

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE J	PAGE OF PAGES 1 70
2. AMENDMENT/MODIFICATION NO. 02	3. EFFECTIVE DATE 26-Nov-2014	4. REQUISITION/PURCHASE REQ. NO. SEE SCHEDULE		5. PROJECT NO.(If applicable)	
6. ISSUED BY INSTAL & VEHICLE SUP CONTRACTING DIV 6501 E. 11 MILE ROAD WARREN MI 48397-5000	CODE W56HZV	7. ADMINISTERED BY (If other than item 6) INSTAL & VEHICLE SUP CONTRACTING DIV KAREN L KENNEDY CCTA-HDC-AMS350 KAREN.L.KENNEDY26.CIV@MAIL.MIL WARREN MI 48397-5000		CODE W56HZV	
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code) UNIFIED BUSINESS TECHNOLOGIES, INC. MICHELLE D'SOUZA 353 INDUSCO COURT SUITE C TROY MI 48063-4646				9A. AMENDMENT OF SOLICITATION NO.	
				9B. DATED (SEE ITEM 11)	
				X	10A. MOD. OF CONTRACT/ORDER NO. W56HZV-11-D-L508-0015
				X	10B. DATED (SEE ITEM 13) 28-Sep-2013
CODE 3XMH1	FACILITY CODE 3XMH1		11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS		
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offer <input type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offer must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.					
12. ACCOUNTING AND APPROPRIATION DATA (If required) See Schedule					
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.					
A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.					
B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(B).					
X C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: 43.103(a) Bilateral Agreement & 52.212-4(c) Contract Terms and Conditions					
D. OTHER (Specify type of modification and authority)					
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input checked="" type="checkbox"/> is required to sign this document and return <u>1</u> copies to the issuing office.					
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) Modification Control Number: kennedyk15125 Modification to W56HZV-11-D-L-508-0015-02 Reference Request 0010564555-0003 The purpose of mod 02 is to replace failed GFE as follows: 1) CLIN 0013 is hereby incorporated into the contract in support of CLIN 0001 to add funds in the amount of \$6,200.00 for a Soundstructure 8 System with TEL1 Card including a one year warranty at 1.5 Materials List line 72 (page 13) on the task order. 2) The period of performance is extended 6 months for CLINS 0001, 0003, 0004, 0005, 0006 & 0012 as a result of a government delay. Page 4 on the task order changes the completion date from 27 Sep 2014 to 26 Mar 2015 and the POP from 12 months to 18 months. 3) FAR clause 52.217-8, option to extend services, is hereby added to the contract. 4) FAR clauses 43.103(a) Bilateral Agreement and 52.212-4(c) Contract Terms and Conditions-Commercial Items allow for above changes. 5) As a result of this modification, the total contract amount is increased by \$6,200.00 from \$327,979.50 to \$334,179.50.					
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.					
15A. NAME AND TITLE OF SIGNER (Type or print)			16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) LYNN M. BYRNE / CONTRACTING OFFICER TEL: 586-282-6553 EMAIL: lynn.m.byrne.civ@mail.mil		
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)		15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY <i>Lynn M Byrne</i> (Signature of Contracting Officer)		16C. DATE SIGNED 26-Nov-2014

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

SUMMARY OF CHANGES

SECTION SF 30 - BLOCK 14 CONTINUATION PAGE

The following have been added by full text:

52.217-8 OPTION TO EXTEND SERVICES (NOV 1999)

The Government may require continued performance of any services within the limits and at the rates specified in the contract. These rates may be adjusted only as a result of revisions to prevailing labor rates provided by the Secretary of Labor. The option provision may be exercised more than once, but the total extension of performance hereunder shall not exceed 6 months. The Contracting Officer may exercise the option by written notice to the Contractor within 365 days.

(End of clause)

SECTION A - SOLICITATION/CONTRACT FORM

The total cost of this contract was increased by \$6,200.00 from \$327,979.50 to \$334,179.50.

SECTION B - SUPPLIES OR SERVICES AND PRICES

CLIN 0012

The PROG code has changed from A70 to C9E.

The SIC code 5065 has been added.

CLIN 0013 is added as follows:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0013	Task 1 Building 200A, Room 1023 Decker FFP Task 1 – Building 200A, Room 1023 Decker, Large Conference Room, WITH VTC	1	Job	\$6,200.00	\$6,200.00

CLIN 0013 is in direct support of CLIN 0001. The materials listed on Line 72 at 1.5 Materials List are incorporated in Task 1 to replace failed GFE.

The contractor shall provide the necessary services and supplies to integrate audio visual (A/V) equipment and/or video teleconference equipment (VTC) for TARDEC Standardization of Conference Rooms Task 1 – Building 200A, room 1023 Decker, Large Conference Room, with VTC at Detroit Arsenal. Work to be performed shall be IAW the Performance Work Statement (PWS).

Reference Quotation: 143/2014, dated: 11/06/2014

SHIP ALL DELIVERABLES TO:

Detroit Arsenal
Central Receiving Dock, Bldg 249
ATTN: Vernard Hester, 586-282-5950
6501 E. 11 Mile Rd.
Warren, MI 48397-5000

PLACE OF PERFORMANCE:

Detroit Arsenal
Central Receiving Dock, Bldg 249
ATTN: Vernard Hester, 586-282-5950
6501 E. 11 Mile Rd.
Warren, MI 48397-5000

DELIVERIES WILL NOT BE ACCEPTED AFTER 3:30PM

SHIPPING IS INCLUDED IN COST

MARK FOR: W56HZV-11-D-L508-0015-02

EXPEDITED DELIVERABLES ARE ACCEPTABLE AT NO ADDITIONAL COST TO THE GOVERNMENT.

FOR INVOICING INSTRUCTIONS, SEE CLAUSE: 52.232-4007 WIDE AREA WORKFLOW.

