundland as a memorial to the fallen in the great wars, 1914-1918, 1939-1945, that in freedom of learning, their cause and sacrifice might not be forgotten.*  
*- Dedication plaque, Arts & Administration Building, St. John's Campus*

Prepared For  
**MEMORIAL UNIVERSITY OF NEWFOUNDLAND**  
ST. JOHN'S, NEWFOUNDLAND

Architect Prime Consultant:

**FOUGERE MCHENTON ARCHITECTURE**

Discipline:

**ELECTRICAL**

Sub-Consultant: Mechanical and Electrical

PROVINCE OF NEWFOUNDLAND AND LABRADOR

PERMIT HOLDER  
**pegnl**  
This Permit Allows  
**JEWELL BAILEY CONSULTANTS INC.**  
to practice Professional Engineering in Newfoundland and Labrador. Permit No. as issued by PEG 06540 which is valid for the year 2023.

- FOR RECEPTACLES IN LABS, RESEARCH AREAS, AND OPEN STUDENT AREAS, RECEPTACLES TO CONNECT TO PANEL TYPE PP LOCATED IN CORRIDORS.
- FOR RECEPTACLES IN OFFICES, CORRIDORS, UTILITY AREAS, OR OTHER SPACES, CONNECT TO 208V PANEL TYPE PP LOCATED IN ELECTRICAL ROOMS.
- FOR STANDARD 5-20R RECEPTACLES, USE #10 AWG RW90 + #12 TW GROUND IN 2"min CONDUIT AND 20A, 1P CIRCUIT BREAKER.
- FOR SPECIALLY RECEPTACLES AS IDENTIFIED IN THE RECEPTACLE SCHEDULE, USE THE APPROPRIATE WIRE, CONDUIT AND CIRCUIT BREAKER.

FOR ANY JUNCTION BOX OR HARD-WIRED CONNECTION SHOWN ON THE FLOOR PLANS WITHIN A CIRCUIT TAG, SUPPLY AND INSTALL WIRING AND CONDUIT FROM DEVICE TO NEAREST APPROPRIATE PANELBOARD (PER BELOW), AND SUPPLY AND INSTALL CIRCUIT BREAKER PANELBOARD TO SUIT. EACH DEVICE TO HAVE AN INDEPENDENT CIRCUIT. SUPPLY AND INSTALL ALSO ALL WIRING AND CONDUIT FROM DEVICE AND ASSOCIATED PANELBOARD TO ANY REQUIRED MOTOR STARTERS, VFDs, OR OTHER CONTROL DEVICES AS OUTLINED IN THESE DOCUMENTS.

- FOR RATED UNIT HEATERS AND UNIT HEATER CONNECTION TO PANEL TYPE EMB IN ELECTRICAL ROOMS, DOWNSTREAM OF SWITCH TYPE ATLS; FOR PAN COIL UNITS, CONNECT TO 208V PANEL TYPE PP IN ELECTRICAL ROOMS. PAN COIL UNIT TYPES 17, 1, 1.8, 1.3 TO BE PROVIDED WITH #10 AWG WIRING AND 30A, 1P CIRCUIT BREAKER.
- ALL BRANCH CIRCUITS SHALL BE INSTALLED IN CONDUIT OR WHERE REQUIRED OR PERMITTED BY THE SPECIFICATION, SHALL BE AN ARMOURDED CABLE. REFER TO THE SPECIFICATION.
- THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE SUPPLY AND INSTALLATION OF ALL VFDs, UNLESS SPECIFICALLY INDICATED OTHERWISE.
- LIGHT FIXTURES WITHOUT A CIRCUIT ALLOCATED SHALL BE CONNECTED TO THE NEAREST AVAILABLE CIRCUIT.

Drawn: E.D. Checked: D.C.  
Designed: E.D. Approved: D.C.  
Consultants Project No. **JBC-22-C-106**  
Professional Stamp & Permit

- Notes:
- DO NOT SCALE FROM THIS DRAWING.
  - UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN MILLIMETRES.
  - CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS ON SITE PRIOR TO PROCEEDING WITH ANY PORTION OF THIS WORK.
  - CONTRACTOR SHALL DO ALL WORK IN ACCORDANCE WITH THE APPLICABLE STANDARDS AND CODES INCLUDING, BUT NOT LIMITED TO, THE NATIONAL BUILDING CODE OF CANADA.

No.	Revisions	MMDDYY
1	ISSUED FOR CONSTRUCTION	2023-02-13
2	ISSUED FOR ADDENDUM #2	2022-12-14
3	ISSUED FOR TENDER	2022-12-01
4	ISSUED FOR 80% REVIEW	2022-09-30
5	ISSUED FOR 30% REVIEW	2022-09-08
6	ISSUED FOR REVIEW	2022-08-19
7	ISSUED FOR 50% DD	2022-08-09

Detail/Section No. **3** Dwg. No. where detailed

PROJECT TITLE  
**OFI FIT UP, PAV-A, LEVEL 5**

Client's Project No.: CSF-001-21

**ELECTRICAL LEGEND AND LIST OF DRAWINGS**

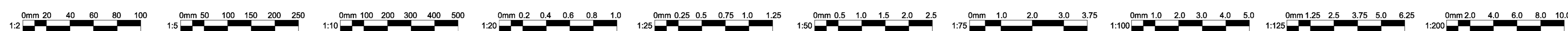
SCALE: 1"=10'

DATE: 2023-02-13

REVISION NO. 2

DRAWING NO. **E001**

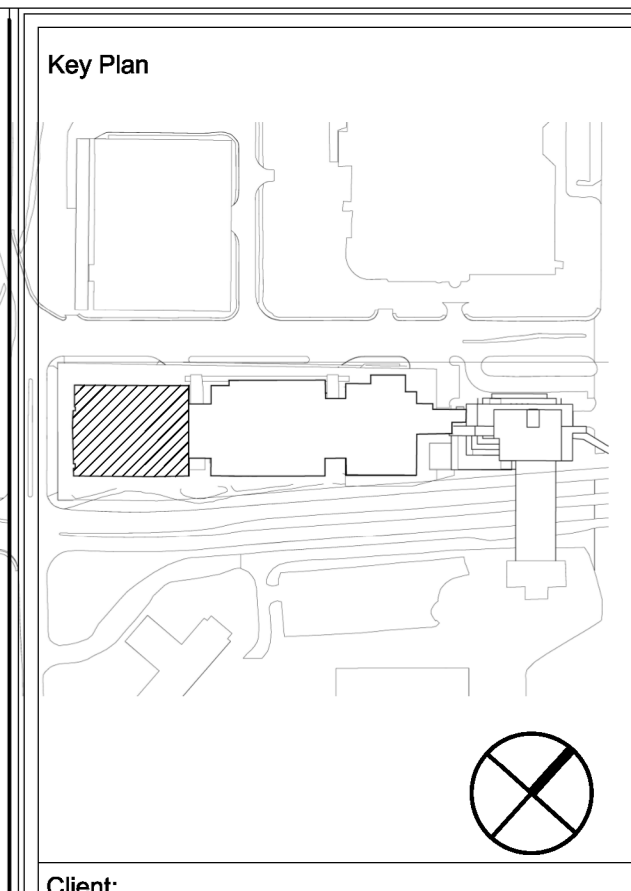
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Eb  
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Fx  
Fa  
Fb  
Fc  
Fd  
G  
H

- NOTES:
- FOR ALL DEVICES AND FIXTURES BEING REMOVED, ELECTRICAL CONTRACTOR TO DISCONNECT CIRCUIT AND REMOVE ALL EXISTING WIRING AND CONDUIT BACK TO SOURCE, UNLESS INDICATED OTHERWISE.
  - EXISTING LIGHT FIXTURES INSTALLED IN T-BAR CEILING IN THIS CORRIDOR TO BE REMOVED AND STORED IN A SECURE LOCATION. (NOTE: THESE FIXTURES WILL BE REINSTALLED IN THE REVISED LIGHTING LAYOUT.) ELECTRICAL CONTRACTOR TO DISCONNECT FIXTURE AND REMOVE EXISTING CONDUIT AND WIRING BACK TO THE NEAREST JUNCTION BOX IN CEILING. NOTE: LOCATION AND POWER SOURCE AS THIS CIRCUIT WILL BE USED TO POWER LIGHT FIXTURES IN THE REVISED LAYOUT.
  - EXISTING LIGHT FIXTURES INSTALLED IN GYPSUM CEILING TO BE REMOVED AND TURNED OVER TO THE OWNER. CONTRACTOR TO REARRANGE WIRING AS REQUIRED TO ENSURE THAT ALL REMAINING FIXTURES ON THE ASSOCIATED CIRCUIT WILL REMAIN OPERATIONAL. REMOVE ASSOCIATED CONDUIT AND WIRING BACK TO NEAREST JUNCTION BOX. THE DESIGNATION 'SB' INDICATES THE FIXTURE IS POWERED FROM EMERGENCY POWER SYSTEM.
  - TYPICAL OF NINE (9) LIGHT FIXTURES EXISTING SUSPENDED LIGHT FIXTURES INSTALLED IN OPEN TENANT SPACE TO BE REMOVED AND STORED IN A SECURE LOCATION. (NOTE: THESE FIXTURES WILL BE REINSTALLED IN THE REVISED LIGHTING LAYOUT.) ELECTRICAL CONTRACTOR TO DISCONNECT FIXTURE AND REMOVE EXISTING CONDUIT AND WIRING BACK TO THE NEAREST JUNCTION BOX IN CEILING.
  - EXISTING LIGHTING CONTROL SENSORS INSTALLED IN T-BAR CEILING IN THIS CORRIDOR TO BE REMOVED AND STORED IN A SECURE LOCATION. (NOTE: THESE DEVICES WILL BE REINSTALLED IN THE REVISED LIGHTING LAYOUT.) ELECTRICAL CONTRACTOR TO DISCONNECT SENSOR AND REMOVE EXISTING CONDUIT AND WIRING BACK TO THE NEAREST JUNCTION BOX IN CEILING.



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- Dedication plaque, Arts & Administration Building, St. John's Campus

Prepared For  
**MEMORIAL UNIVERSITY OF NEWFOUNDLAND**  
ST. JOHN'S, NEWFOUNDLAND

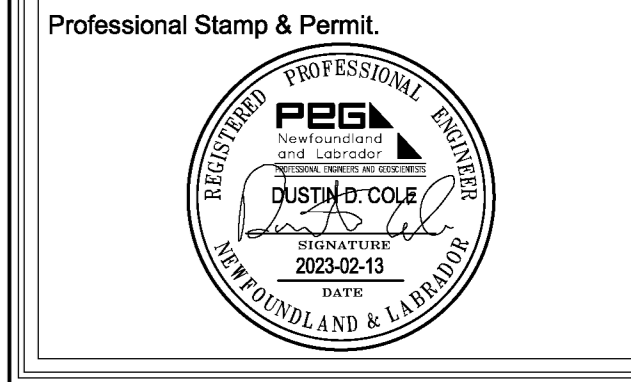
Architect Prime Consultant:  
**FOUGERE MENCHENTON ARCHITECTURE**

Discipline:  
**ELECTRICAL**  
Sub-Consultant: Mechanical and Electrical  
**JBC JEWEL BAILEY CONSULTANTS**

PROVINCE OF NEWFOUNDLAND AND LABRADOR  
**PERMIT HOLDER**  
This Permit Allows  
**JBC JEWEL BAILEY CONSULTANTS LTD.**  
M.B.C. 123456789  
To practice Professional Engineering in Newfoundland and Labrador  
Permit No. as issued by PEG 00540 which is valid for the year 2023.

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Consultants Project No.  
**JBC-22-C-106**



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No.	Revisions	MM/DD/YY
2	ISSUED FOR CONSTRUCTION	2023-02-13
1	ISSUED FOR ADDENDUM #2	2022-12-14
0	ISSUED FOR TENDER	2022-12-01
B	ISSUED FOR 50% REVIEW	2022-09-30
A	ISSUED FOR 30% REVIEW	2022-09-08

Drawing Nomenclature  
Detail/Section No. **3** / **A-1** ← Dwg. No. where detailed

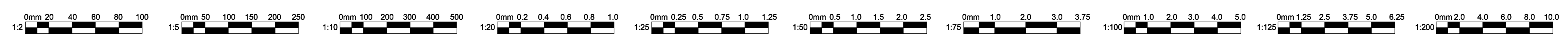
PROJECT TITLE  
**OFI FIT UP, PAV-A, LEVEL 5**

Client's Project No.: CSF-001-21

DRAWING TITLE  
**DEMOLITION LIGHTING FLOOR PLAN - LEVEL 5, PAV-A**

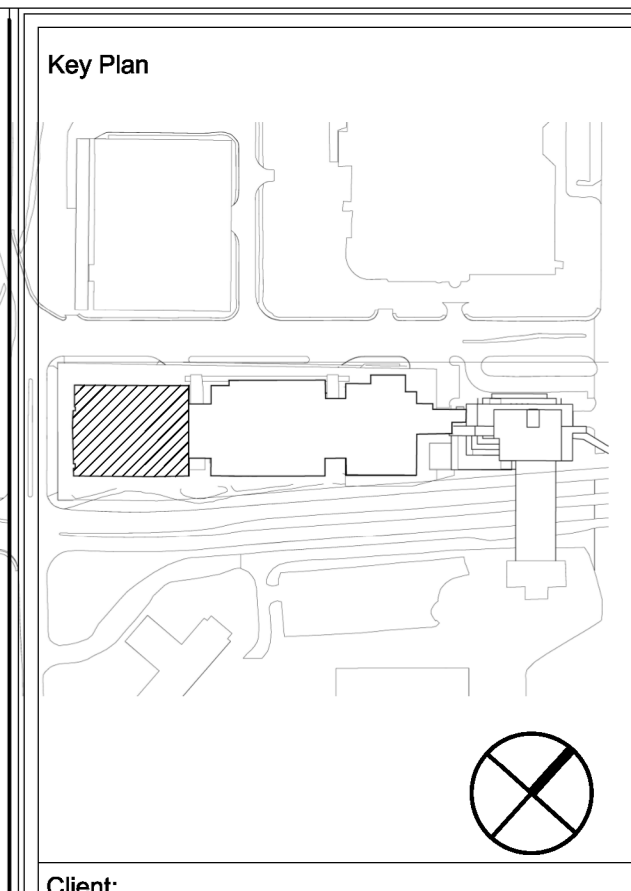
SCALE: 1:75  
DATE: 2023-02-13  
REVISION NO.: 2  
DRAWING NO.: **E101**  
2/10/2023 4:13:44 PM

**1 DEMOLITION LIGHTING FLOOR PLAN - LEVEL 5 PAV-A SHELLED SPACE**  
E101 1:75





- NOTES:
1. FOR ALL DEVICES AND FIXTURES BEING REMOVED, ELECTRICAL CONTRACTOR TO DISCONNECT CIRCUIT AND REMOVE ALL EXISTING WIRING AND CONDUIT BACK TO SOURCE, UNLESS INDICATED OTHERWISE.
  2. EXISTING UNIT HEATER IN CEILING SPACE TO BE REMOVED. ELECTRICAL CONTRACTOR TO DISCONNECT CIRCUIT AND REMOVE CONDUIT AND WIRING BACK TO SOURCE. EXISTING BRANCH BREAKER TO REMAIN AND IDENTIFY AS "SPARE".



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Architect Prime Consultant:

**FOUGERE MENCHENTON ARCHITECTURE**

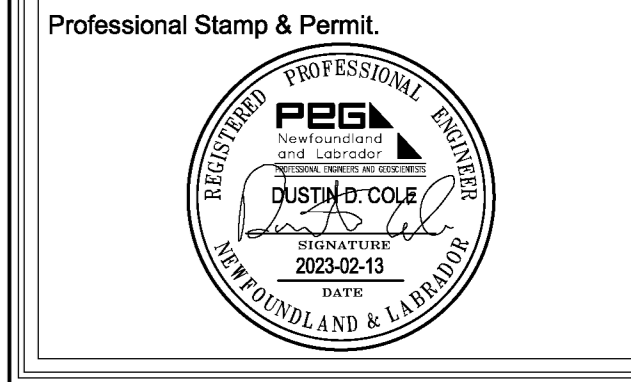
Discipline:  
**ELECTRICAL**  
 Sub-Consultant: Mechanical and Electrical

**JBC** JEWEL BAILEY CONSULTANTS  
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Designed:	E.D.	Approved:	D.C.

Consultants Project No.  
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A	ISSUED FOR 33% REVIEW	2022-09-08

Drawing Nomenclature  
 Detail/Section No. **3** / **A-1** ← Dwg. No. where detailed

PROJECT TITLE  
**OFI FIT UP, PAV-A, LEVEL 5**

Client's Project No.: CSF-001-21

DRAWING TITLE  
**DEMOLITION POWER FLOOR PLAN - LEVEL 5, PAV-A**

SCALE  
 1:75

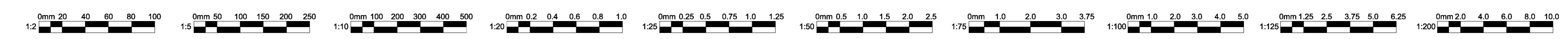
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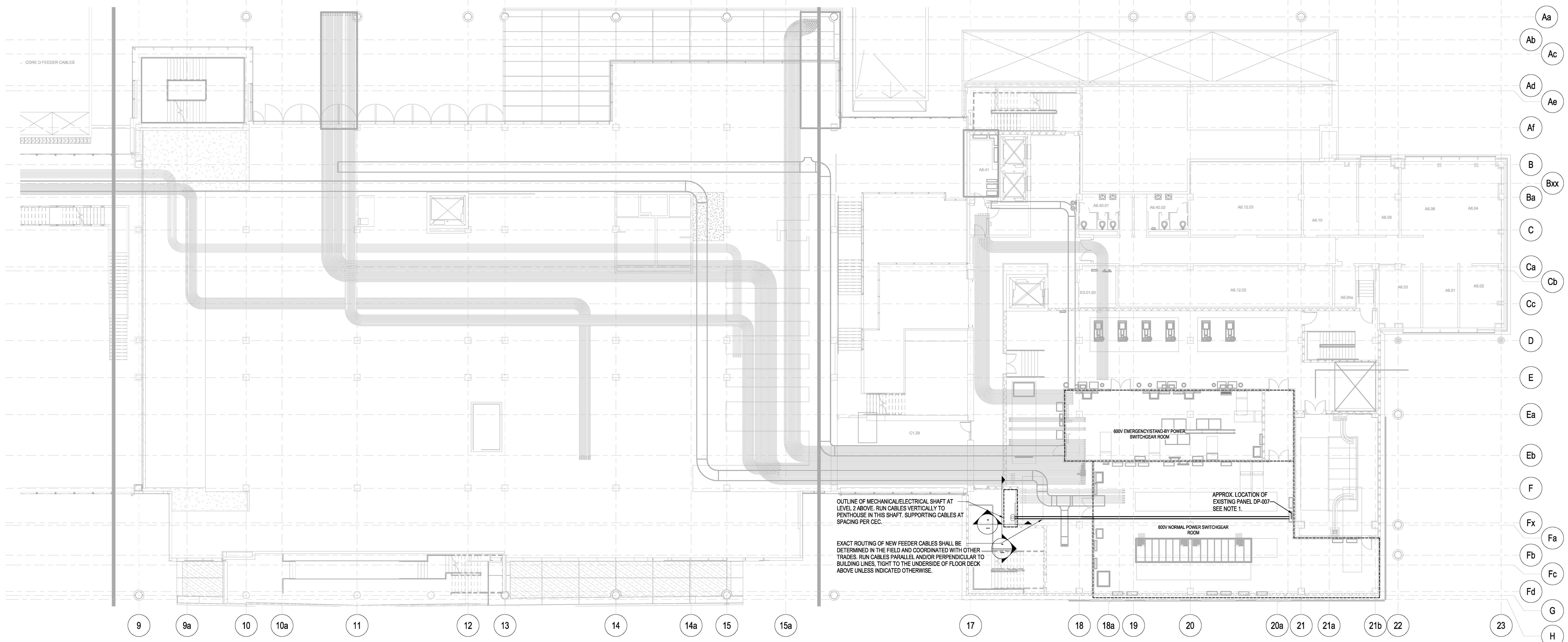
REVISION NO.  
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DRAWING NO.  
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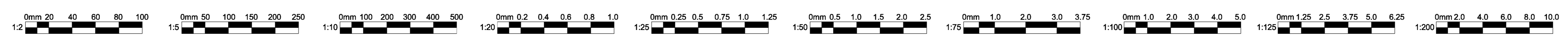
**1** DEMOLITION POWER FLOOR PLAN - LEVEL 5 PAV-A SHELLED SPACE  
 E102 1:75





**1 PARTIAL LEVEL 1.5 ELECTRICAL DISTRIBUTION PLAN**  
E201.5 1:150

- NOTES:**
- EXISTING PANEL DP-007 IS A SQUARE D HLINE CIRCUIT BREAKER TYPE 347800V, 1200A, 3Ø, 4W, SURFACE MOUNTED. FOR POWER TO NEW PANEL LP-021, SUPPLY AND INSTALL ONE (1) 150A/125AT, 3Ø HR TYPE BREAKER IN AVAILABLE EMPTY SPACE. RUN 4Ø/0 + GND TECK 90 CABLE FROM EXISTING PANEL DP-007 TO NEW PANEL LP-021 IN LEVEL 5 ELECTRICAL ROOM. FOR POWER TO NEW PANEL DP-037, SUPPLY AND INSTALL ONE (1) 100A/50AT, 3Ø HR TYPE BREAKER IN AVAILABLE EMPTY SPACE. RUN 3Ø/2 + GND TECK 90 CABLE FROM EXISTING PANEL DP-007 TO NEW TRANSFORMER IN LEVEL 5 ELECTRICAL ROOM. AC RATINGS FOR NEW BREAKERS TO BE 65A. SUPPLY AND INSTALL MOUNTING HARDWARE AS REQUIRED. MAKE FINAL CONNECTIONS.



**Key Plan**

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Architect Prime Consultant:  
**FOUGERE MENCHENTON ARCHITECTURE**

Discipline:  
**ELECTRICAL**

Sub-Consultant: Mechanical and Electrical  
**JBC JEWELLER BALEY CONSULTANTS**

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C	ISSUED FOR 30% REVIEW	2022-09-08
B	ISSUED FOR REVIEW	2022-08-19
A	ISSUED FOR 50% DD	2022-08-09
No.	Revisions	MM/DD/YY

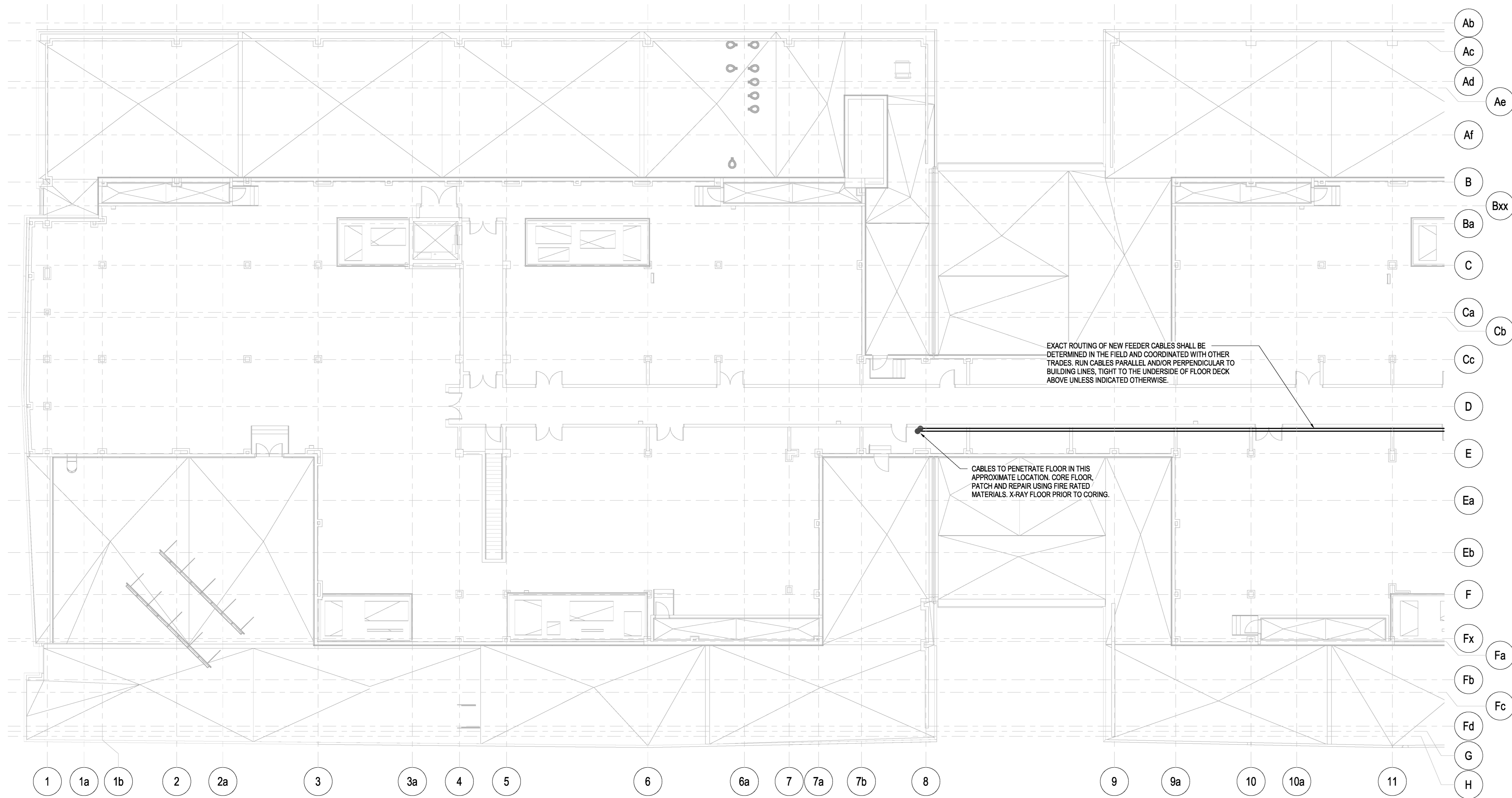
Detail/Section No. **3** Dwg. No. **A-1** where detailed

PROJECT TITLE  
**OFI FIT UP, PAV-A, LEVEL 5**

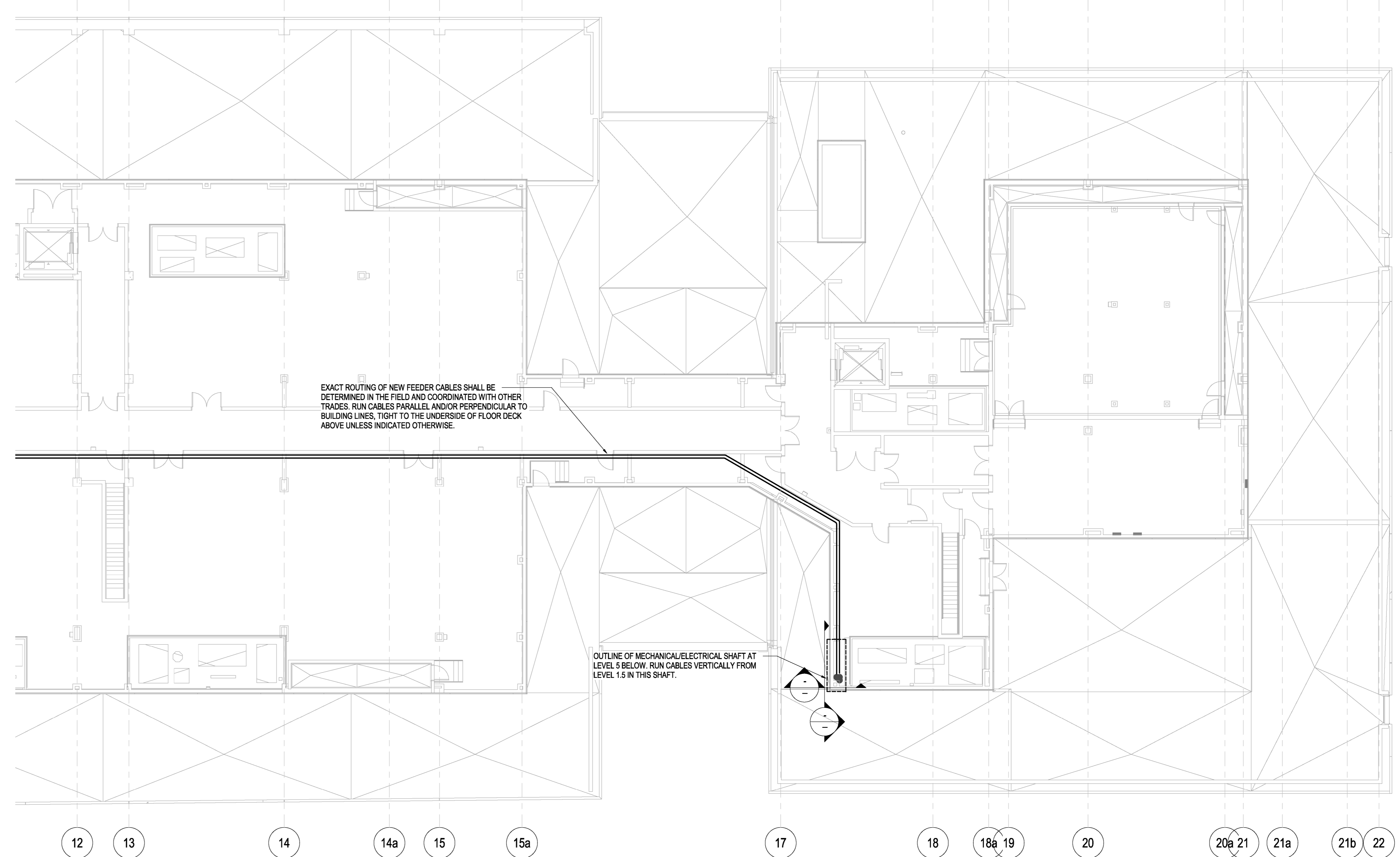
Client's Project No.: CSF-001-21

DRAWING TITLE  
**PARTIAL ELECTRICAL DISTRIBUTION PLAN - LEVEL 1.5**

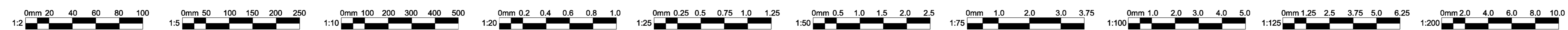
SCALE: 1:150 DRAWING NO.: **E201.5**  
 DATE: 2023-03-13  
 REVISION NO.: 2 2/10/2023 4:13:51 PM



**1 PARTIAL PENTHOUSE ELECTRICAL DISTRIBUTION PLAN - PAV-A,B**  
E206 1:150



**2 PARTIAL PENTHOUSE ELECTRICAL DISTRIBUTION PLAN - PAV-B,C**  
E206 1:150



**Key Plan**

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**Prepared For:**  
**MEMORIAL UNIVERSITY OF NEWFOUNDLAND**  
 ST. JOHN'S, NEWFOUNDLAND

**Architect Prime Consultant:**  
**FOUGERE MENCHENTON ARCHITECTURE**

**Discipline:**  
**ELECTRICAL**  
 Sub-Consultant: Mechanical and Electrical

**JBC JEWEL BAILEY CONSULTANTS**

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 M.B.C. 123456789  
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Consultants Project No.  
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1	ISSUED FOR CONSTRUCTION	2023-02-13
0	ISSUED FOR ADDENDUM #2	2022-12-14
No.	Revisions	MMDDYY

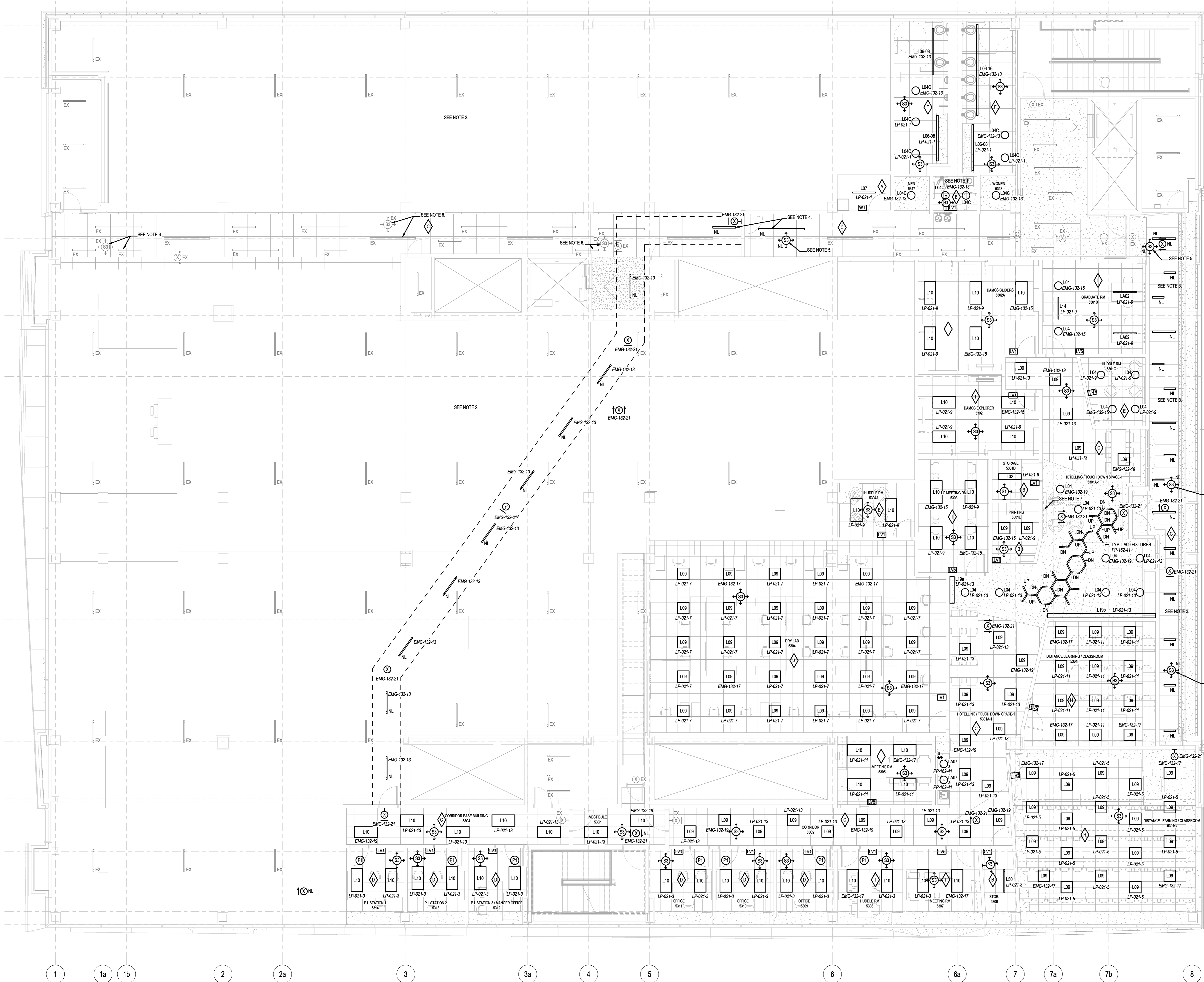
Drawing Nomenclature  
 Detail/Section No. **3**  
 A-1 ← Dwg. No. where detailed

**PROJECT TITLE**  
**OFI FIT UP, PAV-A, LEVEL 5**

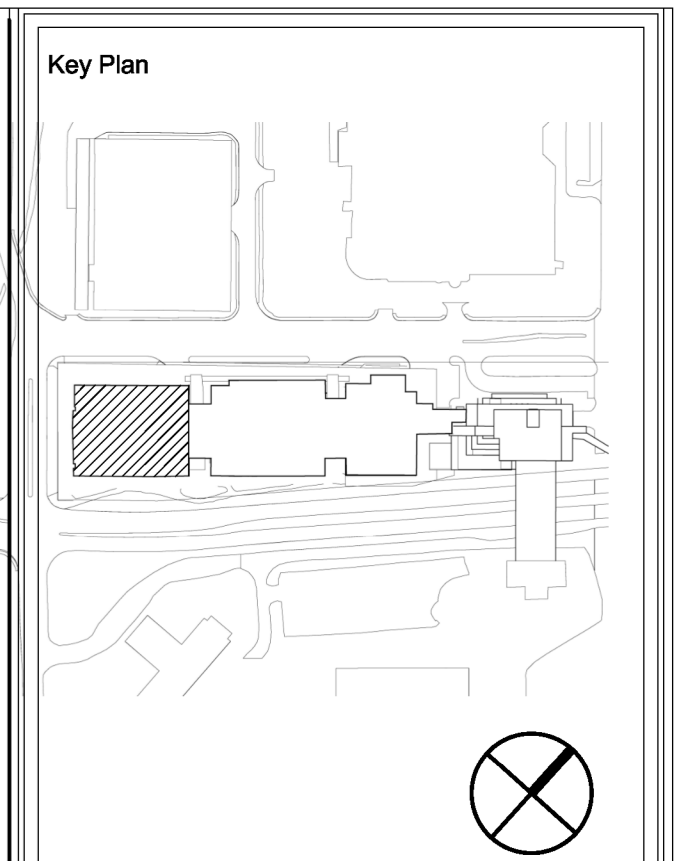
Client's Project No.: CSF-001-21

**DRAWING TITLE**  
**ELECTRICAL DISTRIBUTION PLAN - PENTHOUSE**

SCALE	1:150	DRAWING NO.	E206
DATE	2023-02-13	REVISION NO.	1
REVISION NO.	1	2/13/2023 4:13:56 PM	



- NOTES:**
- TYPICAL CIRCUIT ALL LIGHT FIXTURES IN THIS ROOM TO THIS CIRCUIT UNLESS INDICATED OTHERWISE.
  - EXISTING LIGHTING FIXTURES TO REMAIN LIGHT FIXTURES IN THIS SECTION OF THE SHELL SPACE TO BE RE-WIRED TO BE CONTROLLED FROM SWITCHES IN THIS SPACE ONLY. EXISTING FIXTURES PRESIDENTLY ON NORMAL POWER TO REMAIN ON NORMAL POWER AND EXISTING FIXTURES ON EMERGENCY POWER TO REMAIN ON EMERGENCY POWER. RE-WIRE AND PROVIDE NEW DEVICES AS REQUIRED.
  - EXISTING LIGHTING FIXTURES IN THIS CORRIDOR TO BE REINSTALLED IN NEW CEILING IN LOCATIONS INDICATED. RECONNECT FIXTURES TO SAME POWER SOURCE BY EXTENDING CIRCUIT TO LIGHT FIXTURES AS REQUIRED. ELECTRICAL CONTRACTOR TO PROVIDE CONDUIT AND WIRING FROM NEAREST EXISTING JUNCTION BOX AND MAKE FINAL CONNECTIONS.
  - EXISTING LIGHTING FIXTURES TO BE REINSTALLED IN SAME LOCATION. RECONNECT FIXTURES TO SAME POWER SOURCE. EXTENDING THE CIRCUIT TO LIGHT FIXTURES AS REQUIRED. ELECTRICAL CONTRACTOR TO PROVIDE CONDUIT AND WIRING FROM NEAREST EXISTING JUNCTION BOX AND MAKE FINAL CONNECTIONS. REPROGRAM LIGHTING CONTROL SEQUENCE TO MATCH EXISTING CONDITIONS.
  - EXISTING LIGHTING CONTROL SENSOR TO BE REINSTALLED IN CEILING. RECONNECT DEVICE TO SAME POWER SOURCE BY EXTENDING CIRCUIT TO NEW LOCATION AS REQUIRED. ELECTRICAL CONTRACTOR TO PROVIDE CONDUIT AND WIRING FROM NEAREST EXISTING JUNCTION BOX AND MAKE FINAL CONNECTIONS. REPROGRAM LIGHTING CONTROL SEQUENCE TO MATCH EXISTING CONDITIONS.
  - EXISTING LIGHTING CONTROL SENSORS CONTROLLING EXISTING LIGHT FIXTURES IN THIS REVISION CORRIDOR SECTION TO BE REPROGRAMMED TO A NEW ZONE.
  - AT ACCENT WALL LOCATION, CONTRACTOR SHALL SUPPLY AND INSTALL FIVE (5) LIGHT FIXTURES. REFER TO ARCHITECTURAL DETAIL 7, DRAWING A-501, DETAIL 8, DRAWING A-502, AND DETAIL 9, DRAWING A-503 FOR INSTALLATION METHOD. FIXTURES SHALL BE APPROXIMATELY 500mm x 276mm. EXACT LENGTH TO BE COORDINATED IN THE FIELD VIA MEASUREMENT AND CONFIRMED PRIOR TO ORDER. COLOUR TEMPERATURE TO BE 5000K. FOUR SIDE LED, 3W VOLT DIMMABLE DRIVER ON LOW VOLTAGE DIMMER SWITCH WITH ROOM LIGHTING CONTROL, CONNECTED TO ROOM LIGHTING CIRCUIT LP-021-15. FIXTURES TO BE E65 LIGHTING PANEL SYSTEM.



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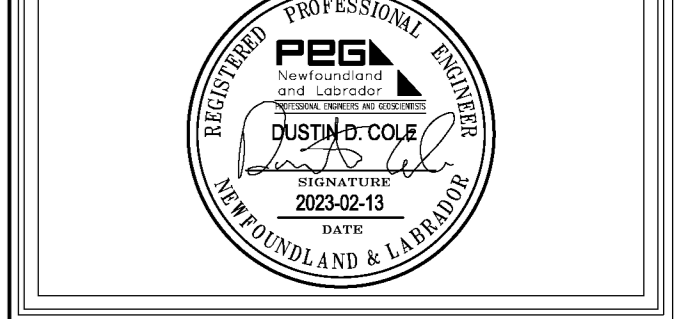
Architect Prime Consultant:  
**FOUGERE MENCHENTON ARCHITECTURE**

Discipline:  
**ELECTRICAL**  
 Sub-Consultant: Mechanical and Electrical

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Consultants Project No.  
**JBC-22-C-106**



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D	ISSUED FOR 80% REVIEW	2022-09-30
C	ISSUED FOR 30% REVIEW	2022-09-08
B	ISSUED FOR REVIEW	2022-08-19
A	ISSUED FOR 50% DD	2022-08-09

Drawing Nomenclature  
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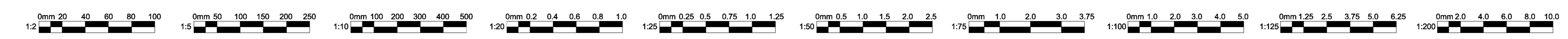
PROJECT TITLE  
**OFI FIT UP, PAV-A, LEVEL 5**

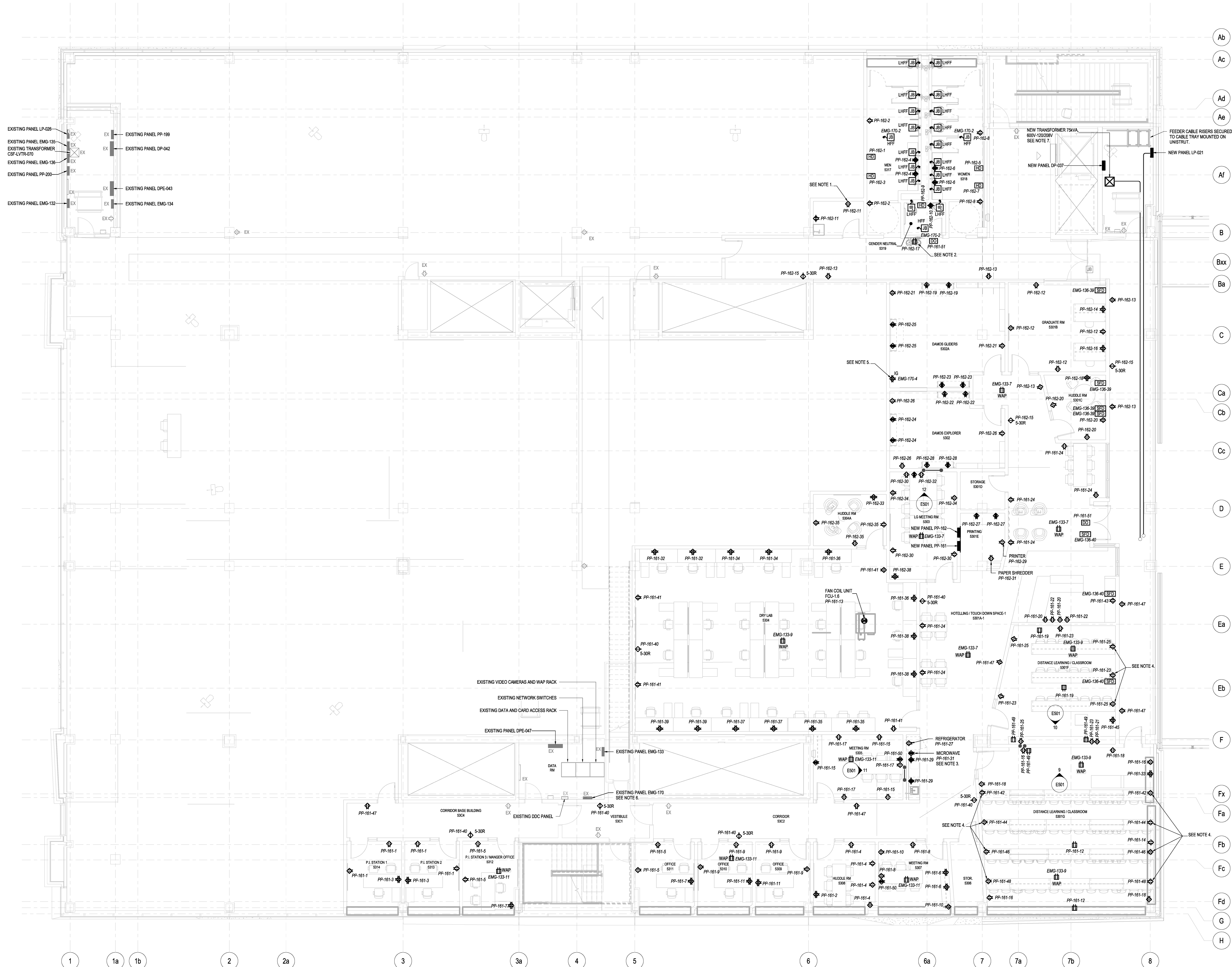
Client's Project No.: **CSF-001-21**

DRAWING TITLE  
**REVISED LIGHTING FLOOR PLAN - LEVEL 5, PAV-A**

SCALE: 1:75  
 DATE: 2023-02-13  
 REVISION NO.: 2  
**E301**  
 DRAWING NO.: 2100022-11439.PLM

**1** REVISED LIGHTING FLOOR PLAN - LEVEL 5 PAV-A  
 E301 1:75

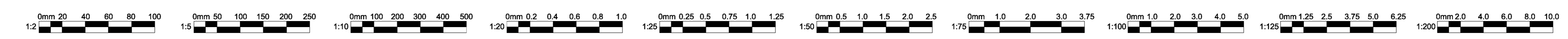




- NOTES:**
- THIS RECEPTACLE TO BE GFCI PROTECTED BY THE OTHER RECEPTACLE IN THE CUSTODIAN ROOM.
  - MOUNT RECEPTACLE ABOVE CEILING FOR REMOTE CHILLER AND FOUNTAIN. COORDINATE WITH MECHANICAL.
  - ELECTRICAL CONTRACTOR TO COORDINATE THE MOUNTING HEIGHT OF MICROWAVE WITH ARCHITECTURAL AND MILLWORK CONTRACTOR/SUPPLIER. INSTALL RECEPTACLE WITHIN THE BUILT-IN AREA ALLOTTED FOR MICROWAVE. EACH MICROWAVE TO BE CONNECTED TO DEDICATED CIRCUIT.
  - ELECTRICAL CONTRACTOR TO COORDINATE LOCATION AND MOUNTING HEIGHT OF RECEPTACLES ON SITE WITH GENERAL CONTRACTOR AND FURNITURE SUPPLIER PRIOR TO ROUGH-IN.
  - DOUBLE DUPLEX RECEPTACLE INTENDED FOR POWER FOR LOCAL SERVER RACK. COORDINATE EXACT LOCATION OF SERVER PRIOR TO ROUGH-IN.
  - REMOVE EXISTING SPARE 15A/1P BREAKER FROM PANEL EMG-170 ON CIRCUIT #4 AND REPLACE WITH ONE OF THE SPARE 20A/1P BREAKERS IN AN ADJACENT PANEL.
  - SUPPLY AND INSTALL CONCRETE HOUSEKEEPING PAD FOR NEW TRANSFORMER.

- EXISTING PANEL LP-026
- EXISTING PANEL EMG-135
- EXISTING TRANSFORMER CSF-LYTR-070
- EXISTING PANEL EMG-136
- EXISTING PANEL PP-200
- EXISTING PANEL PP-199
- EXISTING PANEL DP-042
- EXISTING PANEL DPE-043
- EXISTING PANEL EMG-134

**1 REVISED POWER FLOOR PLAN - LEVEL 5, PAV-A**  
E401 1:75



**Key Plan**

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Prepared For  
**MEMORIAL UNIVERSITY OF NEWFOUNDLAND**  
ST. JOHN'S, NEWFOUNDLAND

Architect Prime Consultant:  
**FOUGER MENCHENT ARCHITECTURE**

Discipline:  
**ELECTRICAL**

Sub-Consultant: Mechanical and Electrical  
**JBC JEWEL BAILEY CONSULTANTS**

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Drawn: E.D. Checked: D.C.  
Designed: E.D. Approved: D.C.

