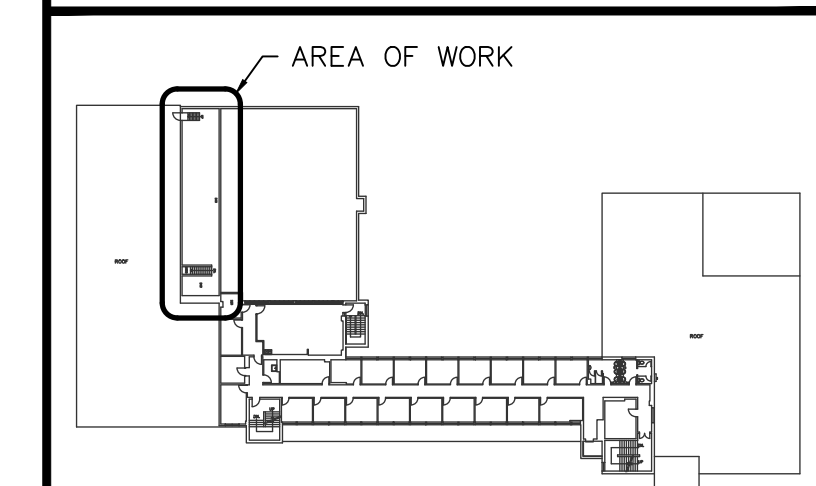
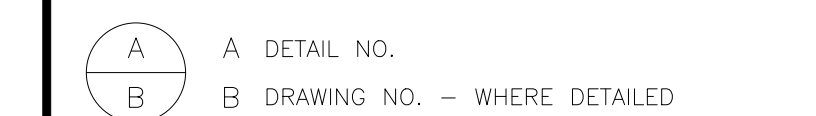


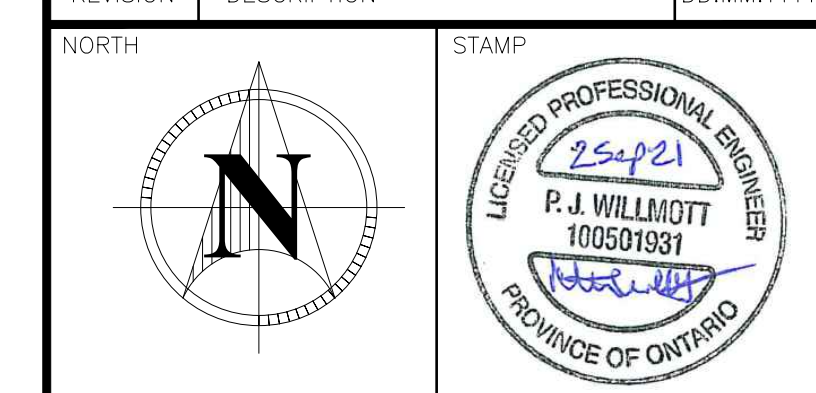
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KEYPLAN

3	ISSUED FOR TENDER	02.09.2021
2	ISSUED FOR 99%	26.08.2021
1	ISSUED FOR 66%	20.07.2021
REVISION	DESCRIPTION	DD.MM.YYYY



PROJECT
Correctional Services
Of Canada
445 Union Street West
Kingston, Ont., K7L 2R8

Correctional Services Canada
Kingston, Ontario

DRAWING TITLE
**Specifications
And Schedule**

DESIGNED BY
P. Willmott

DRAWN BY
M. Rowsell

REVIEWED BY
S. Lane

APPROVED BY
S. Lane

PROJECT DATE
JUNE 2021 (DD/MM/YYYY)

PROJECT #
2152710

DRAWING SCALE
As Shown

DRAWING #
500

SPECIFICATIONS:

GENERAL:

SUPPLY ALL LABOUR, EQUIPMENT AND MATERIALS NECESSARY TO INSTALL COMPLETE AND OPERATIONAL, THE ELECTRICAL SYSTEMS HEREIN AND SHOWN ON THE DRAWINGS.

WHERE THE TERM "PROVIDE" IS USED IT SHALL BE UNDERSTOOD TO INCLUDE LABOUR, MATERIALS AND SERVICES NECESSARY TO SUPPLY AND INSTALL ITEMS OR WORK REFERRED TO.

