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800 Burrard Street, Room 219
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Vancouver
British Columbia
V6Z 0B9
Bid Fax: (604) 775-9381

**SOLICITATION AMENDMENT
MODIFICATION DE L'INVITATION**

The referenced document is hereby revised; unless otherwise
indicated, all other terms and conditions of the Solicitation
remain the same.

Ce document est par la présente révisé; sauf indication contraire,
les modalités de l'invitation demeurent les mêmes.

Comments - Commentaires

**Vendor/Firm Name and Address
Raison sociale et adresse du
fournisseur/de l'entrepreneur**

Issuing Office - Bureau de distribution
Public Works and Government Services Canada - Pacific
Region
800 Burrard Street, Room 219
800, rue Burrard, pièce 219
Vancouver
British C
V6Z 0B9

Title - Sujet IOS Guardhouse	
Solicitation No. - N° de l'invitation F1700-204430/A	Amendment No. - N° modif. 004
Client Reference No. - N° de référence du client F1700-204430	Date 2020-07-23
GETS Reference No. - N° de référence de SEAG PW-SPWY-041-8790	
File No. - N° de dossier PWY-0-43025 (041)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2020-07-31	
Time Zone Fuseau horaire Pacific Daylight Saving Time PDT	
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Sezginalp (PWY), Kipp	Buyer Id - Id de l'acheteur pwy041
Telephone No. - N° de téléphone (604) 367-5341 ()	FAX No. - N° de FAX (604) 775-6633
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: DFO - Institute of Ocean Science - Sidney, BC	

Instructions: See Herein

Instructions: Voir aux présentes

Delivery Required - Livraison exigée	Delivery Offered - Livraison proposée
Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur	
Telephone No. - N° de téléphone Facsimile No. - N° de télécopieur	
Name and title of person authorized to sign on behalf of Vendor/Firm (type or print) Nom et titre de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)	
Signature	Date

Solicitation No. - N° de l'invitation
F1700-204430

Amd. No. - N° de la modif.
004

Buyer ID - Id de l'acheteur
pwy041

Client Ref. No. - N° de réf. du client

File No. - N° du dossier

CCC No./N° CCC - FMS No./N° VME

Les documents français seront disponibles sur demande.

Solicitation Amendment 004 is raised to issue Addendum 003 and Addendum 004.

1. Please find Addendum 003 and Addendum 004 herein.

All other terms and conditions remain unchanged.

The following Addendum supersedes information contained in drawings and Specifications issued for the project to the extent referenced. The following changes in the tender documents are effective immediately. This Addendum will form part of the contract documents.

1.0 DRAWINGS:

Refer to attached Mechanical Addendum 01, part 1.

2.0 SPECIFICATIONS:

Refer to attached Mechanical Addendum 01, part 2.

3.0 BIDDER QUESTIONS:

3.1 Section 25 05 02 – Integrated Automation, part 1.1.1.1 – Section Scope:

Q1: What is the base building standard?

Q2: What brand/protocol/standards does the base building currently use and required in the new guard house?

Q3: Is the Guard house automation system required to integrate to a current system?

A1-3: refer to attached Mechanical Addendum 01, part 2

3.2 Section 25 05 02 – Integrated Automation, part 2.1.2 – Thermostats:

Q4: What is the building standard type?

Q5: What brands are acceptable?

A4-5: Refer to attached Mechanical Addendum 01, part 2

End of Addendum 03

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.

