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## 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

Electrical & Electronics Products Division  
L'Esplanade Laurier  
East Tower, 4th floor,  
Ottawa  
Ontario  
K1A 0S5

<b>Title - Sujet</b> WRI office fitup project	
<b>Solicitation No. - N° de l'invitation</b> E62ZR-212805/A	<b>Amendment No. - N° modif.</b> 005
<b>Client Reference No. - N° de référence du client</b> 20212805	<b>Date</b> 2021-10-12
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$\$HN-331-80357	
<b>File No. - N° de dossier</b> hn331.E62ZR-212805	<b>CCC No./N° CCC - FMS No./N° VME</b>
<b>Solicitation Closes - L'invitation prend fin</b> <b>at - à 02:00 PM</b> Eastern Daylight Saving Time EDT <b>on - le 2021-10-25</b> Heure Avancée de l'Est HAE	
<b>F.O.B. - F.A.B.</b> <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input checked="" type="checkbox"/> <b>Other-Autre:</b> <input type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Turner, Louie	<b>Buyer Id - Id de l'acheteur</b> hn331
<b>Telephone No. - N° de téléphone</b> (613) 297-3769 ( )	<b>FAX No. - N° de FAX</b> ( ) -
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b>	

Instructions: See Herein

Instructions: Voir aux présentes

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

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**Solicitation amendment 005 is issued to answer potential bidders' questions, to remove Clickshare units in room type 7 and to update appendix A – Room List.**

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1. Questions and Answers, All questions appear in their original format and language. The T.A's response appears in red.

**Question #1**

Please advise of the desired make and model for the ceiling (tile) audio microphone. Due to the variety of make/models available (Shure, Sennheiser, Biamp, etc.) this could provide wildly different quotations from AV contractors.

**Answer #1:**

Microphones (ceiling tile) such as the Shure MXA910W or equivalent are the desired make/models. The Room List specifications have been updated accordingly.

**Question #2**

LG displays – The specified UU series is discontinued. Please confirm that the UR series is an acceptable replacement.

**Answer #2:**

As per amendment #3: Due to an internal review, the Room List specifications have been updated to list Panasonic displays instead of LG.

**Question #3**

For all Jabra 710 speakerphones, please advise as to how the intended unit's charging will be handled. Is the intention of this device to be placed in a secure mount and permanently wired for charging purposes? If so, please confirm that appropriate power outlet will be available at or below the table for this purpose.

**Answer #3:**

The Jabra speakers will be managed by an individual onsite; they will be responsible for ensuring proper charging and locking of the units. Therefore nothing other than providing the speakers is required as part of this RFP.

**Question #4**

Crestron Control Processors – BoM lists CP3N. This product SKU is no longer available, replaced by the CP4N. Please confirm this is an acceptable replacement.

**Answer #4:**

Yes, this is an acceptable replacement. The Room List specifications have been updated accordingly.

**Question #5**

Crestron Touch Panels – The TSW-\*60 series is no longer available, replaced by the TSW-\*70 series (for wall mount applications) and TS-\*70 (for table top applications). Please confirm this is an acceptable replacement.

**Answer #5:**

Yes, this is an acceptable replacement. The Room List specifications have been updated accordingly.

**Question #6**

For all ceiling mounted displays (Teaming Area B & Kitchen/Lounge), please advise of the ceiling heights and desired height to middle of the display AFF.

**Answer #6:**

Ceiling heights are approximately 12 ft. Installation should be 85 inches AFF to the center of the display where possible.

**Question #7**

For the Extron Cable Cubby Configurations, only Type 5.2 and type 6 has the CAT6 cable retractor part 70-1065-03. Please confirm this is not required for Type 5.1 or Type 5.3.

**Answer #7:**

Yes, it is required for Type 5.1 and Type 5.3. The Room List specifications have been updated accordingly.

**Question #8**

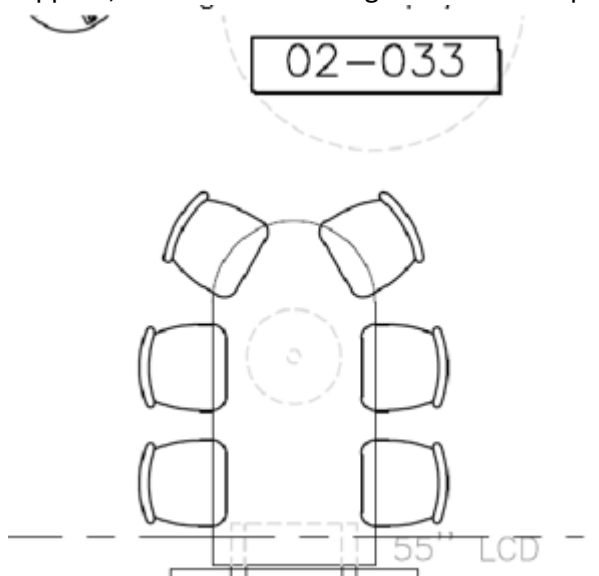
Network – Annex B – Multi-trade Responsibility Chart identifies AV Data drop cabling and connectivity (pertaining to AV equipment) is by Departmental Representative. Please confirm if every AV device requiring network connectivity will have an AV data drop by others, or will there be a single drop per location/room and if required AV will supply a network switch to manage multiple network requirements in the single location.

**Answer #8:**

All drops will be in the telecom rooms, no additional cabling related to data drops is required from the vendor.

**Question #9**

Type 1.1 – Work Room A – the written BoM and description state a 43" display are to be supplied, however the drawings show a 55" display. Please advise as to the correct size required.



**Answer #9:**

The drawings supplied were those of the Designer and what they assumed would be present in the space at the time of the layout design, the Room List is and remains the true source of desired products; therefore, room 02-033 requires a 43" display.

**Question #10**

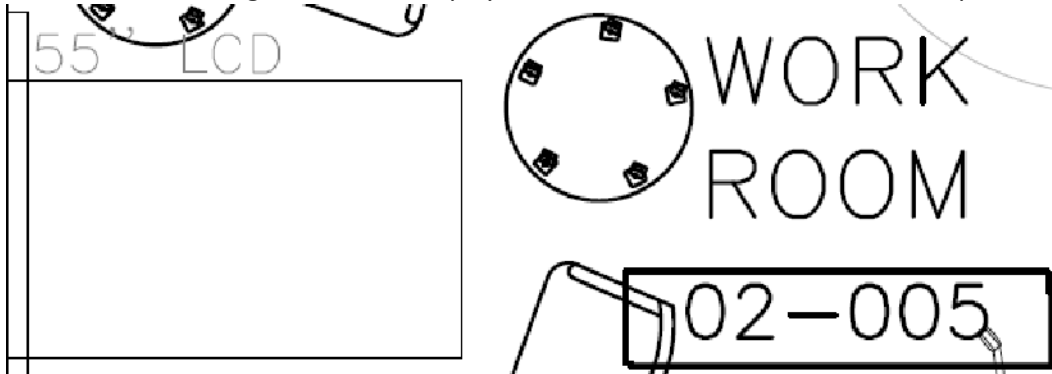
Type 1.1 – Work Room A. Displays are to be mounted to height adjustable work table. Please advise as to whom will be providing and installing this mounting system.

**Answer #10:**

The media table comes with the mount. The vendor is responsible for mounting the display on the provided table mount.

**Question #11**

Type 1.2 – Work Room B - the written BoM and description state a 43" display is to be supplied, however the drawings show a 55" display. Please advise as to the correct size required.



**Answer #11:**

The drawings supplied were those of the Designer and what they assumed would be present in the space at the time of the layout design, the Room List is and remains the true source of desired products; therefore, all rooms of type Work Room B require a 43" display.

**Question #12**

Type 2.3 – Project Room C written description lists a 40" display. This is not a valid SKU. The drawing shows a 43" display. Please advise if the LG 43" 43UR340C is an acceptable replacement.