FOB: Destination

PURCHASE REQUEST NUMBER: 0010564555-0003

NET AMT \$6,200.00

ACRN AB \$6,200.00
CIN: GFEB001056455500002

SECTION C - DESCRIPTIONS AND SPECIFICATIONS

The following have been modified:

TASK ORDER 015

U.S. ARMY Tank & Automotive Research Development and Engineering Center

Corporate Information Office (CIO-G6)

INFORMATION TECHNOLOGY TASK ORDER

TASK ORDER NO.: 0015	CLIN:	REV.: N/A	DATE: September 28, 2013
CONTRACT NO.: W56HZV-11-D-L508 0015		CONTRACT REFERENCE: W56HZV-11-D-L508 0015	
CONTRACTOR: Unified Business Technologies, Inc.			
PROJECT TITLE: Audio Visual (A/V) Equipment and/or Video Teleconference (VTC) Equipment Integration for:			
<p>Task 1 - Building 200A, Room 1023 (Decker), Large Conference Room, WITH VTC (Quantity 1)</p> <p>Task 2 - Building 201, Room 107, Large Conference Room, WITH VTC (Quantity 1)</p> <p>Task 3 - Building 212B, Room 1E043-T, Small Conference Room, NO VTC (Quantity 1)</p> <p>Task 4 - Building 200A, Second Floor, Room 2190, Small Conference Room, WITH VTC (Quantity 1)</p> <p>Task 5 - Building 200A, Second Floor, Room 2099, Small Conference Room, WITH VTC (Quantity 1)</p> <p>Task 6 - Building 200A, Second Floor, Room 2148, Small Conference Room, WITH VTC (Quantity 1)</p> <p>Task 7 - Building 200C, Room 1214, Very Small Conference Room (Standard Office Install) (Quantity 1)</p> <p>Task 8 - Building 215, Rooms 35/37 Collaboration Room (Standard Office Install) – (Quantity 1)</p> <p>Task 9 - Building (Various), Various Offices, (Standard Office Install) (Quantity 31)</p> <p>Task 10 - ICS SignPro-Plus Manager Software Digital Signage Manager – Deliverable only (Quantity 1)</p> <p>Task 11 - ICS DVC-485E Digital Signage Player – Deliverable only (Quantity 4)</p>			
START DATE: September 28, 2013		COMPLETION DATE: March 26, 2015	

COR: Vernard Hester

Alt. COR: FloAnn Yoerg

Period of Performance: 18 months

Incremental invoicing per task on this task order is acceptable, however, invoices will not be accepted in Wide Area Workflow (WAWF) until all required documentation, drawings and reports are submitted. In order for incremental invoicing to occur, the Contractor shall submit a quote with a pricing breakdown for each task on the RFQ. On your quote, please reference for each task number above, pricing for an equipment line item, installation and labor line item, equipment delivery charge line item along with the building number, room number, and conference room information as detailed for each task listed under the project title above.

*****If Applicable: Substitutions of equipment, software, instructions, or objectives listed in the Task Orders are not acceptable and shall not be used.*****

******If GFE for each task is analog, please disregard any reference to digital components in the materials list.******

Objective:

TARDEC CIO/G6 has the task of standardization of all Conference Rooms, Video Teleconferencing (VTC) systems and customized audio visual systems throughout all TARDEC buildings. This effort will allow for easier integration, maintenance and life cycle upgrades of outdated equipment. Continuity of Conference Rooms and VTC systems across the user community will allow for more efficient communication and information sharing due to system compatibility.

Description of Effort:

The Government shall provide an inventory of Government Furnished Equipment (hereafter referred to as GFE) which is in storage. This GFE currently in storage is from the decommissioning of several conference rooms. Additionally, some of the rooms on this task order have components that can be reused. A meeting will be scheduled so that the bidding contractors can take inventory of the components in these rooms and decide which, if any, components from these rooms can be integrated, with the aforementioned GFE, into the system. These components, inventoried by the bidding contractors, are also to be considered GFE. It is required that all of the GFE, both from storage and from the walk-thru, be integrated into the design prior to quoting new equipment, provided that functionality is not compromised. Each set of GFE at 12.1.1 on Addendum 1, 12.1.2 on Addendum 2 and 12.1.3 on Addendum 3 shall be used for the room specified in the task order. Any equipment the Contractors deem as not usable shall be set aside for government use as spare parts providing proper justification is provided to the government.

All electrical power cords to any of the flat panel displays are to be concealed in a surface mount Snap Track style molding (Wiremold/Legrand Model # C210 or similar) and neatly routed to the closest electrical outlet, if a proper outlet has not already been provided.

Under this task order, the Contractor shall provide the installation of: Two (2) Large Conference Rooms WITH VTC, one (1) Small Conference Room NO VTC, three (3) small Conference Rooms WITH VTC, giving enhancements for future High Definition (HD) video, voice and content collaboration to support TARDEC staff located at the Detroit Arsenal Warren, MI. Additionally, the contractor shall provide installation of: one (1) Very Small Conference Room (Standard Office Install), thirty one (31) Standard Office Installs, one (1) ICS SignPro-Plus Manager Software Digital Signage Manager, and four (4) ICS DVC-485E Digital Signage Player. The Contractor shall provide audio visual system design, CAD drawings, equipment (where no GFE is available), materials, installation, engineering, integration, programming, user training and maintenance in accordance with the Performance Work Statement (PWS) Section C and this task order.

Where appropriate, each individual task listed within this Task Order contains a conceptual drawing. This drawing intentionally leaves out complete details. Though not straying in any way from the details within the Task Order, the individual rooms will be visited during the walk-thru. These drawings have been left intentionally blank so that each contractor can sketch his/her ideas while surveying the room during the walk-thru.

C1. SUMMARY OF REQUIRED SERVICES**Task 1 - Building 200A, Room 1023 (Decker), Large Conference Room, WITH VTC****1.1 Description of Location**

1.1.1 All equipment (considered GFE) is to be re-used . Changes to the equipment list will need to be made to accommodate the GFE . Any components that are not reusable must be removed from the room by the contractor prior to reconfiguring and installing the new equipment. The contractor shall provide, within 30 days of contract award, a list of existing components and wiring that are re-useable. Disposal of unusable equipment shall be the responsibility of the Government.

1.1.2 Currently, the existing equipment is housed in a non-vented custom desk. The new equipment shall be housed in an audio/visual rack with cooling fans.