Consultants Project No.  
**JBC-22-C-106**

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**PEG**  
PROFESSIONAL ENGINEER  
NEWFOUNDLAND & LABRADOR  
2023-03-13

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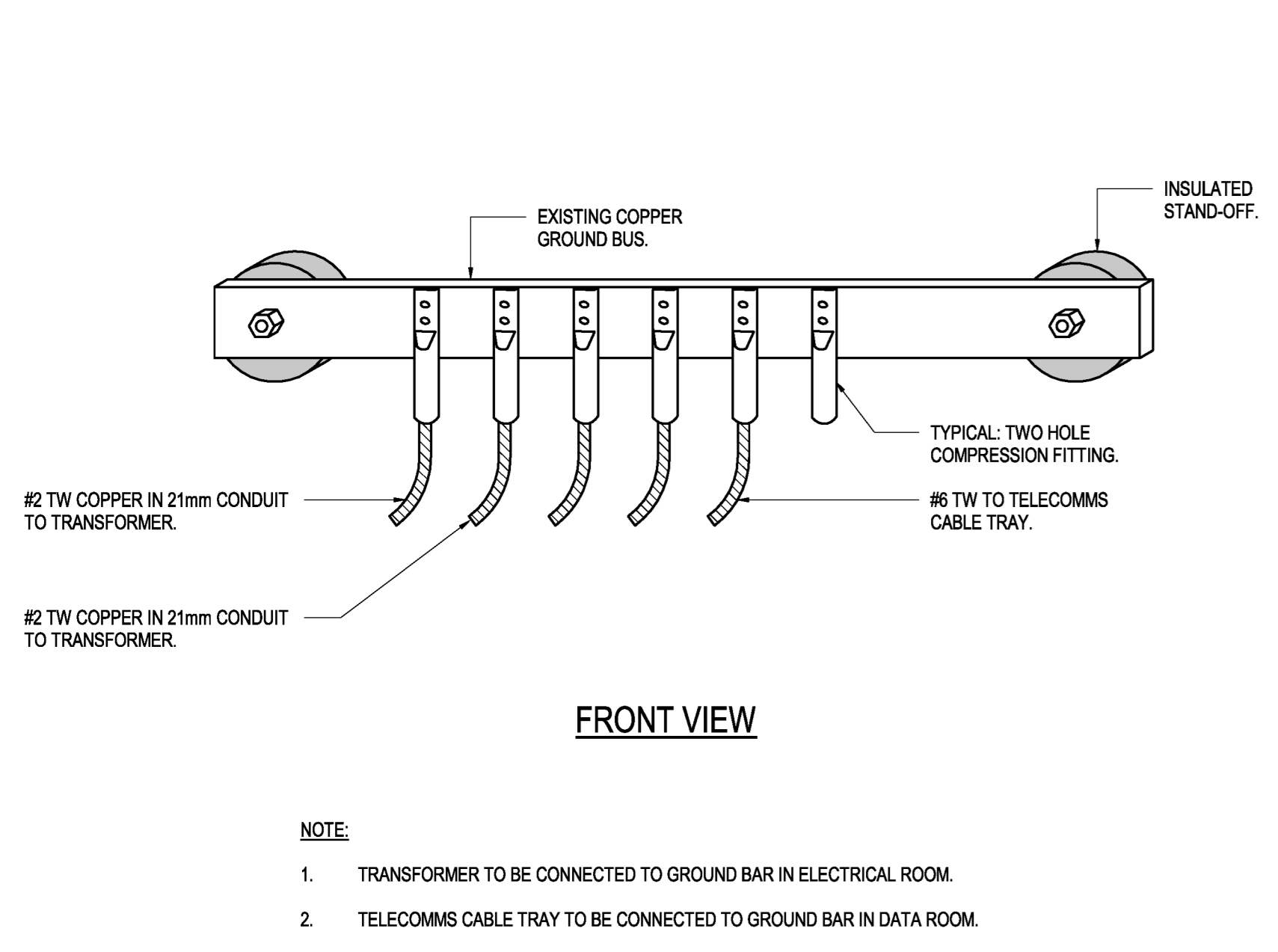
No.	Revisions	MM/DD/YY
3	ISSUED FOR CONSTRUCTION	2023-02-13
2	ISSUED FOR ADDENDUM #1	2022-12-16
1	ISSUED FOR ADDENDUM #2	2022-12-14
0	ISSUED FOR TENDER	2022-12-01
D	ISSUED FOR 80% REVIEW	2022-09-30
C	ISSUED FOR 30% REVIEW	2022-09-08
B	ISSUED FOR REVIEW	2022-08-19
A	ISSUED FOR 50% DD	2022-08-09

Drawing Nomenclature  
Detail/Section No. **3** / **A-1** ← Dwg. No. where detailed

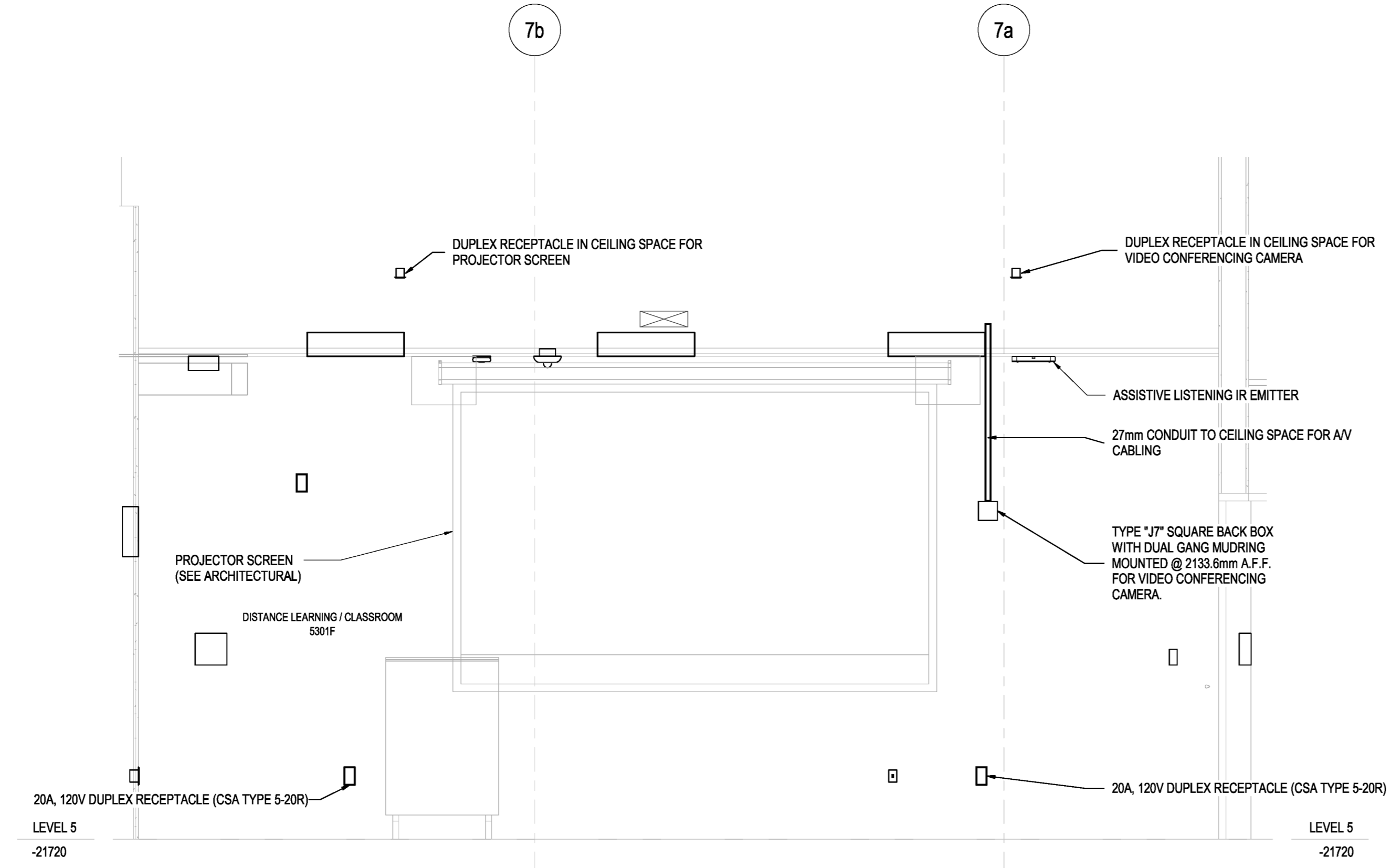
PROJECT TITLE  
**OFI FIT UP, PAV-A, LEVEL 5**

Client's Project No.: CSF-001-21  
DRAWING TITLE  
**REVISED POWER SYSTEMS FLOOR PLAN - LEVEL 5 PAV-A**

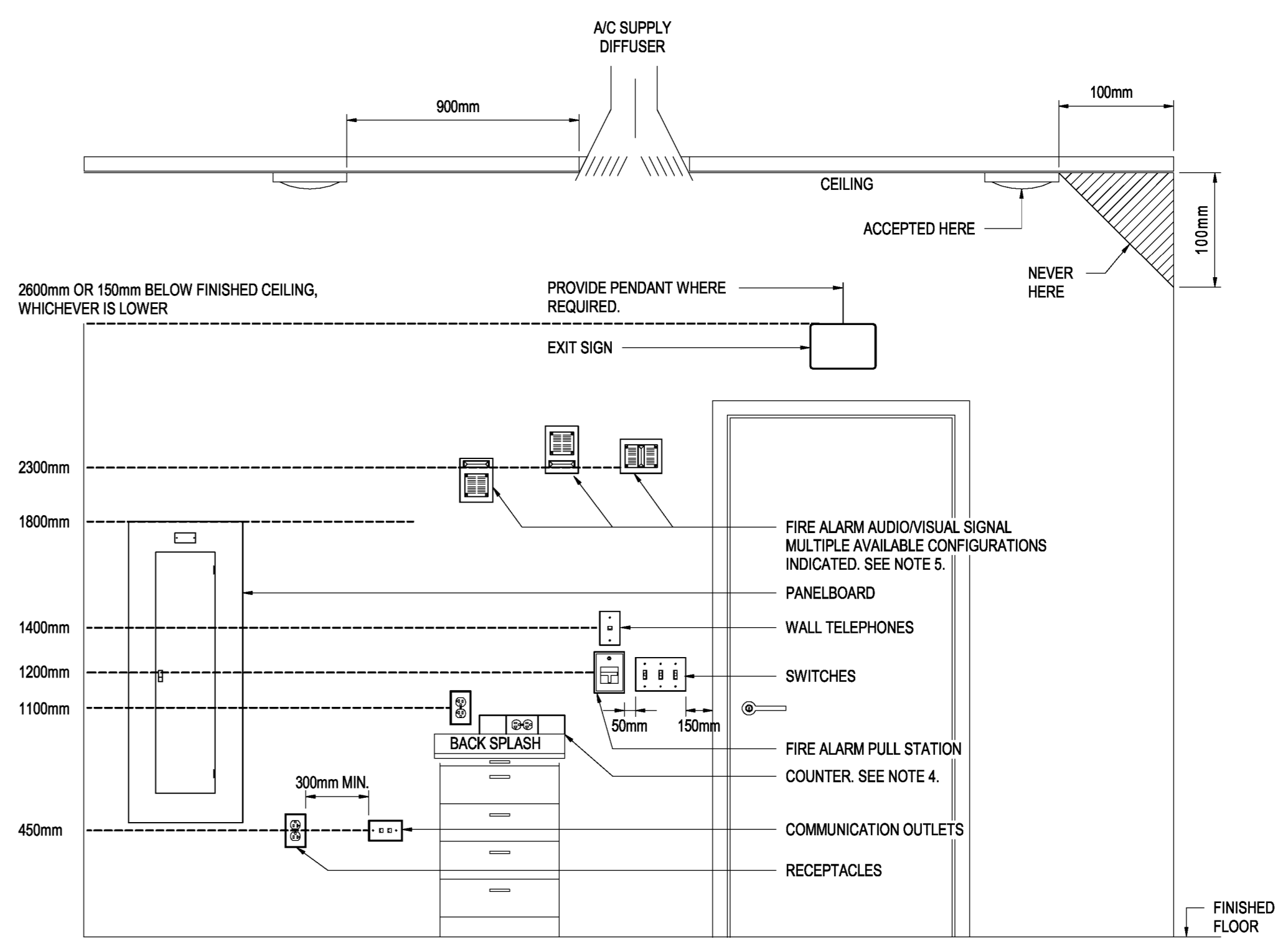
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REVISION NO.: 3  
**E401**  
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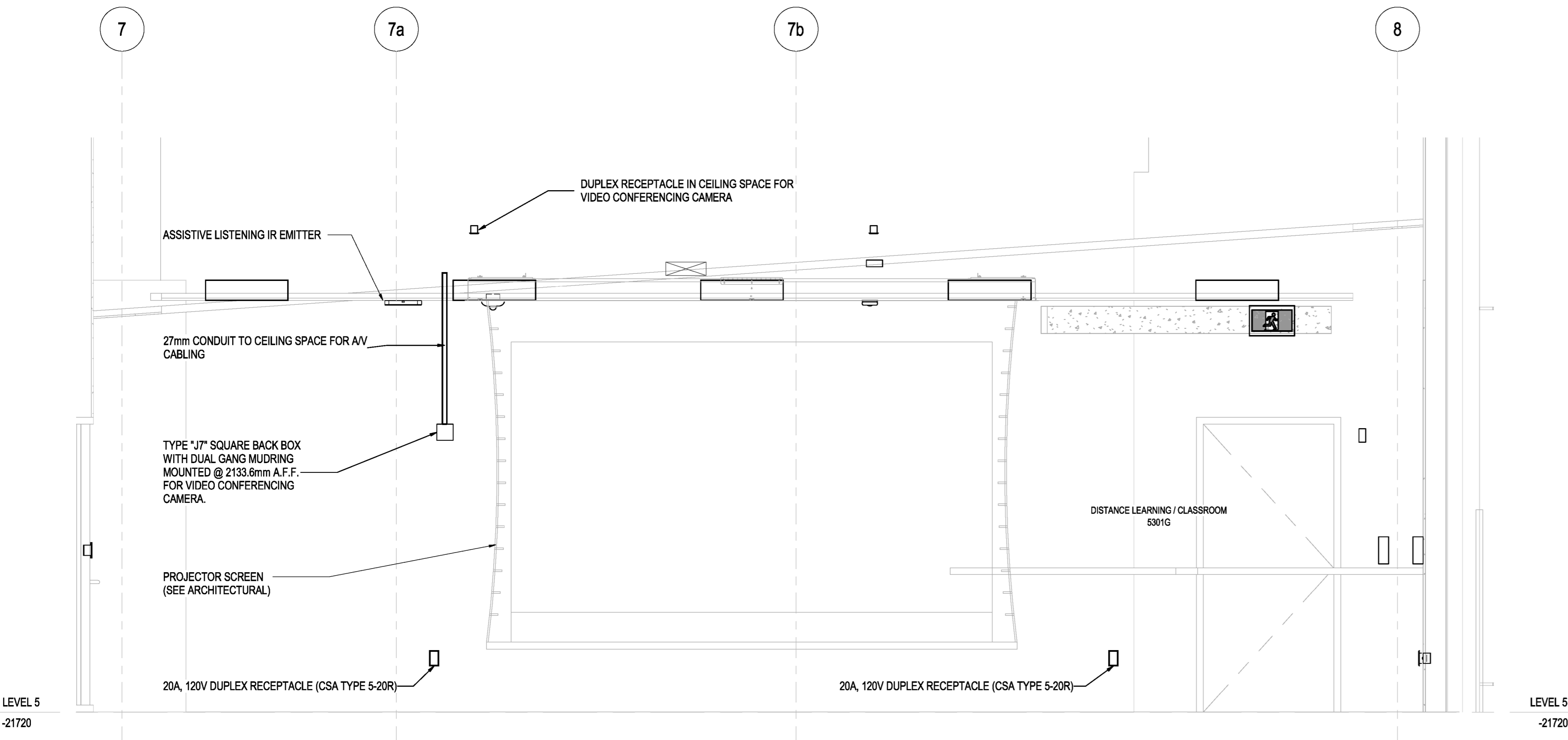
**8 GROUND BUS DETAIL**  
E501 N.T.S.



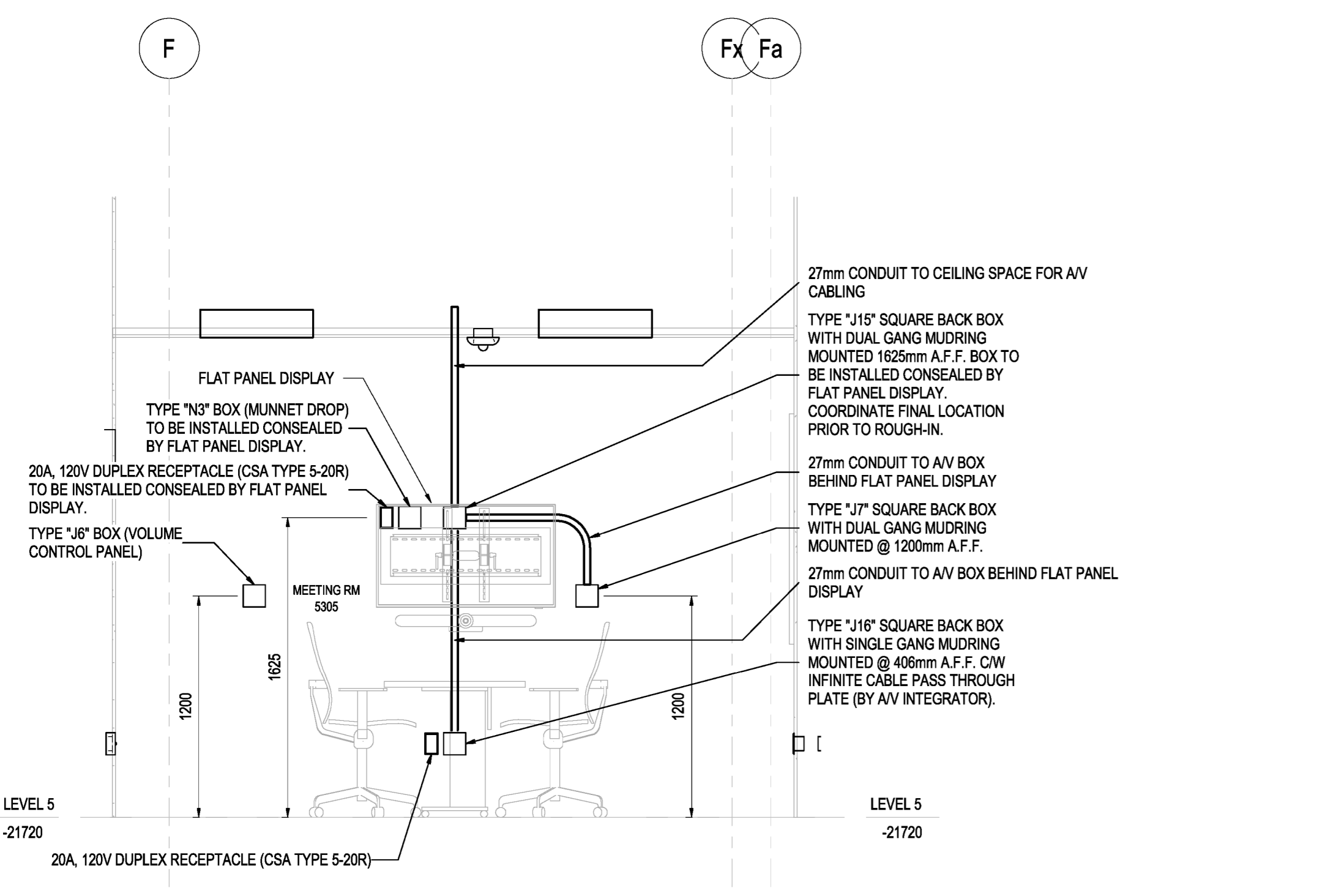
**1 TYPICAL DEVICE MOUNTING HEIGHTS DETAIL**  
E501 N.T.S.



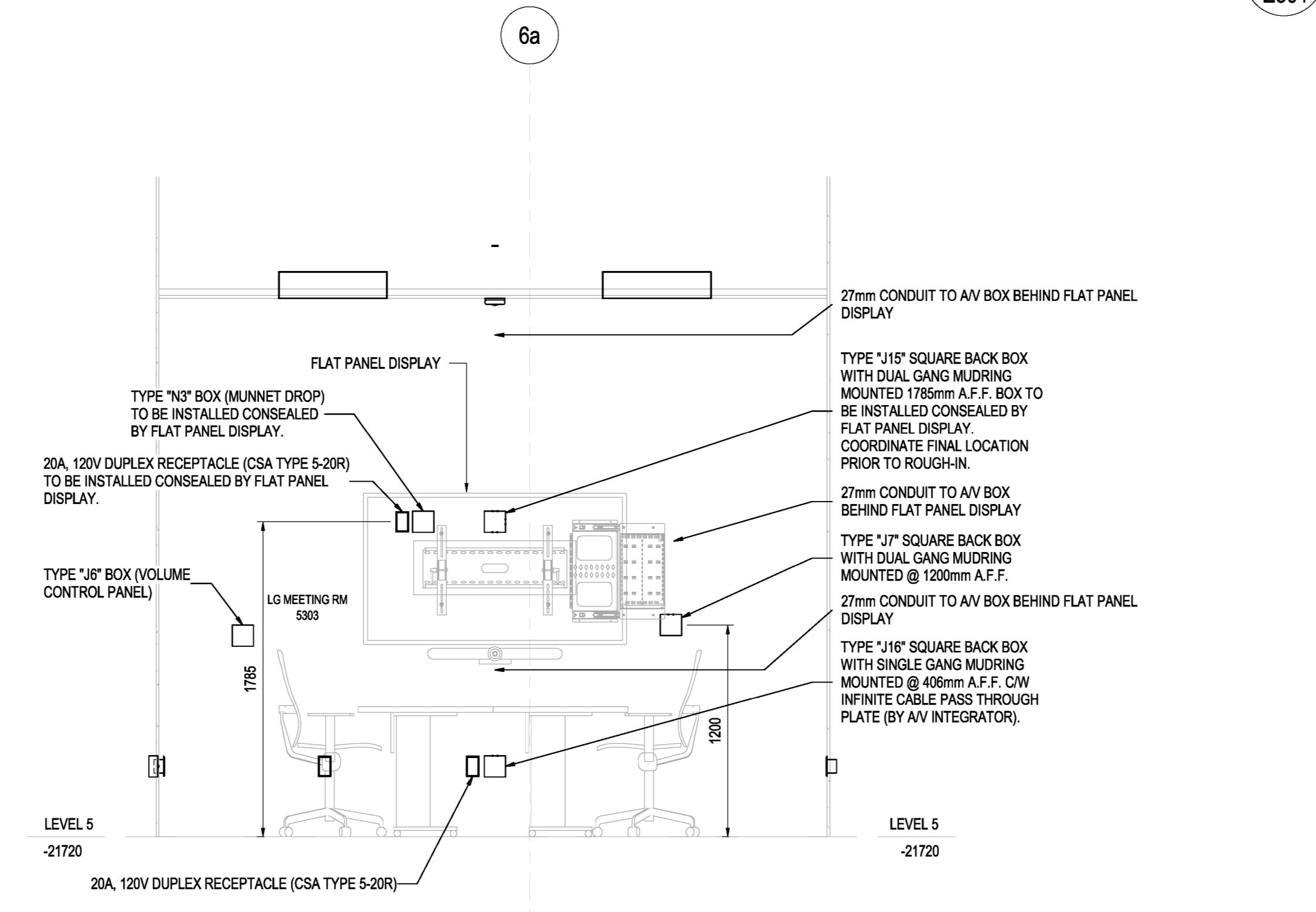
**10 SOUTH ELEVATION - DISTANCE LEARNING / CLASSROOM 5301F**  
E501 1:25



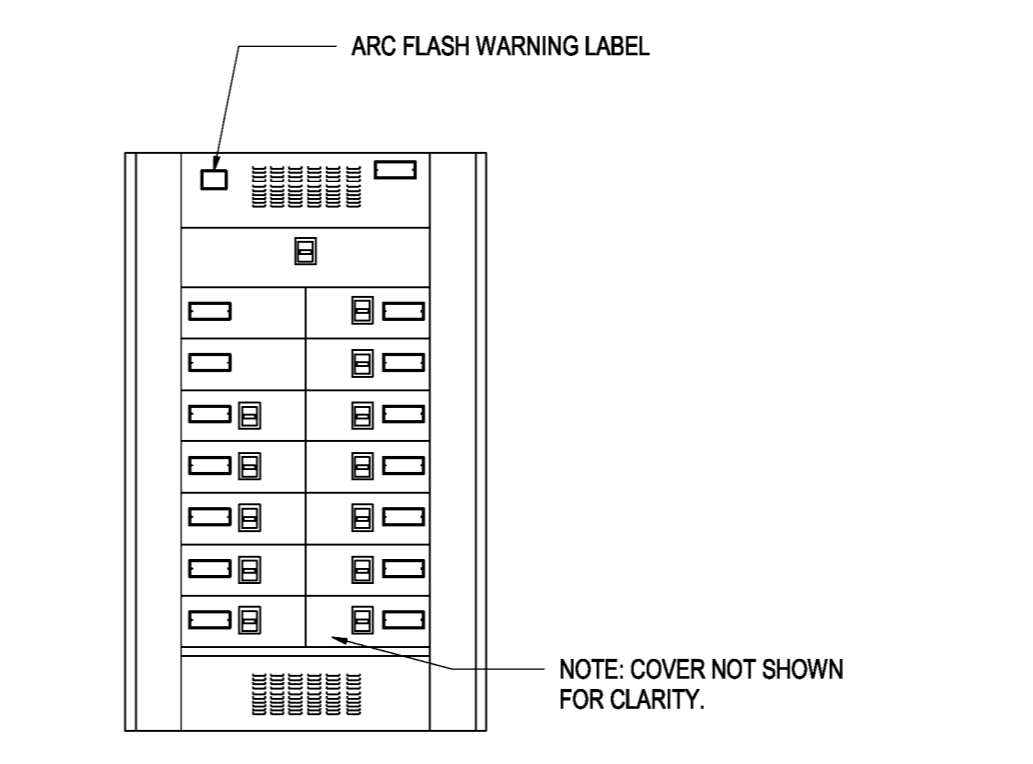
**9 NORTH ELEVATION - DISTANCE LEARNING / CLASSROOM 5301G**  
E501 1:25



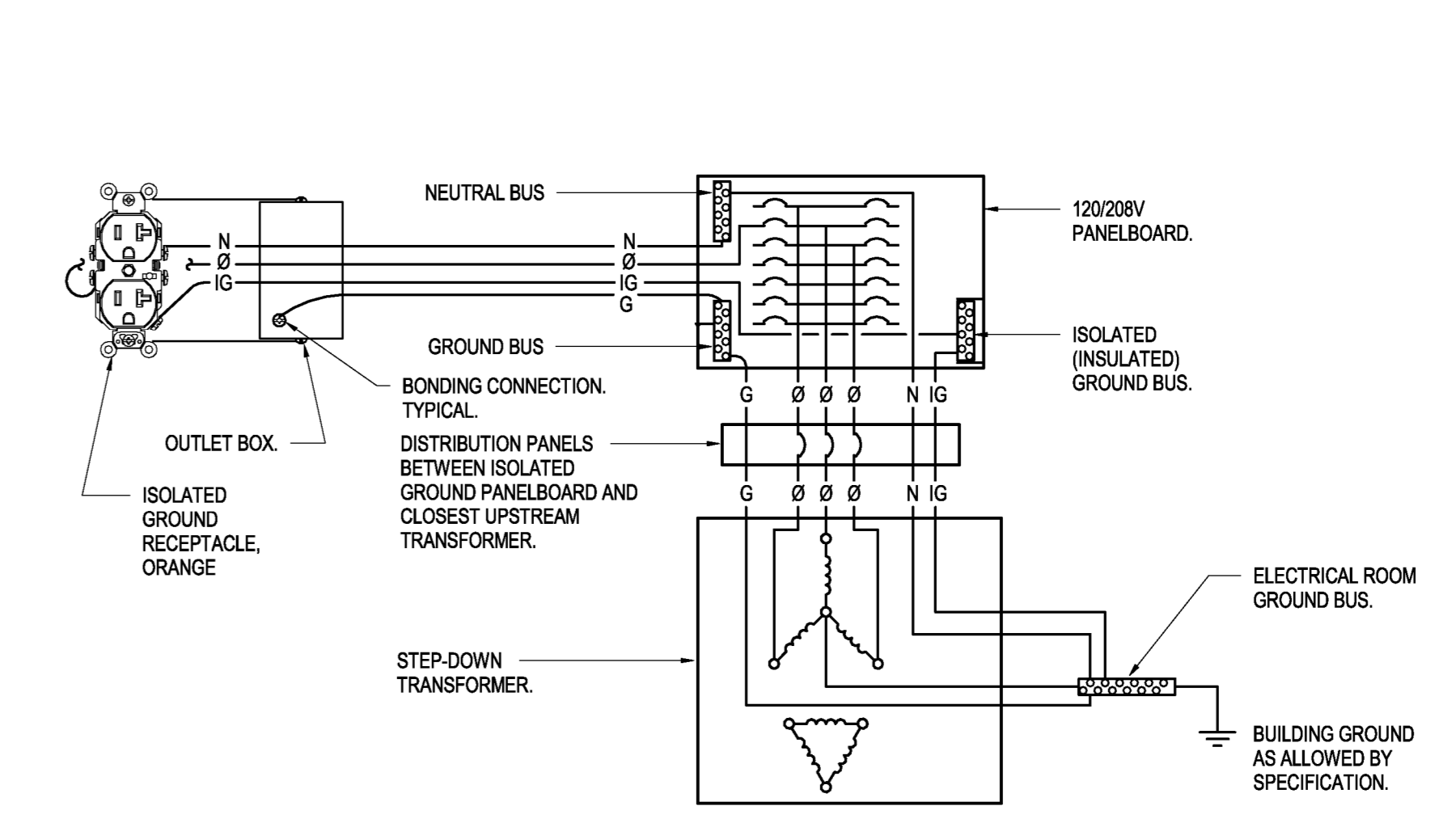
**11 EAST ELEVATION - MEETING ROOM 5305**  
E501 1:25



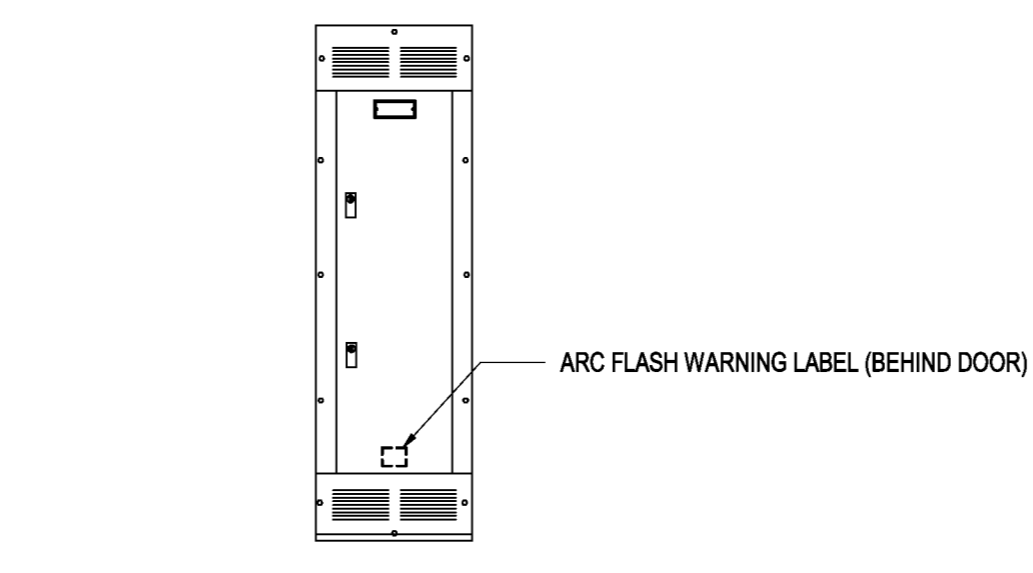
**12 NORTH ELEVATION - MEETING ROOM 5303**  
E501 1:25



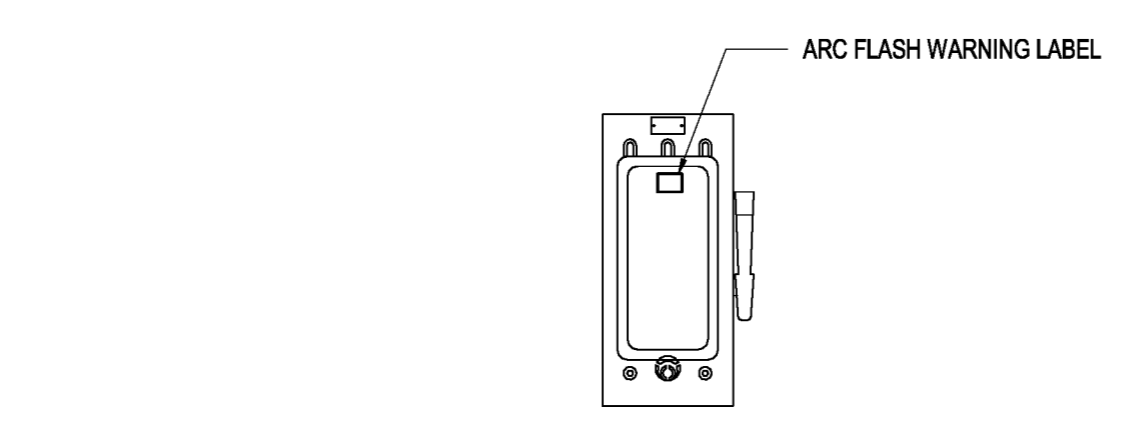
**2 DISTRIBUTION PANEL ELECTRICAL IDENTIFICATION**  
E501 N.T.S.



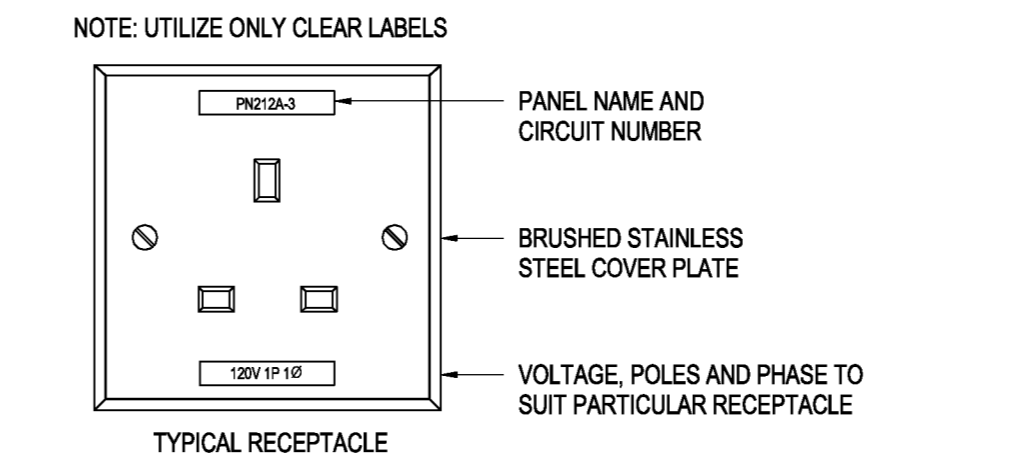
**6 ISOLATED GROUND DETAIL**  
E501 N.T.S.



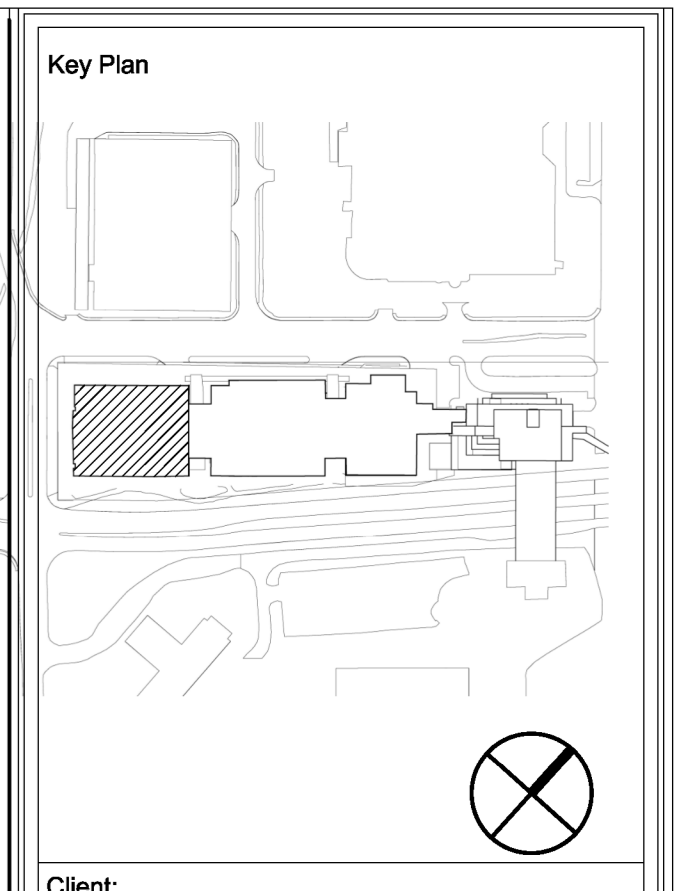
**3 PANEL ELECTRICAL IDENTIFICATION**  
E501 N.T.S.



**4 DISCONNECT SWITCH ELECTRICAL IDENTIFICATION**  
E501 N.T.S.



**5 TYPICAL DETAIL FOR LABELING SYSTEM ON DEVICE PLATES**  
E501 N.T.S.



Client:  
**MEMORIAL UNIVERSITY**  
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*This University was raised by the people of Newfoundland as a memorial to the fallen in the great war, 1914-1918. 1929-1945, that in freedom of learning, their cause and sacrifice might not be forgotten.*  
- Dedication plaque, Arts & Administration Building, St. John's Campus  
Prepared For  
**MEMORIAL UNIVERSITY OF NEWFOUNDLAND**  
ST. JOHN'S, NEWFOUNDLAND

Architect Prime Consultant:  
**FOUGERE MENCHENTON ARCHITECTURE**

Discipline:  
**ELECTRICAL**  
Sub-Consultant: Mechanical and Electrical  
**JBC JEWELLER BAILEY CONSULTANTS**

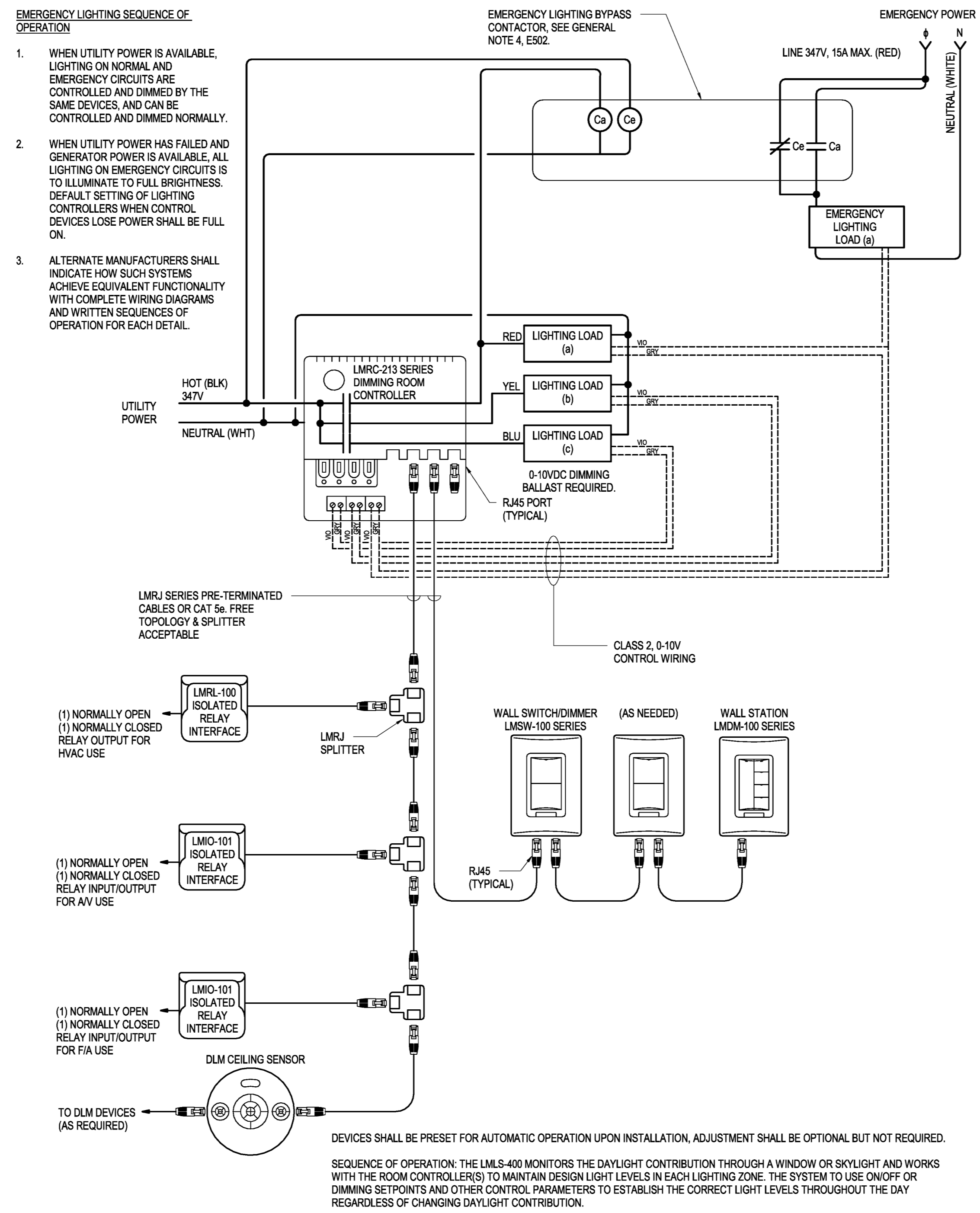
PROVINCE OF NEWFOUNDLAND AND LABRADOR  
PERMIT HOLDER  
This Permit Allows  
**JBC JEWELLER BAILEY CONSULTANTS LTD.**  
M.B.C.  
To practice Professional Engineering in Newfoundland and Labrador  
Permit No. as issued by PEG 00540 which is valid for the year 2023.

Drawn: E.D. Checked: D.C.  
Designed: E.D. Approved: D.C.  
Consultants Project No.  
**JBC-22-C-106**  
Professional Stamp & Permit  
**PEEG**  
Professional Engineer  
Newfoundland & Labrador  
2023-02-13

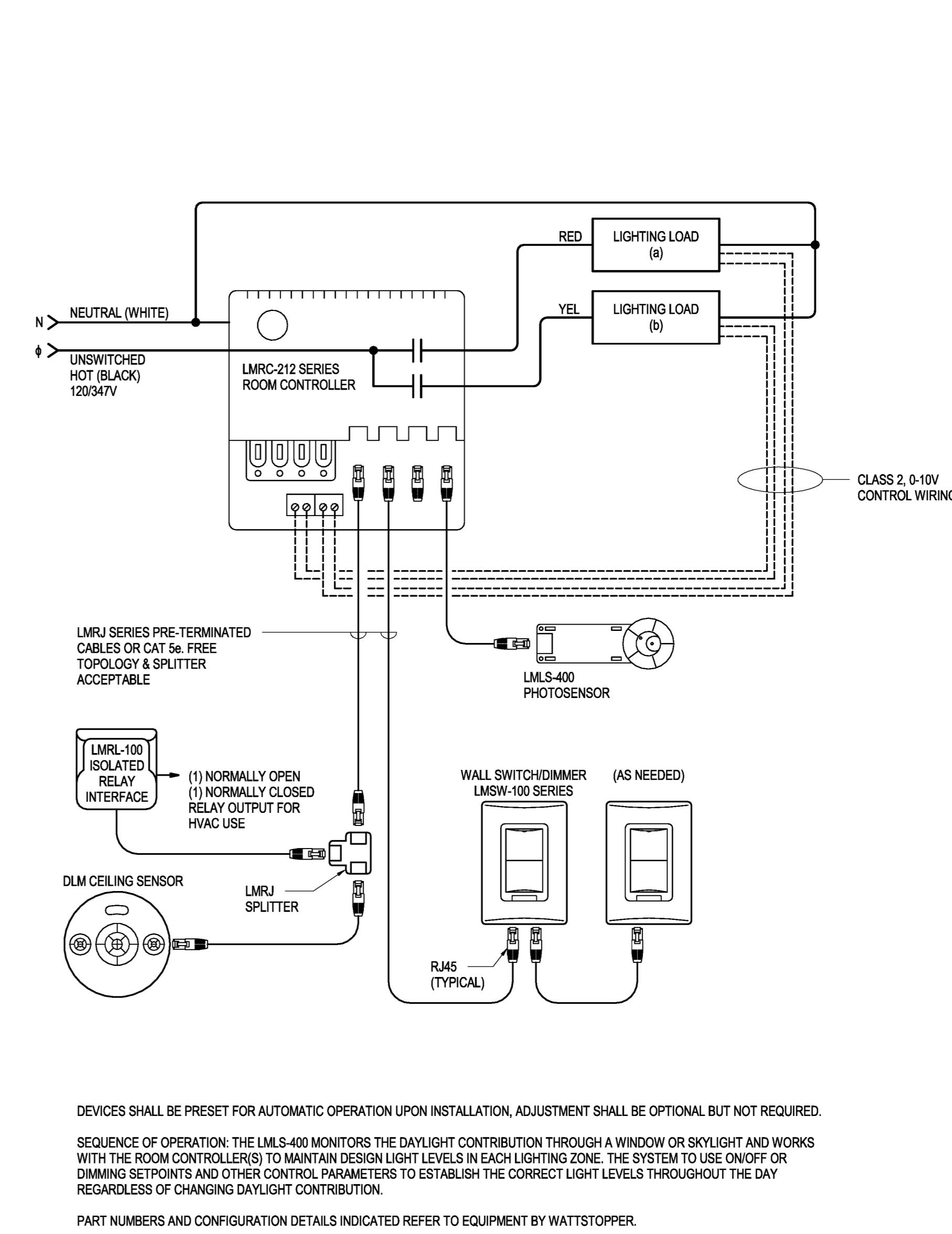
Notes:  
1. DO NOT SCALE FROM THIS DRAWING.  
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3. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS ON SITE PRIOR TO PROCEEDING WITH ANY PORTION OF THIS WORK.  
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B	ISSUED FOR REVIEW	2022-08-19
A	ISSUED FOR 50% DD	2022-08-09
No.	Revisions	MMDDYY

Drawing Nomenclature  
Detail/Section No. **3** ← Dwg. No. where detailed  
**A-1**  
PROJECT TITLE  
**OFI FIT UP, PAV-A, LEVEL 5**  
Client's Project No.: CSF-001-21  
DRAWING TITLE  
**ELECTRICAL DETAILS**  
SCALE: As Shown  
DRAWING NO.:  
DATE: 2023-02-13  
REVISION NO.:  
**E501**  
2 2/10/2023 4:14:09 PM



**1 TYPE "H" - DLM SYSTEM ROOM CONTROLLER, DAYLIGHT DIMMING, LOCAL SCENE SELECTION AND DIMMING CONTROLS**  
E502 N.T.S.

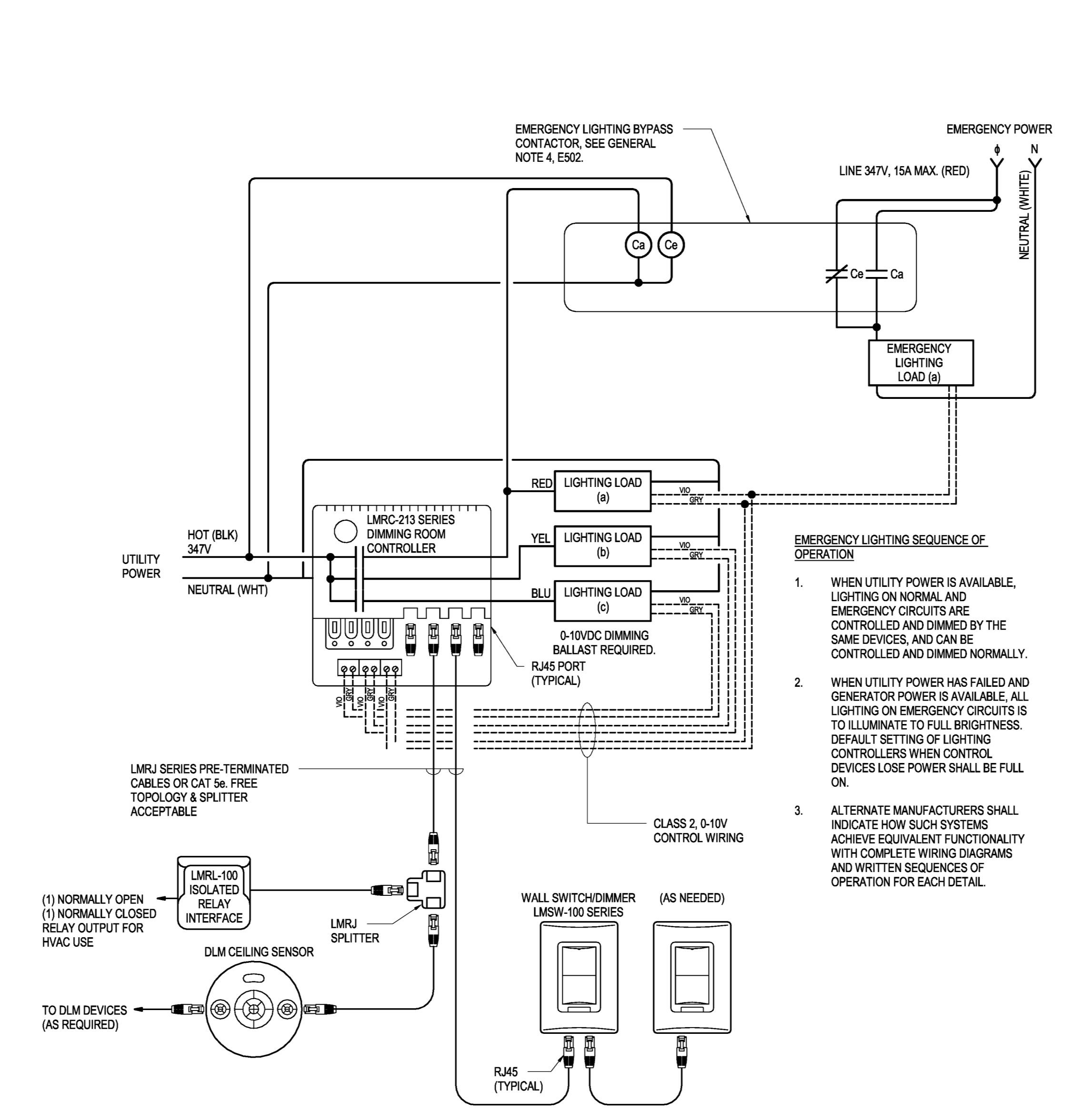


DEVICES SHALL BE PRESET FOR AUTOMATIC OPERATION UPON INSTALLATION, ADJUSTMENT SHALL BE OPTIONAL BUT NOT REQUIRED.

SEQUENCE OF OPERATION: THE LMS-400 MONITORS THE DAYLIGHT CONTRIBUTION THROUGH A WINDOW OR SKYLIGHT AND WORKS WITH THE ROOM CONTROLLER(S) TO MAINTAIN DESIGN LIGHT LEVELS IN EACH LIGHTING ZONE. THE SYSTEM TO USE ON/OFF OR DIMMING SETPOINTS AND OTHER CONTROL PARAMETERS TO ESTABLISH THE CORRECT LIGHT LEVELS THROUGHOUT THE DAY REGARDLESS OF CHANGING DAYLIGHT CONTRIBUTION.

PART NUMBERS AND CONFIGURATION DETAILS INDICATED REFER TO EQUIPMENT BY WATTSTOPPER.

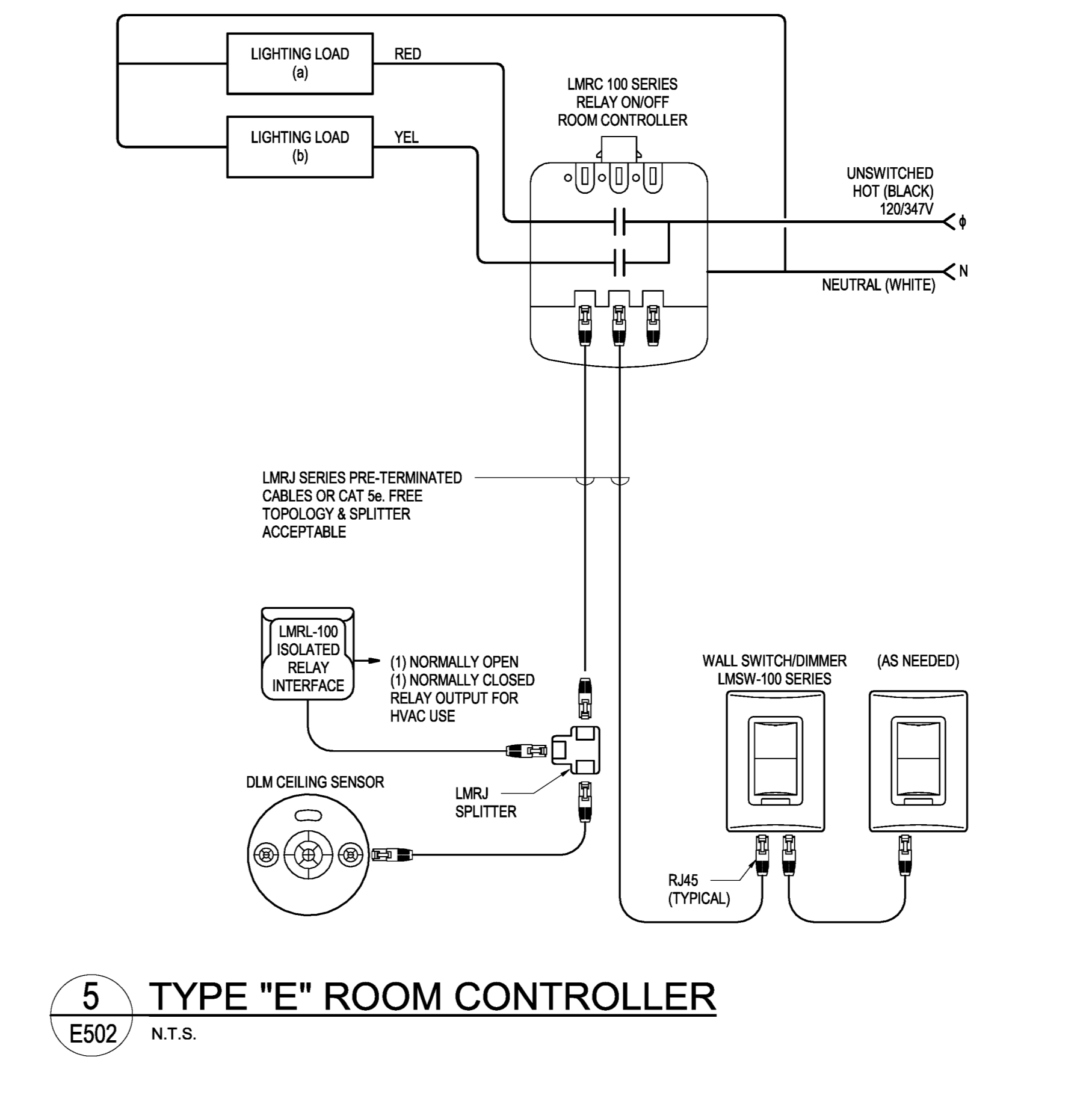
**2 TYPE "D" ROOM CONTROLLER WITH DAYLIGHT DIMMING**  
E502 N.T.S.



DEVICES SHALL BE PRESET FOR AUTOMATIC OPERATION UPON INSTALLATION, ADJUSTMENT SHALL BE OPTIONAL BUT NOT REQUIRED.

SEQUENCE OF OPERATION: OVERHEAD LIGHTS ARE MANUALLY TURNED ON BY DIMMER AND SHUT OFF WITH A OCCUPANCE SENSOR. ON LIGHTS ARE TURNED ON MANUALLY. ADJUST LIGHTS ARE MANUALLY ADJUSTED VIA A LOCAL DIMMER SWITCH. OFF: AFTER THE SPACE HAS BEEN VACANT FOR 30 MINUTES, THE LIGHTS WILL AUTOMATICALLY TURN OFF.

