

THE FOLLOWING ADDENDUM SUPERCEDES INFORMATION CONTAINED IN DRAWINGS AND SPECIFICATIONS ISSUED FOR THE PROJECT TO THE EXTENT REFERENCED. THIS ADDENDUM FORMS PART OF THE TENDER DOCUMENTS AND IS SUBJECT TO ALL OF THE CONDITIONS SET OUT IN THE CONTRACT CONDITIONS.

This electrical addendum contains four (4) page. Plus one (1) page for Site Plan, one (1) page for Distribution Diagram, one (1) page for Grounding, and one (1) page for Under the Pier Photo's for a total of eight (8) pages.

Part 1 Luminaires Schedule (Selection where based on the following, used below or equivalent)

1.1 TYPE 'A'

- .1 Philips LF4-FR-39-35-U-DZT complete with SVC60 cable kits where required.

1.2 TYPE 'A1'

- .1 Philips LF3-FR-30-35-U-DZT complete with SVC60 cables kits where required.

1.3 TYPE 'B'

- .1 Philips STR-8-35-10

1.4 TYPE 'C'

- .1 He Williams VWMV-L10-TL-DBZ-CGL-PC-DIM-UNV.

1.5 TYPE 'D'

- .1 Philips LPFI-E-4K-FL-K-8BZ

1.6 EXIT

- .1 Beghelli-VE-RM-SP-U-OLR-M (thermoplastic).

1.7 EMERGENCY LIGHT

- .1 Beghelli-SR-2-12V7 LED MR16.

Part 2 Refer to Electrical Drawing E1.0

2.1 SITE PLAN

- .1 Provide 90A breaker and 3 #1copper in 50mm RPVC from Main Hydro cabinet, to 100A exterior disconnect on building (estimated only run of 330').
- .2 Provide 2 x 50mm RPVC conduits from SAR communication cabinet and 2 x 50mm RPVC conduit Harbour Authority communication backboard to under pier cable trays.

Part 3 Refer to Electrical Drawings E2.0

3.1 HARBOUR AUTHORITY OFFICES 117

- .1 Communications
- Provide a 19 x 1200 x 1200mw G.I.S plywood panel on wall adjacent to Panel 'C'. Paint to match wall finish.
 - Provide 6 x 25 x 20mm ground bar complete with 8 holes on lower edge of plywood. Extend #6 green ground and interconnect to main incoming electrical ground.
 - Provide two duplex receptacles cct #C 15 adjacent plywood.
 - Provide 2 x 2" PVC conduits from existing cable tray below the pier and terminate at the communication plywood.

- Provide 3 x CAT6 cables below each outlet in a 25mm conduit to communications plywood. Coil 1 meter of cables.
- Test cables and issue report.

3.2 SARS OFFICE

.1 Workshop

- Delete 60A-600V disconnect switch and tenant meter.

3.3 EXTERIOR

- .1** Provide 100A 600V main disconnect (WP) complete with 90A fuses and hydro meter on wall adjacent door entry.

3.4 SYMBOL 'D1' - REPRESENTS ACCESS DOOR CONTROL

- .1** Delete 'D1' at exterior Meeting Room Door 112.
- .2** Provide D1 at Crew Office 100 exterior door.
- .3** Provide cct #B7 for access door controls.
- .4** Provide 6 "F.O.B".

Part 4 Refer to Electrical Drawings E3.0

4.1 MECHANICAL EQUIPMENT SCHEDULE

- .1** (HP-1/CU-1) Change 30A-3P breaker to 45A-3P breaker 4 #8 - 25mm.

4.2 PANEL C

- .1** Change 42 circuit panel to 20 circuit panel.

Part 5 Refer to the email from Pacific Northwest Electric & controls dated November 28, 2016

5.1 QUESTION

- .1** What type of cabling and conduit is to be used in the building?

5.2 AES RESPONSE

Conduit to be installed in open areas. BX above ceiling and down walls. No Lumex (NMD-90).

- .1** Where will the main services and communication services be tied into.

5.3 AES RESPONSE

- .1** The Main Service is located adjacent the ferry terminal (BC Hydro). See attached site plan.

Communication cables will be installed in at a later date.

Part 6 Refer to the email from Broadwater Industries dated November 29, 2016

6.1 QUESTIONS

- .1** Who is supplying the network cabinet?
- a) If it is for the contract to supply more detail is required in order to quote
- b) Who will be tying in the network? (Including organizing outages to existing facilities, and patching if required)

AES RESPONSE

Electrical Contractor supply's cabinet, rack, patch panels, power bar, fan, CAT6 Cables and

ground bar.

Contractor to test all cables and submit a report. SAR and Harbour Authorities will be responsible for net work equipment, testing and co-ordinating incoming service.

