

THE FOLLOWING ADDENDUM SUPERSEDES 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 three (3) pages plus one (1) page of scanned documents for a total of five (5) pages.

Part 1 Attendance

.1 The following persons attended the site meeting:

Name	Company	Email	Phone
Chad Saunders	F+M Installations Ltd.	csaunders@fminsallations.com	250-741-2560
Keith Inmon	F+M Installations Ltd.	kinman@gminstllations.com	798-879-3700
Jacek Laszkieinicz	Beaver Electrical Machinery Ltd.	jacekl@beaverelectrical.com	778-999-3863
Dana Bye	Belltech Electric	dana@belltech.ca	778-402-8900
Tom Takacs	Sasco Contractors	ttakacs@sascocontractors.com	250-710-0165
Patrick Humphreys	Island Technical Installations	Patrick.humphreys@islandtechnical.com	250-883-3251
Paul DeMedeiros	Copcan Civil	pdemedeiros@copcan.ca	250-213-1645
Danny Bennalack	Houle Electric	Danny.bennalack@houle.ca	250-639-5520

Part 2 Questions and Clarifications

.1 *Q: When and how will it be determined if the existing conductors to the building switchgear from the unit sub will need to be replaced with new.*

A: Existing conductors to be megger tested during outage to determine condition.

.2 *Q: If we can't determine whether the conductors need to be replaced until the unit sub is removed, are we expected to have replacement feeders on hand (bought and payed for and ready to install)?*

A: Only carry separate price for the replacement, and the costs for testing. Supply of replacement parts would be based on actual site conditions and the schedule will need to be adjusted to accommodate site conditions.

.3 *Q: How much extra should we add to the scaled measurement of the conduit run so that if required, the replacement conductors do not come up short.*

A: Assume 10% additional length

- .4 *Q: If the conductors do need to be replaced, what is the plan for if the old conductors can't be removed from the existing conduits? This is not an unheard of occurrence.*
A: This would need to be examined more closely, but due to site constraints OH teck or exterior conduit would likely be required. This is NOT IN SCOPE.
- .5 *Q: How are we to finish the grade around the new kiosk pad where the concrete has been removed? I don't see a note regarding this detail, the detail section just indicates "GRADE".*
A: Grade to be finished with 100mm crush gravel on all nonconcrete areas
- .6 *Q: In what state are we expected to leave the area around the new transformer? Topsoil (to what depth)? Gravel?*
A: Restore to existing conditions, garden topsoil to 250mm depth.
- .7 *Q: With respect to bonding the rebar in the existing concrete walls; please provide a detail showing acceptable method and materials.*
A: Bonding methods are detailed in the BC Hydro underground standards and must follow the BC Hydro details laid out in that document.
- .8 *Q: What is meant by "connect existing railings to new ground connections at a minimum of 2 points" in the note on 2/E1? Please provide a detail.*
A: The existing steel railings require bonding. A pressure bonding clamp around the tube column would be sufficient to ensure continuity.
- .9 *Q: Does the concrete wall the railing is attached to require bonding of the rebar as well as the railing?*
A: Yes, as detailed the rebar within the wall will need to be exposed and connected at 6 points.
- .10 *Q: Are there any existing as-builts for Telus/Shaw ducts in the area of work?*
A: The existing as-builts do not show an exact location. The existing telecom pull box is located near the front of the existing unity substation, so care must be taken when diggings, chipping or working in that area.
- .11 *Q: Are we expected to provide a poured in place Hydro transformer pad, or a pre-poured pad to Hydro's specifications (and what are those specifications)?*
A: BC Hydro will provide a pad for contractor to install as part of their costs to the owner.
- .12 *Q: Please indicate where stanchions are required. Detail shows 2 where I would not expect them to be.*
A: Assume two stanchions located at the roadside of the transformer for bidding costs.
- .13 *Q: Please confirm all demolition and construction is expected to be done during Dec. 23 to 31?*
A: Confirmed.
- .14 *Q: Is the generator to be run 24 hours a day when the Hydro power is disconnected? Will generator stoppages for maintenance(e.g. checking and adding oil) be acceptable?*
A: 24-hour generator power is expected. If outages are required for short shutdowns they will need to be coordinated with the owner. Assume outages would only be permitted after 5pm.