**Answer #12:**

The drawings supplied were those of the Designer and what they assumed would be present in the space at the time of the layout design, the Room List is and remains the true source of desired products; therefore, please refer to amendment #3 where the updated Room List has been provided (Project Room C requires a 55" display as well as a 40" display).

**Question #13**

Type 2.3 – Project Room C - In addition to above, the written description for this room does not list a 2<sup>nd</sup> display (55"), nor is this shown on the drawing. Please advise to the intent of this display, how users will connect, and where/how this is to be mounted.

**Answer #13:**

The drawings supplied were those of the Designer and what they assumed would be present in the space at the time of the layout design, the Room List is and remains the true source of desired products; therefore, please refer to amendment #3 where the updated Room List has been provided (Project Room C requires a 55" display as well as a 40" display). The 55" display will be located above the work table on the right hand wall (when looking at the plan) and users will connect using the Clickshare unit.

**Question #14**

Type 2.3 – Project Room C – lists an Extron cable cubby installed in the table. Please advise of the cable path/length from the table to the display's HDMI input.

**Answer #14:**

The cable path is approximately 4ft on the underside of the table.

**Question #15**

Type 2.3 – Project Room C – further to above, please confirm that the required table cut out for the Extron cable cubby will be provided by the furniture manufacturer in coordination with the AV Contractor's supplied cut out template.

**Answer #15:**

Confirmed, the table cut-outs will be done by the furniture manufacturer with the AV supplied template.

**Question #16**

Type 2.4 – Project Room D – Provided BoM lists Type 2.2. Please confirm if this is the correct BoM for this room type.

## **6. Type 2.4**

Rooms 02-019,  
03-023

**TYPE 2.2**

**Answer #16:**

This is an error in the Room List document (English version only), Type 2.4 is indeed 2.4, not 2.2. The (EN) Room List has been updated accordingly.

**Question #17**

Type 2.4 – Project Room D – If the above BoM is indeed correct, the provided BoM lists a 55" display however a 65" display is shown on the drawings. Please confirm the intended display

size for this room type.



**Answer #17:**

The drawings supplied were those of the Designer and what they assumed would be present in the space at the time of the layout design, the Room List is and remains the true source of desired products; therefore, Project Room D requires a 55" display.

**Question #18**

Type 2.4 – Project Room D. Displays are to be mounted to height adjustable work table. Please advise as to whom will be providing and installing this mounting system.

**Answer #18:**

The media table comes with the mount. The vendor is responsible for mounting the display on the provided table mount.

**Question #19**

Type 3.2 – Teaming Area B – As per the written BoM, this shows a 55" display (per Add #1) is to be ceiling mounted on a pole, however the drawings show this to be a 65" (55" per Add#1) display on a cart. Please advise to the intended mounting style required.



**Answer #19:**

The drawings supplied were those of the Designer and what they assumed would be present in the space at the time of the layout design, the Room List is and remains the true source of desired products; therefore, Teaming Area B requires a 55" display, to be ceiling mounted.

**Question #20**

Type 3.3 - Teaming Area C - Provided BoM lists Type 3.1. Please confirm if this is the correct BoM for this room type.

## 9. Type 3.3 – TEAMING AREA C

Rooms 02-011C, 02-030,  
03-011C, 03-027B, 03-031,  
04-023

### TYPE 3.1

**Answer #20:**

This is an error in the Room List document (English version only), Type 3.3 is indeed 3.3, not 3.1. The (EN) Room List has been updated accordingly.

**Question #21**

Type 3.3 – Teaming Area C / Multi-purpose room – Provided BoM lists a 55” display however drawings show a 65” display. Please advise to the desired display size.

**Answer #21:**

The drawings supplied were those of the Designer and what they assumed would be present in the space at the time of the layout design, the Room List is and remains the true source of desired products; therefore, Teaming Area C requires a 55” display.

**Question #22**

Type 4 – Training Room – Provided BoM lists an 85” display. LG no longer provides displays of this size. Please confirm the 86” 86UR340C is an acceptable replacement.

**Answer #22:**

As per amendment #3: Due to an internal review, the Room List specifications have been updated to list Panasonic displays instead of LG. Please refer to the updated Room List.

**Question #23**

Type 4 – Training Room – As per room description, a requirement for audio conferencing is required however there is no DSP listed as a requirement in this room type. Please advise if the Biamp DSP listed in other room types shall be carried in this room type.

**Answer #23:**

Yes, it is required. The Room List specifications have been updated accordingly.

**Question #24**

Type 4 – Training room – As per the room description and room list, an in-ceiling (tile) audio microphone is required. Is it to be expected that this microphone will displace a 2x2 ceiling tile or is a ceiling mounted preferred (Biamp Parle)?

**Answer #24:**

Yes, the microphone will displace a tile.

**Question #25**

Type 4 – Training Room – As per the room list, a Crestron DM controller is required, please confirm a Crestron model number for the unit requested.

**Answer #25:**

Please propose an appropriate DM based on the room requirements (microphones, speakers, processing, etc.).

**Question #26**

Type 4 – Training Room – What is the intent for mounting of the amplifier, DSP, and Crestron controller. Will this room require an equipment rack? If so, will a credenza be supplied for this equipment rack, should it be stand-alone, or will it be provided by others?

**Answer #26:**

All non-visible components will be in the telecom room, please provide the appropriate rack size in your quotes.

**Question #27**

Type 4 – Training Room – As per the room list, an HDMI wall plate is required on the same wall of the display. Will the infrastructure support a direct HDMI connection (large conduit, direct path) or is an HDMI wall plate extender required?

**Answer #27:**

A wall plate is required for finishing and plug/play.

**Question #28**

Type 5.1 - Medium Meeting room A – With VC – As per the room list, a TesiraCONNECT is required. This is an AVB expander, please confirm if this is required (microphone may be AVB, but not specified, amplifier is currently analog model).

**Answer #28:**

Please quote the appropriate DSP as per room functionality requirements.

**Question #29**

Type 5.1 - Medium Meeting room A – With VC – As per the room description and room list, an in-ceiling (tile) audio microphone is required. Is it to be expected that this microphone will displace a 2x2 ceiling tile or is a ceiling mounted preferred (Biamp Parle)?

**Answer #29:**

Yes, the microphone will displace a tile.

**Question #30**

Type 5.1 - Medium Meeting room A – With VC – As per the room list, the speaker model chosen was designed to use with the AMP-A460BP amplifier, however can also be used with a standard model. Please confirm the AMP-A460H model is correct?

**Answer #30:**

Please quote the most efficient model based on room functionality.

**Question #31**

TYPE 5.1 - Medium Meeting room A – With VC – The government supplied Cisco Room Kit Plus comes with a table mount touchpanel, please confirm if this will be used on the table for



codec control and if an AV data drop will be provided or if the AV Contractor needs to pull a cable to the codec.

**Answer #31:**

No, the room list includes Crestron touch panel (DM) that will be used.

**Question #32**

TYPE 5.1 - Medium Meeting room A – With VC – As per the room list, a video switching and distribution system is not specified to manage the 2 table inputs, the Clickshare, and the codec switching to the display and the codec content input. Please confirm if a certain manufacturer is required or if it should be proposed.

**Answer #32:**

Please quote the most efficient model based on room functionality.

**Question #33**

TYPE 5.1 - Medium Meeting room A – With VC – What is the intent for mounting of the amplifier, DSP, codec, and Crestron controller. Will this room require an equipment rack? If so, will a credenza be supplied for this equipment rack, should it be stand-alone, or will it be provided by others? If supplied by others please provide racking type and height.

**Answer #33:**

All non-visible components will be in the telecom room, please provide the appropriate rack size in your quotes.

**Question #34**

Type 5.2 - Medium Meeting room B – As per the room list, a TesiraCONNECT is required. This is an AVB expander, please confirm if this is required (microphone may be AVB, but not specified, amplifier is currently analog model).