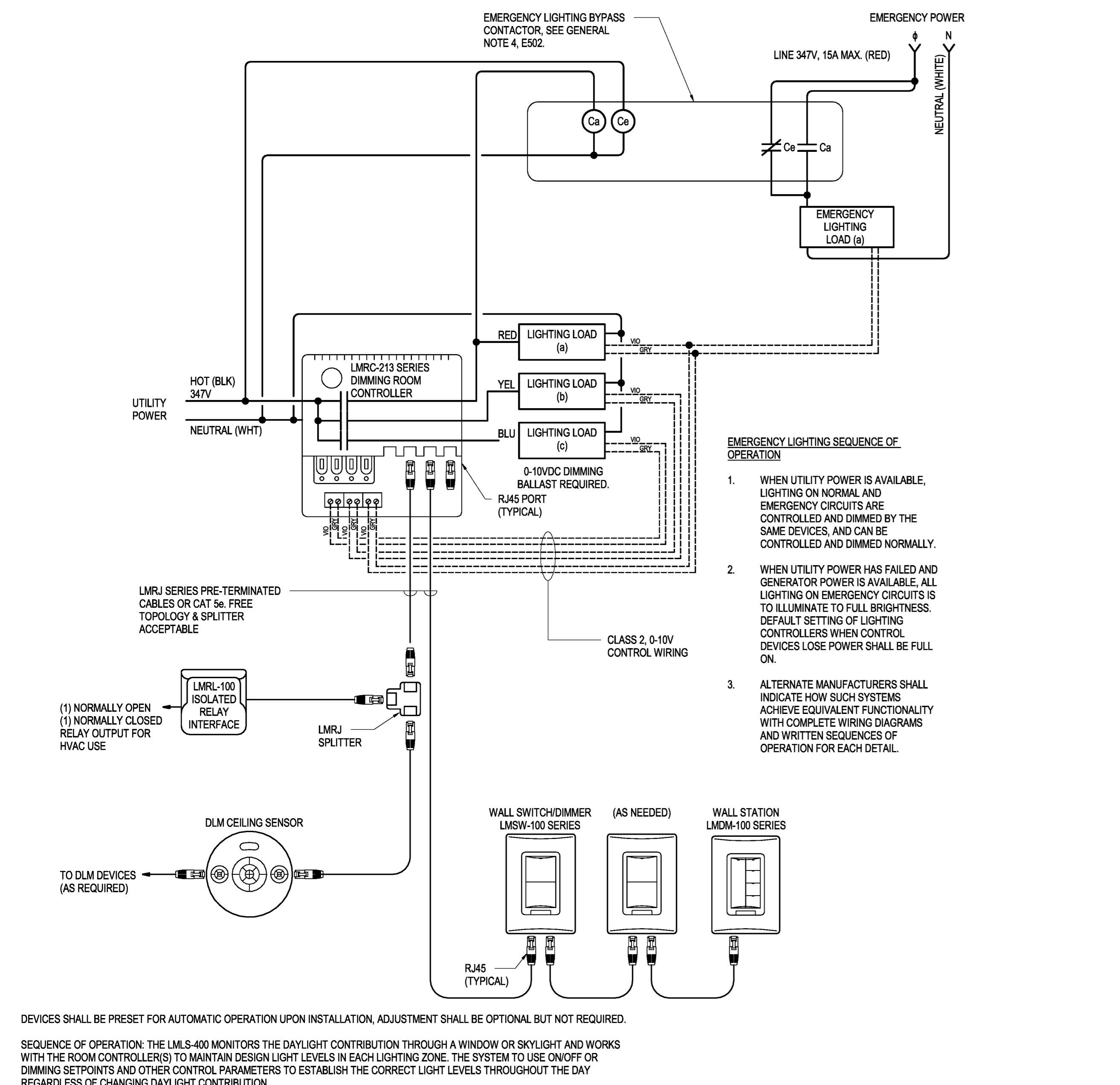
**4 TYPE "I" DLM SYSTEM ROOM CONTROLLER, VACANCY SENSING AND DIMMING CONTROLS**  
E502 N.T.S.



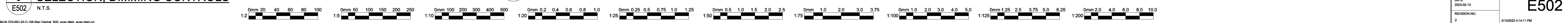
GENERAL NOTES FOR E502/E503:

- POWER PACKS FOR LIGHTING LOADS, CONTACTORS NETWORK BRIDGES AND RELAYS ARE NOT INDICATED ON THE LAYOUTS. QUANTITIES AND LOCATIONS OF LIGHTING CONTROL POWER PACKS, CONTACTORS, NETWORK BRIDGES AND RELAYS TO BE DETERMINED BY CONTRACTOR AS REQUIRED TO ACHIEVE INDICATED SWITCHING ARRANGEMENT FOR THE QUANTITIES OF LIGHTING FIXTURES INDICATED ON THE LAYOUTS. RECORD LOCATIONS OF ALL DEVICES ON AS-BUILT DRAWINGS.
- NOT USED.
- LIGHTING POWER PACKS: MINIMUM OF 1 PER ROOM, MORE AS REQUIRED TO ACHIEVE LIGHTING AND EMERGENCY LIGHTING LOADS AS REQUIRED.
- EMERGENCY LIGHTING POWER AND CONTROL CONTACTORS SHALL BE CSA TYPE 1 ENCLOSURE, 347 VOLT CONTROL COIL, 347 VOLT CONTACTS AS SHOWN. MOUNT IN CEILING SPACE OF AREA CONTROLLED. LOCATION TO BE ACCESSIBLE AND MAXIMUM 300mm ABOVE CEILING. CONTACTS LABELLED 'C' SHALL BE LOCATED IN BARRIRED COMPARTMENT, SEPARATE FROM OTHER CONTACTS. CONTACTOR PANEL SHALL BE MANUFACTURED BY A CSA APPROVED SHOP AND SHALL BE SUITABLE FOR REGULAR, FREQUENT OPERATION FOR THE CONTROL OF LIGHTING FIXTURES. MANUFACTURED LIGHTING BYPASS RELAYS SHALL BE PERMITTED AS A SUBSTITUTE SO LONG AS THEY ARE CSA OR cUL APPROVED FOR 347V OPERATION, AND PROVIDE THE SAME FUNCTIONALITY SHOWN HERE. ALL EMERGENCY LIGHTING POWER AND CONTROL CONTACTORS OR RELAYS ARE TO BE COMPLETE WITH PUSH-TO-TEST BUTTONS AND LED PLOT LIGHTS INDICATING WHETHER POWER IS SUPPLIED FROM NORMAL, EMERGENCY, OR IN TEST MODE. LOCATIONS OF CONTACTORS AND RELAYS TO BE RECORDED ON AS-BUILT DRAWINGS.
- QUANTITIES OF PHOTOCELLS, OCCUPANCY/VACANCY SENSORS, AND MANUAL LIGHTING CONTROL DEVICES ON THESE DETAILS IS NOT INDICATIVE OF ACTUAL NUMBER OF DEVICES CONNECTED TO EACH ROOM CONTROLLER. FOR EXACT QUANTITY OF SUCH DEVICES, REFER TO THE LIGHTING FLOOR PLANS.
- LIGHTING CONTROL SYSTEMS WITH AN OUTPUT RELAYS SHALL BE TIED IN TO COMMUNICATE WITH AND SHALL BE CAPABLE OF BEING CONTROLLED BY THE ASSOCIATED AVY PANELS IN SUCH ROOMS. CONTRACTOR TO COORDINATE WITH AVY CONTRACT DOCUMENTS FOR LOCATIONS OF ALL AVY PANELS.

**5 TYPE "E" ROOM CONTROLLER**  
E502 N.T.S.



**3 TYPE "J" DLM SYSTEM ROOM CONTROLLER, LOCAL SCENE SELECTION, DIMMING CONTROLS**  
E502 N.T.S.



Key Plan

Client:

**MEMORIAL UNIVERSITY**  
Department of Facilities Management  
This University was raised by the people of Newfoundland as a memorial to the fallen in the great wars, 1914-1918, 1939-1945, that in freedom of learning, their cause and sacrifice might not be forgotten.  
- Dedication plaque, Arts & Administration Building, St. John's Campus

Prepared For  
**MEMORIAL UNIVERSITY OF NEWFOUNDLAND**  
ST. JOHN'S, NEWFOUNDLAND

Architect Prime Consultant:  
**FOUGERE MENCHENTON ARCHITECTURE**

Discipline:  
**ELECTRICAL**

Sub-Consultant: Mechanical and Electrical

**JBC** JEWELL BAILEY CONSULTANTS LTD.  
CONSULTANTS

PROVINCE OF NEWFOUNDLAND AND LABRADOR  
PERMIT HOLDER  
This Permit Allows  
MEMORIAL UNIVERSITY OF NEWFOUNDLAND  
JEWELL BAILEY CONSULTANTS LTD. L.L.C.  
MEMORIAL UNIVERSITY OF NEWFOUNDLAND  
Permit No. as issued by PEG 00540 which is valid for the year 2023.

Drawn: E.D. Checked: D.C.  
Designed: E.D. Approved: D.C.  
Consultants Project No.  
**JBC-22-C-106**  
Professional Stamp & Permit  
**PEG**  
PROFESSIONAL ENGINEER  
MEMORIAL UNIVERSITY OF NEWFOUNDLAND & LABRADOR

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B	ISSUED FOR REVIEW	2022-08-19
A	ISSUED FOR 50% DD	2022-08-09
No.	Revisions	MM/DD/YY

Drawing Nomenclature  
Detail/Section No. **3** / **A-1** / where detailed  
Dwg. No.

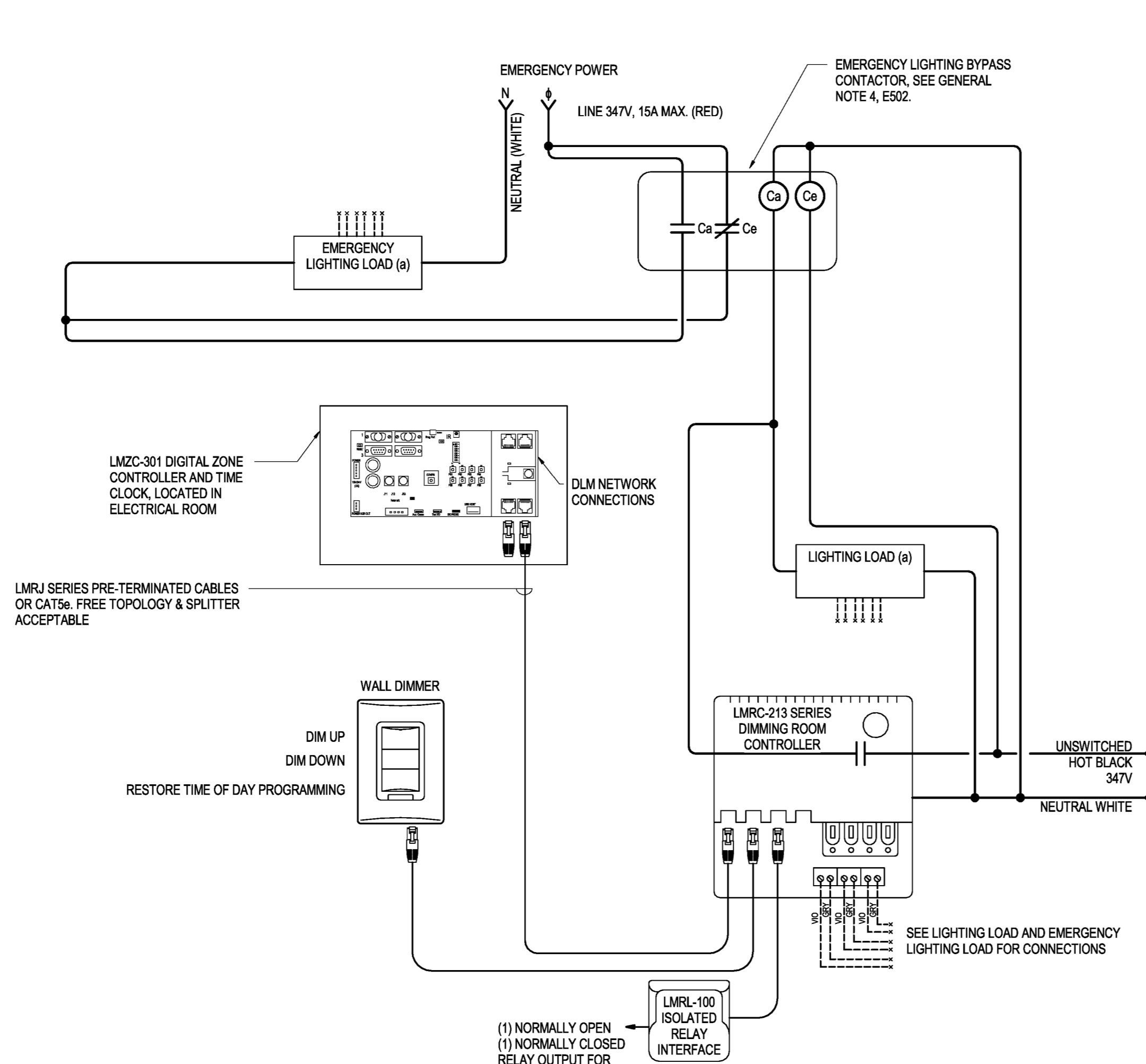
PROJECT TITLE  
**OFI FIT UP, PAV-A, LEVEL 5**

Client's Project No.: CSF-001-21  
DRAWING TITLE  
**ELECTRICAL DETAILS**

SCALE: N.T.S. DRAWING NO.: **E502**  
DATE: 2023-02-13  
REVISION NO.: 2 2/10/2023 4:11 PM

**EMERGENCY LIGHTING SEQUENCE OF OPERATION**

1. WHEN UTILITY POWER IS AVAILABLE, LIGHTING ON NORMAL AND EMERGENCY CIRCUITS ARE CONTROLLED AND DIMMED BY THE SAME DEVICES, AND CAN BE CONTROLLED AND DIMMED NORMALLY.
2. WHEN UTILITY POWER HAS FAILED AND GENERATOR POWER IS AVAILABLE, ALL LIGHTING ON EMERGENCY CIRCUITS IS TO ILLUMINATE TO FULL BRIGHTNESS.
3. ALTERNATE MANUFACTURERS SHALL INDICATE HOW SUCH SYSTEMS ACHIEVE EQUIVALENT FUNCTIONALITY WITH COMPLETE WIRING DIAGRAMS AND WRITTEN SEQUENCES OF OPERATION FOR EACH DETAIL.
4. CONTACTOR DETAILS:
  - A. C<sub>1</sub> - NORMALLY OPEN, FOLLOWS SWITCHED SENSE OF NORMAL POWER LIGHTING LEG "N".
  - B. C<sub>2</sub> - NORMALLY CLOSED, HELD OPEN ELECTRICALLY BY UNSWITCHED NORMAL POWER CIRCUIT. CLOSURES UPON FAILURE OF NORMAL POWER.



FOR TYPE "M" LIGHTING CONTROL, TIME OF DAY PROGRAMMING TO WORK AS FOLLOWS:

- 7AM LIGHTING TURNS ON TO LOWEST SETTING
- 7AM TO 10AM LIGHTING DIMS UP FROM LOWEST SETTING TO 100% GRADUALLY AND EVENLY
- 8PM TO 8PM LIGHTING DIMS DOWN FROM 100% TO LOWEST SETTING GRADUALLY AND EVENLY
- 8PM LIGHTING TURNS OFF

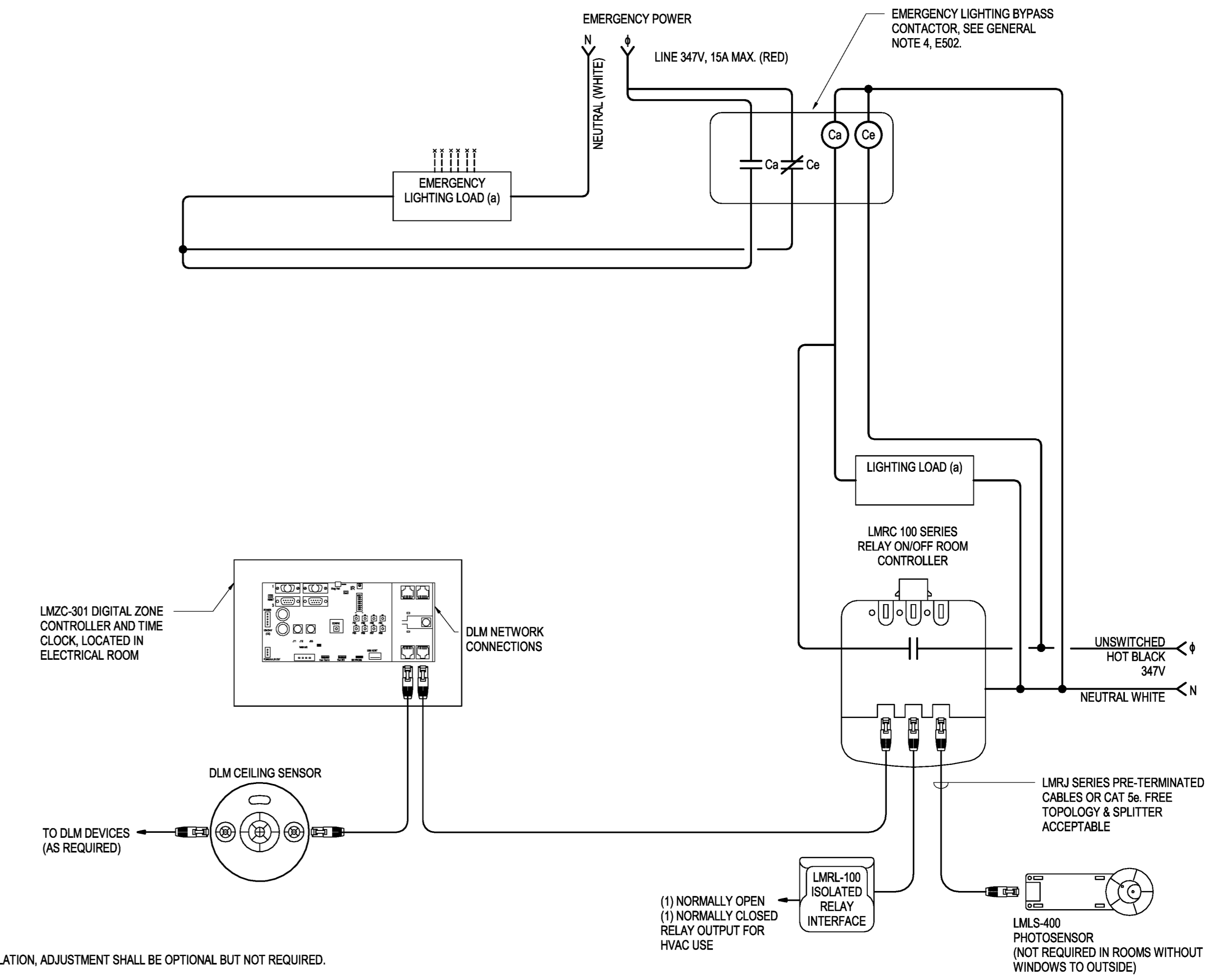
**1 TYPE "M" DLM SYSTEM CONTROL**  
E503 N.T.S.

**EMERGENCY LIGHTING SEQUENCE OF OPERATION**

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2. WHEN UTILITY POWER HAS FAILED AND GENERATOR POWER IS AVAILABLE, ALL LIGHTING ON EMERGENCY CIRCUITS IS TO ILLUMINATE TO FULL BRIGHTNESS.
3. ALTERNATE MANUFACTURERS SHALL INDICATE HOW SUCH SYSTEMS ACHIEVE EQUIVALENT FUNCTIONALITY WITH COMPLETE WIRING DIAGRAMS AND WRITTEN SEQUENCES OF OPERATION FOR EACH DETAIL.
4. CONTACTOR DETAILS:
  - A. C<sub>1</sub> - NORMALLY OPEN, FOLLOWS SWITCHED SENSE OF NORMAL POWER LIGHTING LEG "N".
  - B. C<sub>2</sub> - NORMALLY CLOSED, HELD OPEN ELECTRICALLY BY UNSWITCHED NORMAL POWER CIRCUIT. CLOSURES UPON FAILURE OF NORMAL POWER.

**WIRING AND OPERATION:**

1. DETAIL HERE SHOWS ONE SWITCHED LEG, CONSISTING OF ONE ROOM CONTROLLER AND ONE EMERGENCY LIGHTING BYPASS CONTACTOR. FOR CORRIDORS WITH MULTIPLE SWITCHED LEGS, EACH ADDITIONAL LEG SHALL HAVE A DEDICATED ROOM CONTROLLER, EMERGENCY BYPASS CONTACTOR, INTERFACE RELAY, AND PHOTOCELL (WHERE APPROPRIATE).



DEVICES SHALL BE PRESET FOR AUTOMATIC OPERATION UPON INSTALLATION, ADJUSTMENT SHALL BE OPTIONAL BUT NOT REQUIRED.

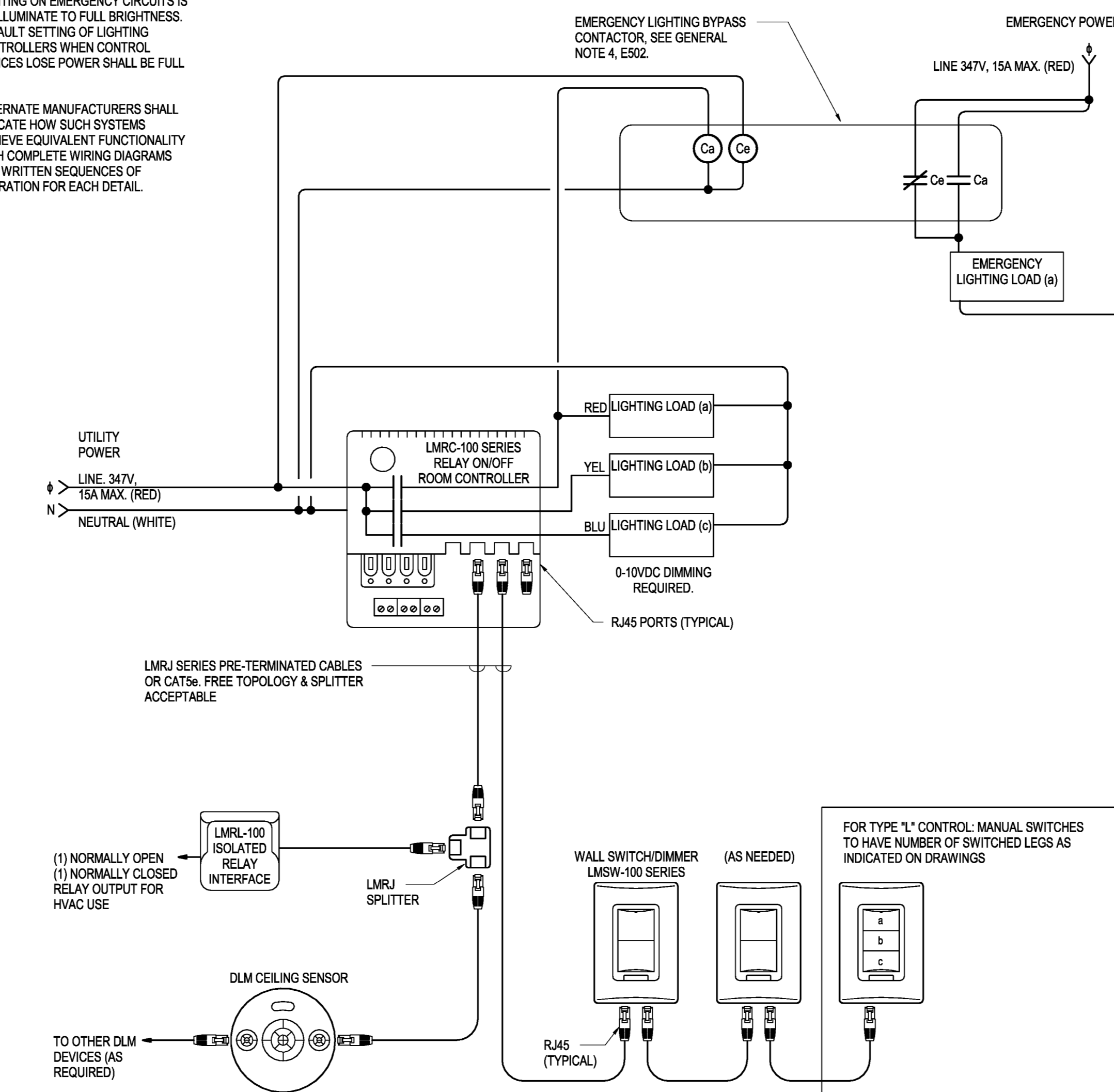
SEQUENCE OF OPERATION: THE LMS-400 MONITORS THE DAYLIGHT CONTRIBUTION THROUGH A WINDOW OR SKYLIGHT AND WORKS WITH THE ROOM CONTROLLER(S) TO MAINTAIN DESIGN LIGHT LEVELS IN EACH LIGHTING ZONE. THE SYSTEM TO USE ON/OFF OR DIMMING SETPOINTS AND OTHER CONTROL PARAMETERS TO ESTABLISH THE CORRECT LIGHT LEVELS THROUGHOUT THE DAY REGARDLESS OF CHANGING DAYLIGHT CONTRIBUTION.

PART NUMBERS AND CONFIGURATION DETAILS INDICATED REFER TO EQUIPMENT BY WATTS/OPPER.

**2 TYPE "C" DLM SYSTEM RELAY CONTROL PANEL**  
E503 N.T.S.

**EMERGENCY LIGHTING SEQUENCE OF OPERATION**

1. WHEN UTILITY POWER IS AVAILABLE, LIGHTING ON NORMAL AND EMERGENCY CIRCUITS ARE CONTROLLED AND DIMMED BY THE SAME DEVICES, AND CAN BE CONTROLLED AND DIMMED NORMALLY.
2. WHEN UTILITY POWER HAS FAILED AND GENERATOR POWER IS AVAILABLE, ALL LIGHTING ON EMERGENCY CIRCUITS IS TO ILLUMINATE TO FULL BRIGHTNESS. DEFAULT SETTING OF LIGHTING CONTROLLERS WHEN CONTROL DEVICES LOSE POWER SHALL BE FULL ON.
3. ALTERNATE MANUFACTURERS SHALL INDICATE HOW SUCH SYSTEMS ACHIEVE EQUIVALENT FUNCTIONALITY WITH COMPLETE WIRING DIAGRAMS AND WRITTEN SEQUENCES OF OPERATION FOR EACH DETAIL.



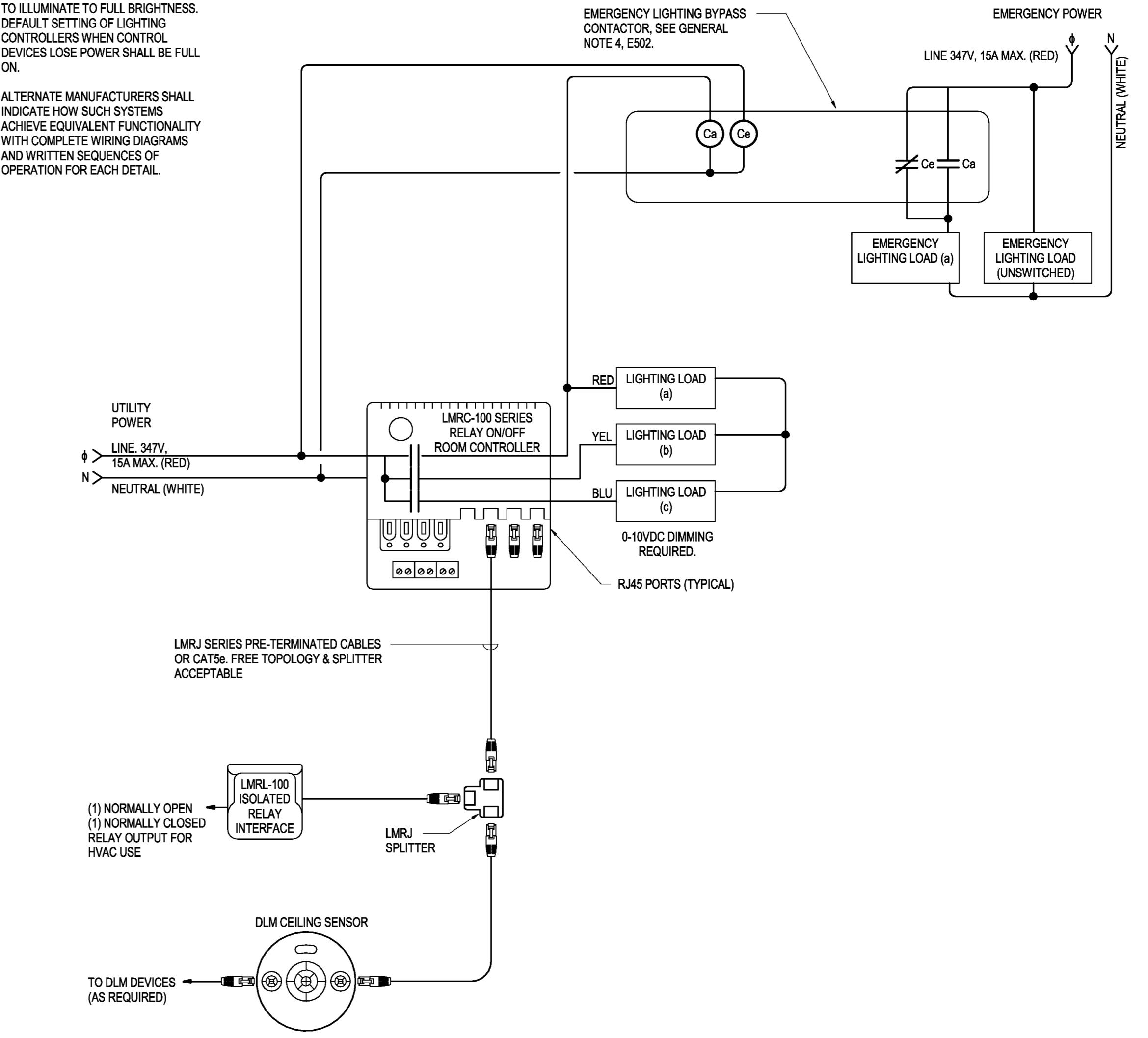
**REGULAR SEQUENCE OF OPERATION:**

SEQUENCE: OVERHEAD LIGHTS ARE MANUALLY TURNED ON AND SHUT OFF WITH A VACANCY SENSOR. ON LIGHTS ARE TURNED ON MANUALLY. OFF LIGHTS SHUT OFF WHEN NO MOTION IS DETECTED FOR 15 MINUTES OR MANUALLY TURNED OFF.

**4 TYPE "B" DLM SYSTEM ROOM CONTROLLER, VACANCY SENSING W/ EMERGENCY LIGHTING**  
E503 N.T.S.

**EMERGENCY LIGHTING SEQUENCE OF OPERATION**

1. WHEN UTILITY POWER IS AVAILABLE, LIGHTING ON NORMAL AND EMERGENCY CIRCUITS ARE CONTROLLED AND DIMMED BY THE SAME DEVICES, AND CAN BE CONTROLLED AND DIMMED NORMALLY.
2. WHEN UTILITY POWER HAS FAILED AND GENERATOR POWER IS AVAILABLE, ALL LIGHTING ON EMERGENCY CIRCUITS IS TO ILLUMINATE TO FULL BRIGHTNESS. DEFAULT SETTING OF LIGHTING CONTROLLERS WHEN CONTROL DEVICES LOSE POWER SHALL BE FULL ON.
3. ALTERNATE MANUFACTURERS SHALL INDICATE HOW SUCH SYSTEMS ACHIEVE EQUIVALENT FUNCTIONALITY WITH COMPLETE WIRING DIAGRAMS AND WRITTEN SEQUENCES OF OPERATION FOR EACH DETAIL.



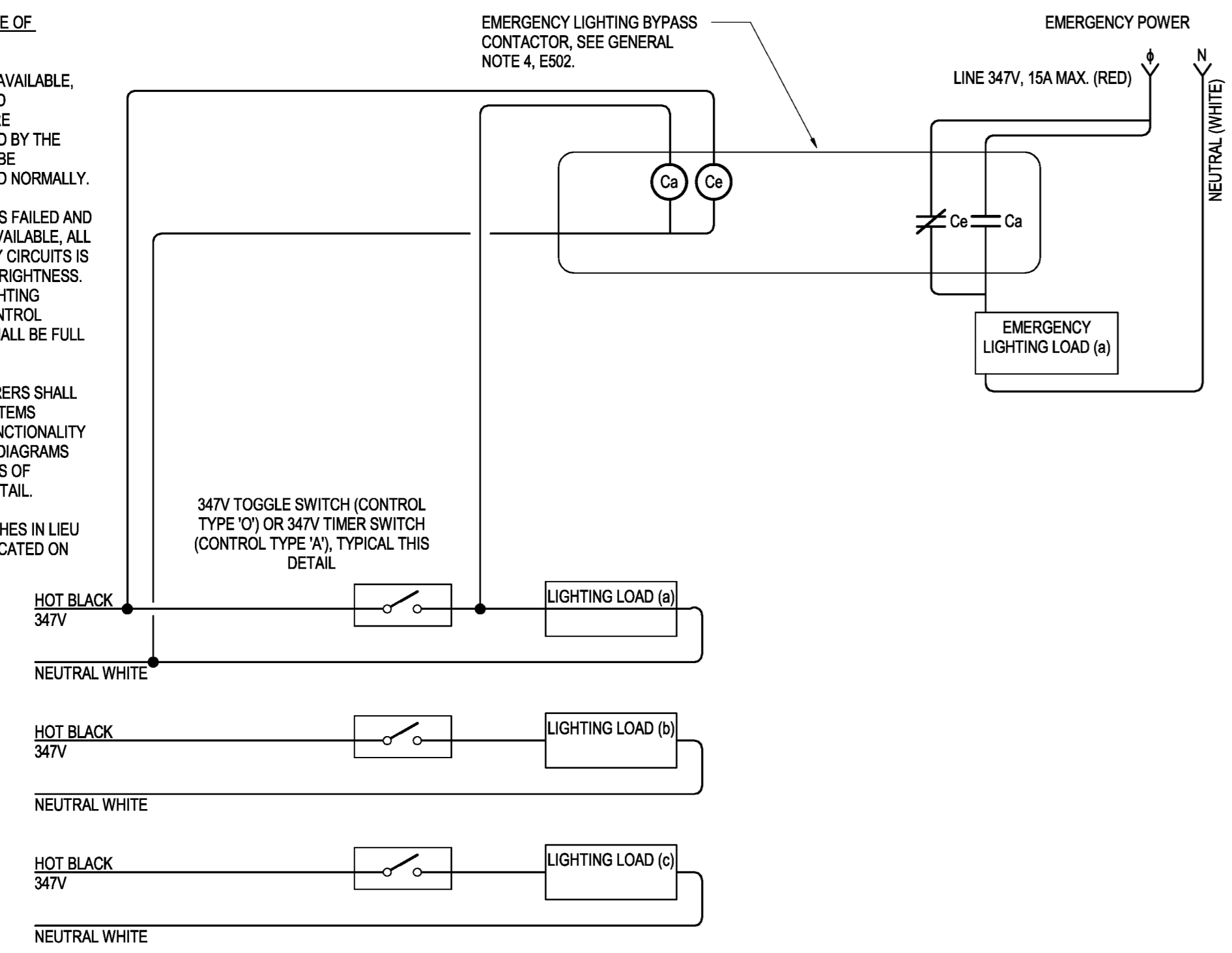
**REGULAR SEQUENCE OF OPERATION:**

SEQUENCE: OCCUPANCY SENSOR ON/OFF TO 100%. LIGHTS ARE AUTOMATICALLY CONTROLLED IN THIS SPACE. ON LIGHTS WILL AUTOMATICALLY TURN ON TO 100% WHEN THE SPACE BECOMES OCCUPIED. OFF: AFTER THE SPACE HAS BEEN VACANT FOR 30 MINUTES, THE LIGHTS WILL AUTOMATICALLY TURN OFF WITH THE EXCEPTION OF DESIGNATED EMERGENCY LIGHTS.

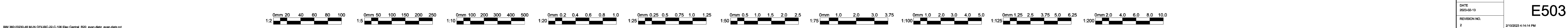
**5 TYPES "E" DLM SYSTEM ROOM CONTROLLER, VACANCY SENSING W/ EMERGENCY LIGHTING**  
E503 N.T.S.

**EMERGENCY LIGHTING SEQUENCE OF OPERATION**

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3. ALTERNATE MANUFACTURERS SHALL INDICATE HOW SUCH SYSTEMS ACHIEVE EQUIVALENT FUNCTIONALITY WITH COMPLETE WIRING DIAGRAMS AND WRITTEN SEQUENCES OF OPERATION FOR EACH DETAIL.
4. PROVIDE 2 - 3 WAY SWITCHES IN LIEU OF 1 SWITCH WHERE INDICATED ON FLOOR PLAN.



**3 TYPE "O" AND "A" DLM SYSTEM ROOM CONTROLLER**  
E503 N.T.S.



**Key Plan**

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- Dedication plaque, Arts & Administration Building, St. John's Campus

Prepared For  
**MEMORIAL UNIVERSITY OF NEWFOUNDLAND**  
ST. JOHN'S, NEWFOUNDLAND

Architect Prime Consultant:  
**FOUGERE MENCHENTON ARCHITECTURE**

Discipline:  
**ELECTRICAL**

Sub-Consultant: Mechanical and Electrical  
**JBC JEWELLER CONSULTANTS**

PROVINCE OF NEWFOUNDLAND AND LABRADOR  
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MEMBER OF THE PROFESSION OF ENGINEERS AND ARCHITECTS OF NEWFOUNDLAND AND LABRADOR  
Permit No. as issued by PEG 00540 which is valid for the year 2023.

Drawn: E.D. Checked: D.C.  
Designed: E.D. Approved: D.C.

Consultants Project No.  
**JBC-22-C-106**

Professional Stamp & Permit  
**PEB**  
Professional Engineer  
No. 2023-02-13  
Newfoundland & Labrador

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2	ISSUED FOR CONSTRUCTION	2023-02-13
1	ISSUED FOR ADDENDUM #2	2022-12-14
0	ISSUED FOR TENDER	2022-12-01
D	ISSUED FOR 80% REVIEW	2022-09-30
C	ISSUED FOR 30% REVIEW	2022-09-08
B	ISSUED FOR REVIEW	2022-08-19
A	ISSUED FOR 50% DD	2022-08-09
No.	Revisions	MM/DD/YY

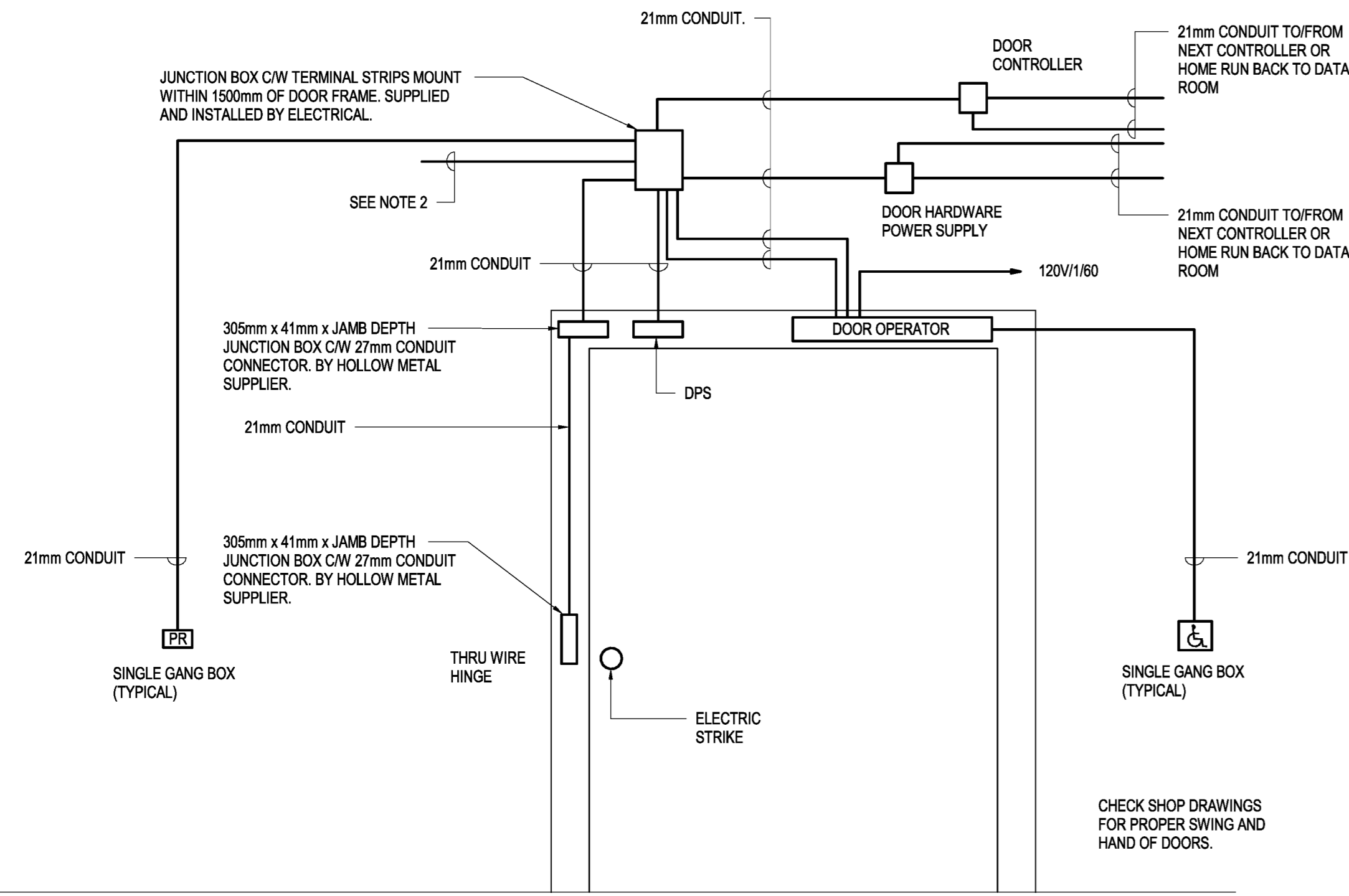
Drawing Nomenclature  
Detail/Section No. **3** Dwg. No. where detailed  
**A-1**

PROJECT TITLE  
**OFI FIT UP, PAV-A, LEVEL 5**

Client's Project No.: CSF-001-21  
DRAWING TITLE  
**ELECTRICAL DETAILS**

SCALE: 1:5  
DRAWING NO.: **E503**  
DATE: 2023-02-13  
REVISION NO.: 2  
2/10/2023 4:14:14 PM

ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE SUPPLY AND INSTALLATION OF ALL CONDUIT AND BOXES REQUIRED FOR 120V AND LOW VOLTAGE WIRING AND EQUIPMENT ASSOCIATED WITH THESE SYSTEMS. THESE SKETCHES ARE GENERIC AND INTENDED TO REPRESENT A TYPICAL ELEVATION. THE ACTUAL CONDUIT REQUIREMENTS FOR EACH DOOR SHALL BE AS PER THE SHOP DRAWINGS FOR EACH INDIVIDUAL DOOR. REFER TO THE 1500 SERIES DRAWINGS FOR LOCATIONS OF ALL DOORS WITH CARD ACCESS, AND REFER TO SPECIFICATION SECTION 081100 FOR THE ELECTRICAL REQUIREMENTS ASSOCIATED WITH EACH DOOR AND HARDWARE GROUP. ALL EMPTY CONDUITS FOR LOW VOLTAGE WIRING SHALL BE COMPLETE WITH PULL STRINGS.

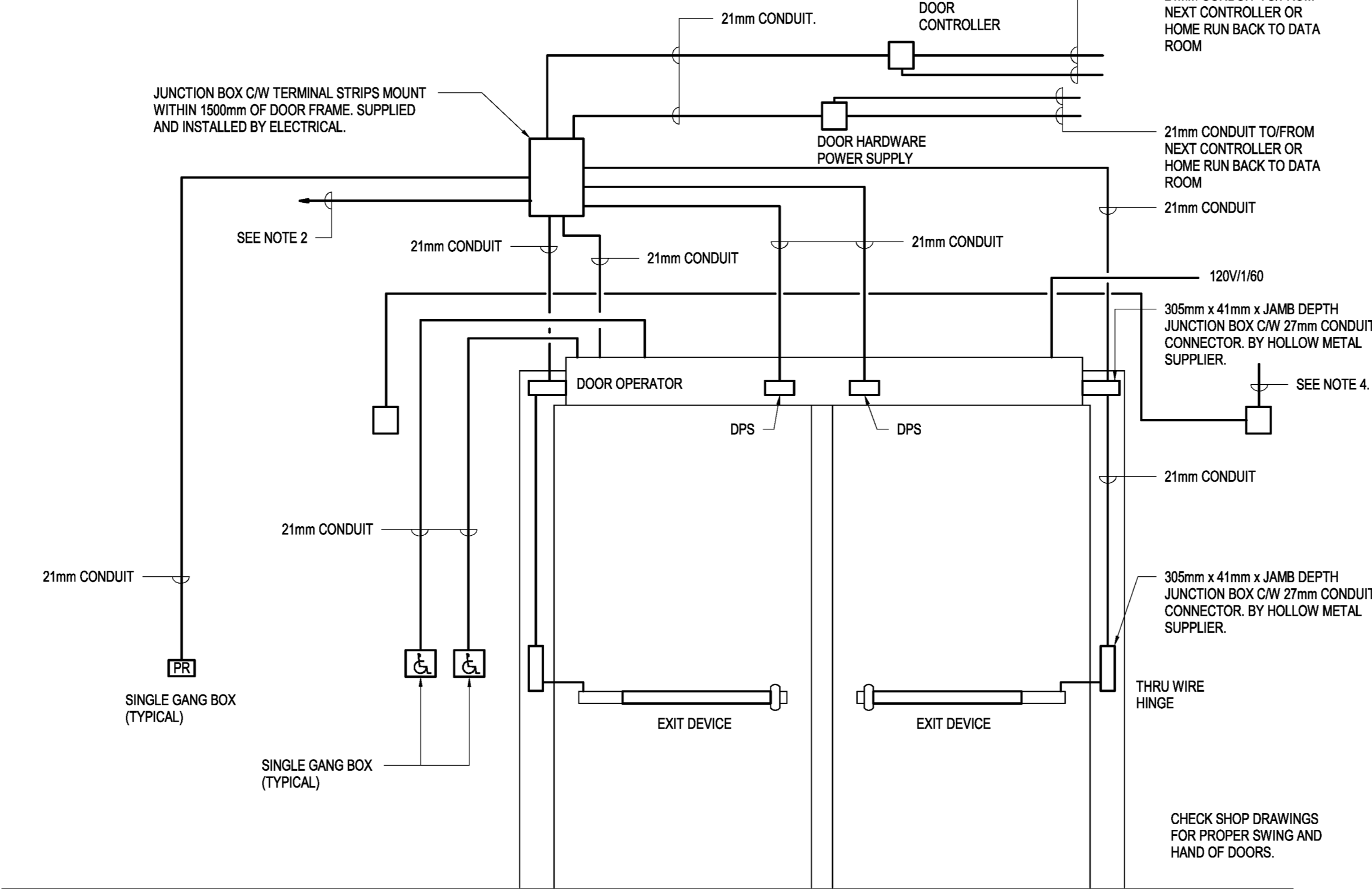


**NOTES:**

1. ALL CONDUIT AND 120VAC WIRING BY ELECTRICAL CONTRACTOR.
2. DOORS INDICATED IN DOOR HARDWARE SCHEDULE AS BEING CONNECTED TO FIRE ALARM INTERLOCK SHALL HAVE THEIR DOOR CONTROLLERS CONNECTED INTO THE FIRE ALARM SYSTEM SO THAT ON GENERAL ALARM THEIR INTERLOCKS ARE BYPASSED.
3. CONFIRM SINGLE GANG BOX LOCATIONS FOR CARD READERS AND DOOR OPERATOR PUSHBUTTONS WITH ARCH. PRIOR TO ROUGHING IN.

**1 DOOR HARDWARE ROUGH-IN DETAIL**  
E504 N.T.S.

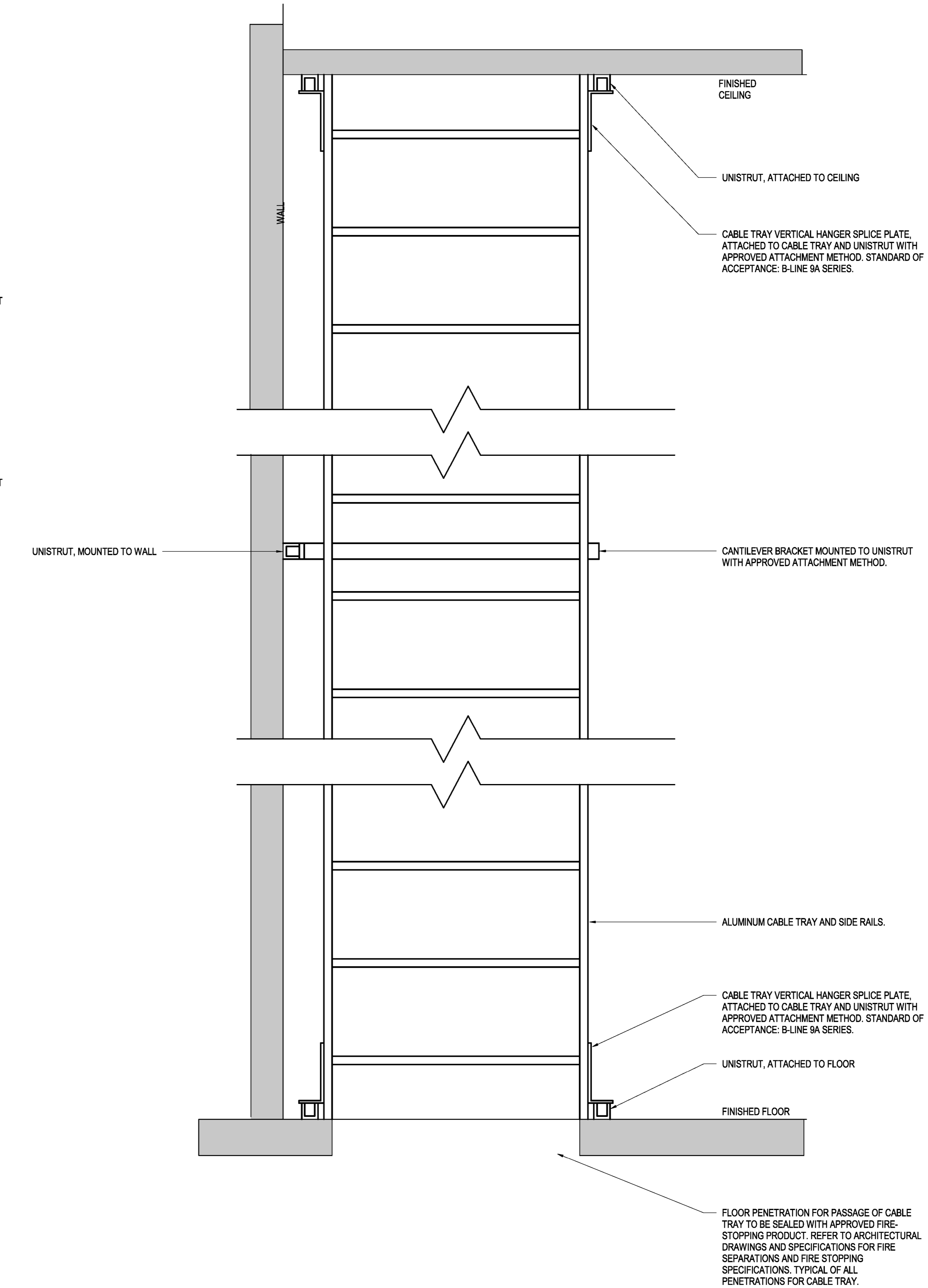
ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE SUPPLY AND INSTALLATION OF ALL CONDUIT AND BOXES REQUIRED FOR 120V AND LOW VOLTAGE WIRING AND EQUIPMENT ASSOCIATED WITH THESE SYSTEMS. THESE SKETCHES ARE GENERIC AND INTENDED TO REPRESENT A TYPICAL ELEVATION. THE ACTUAL CONDUIT REQUIREMENTS FOR EACH DOOR SHALL BE AS PER THE SHOP DRAWINGS FOR EACH INDIVIDUAL DOOR. REFER TO THE 1500 SERIES DRAWINGS FOR LOCATIONS OF ALL DOORS WITH CARD ACCESS, AND REFER TO SPECIFICATION SECTION 081100 FOR THE ELECTRICAL REQUIREMENTS ASSOCIATED WITH EACH DOOR AND HARDWARE GROUP. ALL EMPTY CONDUITS FOR LOW VOLTAGE WIRING SHALL BE COMPLETE WITH PULL STRINGS.



