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 eight (8) pages.

PART 1 BIDDER QUERIES AND ANSWERS

1.1 QUERY #1

.1 Can aluminum conductors be used for distribution feeders?

.2 Answer: Yes, Aluminum conductors can be used for distribution feeders in lieu of copper.

1.2 QUERY #2

.1 Can ACWU or Teck cable be used for distribution feeders?

.2 Answer: Not acceptable.

1.3 QUERY #3

.1 Can aluminum busbars be used in panel boards?

.2 Answer: Yes, Aluminum busbars can be used in lieu of copper.

1.4 QUERY #4

.1 Can Aluminum busbars be used in main distribution?

.2 Answer: Yes, Aluminum busbars can be used in lieu of copper.

1.5 QUERY #5

.1 Can AC90 armoured cable be used for the general wiring system within concealed areas?

.2 Answer: AC90 cable is not allowed for this purpose. Refer to specifications for general wiring requirements.

1.6 QUERY #6

.1 Is Division 26 to include the following items in scope of work? Specifications 26-05-1.3.4

A. Power factor correction system? Please provide drawings / specifications

B. Paging / sound system? Please provide drawings / specifications

C. Card reader / door access system? Please provide drawings / specifications

D. Video surveillance system? Please provide drawings / specifications

.2 Answer:

a. Not required. Delete the power factor correction system from specifications section 26-05-00 clause 1.3.4.8.

b. Not required. Delete the Paging / sound system from specifications section 26-05-00 clause 1.3.4.23.

c. Not required. Delete the Card reader / door access system from specifications section 26-05-00 clause 1.3.4.24.

d. Not required. Delete the Video surveillance system from specifications section 26-05-00 clause 1.3.4.25

1.7 QUERY #7

.1 Are we required to supply/install eight (8) spare exit signs required as per specifications?

.2 Answer: Revise to two (2) spare exit signs.

1.8 QUERY #8

.1 Are we required to supply/install six (6) spare fire alarm audible devices required per specifications?

.2 Answer: Revise to two (2) spare fire alarm audible devices.

1.9 QUERY #9

.1 Are we required to supply/install two (2) spare fire alarm heat detectors required as per specifications?

.2 Answer: Revise to one (1) spare fire alarm heat detectors.

1.10 QUERY #10

.1 Are we required to supply/install two (2) spare fire alarm smoke detectors required as per specifications?

.2 Answer: Revise to one (1) spare fire alarm smoke detector.

1.11 QUERY #11

.1 Electrical addendum No.02 deleted the wall mounted low voltage vacancy sensor from the legend. What are we to do with these devices that still exist on the drawing? Are they also deleted?

.2 Answer: This symbol is deleted in the legend because it was never used on the drawing.

1.12 QUERY #12

.1 What is our scope as it relates to the following temporary buildings?

a. 5'x5' portable washroom? Please provide drawings / specifications

b. 10'x52' portable office trailer? Please provide drawings / specifications

c. (3x) 20'x40' fabric covered buildings? Please provide drawings / specifications

.2 Answer: Refer to addendum response by RDN.

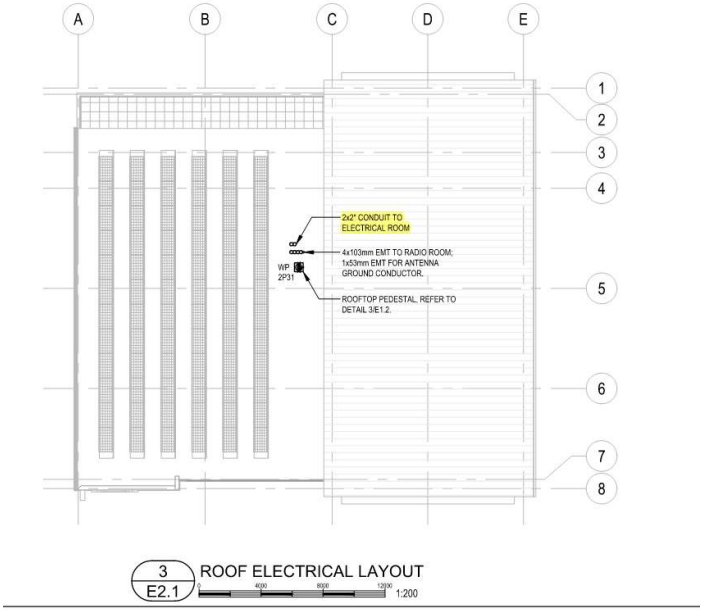
1.13 QUERY #13

.1 Is there an electrical drawing detailing temporary power and site services to the temporary buildings?

.2 Answer: Refer to addendum response by RDN.

1.14 QUERY #14

.1 Can you confirm the purpose of the 2x2" EMT conduits on the rooftop. I assume this is to cover the rough in requirements for future PV array.