**Answer #34:**

Please quote the appropriate DSP as per room functionality requirements.

**Question #35**

Type 5.2 - Medium Meeting room B – As per the room description and room list, an in-ceiling (tile) audio microphone is required. Is it to be expected that this microphone will displace a 2x2 ceiling tile or is a ceiling mounted preferred (Biamp Parle)?

**Answer #35:**

Yes, the microphone will displace a tile.

**Question #36**

Type 5.2 - Medium Meeting room B – As per the room list, the speaker model chosen was designed to use with the AMP-A460BP amplifier, however can also be used with a standard model. Please confirm the AMP-A460H model is correct?

**Answer #36:**

Please quote the appropriate amplifier as per room functionality requirements.

**Question #37**

Type 5.2 - Medium Meeting room B – As per the room list, a video switching and distribution system is not specified to manage the 2 table inputs, the Clickshare, to the display. Please confirm if a certain manufacturer is required or if it should be proposed.

**Answer #37:**

Please quote the most efficient model based on room functionality.

**Question #38**

Type 5.2 - Medium Meeting room B – What is the intent for mounting of the amplifier, DSP, and Crestron controller. Will this room require an equipment rack? If so, will a credenza be supplied for this equipment rack, should it be stand-alone, or will it be provided by others? If supplied by others please provide racking type and height.

**Answer #38:**

All non-visible components will be in the telecom room, please provide the appropriate rack size in your quotes.

**Question #39**

Type 5.3 - Medium Accessible Meeting Room C – With VC – As per the room list, a TesiraCONNECT is required. This is an AVB expander, please confirm if this is required (microphone may be AVB, but not specified, amplifier is currently analog model).

**Answer #39:**

Please quote the appropriate DSP as per room functionality requirements.

**Question #40**

Type 5.3 - Medium Accessible Meeting Room C – With VC – As per the room description and room list, two in-ceiling (tile) audio microphones are required. Is it to be expected that this microphone will displace a 2x2 ceiling tile or is a ceiling mounted preferred (Biamp Parle)?

**Answer #40:**

Yes, the microphone will displace a tile.

**Question #41**

Type 5.3 - Medium Accessible Meeting Room C – With VC – As per the room list, the speaker model chosen was designed to use with the AMP-A460BP amplifier, however can also be used with a standard model. Please confirm the AMP-A460H model is correct?

**Answer #41:**

Please quote the most efficient model based on room functionality.

**Question #42**

Type 5.3 - Medium Accessible Meeting Room C – With VC – The government supplied Cisco Room Kit Plus comes with a table mount touchpanel, please confirm if this will be used on the table for codec control and if an AV data drop will be provided or if the AV Contractor needs to pull a cable to the codec.

**Answer #42:**

No, the room list includes Crestron touch panel (DM) that will be used.

**Question #43**

Type 5.3 - Medium Accessible Meeting Room C – With VC – As per the room list, a wireless touchpanel panel (wall mounted) is required, however the model number carried (TSW-1060-NC-B-S) is not a wireless touchpanel. Please confirm if wired or wireless is required and what accessories are required if the unit is wireless (wall mount, RF gateway).

**Answer #43:**

Yes, a wall mounted, wireless model is required, correct part number is TST-902-DSW. The Room List specifications have been updated accordingly.

**Question #44**

Type 5.3 - Medium Accessible Meeting Room C – With VC – As per the room list, a video switching and distribution system is not specified to manage the 6 table inputs, the Clickshare, and the codec switching to the three displays and the codec content input. Please confirm if a certain manufacturer is required or if it should be proposed.

**Answer #44:**

Please quote the most efficient model based on room functionality.

**Question #45**

Type 5.3 - Medium Accessible Meeting Room C – With VC – Please confirm the utilizations of the 3 displays in this room, will they all get the same signal or should they have the ability to get different signals.

**Answer #45:**

They require the ability to get different signals.

**Question #46**

Type 5.3 - Medium Accessible Meeting Room C – With VC – What is the intent for mounting of the amplifier, DSP, codec, and Crestron controller. Will this room require an equipment rack? If so, will a credenza be supplied for this equipment rack, should it be stand-alone, or will it be provided by others? If supplied by others please provide racking type and height.

**Answer #46:**

All non-visible components will be in the telecom room, please provide the appropriate rack size in your quotes.

**Question #47**

Type 6 – Large Meeting Room – With VC – As per the room list, a TesiraCONNECT is required. This is an AVB expander, please confirm if this is required (microphone may be AVB, but not specified, amplifier is currently analog model).

**Answer #47:**

Please quote the appropriate DSP as per room functionality requirements.

**Question #48**

Type 6 – Large Meeting Room – With VC – As per the room description and room list, two in-ceiling (tile) audio microphones are required. Is it to be expected that this microphone will displace a 2x2 ceiling tile or is a ceiling mounted preferred (Biamp Parle)?

**Answer #48:**

Yes, the microphone will displace a tile.

**Question #49**

Type 6 – Large Meeting Room – With VC – As per the room list, the speaker model chosen was designed to use with the AMP-A460BP amplifier, however can also be used with a standard model. Please confirm the AMP-A460H model is correct?

**Answer #49:**

Please quote the most efficient model based on room functionality.

**Question #50**

Type 6 – Large Meeting Room – With VC – As per the room list, there are 10 speakers and only 1 amplifier. The specified amplifier is rated for 4 or 8 ohm and putting more than 2 on each channel will produce an impedance less than 4 ohms. Please confirm if 2 or 3 amplifiers should be provided.

**Answer #50:**

Please quote the number of amplifiers required to provide an efficient solution.

**Question #51**

Type 6 – Large Meeting Room – With VC – The government supplied Cisco Room Kit Plus comes with a table mount touchpanel, please confirm if this will be used on the table for codec control and if an AV data drop will be provided or if the AV Contractor needs to pull a cable to the codec.

**Answer #51:**

No, the room list includes Crestron touch panel (DM) that will be used.

**Question #52**

Type 6 – Large Meeting Room – With VC – As per the room list, a wireless touchpanel panel (wall mounted) is required, however the model number carried (TSW-1060-NC-B-S) is not a wireless touchpanel. Please confirm if wired or wireless is required and what accessories are required if the unit is wireless (wall mount, RF gateway).

**Answer #52:**

Yes, a wall mounted, wireless model is required, correct part number is TST-902-DSW. The Room List specifications have been updated accordingly.

**Question #53**

Type 6 – Large Meeting Room – With VC – As per the room list, a video switching and distribution system is not specified to manage the 8 table inputs, the Clickshare, and the codec switching to the 4 displays and the codec content input. Please confirm if a certain manufacturer is required or if it should be proposed.

**Answer #53:**

Please quote the most efficient model based on room functionality.

**Question #54**

Type 6 – Large Meeting Room – With VC – Please confirm the utilizations of the 4 displays in this room, will they all get the same signal or should they have the ability to get different signals.

**Answer #54:**

They require the ability to get different signals.

**Question #55**

Type 6 – Large Meeting Room – With VC – What is the intent for mounting of the amplifier, DSP, codec, and Crestron controller. Will this room require an equipment rack? If so, will a credenza be supplied for this equipment rack, should it be stand-alone, or will it be provided by others? If supplied by others please provide racking type and height.

**Answer #55:**

All non-visible components will be in the telecom room, please provide the appropriate rack size in your quotes.

**Question #56**

Type 7 – Entrance - Provided BoM lists Type 3.1. Please confirm if this is the correct BoM for this room type.

**15. Type 7 – ENTRANCE**

Rooms 02-001,  
03-001,  
04-001

**TYPE 3.1**

**Answer #56:**

This is an error in the Room List document (English version only), Type 7 is indeed 7, not 3.1. The (EN) Room List has been updated accordingly.

