



P-5027
2015-01-14

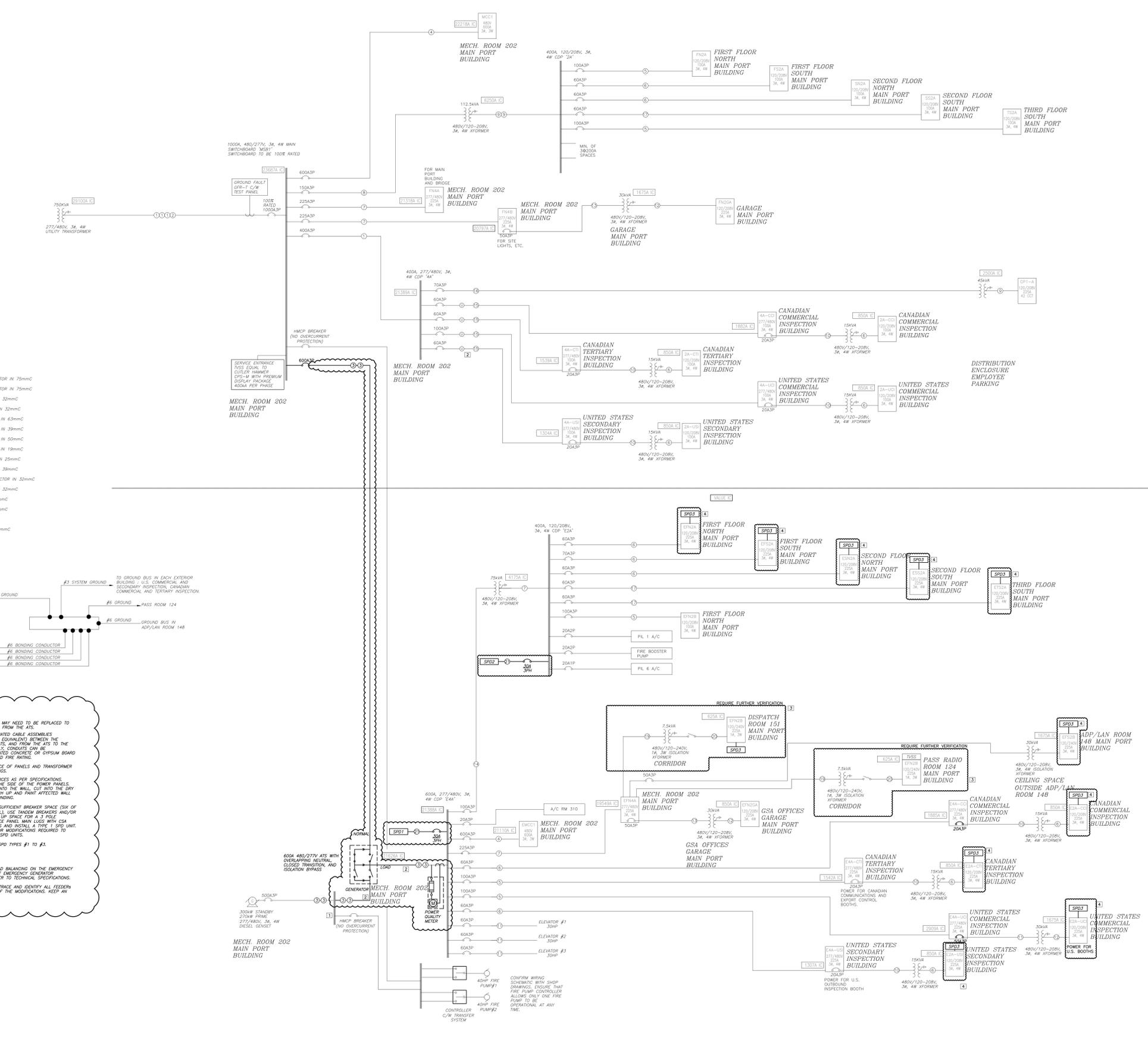
detail symbol	A.	detail number
	B.	cross reference to drawing where detail taken or shown.
	C.	drawing description

No.	Date	Revision	By	App.
5.	14/01/15	ISSUED FOR TENDER	BD	MA
4.	03/09/14	ISSUED FOR TENDER	JK	MA
3.	30/05/14	ISSUED FOR CLIENT REVIEW	JK	MA
2.	04/25/14	ISSUED FOR REVIEW	JK	MA
1.	03/02/14	ISSUED FOR PRELIMINARY REVIEW	JT	MA