1.1.3 An equipment/parts list is listed below. Under this task, the contractor shall reuse (and reconfigure) the GFE currently installed (to the highest extent possible), by substituting the listed equipment/parts for GFE currently in the room, and shall provide any equipment or materials not currently installed, along with integration labor for **Building 200A, Room 1023 (Decker), Large Conference Room, WITH VTC**. Changes to the equipment list will need to be made to accommodate the GFE. **If GFE for each task is analog, please disregard any reference to digital components in the materials list.**

1.2 Console Station

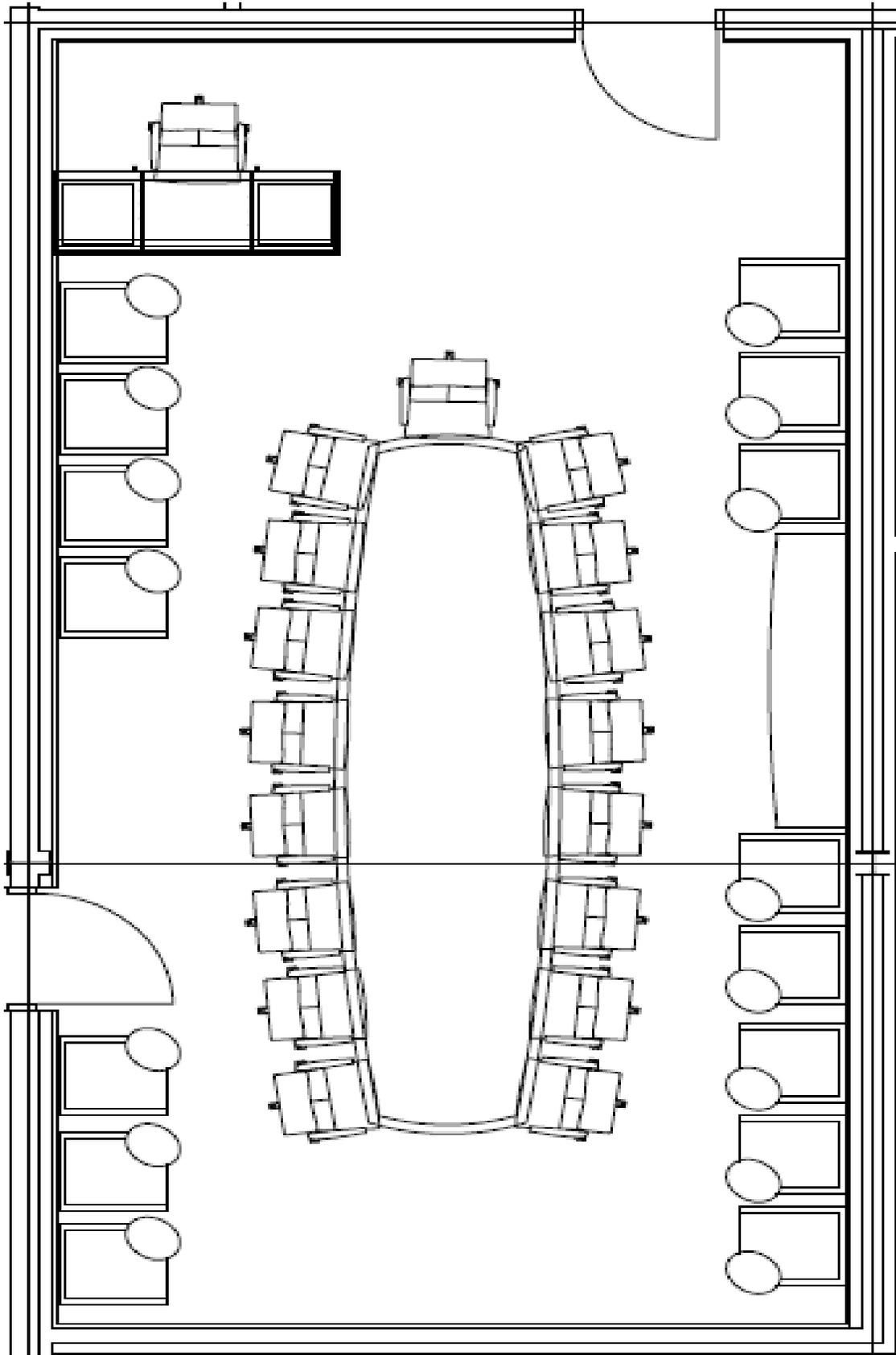
1.2.1 Room shall contain a console station in a separate desk, where two (2) computers reside; one (1) resident desktop and one (1) visiting laptop. This console station shall contain two (2) contractor provided computer monitors (in component list). One monitor shall be a main computer monitor, with a direct connection to the desktop computer, while the other monitor shall be routable, just as all other monitors, from the touch panel.

1.2.2 The console station shall have a Component wall plate that is routable to any display in the system. This source should not route through the VTC system. This plate shall be used for plugging in any legacy source devices (i.e. VHS Player). Controller

source code shall be modified and equipment list shall be updated for this requirement. Changes to the equipment list and programming costs for this capability shall be quoted in the section labeled "Console Equipment".

1.2.3 The meeting table shall have a Component (with audio) plate that is routable to any display in the system. This plate shall be used for plugging in any legacy source devices (i.e. VHS Player). The meeting table shall have USB capability through the DM (or other means) for a keyboard / CAC reader / Mouse. The location of the desktop computer will dictate where the other termination point is. Controller source code shall be modified and equipment list shall be updated for this requirement if necessary. Changes to the equipment list and programming costs for this capability shall be quoted on a separate line.

