

F.C. O'Neill, Scriven
& Assoc's Limited
Consulting Engineers
3450 University Street, Box 140
St. John's, NL A1B 3X2
Tel: (709) 223-3725
www.onsa.com



WILLIAM NYCUM & ASSOCIATES LIMITED
5505 Young Street, Halifax, NS, Canada, B3K 1Z7
Tel: (902) 454-8817 Fax: (902) 454-8820
www.nycum.com



ALL DIMENSIONS SHOWN ON STRUCTURAL DRAWINGS ARE FOR REFERENCE PURPOSES ONLY. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS.

ELECTRICAL NOTES:

INDICATED BY THE ◊ SYMBOL ON THE DRAWINGS. (I.E. ◊ INDICATES NOTE 1)

NOTE 1: EXISTING PUMPS P3 & P4 WHICH ARE CURRENTLY FED FROM NON-EMERGENCY PANEL "EP1A" SHALL BE RE-FED FROM EMERGENCY PANEL "E3P1A". RELOCATE EXISTING CIRCUIT BREAKERS AND MOUNTING HARDWARE FROM PANEL "EP1A" TO PANEL "E3P1A" AND RE-WIRE FROM PANEL TO RESPECTIVE VFD WITH 3#10+1#2B-21mmC. REDUNDANT WIRING TO BE REMOVED.

NOTE 2: EXISTING PUMPS P5, P6, P7 & P8 WHICH ARE CURRENTLY FED FROM NON-EMERGENCY PANEL "EP1A" SHALL BE RE-FED FROM EMERGENCY PANEL "E3P1A". RELOCATE EXISTING CIRCUIT BREAKERS AND MOUNTING HARDWARE FROM PANEL "EP1A" TO PANEL "E3P1A" AND RE-WIRE FROM PANEL TO RESPECTIVE VFD WITH 3#12+1#2B-21mmC. REDUNDANT WIRING TO BE REMOVED.

NOTE 3: EXISTING BAS PANEL (CCT # P1B-5) TO BE RE-FED FROM A NEW 1P-15A BREAKER IN PANEL "EP1A" (CCT # 9). NEW BREAKER FRAME TO MATCH EXISTING. REDUNDANT CIRCUITRY TO BE REMOVED.

NOTE 4: EXISTING BAS PANEL (CCT # P1B-5) TO BE RE-FED FROM A NEW 1P-15A BREAKER IN PANEL "EP1A" (CCT # 11). NEW BREAKER FRAME TO MATCH EXISTING. REDUNDANT CIRCUITRY TO BE REMOVED.