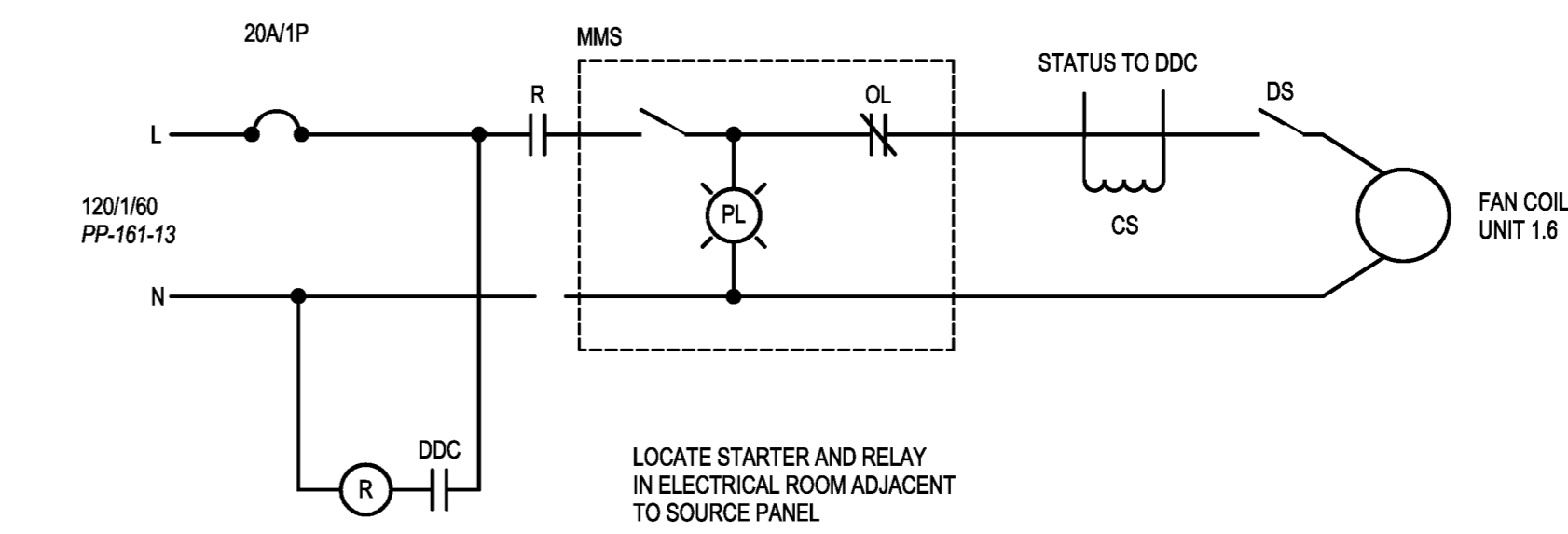
**NOTES:**

1. ALL CONDUIT AND 120VAC WIRING BY ELECTRICAL CONTRACTOR.
2. DOORS INDICATED IN DOOR HARDWARE SCHEDULE AS BEING CONNECTED TO FIRE ALARM INTERLOCK SHALL HAVE THEIR DOOR CONTROLLERS CONNECTED INTO THE FIRE ALARM SYSTEM SO THAT ON GENERAL ALARM THEIR INTERLOCKS ARE BYPASSED.
3. CONFIRM SINGLE GANG BOX LOCATIONS FOR CARD READERS AND DOOR OPERATOR PUSHBUTTONS WITH ARCH. PRIOR TO ROUGHING IN.
4. PROVIDE 120V CONNECTION TO EACH ELECTROMAGNETIC HOLD OPEN DEVICE AND INTERLOCK TO FIRE ALARM SUCH THAT DOORS WILL RELEASE UPON GENERAL ALARM.

**2 DOOR HARDWARE ROUGH-IN DETAIL**  
E504 N.T.S.

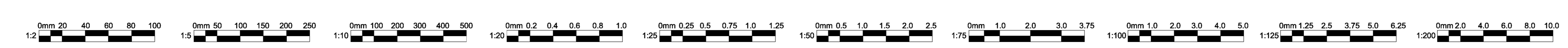


**3 VERTICAL CABLE TRAY MOUNTING - ELEVATION VIEW**  
E504 1:1



- LEGEND:**
- MMS - MANUAL MOTOR STARTER CW OVERLOADS TO SUIT MOTOR RATING AND LOCKING TAB TO LOCK IN THE 'ON' POSITION.
  - R - RELAY WITH 120 VAC COIL AND 120 VAC CONTACTS RATED TO CARRY THE MOTOR LOAD. MOUNT IN NEMA 1 SPRINKLER PROOF ENCLOSURE. MOUNT ADJACENT TO MMS.
  - DDC - CONTROL POINT IN DDC PANEL. RUN 2#14 RW90 WIRES IN 16mm CONDUIT FROM RELAY ENCLOSURE TO DDC PANEL.
  - CS - CURRENT SENSOR SUPPLIED AND INSTALLED IN ENCLOSURE WITH RELAY. RUN WIRING IN SEPARATE CONDUIT FROM STARTER TO DDC PANEL.
  - DS - LOCKABLE DISC SWITCH BY THIS DIVISION, RATED FOR MOTOR LOAD, IN CEILING SPACE WITH MOTOR.

**4 WIRING DETAIL - FAN COIL UNIT 1.6**  
E504 N.T.S.



Key Plan

Client:

**MEMORIAL UNIVERSITY**  
Department of Facilities Management  
*This University was raised by the people of Newfoundland as a memorial to the fallen in the great wars, 1914-1918, 1939-1945, that in freedom of learning, their cause and sacrifice might not be forgotten.*  
- Dedication plaque, Arts & Administration Building, St. John's Campus

Prepared For  
**MEMORIAL UNIVERSITY OF NEWFOUNDLAND**  
ST. JOHN'S, NEWFOUNDLAND

Architect Prime Consultant:  
**FOUGERE MENCHENTON ARCHITECTURE**

Discipline:  
**ELECTRICAL**  
Sub-Consultant: Mechanical and Electrical

JBC JEWELLER BAILEY CONSULTANTS  
CONSULTING ENGINEERS ARCHITECTS

PROVINCE OF NEWFOUNDLAND AND LABRADOR  
PERMIT HOLDER  
This Permit Allows  
JEWELLER BAILEY CONSULTANTS LTD.  
MEMBER OF THE PROFESSION OF ENGINEERS  
To practice Professional Engineering in Newfoundland and Labrador  
Permit No. as issued by PEG 00540 which is valid for the year 2023.

Drawn: E.D. Checked: D.C.  
Designed: E.D. Approved: D.C.

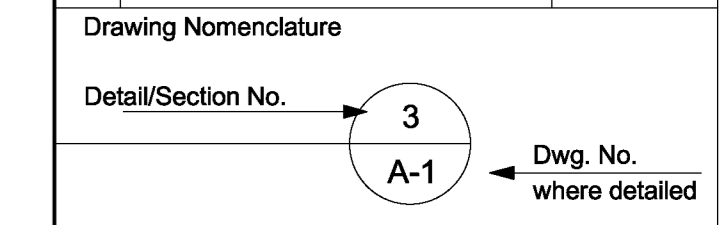
Consultants Project No.  
**JBC-22-C-106**

Professional Stamp & Permit  
PEGL  
PROFESSIONAL ENGINEER  
NEWFOUNDLAND & LABRADOR  
2023-02-13

Notes:

1. DO NOT SCALE FROM THIS DRAWING.
2. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN MILLIMETRES.
3. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS ON SITE PRIOR TO PROCEEDING WITH ANY PORTION OF THIS WORK.
4. CONTRACTOR SHALL DO ALL WORK IN ACCORDANCE WITH THE APPLICABLE STANDARDS AND CODES INCLUDING, BUT NOT LIMITED TO, THE NATIONAL BUILDING CODE OF CANADA.

No.	Revisions	MM/DD/YY
2	ISSUED FOR CONSTRUCTION	2023-02-13
1	ISSUED FOR ADDENDUM #2	2022-12-14
0	ISSUED FOR TENDER	2022-12-01
D	ISSUED FOR 80% REVIEW	2022-09-30
C	ISSUED FOR 30% REVIEW	2022-09-08
B	ISSUED FOR REVIEW	2022-08-19
A	ISSUED FOR 50% DD	2022-08-09



PROJECT TITLE  
**OFI FIT UP, PAV-A, LEVEL 5**

Client's Project No.: CSF-001-21

DRAWING TITLE  
**ELECTRICAL DETAILS**

SCALE N.T.S.	DRAWING NO. <b>E504</b>
DATE 2023-02-13	REVISION NO. 2

NEW PANEL DP-037													
LOCATION:		ELEC ES301		MOUNTING:		SURFACE		MANS TYPE:		MLO		MCS	
SUPPLY FROM:		NEW 15KA TRANSFORMER		ENCLOSURE:		TYPE 1 - SPRINKLERPROOF		MANS RATING:		225 A		125 A	
SERVICE:		120208 Wye 30, 4W		A.I.C. RATING:		22A		MCS RATING:		400 A			
LOAD DESCRIPTION	LOAD	WIRE	BREAKER	ACC	CCT	A	B	C	CCT	ACC	BREAKER	WIRE	LOAD
NEW PANEL PP-161	360W	20	150 A, 3P			12946 VA / 0 VA	11800 VA / 0 VA	13300 VA / 0 VA	2				
NEW PANEL PP-162	21189 W	2	100 A, 3P			8000 VA / 0 VA	7300 VA / 0 VA	5889 VA / 0 VA	10				
<b>COMMENTS:</b> NOTES: 1. PANELBOARD SHALL BE COMPLETE WITH AN ISOLATED GROUND BUS BAR.													

NEW PANEL LP-021													
LOCATION:		ELEC ES301		MOUNTING:		SURFACE		MANS TYPE:		MLO		MCS	
SUPPLY FROM:		NEW 15KA TRANSFORMER		ENCLOSURE:		TYPE 1 - SPRINKLERPROOF		MANS RATING:		225 A		125 A	
SERVICE:		120208 Wye 30, 4W		A.I.C. RATING:		22A		MCS RATING:		400 A			
LOAD DESCRIPTION	LOAD	WIRE	BREAKER	ACC	CCT	A	B	C	CCT	ACC	BREAKER	WIRE	LOAD
LIGHTING-WASHROOMS	130 W	12	15 A, 1P			134 VA / 0 VA			2				
LIGHTING-P.I. STATIONS, OFFICES	618 W	12	15 A, 1P				647 VA / 0 VA		4				
LIGHTING-DISTANCE LEARNING L...	478 W	12	15 A, 1P					501 VA / 0 VA	8				
LIGHTING-DRY LAB 5304	743 W	12	15 A, 1P			783 VA / 0 VA			7				
LTG-DAMOS, HIDDLE RMS, GRAD, STOR	639 W	12	15 A, 1P				667 VA / 0 VA		10				
LIGHTING-CLASSRM 5301F MEETING 5305	363 W	12	15 A, 1P				414 VA / 0 VA		12				
LIGHTING-CORRIDORS	1099 W	12	15 A, 1P			1062 VA / 0 VA			14				
LIGHTING-ACCENT WALL	500 W	12	15 A, 1P				500 VA / 0 VA		16				
<b>COMMENTS:</b> CONNECTED LOAD 4855 VA ESTIMATED DEMAND 4855 VA TOTAL CONNECTED CURRENT 16 A TOTAL ESTIMATED DEMAND CURRENT 5 A													

EXISTING PANEL EMG-132													
LOCATION:		ELEC ES302		MOUNTING:		SURFACE		MANS TYPE:		MLO		MCS	
SUPPLY FROM:		NEW 15KA TRANSFORMER		ENCLOSURE:		TYPE 1 - SPRINKLERPROOF		MANS RATING:		225 A		125 A	
SERVICE:		120208 Wye 30, 4W		A.I.C. RATING:		22A		MCS RATING:		400 A			
LOAD DESCRIPTION	LOAD	WIRE	BREAKER	ACC	CCT	A	B	C	CCT	ACC	BREAKER	WIRE	LOAD
EXISTING LIGHTING LOAD	0 W		15 A, 1P			0 VA / 0 VA			1				
EXISTING LIGHTING LOAD	0 W		15 A, 1P			0 VA / 0 VA			2				
EXISTING LIGHTING LOAD	0 W		15 A, 1P			0 VA / 0 VA			3				
EXISTING LIGHTING LOAD	0 W		15 A, 1P			0 VA / 0 VA			4				
EXISTING LIGHTING LOAD	0 W		15 A, 1P			0 VA / 0 VA			5				
EXISTING LIGHTING LOAD	0 W		15 A, 1P			0 VA / 0 VA			6				
EXISTING LIGHTING LOAD	0 W		15 A, 1P			0 VA / 0 VA			7				
EXISTING LIGHTING LOAD	0 W		15 A, 1P			0 VA / 0 VA			8				
EXISTING LIGHTING LOAD	0 W		15 A, 1P			0 VA / 0 VA			9				
EXISTING LIGHTING LOAD	0 W		15 A, 1P			0 VA / 0 VA			10				
EXISTING LIGHTING LOAD	0 W		15 A, 1P			0 VA / 0 VA			11				
EXISTING LIGHTING LOAD	0 W		15 A, 1P			0 VA / 0 VA			12				
EXISTING LIGHTING LOAD	0 W		15 A, 1P			0 VA / 0 VA			13				
EXISTING LIGHTING LOAD	0 W		15 A, 1P			0 VA / 0 VA			14				
EXISTING LIGHTING LOAD	0 W		15 A, 1P			0 VA / 0 VA			15				
EXISTING LIGHTING LOAD	0 W		15 A, 1P			0 VA / 0 VA			16				
EXISTING LIGHTING LOAD	0 W		15 A, 1P			0 VA / 0 VA			17				
EXISTING LIGHTING LOAD	0 W		15 A, 1P			0 VA / 0 VA			18				
EXISTING LIGHTING LOAD	0 W		15 A, 1P			0 VA / 0 VA			19				
EXISTING LIGHTING LOAD	0 W		15 A, 1P			0 VA / 0 VA			20				
EXISTING LIGHTING LOAD	0 W		15 A, 1P			0 VA / 0 VA			21				
EXISTING LIGHTING LOAD	0 W		15 A, 1P			0 VA / 0 VA			22				
EXISTING LIGHTING LOAD	0 W		15 A, 1P			0 VA / 0 VA			23				
EXISTING LIGHTING LOAD	0 W		15 A, 1P			0 VA / 0 VA			24				
EXISTING LIGHTING LOAD	0 W		15 A, 1P			0 VA / 0 VA			25				
EXISTING LIGHTING LOAD	0 W		15 A, 1P			0 VA / 0 VA			26				
EXISTING LIGHTING LOAD	0 W		15 A, 1P			0 VA / 0 VA			27				
EXISTING LIGHTING LOAD	0 W		15 A, 1P			0 VA / 0 VA			28				
EXISTING LIGHTING LOAD	0 W		15 A, 1P			0 VA / 0 VA			29				
EXISTING LIGHTING LOAD	0 W		15 A, 1P			0 VA / 0 VA			30				
EXISTING LIGHTING LOAD	0 W		15 A, 1P			0 VA / 0 VA			31				
EXISTING LIGHTING LOAD	0 W		15 A, 1P			0 VA / 0 VA			32				
EXISTING LIGHTING LOAD	0 W		15 A, 1P			0 VA / 0 VA			33				
EXISTING LIGHTING LOAD	0 W		15 A, 1P			0 VA / 0 VA			34				
EXISTING LIGHTING LOAD	0 W		15 A, 1P			0 VA / 0 VA			35				
EXISTING LIGHTING LOAD	0 W		15 A, 1P			0 VA / 0 VA			36				
EXISTING LIGHTING LOAD	0 W		15 A, 1P			0 VA / 0 VA			37				
EXISTING LIGHTING LOAD	0 W		15 A, 1P			0 VA / 0 VA			38				
EXISTING LIGHTING LOAD	0 W		15 A, 1P			0 VA / 0 VA			39				
EXISTING LIGHTING LOAD	0 W		15 A, 1P			0 VA / 0 VA			40				
EXISTING LIGHTING LOAD	0 W		15 A, 1P			0 VA / 0 VA			41				
EXISTING LIGHTING LOAD	0 W		15 A, 1P			0 VA / 0 VA			42				
<b>COMMENTS:</b> BREAKER ACCESSORIES (ACC): * - INDICATES BREAKER C/W LOCK-ON DEVICE † - INDICATES GFCI BREAKER ‡ - INDICATES GFCI BREAKER WITH 30mA TRIP NB - INDICATES NEW BREAKER TO BE INSTALLED IN EXISTING PANEL. CONTRACTOR TO REVISE PANEL SCHEDULE DIRECTORY.													

NEW PANEL PP-161													
LOCATION:		ELEC ES301		MOUNTING:		SURFACE		MANS TYPE:		MLO		MCS	
SUPPLY FROM:		NEW 15KA TRANSFORMER		ENCLOSURE:		TYPE 1 - SPRINKLERPROOF		MANS RATING:		225 A		125 A	
SERVICE:		120208 Wye 30, 4W		A.I.C. RATING:		22A		MCS RATING:		400 A			
LOAD DESCRIPTION	LOAD	WIRE	BREAKER	ACC	CCT	A	B	C	CCT	ACC	BREAKER	WIRE	LOAD
RECEPTACLES-P.I. STATION 1, 2	800 W	10	20 A, 1P			800 VA / 500 VA			2				
RECEPTACLES-P.I. STATION 1, 2	1000 W	10	20 A, 1P			1000 VA / 800 VA			4				
RECEPTACLES-P.I. STATION 3, OFFICE 5311	800 W	10	20 A, 1P			800 VA / 1000 VA			6				
RECEPTACLES-P.I. STATION 3, OFFICE 5311	1000 W	10	20 A, 1P			1000 VA / 400 VA			8				
RECEPTACLES-P.I. STATION 3, OFFICE 5311	1000 W	10	20 A, 1P			1000 VA / 400 VA			10				
RECEPTACLES-P.I. STATION 3, OFFICE 5311	1000 W	10	20 A, 1P			1000 VA / 1000 VA			12				
RECEPTACLES-P.I. STATION 3, OFFICE 5311	1000 W	10	20 A, 1P			1000 VA / 200 VA			14				
RECEPTACLES-P.I. STATION 3, OFFICE 5311	1000 W	10	20 A, 1P			1000 VA / 600 VA			16				
RECEPTACLES-P.I. STATION 3, OFFICE 5311	1000 W	10	20 A, 1P			1000 VA / 600 VA			18				
RECEPTACLES-P.I. STATION 3, OFFICE 5311	1000 W	10	20 A, 1P			1000 VA / 400 VA			20				
RECEPTACLES-P.I. STATION 3, OFFICE 5311	1000 W	10	20 A, 1P			1000 VA / 400 VA			22				
RECEPTACLES-P.I. STATION 3, OFFICE 5311	1000 W	10	20 A, 1P			1000 VA / 400 VA			24				
RECEPTACLES-P.I. STATION 3, OFFICE 5311	1000 W	10	20 A, 1P			1000 VA / 400 VA			26				
RECEPTACLES-P.I. STATION 3, OFFICE 5311	1000 W	10	20 A, 1P			1000 VA / 400 VA			28				
RECEPTACLES-P.I. STATION 3, OFFICE 5311	1000 W	10	20 A, 1P			1000 VA / 400 VA			30				
RECEPTACLES-P.I. STATION 3, OFFICE 5311	1000 W	10	20 A, 1P			1000 VA / 400 VA			32				
RECEPTACLES-P.I. STATION 3, OFFICE 5311	1000 W	10	20 A, 1P			1000 VA / 400 VA			34				
RECEPTACLES-P.I. STATION 3, OFFICE 5311	1000 W	10	20 A, 1P			1000 VA / 400 VA			36				
RECEPTACLES-P.I. STATION 3, OFFICE 5311	1000 W	10	20 A, 1P			1000 VA / 400 VA			38				
RECEPTACLES-P.I. STATION 3, OFFICE 5311	1000 W	10	20 A, 1P			1000 VA / 400 VA			40				
RECEPTACLES-P.I. STATION 3, OFFICE 5311	1000 W	10	20 A, 1P			1000 VA / 400 VA			42				
RECEPTACLES-P.I. STATION 3, OFFICE 5311	1000 W	10	20 A, 1P			1000 VA / 400 VA			44				
RECEPTACLES-P.I. STATION 3, OFFICE 5311	1000 W	10	20 A, 1P			1000 VA / 400 VA			46				
RECEPTACLES-P.I. STATION 3, OFFICE 5311	1000 W	10	20 A, 1P			1000 VA / 400 VA			48				
RECEPTACLES-P.I. STATION 3, OFFICE 5311	1000 W	10	20 A, 1P			1000 VA / 400 VA			50				
RECEPTACLES-P.I. STATION 3, OFFICE 5311	1000 W	10	20 A, 1P			1000 VA / 400 VA			52				
RECEPTACLES-P.I. STATION 3, OFFICE 5311	1000 W	10	20 A, 1P			1000 VA / 400 VA			54				
RECEPTACLES-P.I. STATION 3, OFFICE 5311	1000 W	10	20 A, 1P			1000 VA / 400 VA			56				
RECEPTACLES-P.I. STATION 3, OFFICE 5311	1000 W	10	20 A, 1P			1000 VA / 400 VA			58				
RECEPTACLES-P.I. STATION 3, OFFICE 5311	1000 W	10	20 A, 1P			1000 VA / 400 VA			60				
<b>COMMENTS:</b> BREAKER ACCESSORIES (ACC): * - INDICATES BREAKER C/W LOCK-ON DEVICE † - INDICATES GFCI BREAKER ‡ - INDICATES GFCI BREAKER WITH 30mA TRIP													

EXISTING PANEL EMG-133													
LOCATION:		ELEC ES303		MOUNTING:		SURFACE		MANS TYPE:		MLO		MCS	
SUPPLY FROM:		NEW 15KA TRANSFORMER		ENCLOSURE:		TYPE 1 - SPRINKLERPROOF		MANS RATING:		225 A		125 A	
SERVICE:		120208 Wye 30, 4W		A.I.C. RATING:		22A		MCS RATING:		400 A			
LOAD DESCRIPTION	LOAD	WIRE	BREAKER	ACC	CCT	A	B	C	CCT	ACC	BREAKER	WIRE	LOAD
EXISTING LOAD	0 W		20 A, 1P			0 VA / 0 VA			2				
EXISTING LOAD	0 W		20 A, 1P			0 VA / 0 VA			4				
EXISTING LOAD	0 W		20 A,										

LIGHTING FIXTURE SCHEDULE																
TYPE	GENERAL DATA				LAMP DATA		LAMP DATA			MOUNTING DATA			ELECTRICAL CHARACTERISTICS			REMARKS
	FIXTURE	MANUFACTURER	CATALOG NO.	SHIELDING	NOMINAL LUMENS	COLOR TEMPERATURE	LAMP WATTAGE	LAMP DESIGNATION	LOCATION	METHOD	MOUNTING HEIGHT	CEILING OR WALL FINISH	FIXTURE VOLTAGE	BALAST/DRIVER TYPE	TOTAL FIXTURE WATTAGE	
L02	1/4" LINEAR RECESSED LUMINAIRE	LEDALITE-SIGNIFY	4214D1S1B550A13E	ACRYLIC LENS	4000lm	3500K	33 W	LED	CEILING	RECESSED	SEE ARCH.	SEE ARCH.	347 V	0-10V DIMMING DRIVER	33 W	SEE NOTE 1.
L04	4" SQUARE APERTURE LED DOWNLIGHT	SPECTRUM LIGHTING	SDF04XT-13L-39K-MO-D510-347-SDFXT-SG	---	---	---	24 W	LED	CEILING	RECESSED	SEE ARCH.	SEE ARCH.	347 V	0-10V DIMMING DRIVER	24 W	SEE NOTE 2.
L04C	4" SQUARE APERTURE LED DOWNLIGHT	SPECTRUM LIGHTING	SDF04XT-13L-39K-MO-D510-347-SDFXT-SG	---	---	---	15 W	LED	CEILING	RECESSED	SEE ARCH.	SEE ARCH.	347 V	0-10V DIMMING DRIVER	15 W	SEE NOTE 2.
L06-08	# 5/8" LINEAR RECESSED LUMINAIRE	LEDALITE-SIGNIFY	3900L03515L54083E1	FLUSH SILK LENS	3000lm (1500lm/4ft)	3500K	30 W	LED	CEILING	RECESSED	SEE ARCH.	SEE ARCH.	347 V	0-10V DIMMING DRIVER	30 W	
L06-16	# 1/2" LINEAR RECESSED LUMINAIRE	LEDALITE-SIGNIFY	3900L03515L54163E1	FLUSH SILK LENS	3000lm (1500lm/4ft)	3500K	59 W	LED	CEILING	RECESSED	SEE ARCH.	SEE ARCH.	347 V	0-10V DIMMING DRIVER	59 W	
L07	# GENERAL PURPOSE SUSPENDED STRIP LIGHT	DAY-BRIGHT CFI-SIGNIFY	FSH40L835-347-DIM	FROSTED ACRYLIC LENS	4170lm	3500K	31 W	LED	CEILING	SUSPENDED	3.0m A.F.F.	SEE ARCH.	347 V	0-10V DIMMING DRIVER	31 W	CW WIREGUARD AND CHAIN HANGER SET
L09	2x2 LED LAY-IN TROFFER	DAY-BRIGHT CFI-SIGNIFY	2AVEG4L835-2-ACR-347-DIM	FROSTED RBBED ACRYLIC LENS	3200lm	3500K	31 W	LED	CEILING	RECESSED	SEE ARCH.	SEE ARCH.	347 V	0-10V DIMMING DRIVER	31 W	---
L10	2x4 LED LAY-IN TROFFER	DAY-BRIGHT CFI-SIGNIFY	2AVEG4L835-4-ACR-347-DIM	FROSTED RBBED ACRYLIC LENS	4900lm	3500K	44 W	LED	CEILING	RECESSED	SEE ARCH.	SEE ARCH.	347 V	0-10V DIMMING DRIVER	44 W	---
L14	4" LINEAR SURFACE MOUNTED LUMINAIRE	PRUDENTIAL	HSRLE035-SO-4-SAL-SC-347-SUR-X1-DIM01	ACRYLIC LENS	3520lm (880lm/ft)	3500K	36 W	LED	CEILING	SURFACE	SEE ARCH.	SEE ARCH.	347 V	0-10V DIMMING DRIVER	36 W	COORDINATE EXACT FINISHES AND COLOURS WITH ARCHITECT PRIOR TO SUBMITTING SHOP DRAWINGS.
L19a	CUSTOM LENGTH RECESSED LINEAR WALL WASH	FOCAL POINT	FWSL-FL-650LF-350K-8h CR-1C-347-DJ-LJ-WH	ACRYLIC LENS	650 LUMENS/FT	3500K	33 W	LED	CEILING	RECESSED	SEE ARCH.	SEE ARCH.	347 V	0-10V DIMMING DRIVER	33 W	VERIFY EXACT FIELD DIMENSIONS PRIOR TO PRODUCING SHOP DRAWINGS. COORDINATE ACTUAL CEILING TYPES WITH CONTRACT DOCUMENTS AND APPROVED SHOP DRAWINGS.
L19b	CUSTOM LENGTH RECESSED LINEAR WALL WASH	FOCAL POINT	FWSL-FL-650LF-350K-8h CR-1C-347-DJ-LJ-WH	ACRYLIC LENS	650 LUMENS/FT	3500K	134 W	LED	CEILING	RECESSED	SEE ARCH.	SEE ARCH.	347 V	0-10V DIMMING DRIVER	134 W	VERIFY EXACT FIELD DIMENSIONS PRIOR TO PRODUCING SHOP DRAWINGS. COORDINATE ACTUAL CEILING TYPES WITH CONTRACT DOCUMENTS AND APPROVED SHOP DRAWINGS.
L50	# GENERAL PURPOSE SUSPENDED STRIP LIGHT	DAY-BRIGHT CFI-SIGNIFY	FSH40L835-347-DIM	FROSTED ACRYLIC LENS	---	---	31 W	LED	CEILING	SUSPENDED	3.0m A.F.F.	SEE ARCH.	347 V	0-10V DIMMING DRIVER	31 W	---
LA02	LED	FLUXWERX	FD1-A-D-C-35-04-G-F3-3	ACRYLIC	3000lm	3500K	29 W	LED	CEILING	SUSPENDED	3.0m A.F.F.	SEE ARCH.	347 V	0-10V DIMMING DRIVER	29 W	COORDINATE EXACT ENDCAPS, FINISHES, AND COLOURS WITH ARCHITECT PRIOR TO SUBMITTING SHOP DRAWINGS.
LA07	CEILING PENDANT LUMINAIRE	CURRYEY & COMPANY	8000-0625	HAND-FORMED CONCRETE	---	---	10 W	LED BULB	CEILING	SUSPENDED	SEE ARCH.	SEE ARCH.	120 V	---	10 W	STONELOSS SLENDER PENDANT
LA08	1.5" SUSPENDED STRIP LIGHT	ALWAY	GO FIGURE RPD07 RPD07-SEE COMMENTS-3000-LUV	EXTRUDED, TWIN-LEADED, HIGH-IMPACT ACRYLIC	1000lm	3500K	14 W	LED	CEILING	SUSPENDED	3.0m A.F.F.	SEE ARCH.	120 V	0-10V DIMMING DRIVER	14 W	CONFIRM MOUNTING HEIGHT/CABLE LENGTH/FINISHES WITH ARCHITECT. SUPPLY AND INSTALL STEP-DOWN TRANSFORMER.

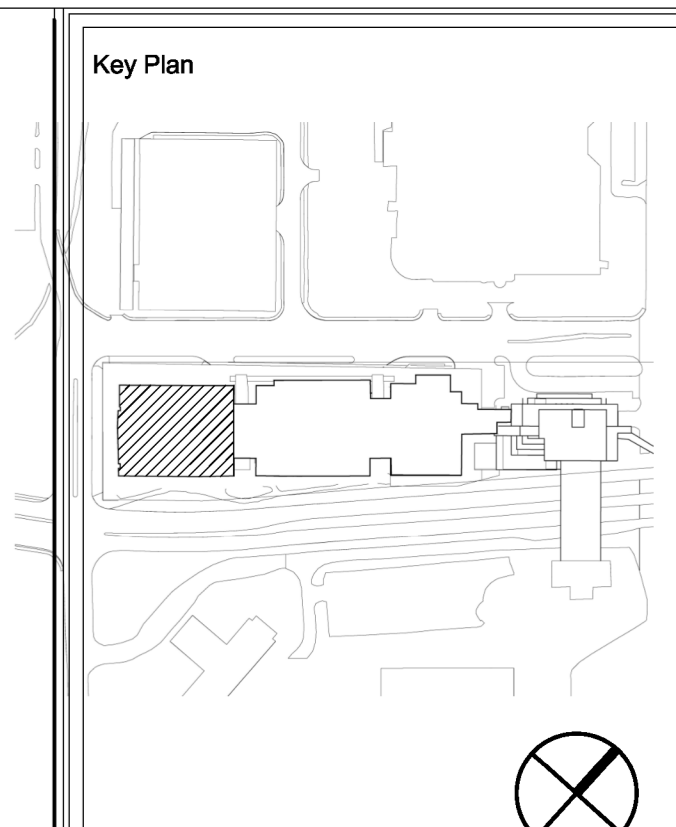
LIGHTING FIXTURE SCHEDULE NOTES

- LAMPING IN C.S. LED - 8h CRI, 3500K, CONSTANT CURRENT DRIVER CW 0-10V DIMMING, REMOTE 347 VOLT TRANSFORMER, INTEGRAL EMERGENCY DRIVER WITH BATTERY BACK-UP WHERE INDICATED. WHITE BODY/TRIM WITH WHITE PAINTED STEEL REFLECTOR, ACRYLIC LENS WITH MICRO OPTICS, SINGLE CIRCUIT. RECESS IN CEILING. COORDINATE CEILING TYPES WITH CONTRACT DOCUMENTS AND SHOP DRAWINGS. PROVIDE ALL REQUIRED MOUNTING BRACKETS, TRIM AND HARDWARE.
- LED - 8h CRI, 3500K, 114mm (4.5") SQUARE, CLEAR DIFFUSED CONE FINISH WITH WHITE FLANGED TRIM AND NON ADJUSTABLE. NEW CONSTRUCTION TYPE HOUSING, MEDIUM BEAM SPREAD WITH BEAM SOFTENING OPTICS, NON-DIMMING DRIVER FOR FIXTURES LOCATED IN CORRIDORS RESTROOMS & EXTERIOR ONLY. ALL OTHER LOCATIONS TO BE CW 0-10 VOLT DIMMING DRIVER AND 347 VOLT TRANSFORMER (WHERE INDICATED). FIXTURE TO BE CW INTEGRAL EMERGENCY BATTERY PACK WHERE INDICATED. MAXIMUM HEIGHT 119mm (4-1/2) HIGH HOUSING NORMAL POWER AND 193mm (8-5/16) FIXTURE WITH EM. BATTERY PACK.
- FURNISH ALL LIGHTING FIXTURES COMPLETE WITH MOUNTING ACCESSORIES TO MEET JOB REQUIREMENTS. VERIFY FIXTURE MOUNTING AND LOCATION AGAINST ARCHITECTS PLANS, ELEVATIONS AND DETAIL DRAWINGS. EXACT LOCATION OF ALL FIXTURES SHALL BE CONFIRMED WITH THE ARCHITECT PRIOR TO ROUGHING IN. REFER TO ARCHITECT 1 LIGHTING DESIGNER DRAWINGS AND/OR SPECIFICATIONS FOR ADDITIONAL FIXTURES OR REQUIREMENTS NOT SHOWN IN ELECTRICAL LIGHTING FIXTURE SCHEDULE.
- FIXTURE SUBMITTAL PACKAGE SHALL BE IN ELECTRONIC SEARCHABLE FORMAT (NOT SCANNED) AND INCLUDE THE FOLLOWING INFORMATION:
  - SUMMARY SHEET LISTING ALL THE LIGHT FIXTURES TYPES, THE CATALOG NUMBER FOR EACH, THE QUANTITY OF EACH FIXTURE, THE LAMP TYPE AND MANUFACTURER, THE BALLAST AND THE VOLTAGE.
  - EACH FIXTURE TYPE SHALL HAVE AN INDIVIDUAL SUMMARY SHEET THAT IDENTIFIES THE FOLLOWING - FIXTURE TYPE, FIXTURE MANUFACTURER, FIXTURE CATALOG NUMBER, VOLTAGE, SYSTEM WATTAGE (LAMP AND BALLAST), LAMP MANUFACTURER/CATALOG NUMBER, LAMP TYPE AND QUANTITY PER FIXTURE, BALLAST MANUFACTURER/CATALOG NUMBER, CONTRACTORS COMMENTS (C). EACH FIXTURE TYPE SHALL HAVE A FIXTURE SPEC SHEET THAT INCLUDES PHOTOMETRIC DATA, FOLLOWED BY A CUT SHEET OF THE LAMP WHICH IS FOLLOWED BY A CUT SHEET OF THE BALLAST. (D). PRODUCT DATA SHALL INCLUDE PHYSICAL DIMENSIONS, AND ANY SPECIAL MOUNTING DETAILS.
- THE SPECIFIED FIXTURES HAVE BEEN SELECTED FOR PERFORMANCE AND/OR AESTHETIC REASONS. "ALTERNATE MANUFACTURER" AND "OR APPROVED EQUAL" MEANS EQUIVALENT OR SUPERIOR IN PERFORMANCE, MATERIALS, WORKMANSHIP AND APPEARANCE TO THE SPECIFIED EQUIPMENT. FIXTURE SUBSTITUTIONS SHALL ONLY BE CONSIDERED IF: (A) THE SUBMITTING AGENT MUST SUBMIT IN WRITING THE REASONS THAT THIS FIXTURE SHOULD BE CONSIDERED AN EQUAL, TO BE CONSIDERED, THE ACCEPTANCE OR REJECTION OF ANY FIXTURE SUBSTITUTION SHALL BE SOLE DETERMINATION OF THE DESIGN TEAM AND BASED ON, BUT NOT LIMITED TO, OPTICAL PERFORMANCE, CONSTRUCTION QUALITY, AESTHETICS, SHAPE, SIZE, LAMPING FUNCTIONALITY, ACCESSORIES, LEAD TIMES, COSTS, AND FEATURES. (B) THE SUBSTITUTED FIXTURE SHALL BE ACCOMPANIED BY A CUT SHEET OF THE BASIS OF DESIGN FIXTURE FOR A SIDE BY SIDE COMPARISON. (C) IF REQUESTED BY THE DESIGN TEAM, A WORKING SAMPLE OF THE SUBSTITUTION FIXTURE MUST BE PROVIDED TO THE ARCHITECT, WITHIN 10 WORKING DAYS UPON REQUEST.
- SERIES FIXTURES SHALL SATISFY LENGTHS AS SHOWN ON THE DRAWINGS. FIXTURE LETTERS SHOWN ONCE ON A CONTINUOUS ROW OF FIXTURES SHALL BE TYPICAL FOR THAT ROW UNLESS OTHERWISE NOTED.
- ALL FIXTURES SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE, INDEPENDENT OF HUNG CEILING WITH ROD OR JACK CHAIN SUPPORT. STEM LENGTHS, STEM FINISHES AND STEM LOCATIONS OF ALL PENDANT FIXTURES TO BE VERIFIED AND CONFIRMED BY OWNER, ARCHITECT AND ENGINEER PRIOR TO ORDERING ITEMS.
- ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL TRANSFORMERS AND/OR DRIVERS REQUIRED TO OPERATE ALL LAMPS SPECIFIED, INCLUDING REMOTE DRIVERS AND/OR TRANSFORMERS AND THE ENCLOSURES FOR SAME. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF COMPATIBILITY BETWEEN LAMPS SPECIFIED, DRIVERS AND/OR TRANSFORMERS SPECIFIED, AND DIMMING AND OTHER CONTROL DEVICES SPECIFIED. NOTIFY ARCHITECT AND ENGINEER CONSULTANT OF ANY INCOMPATIBILITY PRIOR TO ORDERING EQUIPMENT.
- ELECTRICAL SUBCONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE COORDINATION OF ALL LIGHTING EQUIPMENT AND CONTROL DEVICES WITH CEILING AND WALL TYPES SPECIFIED PRIOR TO ORDERING LIGHTING EQUIPMENT.
- PRELIMINARY AMING OF ALL ADJUSTABLE LIGHTING EQUIPMENT SHALL BE DONE DURING INSTALLATION BY THE ELECTRICAL CONTRACTOR AS INDICATED ON THE LIGHTING PLANS /AIMING DIAGRAM, WHERE SUCH A DIAGRAM IS INCLUDED IN CONTRACT DOCUMENTS OR AS AN ADDENDUM. FINAL AMING OF ALL ADJUSTABLE LIGHTING EQUIPMENT SHALL BE DONE BY THE ELECTRICAL CONTRACTOR AS DIRECTED BY THE ARCHITECT.
- INSTALL CONES IN WALL WASHERS WITH CUTOUT(S) IN INNER REFLECTOR FACING WALL(S) TO BE LIT.
- UNLESS NOTED TO THE CONTRARY PROVIDE WHITE CEILING TRIMS FOR ALL RECESSED LUMINAIRES.
- WHERE CONTROL DEVICES WITH FINNED HEAT SINKS, SUCH AS LUTRON "NOVA" SERIES, ARE SPECIFIED, FINS SHALL NOT BE REMOVED TO MAKE DEVICES FIT BOXES MORE CONVENIENTLY. REFER TO MANUFACTURERS SPECIFICATIONS FOR THE NUMBER OF GANG BOXES REQUIRED TO ACCOMMODATE THE SPECIFIED EQUIPMENT WITHOUT BREAKING OFF FINS.
- RELAYS USED FOR CONTROL OF LIGHTING (IF ANY) SHALL BE LOCATED AND THE LOCATION SOUNDPROOFED SO AS TO BE INAUDIBLE FROM NORMALLY OCCUPIED AREAS WHEN ACTIVATED.
- TO ASSURE THE MINIMIZATION OF NOISE, FIXTURES MUST BE MOUNTED SECURELY TO THE SUPPORTING STRUCTURE, AND ALL LOOSE INTERNAL PARTS MUST BE SECURELY TIGHTENED BEFORE ACTIVATING CIRCUITS. WHERE TRANSFORMERS HAVE SELECTOR SWITCHES TO ALLOW USE OF VARIOUS WATTAGE LAMPS, THESE SWITCHES MUST BE SET TO THE WATTAGE OF THE SPECIFIED LAMP.

FLOOR PLAN DESIGNATION		LIGHTING CONTROL INTENT SCHEDULE	
SPACE TYPE	ROOM TYPE	EQUIPMENT TYPES	SEQUENCE:
A	JANITORS CLOSET	WT: WALL TIMER SWITCH	SEQUENCE: OVERHEAD LIGHTS ARE MANUALLY TURNED ON AND AUTOMATICALLY TURNED OFF WITH A WALL TIMER SWITCH. ON: LIGHTS ARE TURNED ON MANUALLY. ADJUST: LIGHTS FLASH A TIME OUT WARNING AT 5 MINUTES AND AT 1 MINUTE BEFORE TIME-OUT. OFF: LIGHTS ARE AUTOMATICALLY TURNED OFF AT 30 MINUTE PRESET TIME VIA TIMER SWITCH.
B	SMALL STORAGE SMALL BATHROOM	DLM RM CONTROLLER S1: DT VACANCY SENSOR LV1: DLM LV SWITCH	UTILIZE INTEGRAL FORM C RELAY FOR BAS OCCUPANCY OUTPUT. SEQUENCE: OVERHEAD LIGHTS ARE MANUALLY TURNED ON AND SHUT OFF WITH A VACANCY SENSOR. ON: LIGHTS ARE TURNED ON MANUALLY. OFF: LIGHTS SHUT-OFF WHEN NO MOTION IS DETECTED FOR 15 MINUTES OR MANUALLY TURNED OFF.
C	CORRIDOR/ CIRCULATION	DLM SYSTEM TIME RELAY LCP S3: OCCUPANCY SENSORS (AFTER HOURS OVER-RIDE)	UTILIZE INTEGRAL FORM C RELAY FOR BAS OCCUPANCY OUTPUT. SEQUENCE: TIMELOCK ON/OFF, (DAYTIME OPERATING HOURS); OCCUPANCY SENSOR OVERRIDE (AFTER HOURS); ON: LIGHTS ARE TURNED ON PER PROGRAMMED SCHEDULE. AFTER HOURS ON: OCCUPANCY SENSOR, AUTOMATICALLY TURNS LIGHTS ON. ADJUST: NONE. OFF: LIGHTS ARE AUTOMATICALLY TURNED OFF PER THE SCHEDULE. AFTER HOURS OFF: AFTER THE SPACE HAS BEEN VACANT FOR 30 MINUTES, THE LIGHTS WILL AUTOMATICALLY TURN OFF.
D	PERIMETER PRIVATE OFFICES Huddle Room	DLM RM CONTROLLER (DIM) S3: DT VACANCY SENSORS P1: DAYLIGHT SENSOR LV1: DLM LV SWITCH LMP1: PLUG RM CONTROLLER	UTILIZE LMRL-100 FORM C RELAY FOR BAS OCCUPANCY OUTPUT. SEQUENCE: MANUAL ON BY WALL SWITCH TO 50%, MANUAL OVERRIDE THROUGH WALL SWITCH TO 100%; AUTO OFF THROUGH VACANCY SENSOR; WITH OCCUPANCY AND 60% OF DAYLIGHT. DAYLIGHT SENSOR WILL DIM ARTIFICIAL LIGHTING. ADJUST: LIGHTS ARE MANUALLY ADJUSTED BY SWITCH AND AUTOMATICALLY DIMMED VIA SIGNALS FROM CEILING MOUNTED PHOTOCELLS. OFF: LIGHTS AND SWITCHED RECEPTACLES ARE AUTOMATICALLY TURNED OFF AFTER THE SPACE HAS BEEN VACANT FOR 30 MINUTES. LIGHTS MAY BE MANUALLY TURNED OFF.
E	DAMOS GLIDERES/ EXPLORER INTERIOR Huddle Room	DLM RM CONTROLLER S3: DT OCCUPANCY SENSORS LV1: DLM LV SWITCH LMP1: PLUG RM CONTROLLER	UTILIZE LMRL-100 FORM C RELAY FOR BAS OCCUPANCY OUTPUT. SEQUENCE: MANUAL ON BY WALL SWITCH TO 50%; MANUAL OVERRIDE THROUGH WALL SWITCH TO 100%; AUTO OFF THROUGH OCCUPANCY SENSOR. ON: LIGHTS ARE TURNED ON MANUALLY. ADJUST: MANUAL 50% OR 100% LIGHTS AND SWITCHED RECEPTACLES ARE AUTOMATICALLY TURNED OFF AFTER THE SPACE HAS BEEN VACANT FOR 30 MINUTES. LIGHTS MAY BE MANUALLY TURNED OFF.
F	LARGE RESTROOMS	DLM RM CONTROLLER S3: DT OCCUPANCY SENSOR	UTILIZE LMRL-100 FORM C RELAY FOR BAS OCCUPANCY OUTPUT. SEQUENCE: OCCUPANCY SENSOR ON/OFF TO 100%. LIGHTS ARE AUTOMATICALLY CONTROLLED IN THIS SPACE. ON: LIGHTS WILL AUTOMATICALLY TURN ON TO 100% WHEN THE SPACE BECOMES OCCUPIED. ADJUST: NONE. OFF: AFTER THE SPACE HAS BEEN VACANT FOR 430 MINUTES OF TIME, THE LIGHTS WILL AUTOMATICALLY TURN OFF WITH THE EXCEPTION OF DESIGNATED EMERGENCY LIGHTS.
H	DISTANCE LEARNING CLASSROOMS	DLM RM CONTROLLER (DIM) S3: DT OCCUPANCY SENSORS LV5: DLM LV DIMMER SWITCH INT: AV & FA INTERFACE RELAYS	UTILIZE INTEGRAL FORM C RELAY FOR BAS OCCUPANCY OUTPUT. SEQUENCE: LIGHTING OPERATED BY AN OCCUPANCY SENSOR IN CONJUNCTION WITH MANUAL DIMMING CONTROL. MANUAL ON BY PROGRAMMABLE SCENE CONTROLLER. OCCUPANCY SENSOR OFF. NUMBER OF ZONES TO BE DETERMINED AT A LATER DATE. ON: LIGHTS ARE MANUALLY TURNED ON BY SWITCH OR TO SCENE PRESET VIA SCENE SELECTION STATION. ADJUST: LIGHTS ARE MANUALLY ADJUSTED VIA A LOCAL DIMMER SWITCH OR PRESETS. LIGHTS ARE AUTOMATICALLY ADJUSTED VIA AV INTERFACE. LIGHTS OFF: AFTER THE SPACE HAS BEEN VACANT FOR 30 MINUTES, THE LIGHTS WILL AUTOMATICALLY TURN OFF.
I	MEETING ROOM GRADUATE ROOM	DLM RM CONTROLLER (DIM) S3: DT OCCUPANCY SENSORS LV5: DLM LV DIMMER SWITCH	UTILIZE LMRL-100 FORM C RELAY FOR BAS OCCUPANCY OUTPUT. SEQUENCE: OVERHEAD LIGHTS ARE MANUALLY TURNED ON BY DIMMER AND SHUT OFF WITH A VACANCY SENSOR. ON: LIGHTS ARE TURNED ON MANUALLY. ADJUST: LIGHTS ARE MANUALLY ADJUSTED VIA A LOCAL DIMMER SWITCH. OFF: AFTER THE SPACE HAS BEEN VACANT FOR 430 MINUTES, THE LIGHTS WILL AUTOMATICALLY TURN OFF.
J	DRY LAB	DLM RM CONTROLLER S3: DT OCCUPANCY SENSORS LV1: DLM LV ON/OFF SWITCH LMP1: PLUG RM CONTROLLER	UTILIZE INTEGRAL FORM C RELAY FOR BAS OCCUPANCY OUTPUT. SEQUENCE: AUTO ON BY OCCUPANCY SENSOR TO 50%, MANUAL OVERRIDE THROUGH DIMMER TO 100%; AUTO OFF BY OCCUPANCY SENSOR. ON: LIGHTS ARE TURNED ON MANUALLY. ADJUST: LIGHTS ARE MANUALLY ADJUSTED VIA A LOCAL DIMMER SWITCH. LIGHTS AND SWITCHED RECEPTACLES ARE AUTOMATICALLY TURNED OFF AFTER THE SPACE HAS BEEN VACANT FOR 30 MINUTES. LIGHTS MAY BE MANUALLY TURNED OFF.

REFER TO FLOOR PLANS FOR QUANTITIES OF AREAS. REFER TO SCHEMATIC LIGHTING CONTROL DETAILS FOR WIRING AND DEVICE TYPES. EXACT NUMBER OF DEVICES AS PER MANUFACTURERS REQUIREMENTS FOR QUANTITY OF FIXTURES AND TO ACHIEVE INDICATED SWITCHING ARRANGEMENTS.

ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL WIRING TO INTERCONNECT THE AV RELAYS INTO THE AV SYSTEM.  
ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL WIRING TO INTERCONNECT THE FA RELAYS INTO THE FIRE ALARM SYSTEM.



Client:

Department of Facilities Management  
This University was raised by the people of Newfoundland and Labrador in 1949. It is a testament to the fallen in the great wars, 1914-1918, 1939-1945, that in freedom of learning, their cause and sacrifice might not be forgotten.  
- Dedication plaque, Arts & Administration Building, St. John's Campus

Prepared For  
**MEMORIAL UNIVERSITY OF NEWFOUNDLAND**  
ST. JOHN'S, NEWFOUNDLAND

Architect Prime Consultant:

**FOUGERON MENCHENTON ARCHITECTURE**

Discipline:

**ELECTRICAL**

Sub-Consultant: Mechanical and Electrical

PROVINCE OF NEWFOUNDLAND AND LABRADOR

PERMIT HOLDER  
This Permit Allows  
**JEWER BAILEY CONSULTANTS INC.**  
MEMBER OF THE PROFESSION OF PROFESSIONAL ENGINEERS IN NEWFOUNDLAND AND LABRADOR  
Permit No. as issued by PEG 00540 which is valid for the year 2023.

Drawn: E.D. Checked: D.C.  
Designed: E.D. Approved: D.C.  
Consultants Project No.  
**JBC-22-C-106**  
Professional Stamp & Permit

- Notes:
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2	ISSUED FOR CONSTRUCTION	2023-02-13
1	ISSUED FOR ADDENDUM #2	2022-12-14
0	ISSUED FOR TENDER	2022-12-01
D	ISSUED FOR 80% REVIEW	2022-09-30
C	ISSUED FOR 30% REVIEW	2022-09-08
B	ISSUED FOR REVIEW	2022-08-19
A	ISSUED FOR 50% DD	2022-08-09
No.	Revisions	MM/DD/YY

Drawing Nomenclature

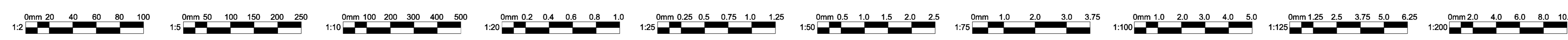
Detail/Section No. **3**  
**A-1** ← Dwg. No. where detailed

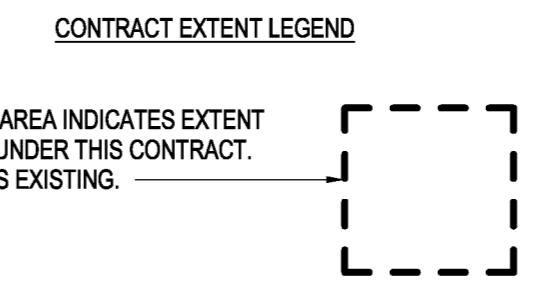
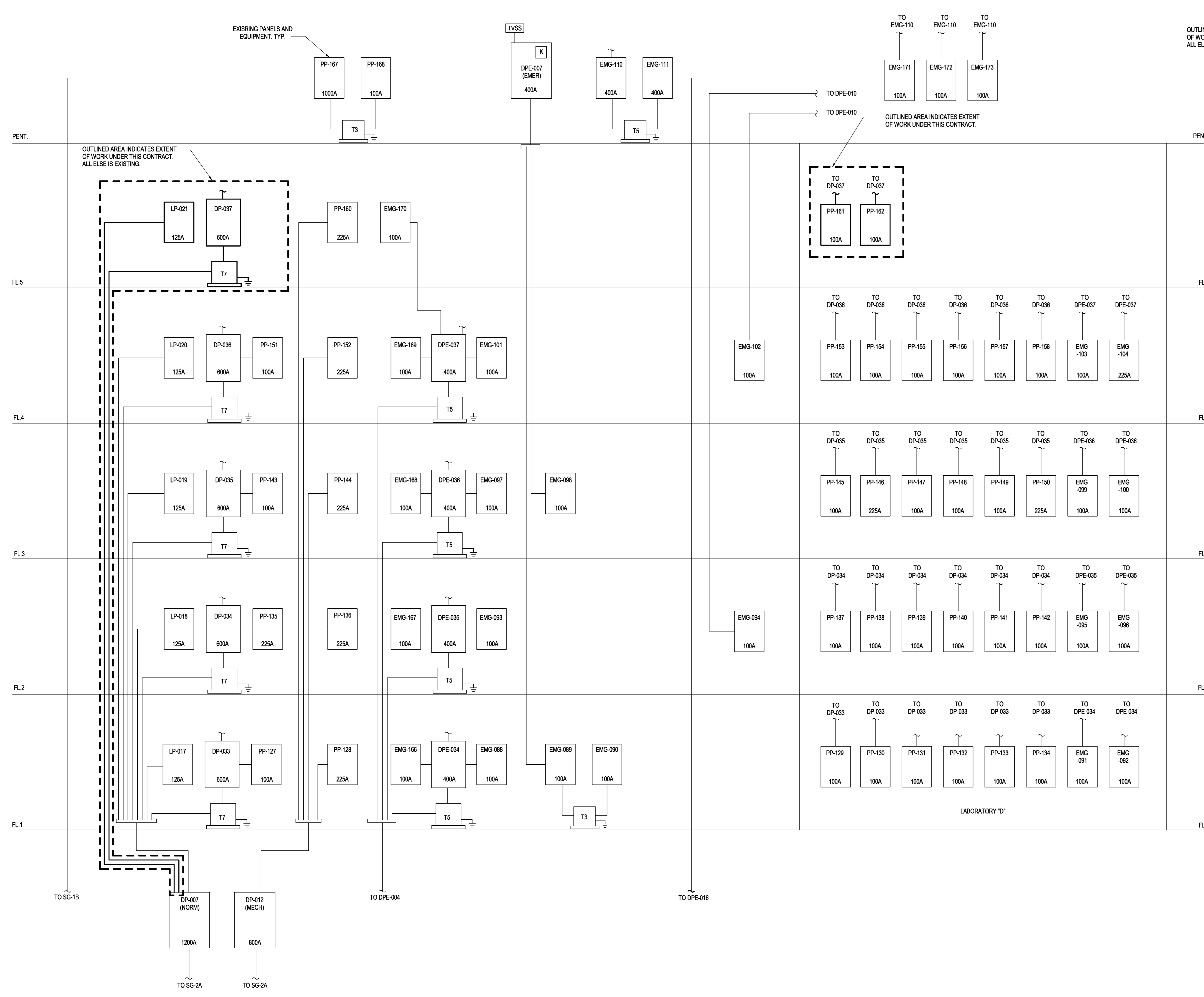
PROJECT TITLE  
**OFI FIT UP, PAV-A, LEVEL 5**

Client's Project No.: CSF-001-21

DRAWING TITLE  
**ELECTRICAL SCHEDULES**

SCALE 1:1  
DRAWING NO.  
DATE 2023-02-13  
REVISION NO. 2  
**E602**  
2/10/2023 4:14:19 PM

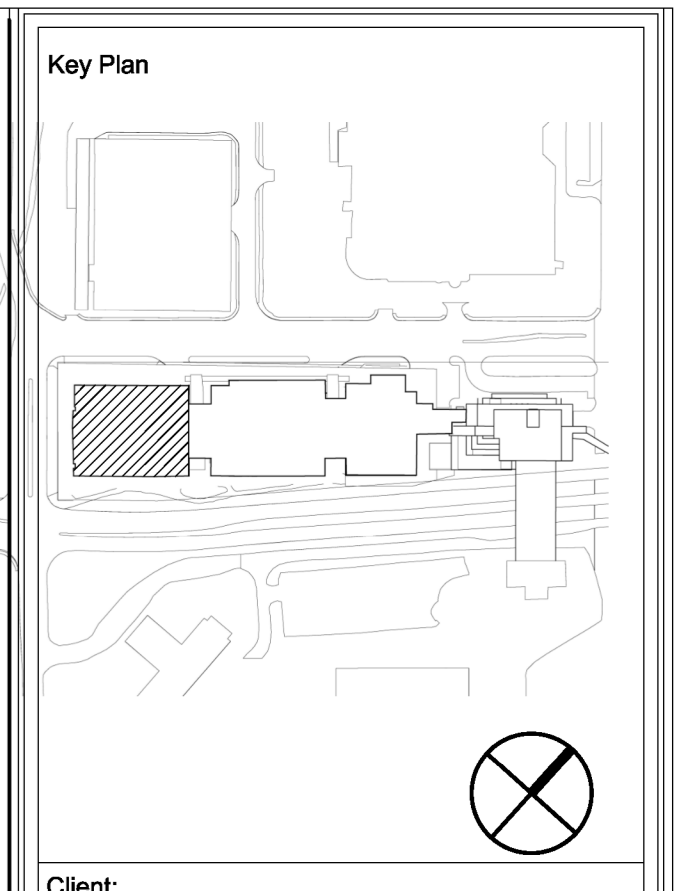
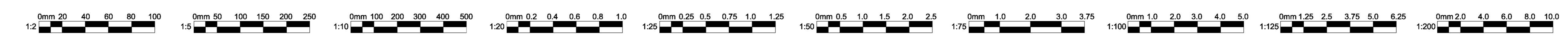




- NOTES:**
1. ALL FEEDERS TO BE COPPER UNLESS NOTED OTHERWISE.
  2. SEE PANEL SCHEDULE FOR REQUIRED BRANCH CIRCUIT BREAKERS.