**Question #57**

Type 7 – Entrance – 2<sup>nd</sup> and 3<sup>rd</sup> floor drawings do not provide installation location of the display. Please advise as to where this is to be mounted.

**Answer #57:**

The display is to be located at the main entrance, on the wall in front of the double doors (near the coat closet).

**Question #58**

Type 7 – Entrance – 4<sup>th</sup> Floor lists 04-001 as 'Main Entrance / Lockers' and does not show the intended display installation location. Please advise as to where this is to be mounted.

**Answer #58:**

The location has been confirmed as being above the printing station (besides the touchdown stations) in area 04-016.

**Question #59**

Type 7 – Entrance – As per the room descriptions, Functionality includes display of internal PSPC messaging centre. Will the government provide a digital player for this or will this be utilized with the wireless presentation device?

**Answer #59:**

The government will provide a digital player after the project is completed, therefore not part of the work required as part of this RFP.

**Question #60**

Type 7 – Lounge/Kitchen – As per the room descriptions, Functionality includes display of television broadcast. Will the government provide a television player for this or will this be connected via the RF input on the display?

**Answer #60:**

The TV cable installation/player will be provided separately.

**Question #61**

Type 9 – Installation of Desktop Monitors - For desktop monitors and port replicators, please confirm to whom is responsible for all user input and interconnect cabling.

**Answer #61:**

Monitors and port replicators will come with all required cabling.

**Question #62**

Type 9 – Installation of Desktop Monitors - If the expectation for above is for the AV contractor to supply, please provide cable type and length requirements for dual monitor interconnects, and cable type and length for the port replicators.

**Answer #62:**

Monitors and port replicators will come with all required cabling.

**Question #63**

Type 9 – Installation of Desktop Monitors - Please advise to whom is responsible for supply and installation of the required mounting solution for all single, dual, and table backing monitors.

**Answer #63:**

All desktop monitor arms and media table backings will be supplied by the Government.

**Question #64**

Type 9 – Installation of Desktop Monitors – Should it be required that the AV contractor is to supply and install all required monitor mounts, please provide a desired make/model for each style of requested mounting solutions.

**Answer #64:**

All desktop monitor arms and media table backings will be supplied by the Government.

**Question #65**

**Item #2 – Room Type 4:**

One (1) QSC amplifier is specified in the room list, however there is no accompanying model number. Please clarify this requirement, model number?

**Answer #65:**

Please see the updated Room List specifications; an amplifier has been specified.

**Question #66**

**Item #2 – Room Type 4:**

Three (3) pairs of QSC ceiling speakers are specified in the room list, however there is no accompanying model number. Please clarify this requirement, model number?

**Answer #66:**

After review, the speakers required are the Desono C-IC6. The Room List specifications have been updated accordingly.

**Question #67**

**Item #2 – Room Type 4:**

One (1) in-tile ceiling microphone is specified in the room list, however there is no accompanying manufacturer or model number. Please clarify this requirement, model number?

**Answer #67:**

Microphones (ceiling tile) such as the Shure MXA910W or equivalent are the desired make/models. The Room List specifications have been updated accordingly.

**Question #68**

**Item #2 – Room Type 4:**

One (1) Crestron TSW-1060-NC-B-S is specified in the room list. The description next to the item in the room list also notes "Wall-mounted wireless touch panel" – The unit specified is not wireless. Please clarify this requirement, noting that the specified TSW-1060-NC-B-S is also discontinued

**Answer #68:**

After review, the touch panel required is the Crestron TSW-1070-NC-B-S. The Room List specifications have been updated accordingly.

**Question #69**

**Item #2 – Room Type 4:**

One (1) Crestron "DM Controller" is specified, however there is no accompanying model number. Please clarify this requirement

**Answer #69:**

Please propose an appropriate DM based on the room requirements (microphones, speakers, processing, etc.).

**Question #70**

**Item #2 – Room Type 4:**

In the bid spec description of this room type, it is noted that the microphone in the centre of the room is to be used for the teleconference system, however, there is no DSP or full control system specified to accommodate teleconferencing in this room. Please clarify this requirement

**Answer #70:**

A DSP is required. The Room List specifications have been updated accordingly.

**Question #71**

**Item #2 – Room Type 4:**

What is the intention for program audio in this room? With the specified hardware it appears that the video will only have audio support through the display speakers, and not the overhead speakers

**Answer #71:**

A DSP is required. The Room List specifications have been updated accordingly.

**Question #72**

**Item #2 – Room Type 4:**

Please provide system connectivity diagrams to confirm intention for system wiring and interconnections

**Answer #72:**

We do not provide connectivity diagrams. The Room List specifications have been updated due to a number of questions and clarifications. Please consult the updated specifications.

**Question #73**

**Item #3 – Room Types 5.1 and 5.2:**

One (1) Biamp TesiraFORTE is specified in the room list, however there are multiple variants of this product that provide different input counts and network protocols for audio. Please clarify this requirement. Which version is requested?

**Answer #73:**

Please quote the appropriate model as per room functionality requirements.

**Question #74**

**Item #3 – Room Types 5.1 and 5.2:**

One (1) in-tile ceiling microphone is specified in the room list, however there is no accompanying manufacturer or model number. Please clarify this requirement

**Answer #74:**

Microphones (ceiling tile) such as the Shure MXA910W or equivalent are the desired make/models. The Room List specifications have been updated accordingly.

**Question #75**

**Item #3 – Room Types 5.1 and 5.2:**

One (1) Crestron CP3N is specified in the room list and is discontinued. It is assumed that this can be changed to a Crestron CP4N

**Answer #75:**

Yes, this is an acceptable replacement. The Room List specifications have been updated accordingly.

**Question #76**

**Item #3 – Room Types 5.1 and 5.2:**

One (1) Crestron TSW-1060-NC-B-S is specified in the room list. The description next to the item in the room list also notes "Wall-mounted wireless touch panel" – The unit specified is not wireless. Please clarify this requirement, noting that the specified TSW-1060-NC-B-S is also discontinued

**Answer #76:**

After review, the touch panel required is the Crestron TSW-1070-NC-B-S. The Room List specifications have been updated accordingly.

**Question #77**

**Item #3 – Room Types 5.1 and 5.2:**

Two (2) Extron 70-1184-02 is specified in the room list - this is an Extron Cable Cubby 1202. The description next to the item in the room list also notes this unit is to be an Extron Cable Cubby 1400 (1402 is current model). Please confirm all Extron table box requirements for this as well as accompanying connectivity plates and retractors



**Answer #77:**

Model 1402 is required, the Room List specifications have been updated accordingly. The remaining Extron requirements are as listed in the specifications.

**Question #78**

**Item #3 – Room Types 5.1 and 5.2:**

Quantity one (1) of Connect Track is specified, however there are multiple variants of this product as well as varying accessories for boxes, etc. Please clarify this requirement

**Answer #78:**

Please propose the most functional and esthetically pleasing option for this product and its accessories.

**Question #79**

**Item #3 – Room Types 5.1 and 5.2:**

There is no rack specified for this room, however there are several pieces of equipment specified that require racking (control processor, audio DSP, amplifier. Please clarify the intention for this hardware

**Answer #79:**

All non-visible components will be in the telecom room, please provide the appropriate rack size in your quotes.

**Question #80**

**Item #3 – Room Types 5.1 and 5.2:**

Please provide system connectivity diagrams to confirm intention for system wiring and interconnections

**Answer #80:**

We do not provide connectivity diagrams. The Room List specifications have been updated due to a number of questions and clarifications. Please consult the updated specifications.

**Question #81**

**Item #5 – Room Type 5.3:**

One (1) Biamp TesiraFORTE is specified in the room list, however there are multiple variants of this product that provide different input counts and network protocols for audio. Please clarify this requirement. Which version is requested?

**Answer #81:**

Please quote the appropriate model as per room functionality requirements.