.2 Answer: The purpose of 2x2" EMT conduits on rooftop will be determined at a later date.

1.15 QUERY #15

.1 Can you confirm there is no further solar scope of work required for this proposal? It is understood that solar install will be a future scope of work.

.2 Answer: Solar photovoltaic is not in this scope of work.

1.16 QUERY #16

.1 The electrical specifications note an EV charging station, however on the electrical drawings the only EV charging conduit I can find is stubbed and capped in the parking area. Can you please clarify what is required for EV charging stations?

2.1 SCOPE

.1 Manufacturer standard of acceptance:

.1 ELMEC EVC-30 Smart Pro (EVduty ONE) pedestal-mounted unit complete with cable management system.

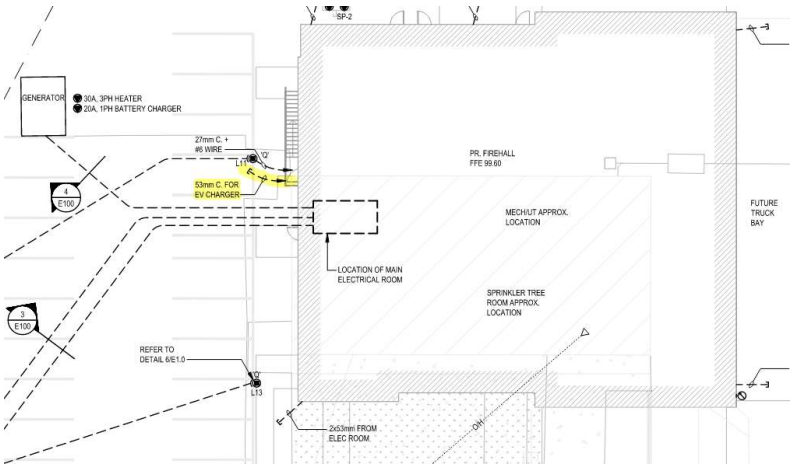
.2 Provide EV charging stations to surface parking stalls as indicated on plan.

.3 EV charging stations shall have the capability of load-sharing and billing users on pay-per-use basis, and are to include web application user interface(s) as well as display and status indicators. The stations will include all hardware, software and mounting hardware required to install a fully functional charging system.

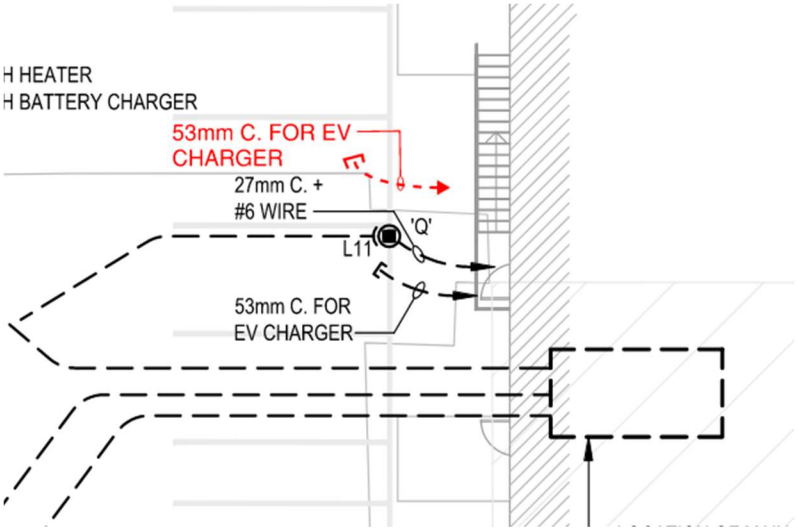
.4 EV charging stations and pedestal mounting hardware shall be supplied from one manufacturer.

2.2 EV CHARGING STATION CONFIGURATIONS

.1 The EV charging stations shall be "commercial" grade, smart Level 2 type and available in the following configurations: Single Output, pedestal mount



.2 Answer: Delete the EV charger from specification section 26-56-21 clause 2.1 and 2.2. Only rough-in (conduits) will be provided. Refer to the image below for additional rough in.



1.17 QUERY #17

.1 Can we please get approval for use of AC90 for branch wiring/general wiring? It would be more cost effective to use AC90 cable instead of EMT.

> Flexible AC90 armoured cabling (BX) **shall not** be used for the general wiring system other than final drops to recessed light fixtures in concealed locations.

.2 Answer: AC90 cable shall not be used for branch/general wiring. Refer to specifications for branch/general wiring requirements.

1.18 QUERY #18

.1 What systems does this 2-hour fire rating apply to below? I assume Fire Alarm system only? Can we confirm this is required for this building? If so, can we use

standard FT4 rated cable installed in conduit to satisfy this requirement?