DRAWINGS AND SPECIFICATIONS:

THESE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO PROVIDE FOR A COMPLETE AND OPERATIONAL ELECTRICAL INSTALLATION. THE RESPONSIBILITY FOR SUPPLYING AND INSTALLING MATERIALS ESSENTIAL TO ACHIEVE THIS SHALL BE PART OF THIS SECTION, EXCEPT WHERE SPECIFICALLY NOTED THAT SUCH OR MATERIALS IS NOT INCLUDED.

CODES AND STANDARDS:

ALL WORK SHALL CONFORM TO ALL APPLICABLE CODES INCLUDING BUT NOT LIMITED TO THE ONTARIO BUILDING CODE CURRENT REVISION (REFERRED TO AS OBC HEREAFTER) AND THE CURRENT VERSION OF THE ONTARIO ELECTRICAL SAFETY CODE INCLUDING ALL AMENDMENTS AND RELEVANT BULLETINS (REFERRED TO AS OESC HEREAFTER).

PERMITS, FEES AND INSPECTION:

THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PAYING FOR ELECTRICAL INSPECTION CERTIFICATE FOR WORK. THE ELECTRICAL CONTRACTOR SHALL INFORM THE GREER GALLOWAY GROUP (GGG HEREAFTER) OF ANY DEFICIENCIES FOUND BY THE ELECTRICAL SAFETY AUTHORITY. A COPY OF THE ELECTRICAL INSPECTION CERTIFICATE SHALL BE FORWARDED TO THE GREER GALLOWAY GROUP UPON COMPLETION OF THE WORK.

MATERIALS:

ALL MATERIALS SUPPLIED SHALL BE NEW AND SHALL CONFORM IN ALL RESPECTS TO THE DRAWINGS AND SPECIFICATIONS. SUPPLIED MATERIAL SHALL ALSO BE CSA OR ULC APPROVED.

GUARANTEES:

GUARANTEE ALL WORK FOR ONE YEAR FOLLOWING THE DAY OF FINAL ACCEPTANCE BY THE OWNER. THIS GUARANTEE SHALL INCLUDE WORK AND MATERIALS FOR ALL PROBLEMS RESULTING FROM IMPROPER INSTALLATION OR EQUIPMENT FAILURE OR DEFECTS.

PROTECTION AND REPAIR:

TAKE ALL NECESSARY PROVISIONS TO ENSURE THE SAFETY OF OCCUPANTS AND PERSONNEL. PROTECT FINISHED AND UNFINISHED WORK FROM DAMAGE RESULTING FROM ON-GOING WORK. PROVIDE FULL DUST PROTECTION AND KEEP EQUIPMENT DRY AND CLEAN AT ALL TIMES. PROTECT EXISTING SERVICES NOT INCLUDED IN SCOPE OF WORK. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING, AT NO COST TO THE OWNER, ANY DAMAGES TO SURFACES AND FINISHES CAUSED DIRECTLY OR INDIRECTLY AS A RESULT OF HIS WORK.

CUTTING AND PATCHING:

GET WRITTEN APPROVAL FROM THE OWNER FOR ANY REQUIRED CUTTING. COORDINATE WITH GENERAL CONTRACTOR TO PERFORM ALL CUTTING/CORE DRILLING AND PATCHING FOR ELECTRICAL INSTALLATIONS.

CLEAN UP:

AT THE END OF EACH DAY, PERFORM REGULAR CLEAN UP TASKS AND REMOVE ALL TOOLS, EQUIPMENT, ETC. TO ENSURE CLEANLINESS OF PREMISES.

EQUIPMENT DISPOSAL AND DECOMMISSIONING:

THE CONTRACTOR WILL TAKE ALL NECESSARY STEPS TO HAVE EQUIPMENT THAT WAS REMOVED OR REPLACED AS PART OF ANY WORK DISPOSED OF OR DECOMMISSIONED IN ACCORDANCE WITH APPROPRIATE DISPOSAL OR DECOMMISSIONING PROCESSES, APPLICABLE LAWS, AND IN ACCORDANCE WITH COMMERCIALY REASONABLE ENVIRONMENTAL PRACTICES.

THE CONTRACTOR MUST SUBMIT WRITTEN PROOF OR EVIDENCE OR ACKNOWLEDGEMENT THAT THE DISPOSAL OF ALL MATERIALS WAS DONE IN ACCORDANCE WITH ALL CURRENT DISPOSAL REQUIREMENTS.