1. DRAWINGS – MECHANICAL

1.1 Drawing No.: 0.20

- .1 MOTORLIST:
 - .1 Revise CU-1 Electrical load – MCA=15.8
 - .2 Add: Cu-2 Electrical load – MCA=15.8 all other information identical to CU-1
 - .3 Revise FC-1 – Powered by Outdoor unit CU-1
 - .4 Revise FC-2 – Powered by Outdoor unit CU-1
 - .5 Revise FC-3 – Powered by Outdoor unit CU-2
 - .6 Revise FC-4 – Powered by Outdoor unit CU-2
 - .7 Add: MISC: DDC temperature sensors – location – one in data room, electrical room, meeting room, guard room
 - .8 Add Note 2 All DDC integration and controls to be compatible with Delta Controls
- .2 VRF CONDENSING OUTDOOR UNIT Schedule:
 - .1 Add :CU-1 Heat Pump – Wall Mounted – MFG Daikin model 2MXS18NMVJU dim-735x869x320 weight 55.9kg Pwr-208-230/60/1 cooling 5.2kw heating 5.5kw
 - .2 ADD: CU-2 Heat Pump – Wall Mounted – MFG Daikin model 2MXS18NMVJU dim-735x869x320 weight 55.9kg Pwr-208-230/60/1 cooling 5.2kw heating 5.5kw
 - .3 Clarification: CU-1 to connect to FC-1 (Meeting room 104) and FC-2 (Security Control Room 106)
 - .4 Clarification: CU-2 to connect to FC-3 (Elex 101) and FC-4 (Data Room 102)
- .3 FAN COIL UNIT SCHEDULE
 - .1 Revise: FC-1 Model No CDXS07LVJU weight 21.3kg air flow (H/L)143/111 l/s heating cap 2kw cooling cap 2.0kw
 - .2 Revise: FC-2 Model No FFQ09Q2VJU weight 16kg air flow (H/L)188/127 l/s heating cap 2.9kw cooling cap 2.6kw
 - .3 Revise: FC-3 Model No CDXS07LVJU weight 21.3kg air flow (H/L)143/111 l/s heating cap 2kw cooling cap 2.0kw
 - .4 Revise: FC-4 Model No FDMQ12RVJU weight 29 kg air flow (H/L)185/129.8 l/s heating cap 3.9kw cooling cap 3.1kw
 - .5 ADD: note 5 (All units): units to have DDC interface compatibility with Delta Controls (Provide Daikin Group Control Adapter KRP4A71/72/73/74 for indoor units specified)
 - .6 ADD: Note 6 (Unit 2 only)– cassette to be provided with decoration panel BYFQ60B3W1
 - .7 Add note 7 (FC2 and 4 only) To be supplied with controller model # BRC1E73
 - .8 Add note 1 (FC1 and 3 only) To be supplied with controller model # BRC944B2-A08
- .4 FAN SCHEDULE

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.

- .1 ADD: Note 5 - Fans to have DDC points to allow for status and remote shut down from main building

1.2 Drawing No.: 4.10

- .1 ADD:
 - .1 CU-2 to be located beside CU-1 near gridline 5/B

2. SPECIFICATIONS – MECHANICAL

2.1 Section: 25 05 02 – integrated automation

- .1 Item No.: 2.1 thermostats
 - .1 revise: 2.1.2 provide new thermostats from same supplier/manufacturer as heat pump , system to be compatible with delta controls to allow for integration with main building DDC system.
 - .2 Provide DDC connection for Heat Pump status and emergency shutdown (Provide Daikin Group Control Adapter KRP4A71/72/73/74 for indoor units specified)

END OF MECHANICAL ADDENDUM NO. 1

The following Addendum supersedes information contained in drawings and Specifications issued for the project to the extent referenced. The following changes in the tender documents are effective immediately. This Addendum will form part of the contract documents.

1.0 DRAWINGS:

- 1.1 Drawing E110: Delete Electrical Drawing E110, Rev. 1. Replace with Electrical Drawing E110, Rev. 2.
 - 1.1.1 Accessible washroom door controls added.
 - 1.1.2 Extent of surface raceway at desk modified.
 - 1.1.3 Keynotes modified.
- 1.2 Drawing E111:
 - 1.2.1 Delete Keynote 3 "Install data cabling and leave coiled in cable tray with 3m of slack, for future connection to patch panel in security data rack"
 - 1.2.2 Insert Keynote 3: "All data cabling installed in tray shall be coiled above data rack location with a minimum of 3m of slack, for connection in rack by others. This contractor shall terminate and test all data cabling installed as part of this contract."
- 1.3 Drawing E515: Delete Electrical Drawing E515, Rev. 0. Replace with Electrical Drawing E515, Rev. 1.
 - 1.3.1 Accessible washroom door control detail added.

2.0 SPECIFICATIONS:

- 2.1 Section 27 05 10 – Testing and Commissioning
 - 2.1.1 Delete article 3.4.2.2 "CCTV"
 - 2.1.2 Delete article 3.4.2.4 "Security"

3.0 BIDDER QUESTIONS:

- 3.1 Q: Page E110 note 16 states all data lines are to be SSC unless noted otherwise. And that they are to be installed by other (rough in only). Is the electrical Contractor to supply anything other than rough in for this project? Racks equipment cables terminations or just conduit, cable tray, and blank covers? I will supply rough in only as per note 16 on E110. Please clarify if otherwise.

