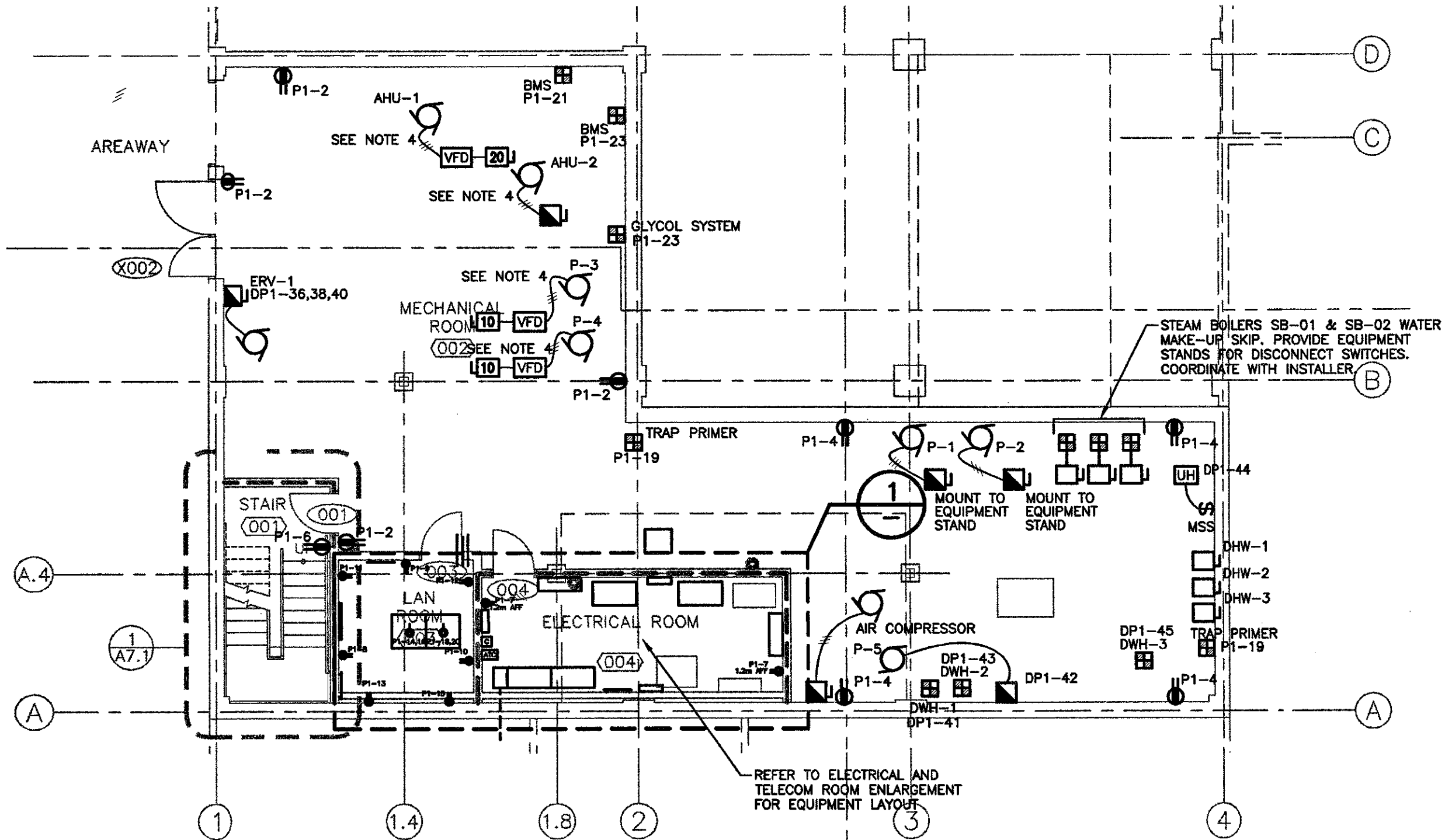


GROUND LEVEL POWER & COMMUNICATIONS

SCALE : 1:100

0m 1m 2m 3m 4m 5m 6m 7m 8m 9m 10m



BASEMENT POWER & COMMUNICATIONS

SCALE : 1:100

0m 1m 2m 3m 4m 5m 6m 7m 8m 9m 10m

COMMUNICATIONS CABLE/CONDUIT CAPACITY TABLE		ALLOWABLE QUANTITY OF CABLES							
CONDUIT TRADE SIZE		CABLE OUTSIDE DIAMETER							
mm	INCHES	3.3mm	4.6mm	5.6mm	6.1mm	7.4mm	7.9mm	9.4mm	13.5mm
18	1/2	N/A	N/A	N/A	N/A	0.25"	0.31"	0.37"	0.53"
21	3/4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
27	1	8	8	7	6	3	3	2	1
35	1 1/4	18	14	12	10	6	4	3	1
41	1 1/2	20	18	16	15	7	5	4	2
53	2	30	26	22	20	14	12	7	4
63	2 1/2	45	40	36	30	17	14	12	6
78	3	70	60	50	40	20	20	17	7
91	3 1/2	N/A	N/A	N/A	N/A	N/A	N/A	22	12
103	4	N/A	N/A	N/A	N/A	N/A	N/A	30	14

MINIMUM CONDUCTOR SIZING TABLE FOR 120V, 15A BRANCH CIRCUITS				
