



ELECTRICAL LEGEND

POWER DISTRIBUTION

- JUNCTION BOX.
- OUTLET BOX.
- MANUAL MOTOR STARTER. NEMA RATED.
- COMBINATION TYPE MAGNETIC MOTOR STARTER. NEMA RATED
- SAFETY DISCONNECT SWITCH SIZED TO SUIT. NEMA RATED
- FUSED SAFETY DISCONNECT SWITCH SIZED TO SUIT. NEMA RATED
- VARIABLE FREQUENCY DRIVE
- SINGLE-PHASE MOTOR.
- DIRECT CONNECTION TO MECHANICAL EQUIPMENT.
- DIRECT CONNECTION TO ELECTRICAL EQUIPMENT OR SPECIAL RECEPTACLE AS NOTED.
- FLEXIBLE CONNECTION TO EQUIPMENT.
- RECESSED MOUNTED ELECTRICAL PANEL.
- SURFACE MOUNTED ELECTRICAL PANEL.
- D.C. WIRING.
- A.C. WIRING. SHORT LINE INDICATES PHASE CONDUCTOR, LONG LINE INDICATES NEUTRAL CONDUCTOR, DASHED LINE INDICATES GROUND CONDUCTOR.
- LOW VOLTAGE WIRING.
- EMERGENCY STOP PUSHBUTTON STATION.

HEATING DEVICES

- LINE VOLTAGE 120V REVERSE ACTING (COOLING) THERMOSTAT. MOUNT 1200mm AFF.
- ELECTRIC HEATING UNIT TYPE 'A' 1000 WATTS. CONNECTED TO PANEL 'A' CIRCUIT NO. 1(3). MOUNTED 100mm AFF (WHERE APPLICABLE).
- ELECTRIC UNIT HEATER TYPE 'C' 1500 WATTS. CONNECTED TO PANEL 'A' CIRCUIT NO. 1(3). (CEILING MOUNTED).
- MOTORIZED DAMPER. REFER TO MECHANICAL DRAWINGS.

FIRE ALARM

- FIRE ALARM PULL STATION.
- HEAT DETECTOR, COMBINATION RATE OF RISE, FIXED TEMPERATURE. 58°C.
- STROBE STYLE FIRE ALARM SIGNAL. WALL MOUNTED.
- STROBE STYLE FIRE ALARM SIGNAL. CEILING MOUNTED.
- STROBE/HORN STYLE FIRE ALARM SIGNAL. WALL MOUNTED.
- STROBE/HORN STYLE FIRE ALARM SIGNAL. CEILING MOUNTED.
- END OF LINE RESISTOR.
- VALVE MONITOR.
- PRESSURE SWITCH.
- FLOW SWITCH.
- ADDRESSABLE FIRE ALARM OUTPUT CONTROL MODULE.
- ADDRESSABLE FAULT ISOLATION MODULE.
- ADDRESSABLE INPUT MODULE.
- ADDRESSABLE DUCT DETECTOR.
- FIRE ALARM CONTROL PANEL.
- EXTERNAL MONITORING SYSTEM
- PHOTO ELECTRIC SMOKE DETECTOR. 'PC' INDICATES PROTECTIVE CAGE. PROTECTIVE CAGE APPROVED TYPES:
 - SIMPLEX GRINNELL 2098-9829C (THIS MODEL IS RECOMMENDED FOR USE WITH SMOKE DETECTORS 4098-9601C, 4098-9701C, 4098-9714C AND 2098-9201C).
 - EDWARDS 6255-004 (FOR USE WITH GENERAL SIGNAL SMOKE DETECTORS 6249C, 6250C, 6269C, 6270C AND SIGA-IPHS). WHEN USING SIGA-IPHS, THE MAXIMUM SENSITIVITY SETTING RECOMMENDED.
 - NOTIFIER G1A-2 (THIS MODEL IS RECOMMENDED FOR USE WITH SMOKE DETECTOR FSL-851A).
 - VIPOND KSF DG-002 (THIS MODEL IS RECOMMENDED TO PROTECT THE NOTIFIER SMOKE DETECTOR FSL-851A).
 - SMOKE DETECTOR GUARDS LISTED TO BE USED WITH ULC LISTED SMOKE DETECTORS OF ITS CORRESPONDING MANUFACTURER.

COMMUNICATIONS

- DATA OUTLET. 21mm CONDUIT TO CABLETRAY. PROVIDE A MODULAR FACE PLATE WITH YELLOW RJ45 FEMALE CONNECTOR. CONNECT WITH ONE YELLOW CAT. 6 CABLE TO DATA PATCH PANEL IN ROOM INDICATED.
- DUPLEX DATA OUTLET. 21mm CONDUIT TO CABLETRAY. PROVIDE A MODULAR FACE PLATE WITH TWO YELLOW RJ45 FEMALE CONNECTORS. CONNECT WITH TWO YELLOW CAT. 6 CABLES TO DATA PATCH PANEL IN ROOM INDICATED.
- VOICE OUTLET. 21mm CONDUIT TO CABLE TRAY. PROVIDE A MODULAR FACE PLATE WITH BLUE RJ45 FEMALE CONNECTOR. CONNECT WITH ONE BLUE CAT. 6 CABLE TO DATA PATCH PANEL IN ROOM INDICATED.
- RADIO OUTLET. 21mm CONDUIT TO CABLE TRAY. PROVIDE A MODULAR FACE PLATE WITH RED RJ45 FEMALE CONNECTOR. CONNECT WITH ONE RED CAT. 6 CABLE TO DATA PATCH PANEL IN ROOM INDICATED.
- DATA OUTLET. 21mm CONDUIT TO CABLETRAY. PROVIDE A MODULAR FACE PLATE WITH GREY RJ45 FEMALE CONNECTOR. CONNECT WITH ONE GREY CAT. 6 CABLE TO ROOM 110.
- DUPLEX DATA OUTLET, LOCATED IN CEILING SPACE. 21mm CONDUIT TO CABLETRAY. PROVIDE A MODULAR FACE PLATE WITH TWO YELLOW RJ45 FEMALE CONNECTORS. CONNECT WITH TWO YELLOW CAT. 6 CABLES TO DATA PATCH PANEL IN ROOM INDICATED.
- MICROPHONE OUTLET.
- TELEVISION OUTLET.
- SPEAKER, CEILING MOUNTED.

RECEPTACLES

- DUPLEX CONVENIENCE RECEPTACLE. 120V, 15 AMP, CSA TYPE 5-15R. MOUNT AT 400mm A.F.F. DECORA STYLE, WHITE IN COLOR.
- DUPLEX CONVENIENCE RECEPTACLE. 120V, 15 AMP, CSA TYPE 5-15R. MOUNT AT 175mm ABOVE COUNTER. DECORA STYLE, WHITE IN COLOR.
- GROUND FAULT RECEPTACLE. 120V, 15 AMP, CSA TYPE 5-15R. MOUNTED AT 400mm AFF. DECORA STYLE, WHITE IN COLOR.
- GROUND FAULT RECEPTACLE. 120V, 15 AMP, CSA TYPE 5-15R. MOUNTED 175mm ABOVE COUNTER. DECORA STYLE, WHITE IN COLOR.
- DUPLEX CONVENIENCE RECEPTACLE. 120V, 20 AMP T-SLOT, CSA TYPE 5-20R. MOUNT AT 400mm A.F.F. DECORA STYLE, WHITE IN COLOR.
- DUPLEX CONVENIENCE RECEPTACLE. 120V, 20 AMP T-SLOT, CSA TYPE 5-20R. MOUNT 175mm ABOVE COUNTER. DECORA STYLE, WHITE IN COLOR.
- GROUND FAULT RECEPTACLE. 120V, 20 AMP, T-SLOT. CSA TYPE 5-20R. MOUNTED AT 400mm AFF. DECORA STYLE, WHITE IN COLOR.
- GROUND FAULT RECEPTACLE. 120V, 20 AMP, T-SLOT. CSA TYPE 5-20R. MOUNTED 175mm ABOVE COUNTER. DECORA STYLE, WHITE IN COLOR.
- DRYER RECEPTACLE, 240 VAC, 30 AMP. MOUNT AT 400mm A.F.F.
- DUPLEX CONVENIENCE RECEPTACLE. 120V, 15 AMP, CSA TYPE 5-15R. CEILING MOUNTED, COORDINATE EXACT LOCATION ON SITE. DECORA STYLE, WHITE IN COLOR.
- 120VAC POWER CONNECTION TO SYSTEMS FURNITURE.
- SURGE PROTECTIVE DUPLEX RECEPTACLE. 20A - 125VAC, 18kA, 720 JOULES C/W LED INDICATOR.
- GFCI OUTLET. FEED-THROUGH SELF-TEST, BLANK FACE (DEAD FRONT), 20A - 125VAC, C/W LED INDICATOR.
- FLOOR BOX FOR POWER, DATA AND A/V. C/W COVER AND SUBPLATES AS REQUIRED FOR DATA, POWER, A/V AND USB. SEE FLOOR PLAN FOR BOX TYPES AND DEVICE REQUIREMENTS.

LIST OF SUBSCRIPTS

- a - INDICATES SWITCHING ARRANGEMENT.
- 3 - INDICATES 3 WAY.
- D - INDICATES DIMMER.
- WP - INDICATES WEATHERPROOF.
- OS - INDICATES OCCUPANCY SENSOR TYPE SWITCH
- P - INDICATES PILOT LIGHT
- GFCI - INDICATES GROUND FAULT CIRCUIT INTERRUPTER
- o.c. - INDICATES MOUNTED OVER COUNTER
- RL - INDICATES EXISTING TO BE RELOCATED.
- NL - INDICATES EXISTING IN NEW LOCATION.
- E - INDICATES EXISTING TO REMAIN.
- ER - INDICATES EXISTING TO BE REMOVED.

LIGHTING DEVICES

- UNSWITCHED LED LUMINAIRE. LETTER DENOTES TYPE AS SCHEDULED. CONNECTED TO PANEL "A" CIRCUIT NO.1.
- LED LUMINAIRE. LETTER DENOTES TYPE AS SCHEDULED. CONNECTED TO PANEL "A" CIRCUIT NO.1.
- LED LUMINAIRE, WALL MOUNTED. LETTER DENOTES TYPE AS SCHEDULED. CONNECTED TO PANEL "A" CIRCUIT NO.1.
- LED LUMINAIRE, WALL MOUNTED. LETTER DENOTES TYPE AS SCHEDULED. CONNECTED TO PANEL "A" CIRCUIT NO.1.
- LED LUMINAIRE, POLE MOUNTED. LETTER DENOTES TYPE AS SCHEDULED. CONNECTED TO PANEL "A" CIRCUIT NO.1.
- LED LUMINAIRE, CEILING MOUNTED. LETTER DENOTES TYPE AS SCHEDULED. CONNECTED TO PANEL "A" CIRCUIT NO.1.
- EXIT SIGN. ARROW INDICATES DIRECTION OF EXIT. CEILING MOUNTED, LED TYPE, 120V. DOUBLE ARROW INDICATES DOUBLE-SIDED SIGNAGE.
- EXIT SIGN. ARROW INDICATES DIRECTION OF EXIT. WALL MOUNTED, LED TYPE, 120V
- 'OCCUPIED' INDICATOR SIGN. SURFACE MOUNT ABOVE DOOR, LED TYPE, 120V. CONNECT TO ROOM LIGHTING CIRCUIT, SEE PLANS FOR CONTROL.
- EMERGENCY LIGHTING BATTERY UNIT. RATED FOR 90 MINS. 120V.
- TIMER SWITCH C/W ASTRONOMICAL TIME CLOCK CAPABILITY.
- DUAL EMERGENCY LIGHTING REMOTE HEAD TO MATCH BATTERY UNIT, LED HEADS.
- WIRELESS, CEILING MOUNTED OCCUPANCY SENSOR, DUAL TECHNOLOGY. WHITE IN COLOR.
- WIRELESS LIGHTING RELAY MODULE. TO CONTROL LIGHTING IN A PARTICULAR AREA. 120V, POWERED FROM LIGHTING CIRCUIT IN AREA. MOUNTED IN CEILING SPACE.
- WIRELESS DIMMING LIGHTING RELAY MODULE. TO CONTROL DIMMABLE LIGHTING IN A PARTICULAR AREA. 120V, POWERED FROM LIGHTING CIRCUIT IN AREA. MOUNTED IN CEILING SPACE.
- WIRELESS, WALL MOUNTED LIGHTING SWITCH. 2-BUTTON. MOUNT AT 1200mm AFF.
- WIRELESS, WALL MOUNTED LIGHTING SWITCH. 2-BUTTON WITH RAISE/LOWER TO ADJUST DIMMABLE FIXTURES. MOUNT AT 1200mm AFF.
- PHOTOCCELL FOR LIGHTING CONTROL.

DOOR HARDWARE AND SECURITY

- BARRIER FREE DOOR OPERATOR
- BARRIER FREE DOOR CONTROL STATION. MOUNT AT 1200mm A.F.F.
- VIDEO CAMERA. MOUNT RECEPTACLES ABOVE CEILING. 'WP' INDICATES WEATHERPROOF. C/W DATA OUTLET. 21mm CONDUIT FROM DATA OUTLET TO CABLETRAY. PROVIDE A MODULAR FACE PLATE WITH GREY RJ45 FEMALE CONNECTOR. CONNECT WITH ONE GREY CAT. 6 CABLE TO DATA PATCH PANEL IN ROOM 110. EXACT MOUNTING LOCATION TO BE CONFIRMED ON SITE.
- ELECTRIC DOOR STRIKE.
- DOOR CONTACT.
- SECURITY KEYPAD.
- PROXIMITY CARD READER, MOUNTED 1200mm AFF. 'WP' INDICATES WEATHERPROOF.
- POWER SUPPLY FOR DOOR HARDWARE. 120/24V
- PASSIVE INFRARED MOTION SENSOR. WALL MOUNTED AT 2150mm A.F.F. COVERAGE 90°.
- GLASS BREAK SENSOR.
- DOORBELL PUSHBUTTON.
- WALL MOUNTED BELL FOR DOOR.
- PANIC ALARM RESET BUTTON.
- PANIC ALARM HORN.
- PANIC ALARM PUSH BUTTON.
- ALARM PANEL.
- KEYED SWITCH.

NOTES

1. WHERE CONTRACTOR IS UNSURE OF WORK TO BE PREFORMED, CONTRACTOR SHALL REQUEST DIRECTION FROM DEPARTMENTAL REPRESENTATIVE.
2. WHERE IT IS PROPOSED TO MAKE CHANGE OR CHANGES IN THE DESIGN, AGREEMENT OR TYPE OF EQUIPMENT CALLED FOR IN THESE DRAWINGS/ SPECIFICATIONS, THE ELECTRICAL CONTRACTOR SHALL ESTIMATE THE COST OF SAME AND SUBMIT DETAILED ITEMIZED ESTIMATES OF THE COSTS OF ALL APPARATUS, MATERIALS AND LABOR ENTERING INTO THE CHANGE OR SUBSTITUTION.
3. ALL EQUIPMENT AND EXPOSED NON-CURRENT CARRYING METAL, CONDUITS AND PARTS TO BE PERMANENTLY AND EFFECTIVELY BONDED TO MEET MINIMUM REQUIREMENTS OF THE CEC SECTION 10 AND AS INDICATED ON DRAWINGS AND FURTHER SPECIFIED. STANDARDS SET EITHER BY DRAWINGS OR SPECIFICATIONS WHICH ARE ABOVE THOSE COVERED BY THE CEC SECTION 10 ARE NOT TO BE REDUCED UNDER ANY CIRCUMSTANCES.
4. EQUIPMENT TO BE RATED FOR SERVICE TO WHICH IT IS APPLIED, INCLUDING VOLTAGE CLASS, CONTINUOUS CURRENT RATING, INTERRUPTING RATING AND ENVIRONMENTAL CONDITION.

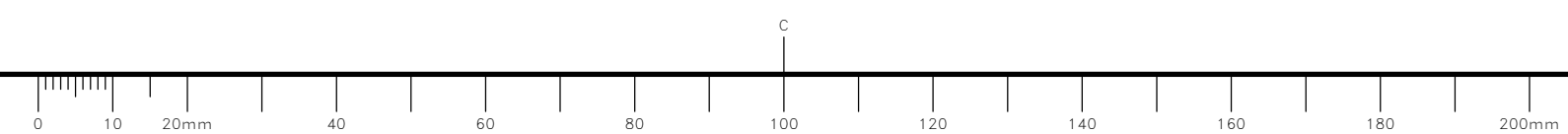


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 04642
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project GOCB Bay D'Espoir
 Bay D'Espoir

drawing	dessin
ELECTRICAL LEGEND	
designed Designer	conçu
date 06/26/18	
drawn Author	dessiné
date 06/26/18	
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 Bay D'Espoir

drawing ELECTRICAL SITE PLAN

designed Designer 06/26/18 conçu

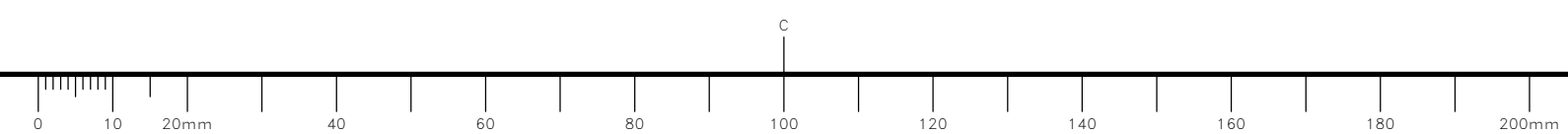
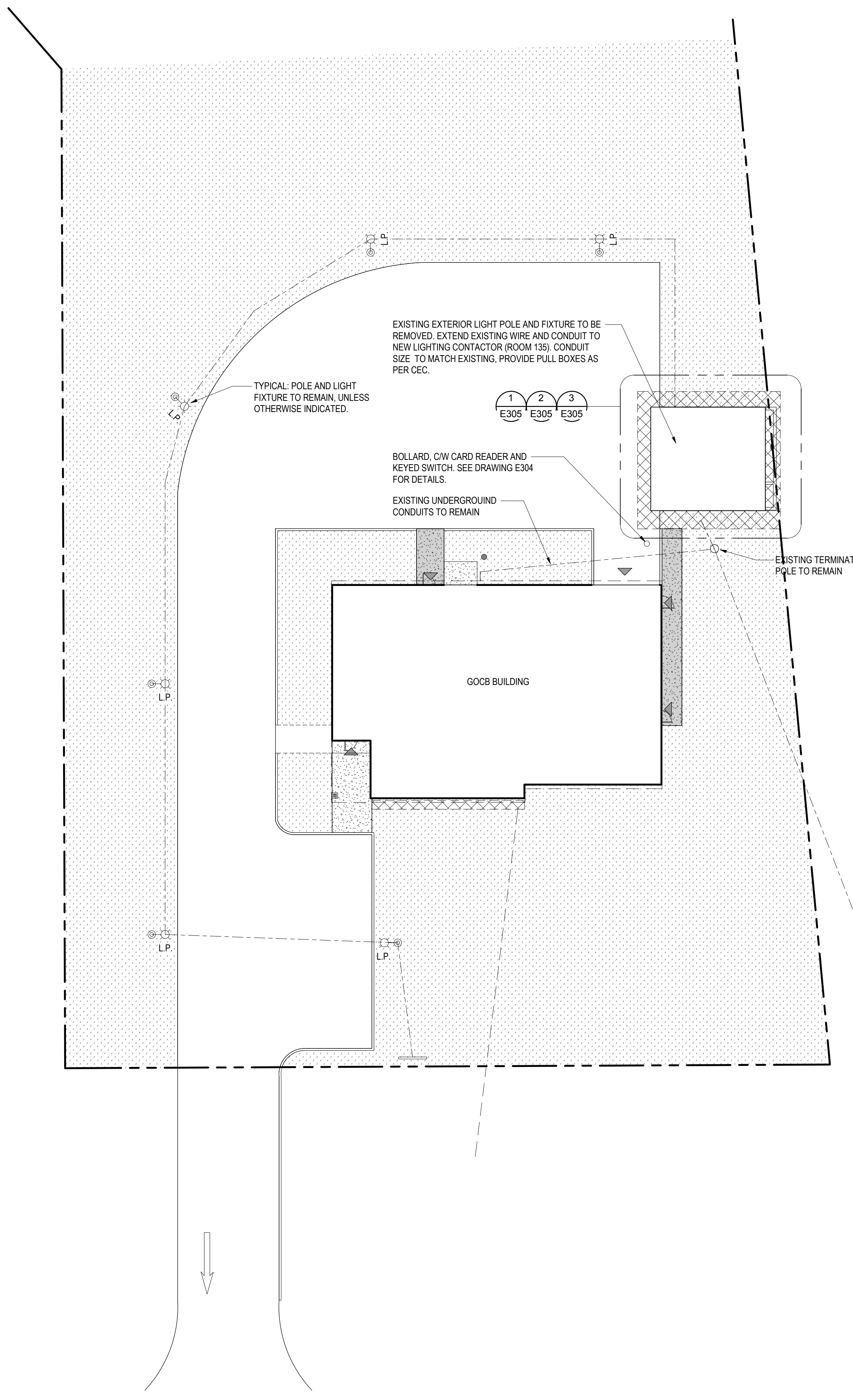
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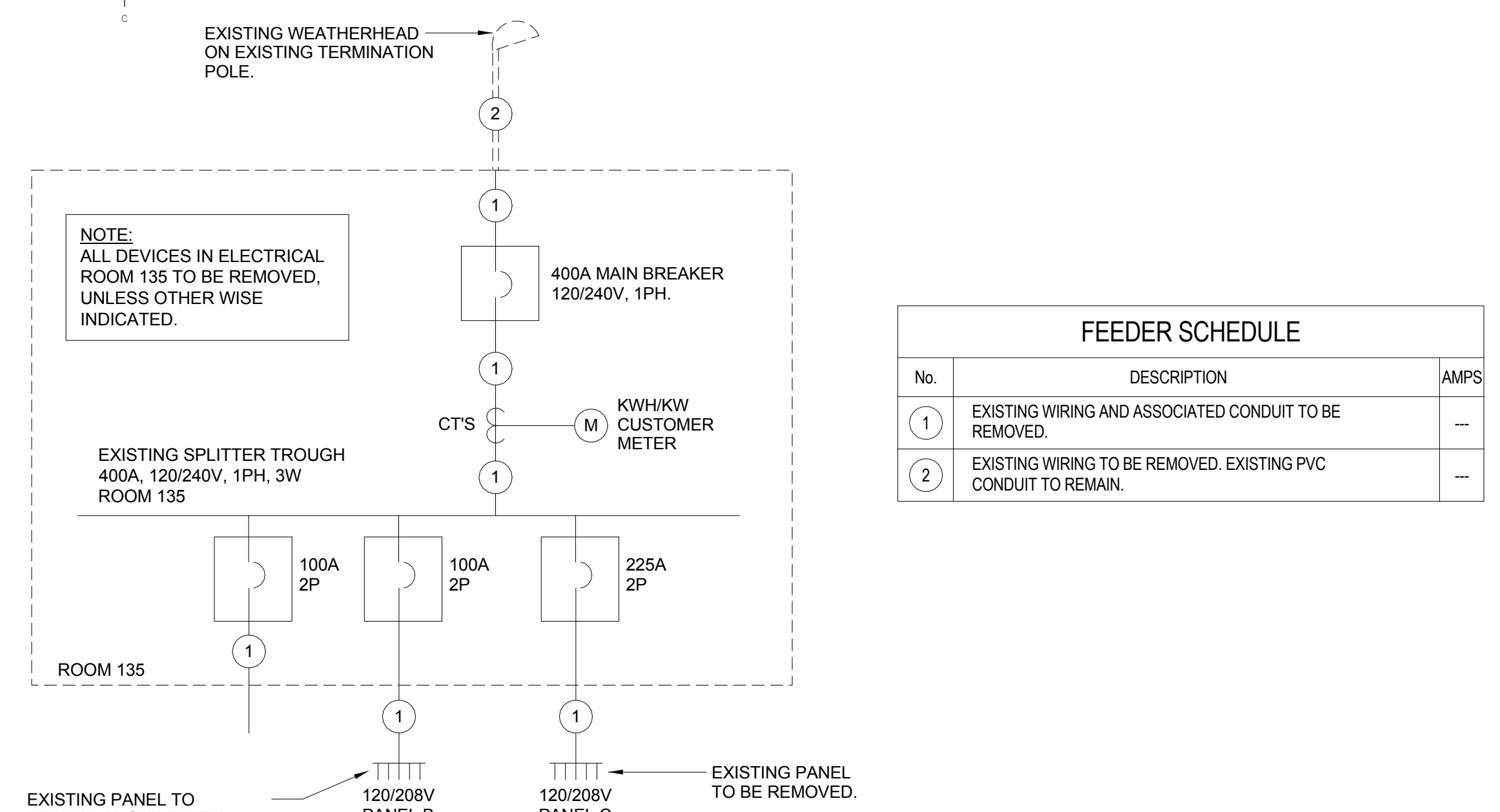
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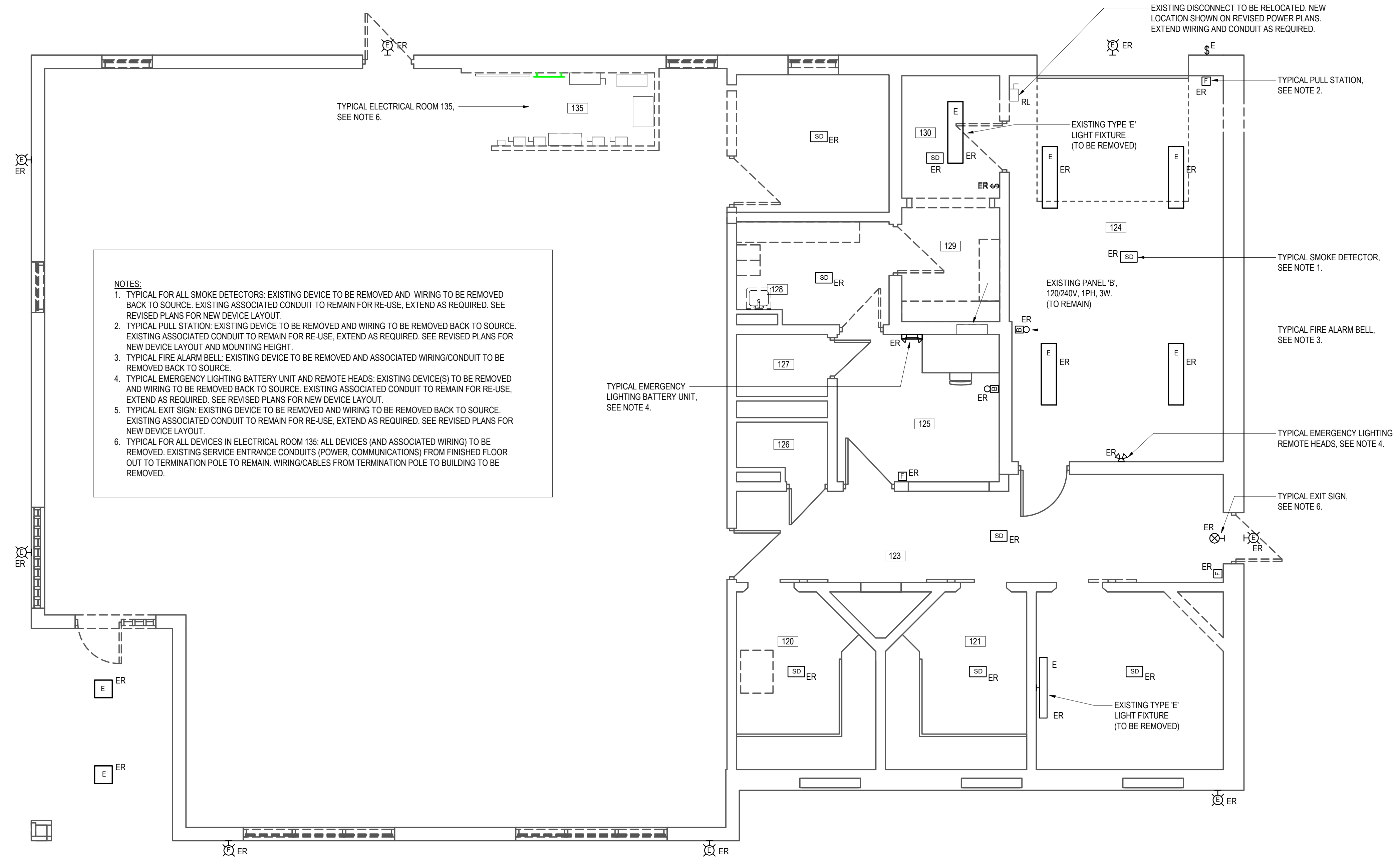
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drawing no. E101 no. du dessin





