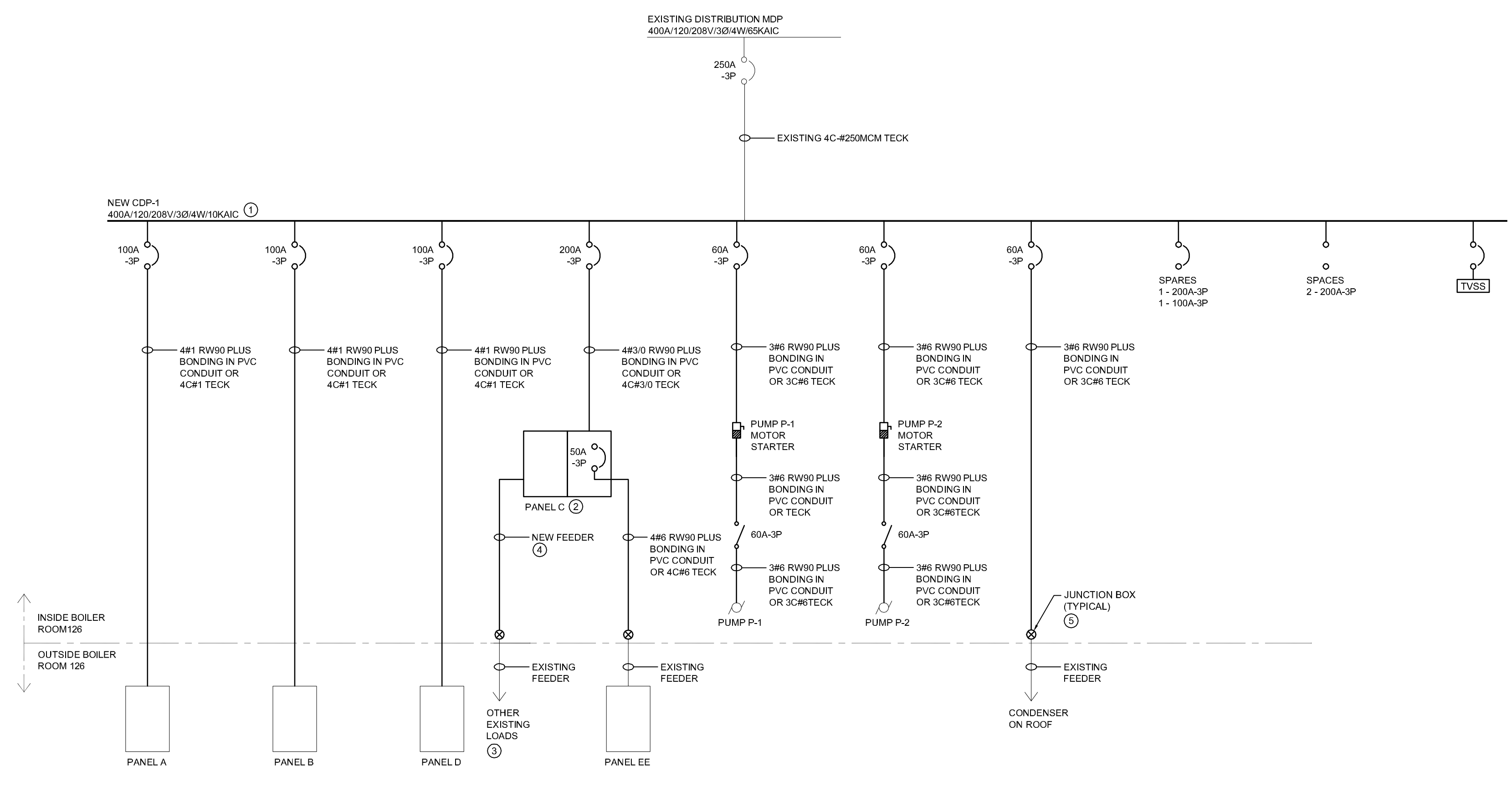


1 BOILER ROOM ELECTRICAL LAYOUT - NEW CONSTRUCTION
 SCALE: NTS



2 PARTIAL SINGLE LINE DIAGRAM - NEW CONSTRUCTION
 SCALE: NTS

GENERAL NOTES

- A. ALL NEW WIRING AND EQUIPMENT IN THIS ROOM TO BE CORROSION RESISTANT. ACCEPTABLE WIRING TYPE: TECK90 CW LIQUID TIGHT CONNECTORS OR WIRE IN PVC CONDUIT.
- B. CONFIRM LOADS AND WIRE SIZES PRIOR TO START OF WORK. SUBMIT REVISED MOTOR SCHEDULE AND PANEL SCHEDULE WITH ACTUAL LOAD SIZES AND MOTOR STARTER AND PANEL SHOP DRAWINGS TO CONTRACT ADMINISTRATOR FOR REVIEW.
- C. PROVIDE A PROTECTIVE COORDINATION, SHORT CIRCUIT, AND ARC FLASH STUDY OF ALL EQUIPMENT SPECIFIED HEREIN AND SUBMIT FOR REVIEW.
- D. INCLUDE COPY OF THE CERTIFICATE OF INSPECTION AND OCCUPANCY PERMIT/CERTIFICATION LETTERS IN THE O&M MANUAL.