- .2 On the grounding illustration (6/E2.0) it details to install a ground plate from the antenna, however, the building will be hovering above walk
- a) Are we to bring the ground plate back to shore?
 - b) Or is there an existing ground we can tap onto?
 - c) for the ground cables outside the building (ex. From work shop to ground plate and from antenna to ground plate) are these to be insulated grounds? Or in conduits in the concrete?

AES RESPONSE

Lightning ground and electrical ground to be connect to steel pylons – see grounding detail.

No. do not assume existing ground.

Install #6 green ground in a 25mm RPVC conduit under the pier. Between electrical ground and lighting ground.

- .3 Single line Diagram shows a 45kVA transformer and the layout shows a 75kVA transformer
- a) What is required?

AES RESPONSE

75 kVA transformer 600V to 120/208V, 3Phase, 4 wire required. See revised distribution.

- .4 In the design they detail for a receptacle for the generator to be supplied
- a) What is the configuration of the plug on the generator, so supply to corresponding receptacle

6.2 AES RESPONSE

Provide a weatherproof 30A – 2P twist lock receptacle. Generator supplied later by others.

- .5 The single line on drawing E2.0 (detail 5/E2.0) should the new building being fed from “Existing 600V distribution panel”
- a) No location provided for the panel.

6.3 AES RESPONSE

See attached site plan for location of Main Hydro Service (adjacent ferries).

- .6 There is no Fire Alarm detail for the this building can you confirm this is correct?

6.4 AES RESPONSE

No Fire Alarm System.

6.5 PIPE TRACING

- .1 Mechanical contractor to provide under pier tracing cable.
- .2 Electrical to provide cct # C15 to water tracing cables and cct #44 and A46 to sewage tracing cables. Co-ordinate with mechanical.

Part 7 Refer to the email from Public Works and Government Services dated December 5, 2016

7.1 QUESTIONS

- .1 Room 100 (Crew Office); there is a 1.5kW Baseboard shown on mechanical drawing (M2.01) which is not shown on electrical prints. Is this baseboard required?

AES RESPONSE

Provide 1.5kW baseboard with built in thermostat (under window). Circuit #A47 / A49, 15A-2P.

- .2 Room 104 (drying room); there is a .5kW baseboard shown on mechanical drawing (M2.01) which is not shown on electrical print. Is this baseboard required?

AES RESPONSE

Provide 0.5kW baseboard heater complete with built in thermostat circuit #A47 / A49, 15A-2P.

- .3 In the specs it details that all "Site service sub-circuits, including site lighting, are to be a minimum of #10", would this include all branch circuits? If so, would it be possible to use #12
a) Sanitary pumps control panel, who's scope is it to provide power to this unit

AES RESPONSE

Minimum #12 wire.