1.4 Conceptual Drawing for Design Objectives



1.5 Building 200A, Room 1023 (Decker), Large Conference Room, WITH VTC – Materials List

Line	GFE	Qty	Description
1	GFE	1	InFocus IN5535 Projector NOT NEEDED - Use GFE 1 Epson G5200WNL (V11H298920) LCD Projector, No Lens, WXGA, 4200 Lumens, 14.8 lbs. 1 Epson V12H004S03 Standard Zoom Lens, 1.64 - 2.5, for G Series Projectors, ELPLS03
2	GFE	1	Monoprice Standard Speed HDMI to DVI-D Cables 15' - NOT NEEDED Due to Digital Removal
3	GFE	2	Spare Lamps for the above InFocus INI5535 Projector (SP-LAMP-056) - NOT NEEDED - Due to removal of projector above
4	GFE	1	Premier PDS-FCTA4W-QL - Projector Mount Kit - NOT NEEDED - Use GFE Premier PBCFCTA-(PBCUMS & PP-FCTA) Projector Mount and T-Bar Mounting Aedapter Bundle Pack
5	GFE	1	DaLite Advantage Recessed Electric Screen 113" Diagonal Projection Screen With Low Voltage and Manual Override Switch on Wall - NOT NEEDED - Use GFE Draper Ultimate Access Series E Screen Fabric, Motor and Roller assembly with low voltage control LVC-III
6		2	60" LED LCD 1920x1080 Monitor (Required to Project 1680x1050 in PC mode at 16:10 Aspect Ratio without Stretch and without blurring). - ONLY 2 NEEDED - Use GFE for other 2 Samsung Model UN55C6300, 55" LED/LCD displays
7		2	Adjustable Tilting Wall Mount for LCD Chief RMT2/RLT2/RXT2 or similar - ONLY 2 NEEDED -Use GFE for other 2 Chief Wall Mount Brackets for Samsung flat screen displays
8		1	Trendnet TEG-S50G - 5 port switch
9	GFE	2	Extron 12' DVI to DVI cable- NOT NEEDED Due to removal of digital
10		10	5' RJ45 to RJ45 - Black
11		1	Infinix SCM Pro Plenum Box
12	GFE	2	Cable Pass-Through AAP - left BLACK- NOT NEEDED - Use GFE EXTRON 60-526-03 Cable Cubby 300s Brushed Aluminum Finish
13	GFE	1	Crestron TPMC-V12 Tilt B - Wired Touch Panel with enough cable to reach anywhere comfortably on the controller's desk. NOT NEEDED - Use GFE Isys Wireless Control Package w/AV2 - Includes TPS-6X (w/TPS-6X-BTP, TPS-6X-DS, TPS-6X-IMCW, TPS-6X-FP, TPS6X-FP-NB, & PW-1215), CEN-HPRFGW, AV2, C2ENET-1, and (4) IRP2
14	GFE	2	Cable Pass-Through AAP - Right BLACK- NOT NEEDED - Use GFE EXTRON 60-526-03 Cable Cubby 300s Brushed Aluminum Finish
15	GFE	1	Cable Clamp / Pass-Through for Wired Touch Panel- NOT NEEDED - Use GFE EXTRON 60-526-03 Cable Cubby 300s Brushed Aluminum Finish
16	GFE	4	Custom Mounting Bracket for DM-RMC-Scaler-C- NOT NEEDED Due to removal of DMRMC-Scaler-C
17	GFE	1	Crestron MP-WRP181-C-B - Media Presentation Wall Plate 8G+- NOT NEEDED - Use GFE Parts EXTRON 60-506-03 P.2 DA2xi 1x2 VGA-QXGA Distribution Amp EXTRON 60-190-01 1U Universal Rack Shelf Gray 60-046-03 P/2 DA2 Plus, Two Output VGA-QXGA Distribution Amplifier EXTRON 60-758-01 VSW 2 VGA A Switcher, Video, Audio EXTRON 70-077-01 Under Desk Mounting Kit
18	GFE	1	Crestron DM-MD8x8 - 8x8 DigitalMedia Switcher- NOT NEEDED - Use GFE Parts EXTRON 60-506-03 P.2 DA2xi 1x2 VGA-QXGA Distribution Amp EXTRON 60-190-01 1U Universal Rack Shelf Gray 60-046-03 P/2 DA2 Plus, Two Output VGA-QXGA Distribution Amplifier EXTRON 60-758-01 VSW 2 VGA A Switcher, Video, Audio EXTRON 70-077-01 Under Desk Mounting Kit
19		4	Crestron DMC-C - DigitalMedia 8G+ Input Card- NOT NEEDED - Use GFE Parts EXTRON 60-506-03 P.2 DA2xi 1x2 VGA-QXGA Distribution Amp EXTRON 60-190-01 1U Universal Rack Shelf Gray 60-046-03 P/2 DA2 Plus, Two Output VGA-QXGA Distribution Amplifier EXTRON 60-758-01 VSW 2 VGA A Switcher, Video, Audio EXTRON 70-077-01 Under Desk Mounting Kit

20	GFE	1	Crestron DMC-VID-RCA-A - RCA Analog Video Input Card w/Analog Audio for DM Switchers- NOT NEEDED - Use GFE Parts EXTRON 60-506-03 P.2 DA2xi 1x2 VGA-QXGA Distribution Amp EXTRON 60-190-01 1U Universal Rack Shelf Gray 60-046-03 P/2 DA2 Plus, Two Output VGA-QXGA Distribution Amplifier EXTRON 60-758-01 VSW 2 VGA A Switcher, Video, Audio EXTRON 70-077-01 Under Desk Mounting Kit
21	GFE	2	Crestron DMC-DVI - DVI/RGB Input Card for DM Switchers- NOT NEEDED - Use GFE Parts EXTRON 60-506-03 P.2 DA2xi 1x2 VGA-QXGA Distribution Amp EXTRON 60-190-01 1U Universal Rack Shelf Gray 60-046-03 P/2 DA2 Plus, Two Output VGA-QXGA Distribution Amplifier EXTRON 60-758-01 VSW 2 VGA A Switcher, Video, Audio EXTRON 70-077-01 Under Desk Mounting Kit
22	GFE	1	Crestron DMCO-53 - Output Card for DigitalMedia Switcher- NOT NEEDED - Use GFE Parts EXTRON 60-506-03 P.2 DA2xi 1x2 VGA-QXGA Distribution Amp EXTRON 60-190-01 1U Universal Rack Shelf Gray 60-046-03 P/2 DA2 Plus, Two Output VGA-QXGA Distribution Amplifier EXTRON 60-758-01 VSW 2 VGA A Switcher, Video, Audio EXTRON 70-077-01 Under Desk Mounting Kit
23	GFE	1	Crestron DMCO-55 - Output Card for DigitalMedia Switcher- NOT NEEDED - Use GFE Parts EXTRON 60-506-03 P.2 DA2xi 1x2 VGA-QXGA Distribution Amp EXTRON 60-190-01 1U Universal Rack Shelf Gray 60-046-03 P/2 DA2 Plus, Two Output VGA-QXGA Distribution Amplifier EXTRON 60-758-01 VSW 2 VGA A Switcher, Video, Audio EXTRON 70-077-01 Under Desk Mounting Kit
24	GFE	1	Crestron CP3- NOT NEEDED - Use GFE Isys Wireless Control Package w/AV2 - Includes TPS-6X (w/TPS-6X-BTP, TPS-6X-DS, TPS-6X-IMCW, TPS-6X-FP, TPS6X-FP-NB, & PW-1215), CENHPRFGW, AV2, C2ENET-1, and (4) IRP2
25	GFE	1	Crestron DM-TX-200-C-2G-B-T - Wall Plate DigitalMedia 8G+ Transmitter 200 -NOT NEEDED - Use GFE Parts EXTRON 60-506-03 P.2 DA2xi 1x2 VGA-QXGA Distribution Amp EXTRON 60-190-01 1U Universal Rack Shelf Gray 60-046-03 P/2 DA2 Plus, Two Output VGA-QXGA Distribution Amplifier EXTRON 60-758-01 VSW 2 VGA A Switcher, Video, Audio EXTRON 70-077-01 Under Desk Mounting Kit
26	GFE	3	Crestron DM-TX-201-C - DigitalMedia 8G+ Transmitter 201 - NOT NEEDED - Use GFE Parts EXTRON 60-506-03 P.2 DA2xi 1x2 VGA-QXGA Distribution Amp EXTRON 60-190-01 1U Universal Rack Shelf Gray 60-046-03 P/2 DA2 Plus, Two Output VGA-QXGA Distribution Amplifier EXTRON 60-758-01 VSW 2 VGA A Switcher, Video, Audio EXTRON 70-077-01 Under Desk Mounting Kit
27	GFE	6	Crestron DM-RMC-SCALER-C - DigitalMedia 8G+ Receiver - NOT NEEDED - Use GFE Parts EXTRON 60-506-03 P.2 DA2xi 1x2 VGA-QXGA Distribution Amp EXTRON 60-190-01 1U Universal Rack Shelf Gray 60-046-03 P/2 DA2 Plus, Two Output VGA-QXGA Distribution Amplifier EXTRON 60-758-01 VSW 2 VGA A Switcher, Video, Audio EXTRON 70-077-01 Under Desk Mounting Kit
28		1	Crestron CEN-SW-POE-5 - 5 Port Power Over Ethernet Switch
29		2	Crestron CBL-HD-DVI-6 - HDMI to DVI Interface Cable - NOT NEEDED Due to Digital Removal
30		5	Extron MDC HDMI - 3' MicroDigital HDMI Cable NOT NEEDED Due to Digital Removal
31		4	Extron MDC HDMI - 6' MicroDigital Ultra Flexible HDMI Cable - NOT NEEDED Due to Digital Removal
32		5	Extron MVGA-A M-M - 6' Micro VGA Cable with Audio
33	GFE	2	Extron FF 220T Ceiling - 2x2 Drop-IN, Transformer, Pair (Speaker) - NOT NEEDED - Replace with GFE JBL Control 24CT 4 Ceiling Speaker w/transformer