BRANCH CIRCUIT LENGTH OF RUN	PHASE WIRE SIZE	SEPARATE NEUTRAL SIZE	COMMON NEUTRAL SIZE	BOND WIRE SIZE
0m to 24.8m	#12 AWG	#12 AWG	#12 AWG	#12 AWG
24.8m to 40.2m	#10 AWG	#10 AWG	#10 AWG	#10 AWG
40.2m to 63.8m	#8 AWG	#8 AWG	#8 AWG	#10 AWG
63.8m to 101.7m	#6 AWG	#6 AWG	#6 AWG	#8 AWG

MINIMUM CONDUCTOR SIZING TABLE FOR 120V, 20A BRANCH CIRCUITS				
BRANCH CIRCUIT LENGTH OF RUN	PHASE WIRE SIZE	SEPARATE NEUTRAL SIZE	COMMON NEUTRAL SIZE	BOND WIRE SIZE
0m to 18.3m	#12 AWG	#12 AWG	#12 AWG	#12 AWG
18.3m to 30.8m	#10 AWG	#10 AWG	#10 AWG	#10 AWG
30.8m to 49.9m	#8 AWG	#8 AWG	#8 AWG	#10 AWG
49.9m to 77.8m	#6 AWG	#6 AWG	#6 AWG	#8 AWG

1. ALL OTHER 120V BRANCH CIRCUIT WIRING SIZES TO BE SIZED IN ACCORDANCE WITH THE CANADIAN ELECTRICAL CODE FOR NO MORE THAN 3% VOLTAGE DROP AND APPROPRIATE DISTANCE. CORRECTION FACTORS IN ACCORDANCE WITH TABLE D3 AS WELL AS CABLE AMPACITY CORRECTION FACTORS SPECIFIED IN TABLE 5C.