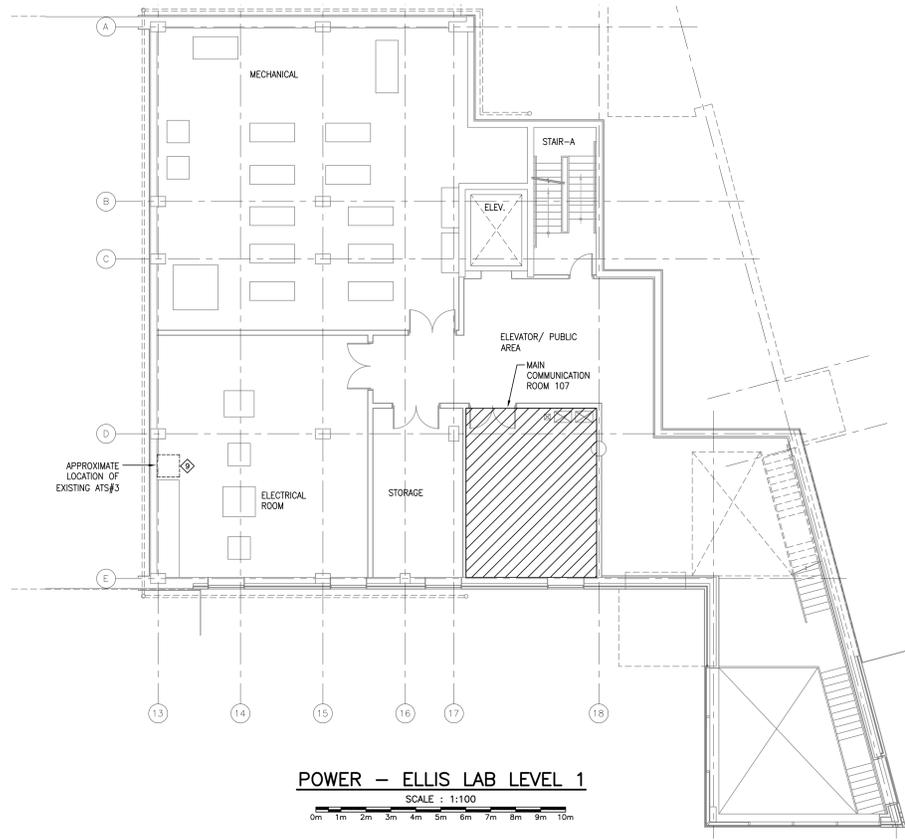
NOTE 5: EXISTING VESTIBULE FORCE FLOW HEATER TO BE RE-FED FROM A NEW 1P-15A BREAKER IN PANEL "EP1A" (CCT # 2). NEW BREAKER FRAME TO MATCH EXISTING. REDUNDANT CIRCUITRY TO BE REMOVED.

NOTE 6: AT5#4 IS EXISTING AND INCLUDES AN EXISTING ETHERNET CARD. PROVIDE 1 X CAT 5 CABLE IN 21mm EMT CONDUIT FROM AT5#4 ETHERNET CARD TO COMMUNICATIONS ROOM 116. THE INTENT IS TO ALLOW AT5#4 TO DISPLAY ITS ELECTRICAL PARAMETERS STATUS TO NEW SWITCHGEAR. MODIFY EXISTING AT5#4 AND INCLUDE ALL REQUIRED SOFTWARE AND HARDWARE UPGRADES TO SUPPORT THE NEW ADDITION.