A: Provide rough-in only as indicated. Where identified by keynote 19, also provide cables, terminations, and data outlets as required. All other data work shall be completed by Shared Services Canada. Provide data rack, horizontal PDU, UPS and electrical bonding only as indicated in drawings.

- 3.2 Q: Page E110 Note 3 – What do we need to allow for this

A: This note is for information only. All work associated with these two access controllers is by others.

3.3 Q: Security room 107 indicates two ceiling mounted receptacles, but two floor mounted data in the same location, please confirm if this is correct & if not what is required in these locations.

A: All symbols shown on the drawing are for ceiling mount receptacles and data. No floor mount symbols are shown.

3.4 Q: Note 15 – Does not appear on the drawing, please confirm location if needed.

A: Note 15 is shown on Area Enlargement 1 of drawing E110.

3.5 Q: It seems like this is a generic spec for testing as the section is not specific to this project and covers testing of equipment that is not part of this project. Could they clarify what components of electrical they would like tested so I don't overshoot on it?

A: All equipment installed as part of this project shall be tested as per specification section 26 05 10 Testing and Commissioning.

End of Addendum 04

NOTES:

- 1 POWER DOOR OPERATOR. ALLOW FOR ALL CONDUIT AND INTERLOCK REQUIRED TO CONDUCT DOOR OPENING BUTTONS WITH DOOR OPERATOR AS REQUIRED FOR A FULLY OPERATIONAL. SCHEDULE REFER TO DRAWING E100 FOR CONNECTION DETAILS.
- 2 PROVIDE ONE (1) HANTECH KT400 ACCESS CONTROLLER INSTALLED ON PLYWOOD BACKING FOR GUARDHOUSE DOORS. PROVIDE CAT6 CABLE FROM THIS LOCATION BACK TO SSC DATA RACK ROOM. PROVIDE TERMINATION ON BOTH ENDS AND CONNECT CABLE TO KT400 AND PATCH PANEL. COORDINATE CONNECTION WITH SSC.
- 3 PROVIDE ONE (1) HANTECH KT400 ACCESS CONTROLLER INSTALLED ON PLYWOOD BACKING. CONTROLLERS PROVIDED BY OTHERS.
- 4 EXTERNAL POWER SUPPLIES FOR LONG-RANGE CARD READERS (BY OTHERS).
- 5 PROVIDE ONE (1) HANTECH KT400 ACCESS CONTROLLER INSTALLED ON PLYWOOD BACKING FOR GUARDHOUSE DOORS. PROVIDE CAT6 CABLE FROM THIS LOCATION BACK TO SSC DATA RACK ROOM. PROVIDE TERMINATION ON BOTH ENDS AND CONNECT CABLE TO KT400 AND PATCH PANEL. COORDINATE CONNECTION WITH SSC.
6. NOT USED
7. REFER TO DRAWING E111 FOR COMMUNICATIONS CABLE TRAY ROUTING.
8. PROVIDE SPACE FOR FUTURE FIRE ALARM CONDUCTORS. STUB UP INTO DATA ROOM AND CAP OFF.
9. PROVIDE SPACE FOR FUTURE SECURITY AND TELECOMMUNICATIONS CONDUCTORS UP EAST WALL OF DATA ROOM TO CABLE TRAY.
10. PROVIDE 103mm CONDUIT SLEAVE THROUGH WALL FOR SHARED SERVICES STRUCTURED WIRING TO GUARDHOUSE. ROUTE CONDUCTORS UP EAST WALL OF DATA ROOM TO CABLE TRAY.
11. PROVIDE 103mm CONDUIT SLEAVE THROUGH WALL FOR SHARED SERVICES STRUCTURED WIRING TO GUARDHOUSE. ROUTE CONDUCTORS UP EAST WALL OF DATA ROOM TO CABLE TRAY.
12. PROVIDE 103mm CONDUIT SLEAVE THROUGH WALL FOR SHARED SERVICES STRUCTURED WIRING TO GUARDHOUSE. ROUTE CONDUCTORS UP EAST WALL OF DATA ROOM TO CABLE TRAY.
13. PROVIDE 103mm CONDUIT SLEAVE THROUGH WALL FOR SHARED SERVICES STRUCTURED WIRING TO GUARDHOUSE. ROUTE CONDUCTORS UP EAST WALL OF DATA ROOM TO CABLE TRAY.
14. PROVIDE 103mm CONDUIT SLEAVE THROUGH WALL FOR SHARED SERVICES STRUCTURED WIRING TO GUARDHOUSE. ROUTE CONDUCTORS UP EAST WALL OF DATA ROOM TO CABLE TRAY.
15. PROVIDE 103mm CONDUIT SLEAVE THROUGH WALL FOR SHARED SERVICES STRUCTURED WIRING TO GUARDHOUSE. ROUTE CONDUCTORS UP EAST WALL OF DATA ROOM TO CABLE TRAY.
16. PROVIDE 103mm CONDUIT SLEAVE THROUGH WALL FOR SHARED SERVICES STRUCTURED WIRING TO GUARDHOUSE. ROUTE CONDUCTORS UP EAST WALL OF DATA ROOM TO CABLE TRAY.
17. PROVIDE 103mm CONDUIT SLEAVE THROUGH WALL FOR SHARED SERVICES STRUCTURED WIRING TO GUARDHOUSE. ROUTE CONDUCTORS UP EAST WALL OF DATA ROOM TO CABLE TRAY.
18. PROVIDE 103mm CONDUIT SLEAVE THROUGH WALL FOR SHARED SERVICES STRUCTURED WIRING TO GUARDHOUSE. ROUTE CONDUCTORS UP EAST WALL OF DATA ROOM TO CABLE TRAY.
19. PROVIDE 103mm CONDUIT SLEAVE THROUGH WALL FOR SHARED SERVICES STRUCTURED WIRING TO GUARDHOUSE. ROUTE CONDUCTORS UP EAST WALL OF DATA ROOM TO CABLE TRAY.
20. PROVIDE 103mm CONDUIT SLEAVE THROUGH WALL FOR SHARED SERVICES STRUCTURED WIRING TO GUARDHOUSE. ROUTE CONDUCTORS UP EAST WALL OF DATA ROOM TO CABLE TRAY.
21. PROVIDE 103mm CONDUIT SLEAVE THROUGH WALL FOR SHARED SERVICES STRUCTURED WIRING TO GUARDHOUSE. ROUTE CONDUCTORS UP EAST WALL OF DATA ROOM TO CABLE TRAY.