34	GFE	1	Extron XPA2001 Audio Amplifier NOT NEEDED - Use GFE Australian Moonitor AMC60, 60 Watt Power amplifier/mixer. Rackmountable.
35	GFE	1	Walta (Codec Side) to RJ-45F Adapter Cable - NOT NEEDED due to use of GFE Codec
36		1	Composite Passive Wall Plate
37	GFE	3	Extron Cable Cubby 600 60-525-01 with all necessary inserts for this install. This would include electrical blocks, Kingston blocks, USB blocks or any other block required for this installation. NOT NEEDED - Use GFE EXTRON 60-526-03 Cable Cubby 300s Brushed Aluminum Finish
38		1	Low Profile Floor-Mount Raceway System for A/V Connectivity to Table with ALL necessary inserts required for this install. This would include electrical blocks, Kingston blocks or any other block required for this installation.
39	GFE	1	Sound Structure C16 - Sixteen Channel AEC / Noise Canceller / Feedback Reduction - NOT NEEDED Use GFE Polycom HDX Ceiling Microphone Array Polycom HDX Ceiling Microphone Array Extension Kit
40	GFE	1	One Year Warranty for C16 Sound Structure - NOT NEEDED Due to removal of SoundStructure C16
41	GFE	1	Sound Structure TEL1 - Single-Line PSTN Interface for SoundStructure - NOT NEEDED Due to removal of SoundStructure C16
42	GFE	12	BeyerDynamic BM34W Ceiling Microphone- NOT NEEDED Use GFE Polycom HDX Ceiling Microphone Array Polycom HDX Ceiling Microphone Array Extension Kit
43	GFE	1	Polycom TAA Compliant HDX 8000 1080: Incl: HD Codec, Eagle Eye HD Camera, HDX Mic Array, P+C, English Remote. Cables: 2 Sets Of Component Video (Dvito-RCA), Audio, HD & Multipoint License key installed and activated. - NOT NEEDED Use GFE Polycom HDX 8000-720: HDX 8000 HD CODEC, Eagle Eye HD Camera, HDX Mic array, P+C, PPCIP, PoC, Eng. Rmt. Cables: 2 component video (DVI-RCA), Audio (RCA-RCA). LAN, NA pwr. Cntry Code 54.
44	GFE	1	One Year Warranty for HDX 8000 Series NOT NEEDED Use GFE Polycom HDX 8000-720: HDX 8000 HD CODEC, Eagle Eye HD Camera, HDX Mic array, P+C, PPCIP, PoC, Eng. Rmt. Cables: 2 component video (DVI-RCA), Audio (RCA-RCA). LAN, NA pwr. Cntry Code 54.
45	GFE	1	Quad BRI Module for HDX Series, Includes four ISDN 20ft/6m Cables - NOT NEEDED Use GFE Polycom Quad GBRI Module for the HDX Series.
46	GFE	1	NT512 Network Terminator - NOT NEEDED Use GFE Polycom QUAD NT1
47	GFE	1	Eagle Eye Camera Mounting Shelf - NOT NEEDED - Use GFE Vaddio Wall View Pro Eagle Eye Camera Control Unit
48		1	Auxiliary Power Supply for Camera
49		1	HDX Adapter for HDCI
50		1	Middle Atlantic WRK-37-SA 32" Outside Depth Rack
51		1	Caster Base for Middle Atlantic WRK Rack
52		1	Locking Plexi Door for Middle Atlantic Rack
53		1	Top Extraction Fan for Middle Atlantic Rack
54		1	Middle Atlantic UQFP-2 Ultra Quiet Fan Panel Thermal Management
55		1	Middle Atlantic PD-915R 120 Volt Rack mount Power Strips
56		1	Tripp-Lite SMART1500 LCD SmartPro Digital UPS - Line-Interactive
57		2	Samsung SyncMaster P2230 Monitors (for Control Desk) with any/all connections and cables necessary for this install.
58		1	4 port Ultra Mini USB 2.0 Hub
59		3	Extron MVGA-A M-M/12 - 12'(3.6m) Male to Male 15-Pin HD Micro HR with Audio