2 EXISTING ELECTRICAL RISER DIAGRAM
E301 1:1



1 LIGHTING, POWER AND MISC. SYSTEMS DEMOLITION FLOOR PLAN
E301 1:50



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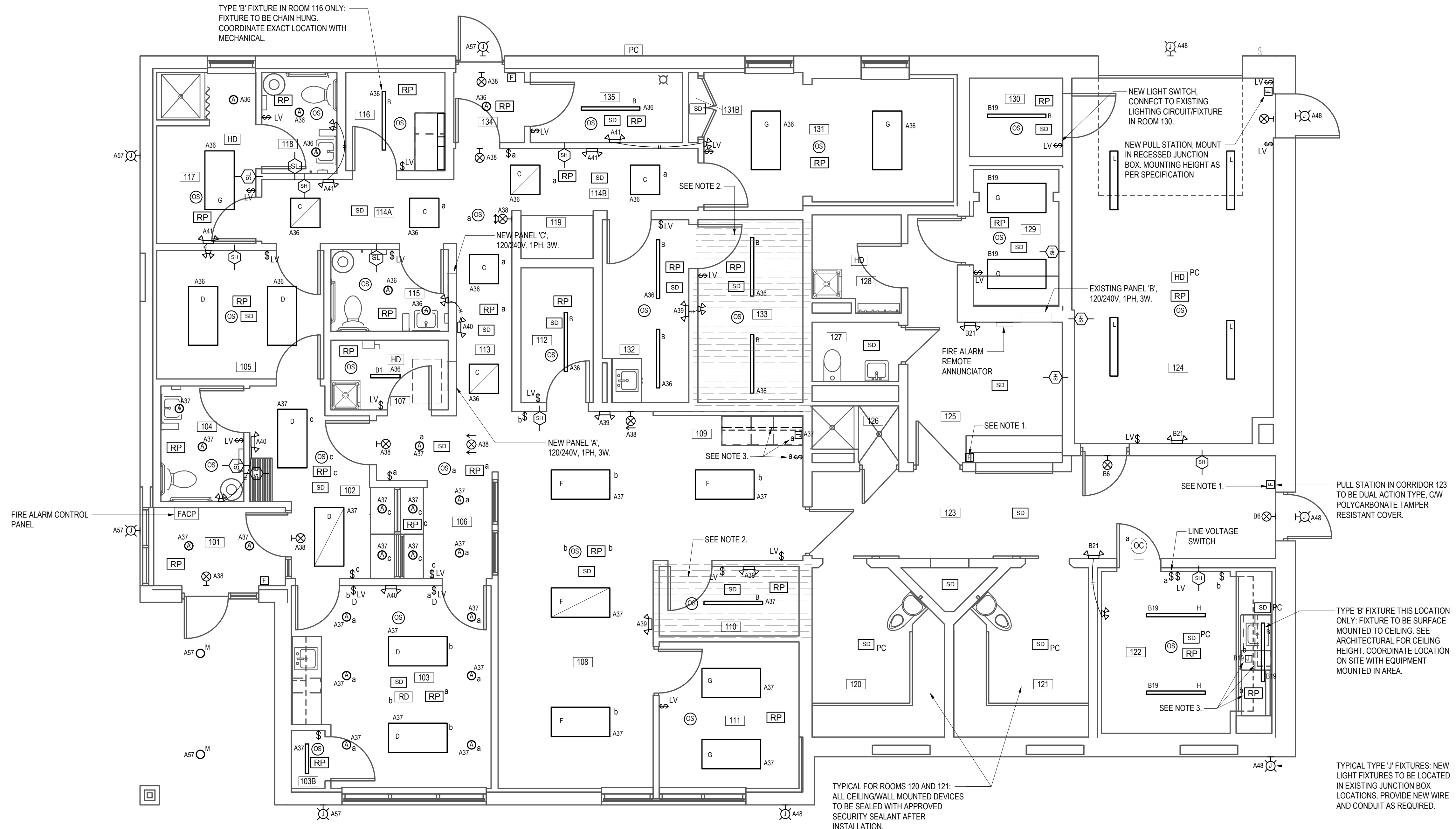
project GOCB Bay D'Espoir
Bay D'Espoir

drawing LIGHTING, POWER AND MISC. SYSTEMS DEMOLITION FLOOR PLAN AND RISER dessin

designed Designer	conçu
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E301	

NOTES:

1. NEW PULL STATION INSTALLED IN EXISTING JUNCTION BOX. HEIGHT TO REMAIN SAME FOR TWO PULL STATIONS IN ROOMS 123 AND 124. SEE SPECIFICATIONS FOR ALL OTHER PULL STATION MOUNTING HEIGHTS.
2. TYPICAL FOR ROOMS 110 AND 133. NO BUILDING SERVICES (WIRE, CONDUIT, JUNCTION BOXES, ETC.) TO PASS THROUGH ROOMS HIGHLIGHTED BELOW. ONLY CONDUITS SERVICING ROOMS PERMITTED TO PENETRATE PERIMETER WALLS, FLOORS AND CEILINGS.
3. TYPE 'K' LIGHTING MOUNTED UNDERNEATH UPPER CABINETS. COORDINATE EXACT LENGTH OF CONTINUOUS RUN WITH ARCHITECTURAL. MOUNT DRIVER IN ENCLOSURE IN CEILING SPACE. LIGHTING CONTROLLED VIA LV SWITCH AND CONNCT TO CIRCUIT AS INDICATED.
4. SEE DRAWING E-303 FOR [OCM] LOCATIONS TO SHUTDOWN HRV'S 1,2 AND 3.



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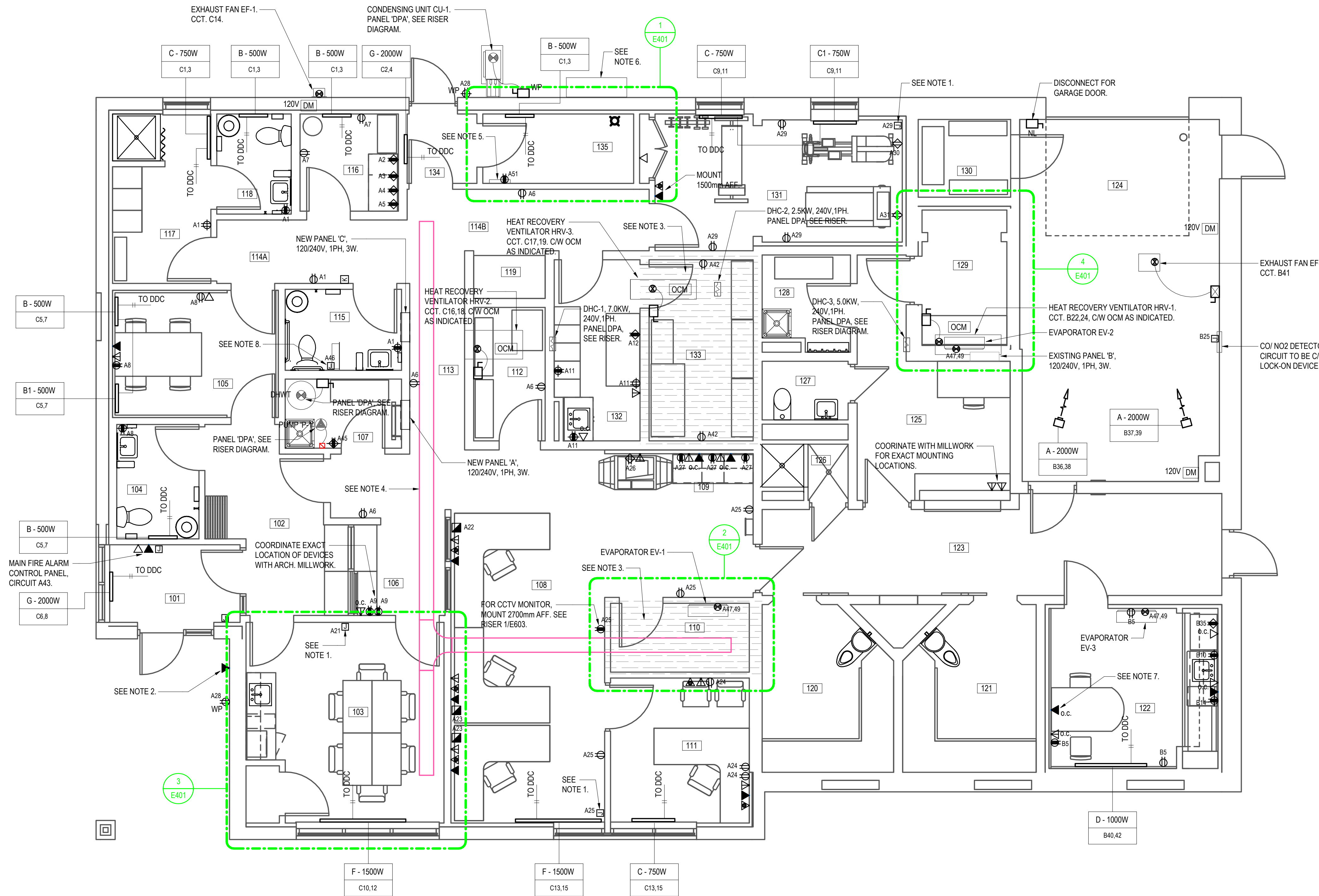
project GOCB Bay D'Espoir
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drawing LIGHTING AND FIRE ALARMS SYSTEMS FLOOR PLAN dessin

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NOTES:

- 15A, 120V RECEPTACLE, DATA OUTLET AND CABLE TELEVISION OUTLET TO BE INSTALLED IN RECESSED COMBO BOX. BOX TO BE MOUNTED 2150mm AFF. EXACT LOCATION TO BE CONFIRMED ON SITE.
- TELEPHONE OUTLET FOR EXTERIOR TELEPHONE. PHONE SUPPLIED AND INSTALLED UNDER THIS CONTRACT. PHONE EQUAL TO GUARDIAN TELEPHONE MODEL WTR-41. CONFIRM WITH DEPARTMENTAL REPRESENTATIVE FOR EXACT MOUNTING HEIGHT/LOCATION OF TELEPHONE. TELEPHONE TO BE TERMINATED IN ROOM 110.
- TYPICAL FOR ROOMS 110 AND 133: NO BUILDING SERVICES (WIRE, CONDUIT, JUNCTION BOXES, ETC.) TO PASS THROUGH ROOMS HIGHLIGHTED BELOW. ONLY CONDUITS SERVICING ROOMS PERMITTED TO PENETRATE PERIMETER WALLS, FLOORS AND CEILINGS.
- 300mm WIDE CABLE TRAY. CABLE TRAY TO HAVE 600mm CLEARANCE ON ONE SIDE AND 300mm VERTICAL CLEARANCE TO ALL CEILINGS, DUCTWORK AND MECHANICAL EQUIPMENT. SEE DETAIL 1/E502.
- 120V POWER CONNECTION FOR DDC PANEL. COORDINATE EXACT LOCATION AND QUANTITIES WITH MECHANICAL AND ADJUST TO SUIT. IN ADDITION TO POWER AND DATA CONNECTIONS SHOWN FOR DDC, ALLOW FOR THREE MORE (COORDINATE LOCATIONS).
- CAM-LOK CONNECTOR ENCLOSURE FOR GENERATOR CONNECTION. CABINET EQUAL TO FOXFAB FCC-B1 SERIES, 400A, 120/240V / 1PH / 3W, 5052 ALUMINUM.
- TELEPHONE OUTLET FOR WALL MOUNTED PHONE. PHONE SUPPLIED AND INSTALLED UNDER THIS CONTRACT. PHONE TO BE GUARDIAN CIT-40 WITH RINGER 'FB' OPTION. PHONE AND OUTLET TO BE MOUNTED ABOVE TABLE. COORDINATE ON SITE WITH DEPARTMENTAL REPRESENTATIVE PRIOR TO ROUGH-IN AND INSTALLATION.
- TRAP SEAL PRIMER CABINET, LOCATED IN ATTIC SPACE. COORDINATE WITH MECHANICAL FOR EXACT LOCATION ON SITE.



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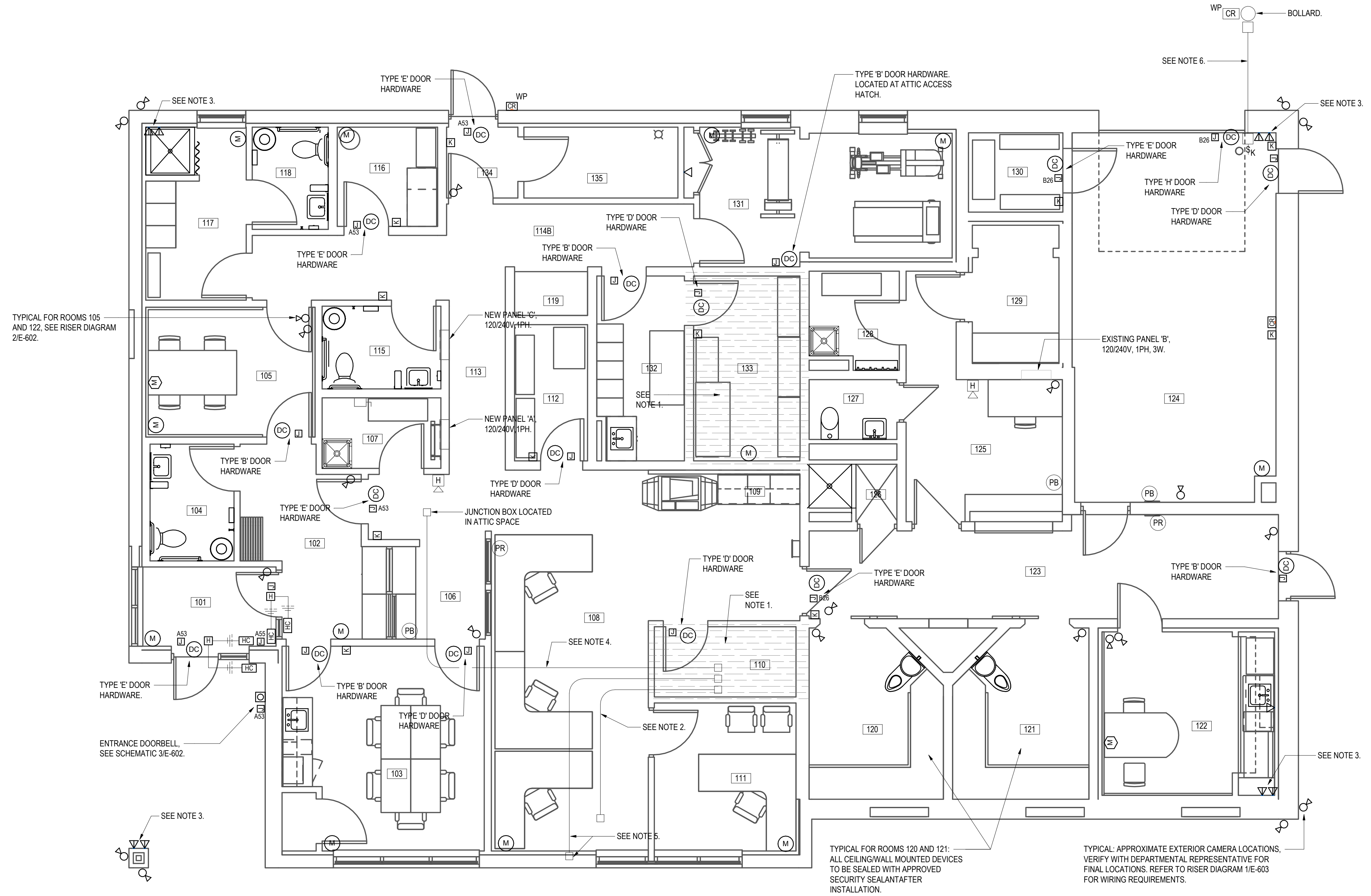
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drawing POWER AND MISC. SYSTEMS FLOOR PLAN

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E303	



- NOTES:**
1. TYPICAL FOR ROOMS 110 AND 133: NO BUILDING SERVICES (WIRE, CONDUIT, JUNCTION BOXES, ETC.) TO PASS THROUGH ROOMS HIGHLIGHTED BELOW. ONLY CONDUITS SERVICING ROOMS PERMITTED TO PENETRATE PERIMETER WALLS, FLOORS AND CEILINGS.
 2. 53mm CONDUIT C/W LMR400 CABLE. PROVIDE 150mm X 150mm X 150mm PULL BOXES AT EACH END AS INDICATED. PROVIDE 3.0m COILED CABLE IN JUNCTION BOXES AT EACH END FOR FUTURE TERMINATIONS BY DEPARTMENTAL REPRESENTATIVE.
 3. ONE DUAL DATA DROP PER EXTERIOR CAMERA. TERMINATE DATA CABLES IN CEILING SPACE. COORDINATE EXACT LOCATION AND WIRING REQUIREMENTS WITH DEPARTMENTAL REPRESENTATIVE AND ADJUST TO SUIT. SEE RISER DIAGRAM 1/E-603 FOR DETAILS.
 4. ONE (1) RUN OF LMR400 CABLE ROUTED IN 53mm DIA. CONDUIT FROM ANTENNA TO ROOM 110. SEE RISER DIAGRAM 1/E-602. MINIMUM BENDING RADIUS ON CONDUIT = 600mm.
 5. ROUTE 27mm DIA. CONDUIT EXTERIOR WALL TO ROOM 110 AS INDICATED. JUNCTION BOX ON EXTERIOR WALL TO BE MOUNTED 2700mm AFF. CONDUIT TO BE C/W PULL STRING.
 6. TYPICAL: ROUTE 8C #22 AWG CABLE IN 27mm PVC CONDUIT FROM INTERIOR JUNCTION BOX TO EXTERIOR BOLLARD MOUNTED KEYED SWITCH. PROVIDE 3.0m COILED SPARE CABLE AT EACH END.



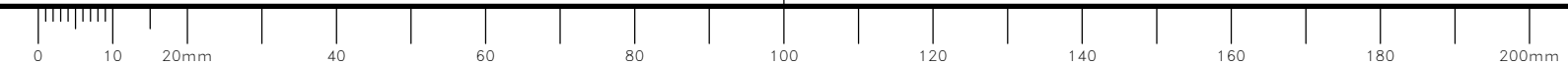
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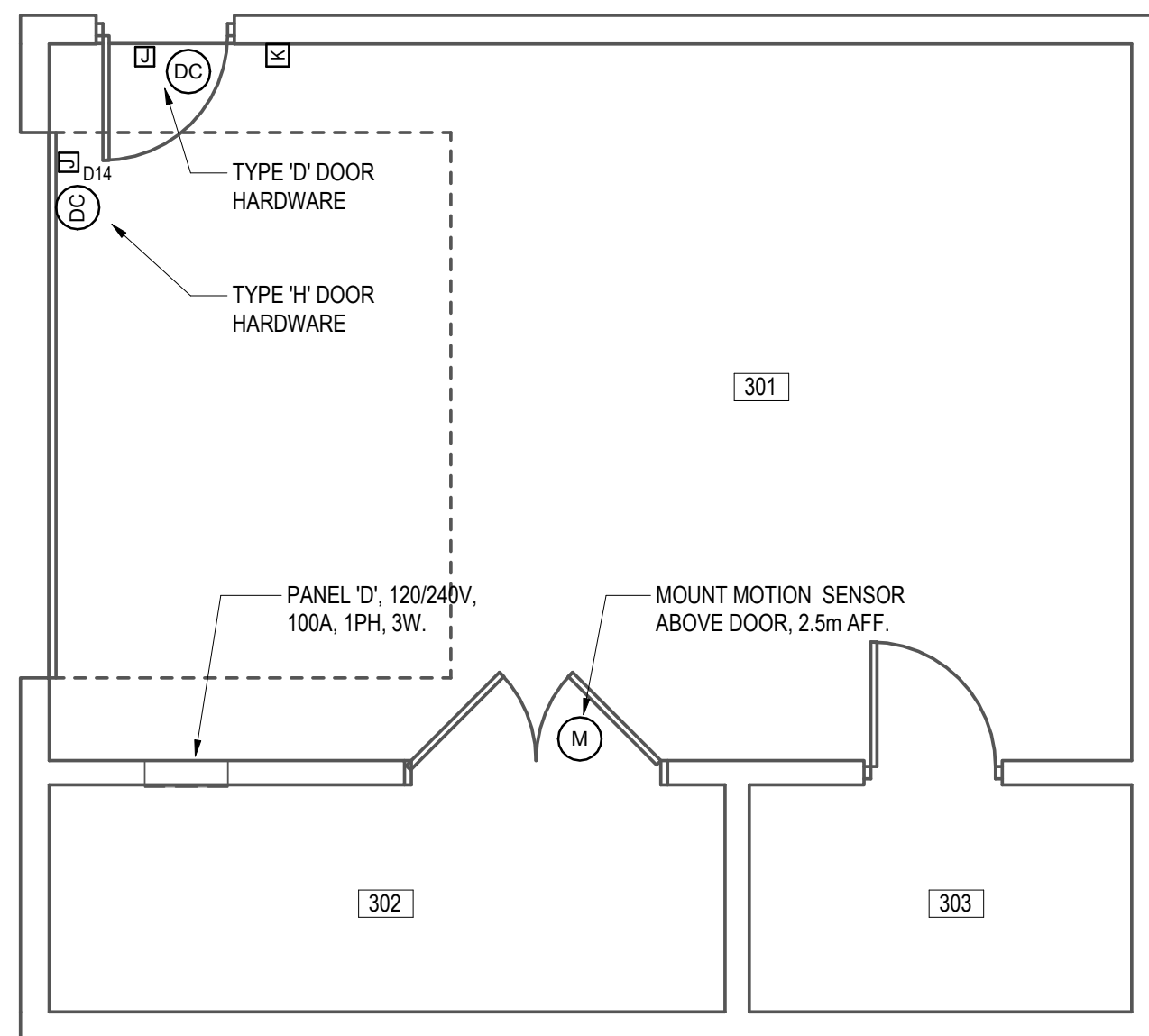
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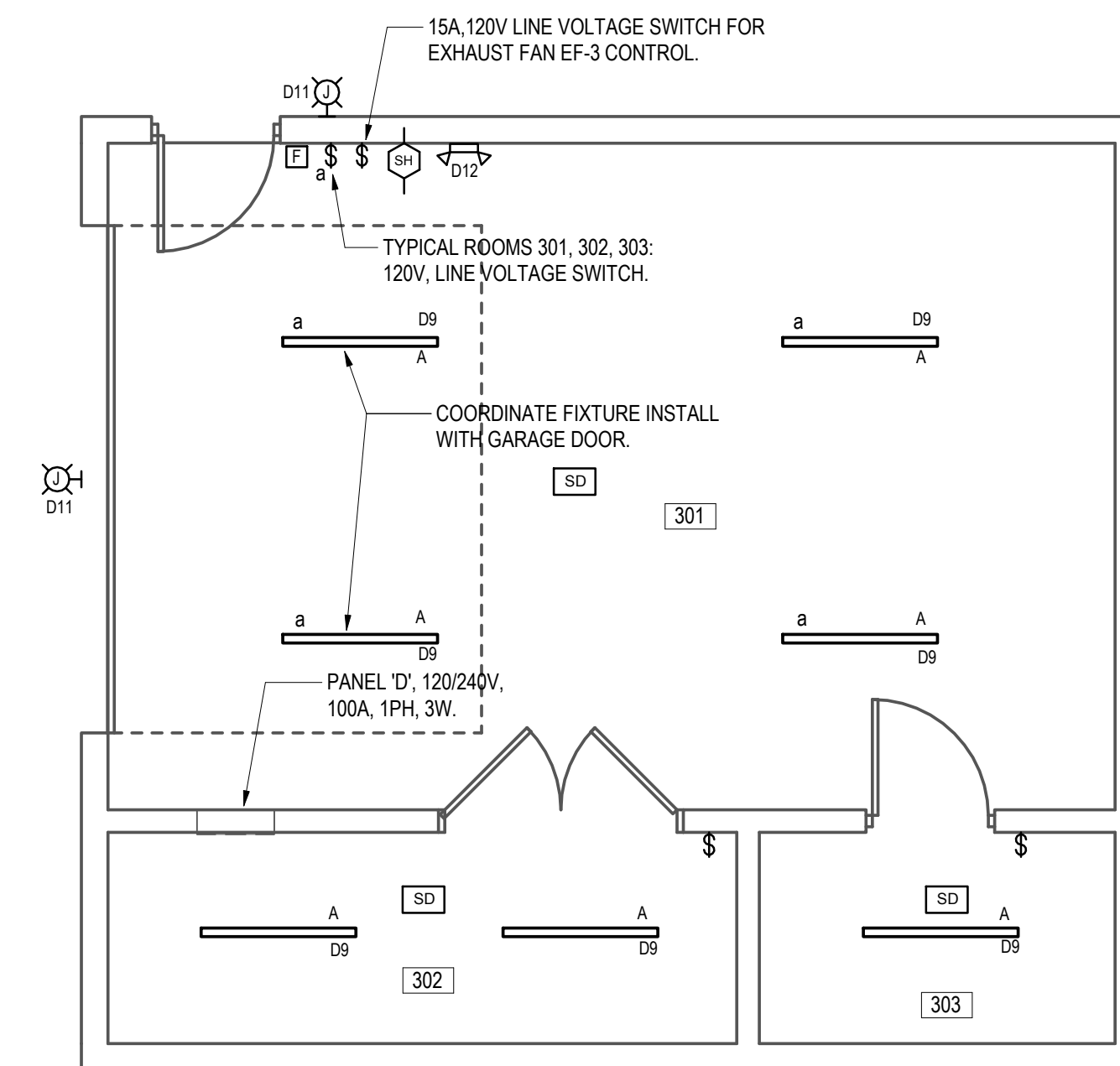
drawing **SECURITY SYSTEMS FLOOR PLAN** dessin

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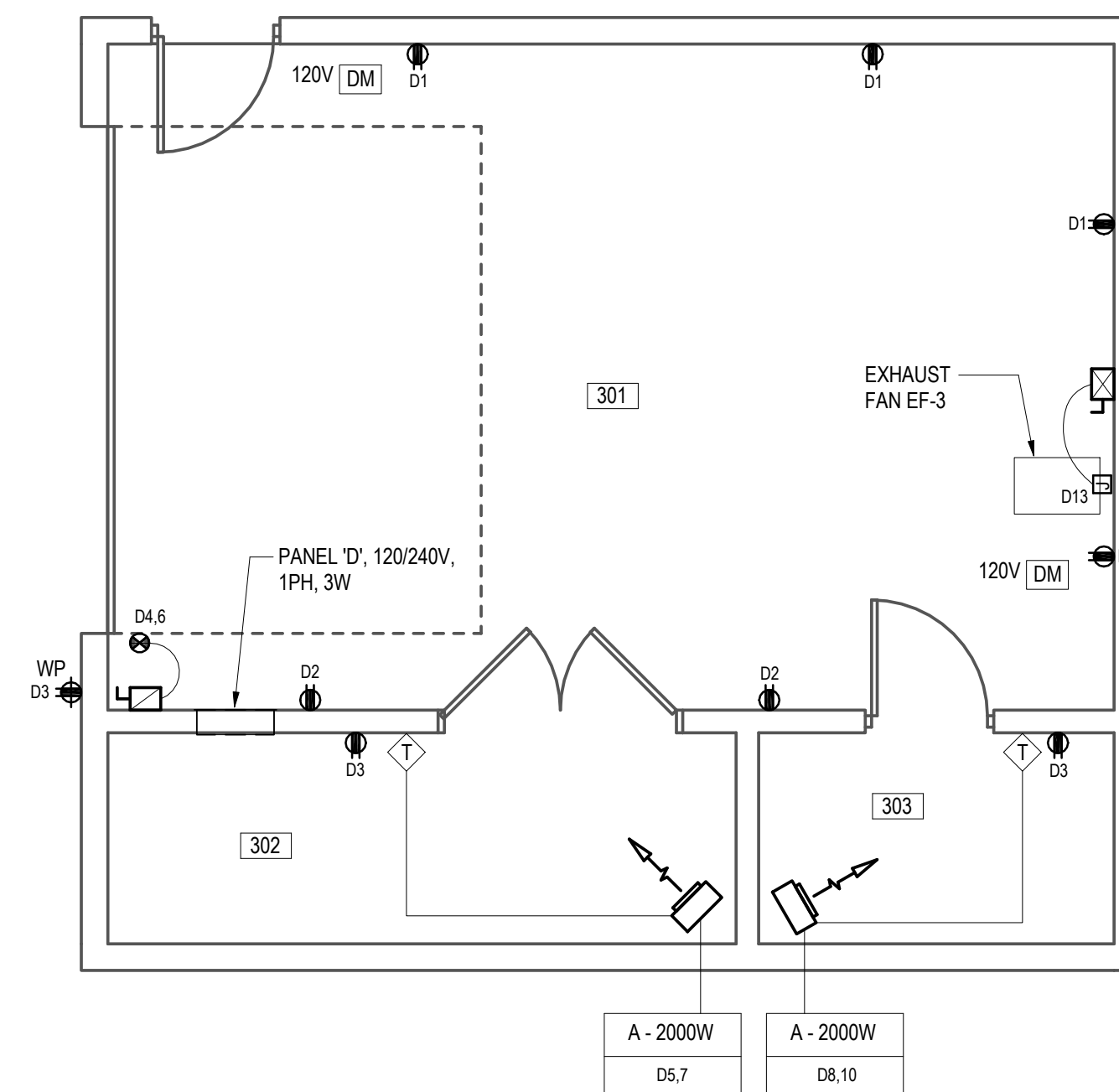