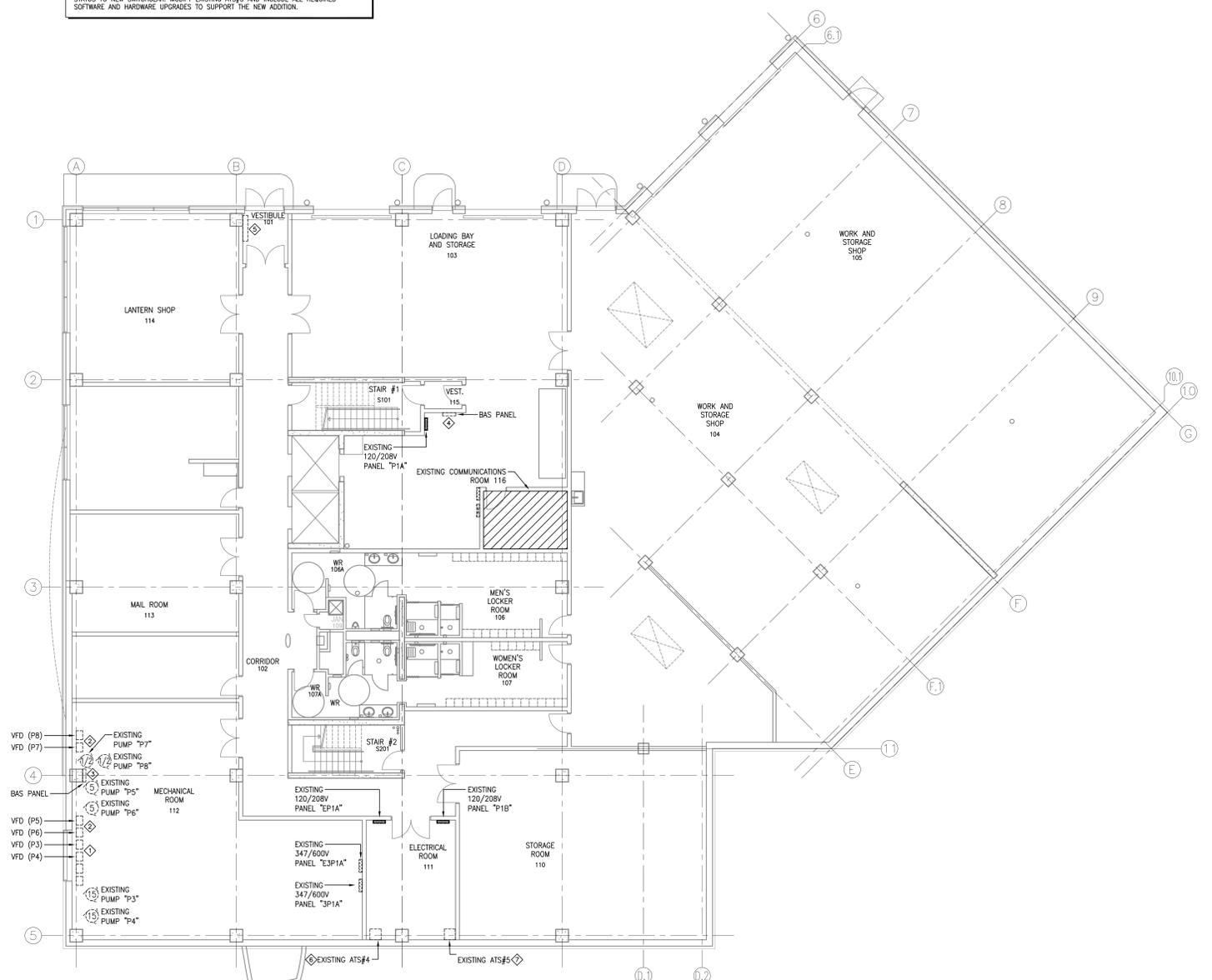
NOTE 7: THE INTENT IS TO UPGRADE EXISTING AT5#5 COMMUNICATION CAPABILITIES TO ALLOW AT5#5 TO DISPLAY ITS ELECTRICAL PARAMETERS STATUS TO NEW SYNCHRONIZING SWITCHGEAR. PROVIDE ETHERNET CARD COMPATIBLE WITH AT5#5 (MODEL NUMBER #AT5C2K4004DESC, SERIAL NUMBER #23E259300). PROVIDE 1 X CAT 5 CABLE IN 21mm EMT CONDUIT FROM AT5#5 ETHERNET CARD TO COMMUNICATIONS ROOM 116. MODIFY AT5#5 AND INCLUDE ALL REQUIRED SOFTWARE AND HARDWARE UPGRADES TO SUPPORT THE NEW ADDITION.

NOTE 8: EXISTING VESTIBULE FORCE FLOW HEATER TO BE RE-FED FROM A NEW 1P-15A BREAKER IN PANEL "EP2A" (CCT # 10). NEW BREAKER FRAME TO MATCH EXISTING. REDUNDANT CIRCUITRY TO BE REMOVED.