60		1	Miscellaneous (for wire, various misc. connectors, or anything else needed for install).
61		3	Wireless Presenter with Laser Pointer, model 33374, (http://www.kensington.com/kensington/us/us/p/1443/K33374USA/wireless-presenter-with-laser-pointer.aspx or similar)
62		2	3.5mm Stereo audio splitter cable - (032HF Audio Cable) or similar
63		4	StarTech.com USB B to USB A Cable Adapter (USB Adapter - 4 pin USB Type A (F) - 4 pin USB Type B (M) http://www.startech.com/Cables/USB-2.0/USB-Adapters/Adapter-USB-B-Male-to-USB-A-Female-#GCUSBABFM) or similar
64		4	USB 2.0 A(F) / A(M) Extension Cable 10ft. (STARTECH.com 10ft USB 2.0 Extension Cable A to A M/F # USBEXTAA10) or similar
65		1	Crestron DMPS-300 Digital Media Presentation System
66		1	Crestron TPS-6 5.7" Touchpanel
67		5	Crestron DM-TX-201-C DM 8G+ Transmitter VGA\HDMI
68		5	Crestron DM-RMC-SCALER-C DM 8G+ Reciever
69		2	Crestron CEN-SWPOE-5 5-Port POE Switch
70		1	Crestron HD-DA-2
71		1	Crestron AMP-2210HT Amplifier
72		1	Soundstructure8 System w/TEL1 Card with 1 year warranty
			Labor, System Integration & Training
			Standard & Preventive Maintenance
			Shipping & Handling

Task 2 - Building 201, Room 107, Large Conference Room, WITH VTC (Quantity 1)**2.1 Description of Location**

2.1.1 This task is an upgrade to an existing system. The existing room already has an older, malfunctioning system installed and all system components that are not re-useable, must be removed from the room by the contractor prior to installing the new system. Though the VTC is an older VSX 4000, it still works and shall be incorporated into the new design. All other parts are to be determined by the contractor as to whether or not they are or are not usable. Disposal of old equipment shall be the responsibility of the Government.

2.1.2 An equipment/parts list is listed below. Please refer to addendum 12.1.1, below, for a nearly complete GFE system. Under this task, the contractor shall reuse (and reconfigure) the GFE equipment from addendum 12.1.1 (to the highest extent possible), by substituting the listed equipment/parts for GFE in addendum 12.1.1, and shall provide any equipment or materials not found in the GFE addendum 12.1.1, along with integration labor for **Building 201, Room 107, Large Conference Room, WITH VTC (Quantity 1)**. Changes to the equipment list will need to be made to accommodate the GFE. **If GFE for each task is analog, please disregard any reference to digital components in the materials list.**

1

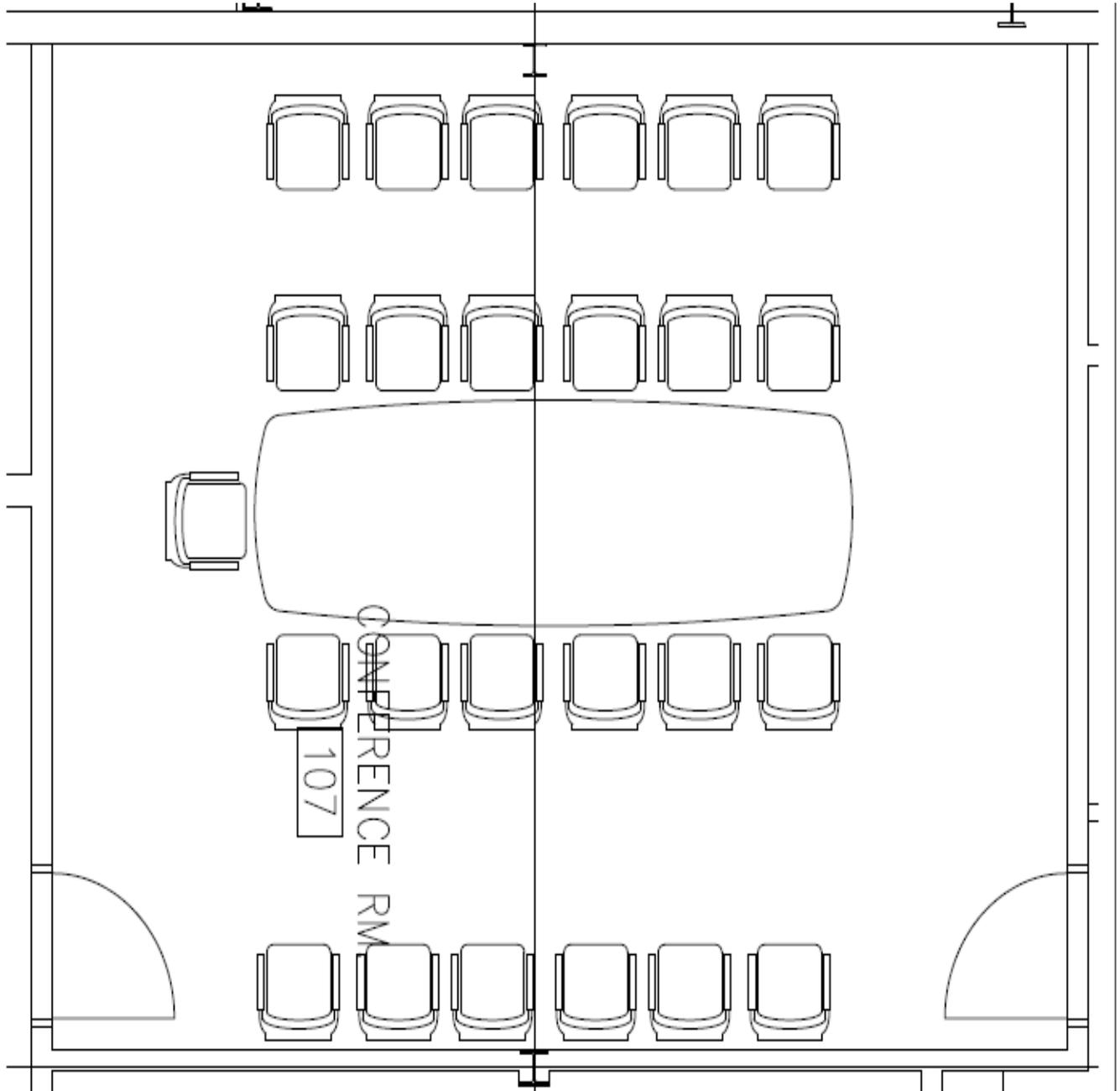
2.2 Console Station

2.2.1 Room shall contain a console station in a separate desk, where two (2) computers reside; one (1) resident desktop and one (1) visiting laptop. This console station shall contain two (2) contractor provided computer monitors (in component list). One monitor shall be a main computer monitor, with a direct connection to the desktop computer, while the other monitor shall be routable, just as all other monitors, from the touch panel.