MEZZANINE MEZZANINE

**1 SINGLE LINE DIAGRAM - STACK CORE 'D'**  
E701 N.T.S.



Client:

**MEMORIAL UNIVERSITY**

Department of Facilities Management  
This University was raised by the people of Newfoundland as a memorial to the fallen in the great wars, 1914-1918, 1939-1945, that in freedom of learning, their cause and sacrifice might not be forgotten.  
- Dedication plaque, Arts & Administration Building, St. John's Campus

Prepared For  
**MEMORIAL UNIVERSITY OF NEWFOUNDLAND**  
ST. JOHN'S, NEWFOUNDLAND

Architect Prime Consultant:

**FOUGERE MENCHENTON ARCHITECTURE**

Discipline: **ELECTRICAL**

Sub-Consultant: Mechanical and Electrical

**JBC JEWELLER & BAILEY CONSULTANTS**

PROVINCE OF NEWFOUNDLAND AND LABRADOR

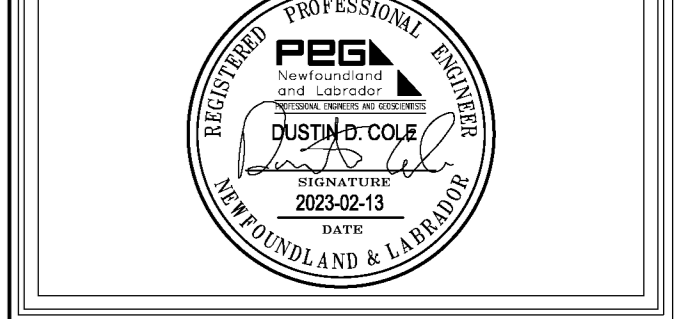
PERMIT HOLDER  
This Permit Allows

**JBC JEWELLER & BAILEY CONSULTANTS**

To practice Professional Engineering in Newfoundland and Labrador  
Permit No. as issued by PEG 100540 which is valid for the year 2023.

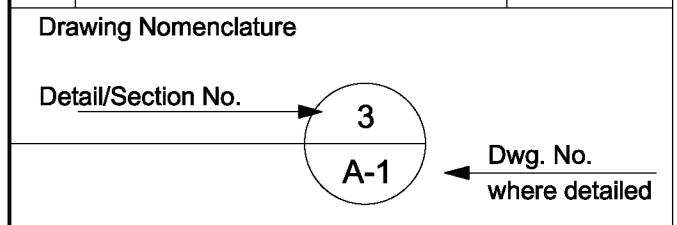
Drawn:	E.D.	Checked:	D.C.
Designed:	E.D.	Approved:	D.C.

Consultants Project No.  
**JBC-22-C-106**



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No.	Revisions	MM/DD/YY




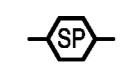

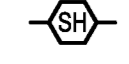

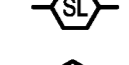















PROJECT TITLE  
**OFI FIT UP, PAV-A, LEVEL 5**

Client's Project No.: CSF-001-21

DRAWING TITLE  
**SINGLE LINE DIAGRAM - STACK CORE 'D'**

SCALE N.T.S.	DRAWING NO. <b>E701</b>
DATE 2023-02-13	REVISION NO. 2

**FIRE ALARM SYSTEM**

-  ADDRESSABLE FIRE ALARM PULL STATION
-  FIRE ALARM SPEAKER - WALL MOUNTED
-  FIRE ALARM SPEAKER - CEILING MOUNTED
-  STROBE/SPEAKER FIRE ALARM SIGNAL - WALL MOUNTED
-  STROBE/SPEAKER FIRE ALARM SIGNAL - CEILING MOUNTED
-  STROBE STYLE FIRE ALARM SIGNAL - WALL MOUNTED
-  STROBE STYLE FIRE ALARM SIGNAL - CEILING MOUNTED
-  ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR
-  ADDRESSABLE DUCT TYPE SMOKE DETECTOR
-  ADDRESSABLE HEAT DETECTOR
-  REMOTE ALARM INDICATOR
-  END OF LINE RESISTOR
-  FIRE FIGHTERS TELEPHONE HANDSET
-  FAULT ISOLATION MODULE
-  SPRINKLER FLOW SWITCH
-  VALVE MONITOR
-  ADDRESSABLE FIRE ALARM OUTPUT CONTROL MODULE
-  ADDRESSABLE INPUT MODULE SUITABLE FOR T-TAPPING OF ADDRESSABLE LOOP
-  AIR SAMPLING SMOKE DETECTION SYSTEM SAMPLING POINT HEAD
-  ELECTROMAGNETIC DOOR HOLD OPEN DEVICE
-  SMOKE FIRE DAMPER - CONNECTION TO FIRE ALARM SYSTEM

**FIRE ALARM GENERAL NOTES**

1. SCOPE
  - A. THE WORK UNDER THIS SECTION INCLUDES ALL LABOUR, MATERIALS, FEES AND ACTIVITIES NECESSARY TO INSTALL, TEST & COMMISSION A FULLY FUNCTIONAL AND CODE COMPLIANT FIRE ALARM & SIGNALING SYSTEM.
  - B. SUBMITTALS SHALL BE PREPARED AND FORWARDED TO THE ARCHITECT/ENGINEER FOR REVIEW, SUCCESSFULLY COMPLETING THE SUBMITTAL AND REVIEW PROCESS OF FIRE ALARM SYSTEM PRODUCT DATA, SHOP DRAWINGS, CALCULATIONS, AS-BUILT DRAWINGS AND TEST CERTIFICATES SHALL BE A PREREQUISITE TO ISSUING FINAL ENGINEER APPROVAL CERTIFICATION FOR OCCUPANCY.
  - C. THE WORK SHALL BE DESCRIBED DIRECTLY BY THESE DRAWINGS AND RELATED DOCUMENTS UNDER THIS SECTION AND AS AFFECTED BY RELATED DOCUMENTS NOT EXCLUSIVE TO THE WORK OF THIS SECTION.
2. PURPOSE OF ENGINEERING DRAWINGS
  - A. THE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE INTENDED FOR PURPOSES OF OBTAINING A BUILDING PERMIT AND AS THE BASIS OF DESIGN FOR PREPARATION OF DETAILED SHOP DRAWINGS. THE DRAWINGS ARE NOT INTENDED TO SHOW EXACT LOCATIONS, BUT TO DEMONSTRATE THE CONFIGURATION OF MAJOR SYSTEM COMPONENTS AND APPROXIMATE APPLIANCE AND DEVICE LOCATIONS. FIELD VERIFY LOCATIONS OF ALL DEVICES, APPLIANCES AND SYSTEM COMPONENTS.
3. RELATED DOCUMENTS
  - A. ARCHITECTURAL, STRUCTURAL & ENGINEERING DRAWINGS & SPECIFICATIONS
  - B. OWNER AND/OR TENANT CONSTRUCTION STANDARDS OF PRACTICE
  - C. FIRE ALARM SPECIFICATIONS
4. CODES & STANDARDS
  - A. BUILDING CODE: 2015 NATIONAL BUILDING CODE OF CANADA
  - B. NATIONAL FIRE CODE OF CANADA
5. QUALITY ASSURANCE
  - A. PRODUCTS: ULC LISTED AND/OR FM APPROVED FOR USE WITH FIRE ALARM SYSTEMS
  - B. INSTALLERS: LICENSED IN GOOD STANDING AS FIRE ALARM SYSTEMS INSTALLERS IN CANADA.
6. WARRANTY
  - A. WARRANTY WORK OF THIS SECTION IN WRITING FOR ONE YEAR FROM THE DATE OF OWNERS ACCEPTANCE OF CERTIFICATE OF SUBSTANTIAL COMPLETION. REPAIR OR REPLACE DEFECTIVE MATERIALS, EQUIPMENT, WORKMANSHIP AND INSTALLATION THAT DEVELOP WITHIN THE PERIOD, PROMPTLY AND TO OWNERS SATISFACTION AND CORRECT DAMAGE CAUSED IN MAKING NECESSARY REPAIRS AND REPLACEMENTS UNDER GUARANTEE WITH CONTRACT PRICE.
7. CONDUIT
  - A. ALL CONDUIT FOR FIRE ALARM SYSTEMS SHALL BE PAINTED RED PRIOR TO BEING INSTALLED.

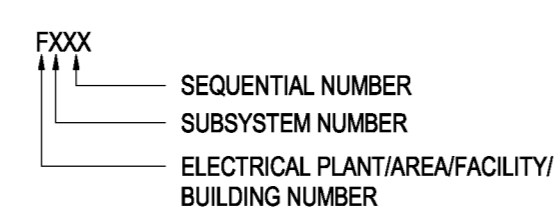
**CONDUIT SIZE DESIGNATION**

INCHES	METRIC DESIGNATOR
1/2	16mm
3/4	21mm
1	27mm
1 1/4	35mm
1 1/2	41mm
2	53mm
2 1/2	63mm
3	78mm
3 1/2	91mm
4	103mm
5	128mm
6	153mm
8	203mm

**DETAIL NUMBERING SYSTEM**





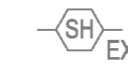

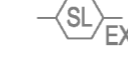


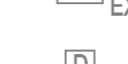







**DRAWING NUMBERING SYSTEM**



**SUBSYSTEM NUMBER**

- 00X LEGEND
- 10X DEMOLITION
- 30X FIRE ALARM PLANS
- 60X FIRE ALARM ZONES/DISPLAY GRAPHIC

**DEMOLITION FIRE ALARM SYSTEMS**

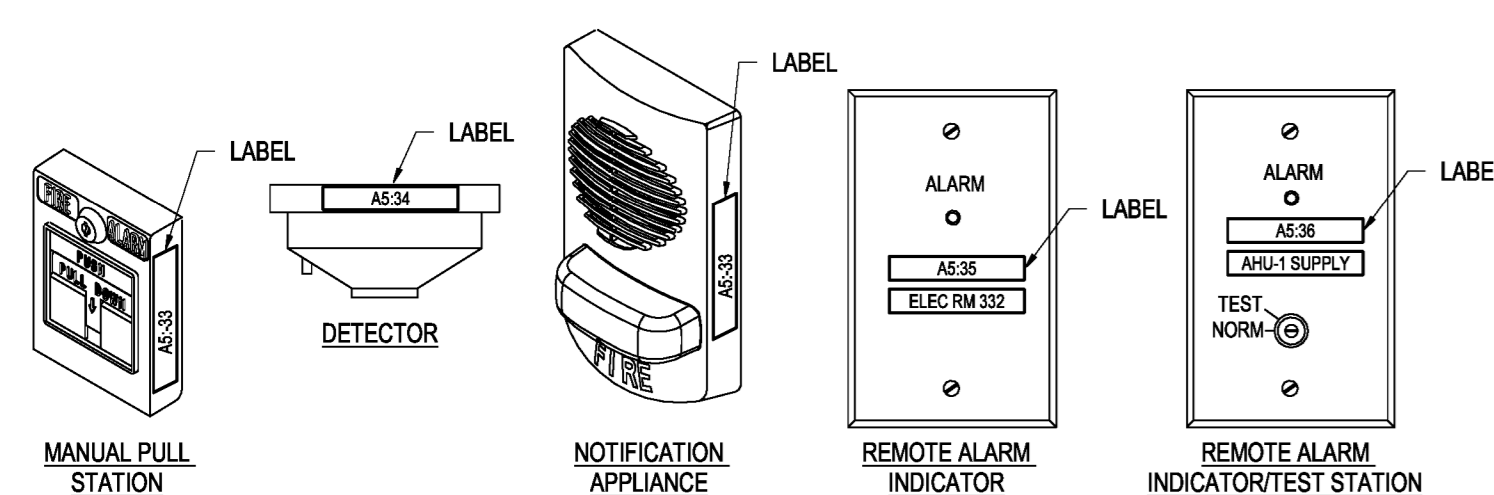
-  EXISTING FIRE ALARM HORN SIGNAL - SUBSCRIPT INDICATES PHASE STATUS.
-  EXISTING ADDRESSABLE FIRE ALARM PULL STATION - SUBSCRIPT INDICATES PHASE STATUS.
-  EXISTING WALL MOUNTED STROBE/HORN FIRE ALARM SIGNAL - SUBSCRIPT INDICATES PHASE STATUS.
-  EXISTING CEILING MOUNTED STROBE/SPEAKER FIRE ALARM SIGNAL - SUBSCRIPT INDICATES PHASE STATUS.
-  EXISTING WALL MOUNTED STROBE STYLE FIRE ALARM SIGNAL - SUBSCRIPT INDICATES PHASE STATUS.
-  EXISTING CEILING MOUNTED STROBE STYLE FIRE ALARM SIGNAL - SUBSCRIPT INDICATES PHASE STATUS.
-  EXISTING ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR - SUBSCRIPT INDICATES PHASE STATUS.
-  EXISTING ADDRESSABLE DUCT TYPE SMOKE DETECTOR - SUBSCRIPT INDICATES PHASE STATUS.
-  EXISTING ADDRESSABLE HEAT DETECTOR - SUBSCRIPT INDICATES PHASE STATUS.
-  EXISTING REMOTE ALARM INDICATOR - SUBSCRIPT INDICATES PHASE STATUS.
-  EXISTING AIR SAMPLING SMOKE DETECTION SYSTEM SAMPLING POINT HEAD - SUBSCRIPT INDICATES PHASE STATUS.
-  EXISTING ELECTROMAGNETIC DOOR HOLD OPEN DEVICE - SUBSCRIPT INDICATES PHASE STATUS.
-  EXISTING FIRE FIGHTERS TELEPHONE HANDSET - SUBSCRIPT INDICATES PHASE STATUS.
-  EXISTING SPRINKLER FLOW SWITCH - SUBSCRIPT INDICATES PHASE STATUS.
-  EXISTING VALVE MONITOR - SUBSCRIPT INDICATES PHASE STATUS.

**LIST OF SUBSCRIPTS**

- ER INDICATES EXISTING TO BE REMOVED
- EX INDICATES EXISTING TO REMAIN
- NL INDICATES EXISTING MOUNTED IN NEW LOCATION
- RL INDICATES EXISTING TO BE RELOCATED

**NOTES:**

1. PROVIDE A LABEL ON ALL FIRE ALARM DEVICES. UTILIZE CLEAR USE SELF-ADHESIVE VINYL LABELS WITH LETTERING EASILY VISIBLE WITHOUT A LADDER.
2. LABEL ALL DEVICES WITH ADDRESSZONE INFORMATION AND WHERE APPLICABLE EQUIPMENT MONITORED (I.E. AHU'S SUPPLY).



**2 FIRE ALARM DEVICE LABEL REQUIREMENTS**

F001 N.T.S.

**LIST OF DRAWINGS**

- F001 FIRE ALARM LEGEND
- F101 DEMOLITION FIRE ALARM SYSTEM FLOOR PLAN - LEVEL 5, PAV-A
- F301 REVISED FIRE ALARM FLOOR PLAN - LEVEL 5, PAV-A
- F501 FIRE ALARM DEMOLITION/REVISED ZONES, GRAPHIC DISPLAY



Key Plan

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Prepared For  
**MEMORIAL UNIVERSITY OF NEWFOUNDLAND**  
 ST. JOHN'S, NEWFOUNDLAND

Architect Prime Consultant:

**FOUGERE MENCHENTON ARCHITECTURE**

Discipline:  
**ELECTRICAL**

Sub-Consultant: Mechanical and Electrical

**Jbc** JEWELLER CONSULTANTS  
 CONSULTANTS

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 Permit No. as issued by PEG 80540 which is valid for the year 2023.

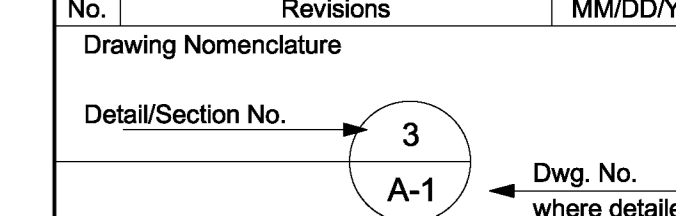
Drawn: E.D. Checked: D.C.  
 Designed: E.D. Approved: D.C.

Consultants Project No.  
**JBC-22-C-106**

Professional Stamp & Permit

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No.	Revisions	MM/DD/YY
2	ISSUED FOR CONSTRUCTION	2023-02-13
1	ISSUED FOR ADDENDUM #2	2022-12-14
0	ISSUED FOR TENDER	2022-12-01
D	ISSUED FOR 80% REVIEW	2022-09-30
C	ISSUED FOR 30% REVIEW	2022-09-08
B	ISSUED FOR REVIEW	2022-08-19
A	ISSUED FOR 50% DD	2022-08-09

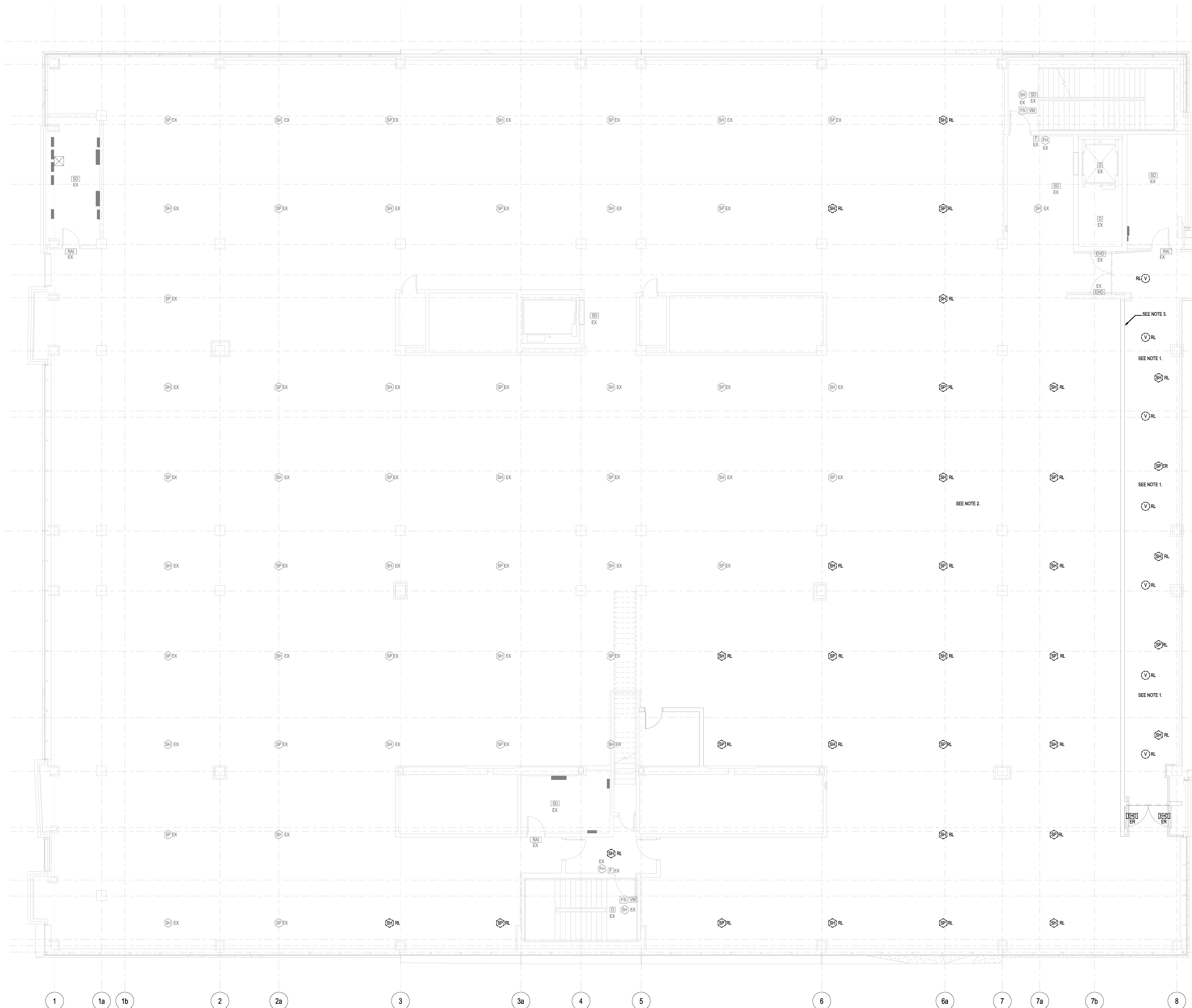


PROJECT TITLE  
**OFI FIT UP, PAV-A, LEVEL 5**

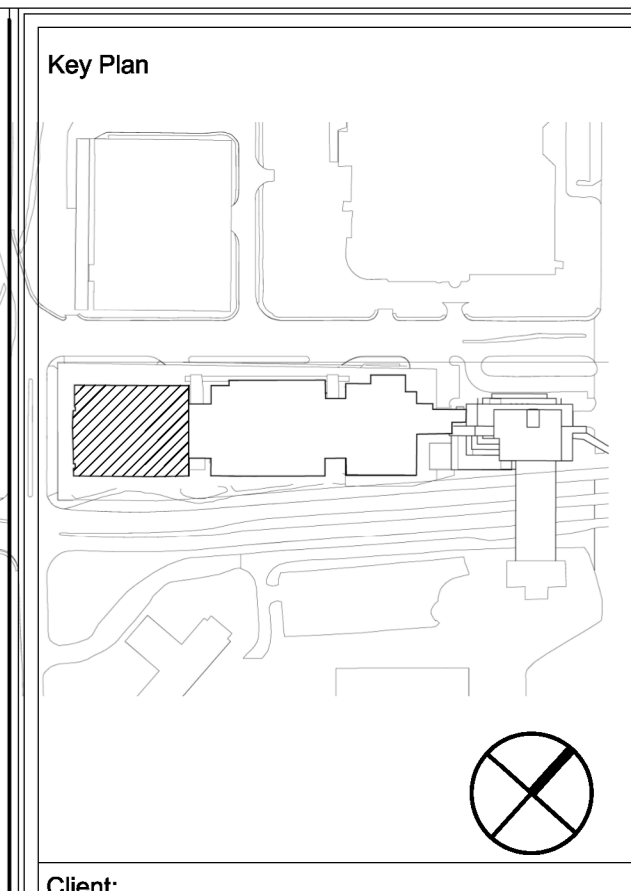
Client's Project No.: CSF-001-21

DRAWING TITLE  
**FIRE ALARM LEGEND**

SCALE	DRAWING NO.
As Indicated	
DATE 2023-03-13	<b>F001</b>
REVISION NO. 2	2/10/2023 4:14:23 PM



- NOTES**
- EXISTING FIRE ALARM DEVICES INSTALLED IN T-BAR CEILING IN THIS CORRIDOR TO BE REMOVED AND STORED IN A SECURE LOCATION. ELECTRICAL CONTRACTOR TO DISCONNECT FIRE ALARM DEVICES AND REMOVE EXISTING CONDUIT AND WIRING BACK TO THE NEAREST JUNCTION BOX IN CEILING. (NOTE: THESE DEVICES WILL BE REINSTALLED IN THE NEW CEILING. SEE REVISED LAYOUT.)
  - TYPICAL EXISTING FIRE ALARM STROBESPEAKER DEVICES AND SPEAKER ONLY DEVICES TO BE REMOVED AND STORED IN A SECURE LOCATION. REMOVE EXISTING CONDUIT AND WIRING BACK TO THE NEAREST JUNCTION BOX IN CEILING. (NOTE: THESE DEVICES WILL BE REINSTALLED IN NEW LOCATIONS IN THE REVISED LAYOUT. ANY DEVICES NOT REUSED IN THE NEW LAYOUT SHALL BE TURNED OVER TO THE OWNER.)
  - EXISTING FIRE ALARM JUNCTION BOXES AND END OF LINE RESISTOR DEVICES ARE LOCATED ABOVE THE CEILING IN THIS APPROXIMATE AREA. ELECTRICAL CONTRACTOR TO TEMPORARILY SUPPORT BOXES/DEVICES WHILE DEMOLITION OF WALL TAKES PLACE. DISCONNECT, REMOVE, RELOCATE AND REINSTALL BOXES/DEVICES IN LOCATION OF NEW WALL. PROVIDE CONDUIT AND WIRING AS NECESSARY TO REINSTALL DEVICES IN NEW WALL LOCATION. MAKE FINAL CONNECTIONS AND COMPLETE TESTING OF CIRCUITS TO ENSURE PROPER WORKING ORDER.



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Architect Prime Consultant:

**FOUGERE MENCHENTON ARCHITECTURE**

Discipline:  
**ELECTRICAL**

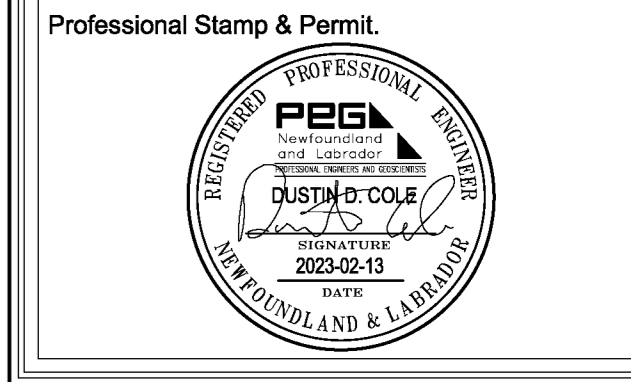
Sub-Consultant: Mechanical and Electrical

**JBC** JEWER BAILEY CONSULTANTS  
 CONSULTANTS

PROVINCE OF NEWFOUNDLAND AND LABRADOR  
**PERMIT HOLDER**  
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**JEWER BAILEY CONSULTANTS S.L.C.**  
 M.B.C. [Signature]  
 To practice Professional Engineering in Newfoundland and Labrador  
 Permit No. as issued by PEG 00540 which is valid for the year 2023.

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Designed:	E.D.	Approved:	D.C.

Consultants Project No.  
**JBC-22-C-106**



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2	ISSUED FOR CONSTRUCTION	2023-02-13
1	ISSUED FOR ADDENDUM #2	2022-12-14
0	ISSUED FOR TENDER	2022-12-01
A	ISSUED FOR 80% REVIEW	2022-09-30
No.	Revisions	MMDDYY

Drawing Nomenclature  
 Detail/Section No. **3** / **A-1** ← Dwg. No. where detailed

PROJECT TITLE  
**OFI FIT UP, PAV-A, LEVEL 5**

Client's Project No.: CSF-001-21

DRAWING TITLE  
**DEMOLITION FIRE ALARM SYSTEM FLOOR PLAN - LEVEL 5, PAV-A**

SCALE  
 1:75

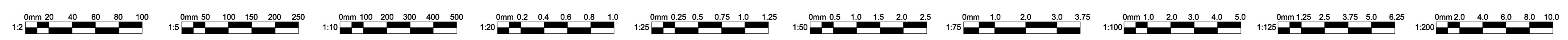
DATE  
 2023-02-13

REVISION NO.  
 2

DRAWING NO.  
**F101**

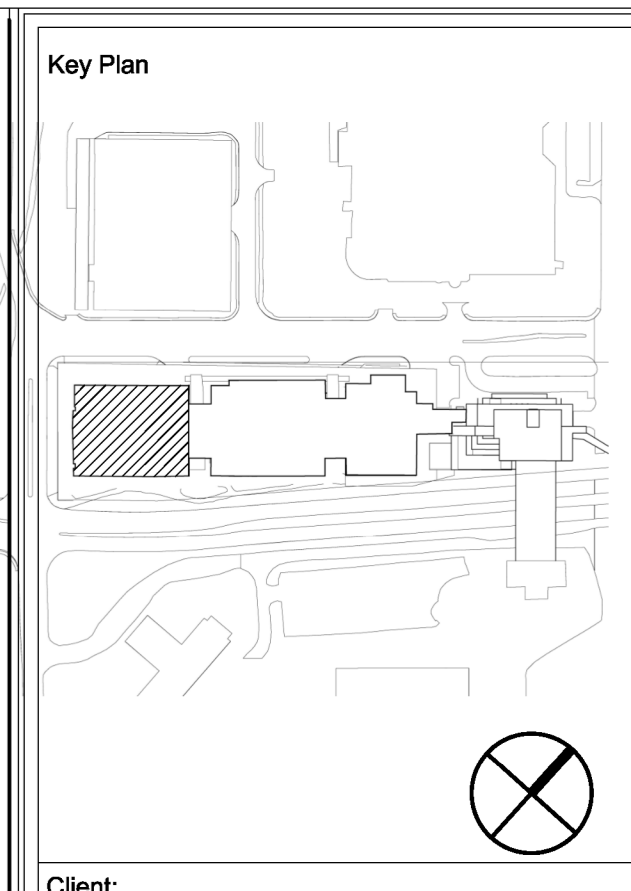
2/10/2023 4:14:28 PM

**1** DEMOLITION FIRE ALARM SYSTEM FLOOR PLAN - LEVEL 5 PAV-A SHELLED SPACE  
 F101 1:75





- NOTES:**
- EXISTING FIRE ALARM DEVICES IN THIS CORRIDOR TO BE REINSTALLED IN NEW CEILING IN LOCATIONS INDICATED. RECONNECT DEVICES TO SAME POWER SOURCE BY EXTENDING CIRCUIT TO FIRE ALARM DEVICES AS REQUIRED. ELECTRICAL CONTRACTOR TO PROVIDE CONDUIT AND WIRING FROM NEAREST EXISTING JUNCTION BOX AND MAKE FINAL CONNECTIONS.
  - THE NOTIFICATION DEVICES IN THE THREE WORKROOMS SHALL BE NEW, TYPE TO MATCH EXISTING, AND CONNECTED INTO THE EXISTING FIRE ALARM SYSTEM.
  - THE FIRE SMOKE DAMPERS SHALL BE CONNECTED TO THE FIRE ALARM SYSTEM AND TIED TO THE SMOKE CONTROL SYSTEM. CONNECT TO THE WEST ATRIUM LEVEL 5 DAMPER CONTROL AND MONITORING CIRCUIT. EACH INDIVIDUAL DAMPER MUST BE MONITORED FOR OPEN AND CLOSE STATUS, AND EACH DAMPER MUST BE GROUP AND INDIVIDUAL CONTROLLED FOR OPEN AND CLOSE.



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 ST. JOHN'S, NEWFOUNDLAND

Architect Prime Consultant:

**FOUGER MENCHENTON ARCHITECTURE**

Discipline:  
**ELECTRICAL**

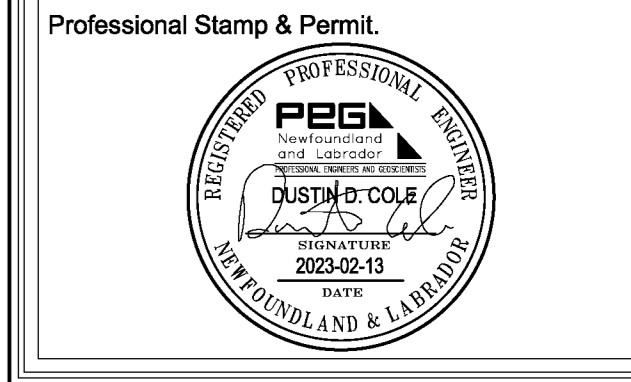
Sub-Consultant: Mechanical and Electrical

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Consultants Project No.  
**JBC-22-C-106**



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D	ISSUED FOR 80% REVIEW	2022-09-30
C	ISSUED FOR 30% REVIEW	2022-09-08
B	ISSUED FOR REVIEW	2022-08-10
A	ISSUED FOR 50% DD	2022-08-09

Drawing Nomenclature  
 Detail/Section No. **3** / **A-1** ← Dwg. No. where detailed

PROJECT TITLE  
**OFI FIT UP, PAV-A, LEVEL 5**

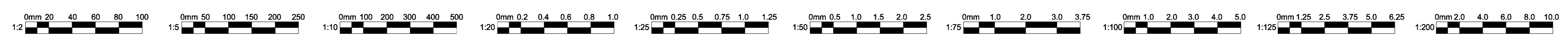
Client's Project No.: CSF-001-21

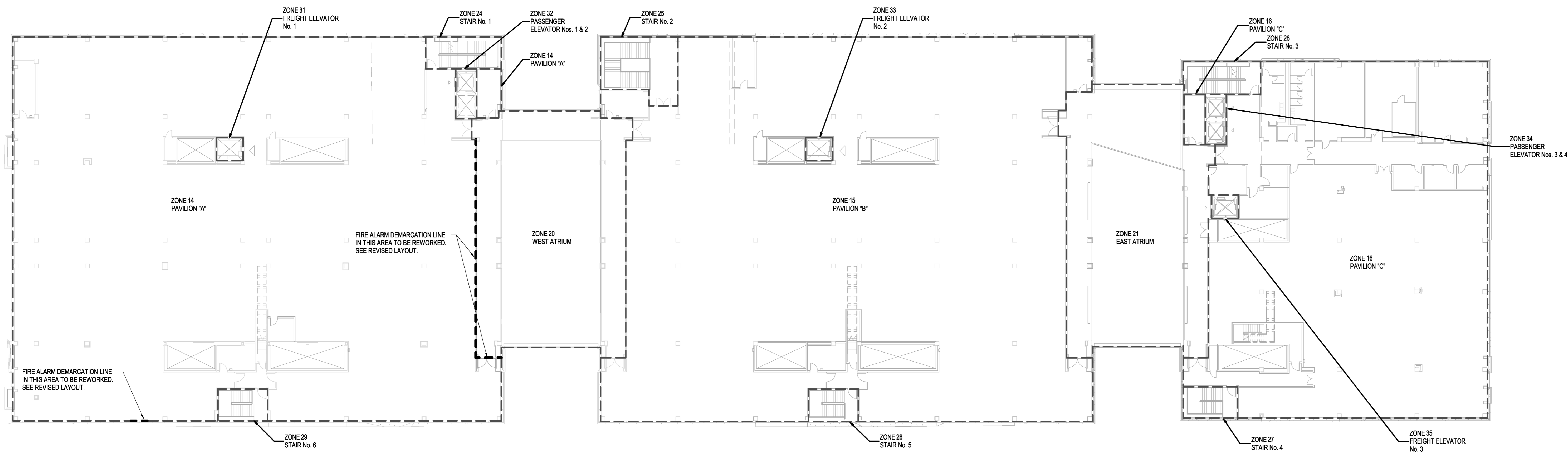
DRAWING TITLE  
**REVISED FIRE ALARM FLOOR PLAN - LEVEL 5, PAV-A**

SCALE: 1:75  
 DATE: 2023-02-13  
 REVISION NO.: 2

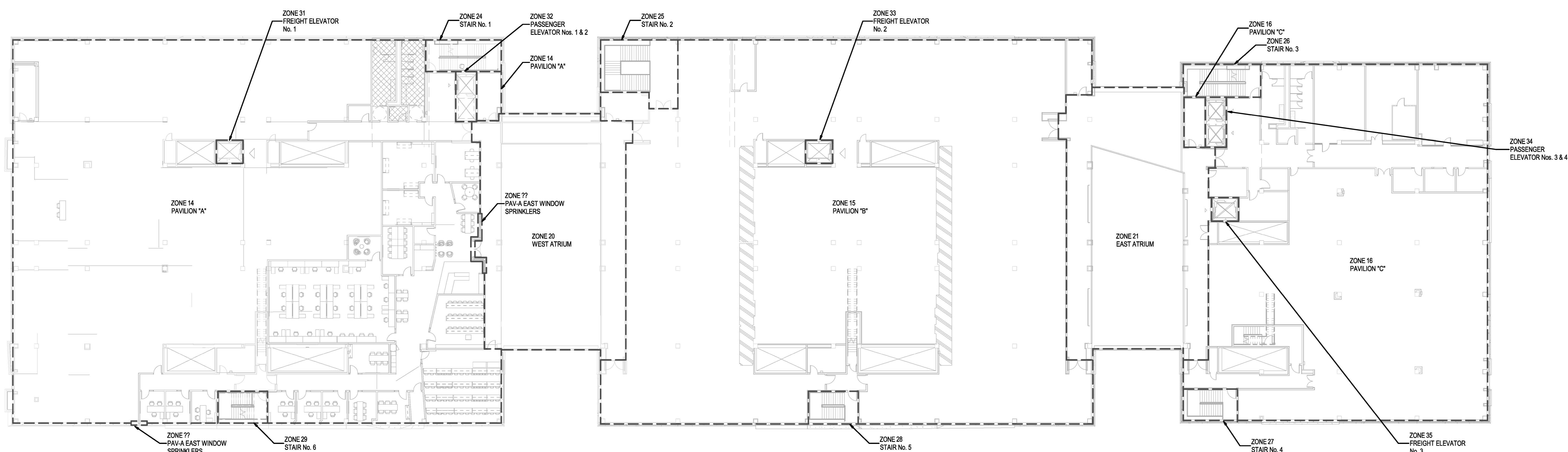
DRAWING NO.: **F301**  
 2/10/2023 4:14:30 PM

**1 REVISED FIRE ALARM SYSTEM FLOOR PLAN - LEVEL 5 PAV-A**  
 F301 1:75



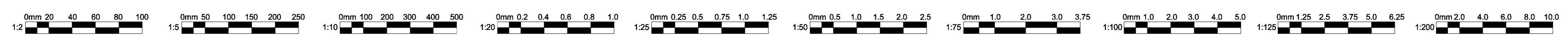


**2 FIRE ALARM DEMOLITION GRAPHIC DISPLAY - LEVEL 5**  
F501 N.T.S.



**1 FIRE ALARM REVISED GRAPHIC DISPLAY - LEVEL 5**  
F501 N.T.S.

- NOTES:**
1. THERE ARE THREE(3) EXISTING PASSIVE DISPLAY GRAPHICS IN THE BUILDING CONTRACTOR SHALL MODIFY THE EXISTING DISPLAYS BY ADJOINING THE NEW ZONE TO THEM OR ALTERNATIVELY MAY REPLACE THEM IN FULL WITH NEW. IF NEW ARE BEING INSTALLED THEY SHALL MATCH THE EXISTING IN STYLE AND SIZE.
  2. THE EXISTING FIRE ALARM SYSTEM SHALL BE RE-PROGRAMMED TO ACCOMMODATE THE ADDITION OF THE NEW ZONE.
  3. UPON COMPLETION OF ALL FIRE ALARM AND SMOKE CONTROL SYSTEM WORK, PROVIDE SYSTEM VERIFICATION REPORT IN ACCORDANCE WITH CANULC-SS37.
  4. CONTRACTOR TO COORDINATE WITH EXISTING FIRE ALARM GRAPHIC AND FIRE ALARM SYSTEM AND ASSIGN NEW ZONES TO NEXT AVAILABLE ZONE NUMBER.



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**FOUGERE MENCHENTON ARCHITECTURE**

Discipline:  
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Sub-Consultant: Mechanical and Electrical

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CONSULTING ENGINEERS ARCHITECTS

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Consultants Project No.  
**JBC-22-C-106**

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0	ISSUED FOR ADDENDUM #2	2022-12-14
No.	Revisions	MM/DD/YY

Drawing Nomenclature  
Detail/Section No. **3**  
A-1 ← Dwg. No. where detailed

PROJECT TITLE  
**OFI FIT UP, PAV-A, LEVEL 5**

Client's Project No.: CSF-001-21

DRAWING TITLE  
**FIRE ALARM DEMOLITION/REVISED ZONES, GRAPHIC DISPLAY**

SCALE N.T.S.	DRAWING NO. <b>F501</b>
DATE 2023-02-13	
REVISION NO. 1	2/10/2023 4:14:38 PM

TECHNOLOGY JUNCTION BOX LEGEND											
TYPE		FUNCTION	DIMENSIONS			ENCLOSURE DESCRIPTION	ENCLOSURE MAKE & MODEL	MOUNTING STYLE	REFERENCE DETAIL	NOTES	LEVEL
TAG	MOUNTING		HEIGHT (mm)	WIDTH (mm)	DEPTH (mm)						
	WALL	PODIUM AV BOX	76	51	54						
J1	WALL	BACK BOX TWO (2) 1-GANG AND ONE (1) 4-GANG OPENINGS IN 2 ROWS w/KOS	315	315	101	FSR WB-K2-GMG	500mm A.F.F. - FLUSH (UNLESS INDICATED OTHERWISE)			COORDINATE FINAL LOCATION WITH MUN-CTL.	LEVEL 5
J2(NB,P4)	WALL	FLAT PANEL DISPLAY WALL BOX ASSEMBLY	250	360	100	FSR PWB-270	1700mm A.F.F. - FLUSH (UNLESS INDICATED OTHERWISE)	3.4.5 / T701			LEVEL 5
J3	WALL	AV I/O PANEL - LARGE	200	250	100	HOFFMAN A-SE10084NK	500mm A.F.F. - FLUSH	--			LEVEL 5
J4	WALL	EQUIPMENT RACK PULL BOX	300	300	100	HOFFMAN A-SE12124NK	500mm A.F.F. - FLUSH	--			LEVEL 5
J5	WALL	AV I/O PANEL - SMALL	120	120	50	RACO 258, 259 OR 265	500mm A.F.F. - FLUSH (UNLESS INDICATED OTHERWISE)	--			LEVEL 5
J6	WALL	VOLUME CONTROL PANEL	120	120	50	RACO 258, 259 OR 265	500mm A.F.F. - FLUSH	--			LEVEL 5
J7	WALL	WALL MOUNTED CAMERA	120	120	50	RACO 258, 259 OR 265	2135mm A.F.F. - FLUSH (UNLESS INDICATED OTHERWISE)	--		SUPPLY AND INSTALL 27mm CONDUIT CONSEALED IN WALL FROM BOX TO AV BOX BEHIND FLAT PANEL DISPLAY.	LEVEL 5
J8	WALL	PROJECTION SCREEN CONTROL SWITCH (DUAL)	120	120	50	RACO 258, 259 OR 265	1200mm A.F.F. - FLUSH	--			LEVEL 5
J9	WALL	ROOM SCHEDULER	120	120	50	RACO 258, 259 OR 265	1200mm A.F.F. - FLUSH	--			LEVEL 5
J10	WALL	PROJECTION SCREEN CONTROL SWITCH (SINGLE)	100	50	50	RACO 674	1200mm A.F.F. - FLUSH	--			LEVEL 5
J11	CEILING	CEILING LOUDSPEAKER PULL BOX I VIDEO CAMERA	120	120	50	RACO 258, 259 OR 265	500mm ABOVE LAY-INGYPSUM CEILING	6 / T701			LEVEL 5
J12	CEILING	PROJECTION SCREEN CONTROL BOX	100	190	90	DRAPER LVC-11 CONTROL MODULE	COORDINATE W/ PROJECTION SCREEN	--			LEVEL 5
J13	CEILING	WIRELESS MICROPHONE/HEARING ASSIST PULL BOX	120	120	50	RACO 258, 259 OR 265	500mm ABOVE LAY-INGYPSUM CEILING	--			LEVEL 5
J14	CEILING	CONDUIT CONSOLIDATION PULL BOX	410	410	100	HOFFMAN A-SE1016X4NK	500mm ABOVE LAY-INGYPSUM CEILING	--			LEVEL 5
J15	WALL	FLAT PANEL DISPLAY WALL PULL BOX	120	120	50	RACO 258, 259 OR 265	1625mm A.F.F. - FLUSH (UNLESS INDICATED OTHERWISE)	--		SUPPLY AND INSTALL 27mm CONDUIT CONSEALED IN WALL FROM BOX TO CEILING SPACE.	LEVEL 5
J16	WALL	AV CABLE PASS THROUGH BOX	120	120	50	RACO 258, 259 OR 265	496mm A.F.F. - FLUSH (UNLESS INDICATED OTHERWISE)	--		SUPPLY AND INSTALL 27mm CONDUIT CONSEALED IN WALL FROM BOX TO AV BOX BEHIND FLAT PANEL DISPLAY.	LEVEL 5
J17(P11)	CEILING	VIDEO PROJECTOR LIFT	720	440	250	DISPLAY DEVICES DL3812.5	FLUSH WITH CEILING	3 / T702			LEVEL 5

TECHNOLOGY NETWORK JUNCTION BOX LEGEND											
TYPE		FUNCTION	DIMENSIONS			ENCLOSURE DESCRIPTION	ENCLOSURE MAKE & MODEL	MOUNTING STYLE	REFERENCE DETAIL	NOTES	Level
TAG	MOUNTING		HEIGHT (mm)	WIDTH (mm)	DEPTH (mm)						
NDA	WALL	NETWORK OUTLET - STANDARD	120	120	50	PULL BOX W/RAISED SINGLE DEVICE COVER	RACO 258, 259 OR 265	450mm A.F.F. - FLUSH (UNLESS OTHERWISE INDICATED)			LEVEL 5
NDB	WALL	NETWORK OUTLET - STANDARD	120	120	50	PULL BOX W/RAISED SINGLE DEVICE COVER	RACO 258, 259 OR 265	450mm A.F.F. - FLUSH (UNLESS OTHERWISE INDICATED)			LEVEL 5
N3	WALL	NETWORK OUTLET - FLAT PANEL DISPLAY	120	120	50	PULL BOX W/RAISED SINGLE DEVICE COVER	RACO 258, 259 OR 265	1625mm A.F.F. - FLUSH			LEVEL 5
N6G	CEILING	NETWORK OUTLET - WAP CEILING	120	120	50	PULL BOX W/BLANK COVER	RACO 258, 259 OR 265	500mm ABOVE LAY-INGYPSUM CEILING			LEVEL 5
N9D	WALL	NETWORK OUTLET - EQUIPMENT RACK	120	120	50	PULL BOX W/RAISED SINGLE DEVICE COVER	RACO 258, 259 OR 265	450mm A.F.F. - FLUSH (UNLESS OTHERWISE INDICATED)			LEVEL 5

### DOOR CARD ACCESS SYSTEMS

- [RTE]** REQUEST TO EXIT
- [PS]** POWER SUPPLY FOR CARD ACCESS - ELECTRICAL TO RUN A 120 VOLT SUPPLY TO EACH LOCATION AND SHALL ALSO PROVIDE CONDUITS FOR LOW VOLTAGE WIRING FROM THE POWER SUPPLY TO DOOR FRAME. (TWO 21mm CONDUITS TO EACH DOOR FRAME)
- ### BUILDING ACCESS/CONTROL SYSTEMS
- [MAG]** MAGNETIC DOOR LOCK
- [DO]** AUTOMATIC DOOR OPERATOR
- [PB]** PUSHBUTTON FOR DOOR OPERATOR - EXACT LOCATION AS PER ARCHITECTURAL. ELECTRICAL TO PROVIDE BOXES AT PUSHBUTTON LOCATIONS AND PROVIDE CONDUIT FROM PUSHBUTTON TO DOOR OPERATOR. LOW VOLTAGE WIRING BY DOOR HARDWARE INSTALLER
- [PS]** POWER SUPPLY FOR DOOR HARDWARE - ELECTRICAL TO RUN A 120 VOLT SUPPLY TO EACH LOCATION AND SHALL ALSO PROVIDE CONDUITS FOR LOW VOLTAGE WIRING FROM THE POWER SUPPLY TO DOOR FRAME. (TWO 21mm CONDUITS TO EACH DOOR FRAME)

### SECURITY SYSTEMS

- [IC]** INTERIOR SECURITY CAMERA
- [CR]** CARD READER
- [FR]** FUTURE CARD READER DEVICE
- [DCD]** DOOR CONTROL DEVICE
- [DC]** DOOR CONTROL
- [AC]** ACCESS CONTROL

### DRAWING NUMBERING SYSTEM

- 7000** SEQUENTIAL NUMBER
- 11** SUBSYSTEM NUMBER
- TECHNOLOGY INFRASTRUCTURE PLANT/AREA/FACILITY BUILDING NUMBER**
- SUBSYSTEM NUMBER**
- 00X LEGEND**
- 00X** ELECTRICAL DETAILS
- 10X** DEMOLITION
- 20X** ELECTRICAL DISTRIBUTION PLANS
- 30X** LIGHTING SYSTEMS PLANS
- 40X** POWER SYSTEMS PLANS
- 70X** SINGLE LINE DIAGRAMS

### TECHNOLOGY SYMBOLS NUMBERING SYSTEM

- NDA** LETTER DESIGNATES CABLE TYPE AND QUANTITY AS PER TELECOM CABLING LEGEND.
- N** NUMBER DESIGNATES BOX-TYPE AND MOUNTING STYLE.

### CONDUIT SIZE DESIGNATION

INCHES	METRIC DESIGNATOR
1/2	16mm
3/4	21mm
1	27mm
1 1/4	32mm
1 1/2	41mm
2	53mm
2 1/2	63mm
3	76mm
3 1/2	91mm
4	102mm
5	127mm
6	152mm
8	203mm

TELECOM CABLING LEGEND		
TYPE	CABLING	DETAIL
A	(1) CAT6 CABLE	8/7711
B	(2) CAT6 CABLES	8/7711
D	(4) CAT6 CABLES	8/7711
E	BLANK FACEPLATE	-
F	(6) CAT6 CABLES	-
G	(2) CAT6A CABLES	-
H	INFRASTRUCTURE ONLY - FOR FUTURE USE	-
K	(3) CAT6 CABLES	10/7711
L	(1) CAT6 CABLE - IP67	7/7711
M	(2) CAT6 CABLES - IP67	6/7711
N	(2) CAT6A CABLES - IP67	-

### DEMOLITION

- [C-] EX** EXISTING INTERIOR SECURITY CAMERA - SUBSCRIPT INDICATES PHASE STATUS.
- [CR] EX** EXISTING CARD READER - SUBSCRIPT INDICATES PHASE STATUS.
- [FR] EX** EXISTING FUTURE CARD READER DEVICE - SUBSCRIPT INDICATES PHASE STATUS.
- [DCD] EX** EXISTING DOOR CONTROL DEVICE - SUBSCRIPT INDICATES PHASE STATUS.
- [DC] EX** EXISTING DOOR CONTROL - SUBSCRIPT INDICATES PHASE STATUS.
- [AC] EX** EXISTING ACCESS CONTROL - SUBSCRIPT INDICATES PHASE STATUS.
- [NDA] EX** EXISTING NETWORK WALL OUTLET - SUBSCRIPT INDICATES PHASE STATUS.
- [N3] EX** EXISTING NETWORK CEILING MOUNTED OUTLET - SUBSCRIPT INDICATES PHASE STATUS.
- [N9] EX** EXISTING JUNCTION BOX - WALL MOUNTED. SUBSCRIPT INDICATES PHASE STATUS.
- [N3D] EX** EXISTING JUNCTION BOX - CEILING MOUNTED. SUBSCRIPT INDICATES PHASE STATUS.