Sanitary pumps circuit #A46, 30A-1P

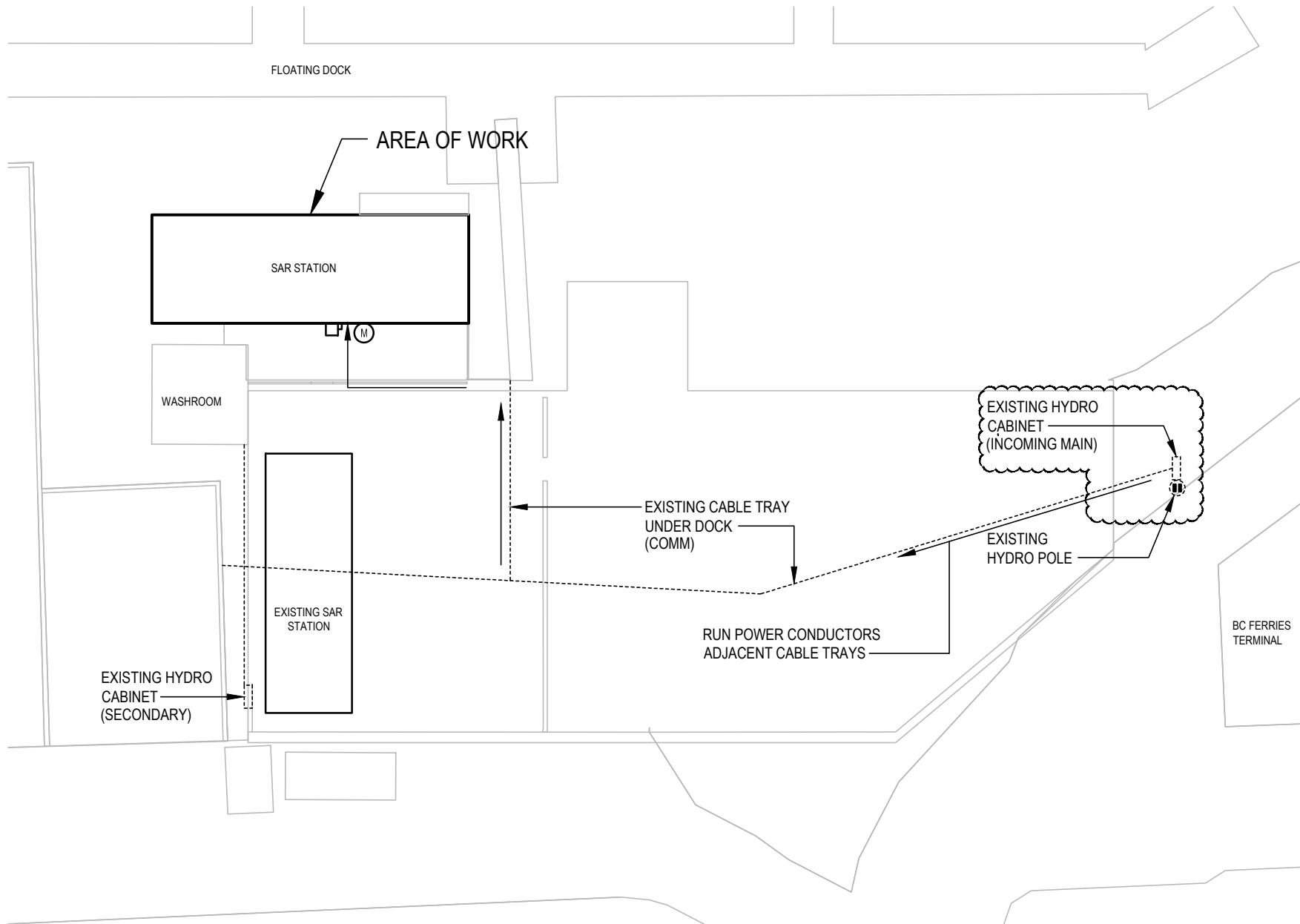
- .4 For the Access control; Please provide more information on the intended design
For example: do they want the fobs to turn off the alarm and unlock the door; do they require a break glass sensor on the windows (or something along those lines); are readers required at every exterior door?; How many alarm speakers are required?; do they want the system monitored (24hr monitoring); there are 2 occupants of this building, do the two systems need to be separated? Etc.

AES RESPONSE

F.O.B. or reader, to release the door electric strike.

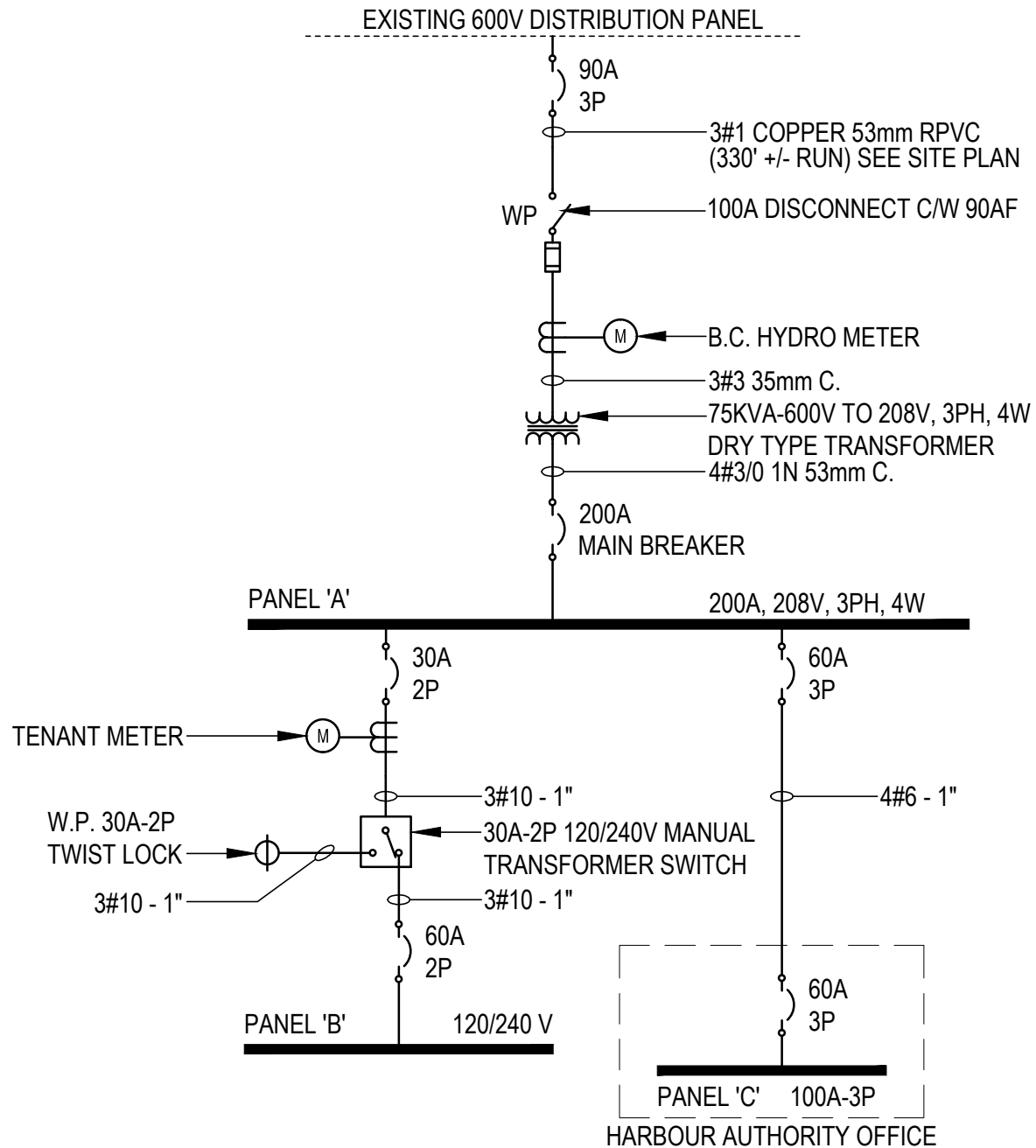
SEE ATTACHED: Site Plan, Distribution Diagram, Grounding, and Under Prier Photo.