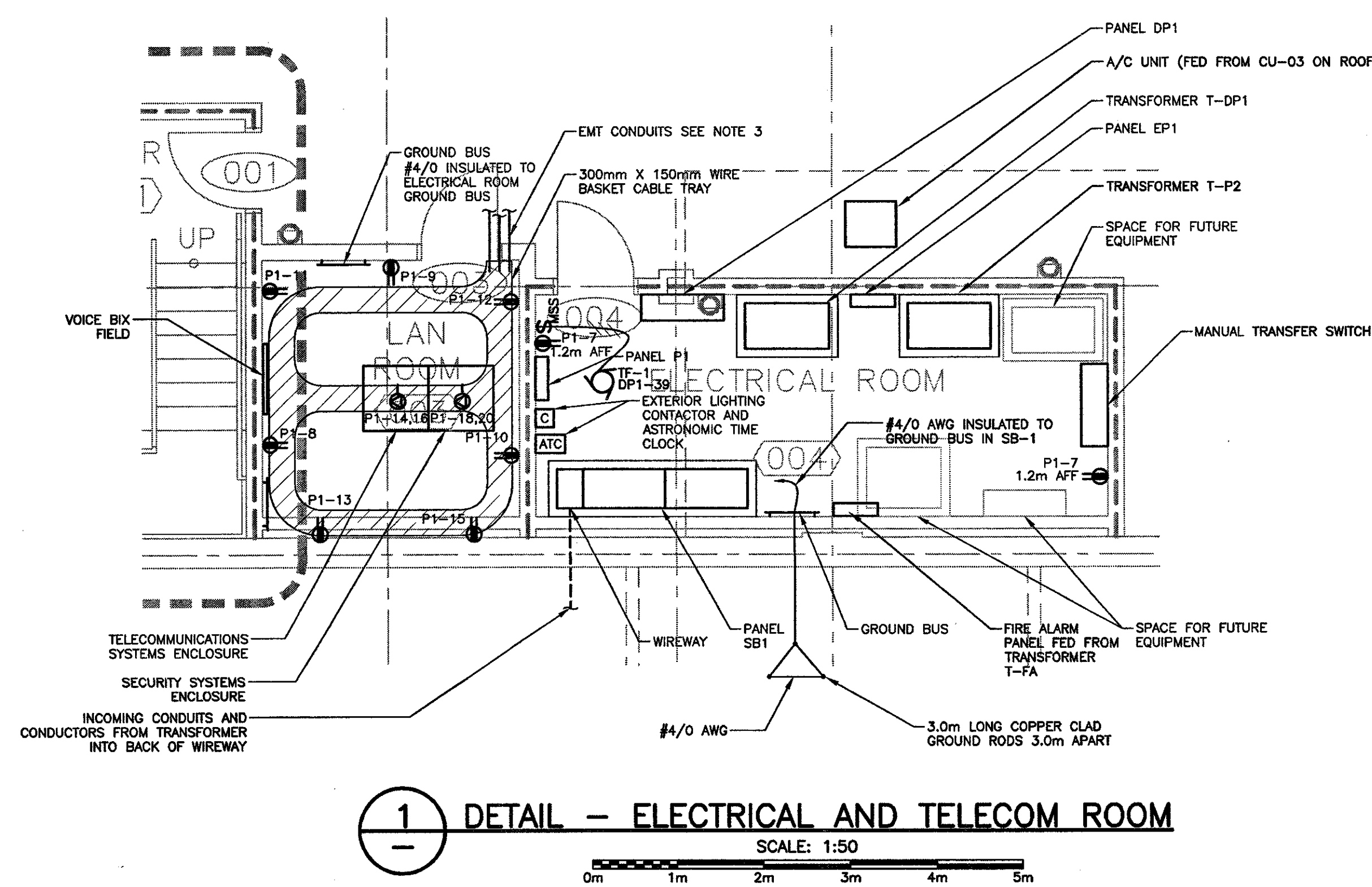
KITCHEN EQUIPMENT LIST		ELECT			
#	Qty	Description	Amp	kW	HP
1	1	Walk-in cooler - Condensing Unit	8.2	120	1
1	1	Evaporator	5	120	1
1	1	Lights, alarm, heat tape	10	120	1
5A	1	Walk-in Freezer, sliding door	11.9	208	3
1	1	Evaporator	10	120	1
1	1	Lights, alarm, heat tape	10	120	1
8	1	Walk-in cooler - Condensing Unit	15.5	208	3
2	2	Evaporator	10	120	1
1	1	Lights, alarm, heat tape	10	120	1
10	2	Cook-chill tilting kettle 100 gal.	7.8	208	3
11	1	Utility raceway	30	208	3
12	1	Kettle control panel on pedestal			
13	1	Walk-in Cooler - Condensing Unit	4.6	120	1
1	1	Evaporator	5	120	1
1	1	Lights, alarm, heat tape	10	120	1
14	1	Walk-in Cooler - Condensing Unit	4.6	120	1
1	1	Evaporator	5	120	1
1	1	Lights, alarm, heat tape	10	120	1
15	1	Walk-in Cooler - Condensing Unit	4.6	120	1
1	1	Evaporator	5	120	1
1	1	Lights, alarm, heat tape	10	120	1
16	1	Walk-in Cooler - Condensing Unit	4.6	120	1
1	1	Evaporator	5	120	1
1	1	Lights, alarm, heat tape	10	120	1
21	11	Stainless steel work table	12	120	1
26	2	Rapid product chiller/cook sink	20	208	3
29	1	Stainless steel double sink	12	120	1
30	1	Stainless steel work table	12	120	1
31	1	Vegetable processor	10	208	3
32	2	Mobile pump/fill station	10	208	3
33	1	Vacuum clipper w/nozzle	6	120	1
40	1	Air cooled remote refrigeration	40	208	3
63	1	Walk-in Cooler - Condensing Unit	4.6	120	1
1	1	Evaporator	5	120	1
1	1	Lights, alarm, heat tape	10	120	1
63A	1	Walk-in Freezer - Condensing Unit	18.1	208	3
1	1	Evaporator	10	120	1
1	1	Lights, alarm, heat tape	10	120	1
67	1	Power wash sink system	20	208	3
68	1	Soiled dishable w/rinse sink	10	120	1
70	1	Rack conveyor machine	32	575	3
		Rack conveyor booster c/w sink	24	575	3
77	1	Stainless steel work table	12	120	1
87	1	Fire Extinguishing System	10	120	1