### LIST OF SUBSCRIPTS

- ER** INDICATES EXISTING TO BE REMOVED
- EX** INDICATES EXISTING TO REMAIN
- NL** INDICATES EXISTING MOUNTED IN NEW LOCATION
- RL** INDICATES EXISTING TO BE RELOCATED

### LEGEND NOTES

- [A] ANY FLOOR BOXES AND FLOOR PENETRATIONS (GENERAL)**  
VERIFY EXACT LOCATION, COVER STYLE AND FINISH WITH ARCHITECT PRIOR TO INSTALLATION. IF THE LOCATION OF ANY FLOOR BOXES INDICATED ON THE DRAWINGS CONFLICTS WITH EXISTING STRUCTURE, THE CONTRACTOR IS AUTHORIZED TO MOVE THE LOCATION OF THE FLOOR BOX UP TO 6 INCHES IN ANY DIRECTION TO CLEAR THE OBSTRUCTION. IF THE LOCATION MUST BE MOVED MORE THAN 6IN. (152mm) IN ANY DIRECTION, THE CONTRACTOR SHALL CONSULT WITH THE ARCHITECT FOR FURTHER INSTRUCTIONS.
- [B] FIBRE OPTIC FLOOR BOX**  
WIREMOLD RESOURCE RFB FLOOR BOX. PROVIDE TWO D7B-2-2AB COMMUNICATIONS BRACKETS WITH TWO OM2-USKEY MODULE ADAPTERS PER BRACKET. INSTALL BRACKETS AND ADAPTERS INTO THE TWO TELECOM QUADRANTS OF THE FLOOR BOX. PROVIDE TWO DUPLEX RECEPTACLES USING 2 RFB BRACKETS FOR THE TWO POWER QUADRANTS OF THE FLOOR BOX. VERIFY COVER STYLE AND FINISH WITH ARCHITECT PRIOR TO INSTALLATION. USE MODEL RFB4-Q1 WHERE APPLICATION IS IN SLAB AT GRADE.
- [C] FIBRE OPTIC FLOOR BOX**  
WIREMOLD RFB FLOOR BOX. USE THE FIRST SINGLE-GANG COMPARTMENT FOR POWER. USE SECOND SINGLE-GANG COMPARTMENT FOR VOICEDATA AND AV. AND RESERVE THE LAST SINGLE-GANG COMPARTMENT AND THE SIX-GANG COMPARTMENT FOR AV ONLY. PROVIDE A DUPLEX POWER RECEPTACLE IN THE SINGLE-GANG-POWER COMPARTMENT. PROVIDE QTY 2 RFB19-158-BLANK COVER PLATES FOR THE SIX-GANG COMPARTMENT. PROVIDE QTY 1 RFB19-158-BLANK COVER PLATES FOR THE SINGLE-GANG COMPARTMENTS. VERIFY COVER STYLE AND FINISH WITH ARCHITECT PRIOR TO INSTALLATION. USE MODEL RFB8-03 WHERE APPLICATION IS IN SLAB AT GRADE.
- [D] FIBRE OPTIC FLOOR BOX**  
WIREMOLD (LEGRAND) EVOLUTION 8AT 8" POKE THRU DEVICE. INTERIOR OPTIONS: PROVIDE QTY(1)RBRRC INSERT PLATE FOR ONE OUTSIDE (POWER) COMPARTMENT AND PROVIDE QTY(1)RBSA INSERT PLATE FOR THE OPPOSITE OUTSIDE (DATA) COMPARTMENT. PROVIDE QTY(3) RBS INSERT PLATES FOR THE MIDDLE COMPARTMENT, RESERVING THIS COMPARTMENT FOR AUDIOVISUAL USE. BOTTOM OPTIONS: PROVIDE QTY(1)R75CH4 BOTTOM HOUSING ASSEMBLY EACH FOR THE OUTSIDE (POWER AND DATA) COMPARTMENTS. PROVIDE QTY(1)R16BL8 BLANK BOTTOM HOUSING ASSEMBLY FOR THE CENTER OF THE MIDDLE (AV) COMPARTMENT AND QTY(2)R125CH4 1-1/4" CONDUIT RECEIVER BOTTOM HOUSING ASSEMBLY FOR THE TWO OUTSIDE ENDS OF THE MIDDLE (AV) COMPARTMENT. COVER OPTIONS: VERIFY COVER STYLE AND FINISH WITH ARCHITECT PRIOR TO INSTALLATION. DESIGNER TO CONSULT WIREMOLD WEBSITE AND USE CONFIGURATION TOOL TO DETERMINE INSERT FIT OUT FOR SPECIFIC APPLICATION.
- [E] FLAT PANEL DISPLAY BOX (RFB3-P)**  
FSR PWB-270 WALL BOX. INCLUDES NETWORK OUTLET N3 AND POWER RECEPTACLE PL ASSEMBLY COMES STANDARD WITH QTY 1 LOW VOLTAGE ENTRY BOX. ORDER ADDITIONAL LOW VOLTAGE ENTRY BOX (FSR PART NO. PWB-270-CBB. TERMINATE CONDUITS TO UPPER OR LOWER LOW-VOLTAGE ENTRY BOX AS INDICATED ON THE CONDUIT RISER DRAWINGS. ORDER WITH WHITE PAINTABLE COVER.
- [F] EQUIPMENT RACK WIREWAY**  
RECESS WIREWAY INTO WALL WITH REMOVABLE COVER FACING OUT. TERMINATE CONDUITS TO WIREWAY INSIDE WALL SPACE.
- [G] RACO JUNCTION BOXES W/RAISED DEVICE COVERS**  
PROVIDE A RAISED SINGLE OR TWO DEVICE COVERS AS SPECIFIED OF APPROPRIATE DEPTH TO MATCH WALL THICKNESS.
- [H] CEILING SUSPENDED VIDEO PROJECTOR**  
THE LOCATION OF THE AUDIOVISUAL, POWER AND NETWORK JUNCTION BOXES IN RELATION TO THE PROJECTION SCREEN IS CRITICAL FOR VIDEO PROJECTOR INFRASTRUCTURE LAYOUT INFORMATION SEE SHEET T002 AND REFERENCED DETAILS.
- [I] CEILING-TILE RECESSED JUNCTION BOXES**  
USE A HEAVY DUTY QUICK CONNECT BOX HANGER (CADDY 5126) OR SIMILAR) FOR AUDIOVISUAL, POWER AND NETWORK JUNCTION BOXES RECESSED INTO LAY-IN CEILING TILES.
- [J] TELECOMMUNICATIONS OUTLETS**  
REFER TO THE TELECOMMUNICATIONS PLANS FOR THE LOCATIONS OF JUNCTION BOXES AND FLOOR BOXES AND THE "TELECOM CABLING LEGEND" FOR OUTLET CONFIGURATION REQUIREMENTS. SEE THE "TELECOMMUNICATIONS TYPICAL CONDUIT RISER DIAGRAM" (T006 FOR THOSE NETWORK RELATED JUNCTION BOXES OR FLOOR BOXES THAT DO NOT APPEAR ON INDIVIDUAL ROOM CONDUIT RISER DRAWINGS. CABLING, TELECOMMUNICATIONS OUTLETS AND TELECOMMUNICATIONS COVER PLATES PROVIDED BY THE STRUCTURED CABLING SYSTEMS CONTRACTOR.
- [K] POWER RECEPTACLES ADJACENT STANDARD NETWORK WALL OUTLETS**  
N3 STANDARD NETWORK WALL OUTLETS SHOULD HAVE A DUPLEX POWER RECEPTACLE LOCATED WITHIN 36" OF THE TELECOMMUNICATIONS WALL OUTLET. IDEALLY, THE NETWORK OUTLET BOX WILL BE MOUNTED TO ONE SIDE OF A STUD, AND THE POWER BOX TO THE OPPOSITE SIDE OF THE STUD. SEE 21720
- [L] NO SUBSTITUTION NO KNOWN EQUIVALENT FOR THIS DEVICE**
- [M] DOOR CONTROL DEVICE DOOR CONTROL DEVICE TO BE MOUNTED IN LOCATIONS AS SHOWN ON PLANS. IN FINISHED CEILING AREAS, MOUNT DCD BELOW ALL OTHER EQUIPMENT AND A MAXIMUM OF 10' (300mm) AFF.**

### GENERAL NOTES

- SUBSTITUTIONS**  
THE MANUFACTURER AND MODEL OF JUNCTION BOXES NAMED IN THE TECHNOLOGY SYMBOLS LEGEND HAVE BEEN LISTED TO ESTABLISH THE DESIRED LEVEL OF QUALITY AND PERFORMANCE FOR EACH DEVICE. UNLESS OTHERWISE INDICATED, THE INSTALLING CONTRACTOR MAY SUBSTITUTE THESE DEVICES WITH EQUIVALENT PRODUCT BY OTHER MANUFACTURERS.
- DEVICE MOUNTING**  
DEVICE SPECIFIED MOUNTING STYLE ELEVATIONS ARE "ON CENTER" UNLESS OTHERWISE NOTED.
- JUNCTION BOX COVERS**  
UNLESS OTHERWISE DIRECTED, ALL JUNCTION BOXES MUST BE PROVIDED WITH A COVER. WHERE RAISED DEVICE COVERS ARE SPECIFIED IN THE SCHEDULE, MATCH COVER DEPTH TO WALL THICKNESS. WHERE JUNCTION BOXES ARE MOUNTED AT OR ABOVE FINISHED CEILING HEIGHT, INSTALL JUNCTION BOX WITH OPEN SIDE FACING DOWN.
- CONDUIT RUNS**  
ALL CONDUIT RUNS SHALL BE STEEL, THIN-WALL ELECTRICAL METALLIC TUBING (EMT) UNLESS OTHERWISE INDICATED. CONDUIT SIZES AND TERMINATIONS SHALL BE AS INDICATED ON THE TECHNOLOGY SYSTEMS INFRASTRUCTURE DRAWINGS. CONDUIT ROUTING IS AT CONTRACTORS DISCRETION BUT THE CONTRACTOR SHALL PROVIDE A PULL BOX IMMEDIATELY BEFORE AND AFTER ANY CONDUIT RUN SECTION CONTAINING TWO NINETY-DEGREE TURNS, OR ANY SINGLE RUN EXCEEDING FTY FT IN LENGTH REGARDLESS OF WHETHER PULL BOXES ARE SHOWN ON THE DRAWINGS OR NOT. ALL CONDUIT RUNS SHALL BE PROVIDED WITH A PULL STRING. REFER TO DIVISION 28 CONDUIT SPECIFICATION FOR PRODUCTS AND INSTALLATION REQUIREMENTS.
- CONDUIT STUBS**  
PROVIDE A Nylon BUSHING ON ALL CONDUIT STUBS AND NON-TERMINATED CONDUIT ENDS TO PROTECT WIRE PULLS.
- POWER RECEPTACLES**  
POWER RECEPTACLES INDICATED ON THE TECHNOLOGY INFRASTRUCTURE DRAWINGS ARE SHOWN FOR COORDINATION PURPOSES ONLY. REFER TO THE ELECTRICAL DRAWINGS FOR COMPLETE POWER LAYOUTS AND CIRCUITING DETAILS.
- GROUND COMMUNICATIONS SYSTEMS AND EQUIPMENT IN ACCORDANCE WITH ANS/IEEE/IEE60 GROUNDING STANDARD AND APPLICABLE CEC REQUIREMENTS EXCEPT WHERE THE DRAWINGS OR SPECIFICATIONS EXCEED CEC REQUIREMENTS. ALL RACKS, METALLIC BACKBOARDS, CABLE SHEATHS, METALLIC STRENGTH MEMBERS, SPLICE CASES, CABLE TRAYS, ETC. ENTERING OR RESIDING IN TECHNICAL EQUIPMENT SPACES SHALL BE GROUNDING TO THEIR RESPECTIVE GROUND SYSTEM USING A MINIMUM #6 AWG COPPER BONDING CONDUCTOR AND COMPRESSION CONNECTORS. ALL WIRES USED FOR TECHNICAL POWER SYSTEMS GROUNDING PURPOSES SHALL BE IDENTIFIED WITH GREEN INSULATION OR IDENTIFIED AT EACH TERMINATION POINT WITH A MARK OF GREEN TAPE. ALL CABLES AND BUS BARS SHALL BE IDENTIFIED AND LABELED "TECHNICAL POWER SYSTEM GROUND".**
- FIRESTOPPING**  
PROVIDE THROUGH-PENETRATION FIRE STOP SYSTEMS TO PREVENT THE SPREAD OF FIRE THROUGH OPENINGS MADE IN FIRE-RATED WALLS OR FLOORS TO ACCOMMODATE PENETRATING ITEMS SUCH AS CONDUIT, CABLES AND CABLE RACKWAYS. FIRE STOP SHALL RESTORE FLOOR AND WALL TO ORIGINAL FIRE RATED INTEGRITY AND SHALL BE WATERPROOF. THE FIRE STOP SYSTEMS AND PRODUCTS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ULIC PROCEDURES AND MATERIALS SHALL BE ULIC CLASSIFIED AS MATERIALS FOR USE IN THROUGH-PENETRATION FIRE STOPS.
- THE FIRE STOP SYSTEM SHALL COMPLY WITH THE CEC AND WITH NFPA 101-LIFE SAFETY CODE (LATEST EDITION) AND SHALL BE MADE AVAILABLE FOR INSPECTION BY THE LOCAL INSPECTION AUTHORITIES PRIOR TO CABLE SYSTEM ACCEPTANCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE FIRE RATING OF ALL WALLS AND FLOORS HAVING CABLING PENETRATIONS. COORDINATE SEALANT INSTALLATION WITH WORK OF OTHER TRADES. REFER TO GENERAL AND/OR ELECTRICAL SPECIFICATION SECTIONS FOR FURTHER MATERIAL AND INSTALLATION PARAMETERS. COORDINATE INSTALLATION WITH THE GENERAL CONTRACTOR ON SITE.**
- FIRE STOP SYSTEMS SHALL BE UL/ULC CLASSIFIED TO ASTM E814 (UL1478) AND SHALL BE APPROVED BY A QUALIFIED PROFESSIONAL ENGINEER, LICENSED IN THE PROVINCE WHERE THE WORK IS TO BE PERFORMED. A DRAWING SHOWING THE PROPOSED FIRE STOP SYSTEM, STAMPED AND SIGNED BY THE PROFESSIONAL ENGINEER, SHALL BE PROVIDED TO THE OWNER'S TECHNICAL REPRESENTATIVE PRIOR TO INSTALLING THE FIRE STOP SYSTEMS.**

Key Plan

**MEMORIAL UNIVERSITY**

Department of Facilities Management  
This University was raised by the people of Newfoundland as a memorial to the fallen in the great wars, 1914-1918, 1939-1945, that in freedom of learning, their cause and sacrifice might not be forgotten.

*- Dedication plaque, Arts & Administration Building, St. John's Campus*

Prepared For  
**MEMORIAL UNIVERSITY OF NEWFOUNDLAND**  
ST. JOHN'S, NEWFOUNDLAND

Architect Prime Consultant:  
**FOUGERE MENCHENTON ARCHITECTURE**

Discipline:  
**ELECTRICAL**

Sub-Consultant: Mechanical and Electrical  
**Jbc JEWELL BAILEY CONSULTANTS**

PROVINCE OF NEWFOUNDLAND AND LABRADOR  
**PERMIT HOLDER**  
This Permit Allows  
**JEWELL BAILEY CONSULTANTS LTD.**  
M.B.C. 2023-01-11  
To practice Professional Engineering in Newfoundland and Labrador  
Permit No. as issued by PEG 00540 which is valid for the year 2023.

Drawn: E.D. Checked: D.C.  
Designed: E.D. Approved: D.C.

Consultants Project No.  
**JBC-22-C-106**

Professional Stamp & Permit  
**PEGI**  
Professional Engineer  
2023-02-15  
NEWFOUNDLAND & LABRADOR

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3 ISSUED FOR CONSTRUCTION 2023-02-13  
2 ISSUED FOR ADDENDUM #3 2022-12-16  
1 ISSUED FOR ADDENDUM #2 2022-12-14  
0 ISSUED FOR TENDER 2022-12-01  
D ISSUED FOR 80% REVIEW 2022-09-30  
C ISSUED FOR 30% REVIEW 2022-09-08  
B ISSUED FOR PRELIMINARY REVIEW 2022-08-19  
A ISSUED FOR 50% DD 2022-08-09

No. Revisions MM/DD/YY

Drawing Nomenclature

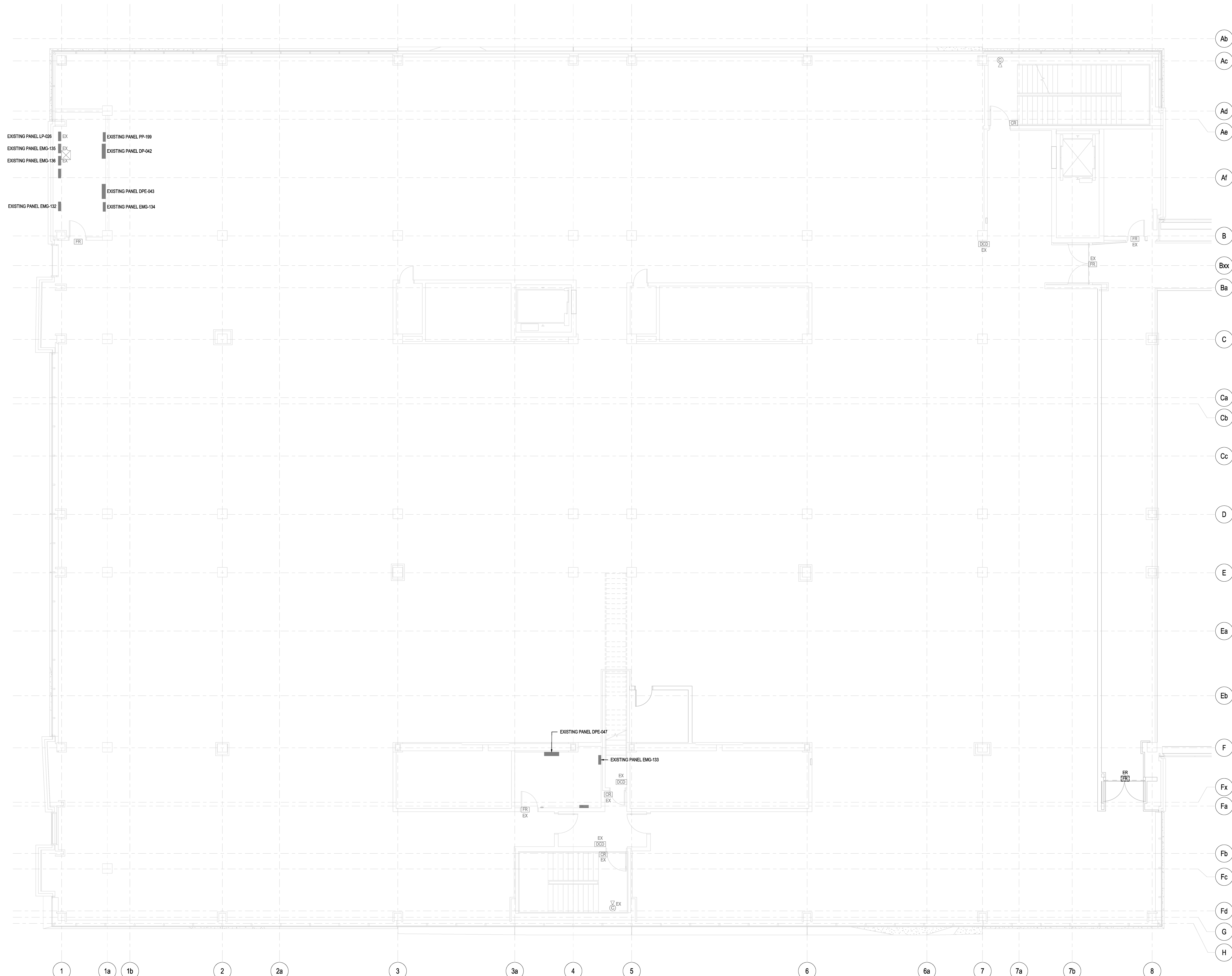
Detail/Section No. 3 A-1 Dwg. No. where detailed

PROJECT TITLE  
**OFI FIT UP, PAV-A, LEVEL 5**

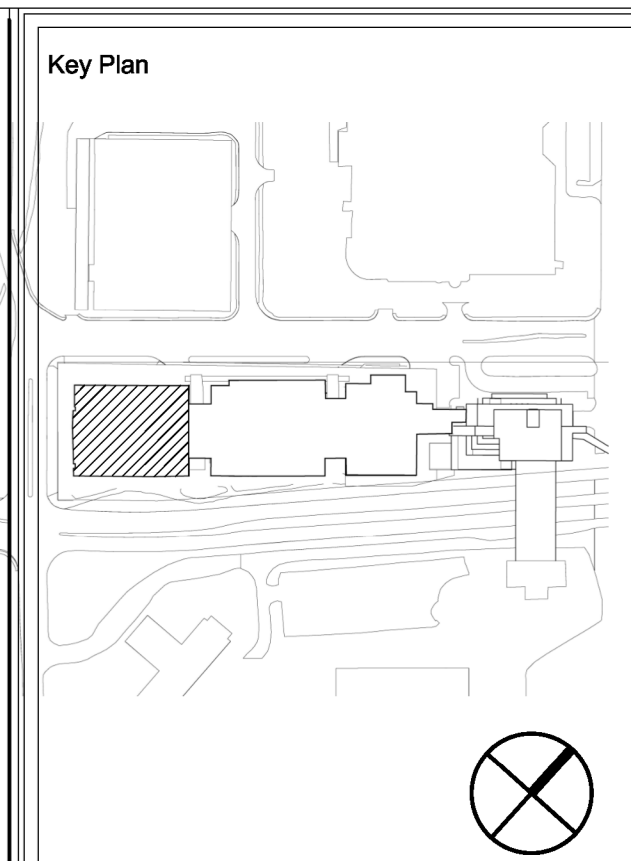
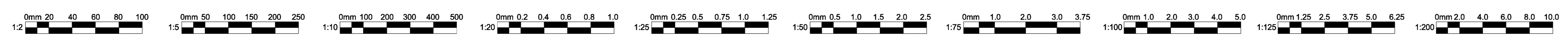
Client's Project No.: CSF-001-21

DRAWING TITLE  
**TECHNOLOGY INFRASTRUCTURE LEGEND**

SCALE 1:100 DRAWING NO. T001  
DATE 2023-02-13  
REVISION NO. 3 2/10/2023 4:14:41 PM



**1** DEMOLITION SECURITY SYSTEM FLOOR PLAN - LEVEL 5 PAV-A SHELLED SPACE  
T101 1:75



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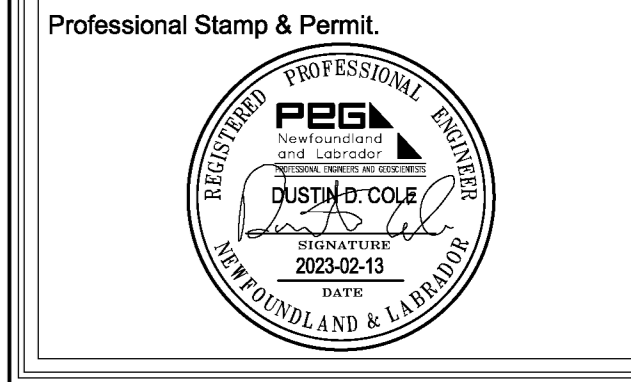
Architect Prime Consultant:  
**FOUGERE MENCHENTON ARCHITECTURE**

Discipline:  
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PROVINCE OF NEWFOUNDLAND AND LABRADOR  
**PERMIT HOLDER**  
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 M.B.C. 123456789  
 To practice Professional Engineering in Newfoundland and Labrador  
 Permit No. as issued by PEG 00540 which is valid for the year 2023.

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Designed:	E.D.	Approved:	D.C.

Consultants Project No.  
**JBC-22-C-106**



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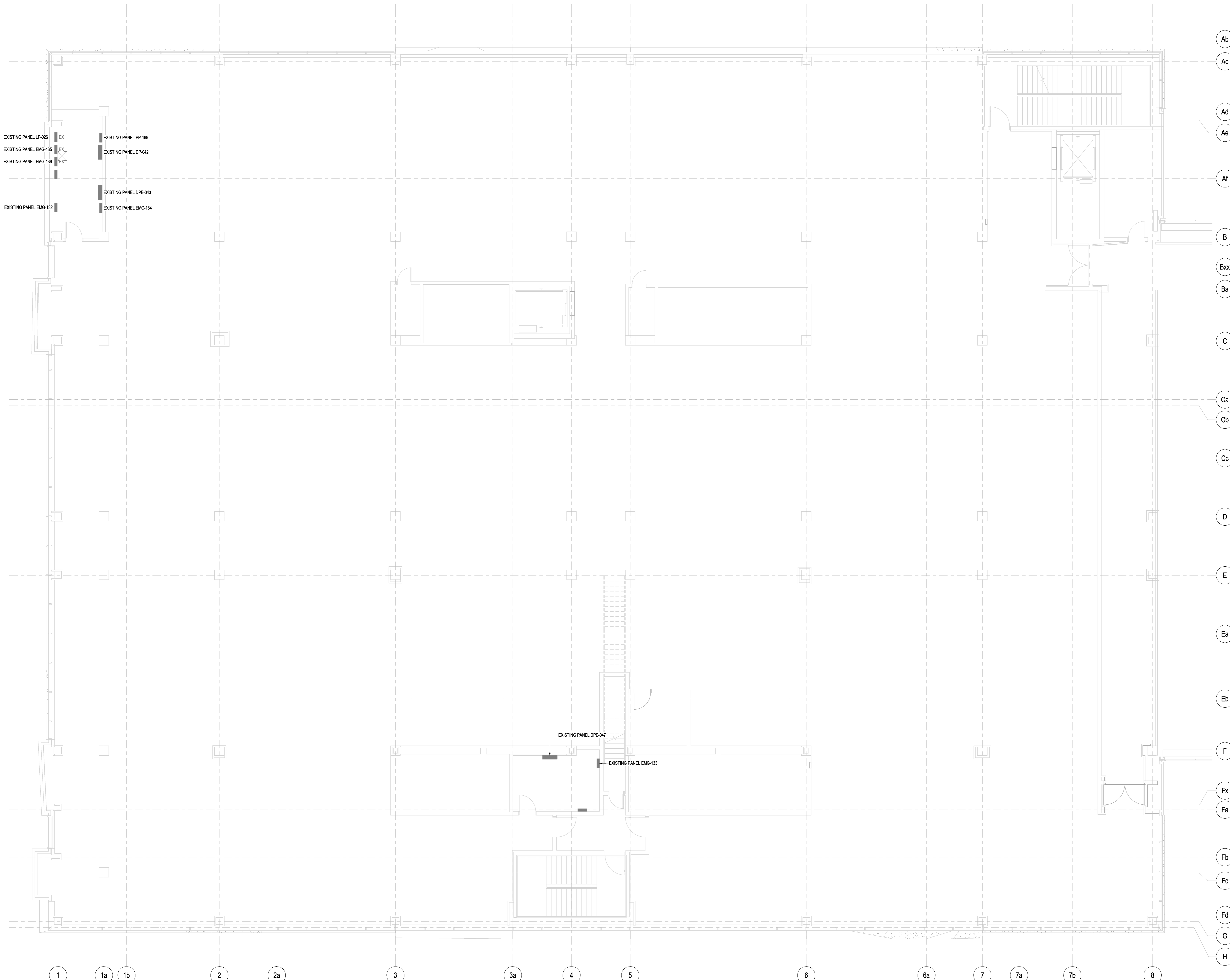
1	ISSUED FOR CONSTRUCTION	2023-02-13
0	ISSUED FOR ADJUDICUM #2	2022-12-14
A	ISSUED FOR 80% REVIEW	2022-09-30
No.	Revisions	MMDDYY

Drawing Nomenclature  
 Detail/Section No. **3** / **A-1** ← Dwg. No. where detailed

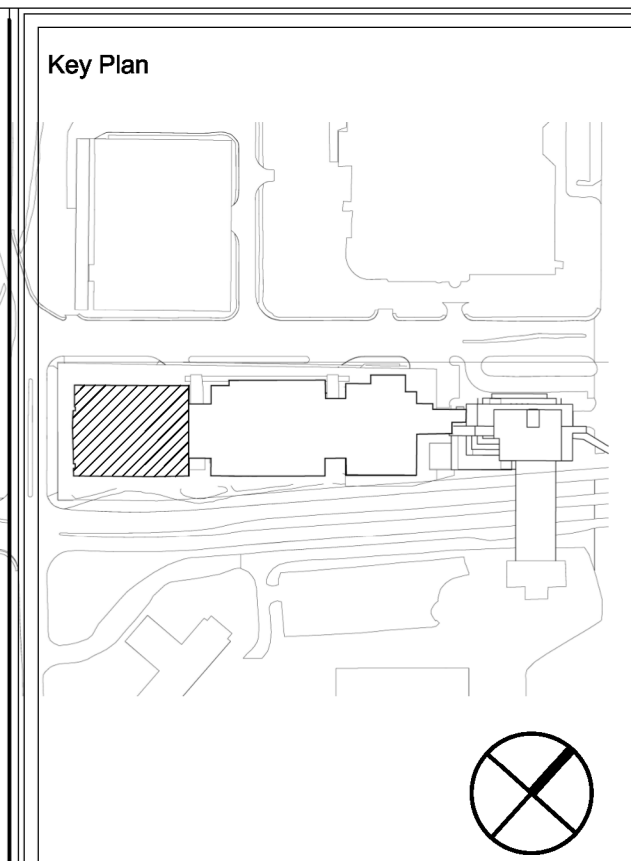
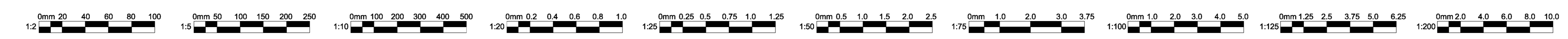
PROJECT TITLE  
**OFI FIT UP, PAV-A, LEVEL 5**  
 Client's Project No.: CSF-001-21

DRAWING TITLE  
**DEMOLITION SECURITY FLOOR PLAN - LEVEL 5, PAV-A**

SCALE: 1:75  
 DATE: 2023-02-13  
 REVISION NO.: 1  
**T101**  
 2/10/2023 4:14:43 PM



**1** DEMOLITION DATA SYSTEMS FLOOR PLAN - LEVEL 5 PAV-A SHELLED SPACE  
T102 1:75



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**MEMORIAL UNIVERSITY OF NEWFOUNDLAND**  
 ST. JOHN'S, NEWFOUNDLAND

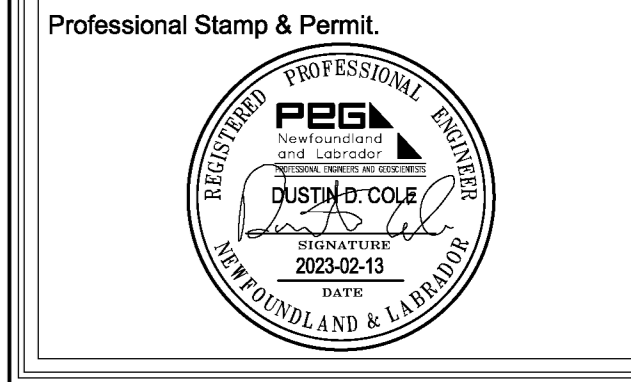
Architect Prime Consultant:  
**FOUGERE MENCHENTON ARCHITECTURE**

Discipline:  
**ELECTRICAL**  
 Sub-Consultant: Mechanical and Electrical  
**JBC JEWER BAILEY CONSULTANTS**

PROVINCE OF NEWFOUNDLAND AND LABRADOR  
**PERMIT HOLDER**  
 This Permit Allows  
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 M.B.C. [Signature]  
 To practice Professional Engineering in Newfoundland and Labrador  
 Permit No. as issued by PEG 80540 which is valid for the year 2023.

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 Designed: E.D. Approved: D.C.

Consultants Project No.  
**JBC-22-C-106**



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No.	Revisions	MMDDYY
2	ISSUED FOR CONSTRUCTION	2023-02-13
1	ISSUED FOR ADDENDUM #2	2022-12-14
0	ISSUED FOR TENDER	2022-12-01
A	ISSUED FOR 80% REVIEW	2022-09-30

Drawing Nomenclature  
 Detail/Section No. **3** / **A-1** Dwg. No. where detailed

PROJECT TITLE  
**OFI FIT UP, PAV-A, LEVEL 5**

Client's Project No.: CSF-001-21

DRAWING TITLE  
**DEMOLITION DATA FLOOR PLAN - LEVEL 5, PAV-A**

SCALE: 1:75  
 DATE: 2023-02-13  
 REVISION NO.: 2  
**T102**  
 2/10/2023 4:14:44 PM

Key Plan

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**MEMORIAL UNIVERSITY OF NEWFOUNDLAND**  
 ST. JOHN'S, NEWFOUNDLAND

Architect Prime Consultant:  
**FOUGERE MENCHENTON ARCHITECTURE**

Discipline:  
**ELECTRICAL**

Sub-Consultant: Mechanical and Electrical  
**Jbc JEWER BAILEY CONSULTANTS**

PROVINCE OF NEWFOUNDLAND AND LABRADOR  
**PERMIT HOLDER**  
 This Permit Allows  
**JEWER BAILEY CONSULTANTS S.L.C.**  
 M.B.C. To practice Professional Engineering in Newfoundland and Labrador  
 Permit No. as issued by PEG 00540 which is valid for the year 2023.

Drawn: E.D. Checked: D.C.  
 Designed: E.D. Approved: D.C.

Consultants Project No.  
**JBC-22-C-106**

Professional Stamp & Permit

Notes:

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2	ISSUED FOR CONSTRUCTION	2023-02-13
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B	ISSUED FOR REVIEW	2022-08-19
A	ISSUED FOR 50% DD	2022-08-09
No.	Revisions	MM/DD/YY

Drawing Nomenclature  
 Detail/Section No. **3** / **A-1** ← Dwg. No. where detailed

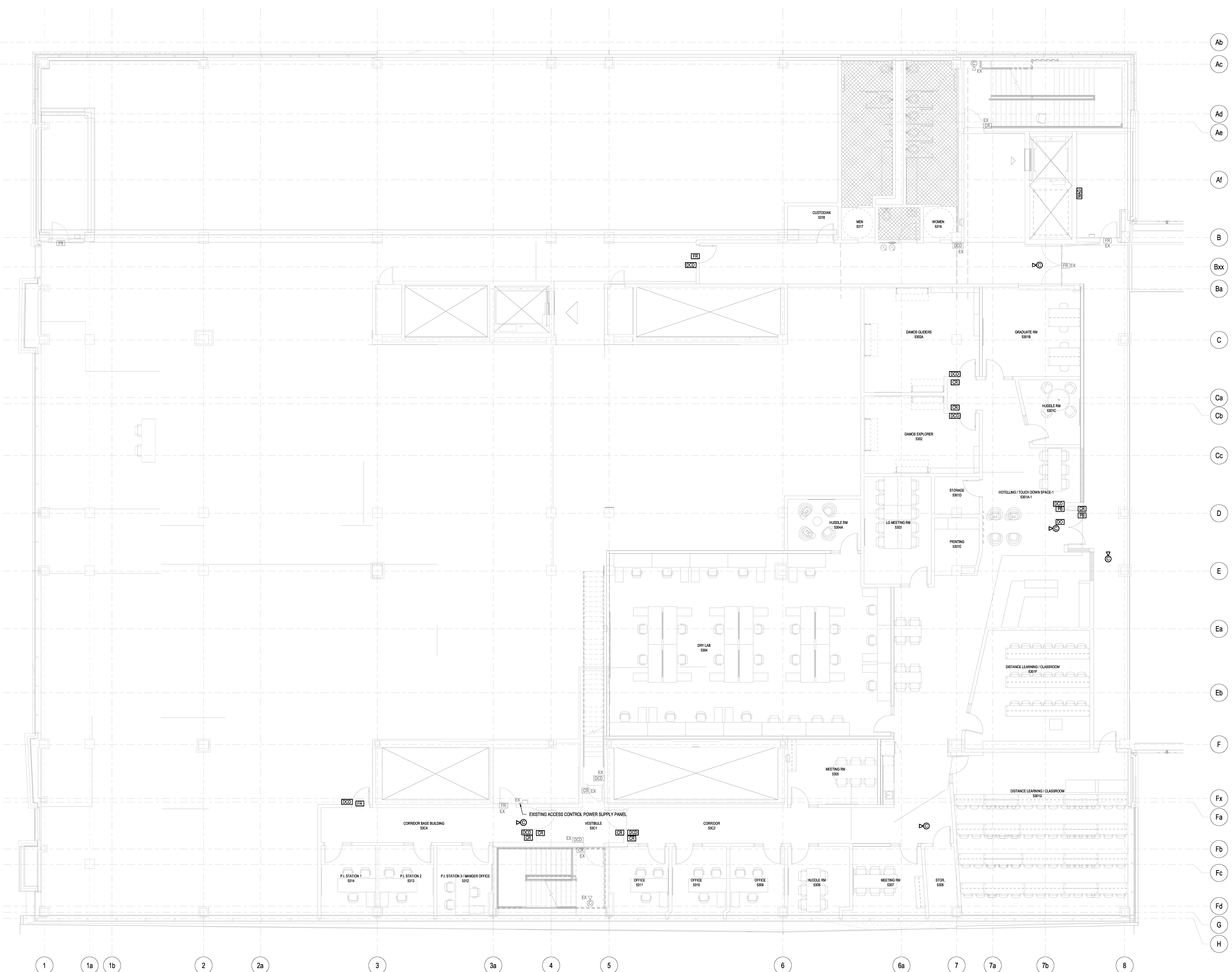
PROJECT TITLE  
**OFI FIT UP, PAV-A, LEVEL 5**

Client's Project No.: CSF-001-21

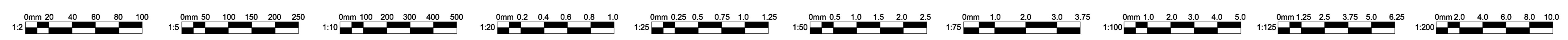
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SCALE: 1:75  
 DATE: 2023-03-13  
 REVISION NO.: 2

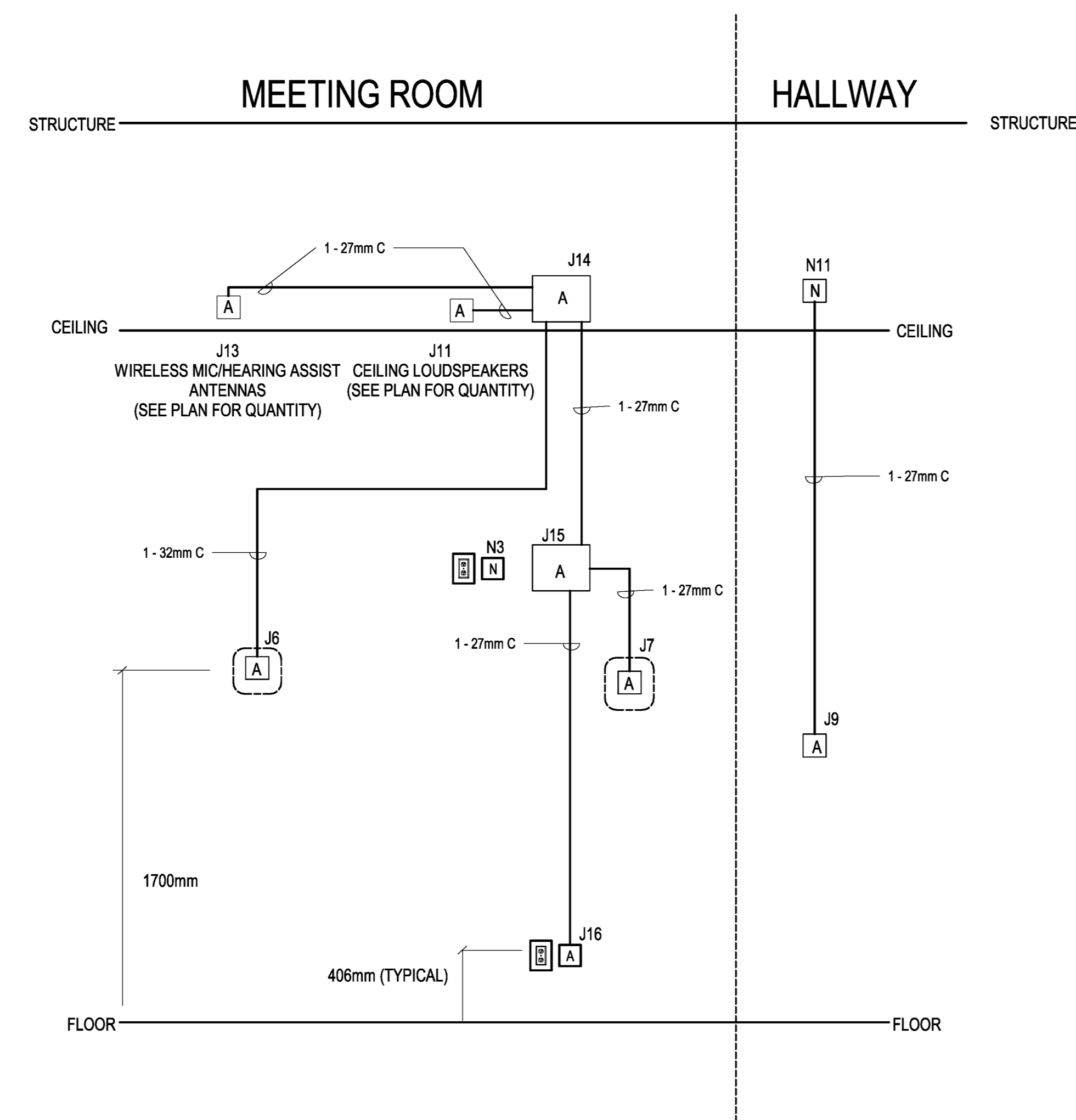
DRAWING NO.: **T301**  
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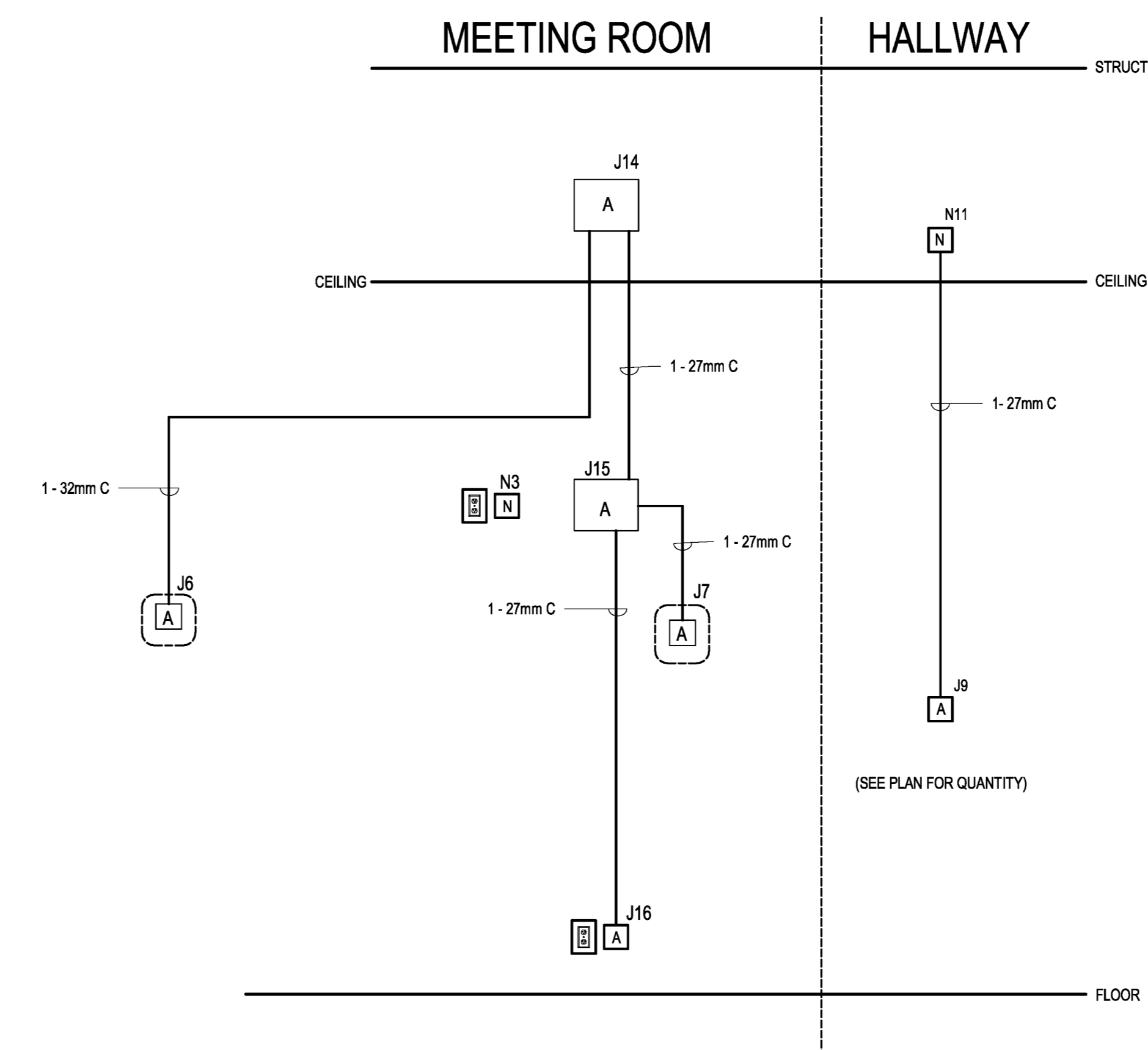
**1** REVISED SECURITY SYSTEMS FLOOR PLAN - LEVEL 5, PAV-A  
 T301 1:75



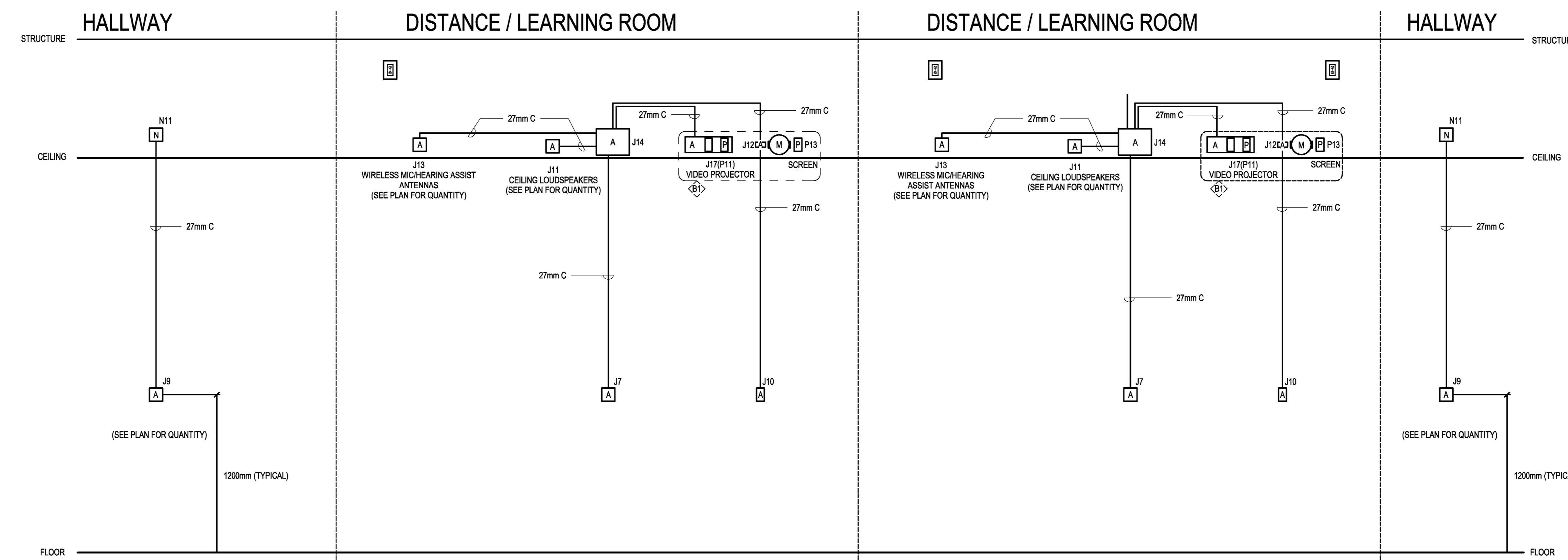




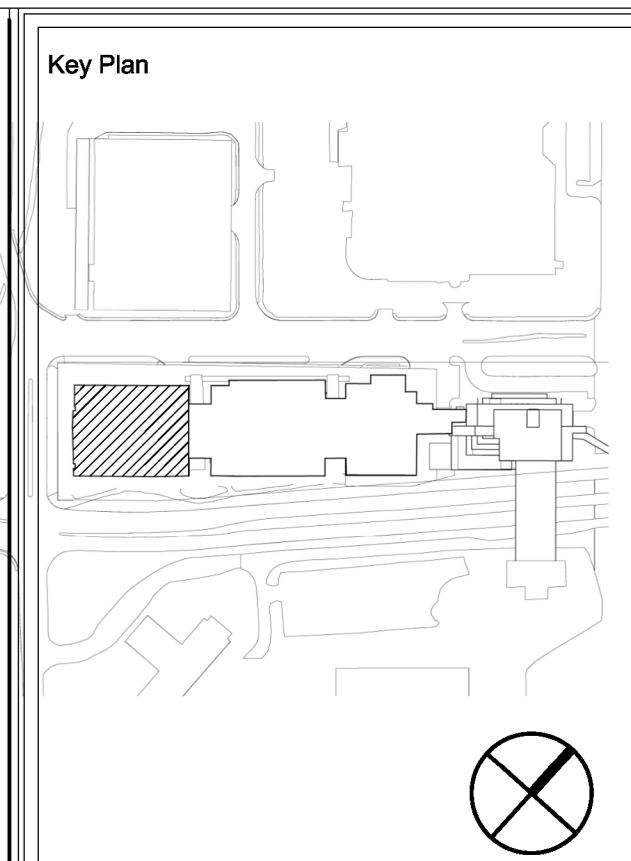
1 RISER - MEETING ROOM  
T601 NTS



2 RISER - TYPICAL MEETING ROOM  
T601 NTS



2 RISER - MEETINGS/DISTANCE LEARNING ROOM  
T601 NTS



Client:  
**MEMORIAL UNIVERSITY**  
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This University was raised by the people of Newfoundland as a memorial to the fallen in the great wars, 1914-1918, 1939-1945, that in freedom of learning, their cause and sacrifice might not be forgotten.  
- Dedication plaque, Arts & Administration Building, St. John's Campus

Prepared For  
**MEMORIAL UNIVERSITY OF NEWFOUNDLAND**  
ST. JOHN'S, NEWFOUNDLAND

Architect Prime Consultant:  
**FOUGERE MENCHENTON ARCHITECTURE**

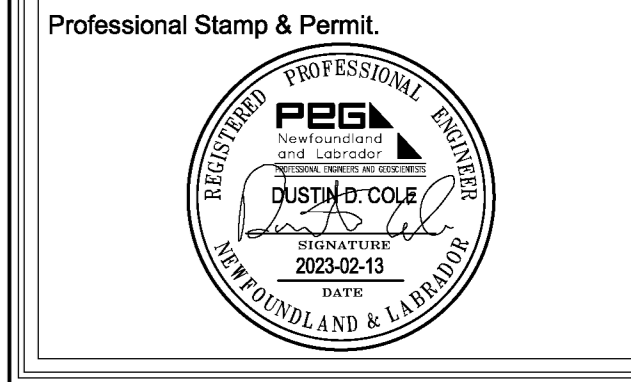
Discipline:  
**ELECTRICAL**

Sub-Consultant: Mechanical and Electrical  
**JBC JEWEL BAILEY CONSULTANTS**

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Drawn: E.D. Checked: D.C.  
Designed: E.D. Approved: D.C.