**Question #82**

**Item #5 – Room Type 5.3:**

Two (2) in-tile ceiling microphones are specified in the room list, however there is no accompanying manufacturer or model number. Please clarify this requirement

**Answer #82:**

Microphones (ceiling tile) such as the Shure MXA910W or equivalent are the desired make/models. The Room List specifications have been updated accordingly.

**Question #83**

**Item #5 – Room Type 5.3:**

Two (2) separate Barco CSE-200 units are specified for this room, please confirm that two different units are needed

**Answer #83:**

Two (2) units are required.

**Question #84**

**Item #5 – Room Type 5.3:**

One (1) Crestron CP3N is specified in the room list and is discontinued. It is assumed that this can be changed to a Crestron CP4N. Please confirm

**Answer #84:**

Yes, this is an acceptable replacement. The Room List specifications have been updated accordingly.

**Question #85**

**Item #5 – Room Type 5.3:**

One (1) Crestron TSW-1060-NC-B-S is specified in the room list. The description next to the item in the room list also notes "Wall-mounted wireless touch panel" – The unit specified is not wireless. Please clarify this requirement, noting that the specified TSW-1060-NC-B-S is also discontinued

**Answer #85:**

After review, the touch panel required is the Crestron TSW-1070-NC-B-S. The Room List specifications have been updated accordingly.

**Question #86**

**Item #5 – Room Type 5.3:**

Six (6) Extron 70-1184-02 is specified in the room list - this is an Extron Cable Cubby 1202. The description next to the item in the room list also notes this unit is to be an Extron Cable Cubby 1400 (1402 is current model). Please confirm all Extron table box requirements for this as well as accompanying connectivity plates and retractors

**Answer #86:**

Model 1402 is required, the Room List specifications have been updated accordingly. The remaining Extron requirements are as listed in the specifications.

**Question #87**

**Item #5 – Room Type 5.3:**

Quantity one (1) of Connect Track is specified, however there are multiple variants of this product as well as varying accessories for boxes, etc. Please clarify this requirement

**Answer #87:**

Please propose the most functional and esthetically pleasing option for this product and its accessories.

**Question #88**

**Item #5 – Room Type 5.3:**

There is no rack specified for this room, however there are several pieces of equipment specified that require racking (control processor, audio DSP, amplifier). Please clarify the intention for this hardware

**Answer #88:**

All non-visible components will be in the telecom room, please provide the appropriate rack size in your quotes.

**Question #89**

**Item #5 – Room Type 5.3:**

Please provide system connectivity diagrams to confirm intention for system wiring and interconnections – specifically with relation to the six (6) HDMI inputs at the table, two (2) Clickshare units, and a Cisco Room Kit as there is no video switching, as well as audio playback and control of these devices

**Answer #89:**

We do not provide connectivity diagrams. The Room List specifications have been updated due to a number of questions and clarifications. Please consult the updated specifications.

**Question #90**

**Item #6 – Room Type 6:**

One (1) Biamp TesiraFORTE is specified in the room list, however there are multiple variants of this product that provide different input counts and network protocols for audio. Please clarify this requirement

**Answer #90:**

Please quote the appropriate model as per room functionality requirements.

**Question #91**

**Item #6 – Room Type 6:**

Three (3) low profile ceiling microphones are specified in the room list, however there is no accompanying manufacturer or model number. Please clarify the requirement

**Answer #91:**

Microphones (ceiling tile) such as the Shure MXA910W or equivalent are the desired make/models. The Room List specifications have been updated accordingly.

**Question #92**

**Item #6 – Room Type 6:**

Two (2) separate Barco CSE-200 units are specified for this room, please confirm that two different units are needed

**Answer #92:**

Two (2) units are required.

**Question #93**

**Item #6 – Room Type 6:**

One (1) Crestron CP3N is specified in the room list and is discontinued. It is assumed that this can be changed to a Crestron CP4N

**Answer #93:**

Yes, this is an acceptable replacement. The Room List specifications have been updated accordingly.

**Question #94**

**Item #6 – Room Type 6:**

One (1) Crestron TSW-1060-NC-B-S is specified in the room list. The description next to the item in the room list also notes “Wall-mounted wireless touch panel” – The unit specified is not wireless. Please clarify this requirement, noting that the specified TSW-1060-NC-B-S is also discontinued

**Answer #94:**

After review, the touch panel required is the Crestron TSW-1070-NC-B-S. The Room List specifications have been updated accordingly.

**Question #95**

**Item #6 – Room Type 6:**

Eight (8) Extron 70-1184-02 is specified in the room list - this is an Extron Cable Cubby 1202. The description next to the item in the room list also notes this unit is to be an Extron Cable Cubby 1400 (1402 is current model). Please confirm all Extron table box requirements for this as well as accompanying connectivity plates and retractors

**Answer #95:**

Model 1402 is required, the Room List specifications have been updated accordingly. The remaining Extron requirements are as listed in the specifications.

**Question #96**

**Item #6 – Room Type 6:**

Only two (2) Kramer AD-RING-6 are specified, however there is eight (8) table connection points according to the room list. Please clarify this requirement

**Answer #96:**

The two (2) Kramer adapter rings are to be located at each extremity of the table.

**Question #97**

**Item #6 – Room Type 6:**

Quantity one (1) of Connect Track is specified, however there are multiple variants of this product as well as varying accessories for boxes, etc. Please clarify this requirement

**Answer #97:**

Please propose the most functional and esthetically pleasing option for this product and its accessories.

**Question #98**

**Item #6 – Room Type 6:**

There is no rack specified for this room, however there are several pieces of equipment specified that require racking (control processor, audio DSP, amplifier). Please clarify the intention for this hardware

**Answer #98:**

All non-visible components will be in the telecom room, please provide the appropriate rack size in your quotes.

**Question #99**

**Item #6 – Room Type 6:**

Please provide system connectivity diagrams to confirm intention for system wiring and interconnections – specifically with relation to the eight (8) HDMI inputs at the table, two (2)

Clickshare units, and a Cisco Room Kit as there is no video switching, as well as audio playback and control of these devices

**Answer #99:**

We do not provide connectivity diagrams. The Room List specifications have been updated due to a number of questions and clarifications. Please consult the updated specifications.

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**2. In amendment 003:**

**Delete:** Appendix A - Room list in its entirety

**Insert:** Attachment 1 - Appendix A – Room list (pages 21-38 of this amendment #005)

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All other terms and conditions remain the same

## **APPENDIX A**

# **Room List**

### **Audio Visual Procurement & Installation Public Services and Procurement Canada**

**1625 Vanier  
2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> floor fit-up and Modernization  
Ottawa, (ON)**

Solicitation No. - N° de l'invitation  
E62ZR-212805/A  
Client Ref. No. - N° de réf. du client  
E62ZR-212805

Amd. No. - N° de la modif.  
005  
File No. - N° du dossier  
hn331.E62ZR-212805

Buyer ID - Id de l'acheteur  
hn331  
CCC No./N° CCC - FMS No./N° VME

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The following is a general description of the rooms by room type. All equipment listed is based on an indicative design. All equipment and part numbers are indicated to convey design intent. All components listed below are minimum acceptable equipment. The Contractor may offer other equipment equivalent to or greater than the list below with exception of **Clickshare CSE-200 (no substitutes are allowed)**. The Contractor must provide all miscellaneous cables and small parts that are not listed to provide a complete turnkey system.