3 SECURITY SYSTEMS FLOOR PLAN
E305 1:50



1 LIGHTING AND FIRE ALARM SYSTEMS FLOOR PLAN
E305 1:50



2 POWER AND MISC SYSTEMS FLOOR PLAN
E305 1:50



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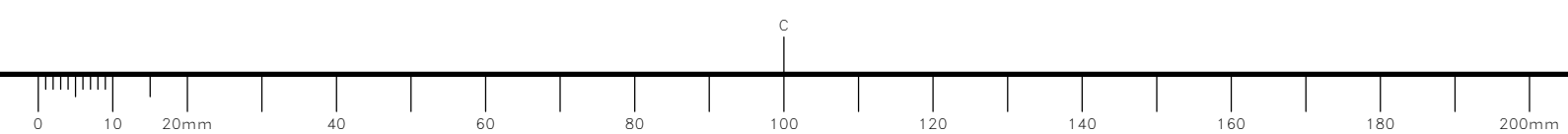
FLOOR PLANS OUT BUILDING

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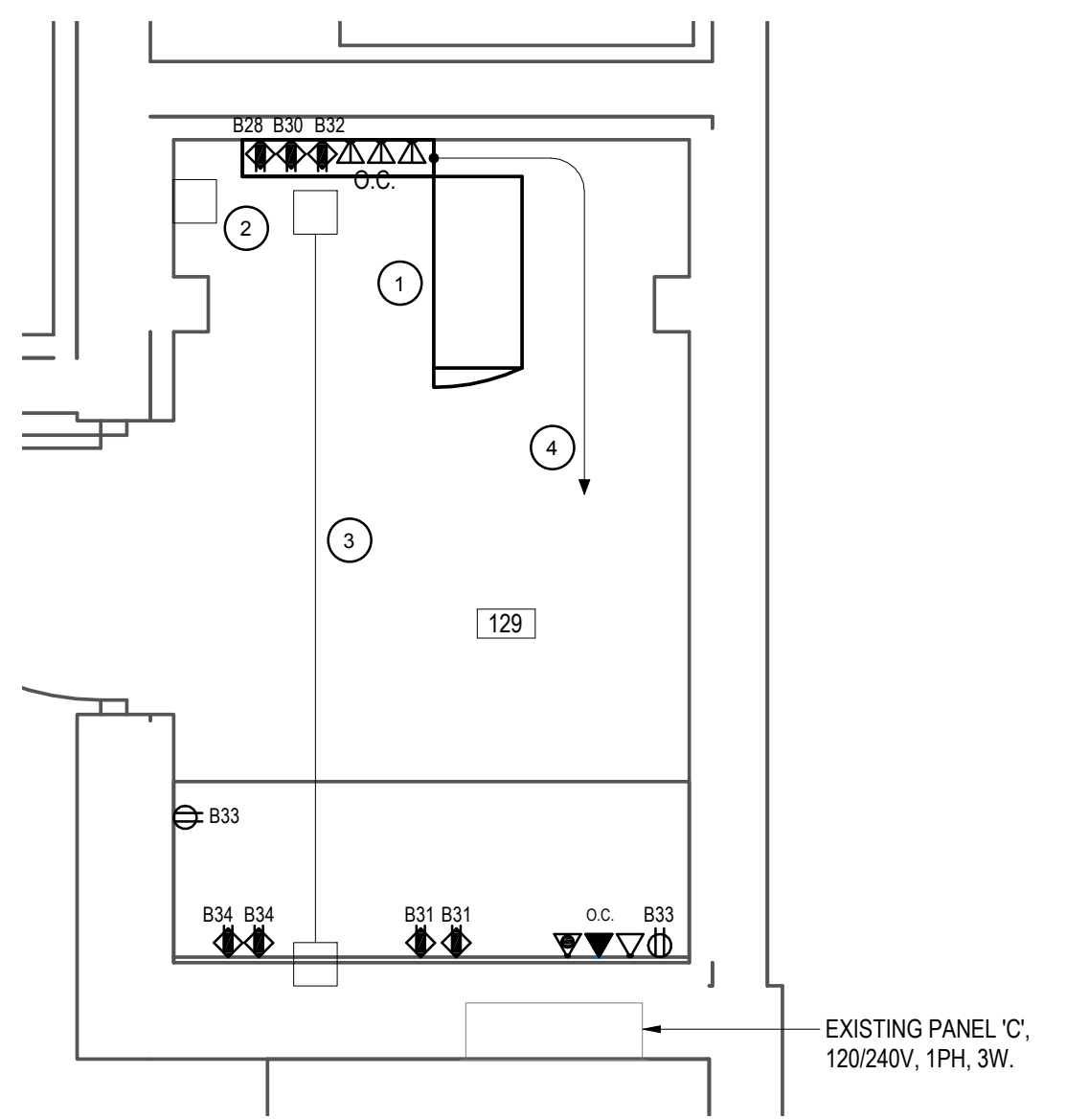
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Bay D'Espoir

PARTIAL FLOOR PLANS

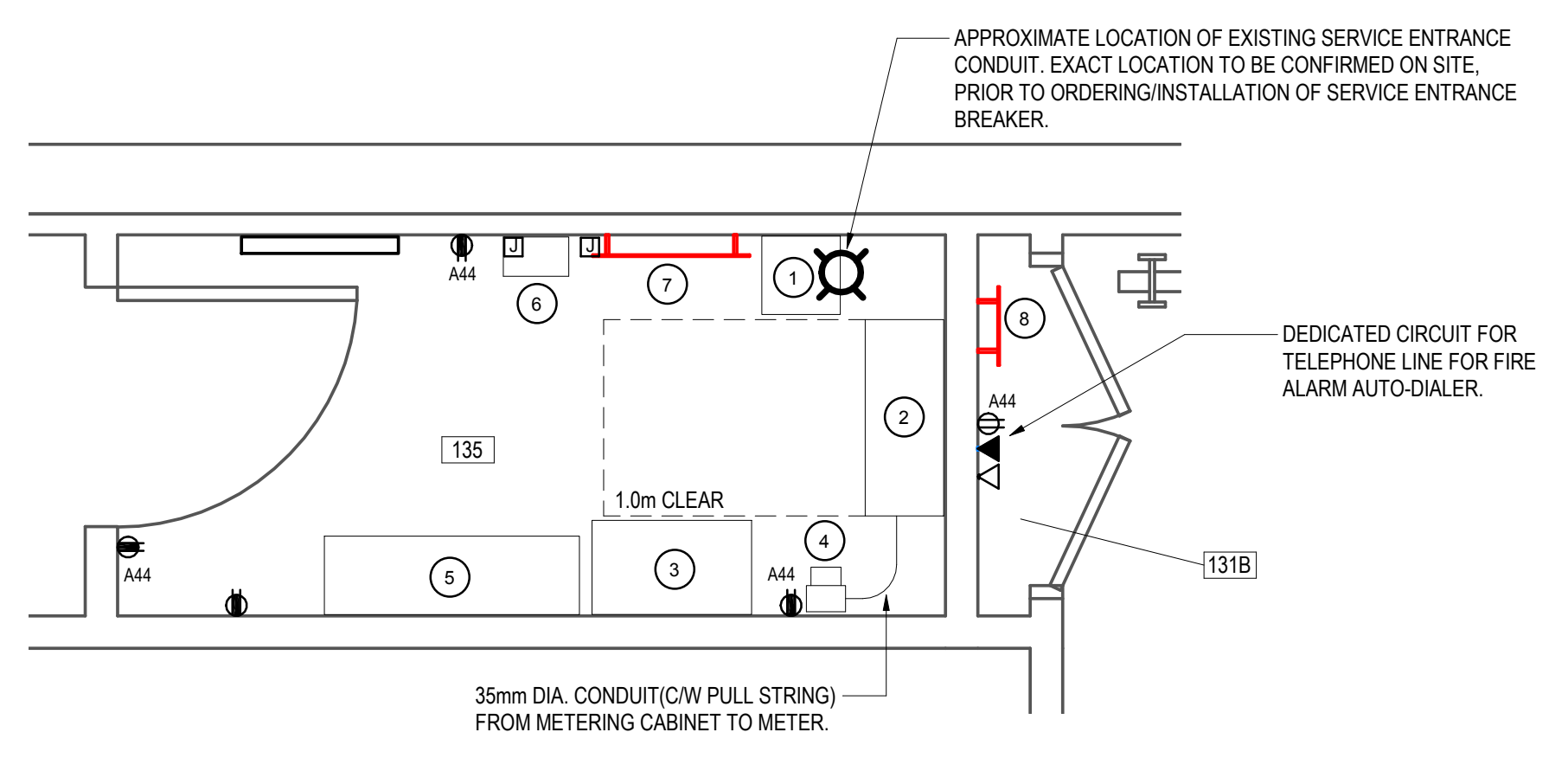
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drawing no.	no. du dessin
	E401

- 1 DATA RACK, C/W 24 PORT PATCH PANEL, 1-5 OUTLET / 450VA / 280 WATT RACK MOUNTABLE 1U-UPS RECEPTACLES/DATA OUTLETS FOR FUTURE EQUIPMENT INSTALLED BY DEPARTMENTAL REPRESENTATIVE. COORDINATE WITH DEPARTMENTAL REPRESENTATIVE FOR EXACT LOCATION AND MOUNTING HEIGHTS. ADJUST ACCORDINGLY.
- 2 305mm X 305MM JUNCTION BOX FOR CCTV CABLES
- 3 FOUR 53mm DIA. CONDUITS, C/W JUNCTION BOXES AT BOTH ENDS AND PULL STRING (EACH CONDUIT RUN TO BE C/W SEPERATE JUNCTION BOXES AT EACH END). JUNCTION BOXES ON NORTH WALL TO BE LOCATED ON WALL ABOVE DATA RACK. JUNCTION BOXES LOCATED ON SOUTH WALL TO BE LOCATED 400mm AFF (BELOW MILLWORK, COORDINATE WITH ARCH).
- 4 1C #6 GROUND IN 21mm DIA. CONDUIT FROM DATA RACK AS INDICATED TO GROUND BUS IN ROOM 110.



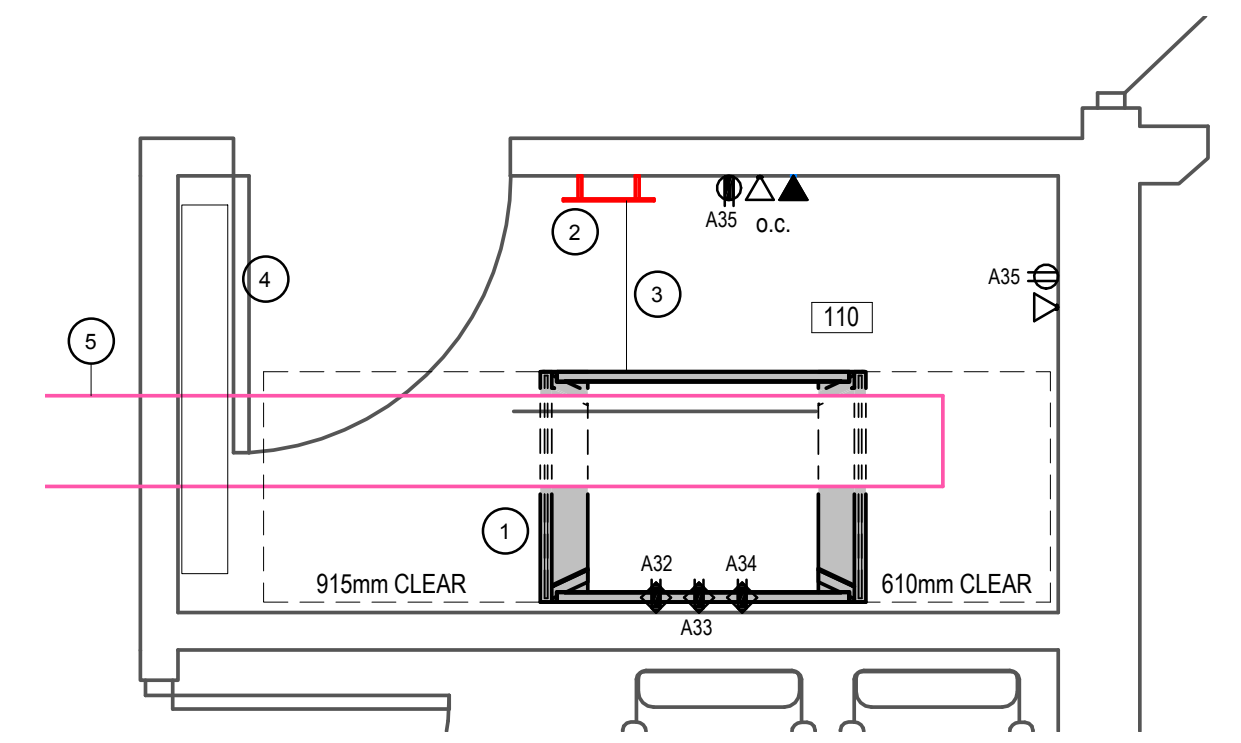
4 PARTIAL FLOOR PLAN ROOM 129
 E401 1 : 25

- 1 SERVICE ENTRANCE BREAKER, C/W ENCLOSURE, 120/240V, 400A, 1PH, 3W, 100% RATED.
- 2 UTILITY METERING CABINET, SIZE AS PER LOCAL JURISDICTION.
- 3 400A MANUAL TRANSFER SWITCH NO. 1.
- 4 UTILITY METER
- 5 PANEL 'DPA', 120/240V, 400A, 1PH, 3W.
- 6 LIGHTING CONTACTOR
- 7 GROUND BUS 600mm X 100mm X 13mm THK COPPER ON INSULATED STAND-OFFS.
- 8 GROUND BUS 300mm X 100mm X 13mm THK COPPER ON INSULATED STAND-OFFS.



1 PARTIAL FLOOR PLAN ROOM 135
 E401 1 : 25

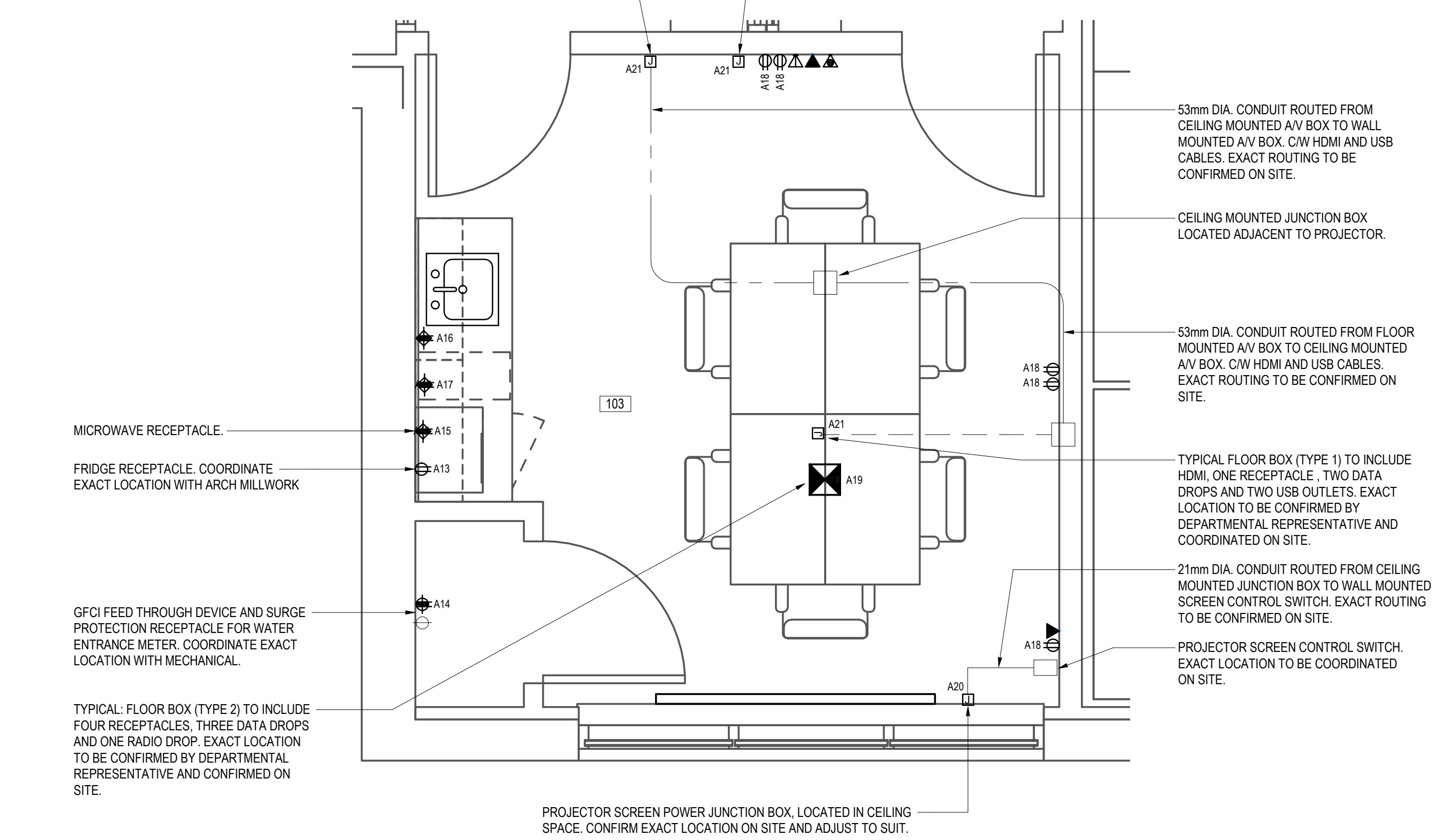
- 1 FLOOR MOUNTED DATA RACK, MINIMUM CLEARANCES SHOWN FOR REFERENCE. RACK C/W RAIL KIT, SEE SPECIFICATIONS FOR DETAILS.
- 2 GROUND BUS 300mm X 75mm X 13mm THK COPPER ON INSULATED STAND-OFFS.
- 3 TYPICAL: #6 AWG RW90 COPPER GROUND IN 21mm DIA. CONDUIT FROM RACK FRAME TO GROUND BUS IN ROOM.
- 4 ALARM PANEL PLYWOOD AND BREAKOUT BOX. SEE DETAIL 3/E-502.
- 5 300mm WIDE X 100mm DEEP WIRE BASKET STYLE CABLE TRAY, SEE FLOOR PLAN FOR ROUTING.



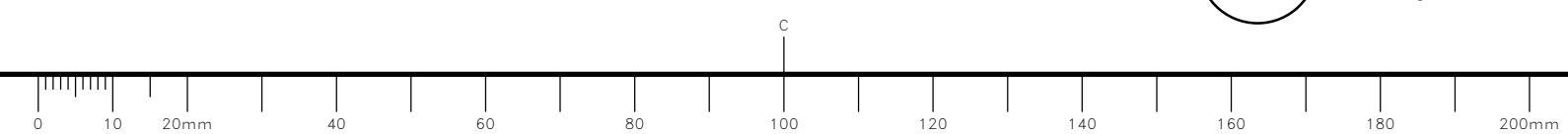
2 PARTIAL FLOOR PLAN ROOM 110
 E401 1 : 25

WALL JUNCTION BOX TO INCLUDE HDMI, ONE RECEPTACLE, TWO DATA DROPS, ONE VOICE OUTLET AND ONE USB OUTLET IN 4-PORT PLATE. EXACT LOCATION TO BE CONFIRMED BY DEPARTMENTAL REPRESENTATIVE.

15A 120V RECEPTACLE, DATA OUTLET AND CABLE TELEVISION OUTLET TO BE INSTALLED IN RECESSED COMBO BOX. BOX TO BE MOUNTED 2150mm AFF. EXACT LOCATION TO BE CONFIRMED ON SITE.



3 PARTIAL FLOOR PLAN ROOM 103
 E401 1 : 25





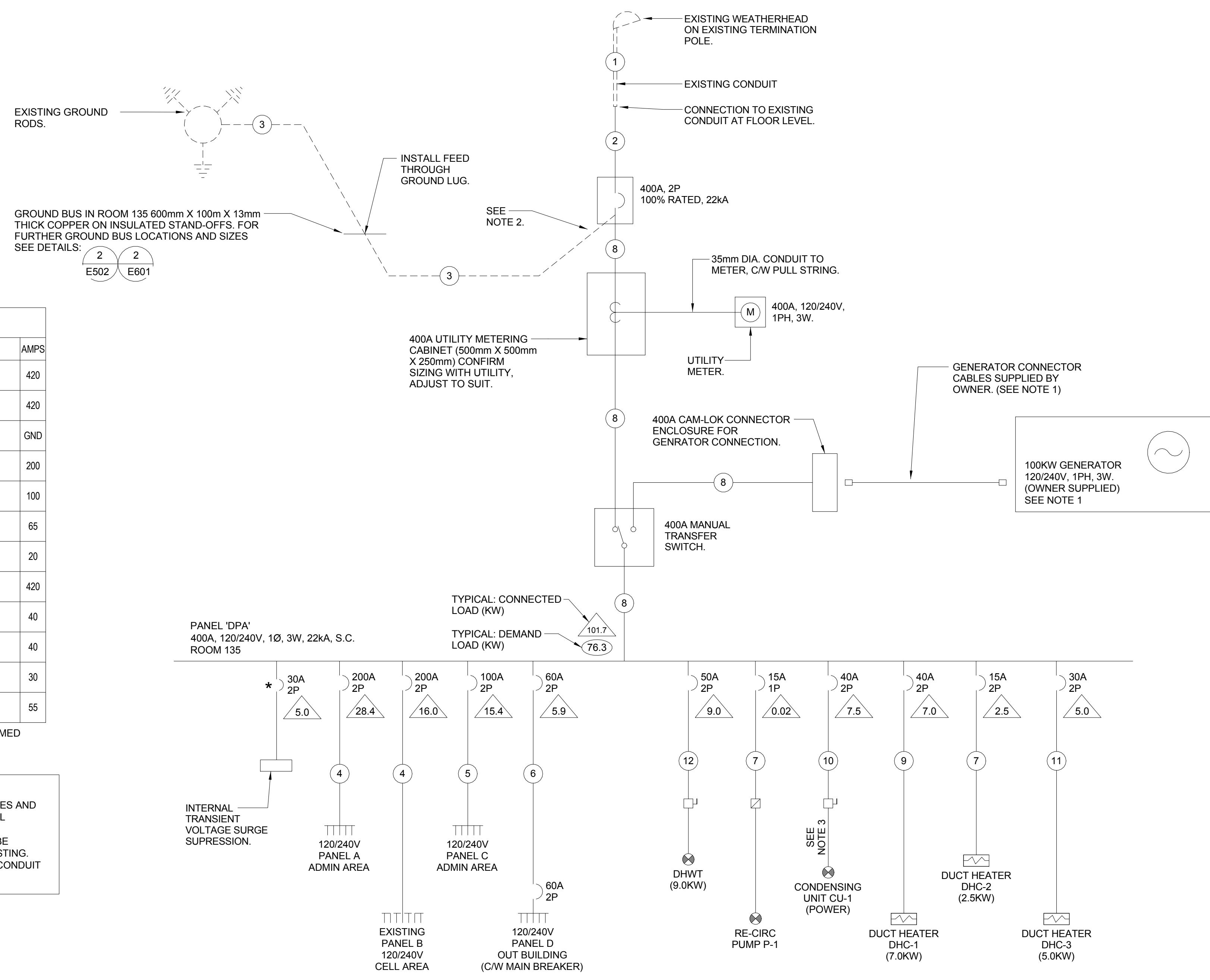
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project GOCB Bay D'Espoir
 Bay D'Espoir

drawing ELECTRICAL RISER DIAGRAM

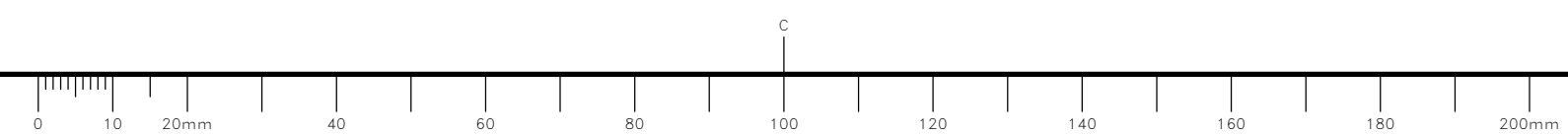
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1005744	
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E501	



FEEDER SCHEDULE		
No.	DESCRIPTION	AMPS
1	3 - #600MCM RWU90 COPPER CONDUCTORS PLUS 1 - #2 AWG BOND IN EXISTING 91mm DIA. CONDUIT.	420
2	3 - #600MCM RWU90 COPPER CONDUCTORS PLUS 1 - #2 AWG BOND IN NEW 91mm DIA. CONDUIT.	420
3	EXISTING GROUND WIRE RE-CONNECTED TO NEW SERVICE, EXTEND AS REQUIRED.	GND
4	3 - #3/0 AWG RW90 COPPER CONDUCTORS PLUS 1 - #4 AWG BOND IN 53mm DIA. CONDUIT.	200
5	3 - #3 AWG RW90 COPPER CONDUCTORS PLUS 1 - #6 AWG BOND IN 35mm DIA. CONDUIT.	100
6	3 - #6 AWG RW90 COPPER CONDUCTORS PLUS 1 - #8 AWG BOND IN 27mm DIA. CONDUIT.	65
7	2 - #12 AWG RW90 COPPER CONDUCTORS PLUS 1 - #12 AWG BOND IN 21mm DIA. CONDUIT.	20
8	3 - #600MCM RW90 COPPER CONDUCTORS PLUS 1 - #2 AWG BOND IN 91mm DIA. CONDUIT.	420
9	2 - #8 AWG RW90 COPPER CONDUCTORS PLUS 1 - #10 AWG BOND IN 21mm DIA. CONDUIT.	40
10	3 - #8 AWG RW90 COPPER CONDUCTORS PLUS 1 - #10 AWG BOND IN 27mm DIA. CONDUIT.	40
11	2 - #10 AWG RW90 COPPER CONDUCTORS PLUS 1 - #12 AWG BOND IN 21mm DIA. CONDUIT.	30
12	2 - #6 AWG RW90 COPPER CONDUCTORS PLUS 1 - #10 AWG BOND IN 27mm DIA. CONDUIT.	55

* - BREAKER AND CONDUCTOR SIZE TO BE CONFIRMED BY MANUFACTURER.