ACCEPTABLE DOCUMENTS:

- INVOICES OR DISPOSAL CERTIFICATES FROM THE DISPOSAL FACILITY
- THIS DOCUMENTATION MUST BE ON THE DISPOSAL FACILITY'S LETTERHEAD, INVOICE, OR CERTIFICATE.

MINIMUM INFORMATION REQUIRED:

- BUILDING NAME AND ADDRESS
- EQUIPMENT DESCRIPTION (LAMPS, MOTORS, COOLING EQUIPMENT, ETC.)
- EQUIPMENT QUANTITIES
- DISPOSAL FACILITY NAME

THE CONTRACTOR MUST SUBMIT A COMPLETED RETROFIT PROGRAM DISPOSAL FORM IF THE DISPOSAL INVOICES OR CERTIFICATES DO NOT PROVIDE ENOUGH INFORMATION TO VERIFY THE EQUIPMENT DETAILS AS REPORTED IN THE INCENTIVE APPLICATION. REFER TO ARCHITECTURAL SPECIFICATION MANUAL APPENDIX A FOR AN EXAMPLE OF A DISPOSAL FORM.

SHOP DRAWINGS:

PRIOR TO DELIVERY OF ANY PRODUCTS TO THE SITE AND ADEQUATELY IN ADVANCE TO PERMIT SUFFICIENT TIME FOR CHECKING, SUBMIT SHOP DRAWINGS FOR REVIEW OF REQUIREMENTS AS SPECIFIED IN THIS DIVISION.

SHOP DRAWINGS SHALL BE SUBMITTED FOR THE FOLLOWING LIST OF MATERIAL. GGG RESERVES THE RIGHT TO REQUIRE SUBMISSION OF SHOP DRAWINGS FOR ADDITIONAL MATERIAL NOT LISTED BELOW. ONLY SHOP DRAWINGS LISTED OR REQUESTED WILL BE REVIEWED BY GGG.

- PANELS AND PANEL BOARDS
- CIRCUIT BREAKERS AND FUSES
- DISCONNECTS, SWITCHES

MANUFACTURE OF PRODUCTS SHALL CONFORM TO REVIEWED SHOP DRAWINGS.

KEEP ONE COMPLETE SET OF REVIEWED SHOP DRAWINGS AT THE JOB SITE DURING CONSTRUCTION.

CLOSE OUT DOCUMENTATION:

SUBMIT ONE COPY OF THE ELECTRICAL INSPECTION CERTIFICATE TO THE GREER GALLOWAY GROUP

SUBMIT THREE (3) COPIES OF ELECTRICAL OPERATING AND MAINTENANCE MANUALS AT CONCLUSION OF WORK. MANUALS SHALL BE ASSEMBLED IN HARD COVERED 3-RING BINDERS AND SHALL INCLUDE THE FOLLOWING:

- STATEMENT OF WARRANTY
 - REVIEWED SHOP DRAWINGS
 - INSTALLATION AND MAINTENANCE INFORMATION FOR ALL EQUIPMENT, INCLUDING NAMES AND ADDRESSES OF NEAREST SUPPLIERS.
 - ELECTRICAL INSPECTION CERTIFICATE
- PROVIDE TWO (2) SETS OF DRAWINGS PRINTED ON WHITE PAPER, CAREFULLY MARKED UP IN RED PEN TO SHOW ALL ACTUAL DEVIATIONS FROM WORKING DRAWINGS. INDICATE ACTUAL LOCATION AND CIRCUIT NUMBERS FOR ALL DEVICES.

SITE EXAMINATION:

EXAMINE THE SITE OF WORK AND BECOME FAMILIAR WITH ALL STRUCTURES AFFECTING THIS WORK. REPORT TO THE ENGINEER ANY UNSATISFACTORY CONDITIONS WHICH MAY AFFECT PROPER COMPLETION OF THIS WORK. NO ADDITIONAL COMPENSATION WILL BE GIVEN FOR EXTRA WORK DUE TO EXISTING CONDITIONS, WHICH SUCH EXAMINATION WOULD REVEAL.