## 1. Type 1.1 – WORK ROOM A

Rooms 02-009, 02-028, 02-033,  
03-009, 03-029, 03-034

TYPE 1.1		Bill of Materials	
Room Type Qty:	6		
ITEM	MFR	DESCRIPTION	QTY
DISPLAY(S)			
TH43EQ1U	Panasonic	43 inch 4K display	1
		Mounted on media table mount	
VIDEO SYSTEM			
R9861520NA	BARCO	Clickshare CSE-200 Base Unit System (CSE-200 Base unit & 2 Buttons)	1
R9861500T01	BARCO	Clickshare Tray	1
TELEPHONY			
7710-309	Jabra Speak 710	Portable Bluetooth speakerphone	1
INCIDENTALS			
Incidentals	MISCELLANEOUS	All additional incidental materials required to complete the installation such as, but not limited to: cabling, connectors, anchors, trim rings, installation support hardware, cable ties, labels, interface plates, blank and vent rack panels, rack lacing bars, rack screws.	1

// END TYPE 1.1 - Workroom A



## 2. Type 1.2 – WORK ROOM B

Rooms 02-005, 02-010, 02-020, 02-026, 02-027, 02-034, 02-043, 02-046, 02-049  
03-005, 03-010, 03-020, 03-021, 03-024, 03-025, 03-035, 03-044, 03-047, 03-050, 03-053,  
04-002, 04-008, 04-018

TYPE 1.2		Bill of Materials	
Room Type Qty:	23		
ITEM	MFR	DESCRIPTION	QTY
DISPLAY(S)			
TH43EQ1U	Panasonic	43 inch 4K display	1
MTA1U	CHIEF	Medium Fusion Tilt Wall Mount	1
VIDEO SYSTEM			
R9861520NA	BARCO	Clickshare CSE-200 Base Unit System (CSE-200 Base unit & 2 Buttons)	1
R9861500T01	BARCO	Clickshare Tray	1
TELEPHONY			
7710-309	Jabra Speak 710	Portable Bluetooth speakerphone	1
INCIDENTALS			
Incidentals	MISCELLANEOUS	All additional incidental materials required to complete the installation such as, but not limited to: cabling, connectors, anchors, trim rings, installation support hardware, cable ties, labels, interface plates, blank and vent rack panels, rack lacing bars, rack screws.	1

// END TYPE 1.2 - Work Room B

### 3. Type 2.1 – PROJECT ROOM A

Rooms 02-007,  
03-007

TYPE 2.1		Bill of Materials	
Room Type Qty:	2		
ITEM	MFR	DESCRIPTION	QTY
DISPLAY(S)			
TH65EQ1U	Panasonic	65 inch 4K display	1
LTA1U	CHIEF	Large Fusion Tilt Wall Mount	1
VIDEO SYSTEM			
R9861520NA	BARCO	Clickshare CSE-200 Base Unit System (CSE-200 Base unit & 2 Buttons)	1
R9861500T01	BARCO	Clickshare Tray	1
TELEPHONY			
7710-309	Jabra Speak 710	Portable Bluetooth speakerphone	1
INCIDENTALS			
Incidentals	MISCELLANEOUS	All additional incidental materials required to complete the installation such as, but not limited to: cabling, connectors, anchors, trim rings, installation support hardware, cable ties, labels, interface plates, blank and vent rack panels, rack lacing bars, rack screws.	1

// END TYPE 2.1 - Project Room A

#### 4. Type 2.2 – PROJECT ROOM B

Rooms 02-031,  
03-032

TYPE 2.2		Bill of Materials	
Room Type Qty:	2		
ITEM	MFR	DESCRIPTION	QTY
DISPLAY(S)			
TH55EQ1U	Panasonic	55 inch 4K display	1
MTA1U	CHIEF	Medium Fusion Tilt Wall Mount	1
VIDEO SYSTEM			
R9861520NA	BARCO	Clickshare CSE-200 Base Unit System (CSE-200 Base unit & 2 Buttons)	1
R9861500T01	BARCO	Clickshare Tray	1
TELEPHONY			
7710-309	Jabra Speak 710	Portable Bluetooth speakerphone	1
INCIDENTALS			
Incidentals	MISCELLANEOUS	All additional incidental materials required to complete the installation such as, but not limited to: cabling, connectors, anchors, trim rings, installation support hardware, cable ties, labels, interface plates, blank and vent rack panels, rack lacing bars, rack screws.	1

// END TYPE 2.2 - Project Room B

## 5. Type 2.3 – PROJECT ROOM C

Room 04-017

TYPE 2.3		Bill of Materials	
Room Type Qty:	1		
ITEM	MFR	DESCRIPTION	QTY
DISPLAY(S)			
TH55EQ1U	Panasonic	55 inch 4K display	1
MTA1U	CHIEF	Medium Fusion Tilt Wall Mount	1
BDM4065UC	Philips	40 inch Class 4K Monitor	1
		Table Mount	1
VIDEO SYSTEM			
R9861520NA	BARCO	Clickshare CSE-200 Base Unit System (CSE-200 Base unit & 2 Buttons)	1
R9861500T01	BARCO	Clickshare Tray	1
EQUIPMENT STORAGE			
70-1184-02	EXTRON	Cable Cubby 1202 Black, AC Module Not Included	1
60-1697-01	EXTRON	US (2) AC & (2) USB Outlets w Integrated PS	1
70-1065-04	EXTRON	Cable Retraction System for Cable Cubby® Enclosures - HDMI Male to Male	1
AD-RING-6	KRAMER	Included adapters: Mini DisplayPort (M) to HDMI (F); DisplayPort (M) to HDMI (F); USB type-C (M) to HDMI (F)	1
TELEPHONY			
7710-309	Jabra Speak 710	Portable Bluetooth speakerphone	1
INCIDENTALS			
Incidentals	MISCELLANEOUS	All additional incidental materials required to complete the installation such as, but not limited to: cabling, connectors, anchors, trim rings, installation support hardware, cable ties, labels, interface plates, blank and vent rack panels, rack lacing bars, rack screws.	1

// END TYPE 2.3 – Project Room C

## 6. Type 2.4 – PROJECT ROOM D

Rooms 02-019,  
03-023

TYPE 2.4		Bill of Materials	
Room Type Qty:	2		
ITEM	MFR	DESCRIPTION	QTY
DISPLAY(S)			
TH55EQ1U	Panasonic	55 inch 4K display	1
		To be Table Mounted	1
VIDEO SYSTEM			
R9861520NA	BARCO	Clickshare CSE-200 Base Unit System (CSE-200 Base unit & 2 Buttons)	1
R9861500T01	BARCO	Clickshare Tray	1
TELEPHONY			
7710-309	Jabra Speak 710	Portable Bluetooth speakerphone	1
INCIDENTALS			
Incidentals	MISCELLANEOUS	All additional incidental materials required to complete the installation such as, but not limited to: cabling, connectors, anchors, trim rings, installation support hardware, cable ties, labels, interface plates, blank and vent rack panels, rack lacing bars, rack screws.	1

// END TYPE 2.4 - Project Room D

## 7. Type 3.1 – TEAMING AREA A

Rooms 02-011B, 02-21C,  
03-011B, 03-026C

TYPE 3.1		Bill of Materials	
Room Type Qty:	4		
ITEM	MFR	DESCRIPTION	QTY
DISPLAY(S)			
TH65EQ1U	Panasonic	65 inch 4K display	1
LTA1U	CHIEF	Large Fusion Tilt Wall Mount	1
VIDEO SYSTEM			
R9861520NA	BARCO	Clickshare CSE-200 Base Unit System (CSE-200 Base unit & 2 Buttons)	1
R9861500T01	BARCO	Clickshare Tray	1
INCIDENTALS			
Incidentals	MISCELLANEOUS	All additional incidental materials required to complete the installation such as, but not limited to: cabling, connectors, anchors, trim rings, installation support hardware, cable ties, labels, interface plates, blank and vent rack panels, rack lacing bars, rack screws.	1