NOTES:
 1. CAM-LOK CONNECTOR ENCLOSURE, CONNECTION CABLES AND GENERATOR TO BE COORDINATED WITH DEPARTMENTAL REPRESENTATIVE, ADJUST TO SUIT.
 2. PROVIDE CADWELD CONNECTION IF GROUND WIRE TO BE EXTENDED, NEW PORTION IF REQUIRED, TO MATCH EXISTING.
 3. TRANSITION TO FLEXIBLE LIQUID TIGHT NON-METALLIC CONDUIT ON EXTERIOR OF BUILDING TO UNIT.





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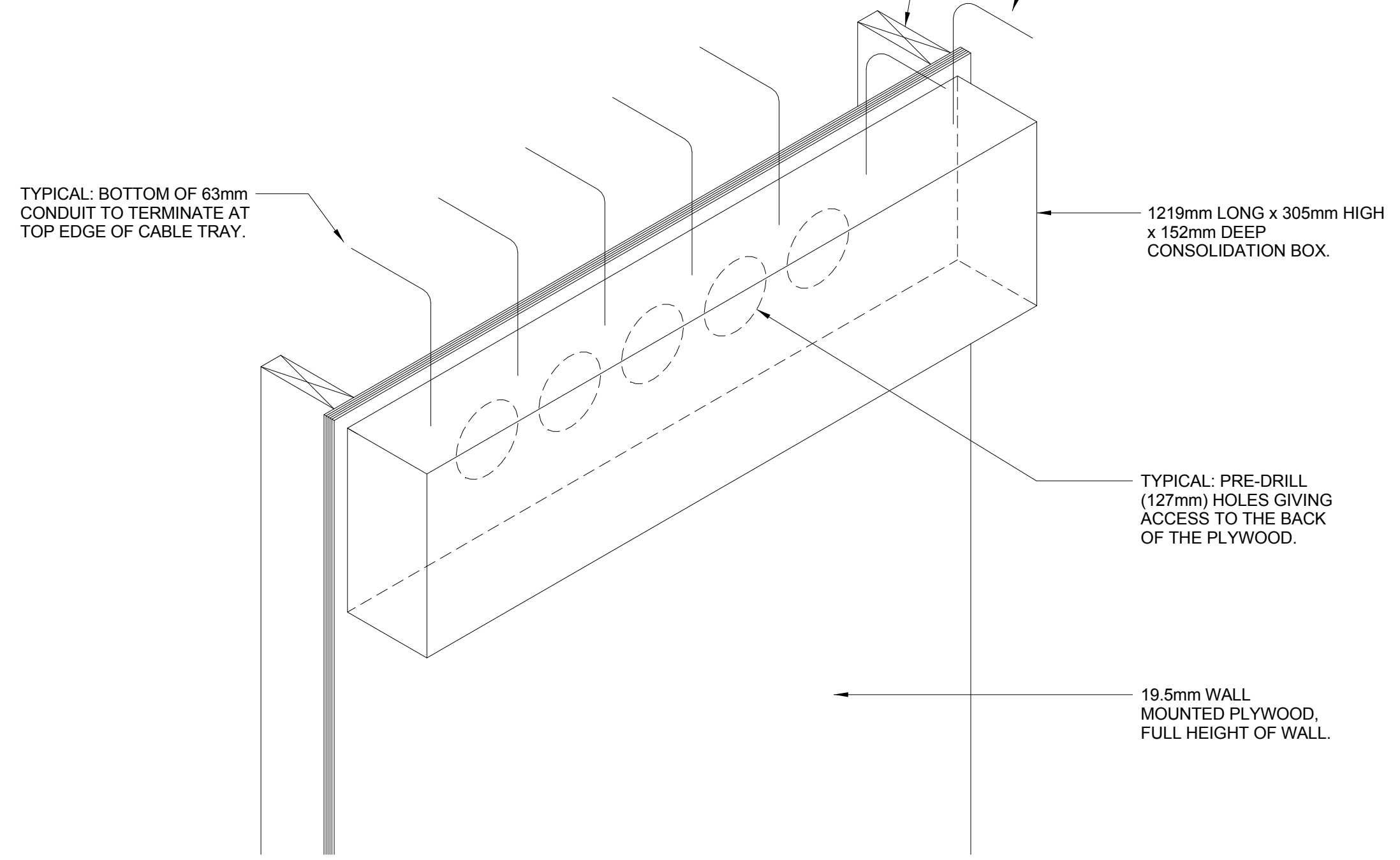
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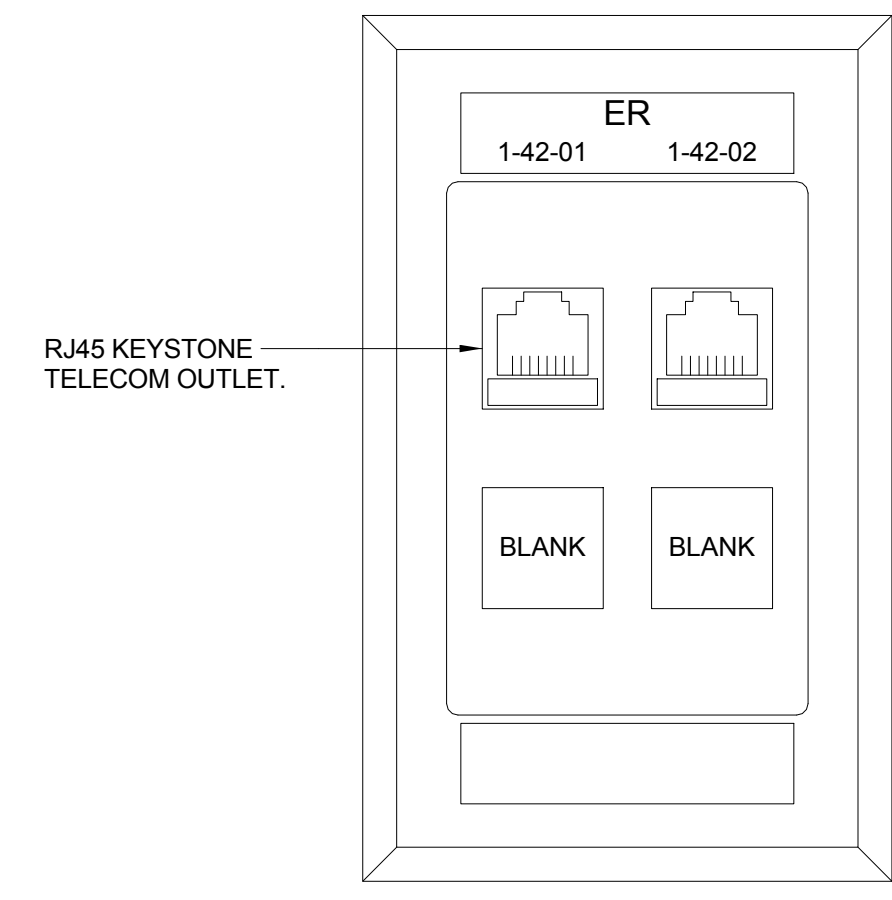
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E502	

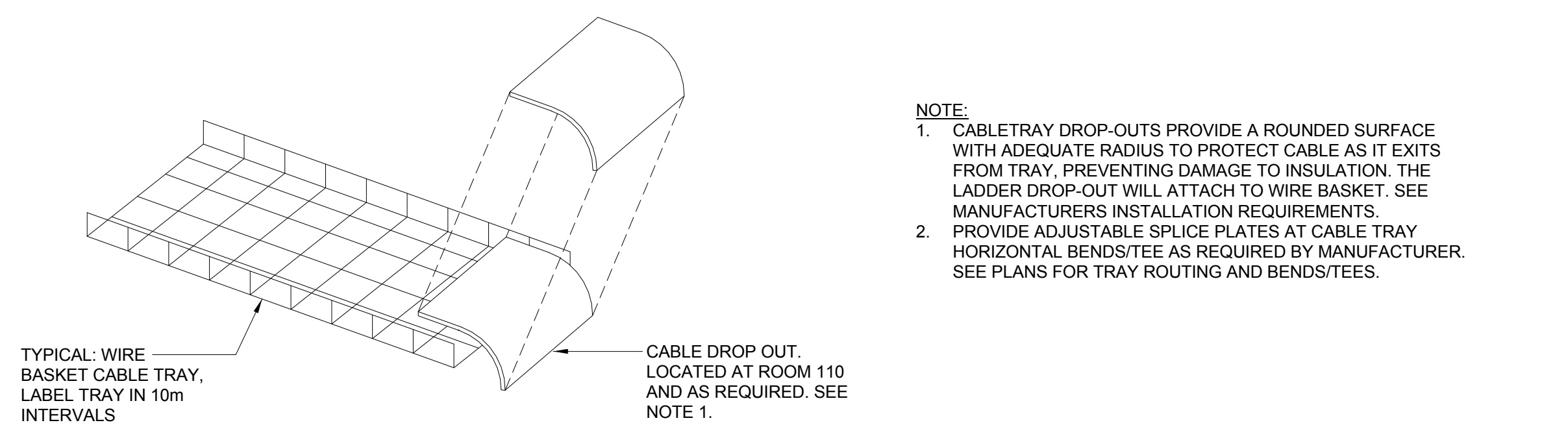
NOTES:
 1. SEE PLANS FOR QUANTITIES AND LOCATIONS REQUIRED.



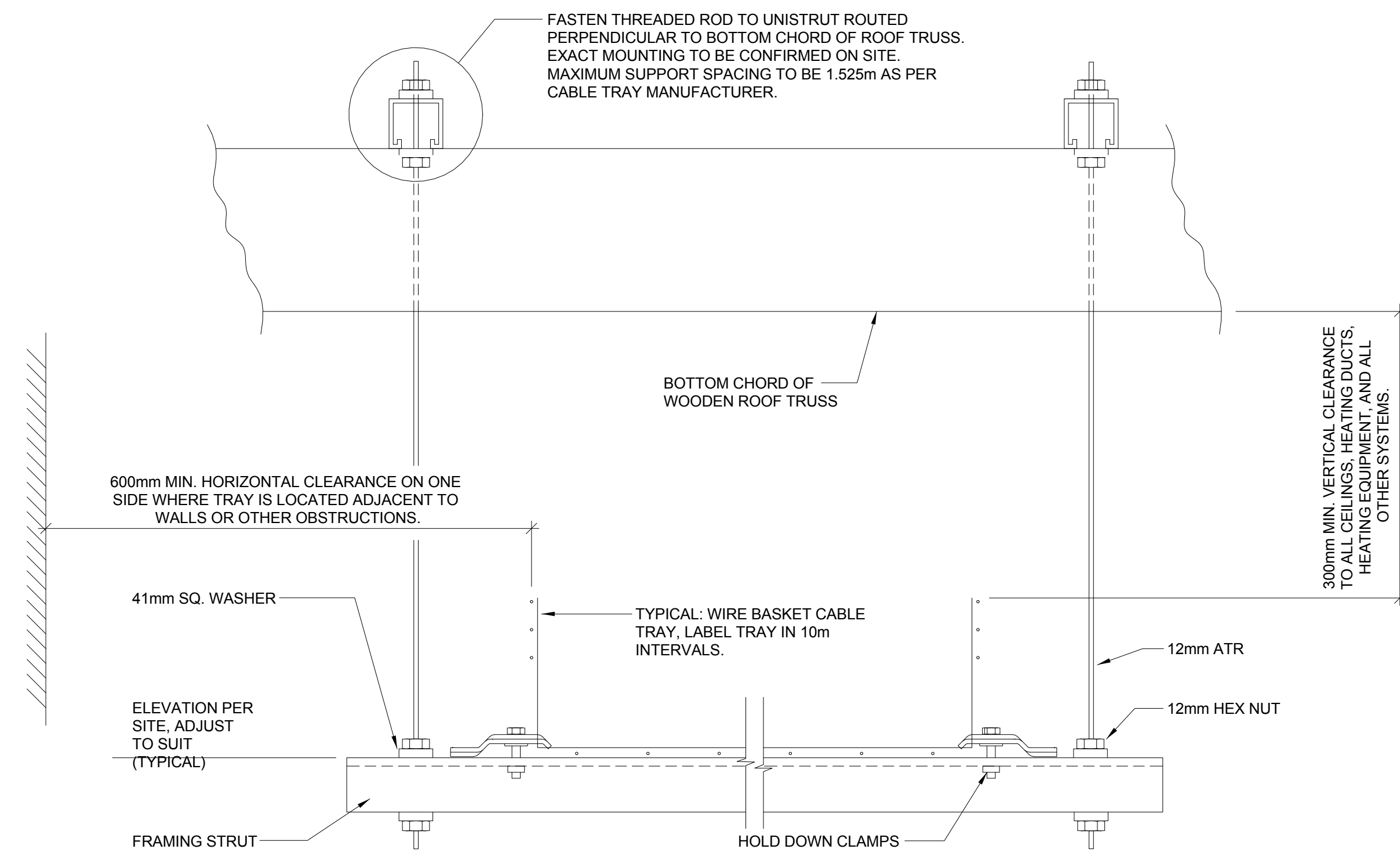
3 EQUIPMENT LAYOUT DETAIL
 E502 N.T.S.



4 TYPICAL FACEPLATE LABELING
 E502 N.T.S.



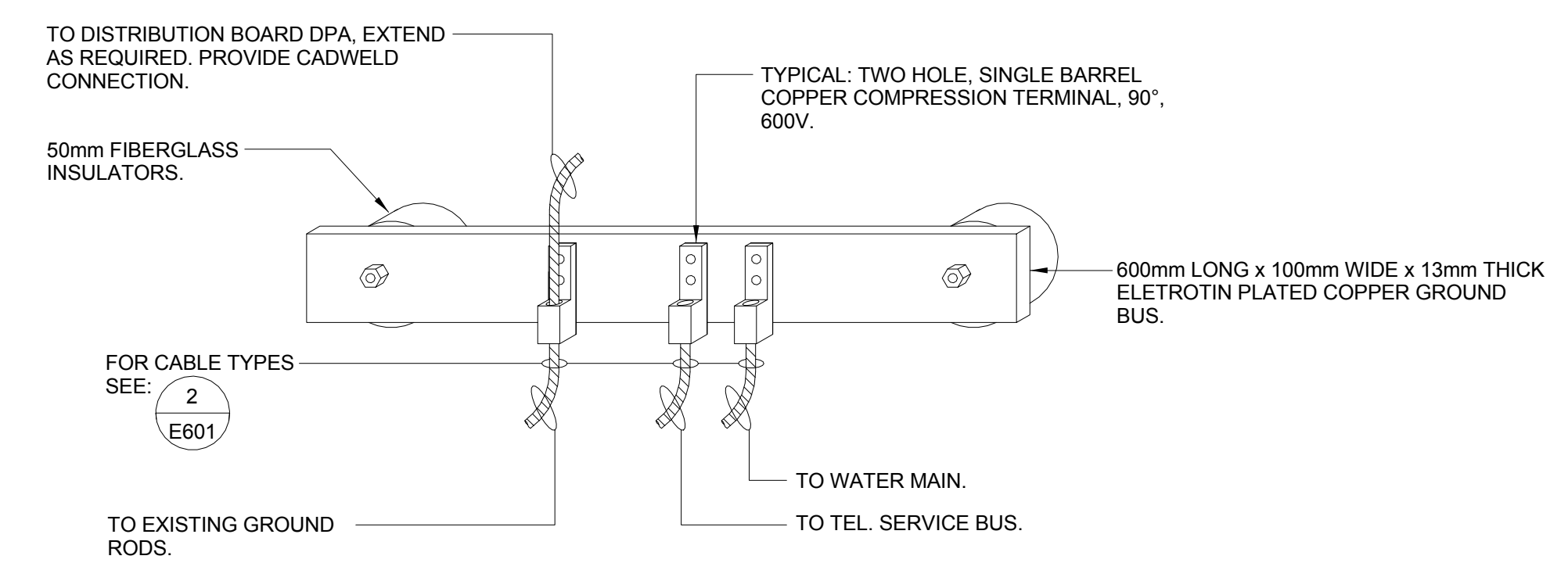
NOTE:
 1. CABLETRAY DROP-OUTS PROVIDE A ROUNDED SURFACE WITH ADEQUATE RADIUS TO PROTECT CABLE AS IT EXITS FROM TRAY, PREVENTING DAMAGE TO INSULATION. THE LADDER DROP-OUT WILL ATTACH TO WIRE BASKET. SEE MANUFACTURERS INSTALLATION REQUIREMENTS.
 2. PROVIDE ADJUSTABLE SPLICE PLATES AT CABLE TRAY HORIZONTAL BENDS/TEE AS REQUIRED BY MANUFACTURER. SEE PLANS FOR TRAY ROUTING AND BENDS/TEES.



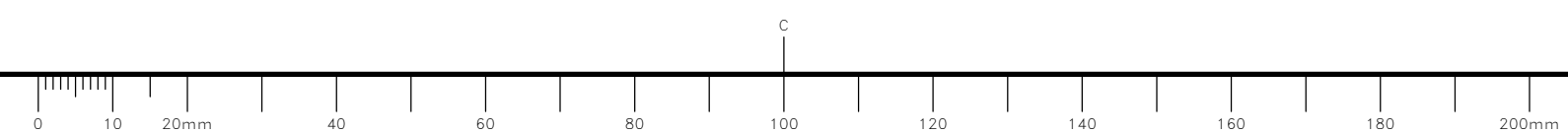
1 CABLETRAY TRAPEZE HANGER
 E502 N.T.S.

NOTES:

1. TERMINATE CONDUITS CONTAINING GROUND CONDUCTORS 150mm BELOW OR ABOVE BUS WITH NYLON INSULATED GROUNDING BUSHINGS & #14 BONDING JUMPER.
2. DRILL GROUND BUS TO ACCOMMODATE SPECIFIED CONNECTORS.

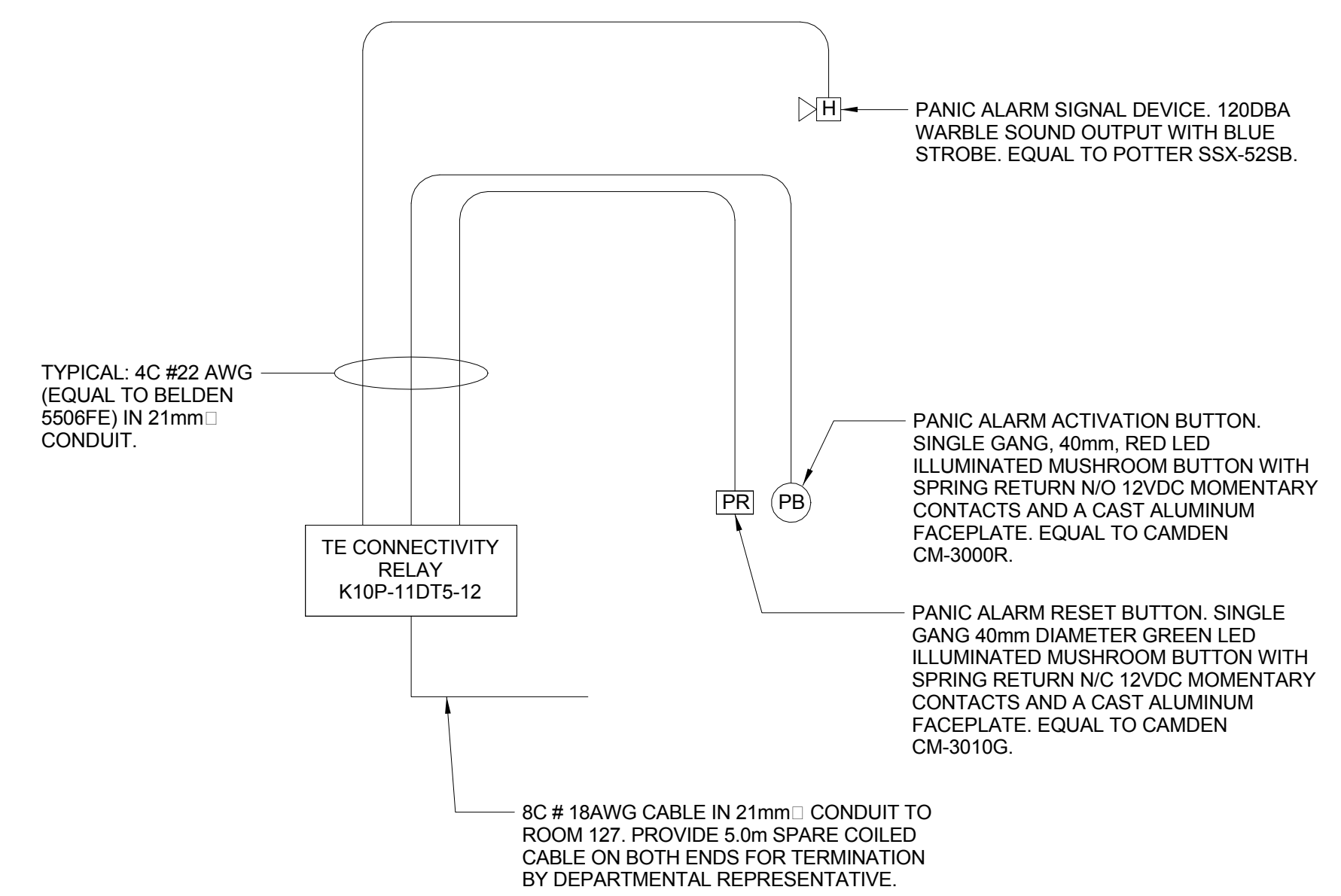
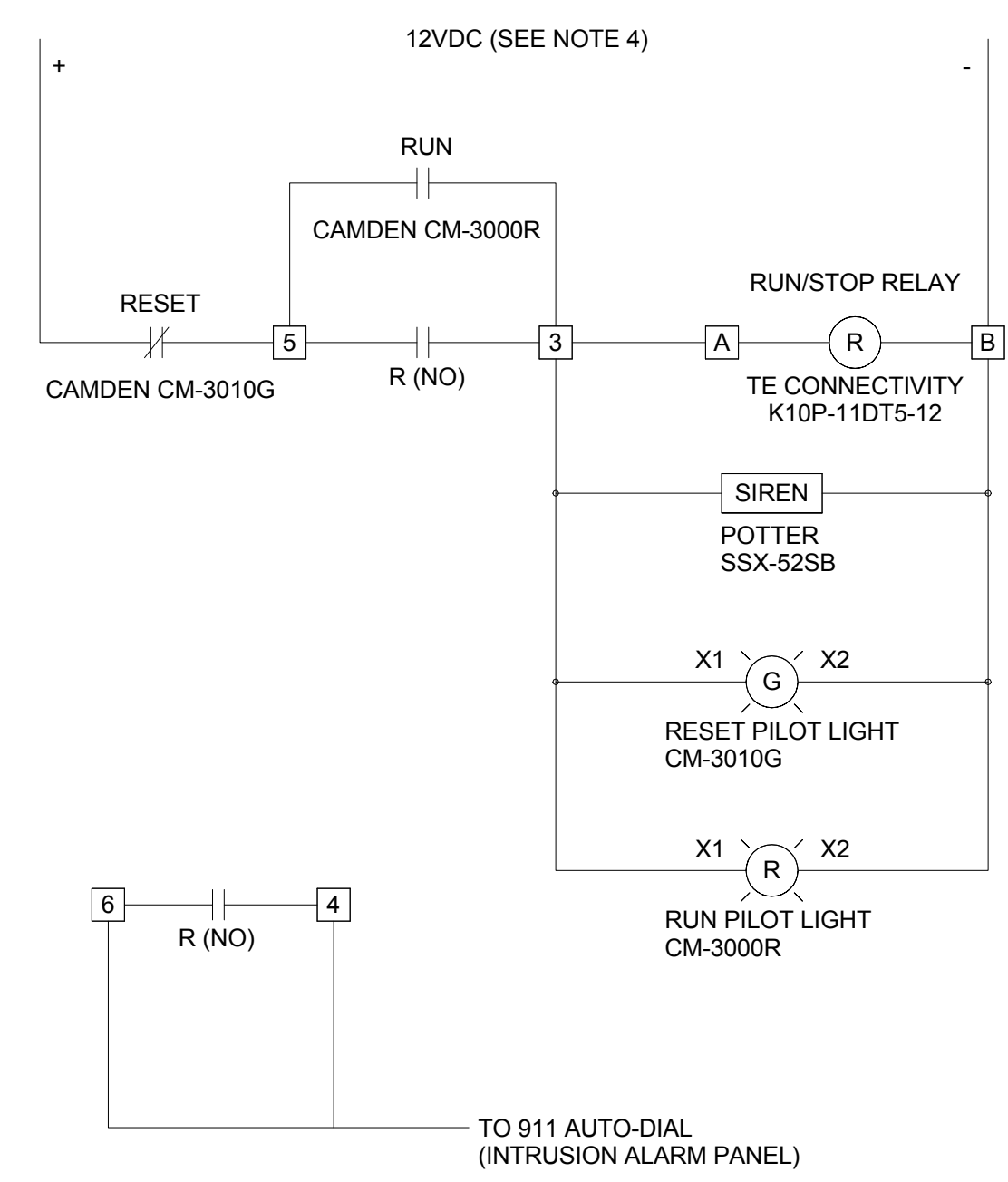


2 MAIN GROUND BUS DETAIL
 E502 N.T.S.



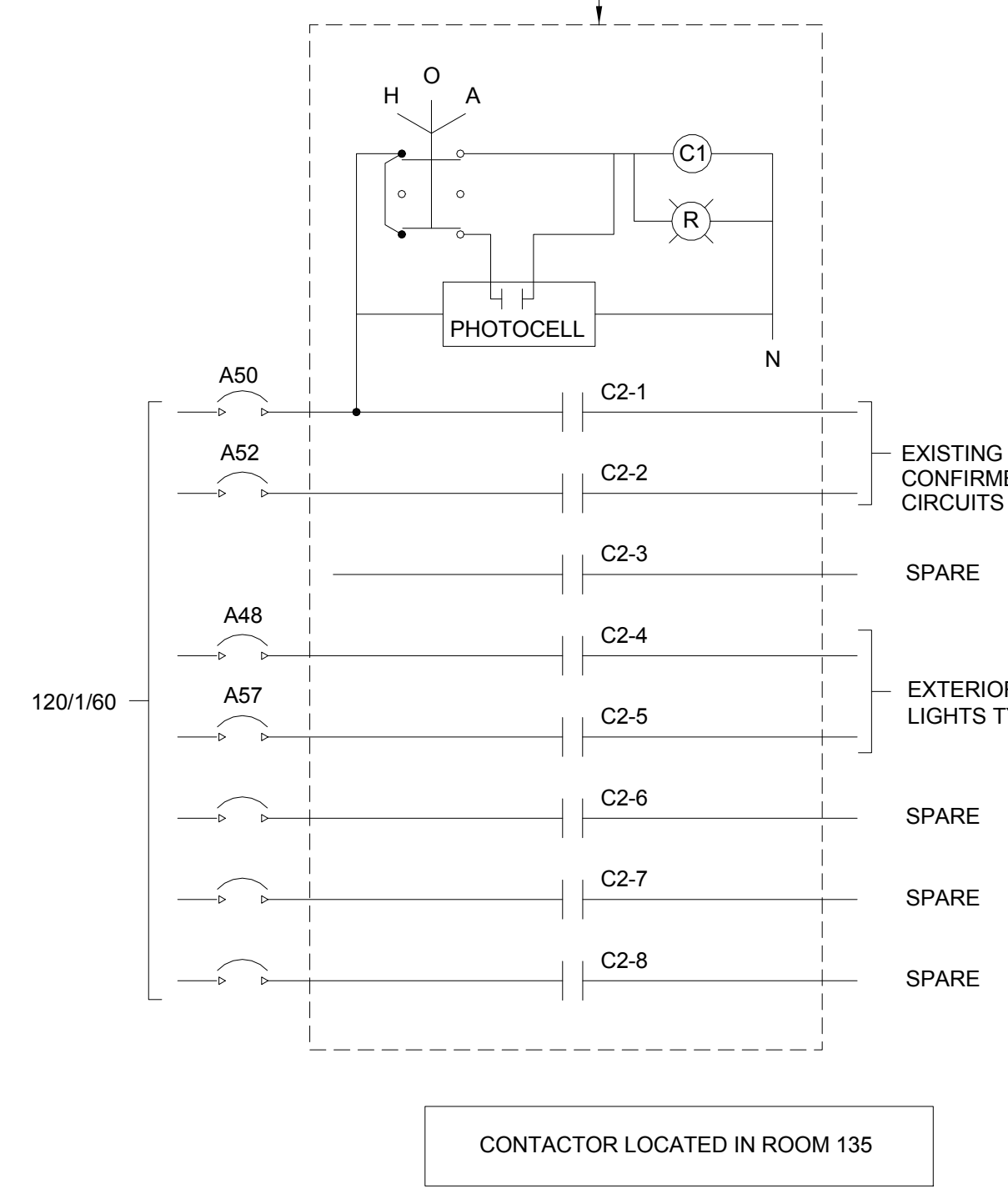
- NOTES:**
1. ALL DEVICES NOTED BELOW SUPPLIED, INSTALLED AND COMMISSIONED BY CONTRACTOR. CONTRACTOR TO INSTALL WIRING/CONDUIT AND JUNCTION BOXES AS PER PLANS.
 2. REFER TO FLOOR PLANS FOR QUANTITIES AND LOCATIONS.
 3. PROVIDE PANIC ALARM RUN/STOP RELAY FOR MOMENTARY CONTACT INPUTS AS REQUIRED. EQUAL TO TE CONNECTIVITY K10P-11DT5-12.
 4. COORDINATE WITH THE DEPARTMENTAL REPRESENTATIVE TO CONNECT THE 12VDC POWER SUPPLY AND 911 CONNECTION IN THE INTRUSION ALARM PANEL.
 5. PROVIDE 305mm X 305mm X 150mm JUNCTION BOX FOR WIRING DEVICES INTERCONNECTIONS. LOCATE JUNCTION BOX IN CEILING SPACE WITHIN ROOM.