Cabling indicated to be 2-Hour Fire-Rated shall be compliant to CAN/ULC-S139 and CSA 38-95 (Draka Lifeline, Raychem RHW, or Shawflex). Cabling shall be low smoke halogen free. Conduit to be sized and installed as per manufacturers' requirements for these specialized cables and assemblies regardless of the size indicated on drawings.

.2 Answer: 2-hr rated cable is not required for this project.

1.19 QUERY #19

.1 Specs indicate that Aluminum conductors can only be used where indicated on drawings. All conductors on single line drawing are specified as copper. Are we allowed to substitute copper for aluminum if sized appropriately for the load (including mechanical equipment feeders)? If so, can you confirm the generator conductors can also be substituted for aluminum?

Aluminium conductors only permitted where indicated on drawings and then typically only for feeder conductors larger than 100 A. All conductor sizes indicated on drawings are based on copper conductors unless otherwise noted.

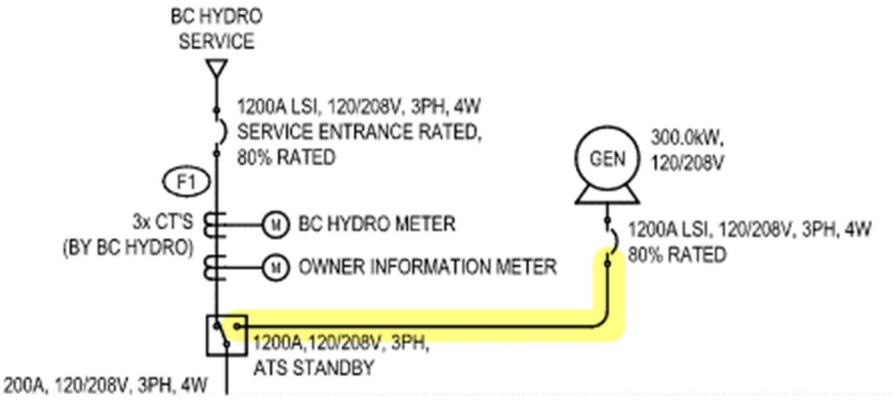
FEEDER SCHEDULE

F1	4x(4#350 Cu. IN 78mm C.)
F2	4#3/0 Cu. IN 41mm C.
F3	2x(4#250/0 Cu. IN 78mm C.)
F4	4#3/0 Cu. IN 41mm C.
F5	4#4 Cu. IN 41mm C.
F6	4#10 Cu. IN 21mm C.
F7	4#2 Cu. IN 53mm C.
F8	4#1 Cu. IN 53mm C.

.2 Answer: Yes, Aluminium conductor can be used in lieu of copper.

1.20 QUERY #20

.1 Please indicate the feeder for generator. I assume this is to be F1?



.2 Answer: Feeder size is revised in the latest single line. Please refer to the revised drawings.

1.21 QUERY #21

.1 In the specs section 27-53-50 is calling for raceway for security, access control, PA, AV however nothing is shown on the electrical drawings that would indicate security, access control, PA, AV rough in required. Can we clarify where these rough ins are required? Please provide door details for any access doors

.2 Answer: Access controls/security systems are not in the scope of work, so no rough-ins.

1.22 QUERY #22

.1 Any consideration for CCTV?

.2 Answer: CCTV not in the scope of work.

1.23 QUERY 23

.1 Can you confirm that the communication is rough in only? On one hand section 27-05-14 would indicate that communication cabling is part of our scope, on the other hand section 27-53-50 (highlighted spec below) would indicate that communication is rough in only.

DASHWOOD FIREHALL REPLACEMENT — Section 27 53 50
230 HOBBS ROAD, QUALICUM BEACH BC — **LOW VOLTAGE SYSTEMS (ROUGH-IN)**
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Part 1 General

1.1 SECTION INCLUDES

1. Supply and installation of raceway only for communications, security, access control, public-address, and audio/visual system.

DASHWOOD FIREHALL REPLACEMENT — Section 27 53 50
230 HOBBS ROAD, QUALICUM BEACH BC — **LOW VOLTAGE SYSTEMS (ROUGH-IN)**
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Part 3 Execution

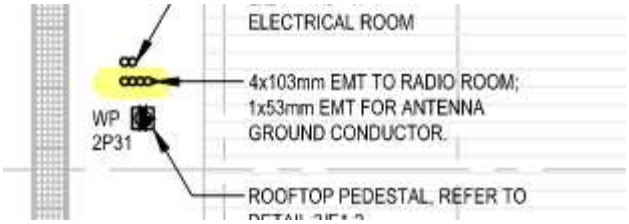
3.1 INSTALLATION

1. Install raceways per drawings and details, including conduits to door strikes contacts and homeruns to electrical room.
2. Provide pull strings in all conduits and mark both ends of conduit with respective termination locations.