Consultants Project No.  
**JBC-22-C-106**



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No.	Revisions	MM/DD/YY

Drawling Nomenclature  
Detail/Section No. 3  
A-1 ← Dwg. No. where detailed

PROJECT TITLE  
**OFI FIT UP, PAV-A, LEVEL 5**

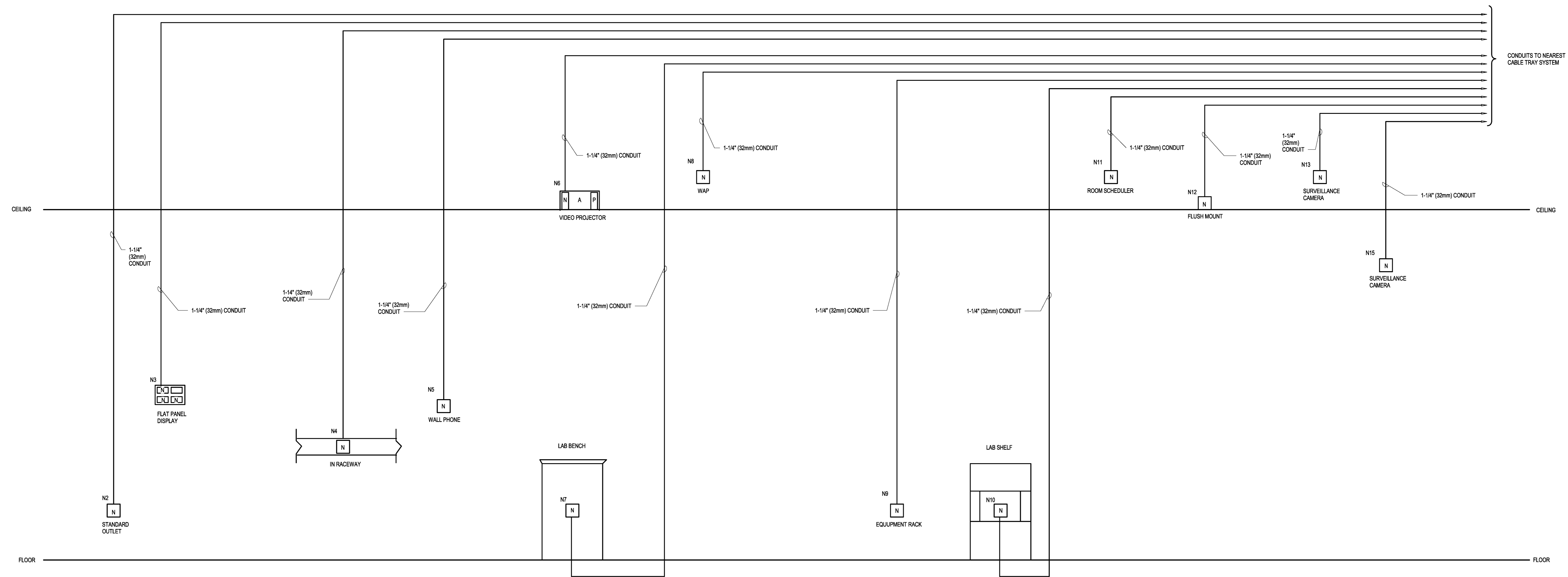
Client's Project No.: CSF-001-21

DRAWING TITLE  
**TECHNOLOGY INFRASTRUCTURE RISER DIAGRAMS**

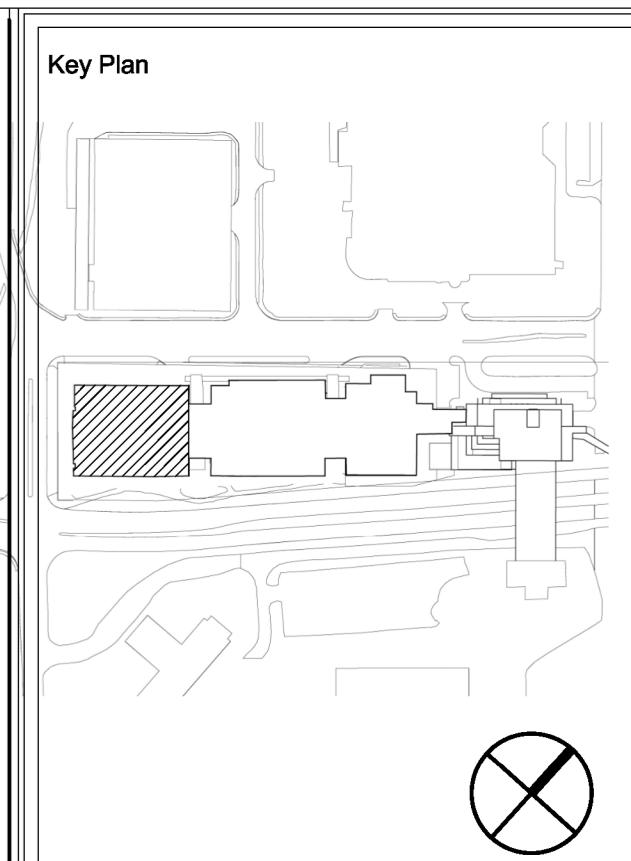
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DATE: 2023-02-13  
REVISION NO.: 2

DRAWING NO.: **T601**  
2/10/2023 4:14:49 PM





1 TELECOMMUNICATIONS TYPICAL CONDUIT RISER DIAGRAM  
T603 N.T.S.



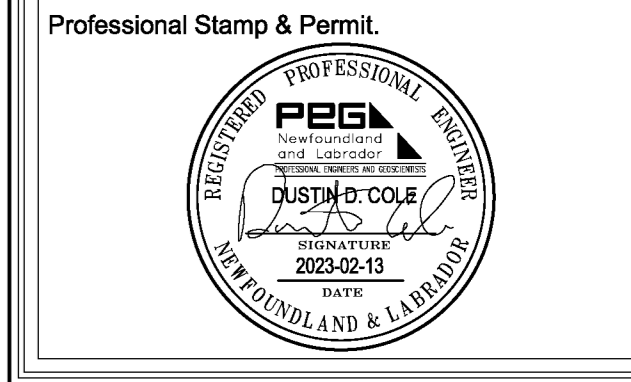
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- Dedication plaque, Arts & Administration Building, St. John's Campus  
Prepared For  
**MEMORIAL UNIVERSITY OF NEWFOUNDLAND**  
ST. JOHN'S, NEWFOUNDLAND

Architect Prime Consultant:  
**FOUGERE MENCHENTON ARCHITECTURE**

Discipline:  
**ELECTRICAL**  
Sub-Consultant: Mechanical and Electrical  
**JBC JEWEL BAILEY CONSULTANTS**

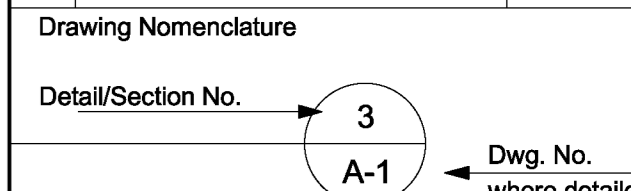
PROVINCE OF NEWFOUNDLAND AND LABRADOR  
**PERMIT HOLDER**  
This Permit Allows  
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M.B.C. [Signature]  
To practice Professional Engineering in Newfoundland and Labrador  
Permit No. as issued by PEG 100540 which is valid for the year 2023.

Drawn: E.D. Checked: D.C.  
Designed: E.D. Approved: D.C.  
Consultants Project No.  
**JBC-22-C-106**



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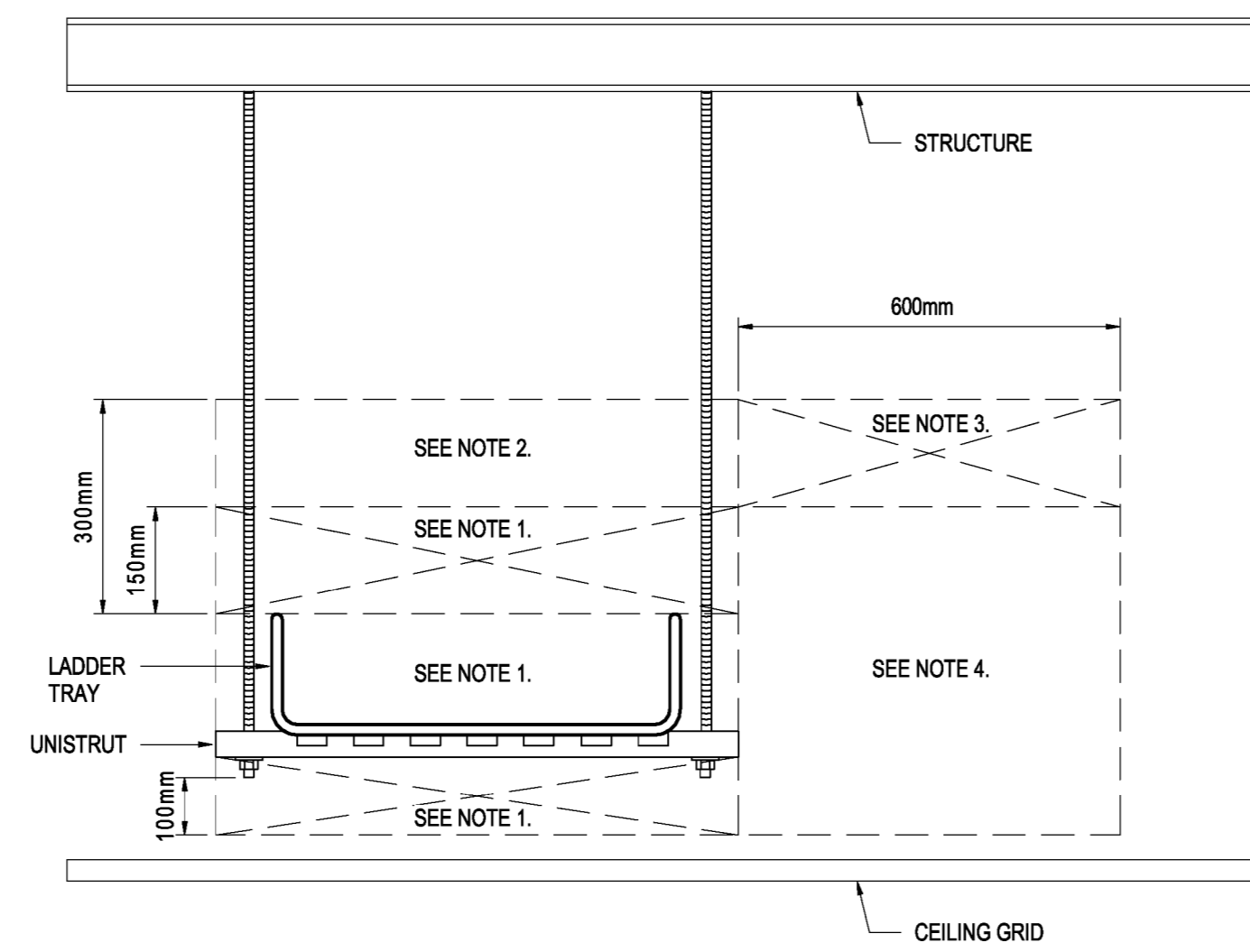
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A	ISSUED FOR 50% DD	2022-08-09
No.	Revisions	MMDDYY



PROJECT TITLE  
**OFI FIT UP, PAV-A, LEVEL 5**

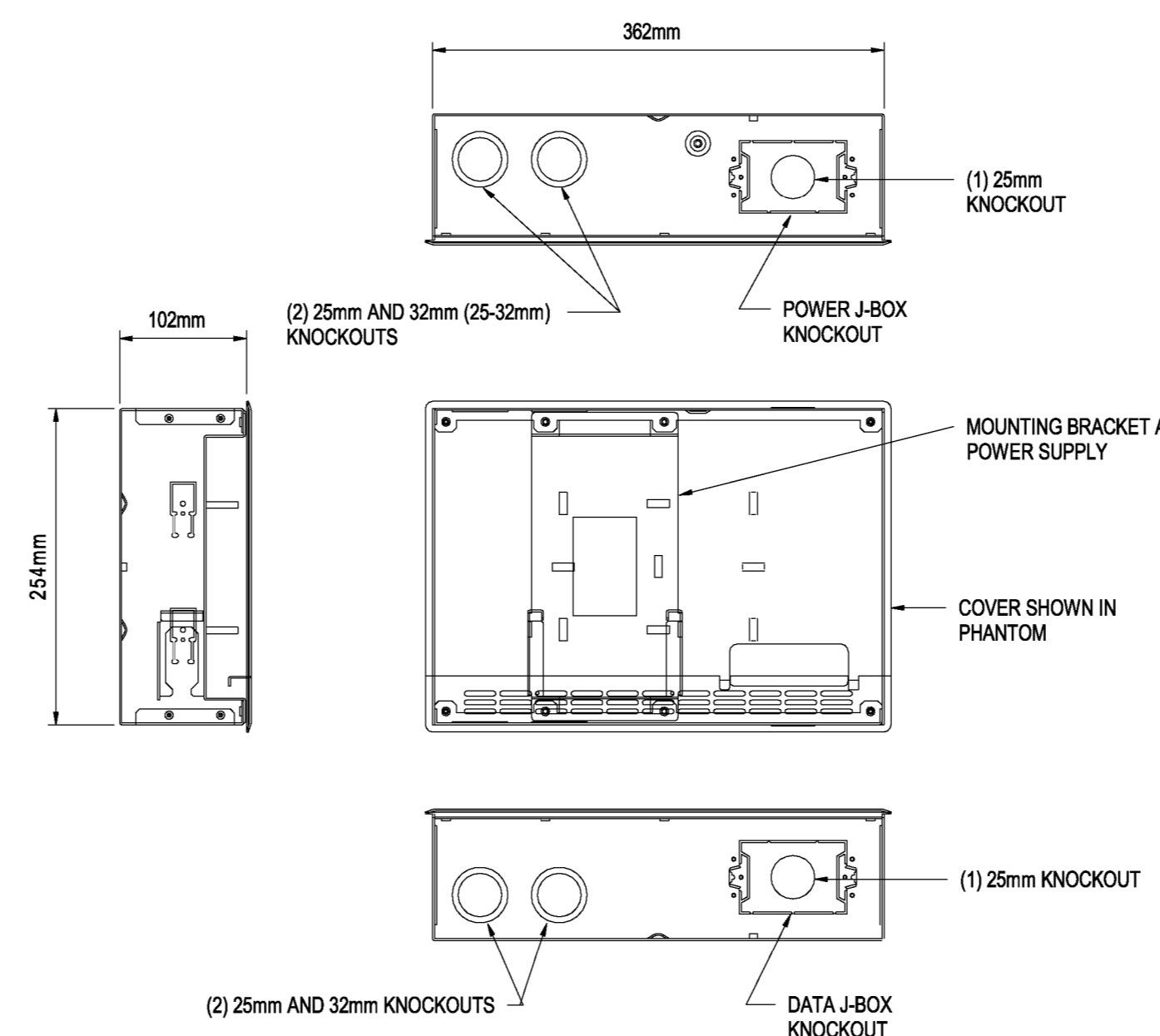
Client's Project No.: CSF-001-21  
DRAWING TITLE  
**TECHNOLOGY INFRASTRUCTURE TYPICAL CONDUIT RISER DIAGRAM**

SCALE  
N.T.S.  
DATE  
2023-02-13  
REVISION NO.  
2  
**T603**  
2/10/2023 4:14:50 PM

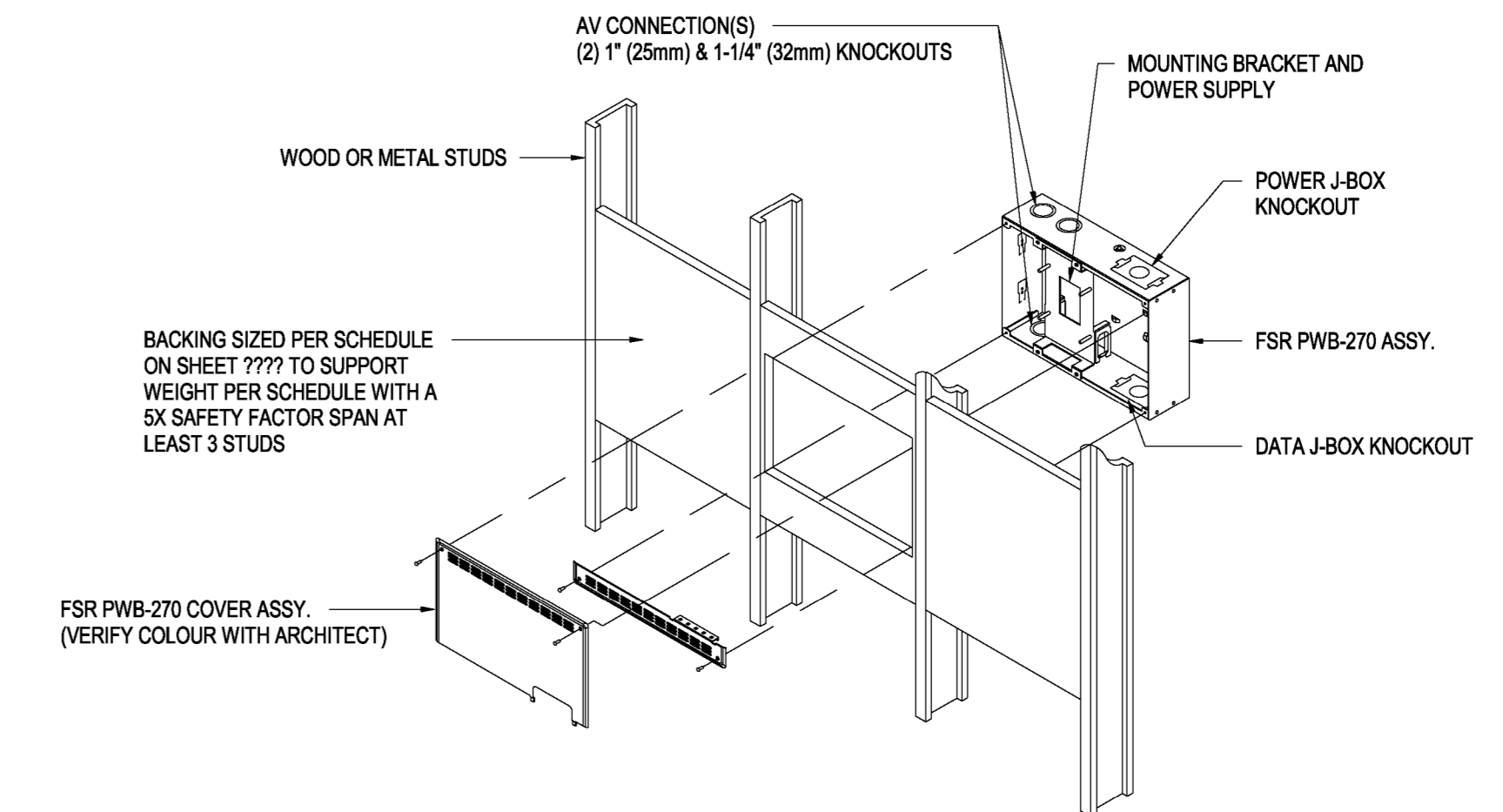


- NOTES:**
- NO OTHER TRADE ELEMENTS SHALL BE PERMITTED INSIDE CLEARANCE SPACE.
  - TRADE ELEMENTS RUNNING PARALLEL WITH TRAY SHALL NOT BE PERMITTED IN CLEARANCE SPACE. HOWEVER, TRADE ELEMENTS PERIODICALLY CROSSING THE LADDER TRAY (I.E. PERPENDICULAR) SHALL BE PERMITTED WITHIN CLEARANCE SPACE.
  - TRADE ELEMENTS RUNNING PARALLEL WITH TRAY SHALL NOT BE PERMITTED WITHIN CLEARANCE SPACE. HOWEVER, TRADE ELEMENTS RUNNING VERTICAL AND PERPENDICULAR TO TRAY, SHALL BE PERMITTED TO PERIODICALLY CROSS CLEARANCE SPACE.
  - TRADE ELEMENTS RUNNING PARALLEL WITH TRAY SHALL NOT BE PERMITTED WITHIN CLEARANCE SPACE. HOWEVER, TRADE ELEMENTS RUNNING VERTICAL, SHALL BE PERMITTED TO PERIODICALLY CROSS CLEARANCE SPACE.

**2 TYPICAL TRAY CLEARANCES**  
T701 N.T.S.

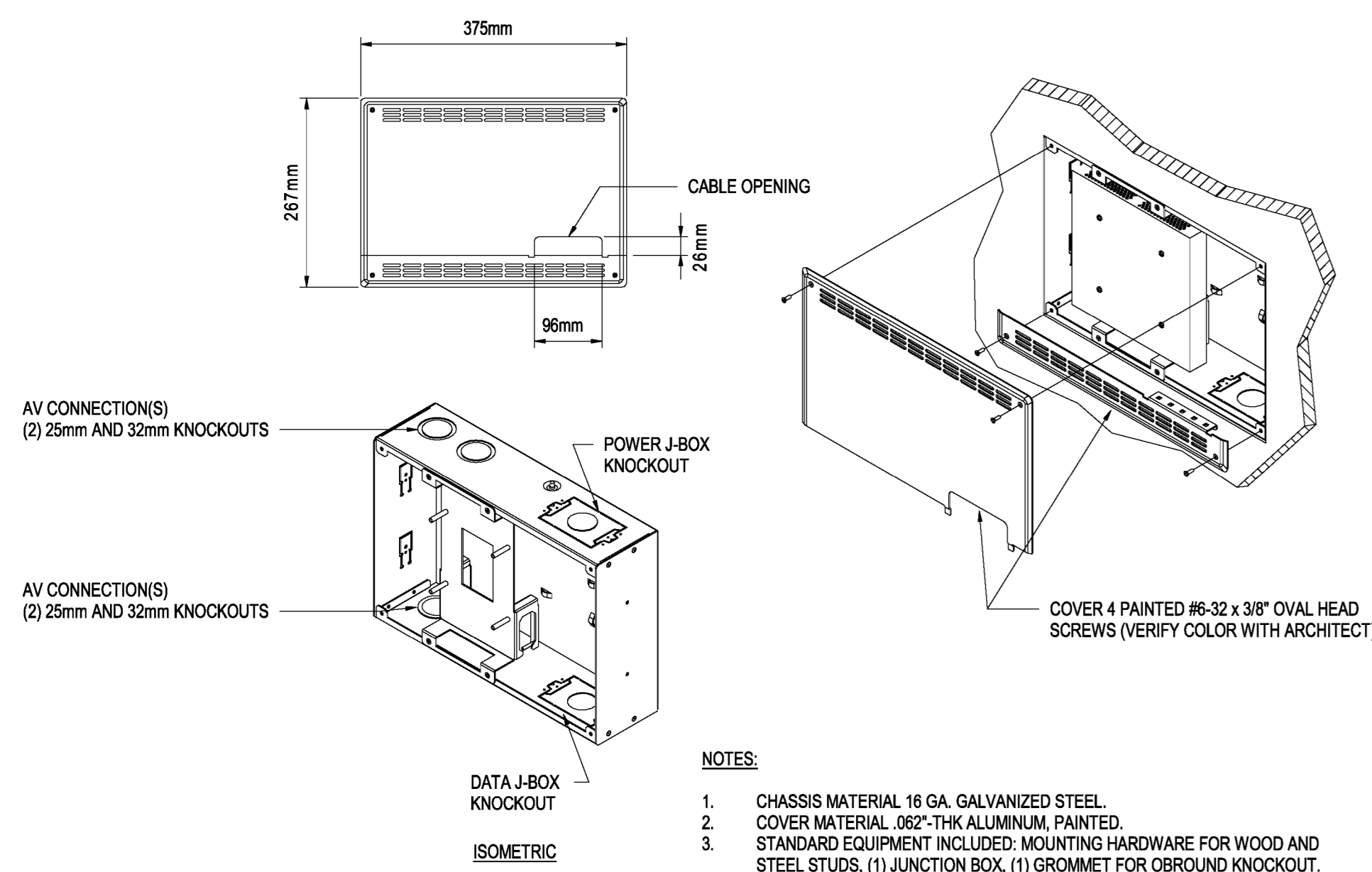


**7 WALL BOX - FSR PWB-270**  
T701 N.T.S.



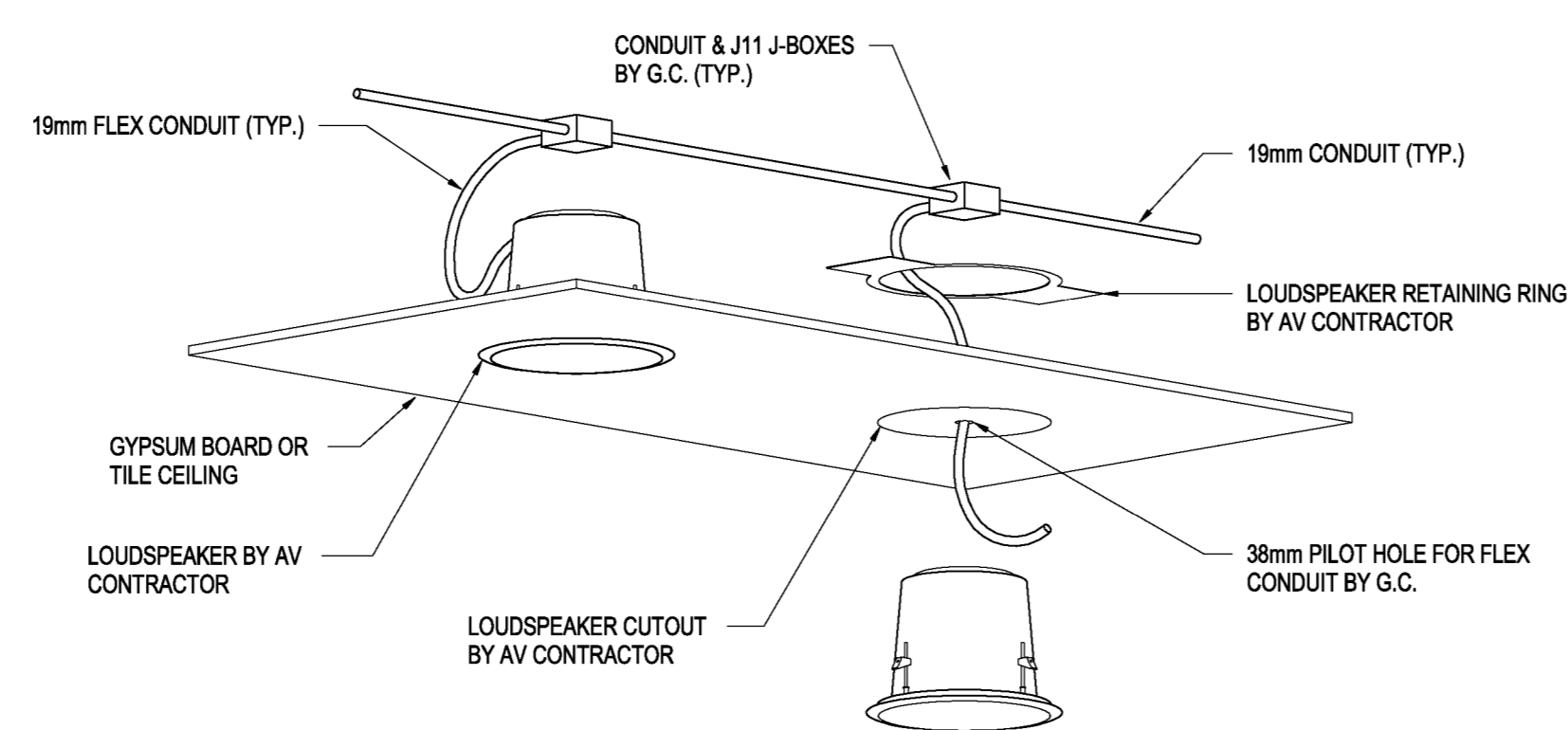
- NOTES:**
- BACKING AND J-BOX FOR WALL MOUNTED FLAT PANEL DISPLAY.
  - BACKING MUST BE MIN 45°N (1219mm) AND 24" (610mm) WITH J-BOX CENTERED AT LOCATION.
  - ALWAYS SPAN BETWEEN AT LEAST THREE STUDS.
  - SEE PARTITION TYPES FOR STUD SIZE AND GAUGE.
  - VERIFY LOCATIONS OF BACKING PLATES WITH PLANS & ROOM ELEVATIONS.
  - PROVIDE PWB-270-SLD ABANDONMENT COVER AT LOCATIONS MARKED "FUTURE". VERIFY COLOUR WITH ARCHITECT.
  - FLAT PANEL DISPLAYS AND MOUNTING BRACKETS BY AV CONTRACTOR.

**1 BACK BOX DETAIL FOR WALL MOUNTED FLAT PANEL DISPLAY**  
T701 N.T.S.



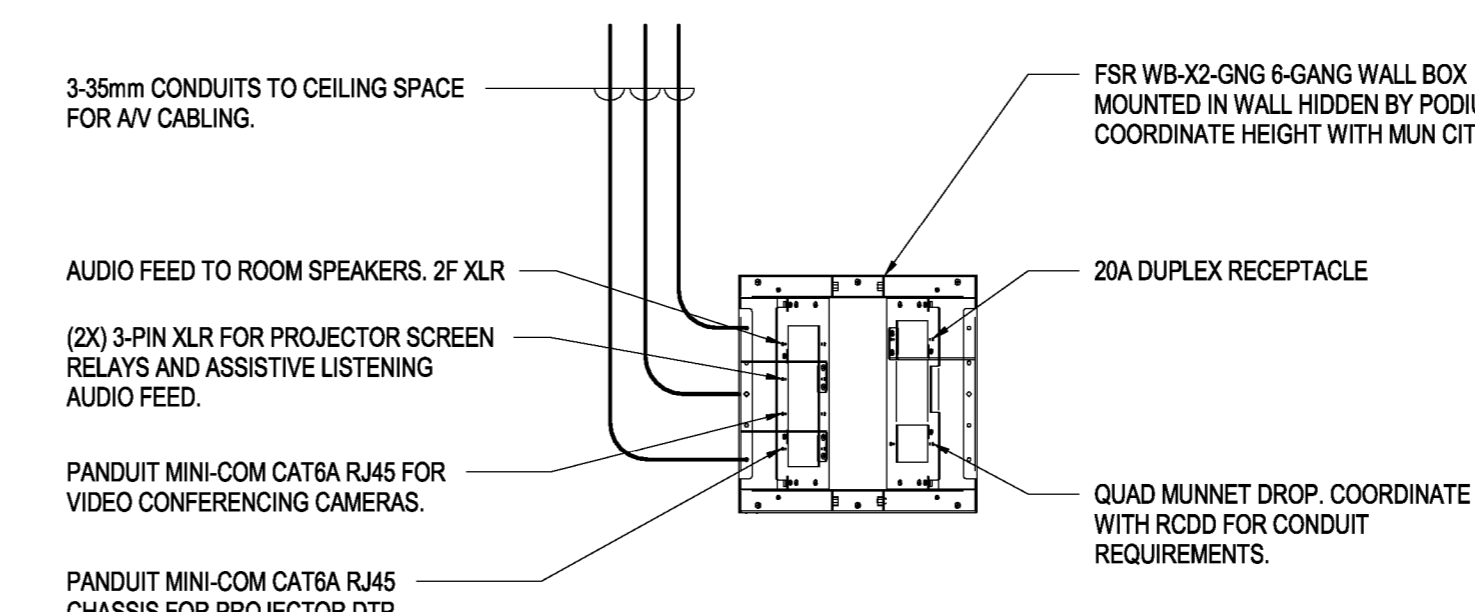
- NOTES:**
- CHASSIS MATERIAL 16 GA. GALVANIZED STEEL.
  - COVER MATERIAL .062" THK ALUMINUM, PAINTED.
  - STANDARD EQUIPMENT INCLUDES: MOUNTING HARDWARE FOR WOOD AND STEEL STUDS, (1) JUNCTION BOX, (1) GROMMET FOR OBROUND KNOCKOUT.

**6 WALL BOX - FSR PWB-270 INSTALLATION**  
T701 N.T.S.

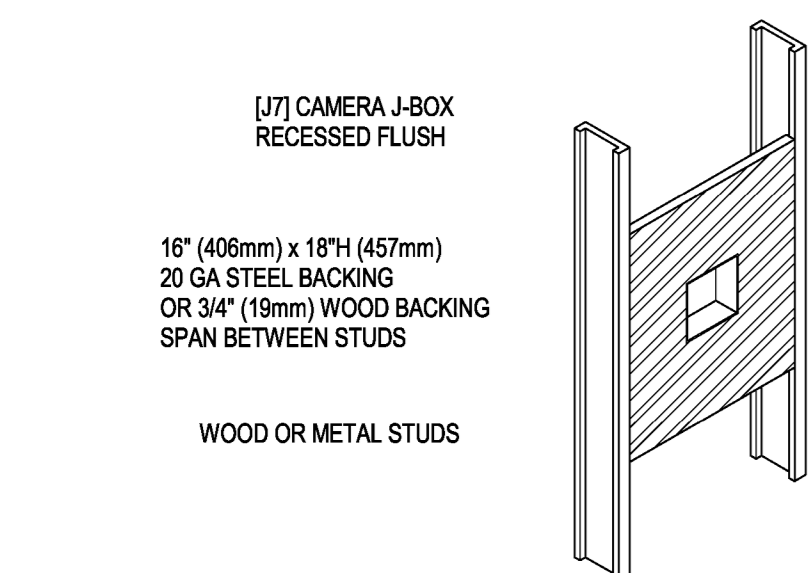


- NOTES:**
- G.C. TO POSITION J11 PULL BOXES DIRECTLY OVER LOUSPEAKER LOCATIONS, WITH COVER FACING DOWN. G.C. TO PROVIDE 38mm PILOT HOLE DIRECTLY BELOW WORKBOX (UNLESS OTHERWISE INDICATED ON PLANS). G.C. TO PROVIDE 1219mm LONG, 19mm FLEXIBLE CONDUIT FROM J11 PULL BOXES TO OTHER END OF FLEXIBLE CONDUIT AT NEXT LOUSPEAKER IN LINE.
  - AV CONTRACTOR WILL PROVIDE LOUSPEAKER, CABLING AND BACK-CAN AND WILL ENLARGE THE PILOT HOLE AT EACH LOCATION TO ACCEPT EACH LOUSPEAKER ASSEMBLY.

**5 LOUSPEAKER INSTALLATION FOR LAY-IN OR GYPSUM CEILING**  
T701 N.T.S.

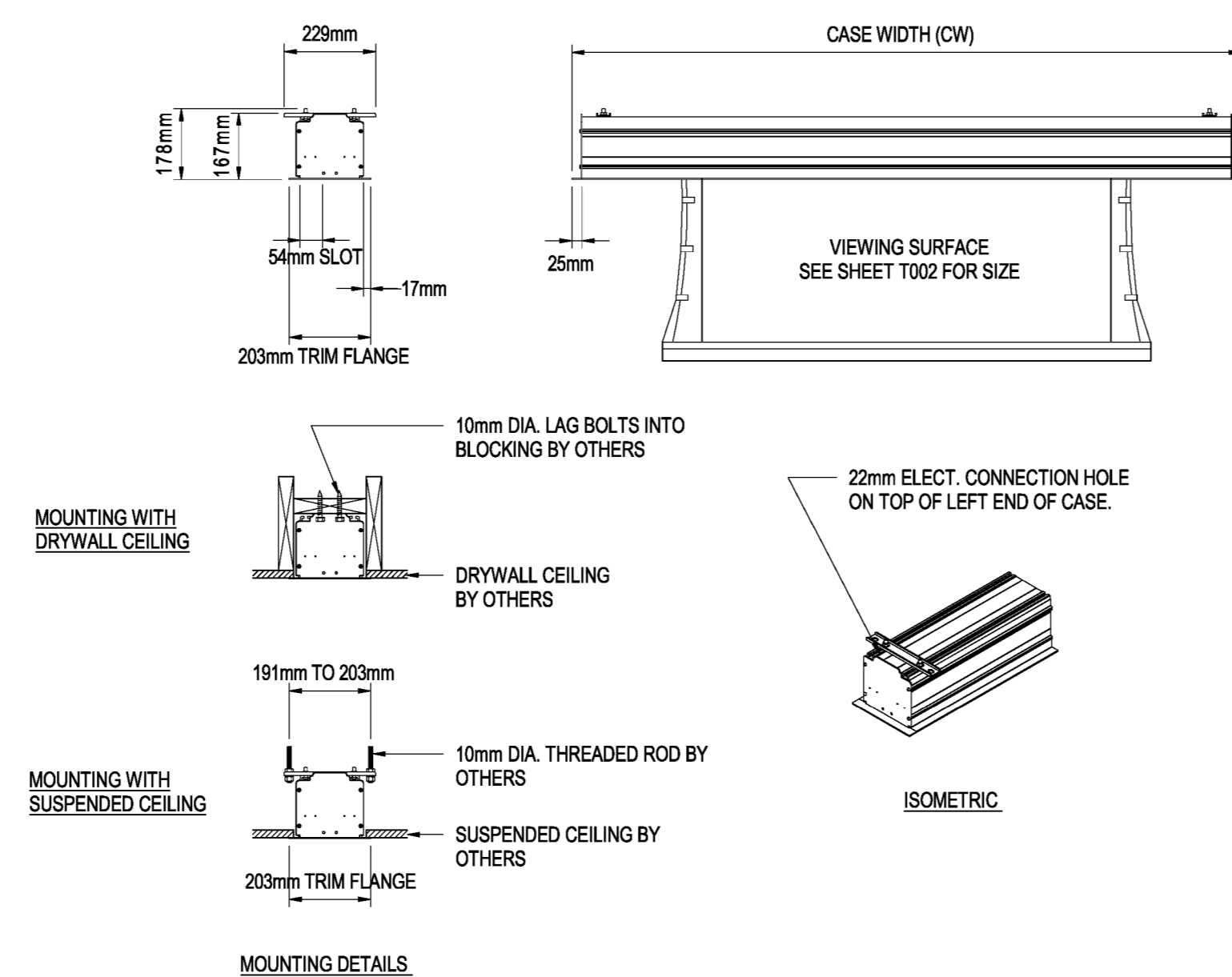


**8 PODIUM WALL BOX (TYPE "J1") DETAIL - DISTANCE LEARNING / CLASSROOM 5301G**  
T701 N.T.S.

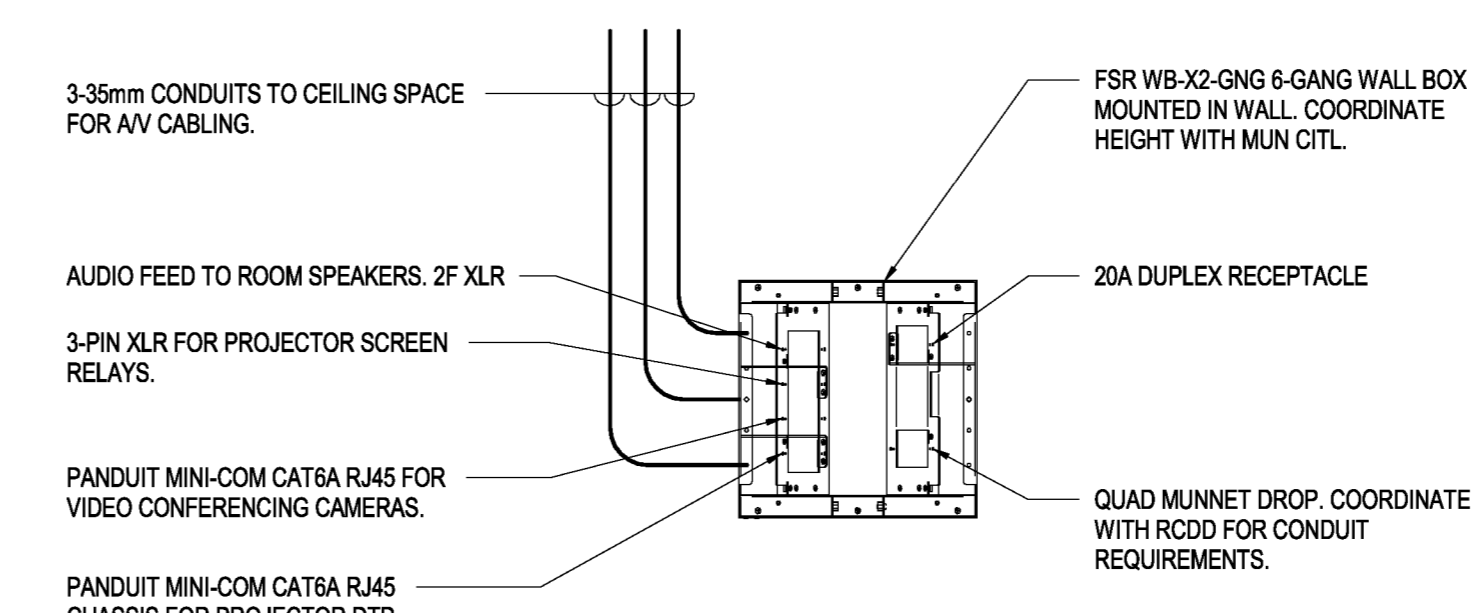


- NOTES:**
- BACKING AND J-BOX FOR WALL MOUNTED CAMERA.
  - SEE PARTITION TYPES FOR STUD SIZES AND GAUGE.
  - VERIFY LOCATIONS OF BACKING PLATES WITH TECHNOLOGY DRAWINGS.
  - FASTEN 20 GA STEEL FLUSH WITH FACE OF STUDS WITH #12 S.M.S.
  - FASTEN 3/4" (19mm) PL WOOD FLUSH WITH FACE OF STUDS.
  - ALWAYS SPAN BACKING BETWEEN TWO OR MORE STUDS.
  - CAMERA AND MOUNTING BRACKETS BY AV CONTRACTOR.

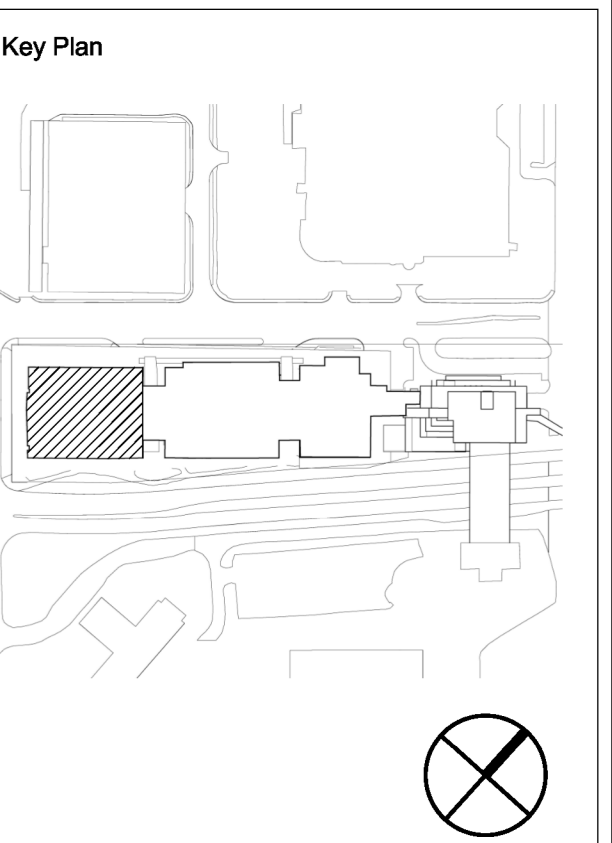
**4 BACKING - WALL MOUNTED CAMERA**  
T701 N.T.S.



**3 PROJECTION SCREEN - DRAPER ACCESS/SERIES V**  
T701 N.T.S.



**9 PODIUM WALL BOX (TYPE "J1") DETAIL - DISTANCE LEARNING / CLASSROOM 5301F**  
T701 N.T.S.



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Prepared For  
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ST. JOHN'S, NEWFOUNDLAND

Architect Prime Consultant:  
**FOUGERE MENCHENTON ARCHITECTURE**

Discipline:  
**ELECTRICAL**

Sub-Consultant: Mechanical and Electrical  
**JBC JEWELLER CONSULTANTS**

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Designed: E.D. Approved: D.C.

Consultants Project No.  
**JBC-22-C-106**

Professional Stamp & Permit  
**PEEG**  
Professional Engineer  
2023-02-13  
NEWFOUNDLAND & LABRADOR

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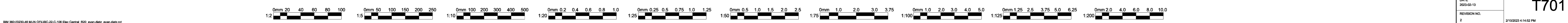
Detail/Section No. **3**  
Dwg. No. **A-1** where detailed

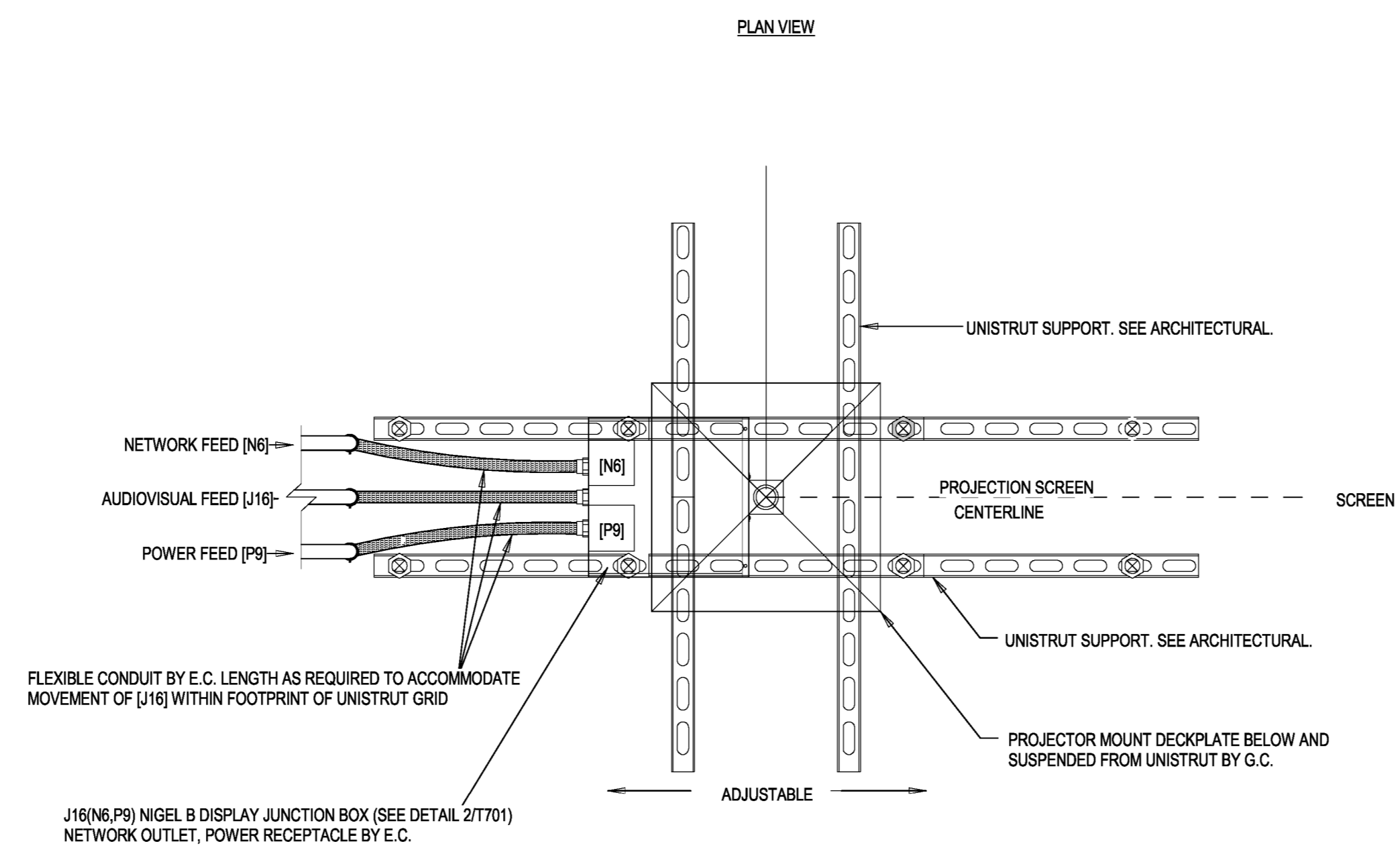
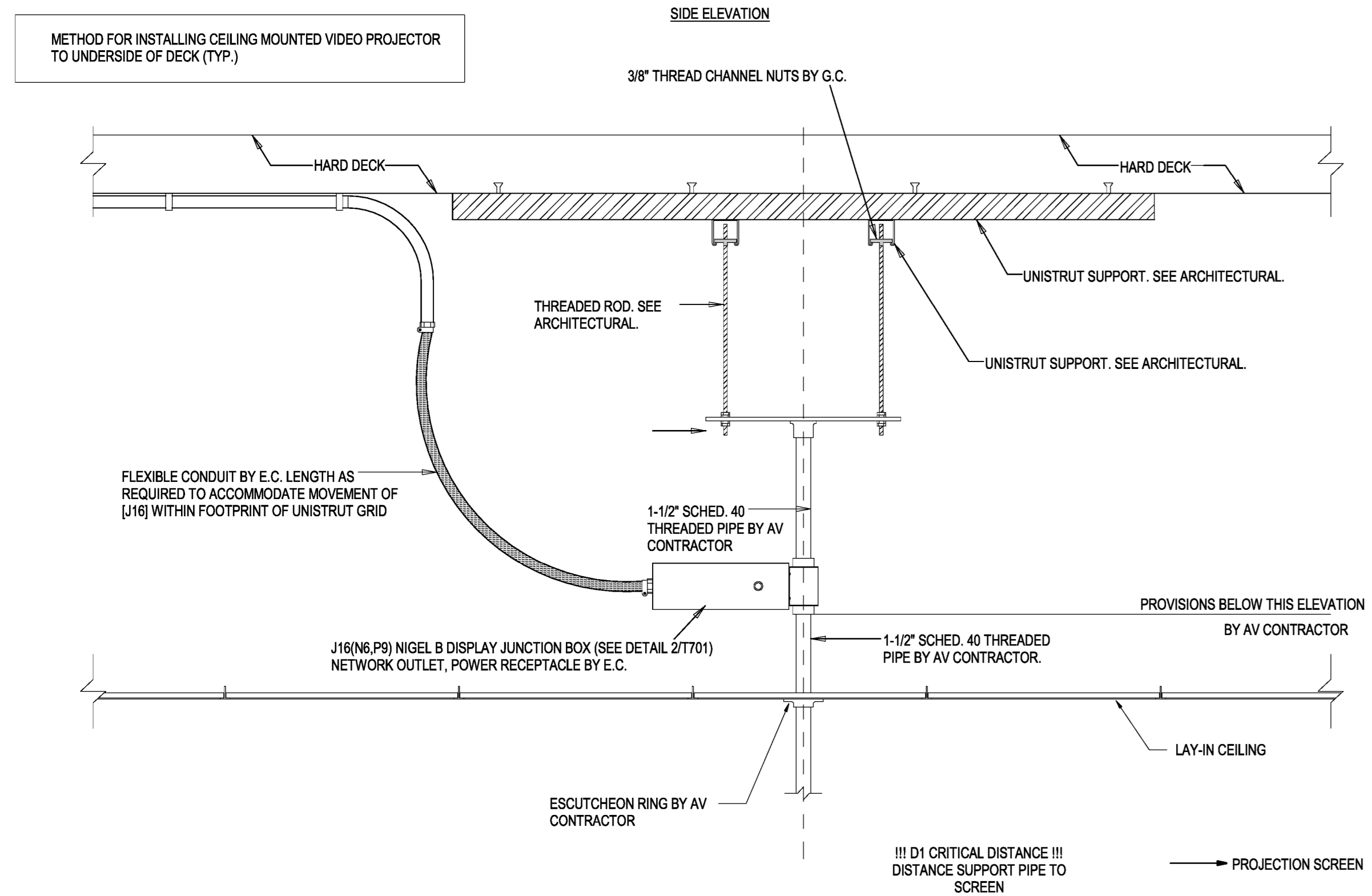
PROJECT TITLE  
**OFI FIT UP, PAV-A, LEVEL 5**