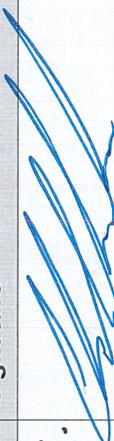
- .15 *Q: Is the actual load on the generator going to be close to 750KW? I ask this because the supplier of the generator may not want it under-loaded for too long due to damage caused by wet-stacking. We also need to know to calculate fuel requirements.*
A: Generator sizing has been reviewed based on BC Hydro loading data. A 400kW Generator should be used for costing. If the supplier is concerned about wet-stacking they could supply a load bank or other means to ensure generator is not underloaded. This would need to be coordinated and carried by the contractor.
- .16 *Q: It is my understanding that BC HYDRO now does all their own design for fall of potential bonding, and that testing is by them or not required. Please confirm. Also please provide BC Hydro's design details prior to tender closing so we can price accordingly*
A: BC Hydro no longer requires fall of potential tests for utility transformers, installed to BC Hydro standards. They still require the typical grounding details as shown in the underground standards and on the drawings. For bidding purposes assume a typical ground grid installation, with wall and railing bond connections. If site conditions require additional work this will be determined later. Fall of potential test is NOT IN SCOPE.
- .17 *Q: Specifications call for us to follow Oak Bay noise by-laws. Will a generator running at 72 to 78 dB 24/7 be acceptable? If not, what is the alternative?*
A: Assume a 72dB Generator is acceptable, noise and informing the neighbors will be handled by the owner.
- .18 *Q: Existing pine hedge will prove difficult to work around. Can it be removed and reinstated?*
A: Existing hedge, shrubs and Oregon grape bushes in area of work can be removed as part of this scope. The existing oak tree is to be retained. Include costs to reinstate pine hedges with new. Confirm exact plant type with Oak Bay during construction. Include costs in base bid.
- .19 *Q: During outage, should the BC Hydro Meter be disconnected?*
A: Existing metering is primary side, new kiosk will contain 600V Secondary metering. As such there should be no need to temporarily disconnect BCH metering during the outage.
- .20 *Q: How should temporary power be routed through the doors into the electrical room?*
A: Provide costs to install a temporary wall and exit door along the end of the corridor to allow existing double doors and electrical room doors to be left open for cables to pass through.
- .21 *Q: Who does the Commissioning and Testing?*
A: All Cx, Testing and verification to be in contractor scope. Cx and Test documents to be submitted for review by client and Engineer of Record (AES).
- .22 *Q: Should the phase loss relay and breaker be an auto resetting type?*
A: Provide breakout separate price in base bid between a manual and auto resetting type main breaker. Ensure the costs include all relays, motor operators, power supply, and control system.

Please review the questions and answers carefully. If a question is not answered to your satisfaction, please contact AES via Email and additional clarifications will be provided in a follow up addendum.

END OF ELECTRICAL TENDER ADDENDUM NO. 01

DISTRICT OF OAK BAY - SITE MEETING ATTENDANCE RECORD

Project Name/Number: OBRC 02-2020 ITT TRANSFORMER
 Date: SEPTEMBER 9, 2020
 Facilitator: TERRY ELONJAGE (OBRC) / JACOB BEILING (AFS)
 Site Location: OAK BAY RECREATION CENTRE

Name - Print	Company	Telephone	Email Address	Signature
CHAD SAUNDERS	F+M INSTALLATIONS LTD.	250-741-7560	C SAUNDERS @ FMINSTALLATIONS.CA	
KEITH INMAN	F+M INSTALLATIONS LTD.	778-879-3700	INMAN @ FMINSTALLATIONS.CA	
JACEK LOSZKIEWICZ	GENERAL ELECTRICAL MECHANICAL LTD.	778-991-9863	JACEK @ GENERAL ELECTRICAL.COM	
DANA BYE	BELLTECH ELECTRIC	778-402-8900	DANA @ BELLTECH.CA	
Tom Takacs	Susco Contractors	250-710-0165	Htakacs@sussocontractors.com	
Patrick Humphreys	Island Technical Installations	250-883-3251	patrick.humphreys@islandtechnical.ca	
PAUL DE MEDEIROS	COPCAN CIVIL	250-2131645	pdemedeiros@copcan.ca	
Danny Bennett-Lack	MOULE ELEC.	250-639-5520	danny.bennettlack@house.ca	