LEGEND

- 15A, 120V, DUPLEX RECEPTACLE
- 20A, 120V, DUPLEX RECEPTACLE
- SPECIAL RECEPTACLE
- QUAD-RECEPTACLE (2-DUPLEX RECEPTACLES IN COMMON COVERPLATE)
- DIRECT CONNECTION TO EQUIPMENT
- VOICE OUTLET, QUANTITY AS INDICATED, QUANTITY IS 1 IF LEFT BLANK
- DISCONNECT SWITCH
- TOGGLE TYPE MANUAL MOTOR STARTER
- MAGNETIC MOTOR STARTER
- COMBINATION MAGNETIC STARTER
- DATA OUTLET, QUANTITY AS INDICATED, QUANTITY IS 1 IF LEFT BLANK
- VOICE/DATA OUTLET LOCATION
- VOICE AND DATA ARE TO BE GROUPED IN SEPARATE OUTLET BOXES
- #V INDICATES QUANTITY OF DATA
- #V INDICATES QUANTITY OF VOICE
- PUSHBUTTON
- MULTIPLE PUSH BUTTONS
- CONNECTION TO DOOR OPENER
- CONNECTION TO ELECTRONIC LATCH RETRACTION
- CONNECTION TO HAND DRYER
- ASTRONOMIC TIME CLOCK
- CONTACTOR
- CONTROL TRANSFORMER FOR ELECTRONIC PLENUM FIXTURES
- GROUND FAULT CIRCUIT INTERRUPTING DEVICE
- WEATHERPROOF
- DEVICE MOUNTED 150mm ABOVE COUNTER TOP
- MICROWAVE
- FRIDGE
- DISH WASHER

NOTES:

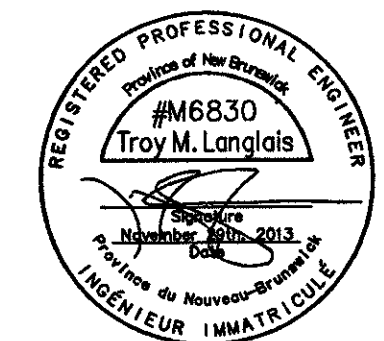
- ALL JUNCTION BOXES AND EQUIPMENT WHICH ARE LOCATED IN CEILING SPACES SHALL BE ACCESSED THROUGH THE USE OF ACCESS HATCHES. COORDINATE EXACT LOCATIONS ON-SITE.
- DEVICES SHALL BE INSTALLED ON EQUIPMENT. PROVIDE JUNCTION BOX ON WALL AND ON EQUIPMENT AND FLEXIBLE CONNECTION BETWEEN. COORDINATE EXACT LOCATION OF DEVICES ON-SITE.
- CONDUITS SHALL BE BONDED TO CABLE TRAY.
- VFD SUPPLIED WITH MECHANICAL EQUIPMENT. INSTALL OF UNISTRUT STAND AND CONNECT MOTOR WITH LIT.
- COORDINATE WITH MECHANICAL FOR EXACT LOCATION OF EQUIPMENT.
- REFER TO MOTOR LIST FOR POWER CONNECTION INSTALLATIONS. COORDINATE LOCATION OF CONTROL PANEL WITH GENERAL CONTRACTOR.
- LOCATE MANUAL STARTER IN CEILING SPACE AT NEAREST ACCESS PANEL.
- ALL CONDUIT AND WIRING TO BE CONCEALED IN WALLS AND CEILINGS EXCEPT LOWER LEVEL.
- ALL DEVICES TO BE RECESSED IN WALLS.
- PANELS P2, P2A, AND P3 TO BE RECESSED MOUNTED.
- ALL WIRING IN LOADING DOCK AREA 138 TO BE IN GALVANIZED RIGID STEEL CONDUIT.



1 DETAIL - ELECTRICAL AND TELECOM ROOM

SCALE: 1:50

0m 1m 2m 3m 4m 5m



0	ISSUED FOR TENDER	Nov/29/2013
revisions		date
project	NEW FOOD SERVICES BUILDING	
	WESTMORLAND INSTITUTION	
	DORCHESTER, NB	
drawing	ELECTRICAL POWER & COMMUNICATIONS PLANS	
designed	MM	conq
date	Aug. 3, 2013	
drawn	MM	desin
date	Aug. 3, 2013	
approved	TL	approved
date	Nov. 29, 2013	
project number	R.061828.001	no. du projet
drawing no.	E2.1	no. du dessin