2.2.2 The console station shall have a Component wall plate that is routable to any display in the system. This source should not route through the VTC system. This plate shall be used for plugging in any legacy source devices (i.e. VHS Player). Controller source code shall be modified and equipment list shall be updated for this requirement. Changes to the equipment list and programming costs for this capability shall be quoted in a separate section.

2.2.3 The meeting table shall have a Component (with audio) plate that is routable to any display in the system. This plate shall be used for plugging in any legacy source devices (i.e. VHS Player). The meeting table shall have USB capability through the DM (or other means) for a keyboard / CAC reader / Mouse. The location of the desktop computer will dictate where the other termination point is. Controller source code shall be modified and equipment list shall be updated for this requirement if necessary. Changes to the equipment list and programming costs for this capability shall be quoted on a separate line.

2.4 Conceptual Drawing for Design Objectives



2.5 Building 201, Room 107, Large Conference Room, WITH VTC (Quantity 1) - Materials List

Line	GFE	Qty	Description
1	GFE	1	InFocus IN5535 Projector - REPLACED WITH - GFE Line Item 9 Projector with mount Barco IQ-R500 Barco IQ-R500
2	GFE	1	Monoprice Standard Speed HDMI to DVI-D Cables 15' - NOT NEEDED WITH REMOVAL OF DIGITAL
3	GFE	2	Spare Lamps for the above InFocus INI5535 Projector (SP-LAMP-056) - NOT NEEDED DUE TO REMOVAL OF PROJECTOR ABOVE
4	GFE	1	Premier PDS-FCTA4W-QL - Projector Mount Kit - REPLACED WITH - GFE Line Item 9 Projector with mount Barco IQ-R500
5	GFE	1	DaLite Advantage Recessed Electric Screen 113" Diagonal Projection Screen With Low Voltage and Manual Override Switch on Wall - REPLACED WITH - GFE Line Item 13 - Projection Screen Stewart Filmscreen VE120VGHRSG3W
6		4	60" LED LCD 1920x1080 Monitor (Required to Project 1680x1050 in PC mode at 16:10 Aspect Ratio without Stretch and without blurring).
7		4	Adjustable Tilting Wall Mount for LCD Chief RMT2/RLT2/RXT2 or similar
8		1	Trendnet TEG-S50G - 5 port switch
9	GFE	2	Extron 12' DVI to DVI cable - NOT NEEDED WITH REMOVAL OF DIGITAL
10		10	5' RJ45 to RJ45 - Black
11		1	Infinix SCM Pro Plenum Box
12		2	Cable Pass-Through AAP - left BLACK
13	GFE	1	Crestron TPMC-V12 Tilt B - Wired Touch Panel with enough cable to reach anywhere comfortably on the controller's desk - REPLACED WITH GFE Line Item 15 Touch Panel Crestron TPS-3000
14		2	Cable Pass-Through AAP - Right BLACK
15		1	Cable Clamp / Pass-Through for Wired Touch Panel
16	GFE	4	Custom Mounting Bracket for DM-RMC-Scaler-C. - REPLACED WITH - GFE Line Items 4 and 5 - Audio Matrix Switcher (In Rack) Auto Patch PR-1208 and AV Matrix Switcher (In Rack) Extron MAV Plus Series
17	GFE	1	Crestron MP-WRP181-C-B - Media Presentation Wall Plate 8G+. - REPLACED WITH - GFE Line Items 4 and 5 - Audio Matrix Switcher (In Rack) Auto Patch PR-1208 and AV Matrix Switcher (In Rack) Extron MAV Plus Series
18	GFE	1	Crestron DM-MD8x8 - 8x8 DigitalMedia Switcher. - REPLACED WITH - GFE Line Items 4 and 5 - Audio Matrix Switcher (In Rack) Auto Patch PR-1208 and AV Matrix Switcher (In Rack) Extron MAV Plus Series
19	GFE	4	Crestron DMC-C - DigitalMedia 8G+ Input Card. - REPLACED WITH - GFE Line Items 4 and 5 - Audio Matrix Switcher (In Rack) Auto Patch PR-1208 and AV Matrix Switcher (In Rack) Extron MAV Plus Series
20	GFE	1	Crestron DMC-VID-RCA-A - RCA Analog Video Input Card w/Analog Audio for DM Switchers. - REPLACED WITH - GFE Line Items 4 and 5 - Audio Matrix Switcher (In Rack) Auto Patch PR-1208 and AV Matrix Switcher (In Rack) Extron MAV Plus Series