PANIC ALARM SEQUENCE OF OPERATION:
 PRESSING THE PANIC ALARM BUTTON SHALL SEND A 911 AUTO-DIAL SIGNAL TO THE INTRUSION ALARM PANEL. ACTIVATE CORRESPONDING PANIC ALARM/STROBE AND ILLUMINATE BOTH PANIC BUTTON AND RESET BUTTONS. WHEN THE RESET BUTTON IS PUSHED, THE CORRESPONDING PANIC ALARM/STROBE SHALL BE DEACTIVATED AND BOTH THE PANIC BUTTON AND RESET BUTTON LIGHTS SHALL TURN OFF. EACH ROOMS ALARM SHALL OPERATE INDEPENDENTLY. USE WIRE TYPES LISTED IN DETAIL AS REQUIRED TO MAKE CONNECTIONS. INSTALL SIZE 4 NAME PLATES (SEE SPECIFICATION) BELOW THE PANIC ALARM STROBES, THE ACTIVATION BUTTONS AND RESET BUTTONS. THE ACTIVATION BUTTON LABEL SHALL READ 'PUSH FOR HELP', THE RESET BUTTON LABEL SHALL READ 'PUSH TO RESET ALARM'. FOR ROOM 123 STROBE LABEL, CONSULT WITH DEPARTMENTAL REPRESENTATIVE FOR EXACT WORDING TO BE APPLIED TO LAMACOID LABEL.



1 PANIC ALARM SCHEMATIC
 E503 N.T.S.

CONTACTOR IN CSA 1 ENCLOSURE. PROVIDE A SIZE 4 LAMACOID NAMEPLATE. SIZE AS REQUIRED.



- NOTES**
- H-O-A - HAND-OFF-AUTO SELECTOR SWITCH LOCATED IN FRONT COVER OF CONTACTOR.
 - C1 - CONTACTOR 30A 120V, 8 POLE, MECHANICALLY HELD. MOUNT IN GENERAL PURPOSE ENCLOSURE WITH RED PILOT LIGHT AND HAND-OFF-AUTO SELECTOR SWITCH. PROVIDE LAMACOID LABEL INDICATING "EXTERIOR LIGHTING".

2 EXTERIOR LIGHTING CONTACTOR
 E503 N.T.S.



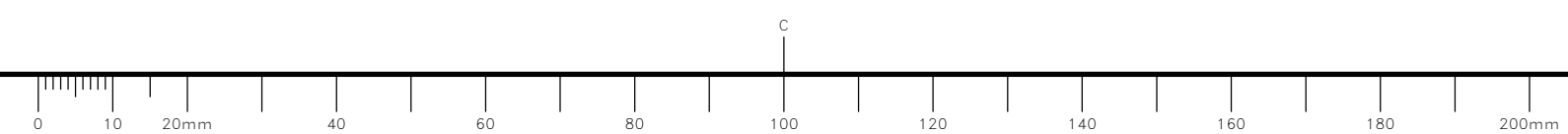
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drawing dessin
ELECTRICAL DETAILS

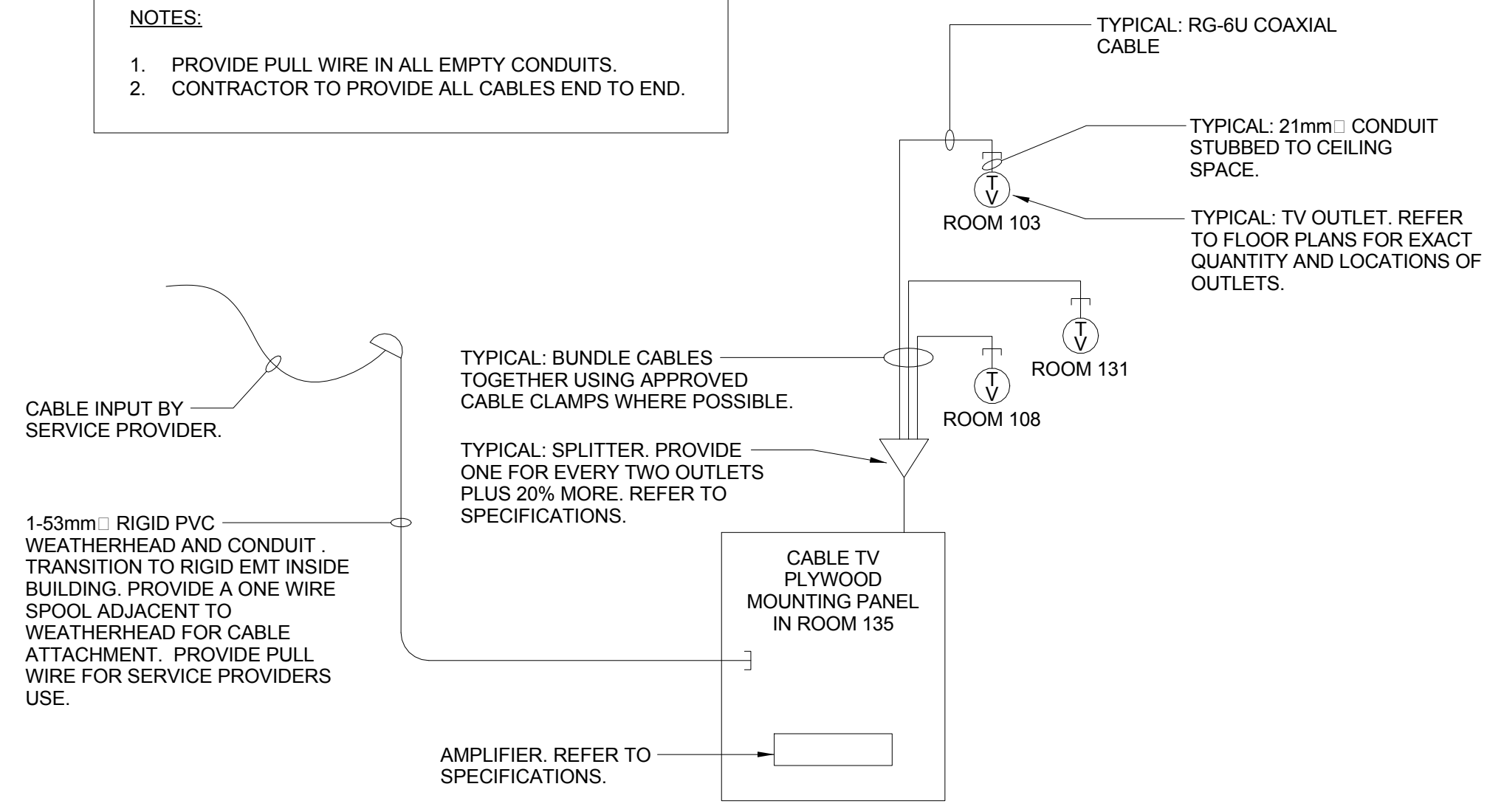
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project number no. du projet	1005744
drawing no. no. du dessin	E503





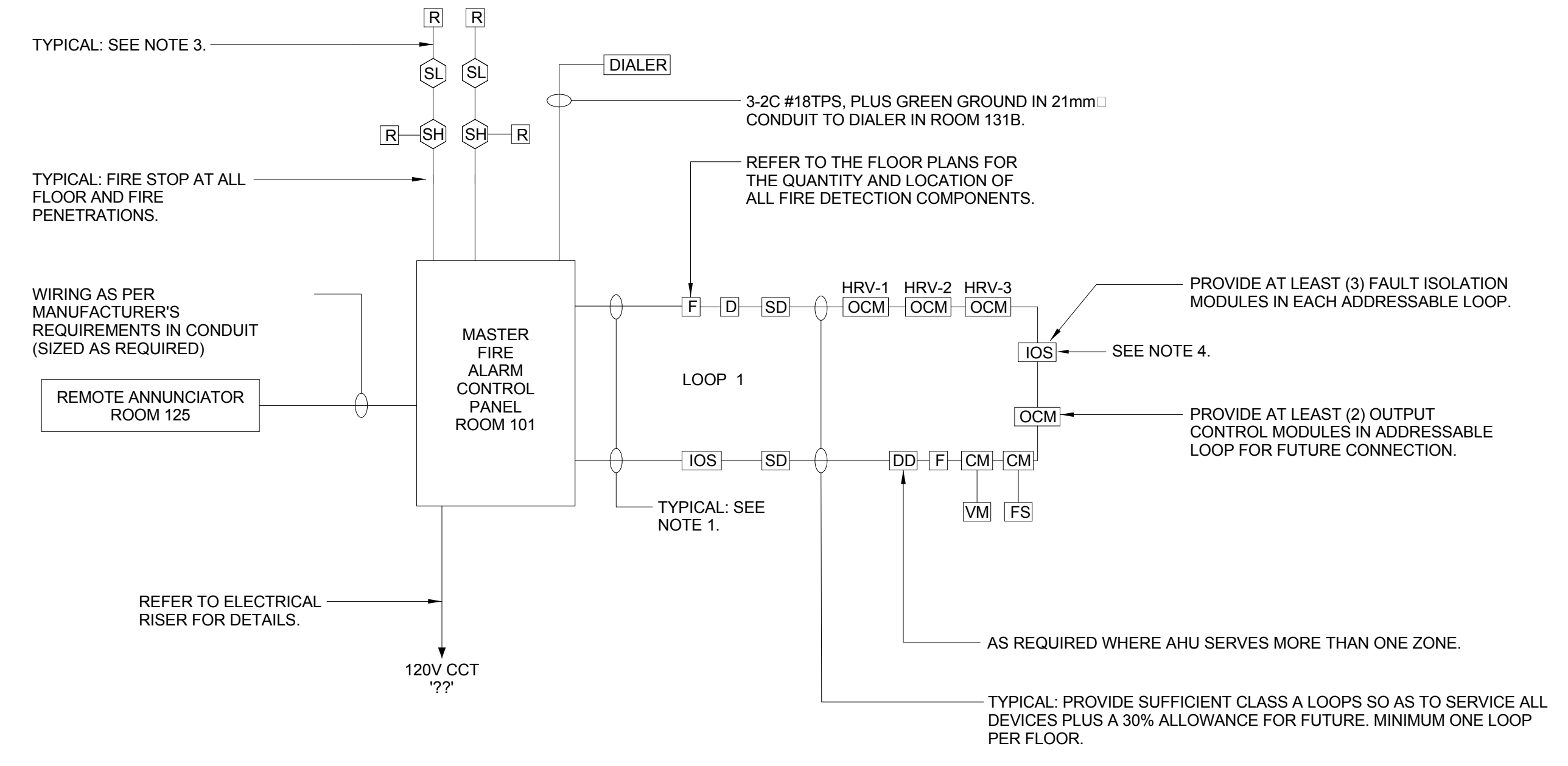
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NOTES:
 1. PROVIDE PULL WIRE IN ALL EMPTY CONDUITS.
 2. CONTRACTOR TO PROVIDE ALL CABLES END TO END.



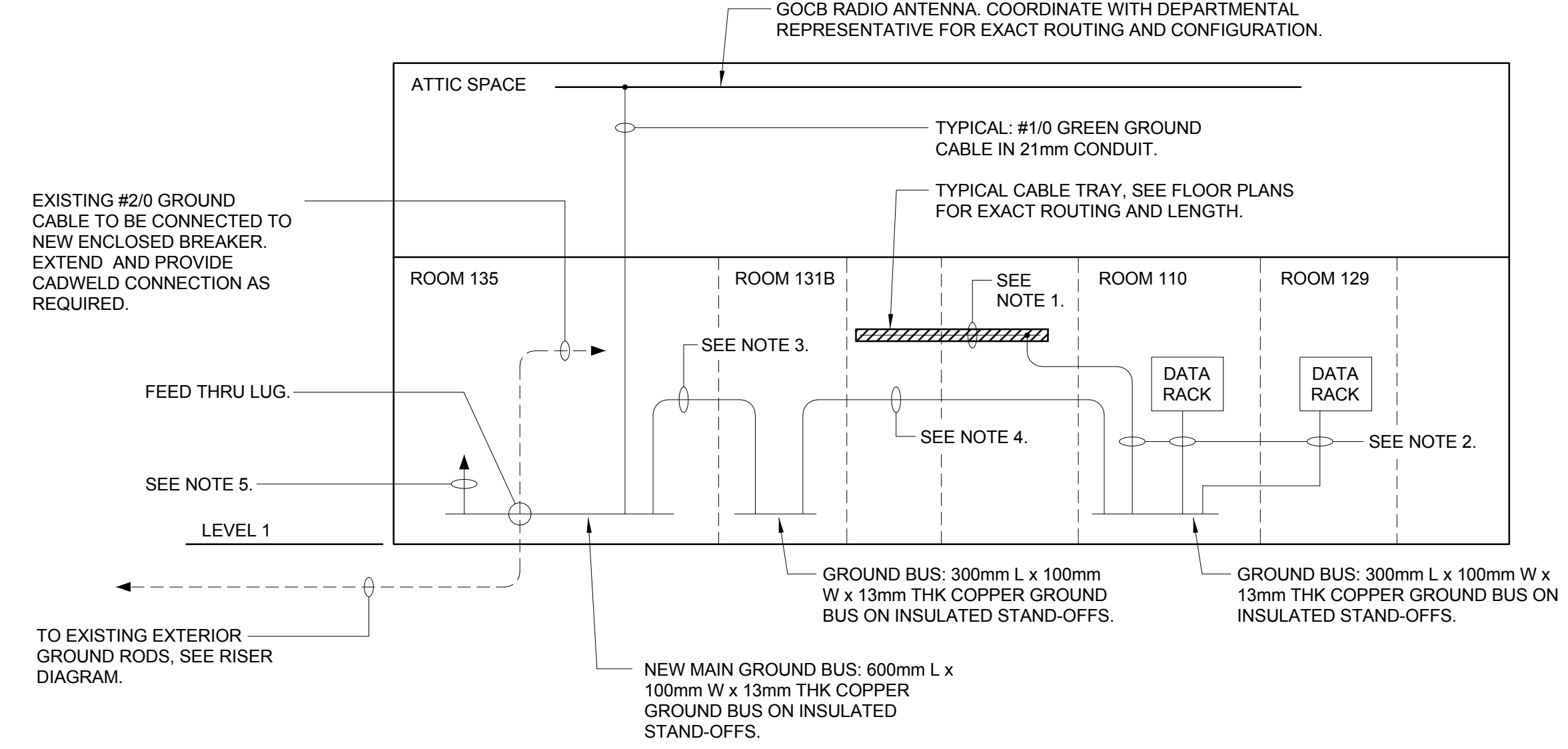
3 CABLE TELEVISION RISER DIAGRAM
 E601 N.T.S.

NOTES:
 1. MASTER ADDRESSABLE LOOP CONSISTS OF 2-2C #18 TWISTED PAIR SHIELDED ULC CERTIFIED FIRE DETECTION SYSTEM CABLES PLUS GREEN GROUND IN 21mmØ. GROUND ALL BACK BOXES.
 2. REFER TO FLOOR PLANS FOR EXACT NUMBER AND LOCATION OF COMPONENTS WHICH ARE REQUIRED. ALL DEVICES SHOWN ON FLOOR PLANS TO BE INCLUDED.
 3. TYPICAL: PROVIDE ONE SIGNAL CIRCUIT. DO NOT INSTALL SIGNAL CIRCUITS IN CONDUITS WITH INITIATING CIRCUITS. PROVIDE END OF THE LINE RESISTORS FOR SIGNAL CIRCUIT AT AN APPROPRIATE LOCATION NEAR LAST DEVICE. HORNS AND STROBES TO BE CONNECTED TO SEPARATE CIRCUITS.
 4. ISOLATION MODULES TO BE INSTALLED TO ISOLATE ZONES WHERE LOOP:
 A) EXITS/ENTERS SERVICE SPACE.
 5. ALL WIRING TO BE CONCEALED IN 21mmØ EMT CONDUIT.



1 FIRE ALARM SYSTEM RISER DIAGRAM
 E601 N.T.S.

NOTES:
 1. 1C #6 GROUND ENTIRE LENGTH OF NEW TRAY, (C/W GROUND CLAMPS: TWO REQUIRED PER 20FT LENGTH) AND CONNECT TO GROUND BUS. SEE DETAIL 1/E-503. GROUND WIRE ROUTED WITHIN SERVER ROOM TO BE IN 21mm DIA. EMT CONDUIT FROM TRAY TO GROUND BUS.
 2. 1C #6 GROUND IN 21mm DIA. CONDUIT FROM DATA RACKS/CABLETRAY AS INDICATED TO GROUND BUS IN ROOM 110.
 3. 1C #2/0 GROUND IN 27mm DIA. CONDUIT FROM ROOM 135 TO ROOM 131B AS INDICATED.
 4. 1C #2/0 GROUND IN 27mm DIA. CONDUIT FROM ROOM 131B TO ROOM 110 AS INDICATED.
 5. 1C #6 GROUND IN 21mm DIA. CONDUIT TO WATER MAIN.



2 GROUNDING RISER DIAGRAM
 E601 N.T.S.

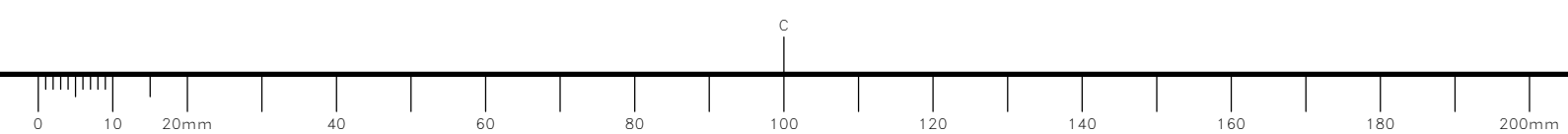
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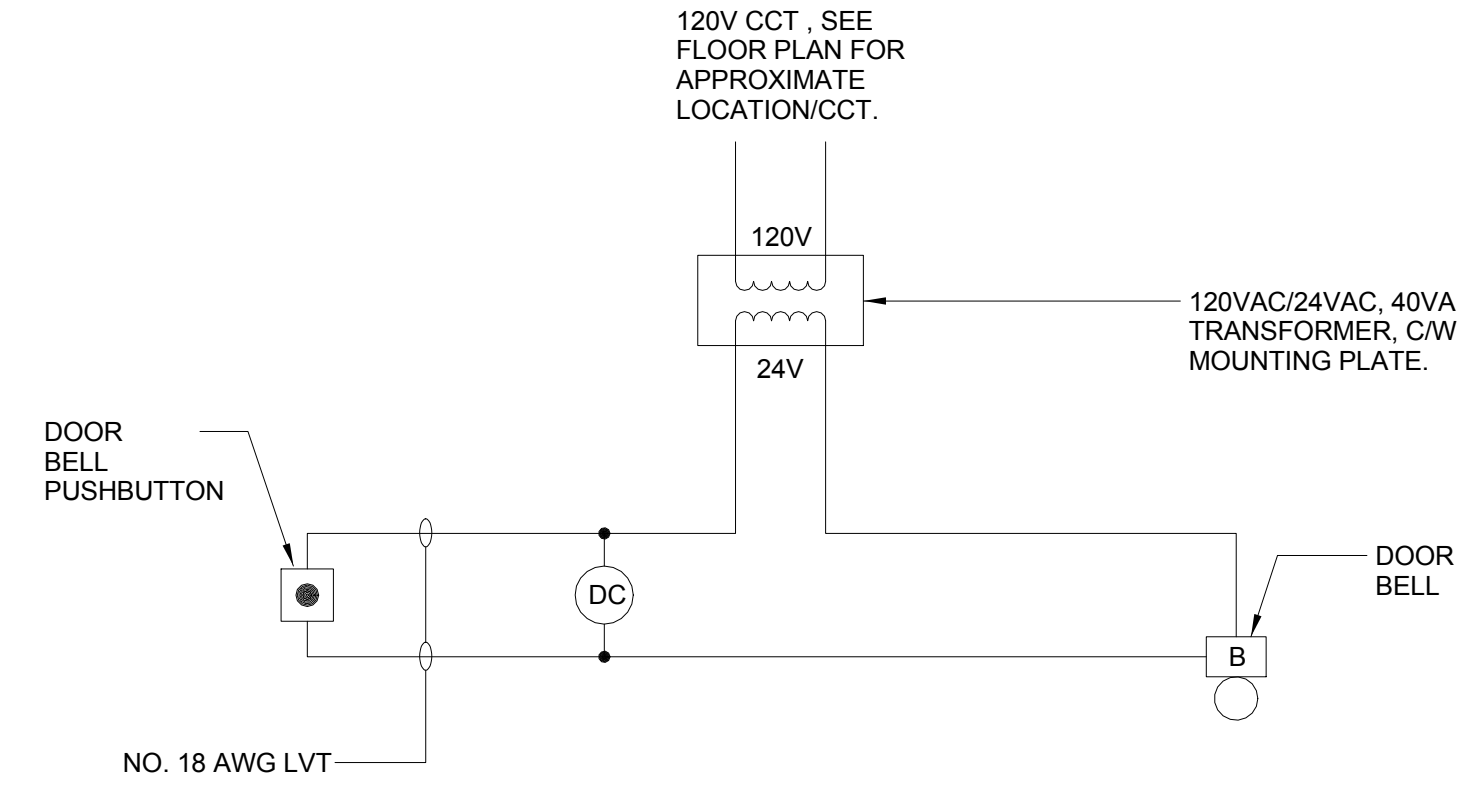
MISC. RISER DIAGRAMS

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project number	no. du projet
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drawing no.	no. du dessin
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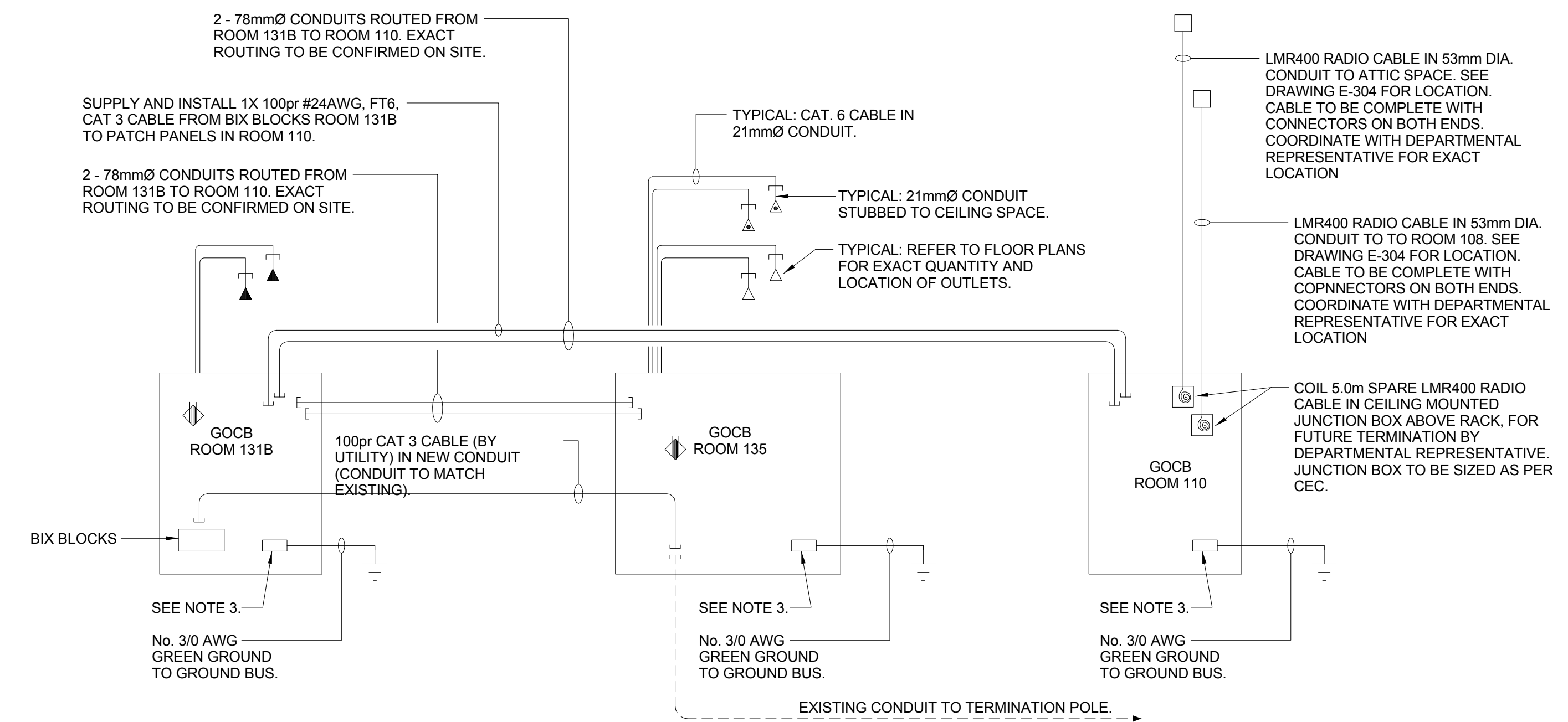


NOTES:

1. INSTALL VOICE & DATA CABLES TO ALL OUTLETS. SEE SPECIFICATIONS.
2. PROVIDE PULL WIRE IN ALL EMPTY CONDUITS. PROVIDE ALL CABLES FROM END TO END WHERE INDICATED.
3. 610mm x 100mm x 13mm COPPER GROUND BUS ON INSULATED STAND-OFFS. SEE DETAIL 1/E-601.
4. SEE DETAIL 4/E502 AND SPECIFICATION FOR LABELING STANDARDS.