WIRING METHODS:

ALL WIRING SHALL BE COPPER UNLESS INDICATED OTHERWISE. MINIMUM CONDUCTOR SIZE SHALL BE #12 AWG. TYPE AC-90 SHALL BE USED FOR RUN-OUTS TO FIXTURES AND CONCEALED IN WALLS. WHERE USED IN WALLS THE MAXIMUM HORIZONTAL LENGTH SHALL BE 6M. TYPE TECK-90 FLEXIBLE ARMoured ABLE TO CSA NO. 131. TYPE R90 SINGLE CONDUCTOR TO CSA 22.2 NO.38. PROVIDE SEPARATE CODE SIZED INSULATED GROUND CONDUCTOR FOR CIRCUITS RUN IN CONDUIT BRANCH CIRCUIT WIRE SIZES INDICATED ON ANY EQUIPMENT SCHEDULES ARE RATED ON 90°C. WHERE EQUIPMENT IS MARKED WITH A MAXIMUM CONDUCTOR TERMINATION TEMPERATURE, REVISE WIRE SIZE AS PER 4-006 OF OESC. WIRING PENETRATING ANY HORIZONTAL OR VERTICAL ASSEMBLY REQUIRED TO HAVE A FIRE-RESISTANCE RATING SHALL BE IN ACCORDANCE WITH THE LOCAL BUILDING CODE. CONDUITS OR CABLES SHALL BE TIGHTLY FITTED AND FIRE STOPPED WHERE NECESSARY TO MAINTAIN FIRE RATING.

WIRING DEVICES:

RECEPTACLES SHALL BE COMMERCIAL GRADE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE RECEPTACLE HEIGHT WITH ALL MILLWORK. REFER TO ARCHITECTURAL DRAWINGS FOR MILLWORK LOCATIONS AND DETAILS. SWITCHES AND THERMOSTATS SHALL BE MOUNTED 1200MM ABOVE FINISHED FLOOR

MANUFACTURER		TYPE	
BREAKER TYPE	BOLT ON	FAULT RATING	MATCH EXISTING KAIC RATING
PANEL ID	LP-A	LOCATION	
208 V 3 PH 4 W 100 A MAIN BUS NO A MAIN BREAKER			
DESCRIPTION	BKR A	CCT NO.	DESCRIPTION
		1	2
		3	4
		5	6
		7	8
		9	10
		11	12
BOILER #1	20	13	14 20 BOILER #2
CONTROLS	15	15	16 15 SPARE
UNUSED		17	18 UNUSED
UNUSED		19	20 UNUSED
		21	22
		23	24

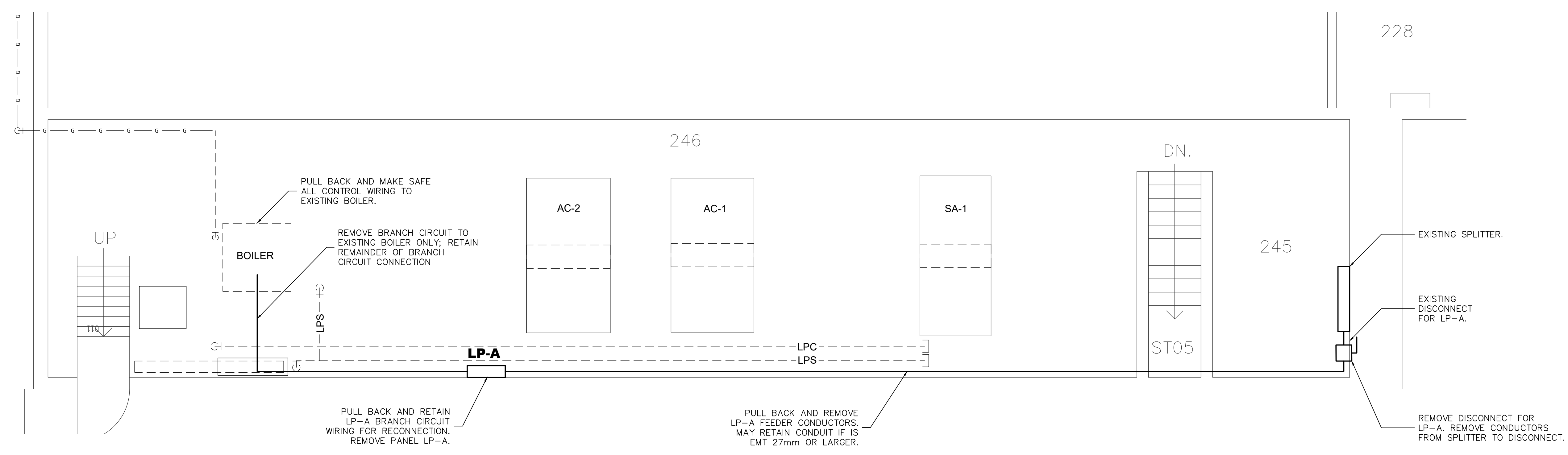
RECONNECT EXISTING LP-A CIRCUITS TO NEW PANEL