DETAIL 1 FLOOR PLAN
1:50

AREA ENLARGEMENT 1 DATA AND SHARED SERVICES ROOMS
1:20

**ISSUED FOR TENDER
NOT FOR CONSTRUCTION**

ALL EQUIPMENT IS PROPOSED
UNLESS NOTED OTHERWISE

FISHERIES AND OCEANS CANADA
INSTITUTE OF OCEAN SCIENCES
NEW GUARDHOUSE
9860 WEST SAANICH ROAD
SIDNEY, BC, V8L 5T5
GUARDHOUSE POWER & LOW TENSION (PROPOSED)

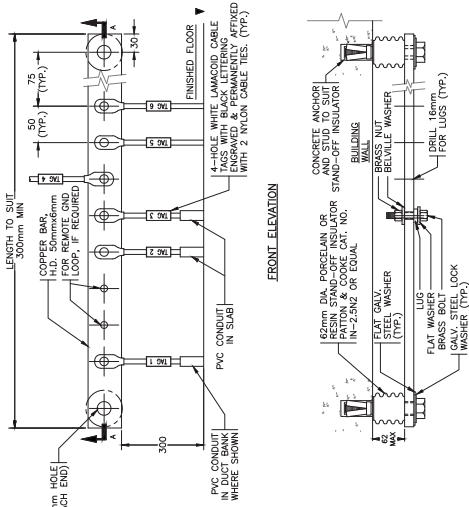
PK	REV	DESCRIPTION	DATE

NO.	DATE	REVISIONS

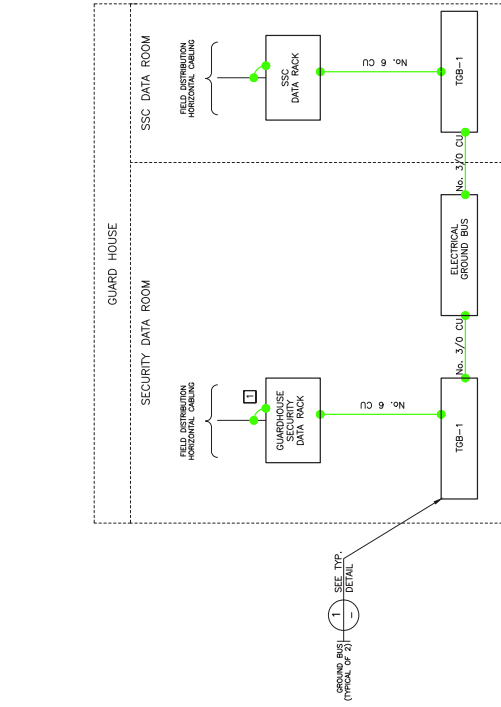
DWG. NO. DRAWING REFERENCES

RATIO P&E ENGINEERING

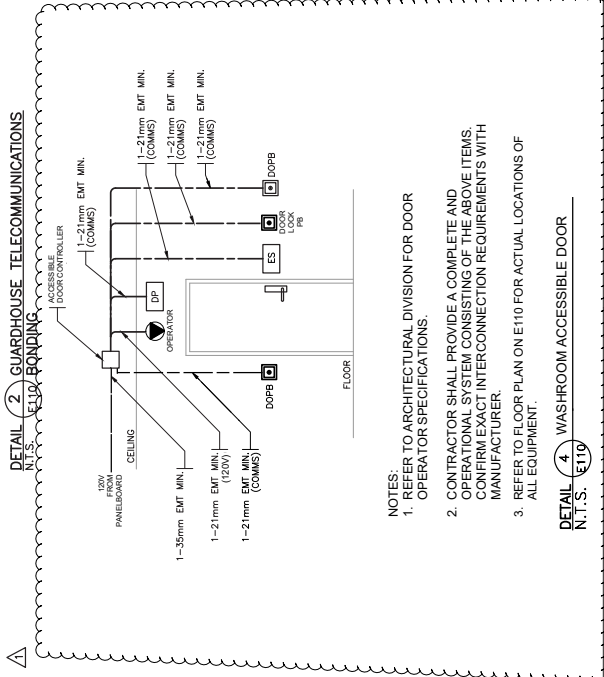
SCALE AS NOTED
START DATE
DRAWING NUMBER **E110**
5 OF 11
REVISION 2



DETAIL 1 E119 GROUNDING INSTALLATION DETAILS
N.T.S. - TYP.



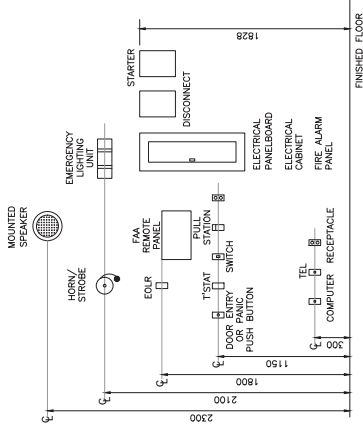
DETAIL 2 GUARDHOUSE TELECOMMUNICATIONS
N.T.S. - E119



DETAIL 3 TYPICAL MOUNTING HEIGHTS
N.T.S. - TYP.

DETAIL 4 WASHROOM ACCESSIBLE DOOR
N.T.S. - E119

- NOTES:**
1. ALL EQUIPMENT TO BE PROVIDED NEW UNLESS NOTED OTHERWISE.