3 TYPICAL DOORBELL SCHEMATIC
E602 N.T.S.



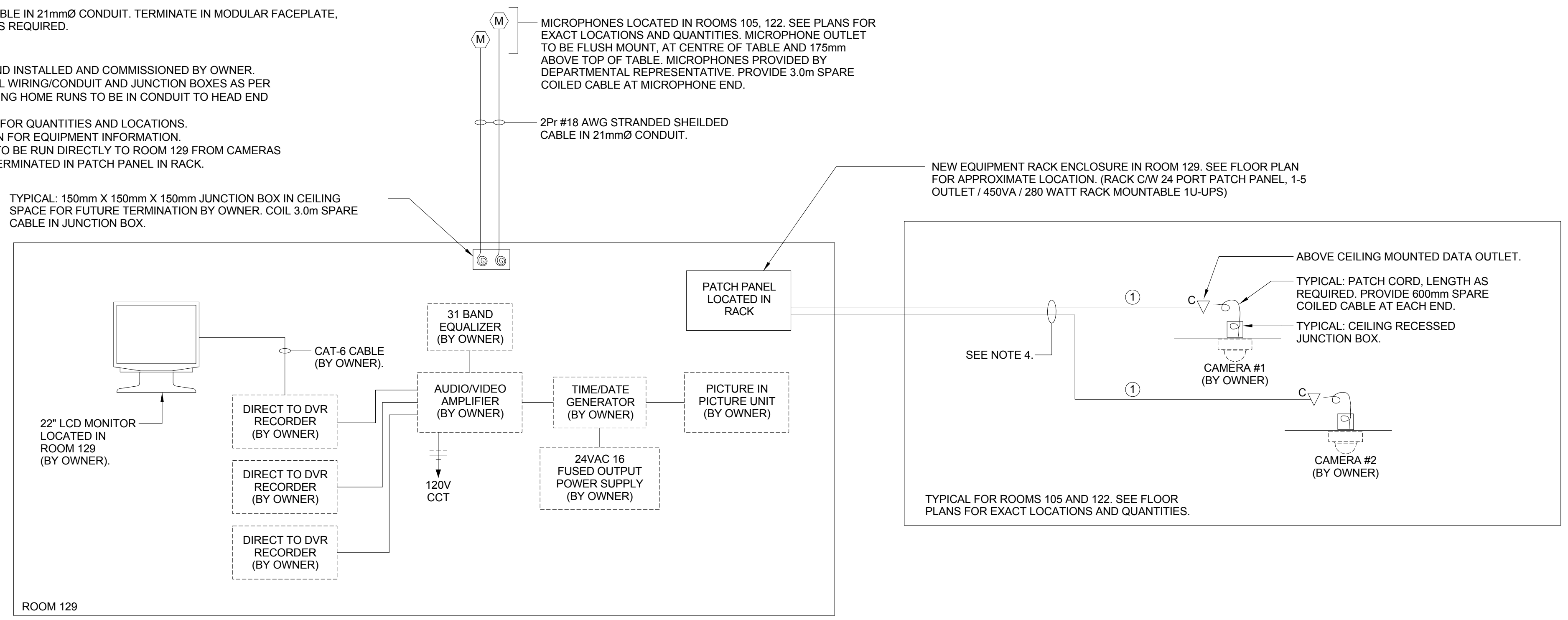
1 TELEPHONE/DATA/RADIO RISER DIAGRAM
E602 N.T.S.

CABLE TYPES:

- 1 TYPE 1 - GREY CAT 6 CABLE IN 21mmØ CONDUIT. TERMINATE IN MODULAR FACEPLATE. PROVIDE PATCH CORD AS REQUIRED.

NOTES:

1. EQUIPMENT SUPPLIED AND INSTALLED AND COMMISSIONED BY OWNER. CONTRACTOR TO INSTALL WIRING/CONDUIT AND JUNCTION BOXES AS PER PLANS. ALL CAMERA WIRING HOME RUNS TO BE IN CONDUIT TO HEAD END EQUIPMENT.
2. REFER TO FLOOR PLANS FOR QUANTITIES AND LOCATIONS.
3. REFER TO SPECIFICATION FOR EQUIPMENT INFORMATION.
4. ALL CAT6E CABLES ARE TO BE RUN DIRECTLY TO ROOM 129 FROM CAMERAS IN ROOMS 105,122 AND TERMINATED IN PATCH PANEL IN RACK.



2 CCTV SYSTEM RISER ROOMS 105 AND 122
E602 N.T.S.

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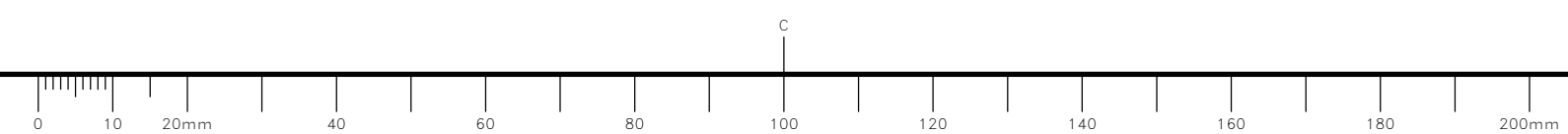
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Bay D'Espoir			
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approved	Approver	approuvé	
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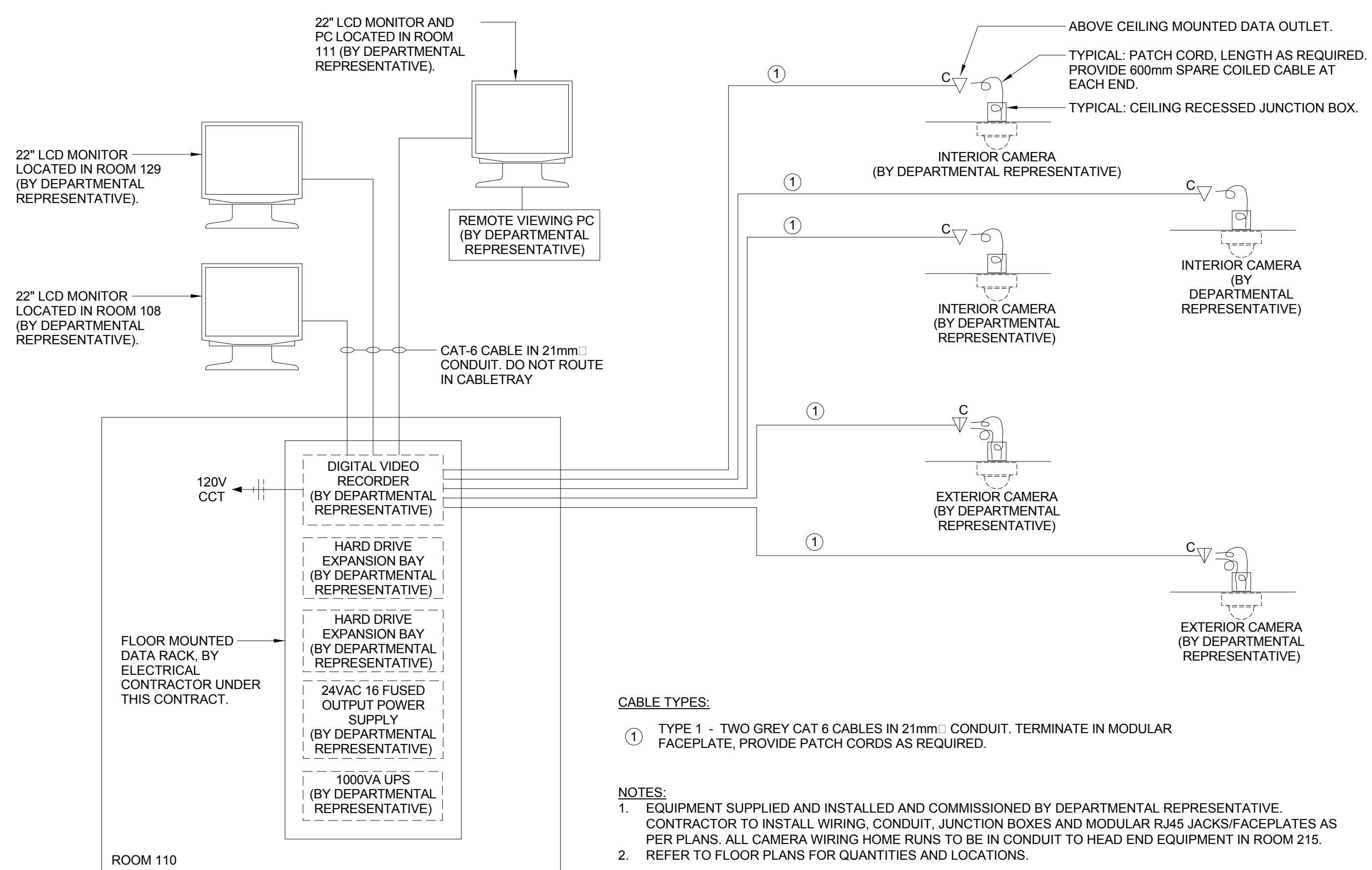
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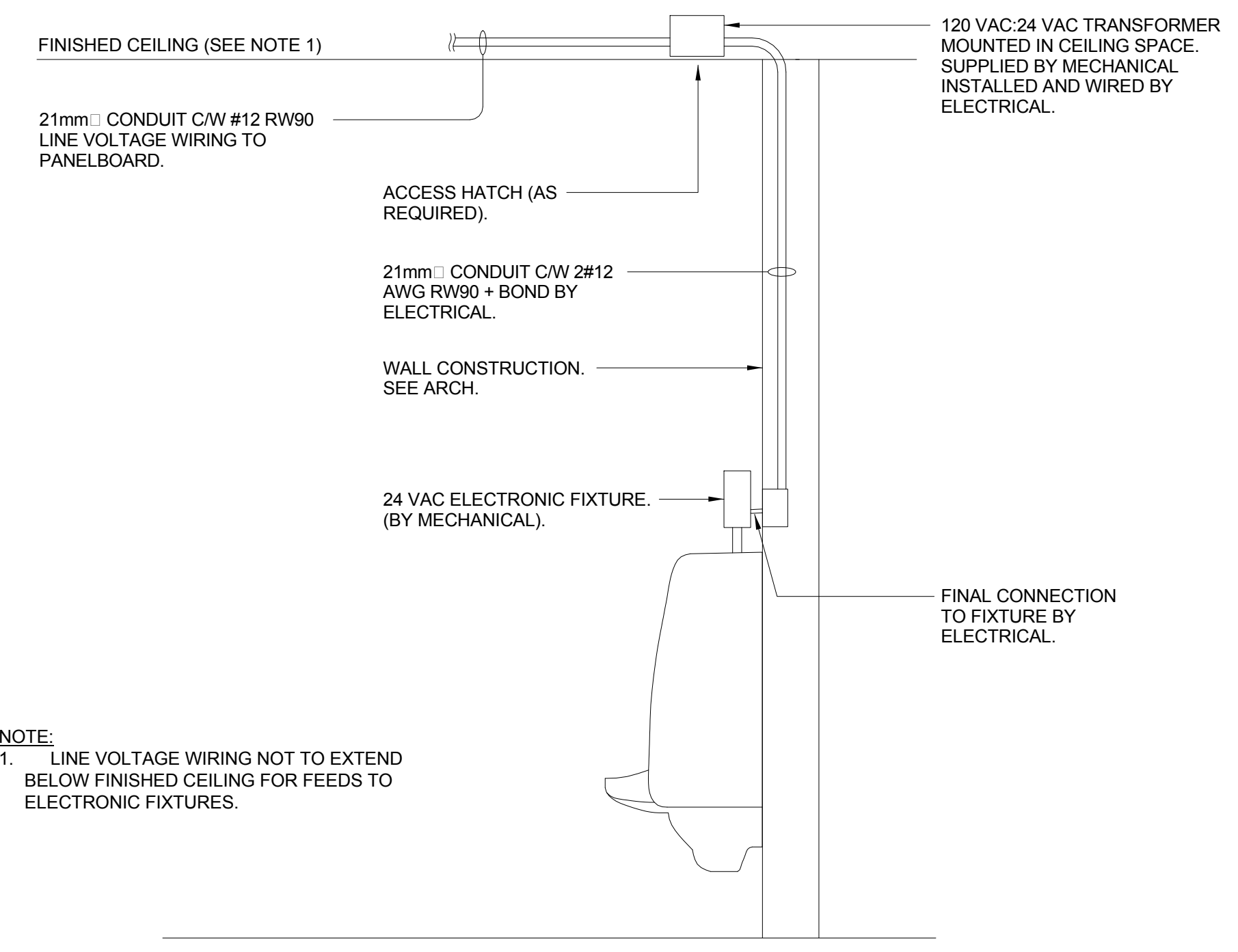
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MISC. RISER DIAGRAM, DETAIL AND SCHEMATIC

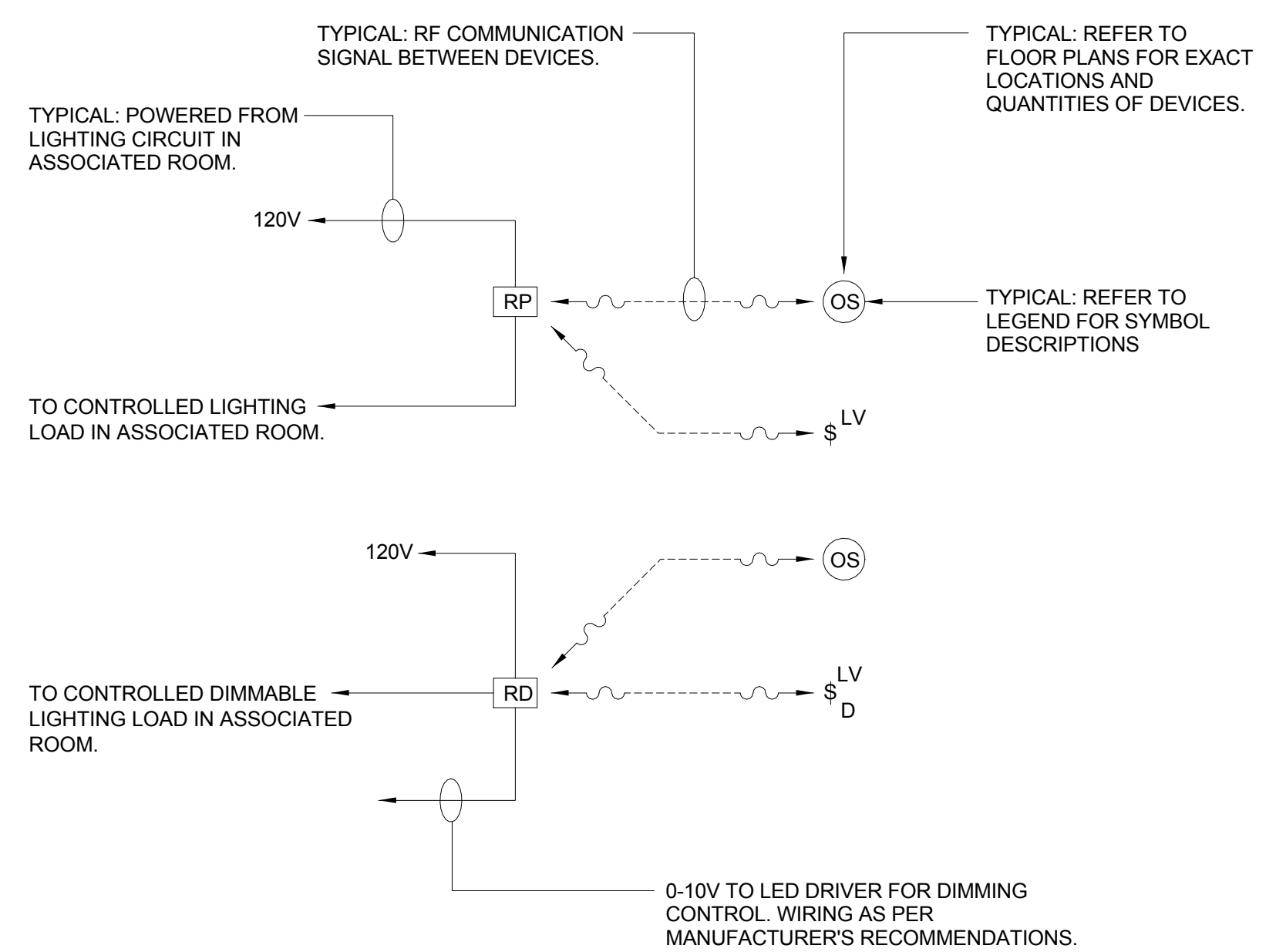
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1 CCTV RISER DIAGRAM
 E603 N.T.S.



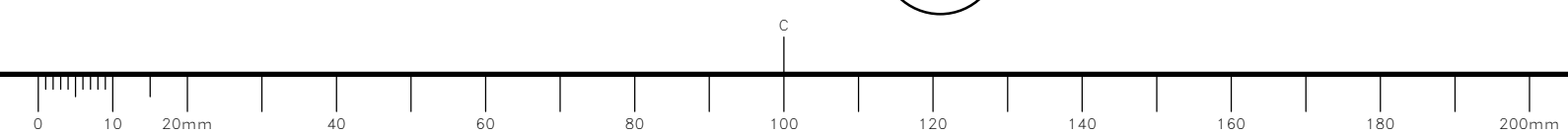
3 TYPICAL ELECTRONIC PLUMBING FIXTURE DETAIL
 E603 N.T.S.



2 LIGHTING CONTROL SCHEMATIC
 E603 N.T.S.

SEQUENCE OF OPERATIONS	
ROOMS	SEQUENCE
103	SEQUENCE: ALL LIGHTING CONTROLLED IN THIS SPACE. ON: SELECT LIGHTING TURNED ON TO 100% BY WIRELESS LIGHTING SWITCH, SELECT LIGHTING TURNED ON TO 100% BY WIRELESS DIMMER SWITCH. ADJUST: SELECT LIGHTING CAN BE ADJUSTED USING WIRELESS DIMMER SWITCH, THROUGH 0-10V WIRELESS DIMMING MODULE. OFF: AFTER THE SPACE HAS BEEN VACANT FOR APPROXIMATELY 15 MINUTES, THE LIGHTS WILL AUTOMATICALLY TURN OFF BY OCCUPANCY SENSOR OR LIGHTS CAN BE TURNED OFF VIA WIRELESS SWITCHES.
103B, 104, 105, 107, 110, 112, 111, 115, 116, 117, 118, 112, 122, 124, 129, 130, 131, 132, 133, 135	SEQUENCE: ALL LIGHTING CONTROLLED IN THIS SPACE. ON: SELECT LIGHTING TURNED ON TO 100% BY WIRELESS LIGHTING SWITCH. OFF: AFTER THE SPACE HAS BEEN VACANT FOR APPROXIMATELY 15 MINUTES, THE LIGHTS WILL AUTOMATICALLY TURN OFF BY OCCUPANCY SENSOR OR LIGHTS CAN BE TURNED OFF VIA WIRELESS SWITCHES. NOTE: SOME ROOMS HAVE UNSWITCHED NIGHT LIGHTS, SEE LEGEND AND LIGHTING FLOOR PLANS.
CORRIDORS 102, 106, 108, 113, 114A, 114B	SEQUENCE: MOST LIGHTING CONTROLLED IN THIS SPACE. SOME NON-SWITCHED LIGHTS IN CORRIDOR CIRCUITED FROM LIFE SAFETY PANEL. ON: SELECT LIGHTING TURNED ON TO 100% BY WIRELESS SWITCH OR OCCUPANCY SENSOR WHEN CORRIDOR OCCUPIED. OFF: AFTER THE SPACE HAS BEEN VACANT FOR APPROXIMATELY 15 MINUTES, SELECT LIGHTS WILL AUTOMATICALLY TURN OFF. NON-SWITCHED LIGHTS WILL REMAIN ON.
119	SEQUENCE: ALL LIGHTING CONTROLLED IN THIS SPACE. ON: SELECT LIGHTING TURNED ON TO 100% BY OCCUPANCY SENSOR OFF: SELECT LIGHTING TURNED OFF BY OCCUPANCY SENSOR.
VESTIBULES 101, 134	SEQUENCE: ALL LIGHTING ALWAYS ON.
OUT BUILDING 301, 302, 303	SEQUENCE: ALL LIGHTING CONTROLLED IN THIS SPACE. ON: ALL LIGHTING IN SPACE TURNED ON BY LINE VOLTAGE (120V) SWITCH. OFF: ALL LIGHTING IN SPACE TURNED OFF BY LINE VOLTAGE (120V) SWITCH.
UNDERCABINET 109, 122A	SEQUENCE: ALL LIGHTING CONTROLLED IN THIS SPACE. ON: UNDERCABINET LIGHTING IN SPACE TURNED ON BY LINE VOLTAGE (120V) SWITCH. OFF: UNDERCABINET LIGHTING IN SPACE TURNED OFF BY LINE VOLTAGE (120V) SWITCH.

- NOTES:**
- ALL DEVICES TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
 - DIAGRAM ABOVE REPRESENTS A TYPICAL CONTROL WIRING SCHEME. REFER TO FLOOR PLANS FOR EXACT NUMBER AND LOCATIONS OF DEVICES.
 - PROVIDE SETUP AND TRAINING FOR END-USERS.

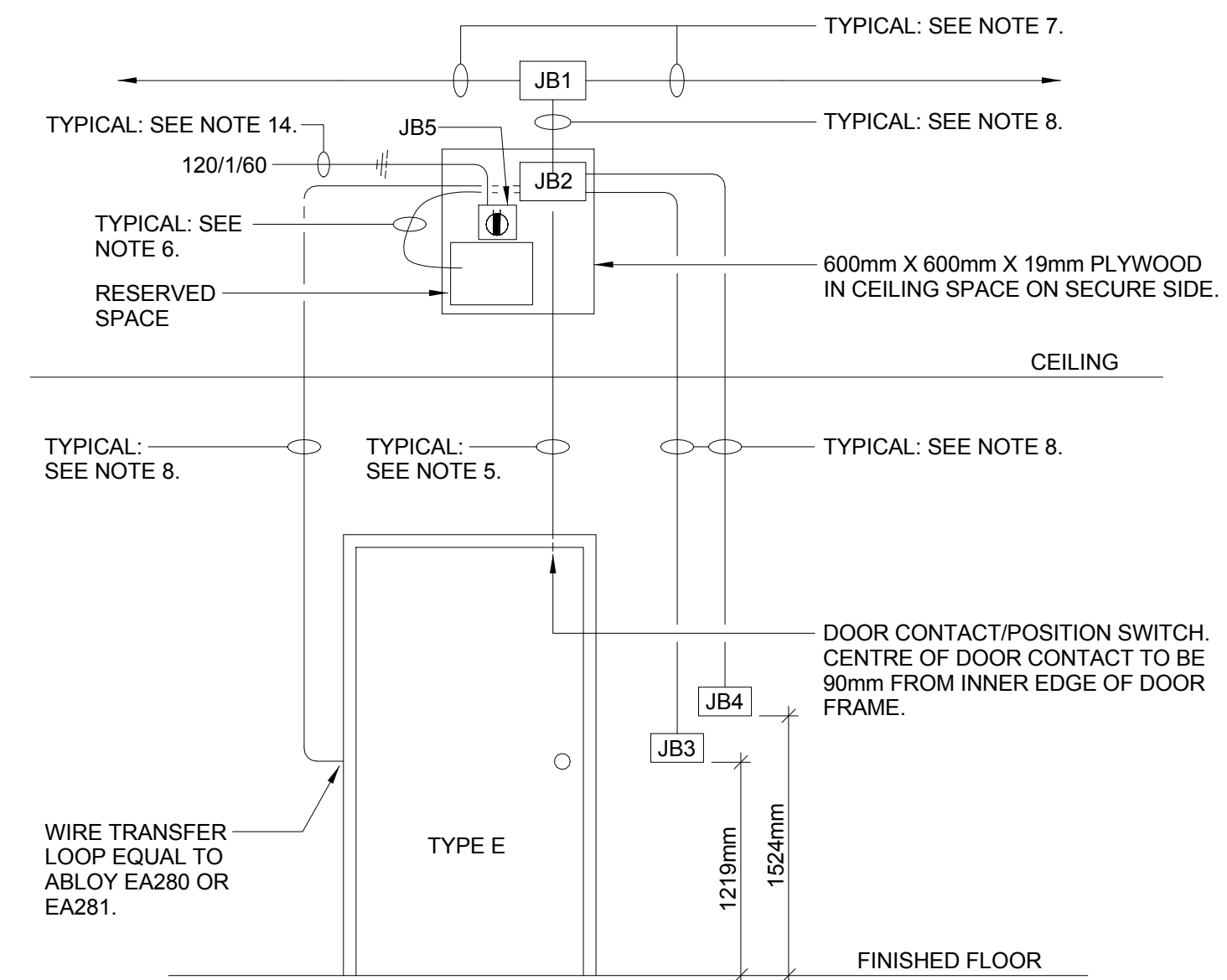


JUNCTION BOX LEGEND:

- JB1** JUNCTION BOX 'JB1' (250mm X 250mm X 100mm) TIED TO THE CLOSEST JUNCTION BOX OF THE MAIN CONDUIT RUN, LOCATED ON SECURE SIDE OF DOOR, WITHIN 1200mm RADIUS OF DOOR.
- JB2** JUNCTION BOX 'JB2' (250mm X 250mm X 75mm), LOCATED ON SECURE SIDE OF DOOR.
- JB3** JUNCTION BOX 'JB3' (50 x 100mm) FOR FUTURE CARD READER BY DEPARTMENTAL REPRESENTATIVE, LOCATED ON NON-SECURE SIDE OF DOOR.
- JB4** JUNCTION BOX 'JB4' (50 x 100mm) FOR FUTURE KEYPAD BY DEPARTMENTAL REPRESENTATIVE, LOCATED ON SECURE SIDE OF DOOR.
- JB5** JUNCTION BOX FOR EMERGENCY POWER RECEPTACLE BY ELECTRICAL CONTRACTOR, LOCATE ON SECURE SIDE OF DOOR AND CENTRE OF PLYWOOD.

NOTES:

1. CONCEALED CONDUIT BELOW CEILING.
2. JUNCTION BOX COVER MUST BE PAINTED PURPLE.
3. JUNCTION BOX ABOVE CEILING MUST BE ACCESSIBLE.
4. DOOR FRAME DRILLED TO ACCEPT CONTACT SWITCH. HOLE TO BE 86mm FROM LOCKSET SIDE, 25mm IN DIAMETER AND 50mm DEEP.
5. 4C #22 AWG SHEILDDED CABLE IN 27mmØ EMT CONDUIT C/W CABLE BY ELECTRICAL CONTRACTOR.
6. 27mmØ FLEXIBLE CONDUIT X 1525mm LONG.
7. 8C #22 AWG CABLE IN 53mmØ EMT CONDUIT C/W CABLE BY ELECTRICAL CONTRACTOR. TERMINATION BY DEPARTMENTAL REPRESENTATIVE.
8. 8C #22 AWG SHEILDDED CABLE IN 21mmØ EMT CONDUIT C/W CABLE BY ELECTRICAL CONTRACTOR. TERMINATION BY DEPARTMENTAL REPRESENTATIVE.
9. WIRING DEVICES SUPPLIED AND INSTALLED BY DEPARTMENTAL REPRESENTATIVE.
10. ALL CONDUIT/BOXES/ROUGH-IN BY ELECTRICAL.
11. ALL 120V WIRING AND CONNECTIONS BY ELECTRICAL.
12. ALL LOW VOLTAGE WIRING BY ELECTRICAL CONTRACTOR.
13. PROVIDE 1.0m COILED CABLE AT EACH END FOR ALL CABLES NOTED, FOR FUTURE TERMINATION BY OTHERS
14. 2 - #12 AWG RW75 COPPER CONDUCTORS PLUS 1 - #12 AWG COPPER BOND IN 21mmØ EMT CONDUIT FOR 120V EMERGENCY POWER.