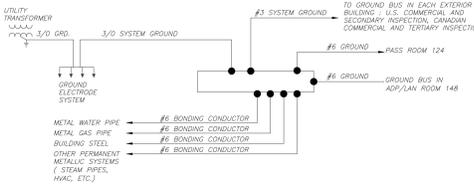
Project: COULTS ELECTRICAL SYSTEM UPGRADE R.058241.002

Drawing: SINGLE LINE DIAGRAM

Designed	MA	Project No.	140101	Scale	N.T.S.
Drawn	AW	Date	2014-04-21	Plot Scale	1:1
Checked	MA	DWG. No.	E3.01	Rev.	5
Approved	MA				



- LEGEND:**
- ① 48500CM IN 100mmC
 - ② SHARE 100mmC
 - ③ 48200CM+1#4 BONDING CONDUCTOR IN 75mmC
 - ④ 3#500CM+1#3 BONDING CONDUCTOR IN 75mmC
 - ⑤ 4#3-1#8 BONDING CONDUCTOR IN 32mmC
 - ⑥ 4#4-1#6 BONDING CONDUCTOR IN 63mmC
 - ⑦ 3#1-1#6 BONDING CONDUCTOR IN 39mmC
 - ⑧ 4#2-1#6 BONDING CONDUCTOR IN 50mmC
 - ⑨ 3#1-2-1#12 BONDING CONDUCTOR IN 19mmC
 - ⑩ 3#6-1#10 BONDING CONDUCTOR IN 32mmC
 - ⑪ 4#2-1#6 BONDING CONDUCTOR IN 32mmC
 - ⑫ 3#3-1#8 BONDING CONDUCTOR IN 32mmC
 - ⑬ 4#6-1#8 BONDING CONDUCTOR IN 50mmC
 - ⑭ 3#3-1#8 BONDING CONDUCTOR IN 32mmC
 - ⑮ 4#4-1#10 BONDING IN 32mmC
 - ⑯ 3#1-1#8 BONDING CONDUCTOR IN 19mmC
 - ⑰ 3#6-1#10 BONDING IN 19mmC
 - ⑱ 4#1-1#10 BONDING IN 19mmC



- KEY NOTES:**
- EXISTING LUGS AT THE SPLITTER MAY NEED TO BE REPLACED TO ACCOMMODATE THE NEW CABLES FROM THE ATS.
 - CONTRACTOR TO PROVIDE FIRE RATED CABLE ASSEMBLIES (EOL-STR) RATED IN CABLE OR EQUIVALENT BETWEEN THE GENERATOR SPLITTER AND THE ATS, AND FROM THE ATS TO THE EMERGENCY PANELS. ALTERNATIVELY, CONDUIT CAN BE ENCASED IN 1" MIN FIRE RATED CONCRETE OR GYPSUM BOARD STRUCTURE TO ACHIEVE REQUIRED FIRE RATING.
 - CONTRACTOR TO VERIFY EXISTENCE OF PANELS AND TRANSFORMER AND MARK ON AS-BUILT DRAWINGS.
 - PROVIDE SURGE PROTECTIVE DEVICES AS PER SPECIFICATIONS. APPLIE-MOUNT SPD UNITS TO THE SIDE OF THE POWER PANELS. WHERE PANELS ARE RECESSIVE INTO THE WALL, CUT INTO THE DRY WALL TO MOUNT SPD UNIT, PATCH UP AND PAINT AFFECTED WALL AREA NEARLY TO MATCH SURROUNDING.
- IN PANELS THAT DO NOT HAVE SUFFICIENT BREAKER SPACE (SIX OF THE PANELS APPEAR TO BE FULL), USE TANDUM BREAKERS AND/OR RE-ARRANGE CIRCUITS TO FIT UP SPACE FOR A 1 POLE BREAKER. ALTERNATIVELY, REPLACE PANEL MAIN LUGS WITH CSA APPROVED DOUBLE BARREL LUGS AND INSTALL A TYPE 1 SPD UNIT. CONTRACTOR TO CARRY COST FOR MODIFICATIONS REQUIRED TO PANELS IN ORDER TO RETROFIT SPD UNITS.**
- REFER TO SPECIFICATIONS FOR SPD TYPES #1 TO #3.

- GENERAL NOTES:**
- CONTRACTOR TO CARRY OUT LOAD BALANCING ON THE EMERGENCY POWER SYSTEM TO ENSURE THAT EMERGENCY GENERATOR UNBALANCE IS WITHIN 10%. REFER TO TECHNICAL SPECIFICATIONS.
 - ELECTRICAL CONTRACTOR IS TO TRACE AND BENCH ALL FEEDERS AND CIRCUITS THAT ARE PART OF THE MODIFICATIONS. KEEP AN UPDATED AS-BUILT DRAWINGS.

1 SINGLE LINE DIAGRAM
E3.01 SCALE N.T.S.