 2. ALL GROUNDING AND BONDING CONDUCTORS SHALL BE GREEN-JACKETED UNLESS NOTED OTHERWISE.
 3. FOR NEW CABLE TRAY WITHIN ROOMS HOUSING RACK EQUIPMENT, BOND NO. 6 CONDUCTOR TWICE PER MECHANICAL SECTION.



NOTES:

1. ALIGN ALL EQUIPMENT VERTICALLY AND HORIZONTALLY.

DETAIL 3 TYPICAL MOUNTING HEIGHTS
N.T.S. - TYP.



**ISSUED FOR TENDER
NOT FOR CONSTRUCTION**

ALL EQUIPMENT IS PROPOSED
UNLESS NOTED OTHERWISE

FISHERIES AND OCEANS CANADA
INSTITUTE OF OCEAN SCIENCES
NEW GUARDHOUSE
9860 WEST SAANICH ROAD
SIDNEY, BC, V8L 5T5

SCALE: AS NOTED
START DATE: E515
DRAWING NUMBER: 10 OF 11
REVISION: 11

NO.	DATE	REVISIONS
1		ISSUED FOR TENDER
2		ISSUED FOR TENDER
3		ISSUED FOR TENDER
4		ISSUED FOR TENDER
5		ISSUED FOR TENDER
6		ISSUED FOR TENDER
7		ISSUED FOR TENDER
8		ISSUED FOR TENDER
9		ISSUED FOR TENDER
10		ISSUED FOR TENDER
11		ISSUED FOR TENDER

RATIO P&E ENGINEERING

DWG. NO. DRAWING REFERENCES

NO. DATE

REVISIONS