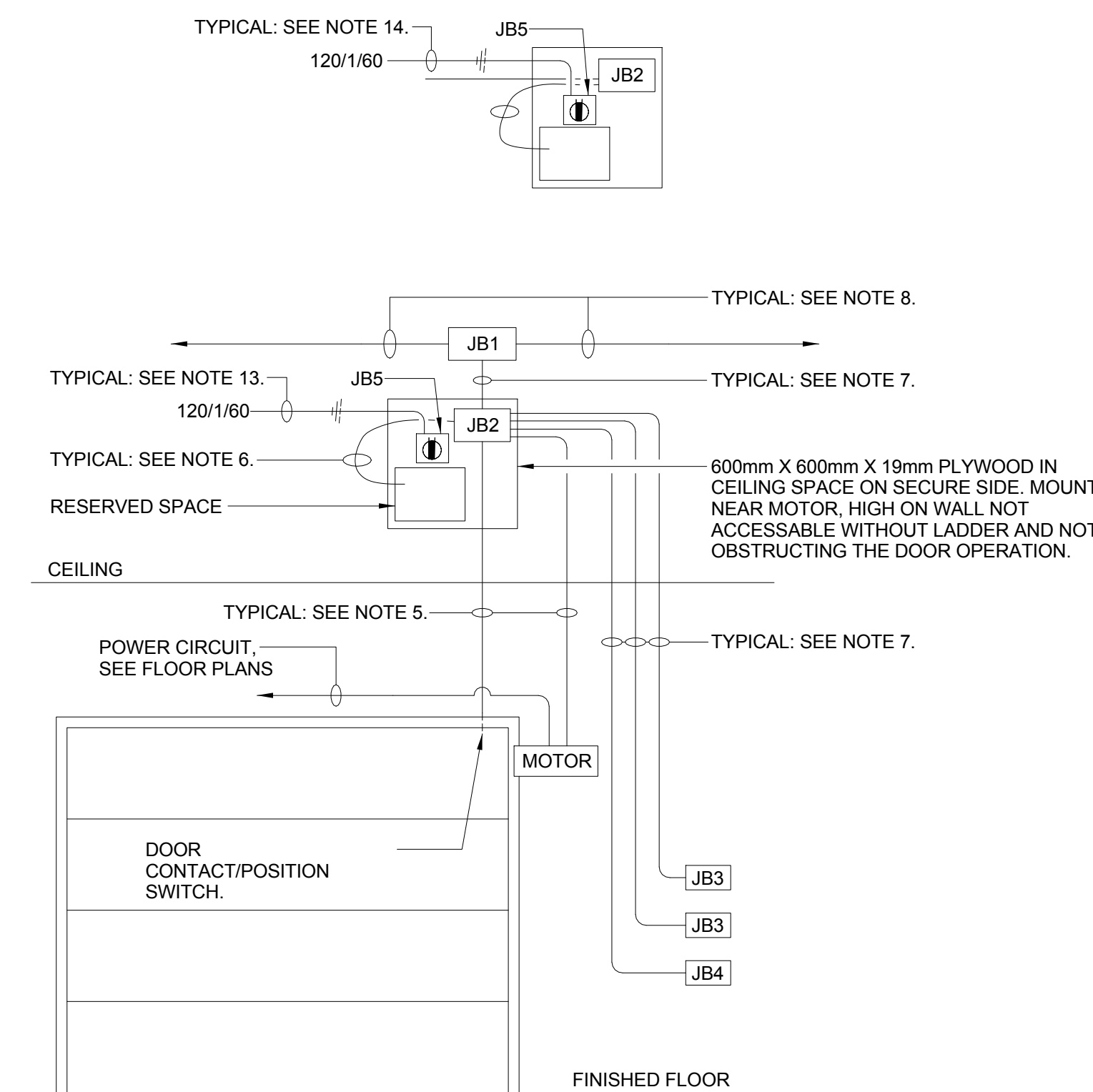
3 DOOR HARDWARE TYPE 'E' ROUGH-IN DETAIL
E604 N.T.S.

JUNCTION BOX LEGEND:

- JB1** JUNCTION BOX 'JB1' (250mm X 250mm X 100mm) TIED TO THE CLOSEST JUNCTION BOX OF THE MAIN CONDUIT RUN, LOCATED ON SECURE SIDE OF DOOR, WITHIN 1200mm RADIUS OF DOOR.
- JB2** JUNCTION BOX 'JB2' (250 x 250 x 100mm), LOCATED ON SECURE SIDE OF DOOR.
- JB3** JUNCTION BOX 'JB3' (50 x 100mm) FOR FUTURE CARD READER BY DEPARTMENTAL REPRESENTATIVE, LOCATED ON BOTH SIDES OF DOOR. EXTERIOR TO BE WEATHERPROOF TYPE.
- JB4** JUNCTION BOX 'JB4' (50 x 100mm) FOR FUTURE KEYPAD BY DEPARTMENTAL REPRESENTATIVE, LOCATED ON SECURE SIDE OF DOOR.
- JB5** JUNCTION BOX 'JB5' FOR EMERGENCY POWER CIRCUIT, BY ELECTRICAL CONTRACTOR, LOCATED ON SECURE SIDE OF DOOR AND CENTRE OF PLYWOOD.

NOTES:

1. CONCEALED CONDUIT BELOW CEILING.
2. JUNCTION BOX COVER MUST BE PAINTED PURPLE.
3. JUNCTION BOX ABOVE CEILING MUST BE ACCESSIBLE.
4. DOOR FRAME DRILLED TO ACCEPT CONTACT SWITCH. HOLE TO BE 86mm FROM LOCKSET SIDE, 25mm IN DIAMETER AND 50mm DEEP.
5. 4C #22 AWG SHEILDDED CABLE IN 21mmØ EMT CONDUIT C/W CABLE BY ELECTRICAL CONTRACTOR. TERMINATION BY DEPARTMENTAL REPRESENTATIVE.
6. 27mmØ FLEXIBLE CONDUIT X 1525mm LONG.
7. 8C #22 AWG SHEILDDED CABLE IN 21mmØ EMT CONDUIT C/W CABLE BY ELECTRICAL CONTRACTOR. TERMINATION BY DEPARTMENTAL REPRESENTATIVE.
8. 8C #22 AWG SHEILDDED CABLE IN 53mmØ EMT CONDUIT C/W CABLE BY ELECTRICAL CONTRACTOR. TERMINATION BY DEPARTMENTAL REPRESENTATIVE.
9. ALL CONDUIT/BOXES/ROUGH-IN BY ELECTRICAL.
10. WIRING DEVICES SUPPLIED AND INSTALLED BY DEPARTMENTAL REPRESENTATIVE.
11. ALL 120V WIRING AND CONNECTIONS BY ELECTRICAL.
12. ALL LOW VOLTAGE WIRING BY ELECTRICAL CONTRACTOR.
13. PROVIDE 1.0m COILED CABLE AT EACH END FOR ALL CABLES NOTED, FOR FUTURE TERMINATION BY OTHERS
14. 2 - #12 AWG RW75 COPPER CONDUCTORS PLUS 1 - #12 AWG COPPER BOND IN 21mmØ EMT CONDUIT FOR 120V EMERGENCY POWER.



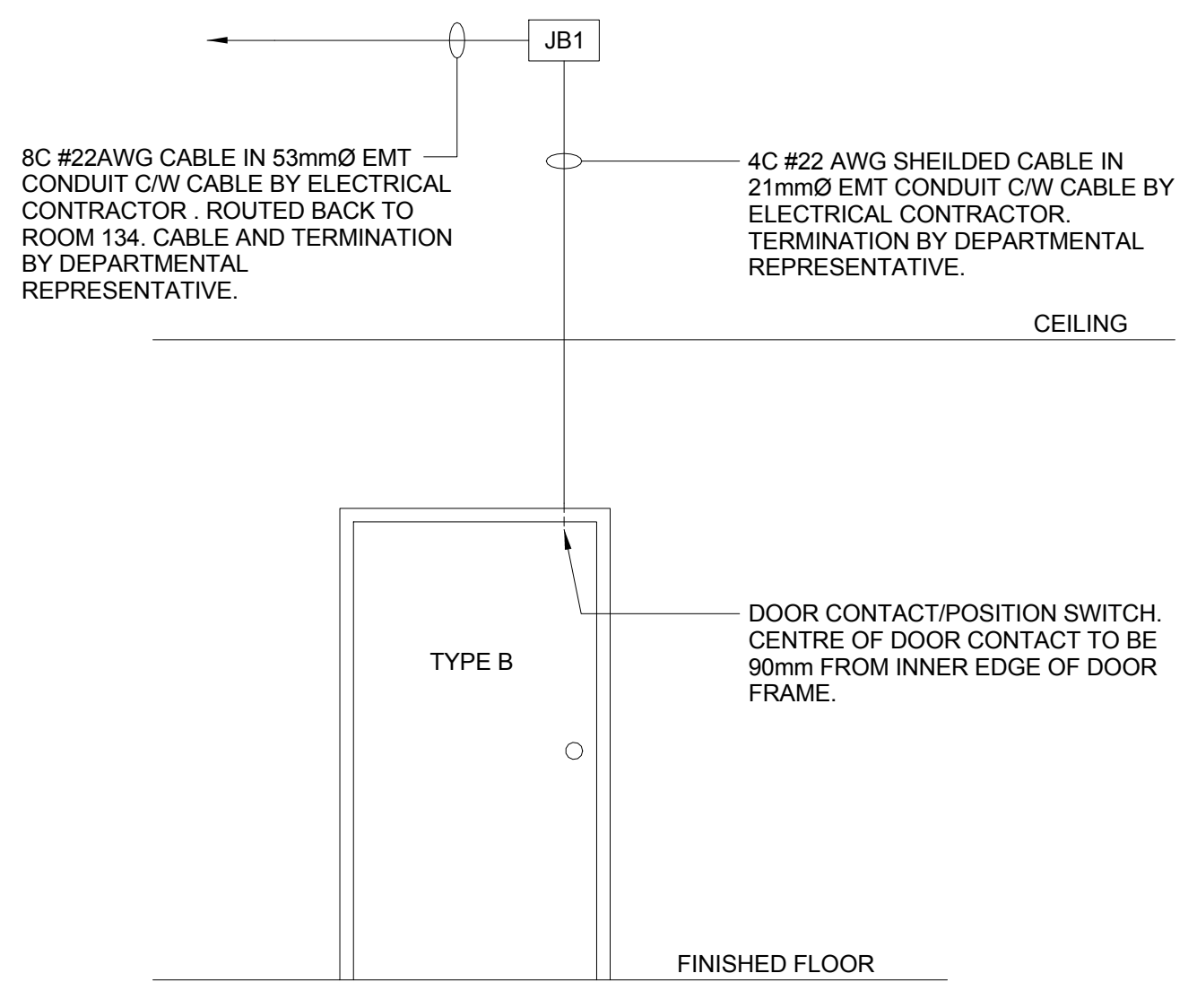
4 DOOR HARDWARE TYPE 'H' ROUGH-IN DETAIL
E604 N.T.S.

JUNCTION BOX LEGEND:

- JB1** JUNCTION BOX 'JB1' (100mm X 100mm X 100mm) TIED TO THE CLOSEST JUNCTION BOX OF THE MAIN CONDUIT RUN, LOCATED ON SECURE SIDE OF DOOR, WITHIN 1200mm RADIUS OF DOOR.

NOTES:

1. CONCEALED CONDUIT BELOW CEILING.
2. JUNCTION BOX COVER MUST BE PAINTED PURPLE.
3. JUNCTION BOX ABOVE CEILING MUST BE ACCESSIBLE.
4. DOOR FRAME DRILLED TO ACCEPT CONTACT SWITCH. HOLE TO BE 86mm FROM LOCKSET SIDE, 25mm IN DIAMETER AND 50mm DEEP.
5. WIRING DEVICES SUPPLIED AND INSTALLED BY OWNER.
6. ALL CONDUIT/BOXES/ROUGH-IN BY ELECTRICAL.
7. ALL 120V WIRING AND CONNECTIONS BY ELECTRICAL.
8. ALL LOW VOLTAGE WIRING BY ELECTRICAL CONTRACTOR.
9. PROVIDE 1.0m COILED CABLE AT EACH END FOR ALL CABLES NOTED, FOR FUTURE TERMINATION BY OTHERS.



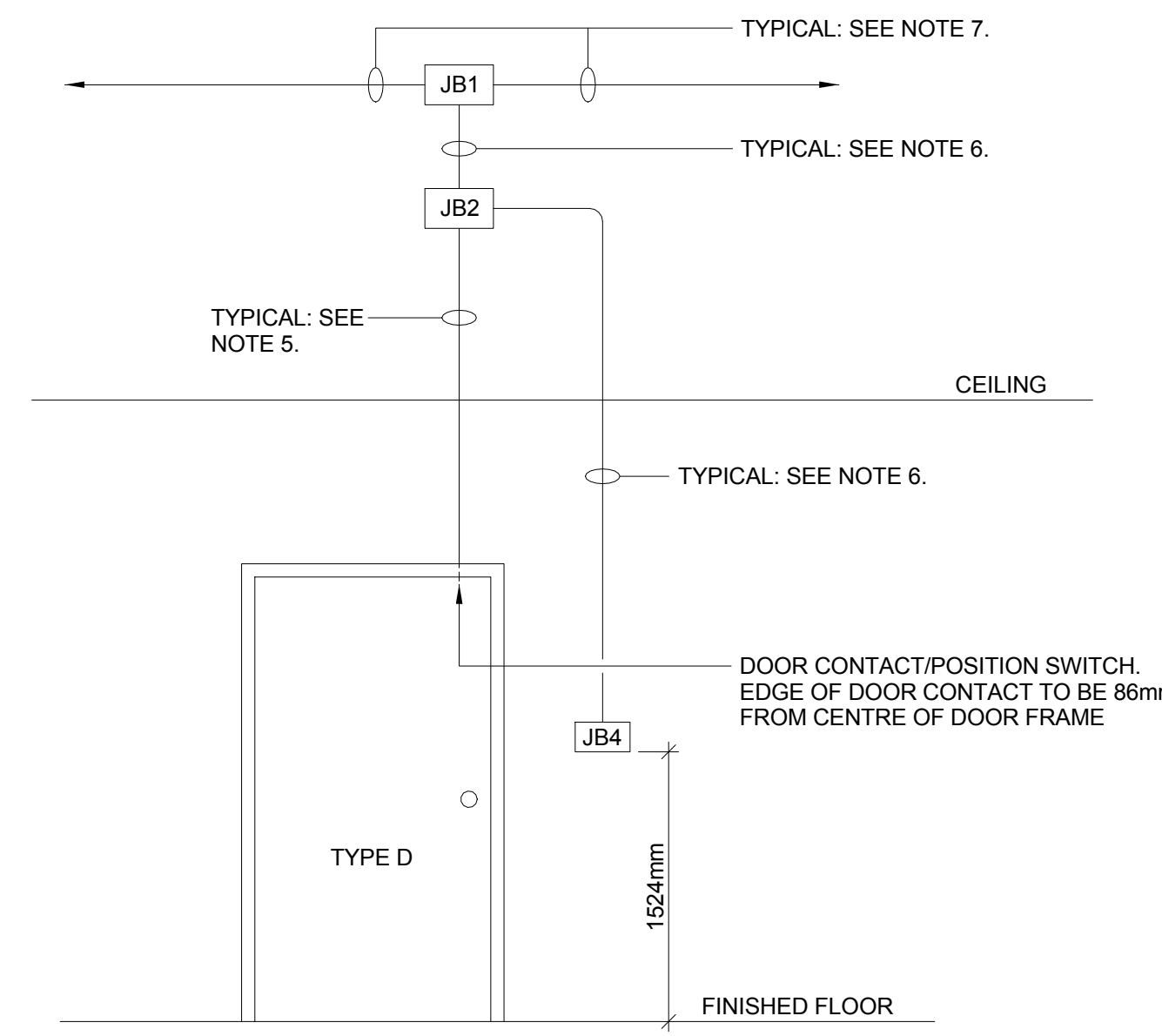
1 DOOR HARDWARE TYPE 'B' ROUGH-IN DETAIL
E604 N.T.S.

JUNCTION BOX LEGEND:

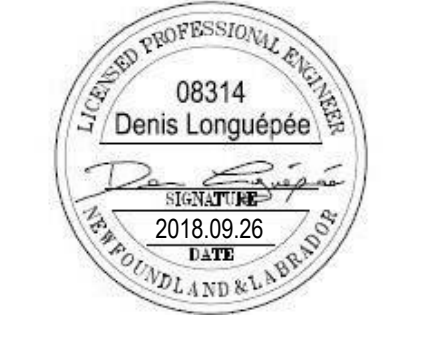
- JB1** JUNCTION BOX 'JB1' (250mm X 250mm X 100mm) TIED TO THE CLOSEST JUNCTION BOX OF THE MAIN CONDUIT RUN, LOCATED ON SECURE SIDE OF DOOR, WITHIN 1200mm RADIUS OF DOOR.
- JB2** JUNCTION BOX 'JB2' (250mm X 250mm X 75mm), LOCATED ON SECURE SIDE OF DOOR.
- JB4** JUNCTION BOX 'JB4' (50 x 100mm) FOR FUTURE KEYPAD BY OWNER, LOCATED ON SECURE SIDE OF DOOR.

NOTES:

1. CONCEALED CONDUIT BELOW CEILING.
2. JUNCTION BOX COVER MUST BE PAINTED PURPLE.
3. JUNCTION BOX ABOVE CEILING MUST BE ACCESSIBLE.
4. DOOR FRAME DRILLED TO ACCEPT CONTACT SWITCH. HOLE TO BE 86mm FROM LOCKSET SIDE, 25mm IN DIAMETER AND 50mm DEEP.
5. 4C #22AWG CABLE IN 21mmØ EMT CONDUIT C/W PULL WIRE BY ELECTRICAL CONTRACTOR. TERMINATION BY OWNER, CABLE AND TERMINATION BY DEPARTMENTAL REPRESENTATIVE.
6. 8C #22 AWG CABLE IN 27mmØ EMT CONDUIT C/W PULL WIRE BY ELECTRICAL CONTRACTOR. CABLE AND TERMINATION BY DEPARTMENTAL REPRESENTATIVE.
7. 8C #22 AWG CABLE IN 53mmØ EMT CONDUIT C/W PULL WIRE BY ELECTRICAL CONTRACTOR. TERMINATION BY DEPARTMENTAL REPRESENTATIVE.
8. WIRING DEVICES SUPPLIED AND INSTALLED BY DEPARTMENTAL REPRESENTATIVE.
9. ALL CONDUIT/BOXES/ROUGH-IN BY ELECTRICAL.
10. ALL 120V WIRING AND CONNECTIONS BY ELECTRICAL.
11. ALL LOW VOLTAGE WIRING BY ELECTRICAL CONTRACTOR.
12. PROVIDE 1.0m COILED CABLE AT EACH END FOR ALL CABLES NOTED, FOR FUTURE TERMINATIONS BY OTHERS.



2 DOOR HARDWARE TYPE 'D' ROUGH-IN DETAIL
E604 N.T.S.



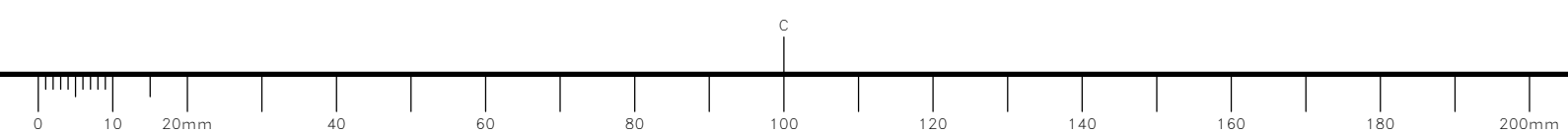
PROVINCE OF NEWFOUNDLAND AND LABRADOR
ENGINEERING PERMIT J0291
STANTEC CONSULTING LTD.
04642
Signature or Member Number (Member-in-Responsible Charge)

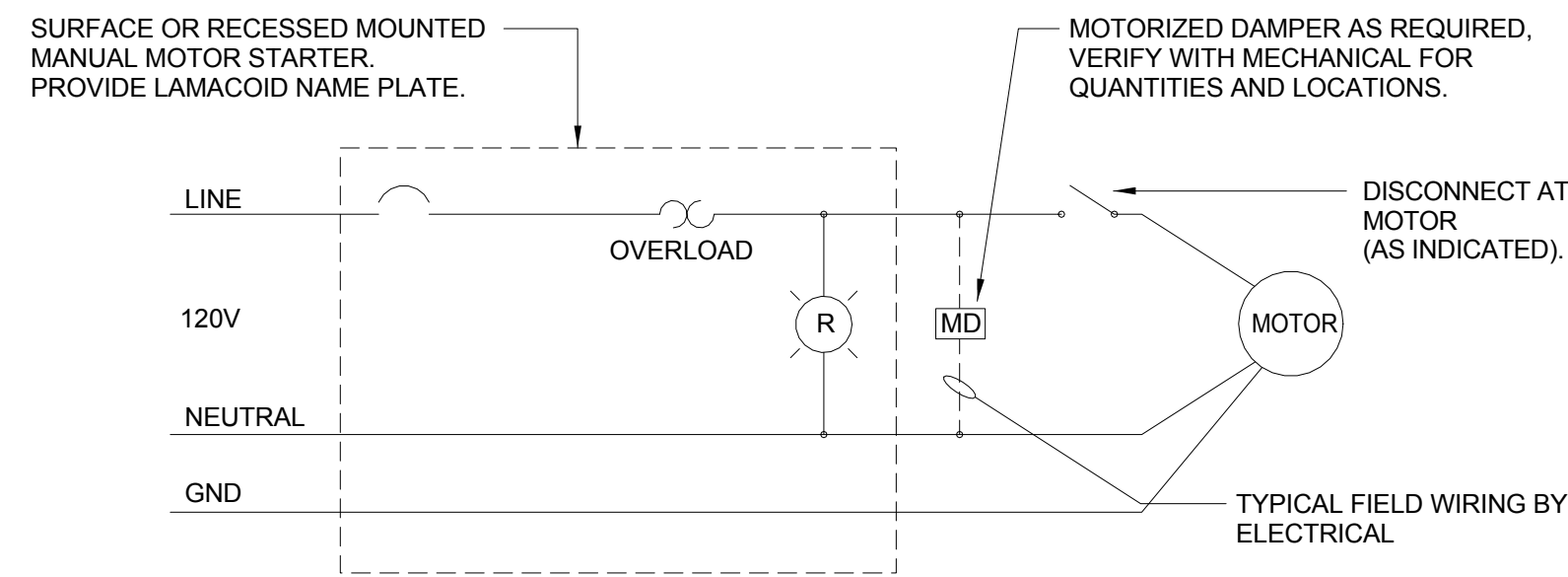
0	ISSUED FOR TENDER	Sept 26/18
revisions		date

project GOCB Bay D'Espoir
project Bay D'Espoir

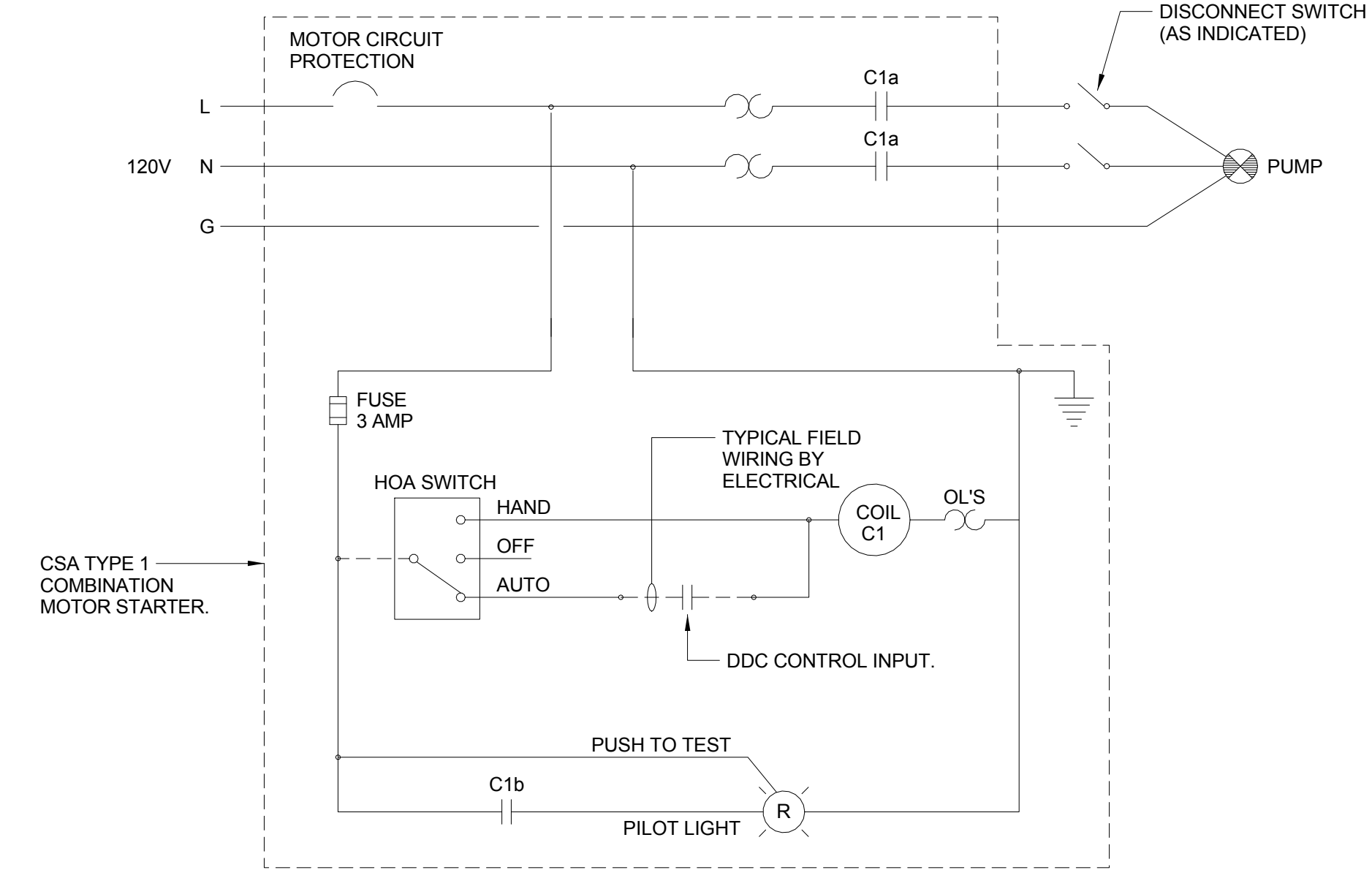
DOOR HARDWARE RISER DIAGRAMS

designed Designer	conçu
date 07/31/18	
drawn Author	dessiné
date 07/31/18	
approved Approver	approuvé
date 07/31/18	
Tender	Soumission
PWGSC Project Manager Administrateur de projets TPSGC	
project number no. du projet	1005744
drawing no. no. du dessin	E604

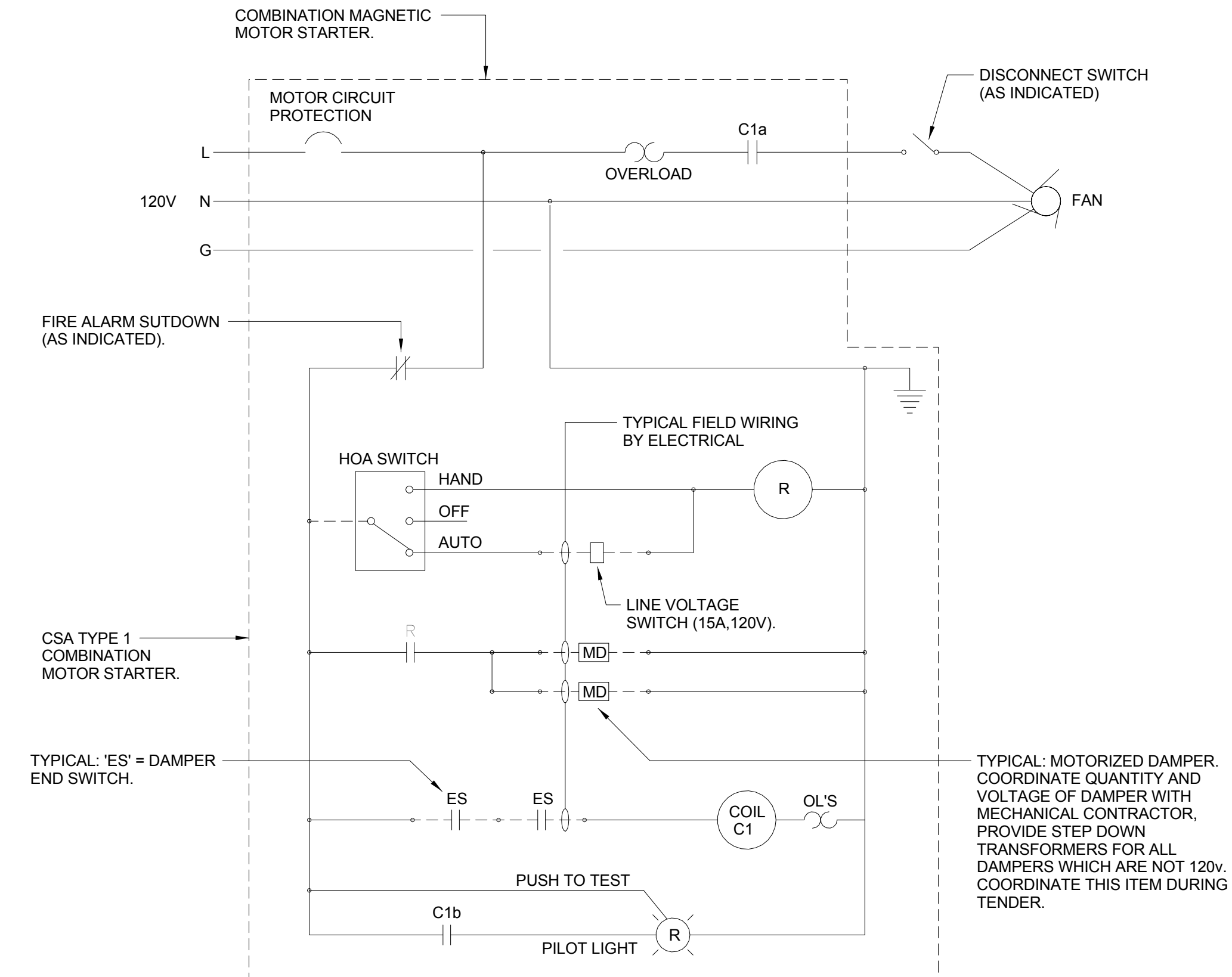




3 120V MOTOR CONTROL DETAIL
E605 N.T.S.