// END TYPE 3.1 – Teaming Area A

## 8. Type 3.2 – TEAMING AREA B

Rooms 02-011E,  
03-011E

TYPE 3.2		Bill of Materials	
Room Type Qty:	2		
ITEM	MFR	DESCRIPTION	QTY
DISPLAY(S)			
TH55EQ1U	Panasonic	55 inch 4K display	1
	CHIEF	Ceiling Mount	1
VIDEO SYSTEM			
R9861520NA	BARCO	Clickshare CSE-200 Base Unit System (CSE-200 Base unit & 2 Buttons)	1
R9861500T01	BARCO	Clickshare Tray	1
AD-RING-6	KRAMER	Included adapters: Mini DisplayPort (M) to HDMI (F); DisplayPort (M) to HDMI (F); USB type-C (M) to HDMI (F)	1
INCIDENTALS			
Incidentals	MISCELLANEOUS	All additional incidental materials required to complete the installation such as, but not limited to: cabling, connectors, anchors, trim rings, installation support hardware, cable ties, labels, interface plates, blank and vent rack panels, rack lacing bars, rack screws.	1

// END TYPE 3.2 – Teaming Area B

## 9. Type 3.3 – TEAMING AREA C

Rooms 02-011C, 02-030,  
03-011C, 03-027B, 03-031,  
04-023

TYPE 3.3		Bill of Materials	
Room Type Qty:	6		
ITEM	MFR	DESCRIPTION	QTY
DISPLAY(S)			
TH55EQ1U	Panasonic	55 inch 4K display	1
MTA1U	CHIEF	Medium Fusion Tilt Wall Mount	1
VIDEO SYSTEM			
R9861520NA	BARCO	Clickshare CSE-200 Base Unit System (CSE-200 Base unit & 2 Buttons)	1
R9861500T01	BARCO	Clickshare Tray	1
INCIDENTALS			
Incidentals	MISCELLANEOUS	All additional incidental materials required to complete the installation such as, but not limited to: cabling, connectors, anchors, trim rings, installation support hardware, cable ties, labels, interface plates, blank and vent rack panels, rack lacing bars, rack screws.	1

// END TYPE 3.3 – Teaming Area C



## 10. Type 4 – TRAINING ROOM

Room 03-019

TYPE 4		Bill of Materials	
Room Type Qty:	1		
ITEM	MFR	DESCRIPTION	QTY
DISPLAY(S)			
TH86CQE1W	Panasonic	86 inch 4K display	1
XSM1U	CHIEF	X-Large Fusion Micro-Adjustable Fixed Wall Display Mount	1
AUDIO SYSTEM			
TesiraFORTÉ	BIAMP	TesiraFORTÉ digital audio server	1
TesiraCONNECT	BIAMP	TesiraCONNECT serves as the central connection point for all Biamp devices in a conference room.	1
MXA910W	Shure	In-ceiling microphone (in-tile)	2
AMP-A460H	BIAMP	Amplifier with minimum 60 watts per channel	1
Desono C-IC6	Speaker	For audio conferencing applications.	3
VIDEO SYSTEM			
R9861520NA	BARCO	Clickshare CSE-200 Base Unit System (CSE-200 Base unit & 2 Buttons)	1
R9861500T01	BARCO	Clickshare Tray	1
TSW-1070-NC-B-S	CRESTON	Wall-mountable wireless touch panel	1
	CRESTRON	Crestron DM controller	1
AD-RING-6	KRAMER	Included adapters: Mini DisplayPort (M) to HDMI (F); DisplayPort (M) to HDMI (F); USB type-C (M) to HDMI (F)	1
INCIDENTALS			
Incidentals	MISCELLANEOUS	All additional incidental materials required to complete the installation such as, but not limited to: cabling, connectors, anchors, trim rings, installation support hardware, cable ties, labels, interface plates, blank and vent rack panels, rack lacing bars, rack screws.	1

// END TYPE 4 – Training Room

## 11. Type 5.1 – MEDIUM MEETING ROOM A - WITH VC

Rooms 02-017,  
03-017, 03-041

TYPE 5.1		Bill of Materials	
Room Type Qty:	3		
ITEM	MFR	DESCRIPTION	QTY
DISPLAY(S)			
TH75EQ1W	Panasonic	75 inch 4K display	1
XSM1U	CHIEF	X-Large Fusion Micro-Adjustable Fixed Wall Display Mount	1
AUDIO SYSTEM			
TesiraFORTÉ	BIAMP	TesiraFORTÉ digital audio server	1
TesiraCONNECT	BIAMP	TesiraCONNECT serves as the central connection point for all Biamp devices in a conference room.	1
MXA910W	Shure	In-ceiling microphone (tile)	1
AMP-A460H	BIAMP	Amplifier with minimum 60 watts per channel	1
Desono C-IC6	Speaker	For audio conferencing applications.	6
VIDEO SYSTEM			
R9861520NA	BARCO	Clickshare CSE-200 Base Unit System (CSE-200 Base unit & 2 Buttons)	1
R9861500T01	BARCO	Clickshare Tray	1
	CISCO	Cisco Room Kit Plus (Government Supplied Equipment)	1
CONTROL SYSTEM			
CP4N	CRESTRON	4-Series Control System®	1
TSW-1070-NC-B-S	CRESTRON	Wall-mountable wireless touch panel	1
EQUIPMENT STORAGE			
70-1185-02	EXTRON	Cable Cubby 1402 Black, AC Module Not Included	2
60-1697-01	EXTRON	US (2) AC & (2) USB Outlets w Integrated PS	2
70-1065-04	EXTRON	Cable Retraction System for Cable Cubby® Enclosures - HDMI Male to Male	2
70-1065-03	EXTRON	Cable Retraction System for AVEdge, Cable Cubby®, select TouchLink®	2
70-1065-35	EXTRON	With Blank & Cable Pass-through Plates	2
AD-RING-6	KRAMER	Included adapters: Mini DisplayPort (M) to HDMI (F); DisplayPort (M) to HDMI (F); USB type-C (M) to HDMI (F)	2
	Connect Track	In Carpet Low Profile Cable Track	1
INCIDENTALS			
Incidentals	MISCELLANEOUS	All additional incidental materials required to complete the installation such as, but not limited to: cabling, connectors, anchors, trim rings, installation support hardware, cable ties, labels, interface plates, blank and vent rack panels, rack lacing bars, rack screws.	1

// END TYPE 5.1 – Medium Meeting Room A - With VC

## 12. Type 5.2 – MEDIUM MEETING ROOM B

Rooms 02-018, 02-032, 02-040,  
03-018, 03-33,

TYPE 5.2		Bill of Materials	
Room Type Qty:	5		
ITEM	MFR	DESCRIPTION	QTY
DISPLAY(S)			
TH75EQ1W	Panasonic	75 inch 4K display	1
XSM1U	CHIEF	X-Large Fusion Micro-Adjustable Fixed Wall Display Mount	1
AUDIO SYSTEM			
TesiraFORTÉ	BIAMP	TesiraFORTÉ digital audio server	1
TesiraCONNECT	BIAMP	TesiraCONNECT serves as the central connection point for all Biamp devices in a conference room.	1
MXA910W	Shure	In-celling microphone (tile)	1
AMP-A460H	BIAMP	Amplifier with minimum 60 watts per channel	1
Desono C-IC6	Speaker	For conferencing applications.	6
VIDEO SYSTEM			
R9861520NA	BARCO	Clickshare CSE-200 Base Unit System (CSE-200 Base unit & 2 Buttons)	1
R9861500T01	BARCO	Clickshare Tray	1
CONTROL SYSTEM			
CP4N	CRESTRON	4-Series Control System®	1
TSW-1070-NC-B-S	CRESTRON	Wall-mountable wireless touch panel	1
EQUIPMENT STORAGE			
70-1185-02	EXTRON	Cable Cubby 1402 Black, AC Module Not Included	2
60-1697-01	EXTRON	US (2) AC & (2) USB Outlets w Integrated PS	2
70-1065-04	EXTRON	Cable Retraction System for Cable Cubby® Enclosures - HDMI Male to Male	2
70-1065-03	EXTRON	Cable Retraction System for AVEdge, Cable Cubby®, select TouchLink®	2
AD-RING-6	KRAMER	Included adapters: Mini DisplayPort (M) to HDMI (F); DisplayPort (M) to HDMI (F); USB type-C (M) to HDMI (F)	2
	Connect Track	In Carpet Low Profile Cable Track	1
POWER DISTRIBUTION			
FI/RM/PDU	SALAMANDER	Multi-port rack mounted Power Distribution Unit with surge protection	2
INCIDENTALS			
Incidentals	MISCELLANEOUS	All additional incidental materials required to complete the installation such as, but not limited to: cabling, connectors, anchors, trim rings, installation support hardware, cable ties, labels, interface plates, blank and vent rack panels, rack lacing bars, rack screws.	1