.2 Answer: No, provide communication systems components per Div 27 sections and the drawings.

1.24 QUERY #24

.1 Is the installation of the radio antenna on the new building to be included in this proposal? Drawings only indicate 4 – 4" conduits and 1 – 2" conduit to rooftop. No indication of what cabling or grounding to be supplied and installed. If we are to install the antenna, can we get a rough idea of where exactly our scope of work begins/ends. (i.e I imagine termination of radio equipment will be by others, or standing of the antenna on the rooftop will be by others.)



.2 Answer: Only conduits need to be provided. Radio antenna is future scope of work. Refer to latest drawings and addendum 02 for revised number of conduits,

1.25 QUERY #25

.1 Electrical drawings call for card readers, motion detectors and sirens but there is no security specification in the spec package. Will specifications be provided or shall we use our best judgement?

.2 Answer: Security/access control are not in the scope. All the card readers, motion detectors, and sirens to be deleted.

1.26 QUERY #26

.1 There are no alarm keypads indicated on drawings. At least one keypad is required for every alarm partition. How may shall we allow for?

.2 Answer: No intrusion detection system in this scope.

1.27 QUERY #27

.1 Electrical drawings call for card readers on 2 doors but this does not appear to have been captured on the architectural drawings or door hardware schedule. Will electric strikes be covered by Division 08?

.2 Answer: Delete the card readers, not in scope. Access control/security and CCTV are not in the scope.

1.28 QUERY #28

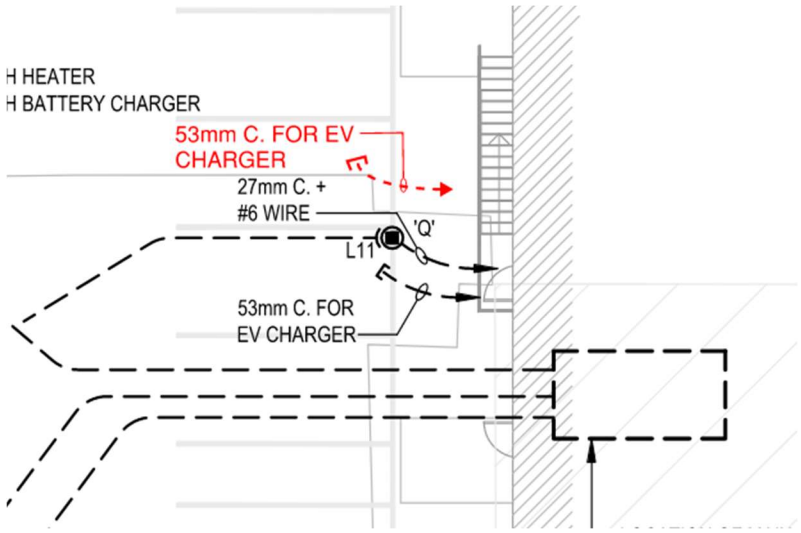
.1 Is a Fire Alarm Auto Dialer Required?

.2 Answer: Yes

PART 2 REFER TO ELECTRICAL DRAWINGS

2.1 DRAWING E1.0 – SITE PLAN, LEGEND, AND DETAILS

.1 Provide an additional 1-53mm C conduit for the EV chargers as shown below:



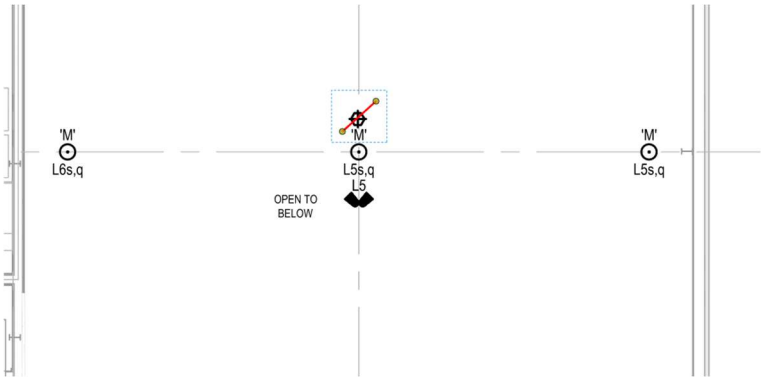
2 Delete all the security symbols from the legend.

2.2 DRAWING E2.0 – LEVEL 1 ELECTRICAL LAYOUTS

.1 Delete all the card readers, motion detectors and intrusion alarm horns from the drawings.

2.3 DRAWING E2.1 – LEVEL 2 ELECTRICAL LAYOUTS

.1 Delete the ceiling mounted vacancy sensor on Apparatus Bay as shown below.



END OF ELECTRICAL ADDENDUM NO. 04