PARTIAL PANEL SCHEDULE

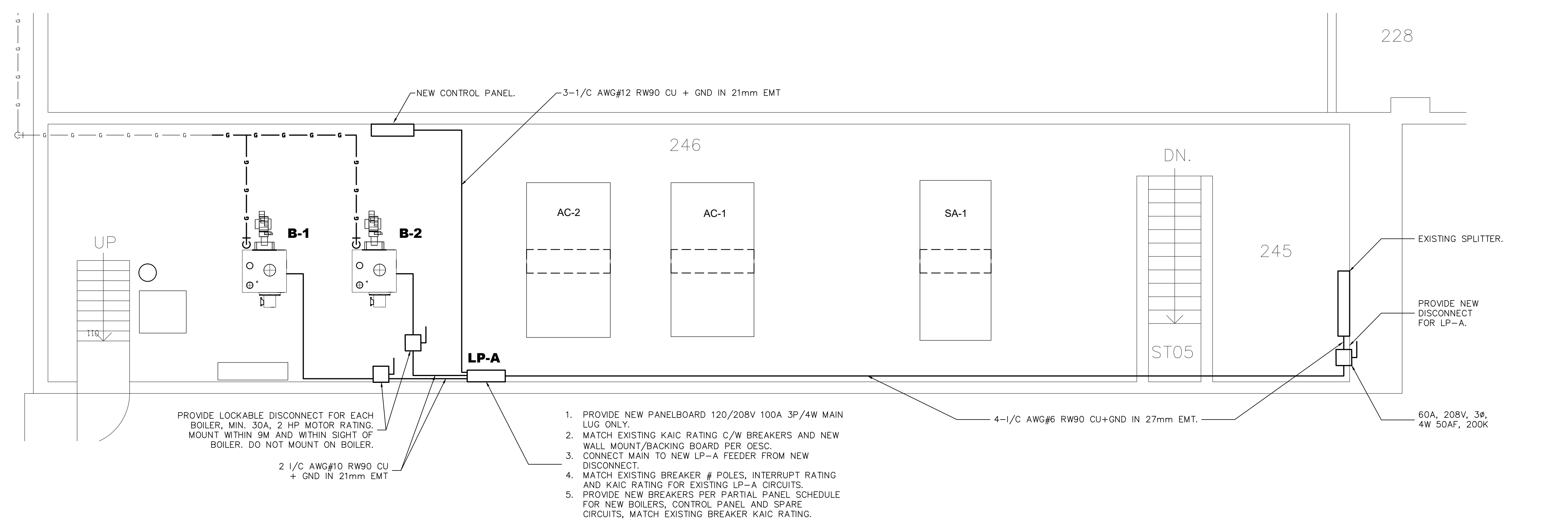
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A A DETAIL NO.
B B DRAWING NO. - WHERE DETAILED



PARTIAL FLOOR PLAN - MECHANICAL ROOM (DEMO)
SCALE: 1:40



PARTIAL FLOOR PLAN - MECHANICAL ROOM (NEW)
SCALE: 1:40

REVISION	DESCRIPTION	DD.MM.YYYY
3	ISSUED FOR TENDER	02.09.2021
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NORTH

STAMP

PROJECT
Correctional Services
Of Canada
445 Union Street West
Kingston, Ont., K7L 2R8

Correctional Services Canada
Kingston, Ontario

DRAWING TITLE
Electrical
Boiler Replacement
Demo And New

DESIGNED BY
P. Willmott

DRAWN BY
M. Rowsell

REVIEWED BY
S. Lane

APPROVED BY
S. Lane

PROJECT DATE
JUNE 2021 (DD/MM/YYYY)

PROJECT # 2152710 DRAWING SCALE As Shown

DRAWING # 501

CAD FILE: P:\Kingston Project\2000 - Building Services\2152710 - CSC - Headquarters Boiler\Drawings\2152710-ELEC-1C.dwg