// END TYPE 5.2 – Medium Meeting Room B

### 13. Type 5.3 – MEDIUM ACCESSIBLE MEETING ROOM C – WITH VC

Room 04-013

TYPE 5.3		Bill of Materials	
Room Type Qty:	1		
ITEM	MFR	DESCRIPTION	QTY
<b>DISPLAY(S)</b>			
TH86CQE1W	Panasonic	86 inch 4K display	1
TH65EQ1U	Panasonic	65 inch 4K display	2
XSM1U	CHIEF	X-Large Fusion Micro-Adjustable Fixed Wall Display Mount	1
LTA1U	CHIEF	Large Fusion Tilt Wall Mount	2
<b>AUDIO SYSTEM</b>			
TesiraFORTÉ	BIAMP	TesiraFORTÉ digital audio server	1
TesiraCONNECT	BIAMP	TesiraCONNECT serves as the central connection point for all Biamp devices in a conference room.	1
MXA910W	Shure	In-celling microphone (in-tile)	2
AMP-A460H	BIAMP	Amplifier with minimum 60 watts per channel	1
Desono C-IC6	Speaker	For audio/video conferencing applications.	8
<b>VIDEO SYSTEM</b>			
R9861520NA	BARCO	Clickshare CSE-200 Base Unit System (CSE-200 Base unit & 2 Buttons)	2
R9861500T01	BARCO	Clickshare Tray	2
	<b>CISCO</b>	<b>Cisco Room Kit Plus (Government Supplied Equipment)</b>	<b>1</b>
<b>CONTROL SYSTEM</b>			
CP4N	CRESTRON	4-Series Control System®	1
TST-902-DSW	CRESTRON	Wireless Touch Panel (wall mounted)	1
<b>EQUIPMENT STORAGE</b>			
70-1185-02	EXTRON	Cable Cubby 1402 Black, AC Module Not Included	6
60-1697-01	EXTRON	US (2) AC & (2) USB Outlets w Integrated PS	6
70-1065-04	EXTRON	Cable Retraction System for Cable Cubby® Enclosures - HDMI Male to Male	6
70-1065-03	EXTRON	Cable Retraction System for AVEdge, Cable Cubby®, select TouchLink®	2
AD-RING-6	KRAMER	Included adapters: Mini DisplayPort (M) to HDMI (F); DisplayPort (M) to HDMI (F); USB type-C (M) to HDMI (F)	6
	Connect Track	In Carpet Low Profile Cable Track	1
<b>INCIDENTALS</b>			
Incidentals	MISCELLANEOUS	All additional incidental materials required to complete the installation such as, but not limited to: cabling, connectors, anchors, trim rings, installation support hardware, cable ties, labels, interface plates, blank and vent rack panels, rack lacing bars, rack screws.	1

// END TYPE 5.3 – Medium Accessible Meeting Room C - With VC

## 14. Type 6 – LARGE MEETING ROOM – WITH VC

Room 02-025

TYPE 6		Bill of Materials	
Room Type Qty:	1		
ITEM	MFR	DESCRIPTION	QTY
DISPLAY(S)			
TH98SQ1W	Panasonic	98 inch (4K UHD)	2
XSM1U	CHIEF	X-Large Fusion Micro-Adjustable Fixed Wall Display Mount	2
TH75EQ1W	Panasonic	75 inch (4K UHD)	2
LTA1U	CHIEF	Large Fusion Tilt Wall Mount	2
AUDIO SYSTEM			
TesiraFORTÉ	BIAMP	TesiraFORTÉ digital audio server	1
TesiraCONNECT	BIAMP	TesiraCONNECT connection point for all Biamp devices.	1
MXA910W	Shure	In-ceiling microphone (in-tile)	3
AMP-A460H	BIAMP	Amplifier delivering 60 watts per channel in a sleek, compact design	1
Desono C-IC6	SPEAKERS	In-ceiling loudspeaker designed for speech and music reproduction in conferencing applications.	10
VIDEO SYSTEM			
R9861520NA	BARCO	Clickshare CSE-200 Base Unit System (CSE-200 Base unit & 2 Buttons)	2
R9861500T01	BARCO	Clickshare Tray	2
	CISCO	Cisco Room Kit Plus (Government Supplied Equipment)	1
CONTROL SYSTEM			
CP4N	CRESTRON	4-Series Control System®	1
TST-902-DSW	CRESTRON	Wireless Touch Panel, Black Smooth	1
	CRESTRON	Wall mount kit for wireless touch panel	1
EQUIPMENT STORAGE			
70-1185-02	EXTRON	Cable Cubby 1402 series Black, AC Module Not Included	8
60-1697-01	EXTRON	US (2) AC & (2) USB Outlets w Integrated PS	8
70-1065-04	EXTRON	Cable Retraction System for Cable Cubby® Enclosures - HDMI Male to Male	8
70-1065-03	EXTRON	Cable Retraction System for AVEdge, Cable Cubby®, select TouchLink®	8
70-1065-35	EXTRON	With Blank & Cable Pass-through Plates	8
AD-RING-6	KRAMER	Included adapters: Mini DisplayPort (M) to HDMI (F); DisplayPort (M) to HDMI (F); USB type-C (M) to HDMI (F)	2
	Connect Track	In Carpet Low Profile Cable Track	1
INCIDENTALS			
Incidentals	MISCELLANEOUS	All additional incidental materials required to complete the installation such as, but not limited to: cabling, connectors, anchors, trim rings, installation support hardware, cable ties, labels, interface plates, blank and vent rack panels, rack lacing bars, rack screws.	1

// END TYPE 6 – Large Meeting Room - With VC

15. Type 7 – ENTRANCE

Rooms 02-001,  
03-001,  
04-001

TYPE 7		Bill of Materials		
Room Type Qty:	3			
ITEM	MFR	DESCRIPTION	QTY	
DISPLAY(S)				
TH55EQ1U	Panasonic	55 inch 4K display	1	
MTA1U	CHIEF	Medium Fusion Tilt Wall Mount	1	
VIDEO SYSTEM				
INCIDENTALS				
Incidentals	MISCELLANEOUS	All additional incidental materials required to complete the installation such as, but not limited to: cabling, connectors, anchors, trim rings, installation support hardware, cable ties, labels, interface plates, blank and vent rack panels, rack lacing bars, rack screws.	1	

// END TYPE 7 – Entrance

## 16. Type 8 – LOUNGE / KITCHEN

Rooms 02-008,  
03-008,  
04-014

TYPE 8		Bill of Materials	
Room Type Qty:	3		
ITEM	MFR	DESCRIPTION	QTY
DISPLAY(S)			
TH55EQ1U	Panasonic	55 inch 4K display	1
	CHIEF	Ceiling Mount	1
VIDEO SYSTEM			
R9861520NA	BARCO	Clickshare CSE-200 Base Unit System (CSE-200 Base unit & 2 Buttons)	1
R9861500T01	BARCO	Clickshare Tray	1
INCIDENTALS			
Incidentals	MISCELLANEOUS	All additional incidental materials required to complete the installation such as, but not limited to: cabling, connectors, anchors, trim rings, installation support hardware, cable ties, labels, interface plates, blank and vent rack panels, rack lacing bars, rack screws.	1

// END TYPE 8 – Lounge / Kitchen