

NOTES:

1. ALL CONTROL WIRING TO BE #14 + 1 #14 GND IN 16mm C UNLESS NOTED OTHERWISE.
2. SIGNAL WIRING FOR ANALOGS TO BE #18AWG SHIELDED TWISTED PAIR IN 16mm C SHIELD TO BE CONNECTED AT CONTROL PANEL END ONLY.
3. SPLICING OF WIRES IS NOT PERMITTED. GROUPING OF CONDUCTORS IS PERMITTED AS LONG AS THEY ARE SIMILAR VOLTAGES. CONDUIT SIZES TO BE ADJUSTED TO MEET CEC LATEST EDITION.
4. ALL WIRING IN CLASS 1 DIVISION 1 AREA TO BE AS PER CEC LATEST EDITION. INSTALL EYS FITTINGS AND SEALING COMPOUND WHERE REQUIRED. INSTALL SEALING COMPOUND AFTER FINAL COMMISSIONING.



3	ISSUED FOR TENDER	06/17 2022
2	ISSUED FOR RS4 99% SUBMISSION	10/30 2020
1	ISSUED FOR RS4 66% SUBMISSION	02-28 2020
0	ISSUED FOR RS3 SUBMISSION	08-17 2018

revisions	date
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project	projet
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SEWAGE TREATMENT
UPGRADES
SPRINGHILL INSTITUTION
SPRINGHILL, NS

ELECTRICAL
I/O WIRING

designed EH conçu

date 2022-06-17

drawn GS dessiné

date 2022-06-17

approved DD approuvé

date 2022-06-17

Tender Soumission

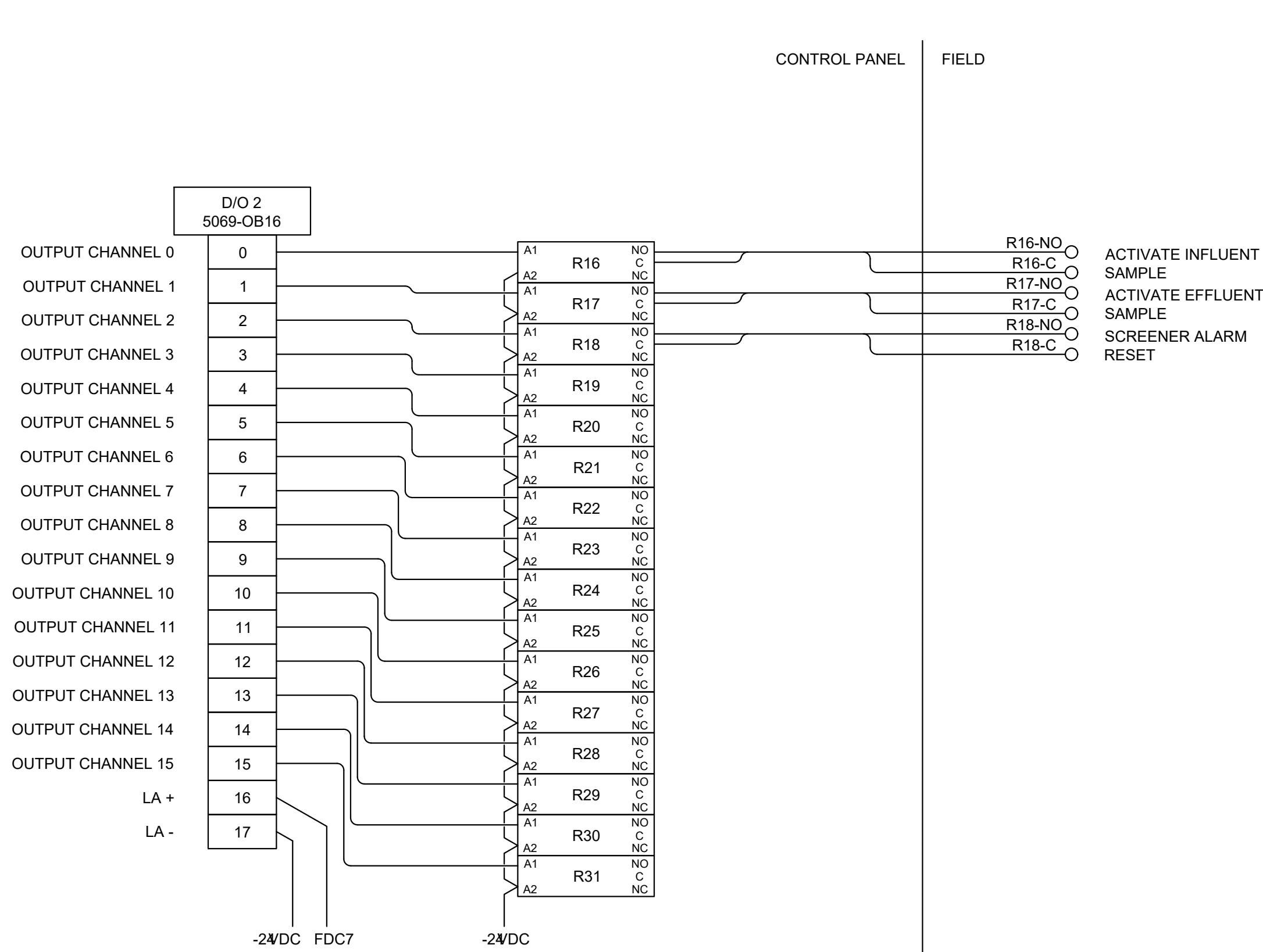
PWGS&C Project Manager Administrateur de projets TP&SC