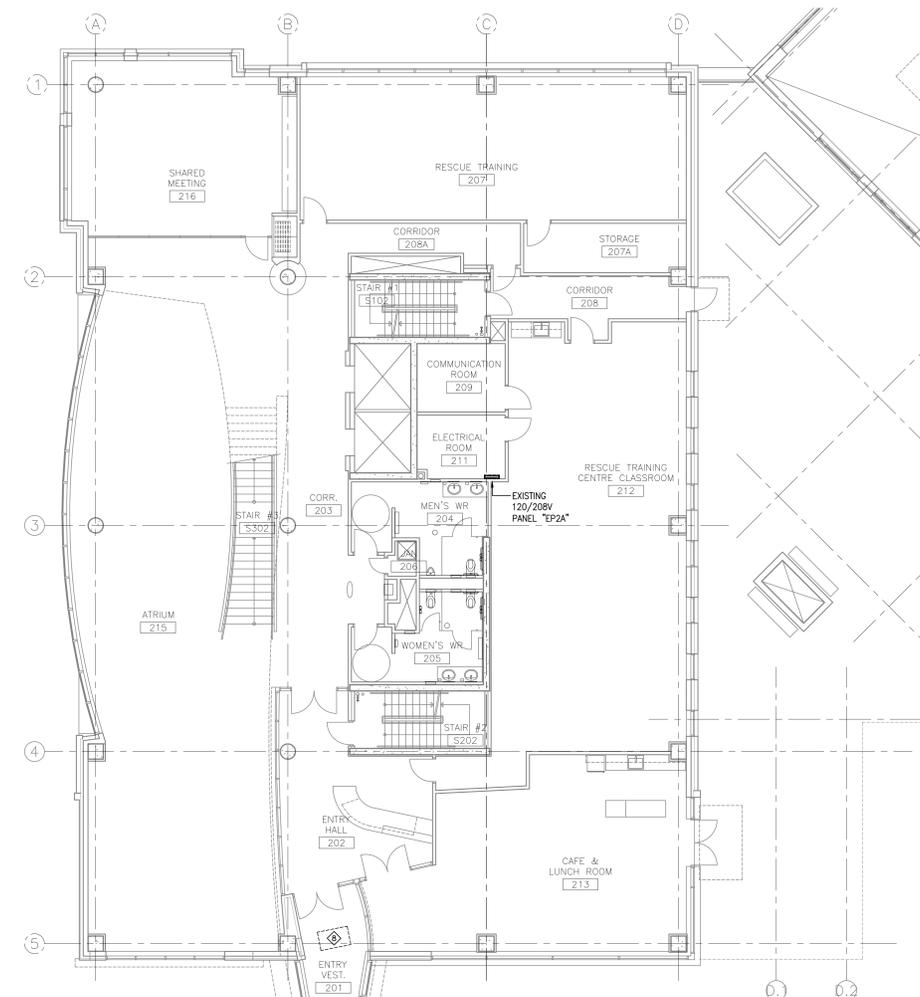
NOTE 9: AT5#3 IS EXISTING AND INCLUDES AN EXISTING ETHERNET CARD. PROVIDE 1 X CAT 5 CABLE IN 21mm EMT CONDUIT FROM AT5#3 ETHERNET CARD TO COMMUNICATIONS ROOM 107. THE INTENT IS TO ALLOW AT5#3 TO DISPLAY ITS ELECTRICAL PARAMETERS STATUS TO NEW SWITCHGEAR. MODIFY EXISTING AT5#3 AND INCLUDE ALL REQUIRED SOFTWARE AND HARDWARE UPGRADES TO SUPPORT THE NEW ADDITION.



POWER - ELLIS LAB LEVEL 1
SCALE : 1:100



POWER - COAST GUARD LEVEL 1
SCALE : 1:100



POWER - COAST GUARD LEVEL 2
SCALE : 1:100



4	ISSUED FOR TENDER	08/23/2016
3	RE-ISSUED FOR 100% REVIEW	07/18/2016
2	ISSUED FOR 100% REVIEW	06/15/2016
1	ISSUED FOR 70% REVIEW	04/08/2016

BIO GENERATOR UPGRADES FOR CAMPUS HEATING SYSTEM
BEDFORD INSTITUTE OCEANOGRAPHY
DARTMOUTH - NS

COAST GUARD & ELLIS LAB BUILDINGS FLOOR PLANS

designed	PM	concep
date	JULY 2016	
drawn	PM	dessiné
date	JULY 2016	
approved	JB	approuvé
date	JULY 2016	
tender		soumission

PWSC Project Manager Administrateur de projets TPSC
project number no. du projet
R.080319.001

drawing no. no. du dessin
E-108