1 CONTROL SCHEMATIC FOR 1PH. PUMPS
E605 N.T.S.



2 CONTROL SCHEMATIC FOR 1PH FAN WITH DAMPER END SWITCHES
E605 N.T.S.



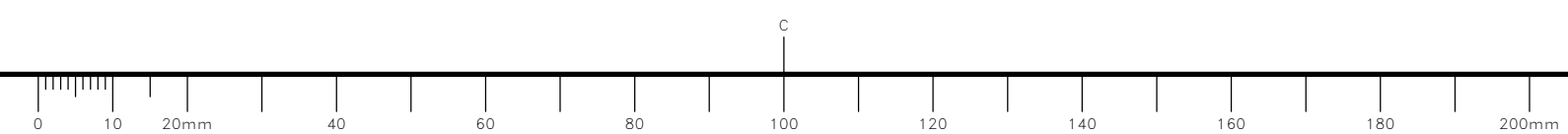
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ENGINEERING PERMIT J0291
STANTEC CONSULTING LTD.
04642
Signature or Member Number (Member-in-Responsible Charge)

0	ISSUED FOR TENDER	Sept 26/18
revisions		date

project project
GOCB Bay D'Espoir
Bay D'Espoir

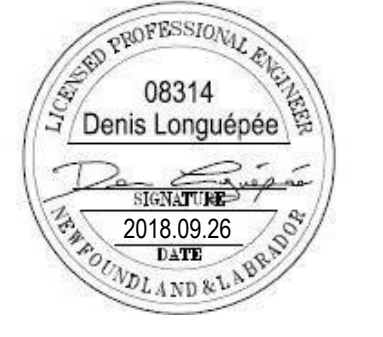
drawing dessin
ELECTRICAL SCHEMATICS

designed DL	conçu
date 08/13/18	
drawn JD	dessiné
date 08/13/18	
approved DL	approuvé
date 08/13/18	
Tender	Soumission
PWGSC Project Manager Administrateur de projets TPSGC	
project number no. du projet	
1005744	
drawing no. no. du dessin	
E605	





		LIGHTING				FIXTURE		SCHEDULE					
TAG		TYPE A	TYPE B	TYPE C	TYPE D	TYPE E	TYPE F	TYPE G	TYPE H	TYPE J	TYPE K	TYPE L	TYPE M
GENERAL DATA	FIXTURE	LED	LED	LED	LED	EXISTING	LED	LED	LED	LED	LED	LED	LED
	STYLE	100mm RECESSED MEDIUM DOWN LIGHT	75mm x 1220mm LENSED STRIPLIGHT	600mm x 600mm RECESSED DOWNLIGHT	600mm x 1220mm RECESSED DOWNLIGHT		600mm x 1220mm RECESSED DOWNLIGHT	600mm x 1220mm RECESSED TROFFER	MANUFACTURER: FAIL-SAFE	230mm x 450mm QUATER SPHERE WALL MOUNTED	17mm x (LENGTH REQ'D) COVE LIGHTING	165mm x 1265mm SURFACE MOUNT	200mm x 20mm DEEP
	OUTPUT	900 lm CRI 80, 3500K, MED. DISTRIBUTION	3400 lm CRI 85, 3500K	2026 lm CRI 85, 3500K	3071 lm CRI 85, 3500K		4097 lm CRI 85, 3500K	4097 lm CRI 85, 3500K	CATALOG NO. FMS-D-12-4-LD4-2LO-35 UNV-8084-EDD-1-L1NL	5225 lm 21 LED LIGHT BAR	32lm, 2600K, LED FESTOON LAMPS	6000lm, 3500K, VAPOURITITE	1200lm, 80CRI
	SHEILDING	MEDIUM REFLECTOR SELF FLANGED, SEMI SPECULAR	SEMI-FROSTED ACRYLIC	INDIRECT REFLECTOR	INDIRECT REFLECTOR		INDIRECT REFLECTOR	ACRYLIC PRISMATIC	125 PRISMATIC ACRYLIC / 125 CLEAR POLYCARBONATE	IP66 LIGHTBARS, BL4 DISTRIBUTION	----	INTERNAL PRISMATIC	POLYMER LENS
LAMP DATA	NO. OF LAMPS PER FIXTURE	CLEAR 1	1	1	1	FIXTURE TO	1	1	2	LED	4 LAMPS/FT	1	1
	LAMP WATTAGE	14	28	20	29	REMAIN, BE	40	36	52	47	2.1W/FT	57	15
	LAMP DESIGNATION	LED	LED	LED	LED	REMOVED OR	LED	LED	LED	LED	LED	LED	
MOUNTING DATA	LOCATION	CEILING	CEILING	CEILING	CEILING	RELOCATED.	CEILING	CEILING	CEILING	EXTERIOR WALL	UNDER CABINET/ BEHIND MIRROR	CEILING	SOFFIT
	METHOD	RECESSED	CHAIN HUNG, ADJUST TO SUIT	RECESSED	RECESSED	SEE REVISED	RECESSED	RECESSED	SURFACE	SURFACE	SURFACE	SURFACE	SURFACE
	MOUNTING HEIGHT	----	2750mm AFF	SEE ARCH.	SEE ARCH.	LIGHTING PLAN	SEE ARCH.	SEE ARCH.	----	SEE BELOW	----	SEE ARCH.	
	CEILING OR WALL FINISH	SEE ARCH.	SEE ARCH.	SEE ARCH.	SEE ARCH.	FOR NEW	SEE ARCH.	SEE ARCH.	SEE ARCH.	SEE ARCH.	MILLWORK	SEE ARCH.	SEE ARCH.
ELECTRICAL CHARACTERISTIC	FIXTURE VOLTAGE	120	120	120	120	FIXTURE TYPES.	120	120	120	120	120V/24VDC	120	120
	BALLAST TYPE	0-10V DIMMING DRIVER	0-10V DIMMING DRIVER	0-10V DIMMING DRIVER	0-10V DIMMING DRIVER	LAYOUTS	0-10V DIMMING DRIVER	0-10V DIMMING DRIVER	0-10V DIMMING DRIVER	LED DRIVER	LED DRIVER	0-10V DIMMING DRIVER	LED DRIVER
	TOTAL FIXTURE WATTAGE	14	28	20	29	AND QUANTITIES	40	36	52	47	REFER TO PANEL SCHEDULES	57	15
	REMARKS		C/W WIRE GUARD AND EYE CHAIN SET.	C/W DRYWALL KIT WHERE REQUIRED.	C/W DRYWALL KIT WHERE REQUIRED.		C/W DRYWALL KIT WHERE REQUIRED.	C/W DRYWALL KIT WHERE REQUIRED.	ALTERNATE: 1. KENALL SDA-4-1/1-2-45L35K-DCC-1-DV-1/G.	EXTERIOR WALL MOUNTED FIXTURE. SEE ARCH. FOR FIXTURE COLOR.	UNDERCABINET LIGHTING TO RUN FULL LENGTH OF CABINETS. EXACT LENGTH TO BE VERIFIED ON SITE.	C/W MOUNTING BRACKETS	TRIM COLOR TO MATCH ARCH SOFFIT.

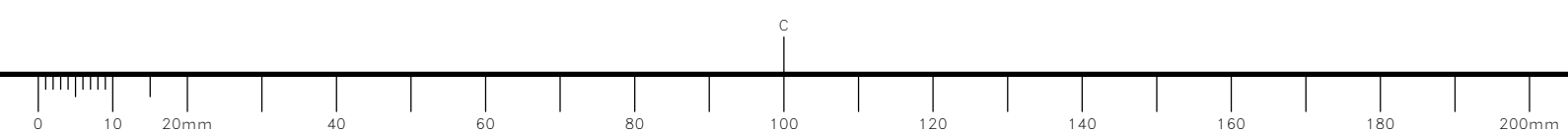


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ELECTRIC HEATING FIXTURE SCHEDULE								
SYMBOL	A	B	B1	C	C1	D	F	G
TYPE	UNIT HEATER	COMMERCIAL SLOPED BASEBOARD	COMMERCIAL SLOPED BASEBOARD	COMMERCIAL SLOPED BASEBOARD	COMMERCIAL SLOPED BASEBOARD	COMMERCIAL SLOPED BASEBOARD	COMMERCIAL SLOPED BASEBOARD	CABINET HEATER
WATTS	2000	500	500	750	750	1000	1500	2000
VOLTS	240V	240V	240V	240V	240V	240V	240V	240V
PHASE	1	1	1	1	1	1	1	1
ACCESSORIES		LVRT		LVRT		LVRT	LVRT	
MOUNTING	CS	WS	WS	WS	WS	WS	WS	WF
REMARKS	CEILING MOUNTED, C/W MOUNTING BRACKET.							

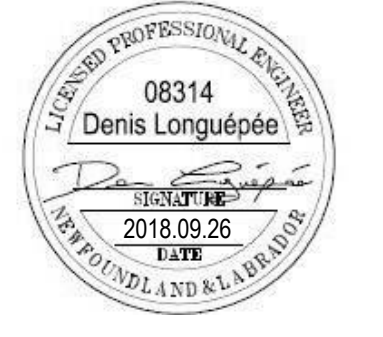
- ACCESSORIES**
- LVR - BUILT-IN LOW VOLTAGE RELAY LESS TRANSFORMER.
 - LVRT - BUILT-IN LOW VOLTAGE RELAY C/W TRANSFORMER.
 - BIT - BUILT-IN THERMOSTAT
 - BITT - BUILT-IN TAMPERPROOF THERMOSTAT
- MOUNTING**
- WS - WALL SURFACE.
 - WF - WALL FLUSH.
 - CS - CEILING SURFACE.
 - CF - CEILING FLUSH.
 - IS - IN SLAB.

0	ISSUED FOR TENDER	Sept 26/18
revisions		date
project	project	
GOCB Bay D'Espoir		
Bay D'Espoir		
drawing	dessin	
LIGHTING AND HEATING FIXTURE SCHEDULES		
designed DL	conçu	
date 06/28/18		
drawn JD	dessiné	
date 06/28/18		
approved Approver	approuvé	
date 06/28/18		
Tender	Soumission	
PWGSC Project Manager	Administrateur de projets TPSGC	
project number	no. du projet	
1005744		
drawing no.	no. du dessin	
E701		





EQUIPMENT NO.	LOCATION	EQUIPMENT	MECHANICAL		EQUIPMENT		MOTOR		STARTER		AND		CONTROL		LIST		
			STOP - START	ON - OFF	CONTROL RELAY	ELECTRO PNEUMATIC RELAY	STARTER	LOCATE AT MOTOR	REMOTE CONTROL	CONTROL TRANSFORMER	FREEZE PROTECTION	TIMER	ELECTRONIC SOFT START				
			1	2	5	9	13	17	21	25	29						
01	ROOM 107	DHWT	M	M	F	9.0	240	1	DPA							SEE PANEL SCHEDULER	01
02	ROOM 107	RE-CIRC PUMP P-1	M	M	F	0.007	120	1	DPA							SEE PANEL SCHEDULER	02
03	ATTIC SPACE	TRAP SEAL PRIMER	M	M	F	0.3	120	1	A							SEE PANEL SCHEDULER	03
04	WATER ENTRY ROOM	WATER ENTRANCE METER	M	M	F	0.2	120	1	A							SEE PANEL SCHEDULER	04
05	ROOM 129	HEAT RECOVERY VENTILATOR HRV-1	M	M	E	0.6	230	1	B							SEE PANEL SCHEDULER	05
06	ROOM 112	HEAT RECOVERY VENTILATOR HRV-2	M	M	E	0.6	230	1	C							SEE PANEL SCHEDULER	06
07	ROOM 133	HEAT RECOVERY VENTILATOR HRV-3	M	M	F	0.6	230	1	C							SEE PANEL SCHEDULER	07
08	ROOM 116	EXHAUST FAN EF-1	M	M	F	1/10	120	1	C							SEE PANEL SCHEDULER	08
09	ROOM 124	EXHAUST FAN EF-2	M	M	F	0.033	120	1	B							SEE PANEL SCHEDULER	09
10	OUT BUILDING	EXHAUST FAN EF-3	M	M	F	0.33	120	1	D							SEE PANEL SCHEDULER	10
11	BUILDING EXTERIOR	CONDENSING UNIT CU-1	M	M	E	7.4	230	1	DPA							SEE PANEL SCHEDULER	11
12	ROOM 110	INDOOR EVAPORATOR EV-1	M	M	E	0.05	230	1	A							SEE PANEL SCHEDULER	12
13	ROOM 129	INDOOR EVAPORATOR EV-2	M	M	E	0.02	230	1	A							SEE PANEL SCHEDULER	13
14	ROOM 122	INDOOR EVAPORATOR EV-3	M	M	E	0.02	230	1	A							SEE PANEL SCHEDULER	14
15	ROOM 135	DDC PANEL	M	M	E	0.25	120	1	A							SEE PANEL SCHEDULER	15
16	ATTIC SPACE	DUCT HEATER DHC-1	M	M	E	7.0	240	1	DPA							SEE PANEL SCHEDULER	16
17	ATTIC SPACE	DUCT HEATER DHC-2	M	M	E	2.5	240	1	DPA							SEE PANEL SCHEDULER	17
18	ATTIC SPACE	DUCT HEATER DHC-3	M	M	E	5.0	240	1	DPA							SEE PANEL SCHEDULER	18
19																SEE PANEL SCHEDULER	19
20																SEE PANEL SCHEDULER	20



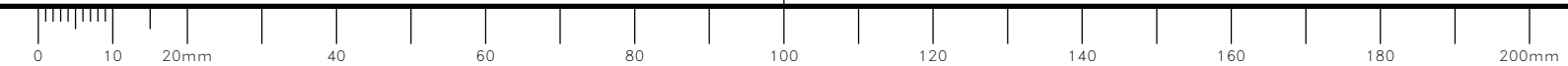
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 ENGINEERING PERMIT J0291
 STANTEC CONSULTING LTD.
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 Signature or Member Number (Member-in-Responsible Charge)

0	ISSUED FOR TENDER	Sept 26/18
revisions		date

project project
GOCB Bay D'Espoir
Bay D'Espoir

drawing dessin
MECHANICAL EQUIPMENT SCHEDULE

designed Designer	conçu
date 07/31/18	
drawn Author	dessiné
date 07/31/18	
approved Approver	approuvé
date 07/31/18	
Tender	Soumission
PWGSC Project Manager Administrateur de projets TPSGC	
project number no. du projet	
1005744	
drawing no. no. du dessin	
E702	





Stantec
 Name: C
 Location: CORR 113
 Supply From:
 Serves:
 Notes:

Volts: 240V
 Phases: 1
 Wires: 3

Mains Type:
 Mains Rating: 100 A
 MCB Rating:
 Lugs:

Type: Lighting and Panel Distribution Panel Boards
 A.I.C. Rating:
 Mounting:
 Enclosure: DO NOT USE

CKT	Circuit Description	Trip	Poles	CB	A	B	CB	Poles	Trip	Circuit Description	CKT
1	HEAT - ROOMS 117, 118, 116, 135	15 A	2	--	1125	1000	--	2	15 A	HEAT - ROOM 134	2
3	--	--	--	--	1125	1000	--	2	15 A	--	4
5	HEAT - ROOMS 105, 104	15 A	2	--	750	1000	--	2	15 A	HEAT - ROOM 101	6
7	--	--	--	--	750	1000	--	2	15 A	--	8
9	HEAT - ROOM 131	15 A	2	--	750	750	--	2	15 A	HEAT - ROOM 103	10
11	--	--	--	--	750	750	--	2	15 A	--	12
13	HEAT - ROOMS 108, 111	15 A	2	--	1125	100	--	1	15 A	EXHAUST FAN EF-1	14
15	--	--	--	--	1125	1162	--	2	15 A	HRV-2	16
17	HRV-3	15 A	2	--	250	1162	--	--	--	--	18
19	--	--	--	--	250	0	--	1	15 A	Spare	20
21	Spare	15 A	1	--	0	0	--	1	15 A	Spare	22
23	Spare	15 A	1	--	0	0	--	1	15 A	Spare	24
25	Spare	15 A	1	--	0	0	--	1	15 A	Spare	26
27	Spare	20 A	1	--	0	0	--	1	20 A	Spare	28
29	--	--	--	--	--	--	--	--	--	--	30
31	--	--	--	--	--	--	--	--	--	--	32
33	--	--	--	--	--	--	--	--	--	--	34
35	--	--	--	--	--	--	--	--	--	--	36
37	--	--	--	--	--	--	--	--	--	--	38
39	--	--	--	--	--	--	--	--	--	--	40
41	--	--	--	--	--	--	--	--	--	--	42
Total Load:					7.76 kVA	7.68 kVA					
Total Amps:					65 A	64 A					
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals							
HVAC	500 VA	100.00%	500 VA	Total Conn. Load: 15438 VA Total Est. Demand: 12728 VA Total Conn.: 64 A Total Est. Demand: 53 A							
Heating	13000 VA	75.00%	9750 VA								
Motor	2423 VA	123.97%	3004 VA								

Stantec
 Name: A
 Location: CORR 113
 Supply From:
 Serves:
 Notes:

Volts: 240V
 Phases: 1
 Wires: 3

Mains Type:
 Mains Rating: 200 A
 MCB Rating:
 Lugs:

Type: Lighting and Panel Distribution Panel Boards
 A.I.C. Rating:
 Mounting:
 Enclosure: DO NOT USE

CKT	Circuit Description	Trip	Poles	CB	A	B	CB	Poles	Trip	Circuit Description	CKT
1	REC - ROOMS 114A, 115, 117, 118	15 A	1	*	800	400	*	1	20 A	REC - ROOM 116	2
3	REC - ROOM 116	20 A	1	*	400	400	*	1	20 A	REC - ROOM 116	4
5	REC - ROOM 116	20 A	1	*	400	800	*	1	15 A	REC - ROOMS 114B, 113, 106, 112	6
7	REC - ROOM 116	15 A	1	*	400	400	*	1	15 A	REC - ROOMS 105, 104,	8
9	REC - ROOMS 106	15 A	1	*	400	400	*	1	20 A	REC - ROOM 107	10
11	REC - ROOM 132	15 A	1	*	600	400	*	1	20 A	REC - ROOM 132	12
13	REC - ROOM 103, FRIDGE	15 A	1	*	200	200	*	1	15 A	REC - WATER METER	14
15	REC - ROOM 103, MICROWAVE	20 A	1	*	400	400	*	1	20 A	REC - ROOM 103, COUNTER	16
17	REC - ROOM 103, COUNTER	20 A	1	*	400	1000	*	1	15 A	REC - ROOM 103	18
19	REC - ROOM 103	15 A	1	*	800	300	*	1	15 A	PROJECTOR SCREEN - ROOM 103	20
21	REC - ROOM 103	15 A	1	*	900	800	*	1	15 A	SYSTEM FURNITURE - ROOM 108	22
23	SYSTEM FURNITURE - ROOM 108	15 A	1	*	1600	600	*	1	15 A	REC - ROOM 111	24
25	REC - ROOMS 108, 109	15 A	1	*	1100	400	*	1	20 A	REC - ROOM 109, COPIER	26
27	REC - ROOM 109, COUNTER	15 A	1	*	600	400	*	1	15 A	REC - EXTERIOR	28
29	REC - ROOM 131	15 A	1	*	900	400	*	1	20 A	REC - ROOM 131	30
31	REC - ROOM 131	20 A	1	*	400	400	*	1	20 A	REC - ROOM 110	32
33	REC - ROOM 110	20 A	1	*	400	400	*	1	20 A	REC - ROOM 110	34
35	REC - ROOM 110	15 A	1	*	400	487	*	1	15 A	LTG -	36
37	LTG - 108, 110, 111, 103, 106, 102, 101, 104	15 A	1	*	581	24	*	1	15 A	EXIT SIGNS	38
39	EMERG. LTG	15 A	1	+	800	600	+	1	15 A	EMERG. LTG	40
41	EMERG. LTG	15 A	1	+	800	400	+	1	15 A	REC - ROOM 133	42
43	FIRE ALARM CONTROL PANEL	15 A	1	+	300	800	+	1	15 A	REC - ROOMS 135, 131B	44
45	REC - ROOM 107	20 A	1	*	400	300	*	1	15 A	TRAP SEAL PRIMER CABINET	46
47	HVAC	15 A	2	*	525	200	*	1	15 A	EXTERIOR LIGHTING	48
49	--	--	--	--	525	300	--	1	15 A	EXISTING EXTERIOR LIGHTING	50
51	DDC PANEL	15 A	1	*	200	300	*	1	15 A	EXISTING EXTERIOR LIGHTING	52
53	DOOR HARDWARE	15 A	1	*	1500	0	*	1	20 A	Spare	54
55	DOOR OPERATOR	15 A	1	*	300	0	*	1	20 A	Spare	56
57	EXTERIOR LIGHTING	15 A	1	*	190	0	*	1	20 A	Spare	58
59	Spare	15 A	1	--	0	0	--	1	15 A	Spare	60
Total Load:					15.32 kVA	13.56 kVA					
Total Amps:					128 A	113 A					
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals							
HVAC	700 VA	100.00%	700 VA	Total Conn. Load: 28873 VA Total Est. Demand: 28961 VA Total Conn.: 120 A Total Est. Demand: 121 A							
Lighting	3633 VA	100.00%	3633 VA								
Motor	350 VA	125.00%	438 VA								
Power	24200 VA	100.00%	24200 VA								



PROVINCE OF NEWFOUNDLAND AND LABRADOR
 ENGINEERING PERMIT J0291
 STANTEC CONSULTING LTD.
 04642
 Signature or Member Number (Member-in-Responsible Charge)

0	ISSUED FOR TENDER	Sept 26/18
revisions		date

project GOCB Bay D'Espoir
 Bay D'Espoir
 drawing dessin

PANEL SCHEDULES

designed Designer	conçu
date 07/28/16	
drawn Author	dessiné
date 07/28/16	
approved Approver	approuvé
date 07/28/16	
Tender	Soumission
PWGSC Project Manager Administrateur de projets TPSGC	
project number no. du projet	1005744
drawing no. no. du dessin	E703

Stantec
 Name: D
 Location: COLD STORAGE 301
 Supply From:
 Serves:
 Notes:

Volts: 240V
 Phases: 1
 Wires: 3

Mains Type:
 Mains Rating: 60 A
 MCB Rating:
 Lugs:

Type: Lighting and Panel Distribution Panel Boards
 A.I.C. Rating:
 Mounting:
 Enclosure: DO NOT USE

CKT	Circuit Description	Trip	Poles	CB	A	B	CB	Poles	Trip	Circuit Description	CKT
1	POWER	15 A	1	--	600	600	--	1	15 A	POWER	2
3	POWER	15 A	1	--	600	250	--	2	20 A	MOTOR	4
5	HEATING	15 A	2	--	750	250	--	2	15 A	HEATING	6
7	--	--	--	--	750	750	--	2	15 A	HEATING	8
9	LIGHTING	15 A	1	*	210	750	*	1	15 A	LIGHTING	10
11	LIGHTING	15 A	1	*	80	200	+	1	15 A	LIGHTING	12
13	EXHAUST FAN EF-3	20 A	1	*	300	300	*	1	15 A	DOOR HARDWARE	14
15	Spare	15 A	1	--	0	0	--	1	15 A	Spare	16
17	Spare	15 A	1	--	0	0	--	1	15 A	Spare	18
19	Spare	20 A	1	--	0	0	--	1	20 A	Spare	20
21	Spare	20 A	1	--	0	0	--	1	20 A	Spare	22
23	--	--	--	--	0	0	--	1	20 A	Spare	24
Total Load:					3.43 kVA	2.50 kVA					
Total Amps:					29 A	21 A					
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals							
Heating	3000 VA	75.00%	2250 VA	Total Conn. Load: 5931 VA Total Est. Demand: 5338 VA Total Conn.: 25 A Total Est. Demand: 22 A							
Lighting	350 VA	100.00%	350 VA								
Motor	500 VA	125.00%	625 VA								
Power	2400 VA	100.00%	2400 VA								

Stantec
 Name: B
 Location: GUARD AREA 125
 Supply From:
 Serves:
 Notes:

Volts: 240V
 Phases: 1
 Wires: 3

Mains Type:
 Mains Rating: 225 A
 MCB Rating:
 Lugs:

Type: Lighting and Panel Distribution Panel Boards
 A.I.C. Rating:
 Mounting:
 Enclosure: DO NOT USE

CKT	Circuit Description	Trip	Poles	CB	A	B	CB	Poles	Trip	Circuit Description	CKT
1	LIGHTING	15 A	1	*	300	300	*	1	15 A	LIGHTING	2
3	LIGHTING - CELLS	15 A	1	*	300	300	*	1	15 A	EMERG. LTG - GUARD ROOM	4
5	REC - ROOM 122	15 A	1	†	600	306	†	1	15 A	EXIT SIGNS	6
7	REC - EMERG. LTG UNIT	15 A	1	*	300	300	*	1	15 A	REC - EXTERIOR	8
9	REC - NEW MECH RM	15 A	1	*	300	200	†	1	15 A	REC - ROOM 122, COUNTER	10
11	REC - SECURE BAY	15 A	1	*	300	300	*	1	15 A	REC - EXHIBITS, COLD STORAGE	12
13	FANS - CELL 120, 121, 122	15 A	1	*	300	200	†	1	15 A	REC - ROOM 122, COUNTER	14
15	DOOR BELL	15 A	1	*	300	300	*	1	15 A	FANS - SECURE EXHIBIT	16
17	EMERG. ALARM - WASHROOM	15 A	1	*	300	300	*	1	15 A	FANS - GUARD WASHROOM	18
19	LTG - 130, 129, 122	15 A	1	†	191	300	*	1	15 A	ALARM - SECURE AREA	20
21	EMERG. LTG	15 A	1	†	600	250	†	2	15 A	HRV-1	22
23	Spare	15 A	1	--	0	250	--	2	--	--	24
25	COINQ2 DETECTOR	15 A	1	+	300	900	+	1	15 A	POWER	26
27	EXISTING CIRCUIT	30 A	2	*	150	400	*	1	20 A	REC - ROOM 129	28
29	--	--	--	--	150	400	--	1	20 A	REC - ROOM 129	30
31	REC - ROOM 129	20 A	1	*	800	400	*	1	20 A	REC - ROOM 129	32
33	REC - ROOM 129	15 A	1	*	400	800	*	1	20 A	REC - ROOM 129	34
35	REC - ROOM 122, COUNTER	20 A	1	*	400	1000	*	2	15 A	HEAT - ROOM 124	36
37	HEAT - ROOM 124	15 A	2	--	1000	1000	--	2	15 A	HEAT - ROOM 124	38
39	--	--	--	--	1000	500	--	2	15 A	HEAT - ROOM 122	40
41	EXHAUST FAN EF-2	15 A	1	*	200	500	*	2	15 A	--	42
Total Load:					9.23 kVA	7.39 kVA					
Total Amps:					77 A	62 A					
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals							
Heating	5000 VA	75.00%	3750 VA	Total Conn. Load: 16606 VA Total Est. Demand: 15614 VA Total Conn.: 69 A Total Est. Demand: 65 A							
Lighting	720 VA	100.00%	720 VA								