Client's Project No.: CSF-001-21

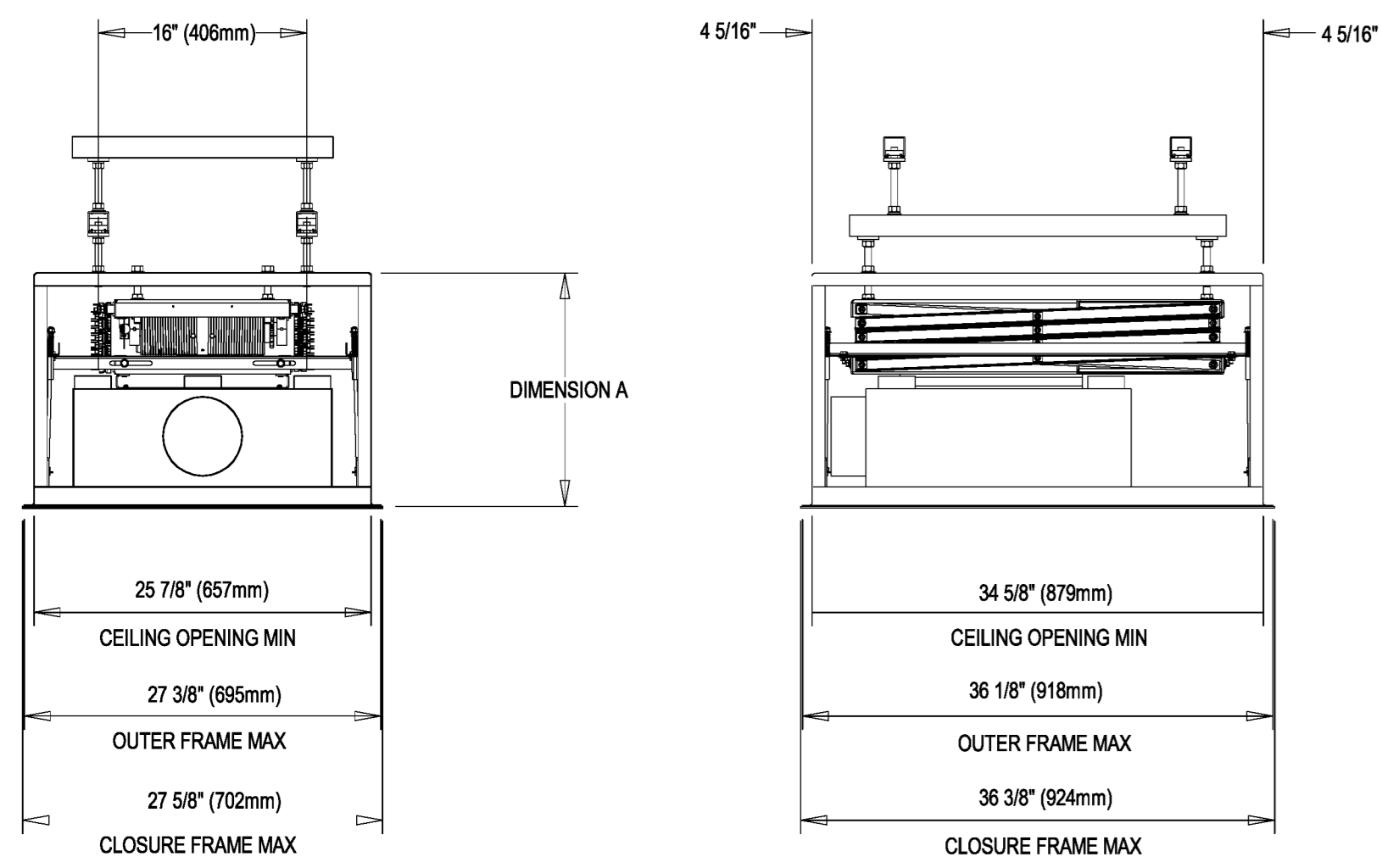
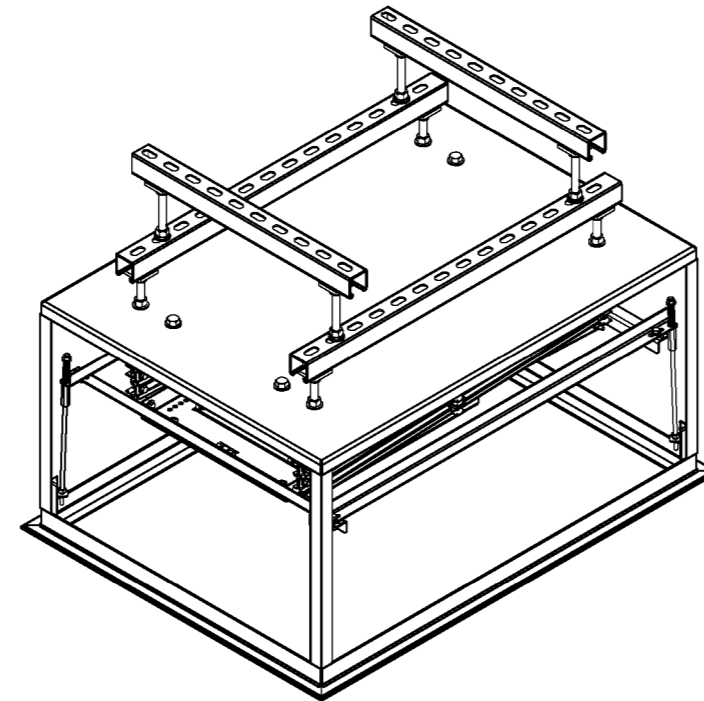
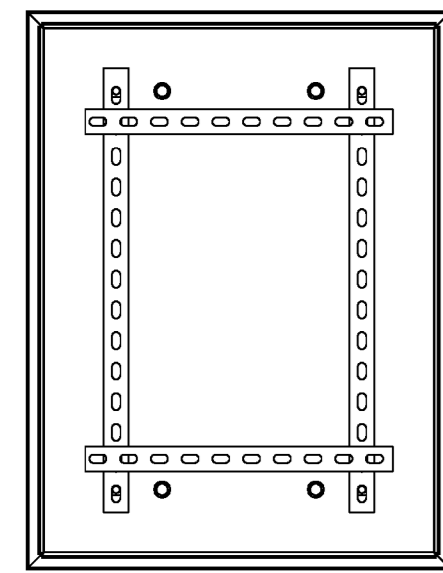
DRAWING TITLE  
**TECHNOLOGY INFRASTRUCTURE DETAILS**

SCALE: As Indicated  
DATE: 2023-02-13  
REVISION NO.: 2  
**T701**  
2/10/2023 4:14:52 PM





**1 CEILING MOUNTED VIDEO PROJECTOR SUPPORT ASSEMBLY**  
T702 N.T.S.



DL3B SIZE	DIMENSION A	
	INCHES	mm
DL3B-12.5	21.00	533

- NOTES:
1. SHOWN WITH PROJECTOR PROVIDED BY AV CONTRACTOR UNDER SEPERATE CONTRACT.
  2. UNISTRUT P1000 T CHANNEL AND 1/2\"/>

**2 DISPLAY DEVICES DL3B-12.5 PROJECTOR LIFT**  
T702 N.T.S.

Key Plan

Client:

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Consultants Project No.  
**JBC-22-C-106**

Professional Stamp & Permit  
**PEG**  
Professional Engineer  
Newfoundland & Labrador  
*[Signature]*  
2023-02-13

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No.	Revisions	MMDDYY

Drawing Nomenclature

Detail/Section No. **3**  
**A-1** ← Dwg. No. where detailed

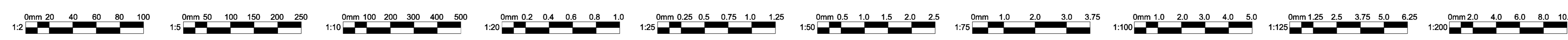
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**OFI FIT UP, PAV-A, LEVEL 5**

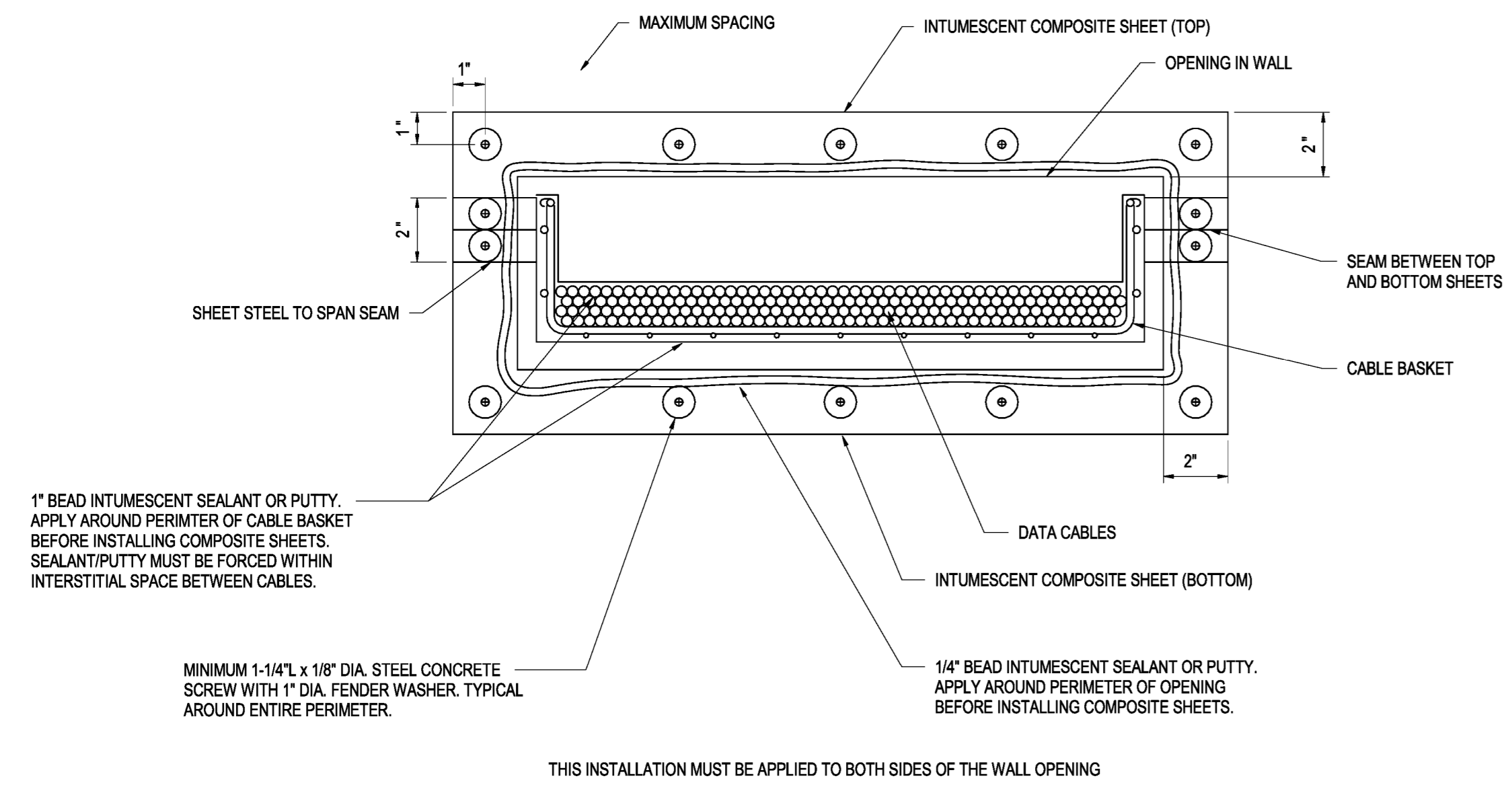
Client's Project No.: CSF-001-21

DRAWING TITLE  
**TECHNOLOGY INFRASTRUCTURE DETAILS**

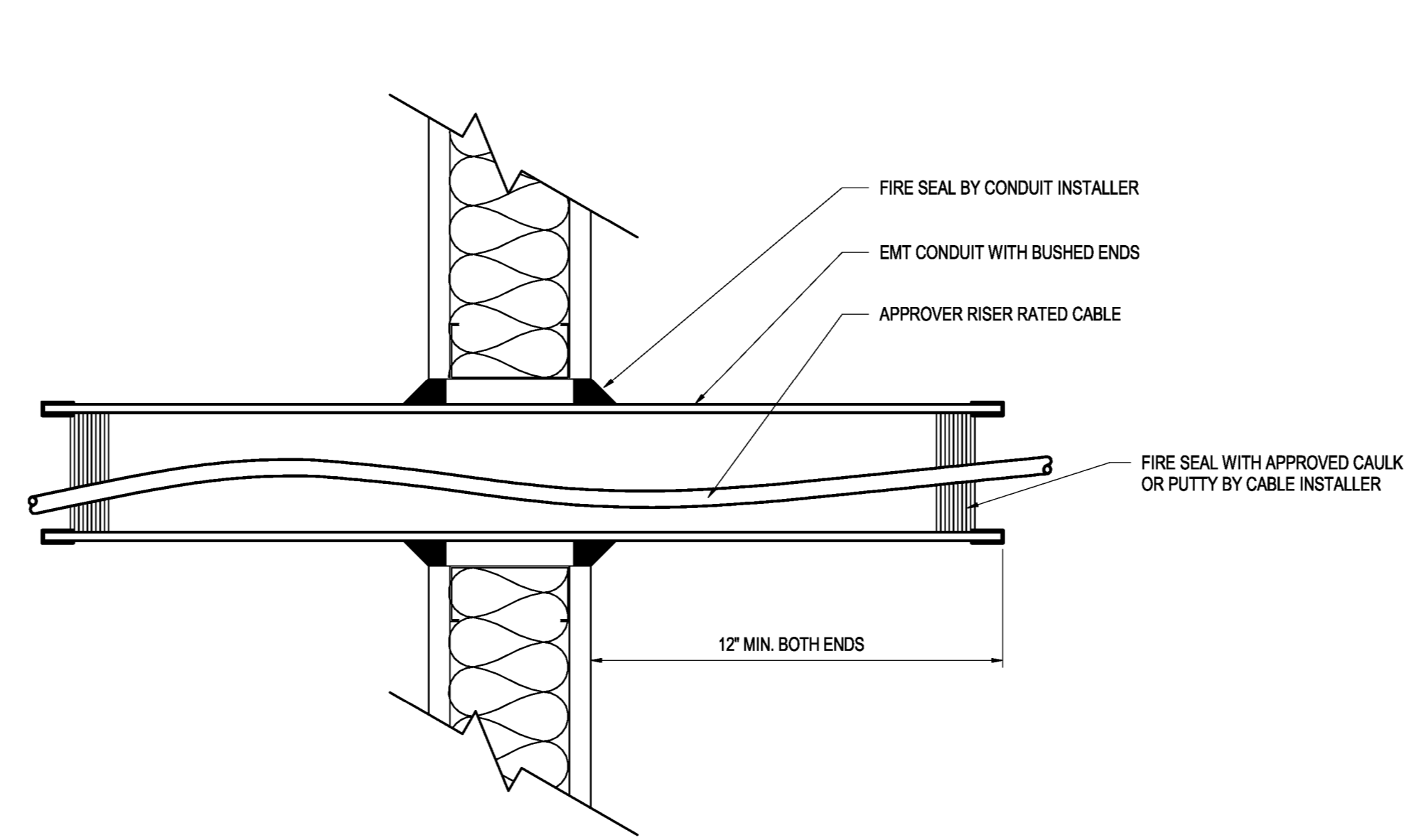
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DATE: 2023-02-13  
REVISION NO.: 2

DRAWING NO.: **T702**  
2/10/2023 4:14:54 PM

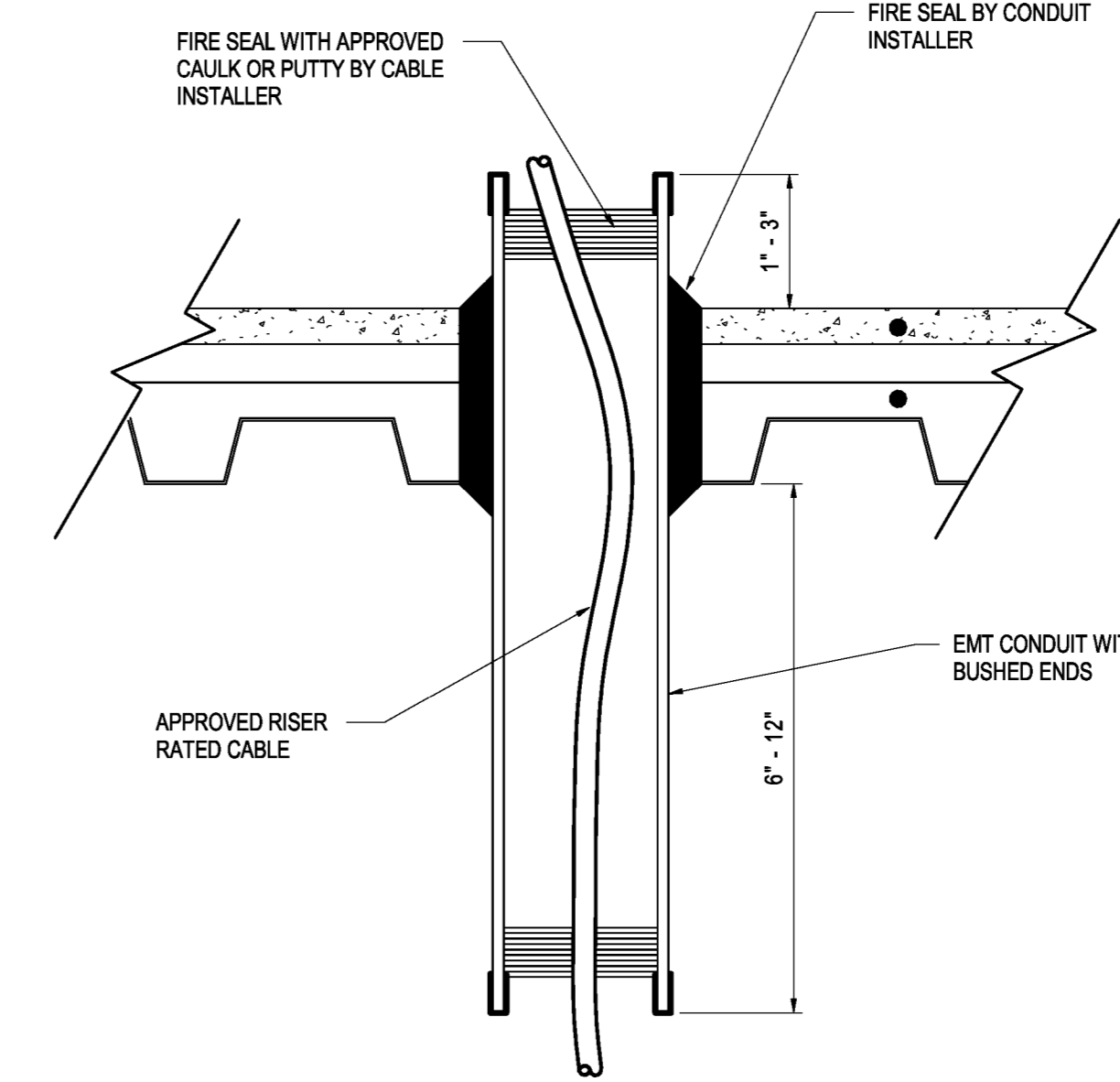




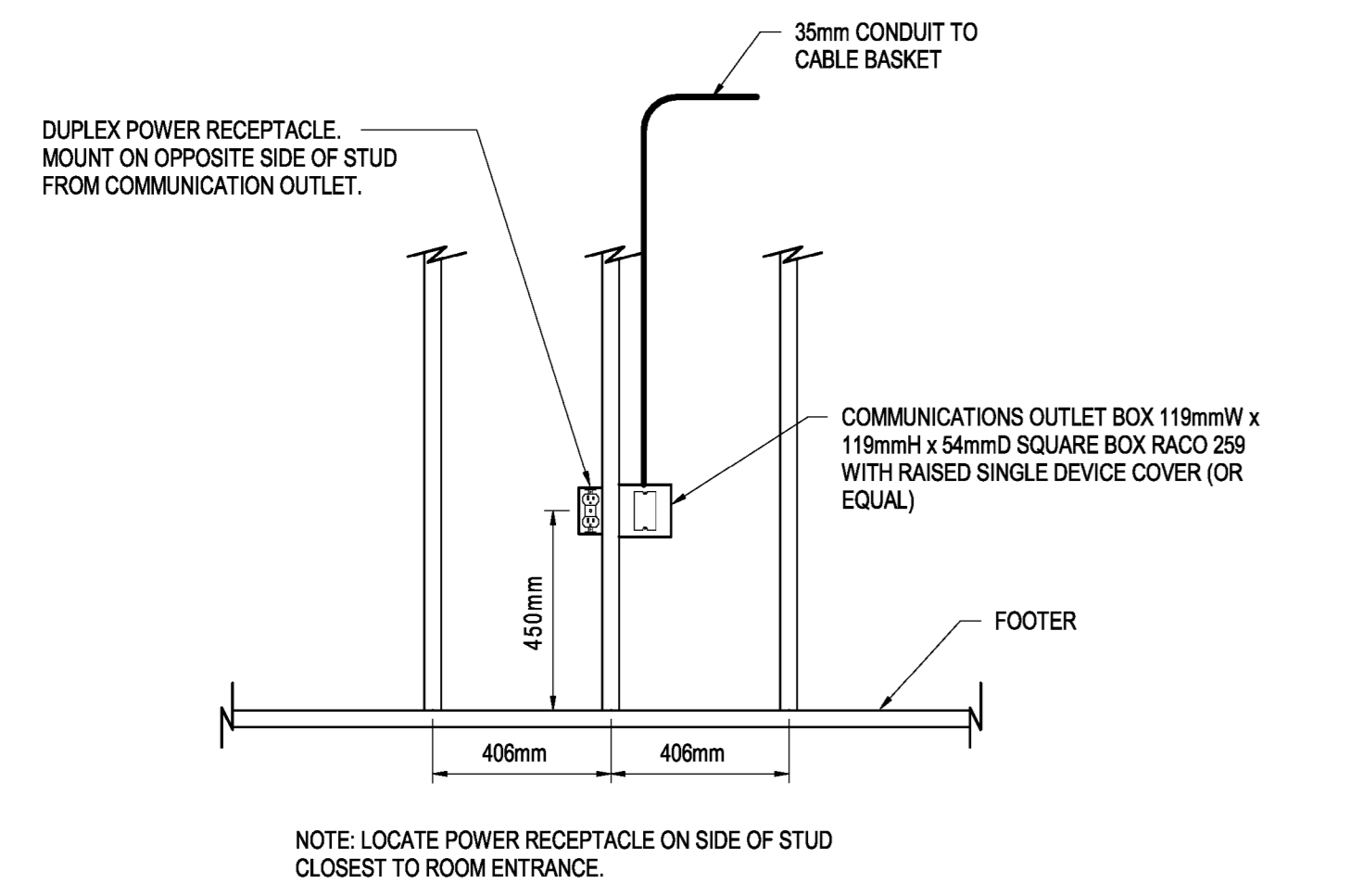
**1 PENETRATION OF RATED PARTITION CABLE BASKET WITH CABLE**  
T711 N.T.S.



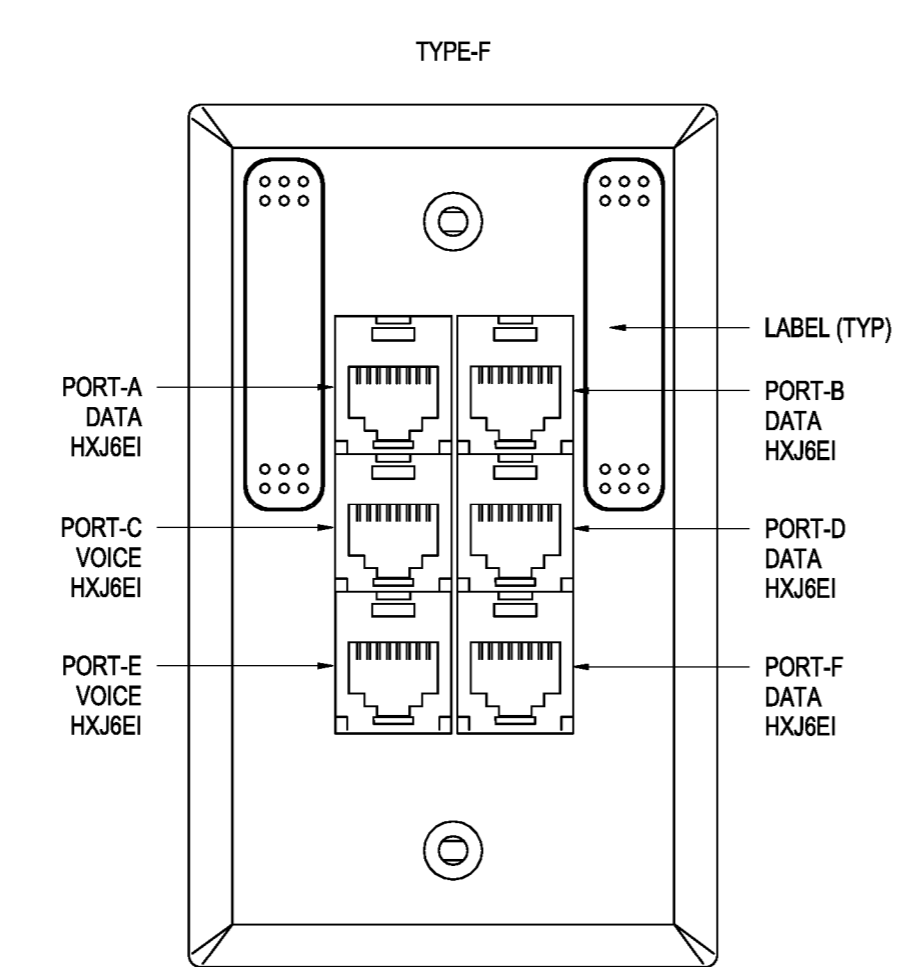
**2 PENETRATION OF RATED PARTITION CONDUIT WITH CABLE HORIZONTAL**  
T711 N.T.S.



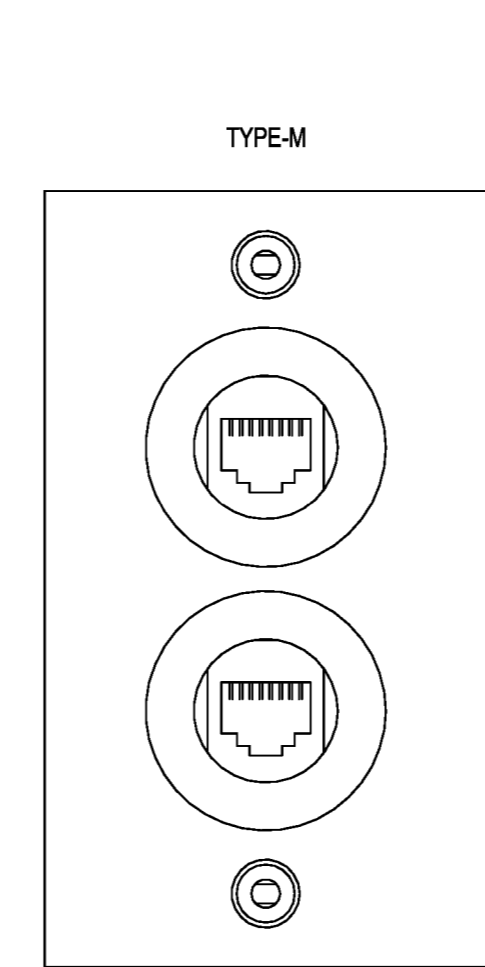
**3 PENETRATION OF RATED PARTITION CONDUIT WITH CABLE VERTICAL**  
T711 N.T.S.



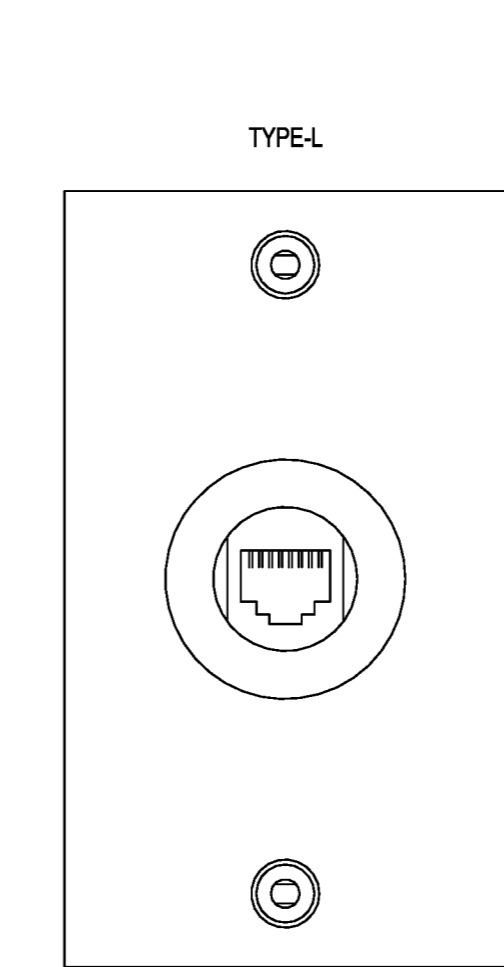
**4 OFFICE COMMUNICATIONS OUTLET AND ASSOCIATED POWER RECEPTACLE**  
T711 N.T.S.



**5 FACEPLATE TYPE F**  
T711 N.T.S.

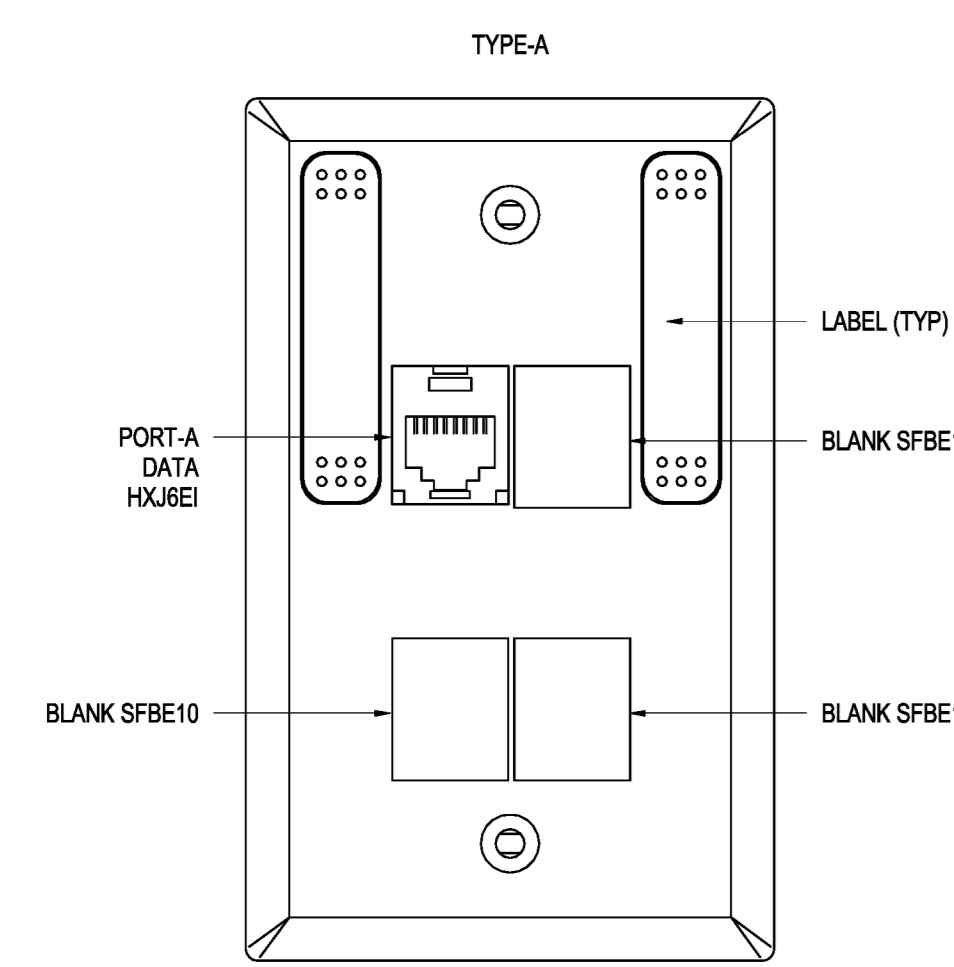


**6 FACEPLATE TYPE M (IP67)**  
T711 N.T.S.

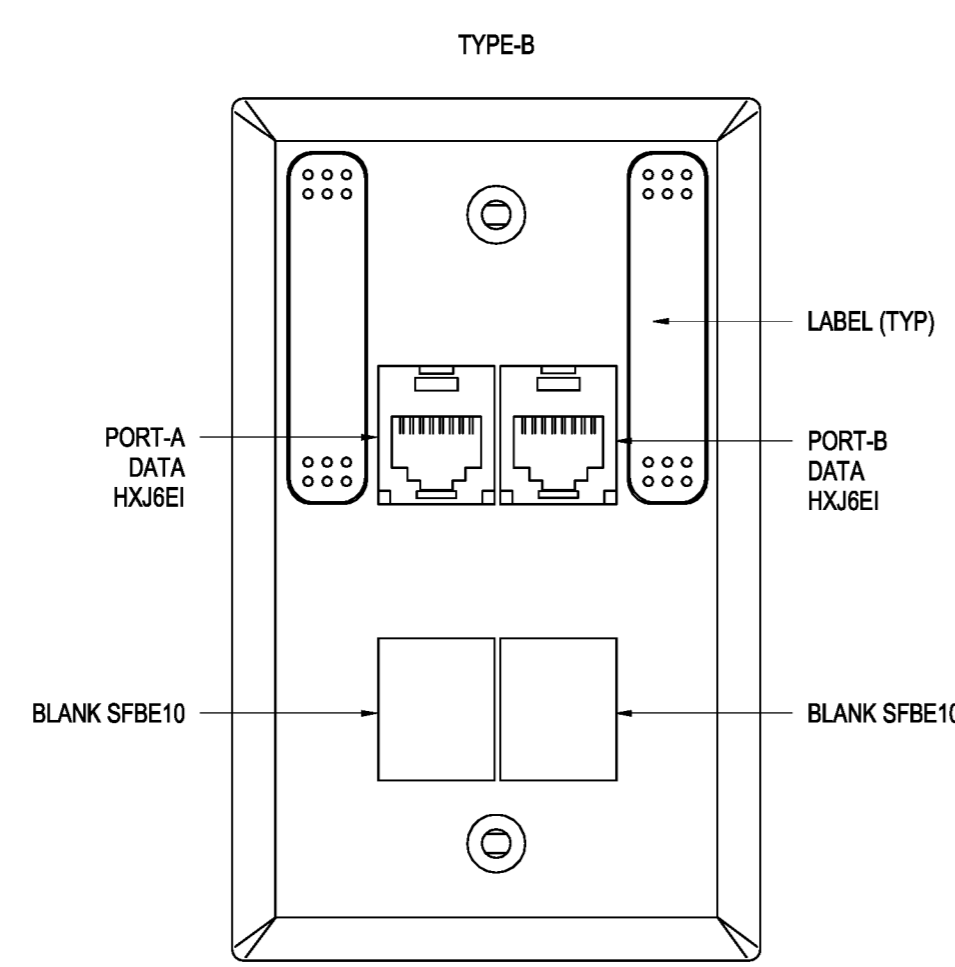


**7 FACEPLATE TYPE L (IP67)**  
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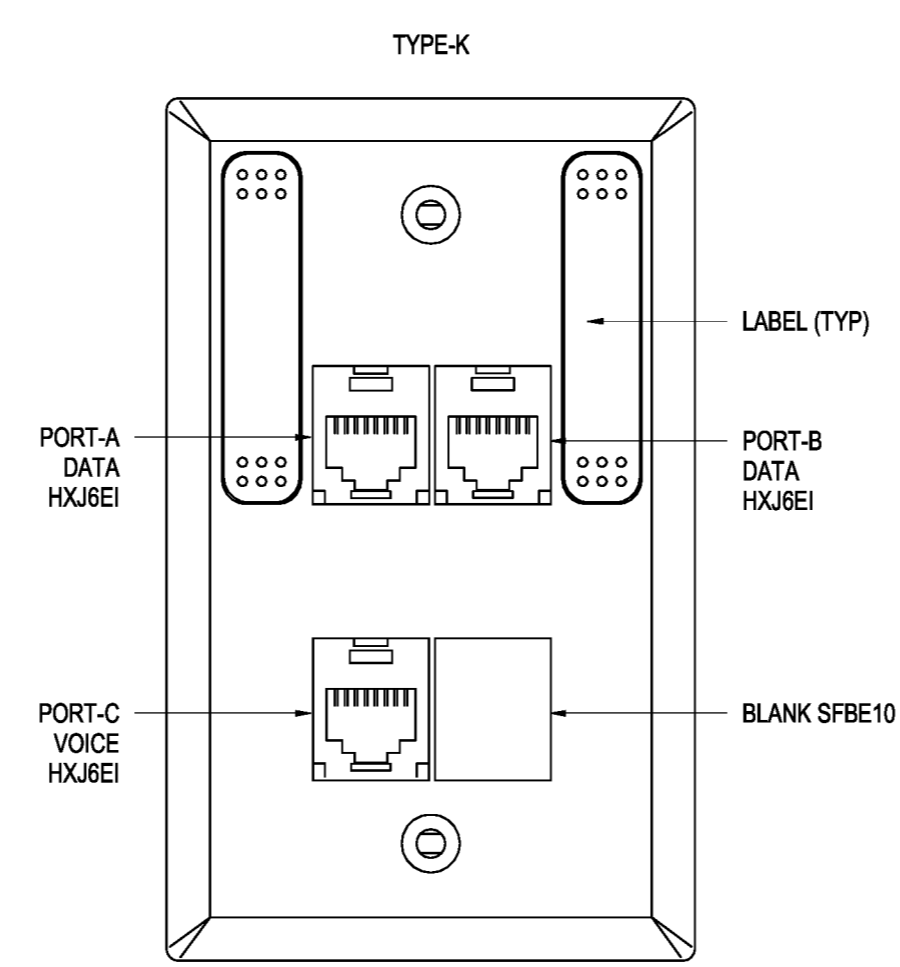
NOTE:  
REFER TO SPECIFICATION SECTION 27 06 53 FOR ADDITIONAL LABELLING REQUIREMENTS.



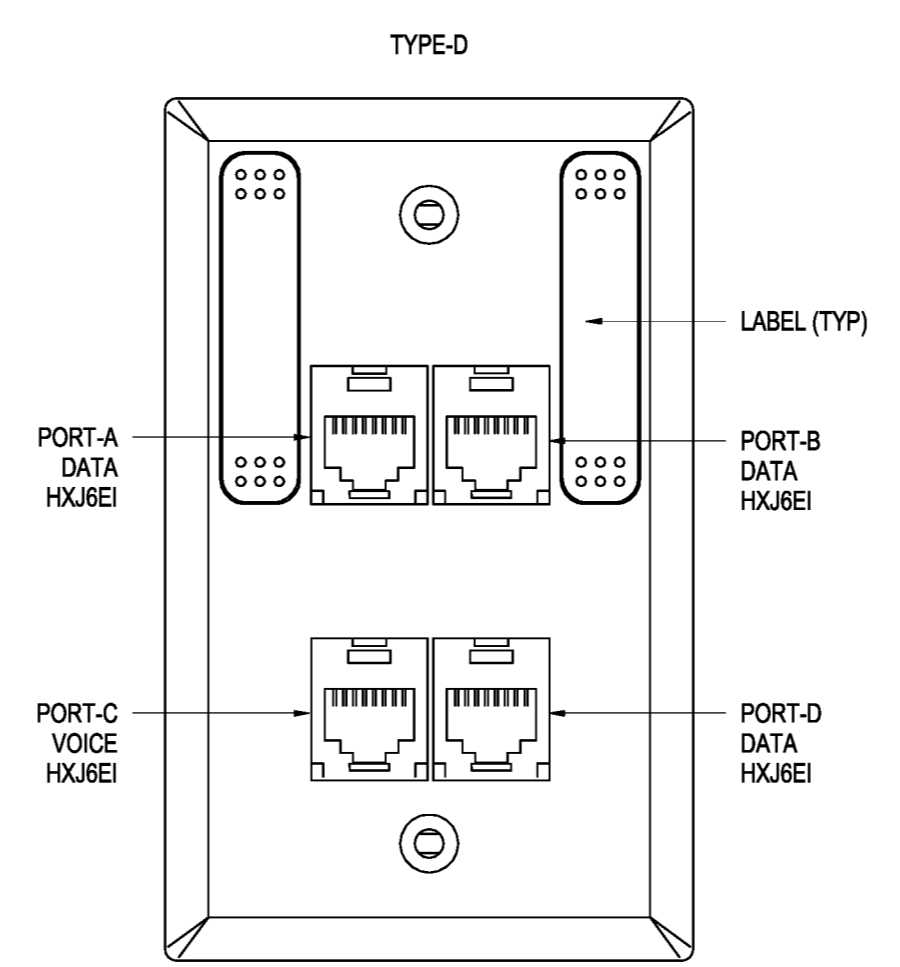
**8 FACEPLATE TYPE A**  
T711 N.T.S.



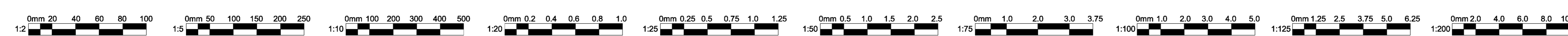
**9 FACEPLATE TYPE B**  
T711 N.T.S.



**10 FACEPLATE TYPE K**  
T711 N.T.S.



**4 FACEPLATE TYPE D**  
T711 N.T.S.



Client:  
**MEMORIAL UNIVERSITY**  
Department of Facilities Management  
This University was raised by the people of Newfoundland as a memorial to the fallen in the great wars, 1914-1918, 1939-1945, that in freedom of learning, their cause and sacrifice might not be forgotten.  
- Dedication plaque, Arts & Administration Building, St. John's Campus

Prepared For  
**MEMORIAL UNIVERSITY OF NEWFOUNDLAND ST. JOHN'S, NEWFOUNDLAND**

Architect Prime Consultant:  
**FOUGERE MENCHENTON ARCHITECTURE**

Discipline:  
**ELECTRICAL**  
Sub-Consultant: Mechanical and Electrical

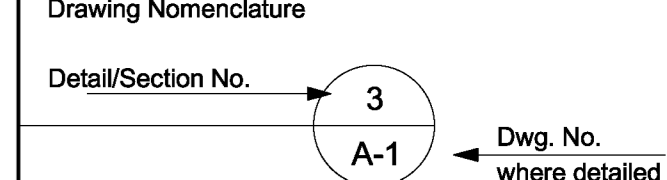
JBC JEWELL CONSULTANTS  
CONSULTANTS

PROVINCE OF NEWFOUNDLAND AND LABRADOR  
PERMIT HOLDER  
This Permit Allows  
JEWELL CONSULTANTS S.L.C.  
M.B.C. 10157  
To practice Professional Engineering in Newfoundland and Labrador  
Permit No. as issued by PEG 80540 which is valid for the year 2023.

Drawn: E.D. Checked: D.C.  
Designed: E.D. Approved: D.C.  
Consultants Project No.  
**JBC-22-C-106**  
Professional Stamp & Permit  
PEGL  
Professional Engineer  
Newfoundland & Labrador  
2023-02-13

Notes:  
1. DO NOT SCALE FROM THIS DRAWING.  
2. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN MILLIMETRES.  
3. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS ON SITE PRIOR TO PROCEEDING WITH ANY PORTION OF THIS WORK.  
4. CONTRACTOR SHALL DO ALL WORK IN ACCORDANCE WITH THE APPLICABLE STANDARDS AND CODES INCLUDING, BUT NOT LIMITED TO, THE NATIONAL BUILDING CODE OF CANADA.

2	ISSUED FOR CONSTRUCTION	2023-02-13
1	ISSUED FOR ADDENDUM #2	2022-12-14
0	ISSUED FOR TENDER	2022-12-01
D	ISSUED FOR 80% REVIEW	2022-09-30
C	ISSUED FOR 30% REVIEW	2022-09-08
B	ISSUED FOR REVIEW	2022-08-19
A	ISSUED FOR 50% DD	2022-08-09
No.	Revisions	MM/DD/YY

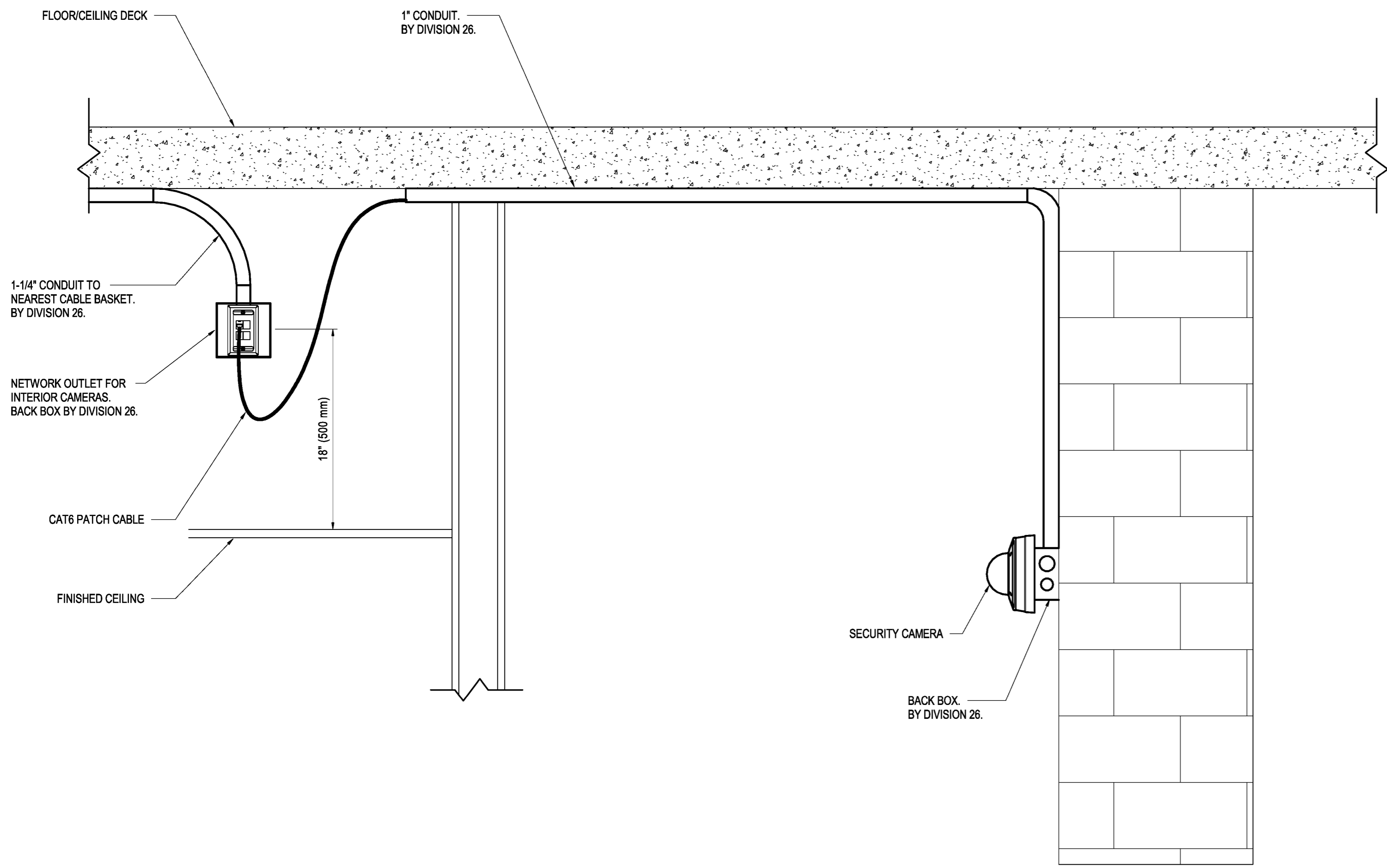


PROJECT TITLE  
**OFI FIT UP, PAV-A, LEVEL 5**

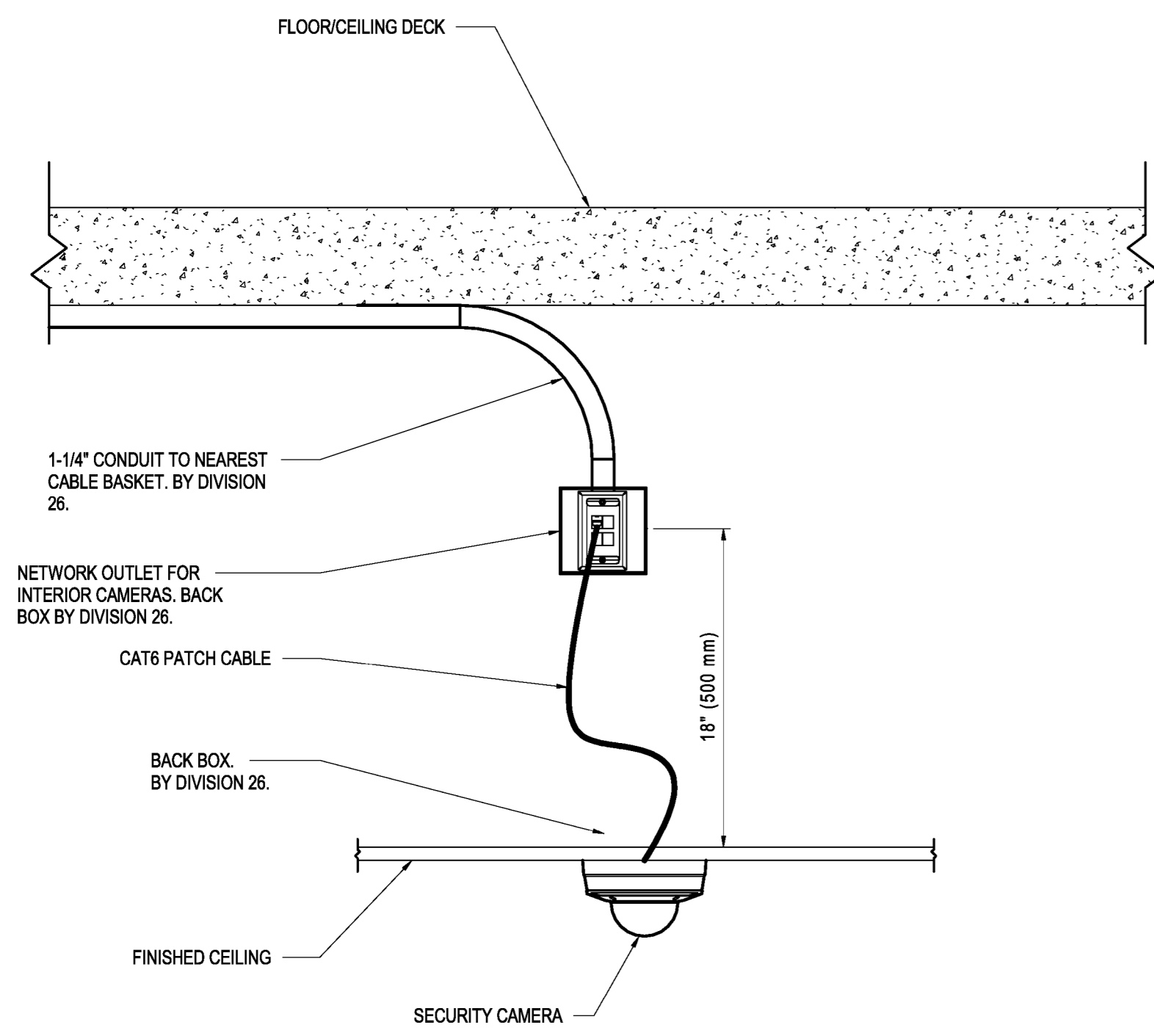
Client's Project No.: CSF-001-21

DRAWING TITLE  
**TELECOMMUNICATIONS DETAILS**

SCALE As Indicated	DRAWING NO. T711
DATE 2023-02-13	2/10/2023 4:14:55 PM
REVISION NO. 2	



**1** FIXED DOME CAMERA - INTERIOR WALL SURFACE MOUNT  
T721 N.T.S.

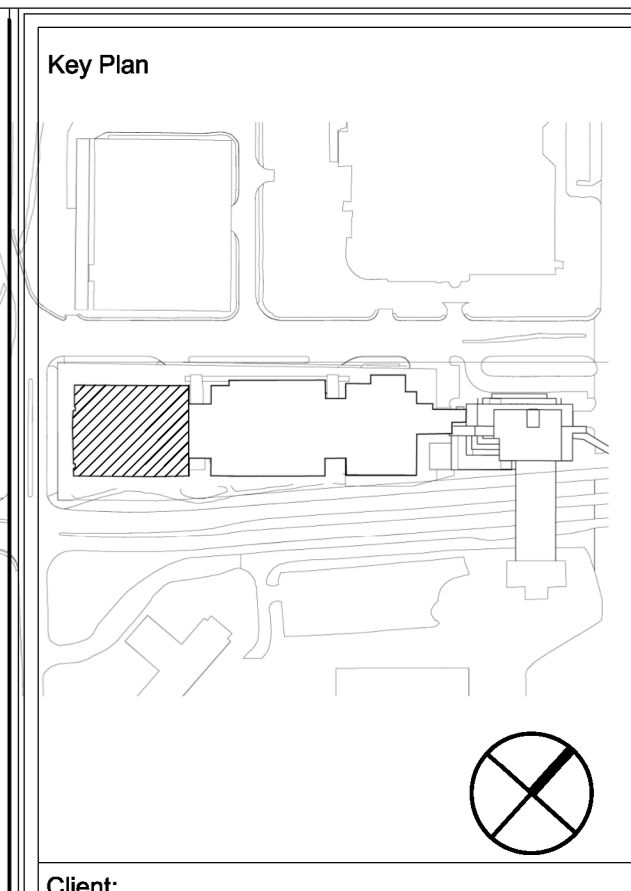


**2** FIXED DOME CAMERA - INTERIOR CEILING FLUSH MOUNT  
T721 N.T.S.

COMPONENT LEGEND - OPTICAL FIBER	
	RACK MOUNT OPTICAL FIBER PANEL, PER DIV. 27 SPECIFICATION

CABLE SCHEDULE - OPTICAL FIBER	
DESIGNATION	CABLE CONFIGURATION
①	(24) STRAND SINGLEMODE OPTICAL FIBER
②	(12) STRAND SINGLEMODE OPTICAL FIBER
③	(48) STRAND SINGLEMODE OPTICAL FIBER

GENERAL NOTES - OPTICAL FIBER	
1.	ALL CABLES SHALL BE ROUTED IN CABLE BASKET AND CONDUITS AS SHOWN ON PLANS/RISER DIAGRAMS AND INSTALLED BY DIV. 26 CONTRACTOR.
2.	REFER TO DIV. 27 SPECIFICATION SECTIONS FOR ADDITION INFO REGARDING CABLE ASSEMBLIES.



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Prepared For  
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ST. JOHN'S, NEWFOUNDLAND

Architect Prime Consultant:  
**FOUGERE MENCHENTON ARCHITECTURE**

Discipline:  
**ELECTRICAL**  
Sub-Consultant: Mechanical and Electrical  
**JBC JEWEL BAILEY CONSULTANTS**

PROVINCE OF NEWFOUNDLAND AND LABRADOR  
**PERMIT HOLDER**  
This Permit Allows  
**JEWEL BAILEY CONSULTANTS LTD.**  
M.B.C. 95347 02  
To practice Professional Engineering in Newfoundland and Labrador  
Permit No. as issued by PEG 80540 which is valid for the year 2023.

Drawn: E.D. Checked: D.C.  
Designed: E.D. Approved: D.C.

Consultants Project No.  
**JBC-22-C-106**

Professional Stamp & Permit  
**PEG**  
Professional Engineer  
Newfoundland & Labrador  
2023-02-13

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Drawing Nomenclature  
Detail/Section No. **3**  
**A-1** ← Dwg. No. where detailed

PROJECT TITLE  
**OFI FIT UP, PAV-A, LEVEL 5**

Client's Project No.: CSF-001-21

DRAWING TITLE  
**SECURITY DETAILS**

SCALE  
N.T.S.  
DATE  
2023-02-13  
REVISION NO.  
2  
**T721**  
2/10/2023 4:14:56 PM