project number no. du projet

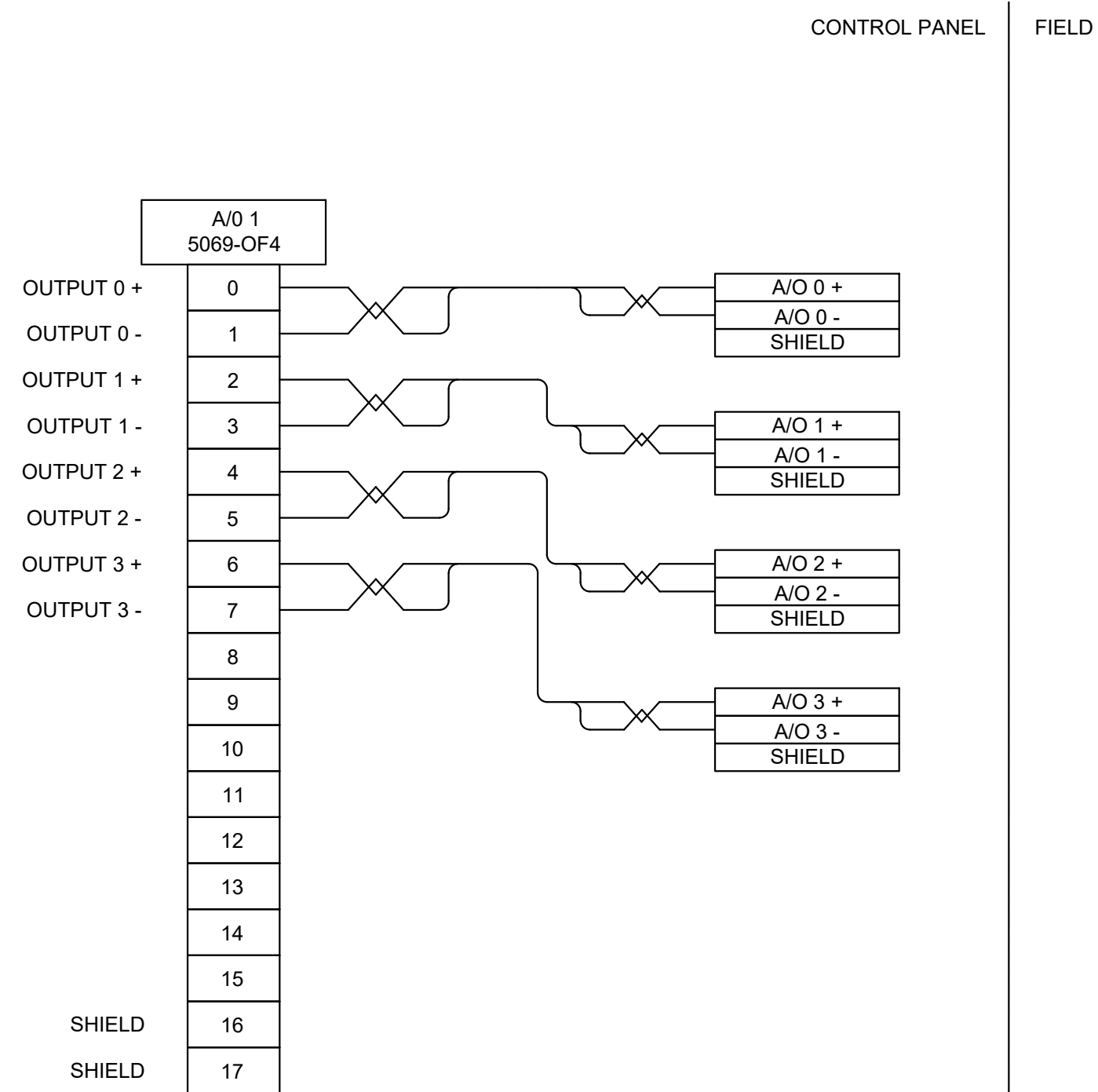
R.061876.001

drawing no. no. du dessin

E12



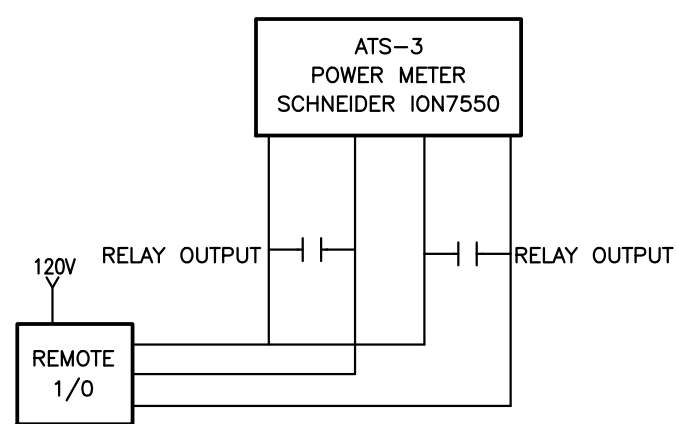
RACK 1 SLOT 9 DISCRETE OUTPUT CARD 2
NTS



RACK 1 SLOT 10 ANALOG OUTPUT CARD 1
NTS

DETAIL NOTES

1. REMOTE I/O TO BE INSTALLED IN A PROPERLY SIZED CABINET. CABINET TO BE C/W TERMINAL BLOCKS, POWER SUPPLY, FUSES, ETC.
2. REMOTE I/O TO HAVE AT LEAST 4 DIGITAL INPUTS AND COMMUNICATION PROTOCOL TO BE MODBUS TCP.
3. POWER METER TO BE RE-CONFIGURED SO IT ACTIVATES A RELAY OUTPUT WHEN AMPERAGE REACHES 240A.
4. POWER METER TO BE RE-CONFIGURED SO IT ACTIVATES A RELAY OUTPUT WHEN AMPERAGE REACHES 270A.
5. BMS SHALL GIVE AN ALARM WHEN TAS-02 REACHES 80% (240A) OF CAPACITY THROUGH NETWORK COMING FROM SEWAGE TREATMENT PLANT PLC COMMUNICATING WITH REMOTE I/O.
6. SEWAGE TREATMENT PLANT PLC SHALL START LOAD SHEDDING PROCESS WHEN TAS-02 REACHES 90% (270A) OF CAPACITY THROUGH NETWORK COMING FROM REMOTE I/O.
7. REMOTE I/O TO BE CONNECTED ON BUILDING A5 NETWORK AT THE CLOSEST POINT WHERE POSSIBLE. REMOTE I/O PANEL TO BE FED FROM A 120V CIRCUIT IN BUILDING A5 WHERE POSSIBLE.



PROCESS LOAD SHEDDING MONITORING DETAIL
NTS