END OF ELECTRICAL ADDENDUM NO. 01

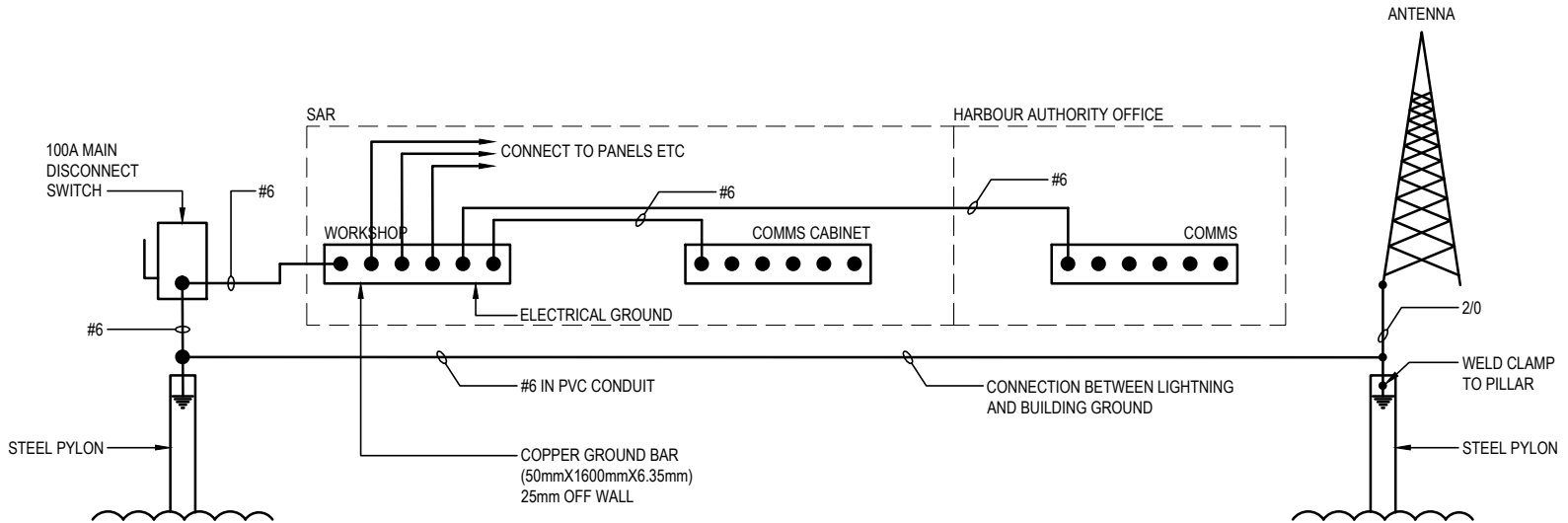


SITE PLAN

SAR - PRINCE RUPERT
ADDENDUM E1



DISTRIBUTION DIAGRAM



GROUNDING DIAGRAM

SAR - PRINCE RUPERT
ADDENDUM E1