KEY NOTES

- 1. PROVIDE NEW CDP AT APPROXIMATE LOCATION SHOWN.
- 2. PROVIDE NEW PANELBOARD. PROVIDE THE REQUIRED QUANTITY AND SIZE OF BREAKERS AS NOTED ON PANEL SCHEDULE.
- 3. PROVIDE THE REQUIRED ELECTRICAL DEVICES AT THIS LOCATION SUCH AS MOTOR STARTER, POWER SUPPLY, SWITCH, ETC. REQUIRED TO FEED EXISTING LOAD. REFER TO MOTOR SCHEDULE.
- 4. NEW WIRE AND BREAKER SIZE TO MATCH EXISTING UNLESS NOTED OTHERWISE. REPORT ANY DISCREPANCIES TO CONTRACT ADMINISTRATOR BEFORE START OF WORK.
- 5. PROVIDE JUNCTION BOX ON CEILING OR WALL TO SPLICE NEW CIRCUITS TO EXISTING THAT ARE LEAVING BOILER ROOM.
- 6. EXIT LIGHT TO MATCH EXISTING.
- 7. PROVIDE PLYWOOD BACKBOARD ALONG THIS WALL. AT LOCATION OF NEW DISTRIBUTION EQUIPMENT. PAINTED WITH FIRE RETARDANT PAINT.
- 8. FIRE STOP ALL EXISTING AND NEW PENETRATIONS THROUGH WALLS AND CEILING IN THIS ROOM.
- 9. WIRING ALONG NORTH AND WEST WALL TO BE WIRE IN PVC CONDUIT.
- 10. TO BE RENAMED FROM P-2 TO P-4.
- 11. REPLACE WIRING BACK TO PANEL.
- 12. OPEN NUMBER.
- 13. PROVIDE HAWKEYE 708 CURRENT SWITCH COMPLETE WITH ON/OFF STATUS LED FOR MONITORING OF LOADS AS FOLLOWS:
 - POOL SUPPLY AND RETURN FANS (F-3 AND F-5) - MONITOR OPERATION AND CONTROL
 - MAIN POOL PUMP (P-1) - ONLY MONITOR OPERATION
 - DOMESTIC HOT WATER RECIRCULATION PUMP (P-7) - ONLY MONITOR OPERATION
 - DOMESTIC HOT WATER TANK PUMP (P-3) - ONLY MONITOR OPERATION
- 14. PROVIDE BATTERY BANK W/ DUAL HEAD WITH THE FOLLOWING FEATURES:
 - RATED FOR 120VAC INPUT AND OUTPUT AS INDICATED FOR 30 MINUTES MINIMUM. CW MOUNTING SHELF.
 - UNIT SHALL HAVE TEST BUTTON, POWER ON INDICATOR.
 - REMOTE HEADS SHALL BE LED. RATED FOR 5 WATT WITH SAME VOLTAGE AS UNIT. NUMBER OF LAMPS PER HEAD SHALL BE AS INDICATED ON DRAWING.
 - BATTERIES SHALL BE MAINTENANCE FREE FOR A PERIOD OF 10 YEARS.
 - STANDARD OF ACCEPTANCE SHALL BE AS FOLLOWS: LUMACELL, EMERGI-LITE AND DUALITE

6		
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0	ISSUED FOR BID SUBMISSION	SB 03/08/2017
NO.	Description	BY DDMMYY

ENGINEERS GEOSCIENTISTS MANITOBA
Certificate of Authorization SMS Engineering Ltd. No. 166

PROVINCE OF MANITOBA
 S. BLAZEVSKI
 AUG. 3, 2017
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SMS ENGINEERING

Project Title
ELECTRICAL DISTRIBUTION UPGRADE
MARGARET GRANT POOL
 685 DALHOUSIE DR, WPG MANITOBA

Drawing Title
ELECTRICAL - NEW CONSTRUCTION

Drawn By	EBB	Checked By	EBB	Approved By	SB
Scale	AS SHOWN	Date	MAY 2017	Project No.	17-187-01
Revision Number	0	Drawing Number	E2-R0	Sheet Order	2 OF 2