21	GFE	2	Crestron DMC-DVI - DVI/RGB Input Card for DM Switchers. - REPLACED WITH - GFE Line Items 4 and 5 - Audio Matrix Switcher (In Rack) Auto Patch PR-1208 and AV Matrix Switcher (In Rack) Extron MAV Plus Series
22	GFE	1	Crestron DMCO-53 - Output Card for DigitalMedia Switcher. - REPLACED WITH - GFE Line Items 4 and 5 - Audio Matrix Switcher (In Rack) Auto Patch PR-1208 and AV Matrix Switcher (In Rack) Extron MAV Plus Series
23	GFE	1	Crestron DMCO-55 - Output Card for DigitalMedia Switcher. - REPLACED WITH - GFE Line Items 4 and 5 - Audio Matrix Switcher (In Rack) Auto Patch PR-1208 and AV Matrix Switcher (In Rack) Extron MAV Plus Series
24	GFE	1	Crestron CP3 - NOT NEEDED - Replaced with GFE Line 3 Control Processor Crestron Pro 2
25	GFE	1	Crestron DM-TX-200-C-2G-B-T - Wall Plate DigitalMedia 8G+ Transmitter 200. - REPLACED WITH - GFE Line Items 4 and 5 - Audio Matrix Switcher (In Rack) Auto Patch PR-1208 and AV Matrix Switcher (In Rack) Extron MAV Plus Series
26	GFE	3	Crestron DM-TX-201-C - DigitalMedia 8G+ Transmitter 201. - REPLACED WITH - GFE Line Items 4 and 5 - Audio Matrix Switcher (In Rack) Auto Patch PR-1208 and AV Matrix Switcher (In Rack) Extron MAV Plus Series
27	GFE	6	Crestron DM-RMC-SCALER-C - DigitalMedia 8G+ Receiver. - REPLACED WITH - GFE Line Items 4 and 5 - Audio Matrix Switcher (In Rack) Auto Patch PR-1208 and AV Matrix Switcher (In Rack) Extron MAV Plus Series
28		1	Crestron CEN-SW-POE-5 - 5 Port Power Over Ethernet Switch
29	GFE	2	Crestron CBL-HD-DVI-6 - HDMI to DVI Interface Cable - NOT NEEDED WITH REMOVAL OF DIGITAL
30	GFE	5	Extron MDC HDMI - 3' MicroDigital HDMI Cable - NOT NEEDED WITH REMOVAL OF DIGITAL
31	GFE	4	Extron MDC HDMI - 6' MicroDigital Ultra Flexible HDMI Cable - NOT NEEDED WITH REMOVAL OF DIGITAL
32		5	Extron MVGA-A M-M - 6' Micro VGA Cable with Audio
33		2	Extron FF 220T Ceiling - 2x2 Drop-IN, Transformer, Pair (Speaker)
34	GFE	1	Extron XPA2001 Audio Amplifier - NOT NEEDED - Replaced with GFE Line 7 Power Amplifier Crown 660A
35	GFE	1	Walta (Codec Side) to RJ-45F Adapter Cable - NOT NEEDED due to removal of HDX 8000
36		1	Composite Passive Wall Plate
37		3	Extron Cable Cubby 600 60-525-01 with all necessary inserts for this install. This would include electrical blocks, Kingston blocks, USB blocks or any other block required for this installation.
38		1	Low Profile Floor-Mount Raceway System for A/V Connectivity to Table with ALL necessary inserts required for this install. This would include electrical blocks, Kingston blocks or any other block required for this installation.
39	GFE	1	Sound Structure C16 - Sixteen Channel AEC / Noise Canceller / Feedback Reduction - NOT NEEDED - Replaced with GFE Line 2 A/V Conference Processor Clear One XAP 400
40	GFE	1	One Year Warranty for C16 Sound Structure - NOT NEEDED due to removal of Sound Structure C16
41	GFE	1	Sound Structure TEL1 - Single-Line PSTN Interface for SoundStructure - NOT NEEDED due to removal of Sound Structure C16

42	GFE	12	BeyerDynamic BM34W Ceiling Microphone - NOT NEEDED - Replaced with GFE Line 16 Microphone Shure Microflex MX392/C
43	GFE	1	Polycom TAA Compliant HDX 8000 1080: Incl: HD Codec, Eagle Eye HD Camera, HDX Mic Array, P+C, English Remote. Cables: 2 Sets Of Component Video (Dvito-RCA), Audio, HD & Multipoint License key installed and activated. NOT NEEDED - Replaced with GFE requested in quote VSX-4000
44	GFE	1	One Year Warranty for HDX 8000 Series - NOT NEEDED due to removal of HDX 8000
45	GFE	1	Quad BRI Module for HDX Series, Includes four ISDN 20ft/6m Cables - NOT NEEDED due to removal of HDX 8000
46	GFE	1	NT512 Network Terminator - NOT NEEDED due to removal of HDX 8000
47	GFE	1	Eagle Eye Camera Mounting Shelf - NOT NEEDED due to removal of HDX 8000
48	GFE	1	Auxiliary Power Supply for Camera - NOT NEEDED due to removal of HDX 8000
49	GFE	1	HDX Adapter for HDCI - NOT NEEDED due to removal of HDX 8000
50	GFE	1	Middle Atlantic WRK-37-SA 32" Outside Depth Rack - NOT NEEDED - Replaced with GFE Line 1 Component Rack Model NA
51	GFE	1	Caster Base for Middle Atlantic WRK Rack - NOT NEEDED due to removal of Middle Atlantic WRK-37-SA
52	GFE	1	Locking Plexi Door for Middle Atlantic Rack - NOT NEEDED due to removal of Middle Atlantic WRK-37-SA
53	GFE	1	Top Extraction Fan for Middle Atlantic Rack - NOT NEEDED due to removal of Middle Atlantic WRK-37-SA
54	GFE	1	Middle Atlantic UQFP-2 Ultra Quiet Fan Panel Thermal Management - NOT NEEDED due to removal of Middle Atlantic WRK-37-SA
55	GFE	1	Middle Atlantic PD-915R 120 Volt Rack mount Power Strips - NOT NEEDED due to removal of Middle Atlantic WRK-37-SA
56		1	Tripp-Lite SMART1500 LCD SmartPro Digital UPS - Line-Interactive
57		2	Samsung SyncMaster P2230 Monitors (for Control Desk) with any/all connections and cables necessary for this install.
58		1	4 port Ultra Mini USB 2.0 Hub
59		3	Extron MVGA-A M-M/12 - 12'(3.6m) Male to Male 15-Pin HD Micro HR with Audio
60		1	Miscellaneous (for wire, various misc. connectors, or anything else needed for install).
61		3	Wireless Presenter with Laser Pointer, model 33374. (http://www.kensington.com/kensington/us/us/p/1443/K33374USA/wireless-presenter-with-laser-pointer.aspx or similar)
62		2	3.5mm Stereo audio splitter cable - (032HF Audio Cable) or similar
63		4	StarTech.com USB B to USB A Cable Adapter (USB Adapter - 4 pin USB Type A (F) - 4 pin USB Type B (M). http://www.startech.com/Cables/USB-2.0/USB-Adapters/Adapter-USB-B-Male-to-USB-A-Female#GCUSBABFM or similar
64		4	USB 2.0 A(F) / A(M) Extension Cable 10ft. (STARTECH.com 10ft USB 2.0 Extension Cable A to A M/F # USBEXTAA10) or similar
			Labor, System Integration & Training
			Standard & Preventive Maintenance

			Shipping & Handling
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Task 3 - Building 212B, Room 1E043-T, Small Conference Room, NO VTC (Quantity 1)**3.1 Description of Location**

3.1.1 Under this task, the contractor shall incorporate GFE, and shall provide any additional equipment (materials) and integration labor for presentation system for the **Building 212B, Room 1E043-T, Small Conference Room, NO VTC (Quantity 1)**.

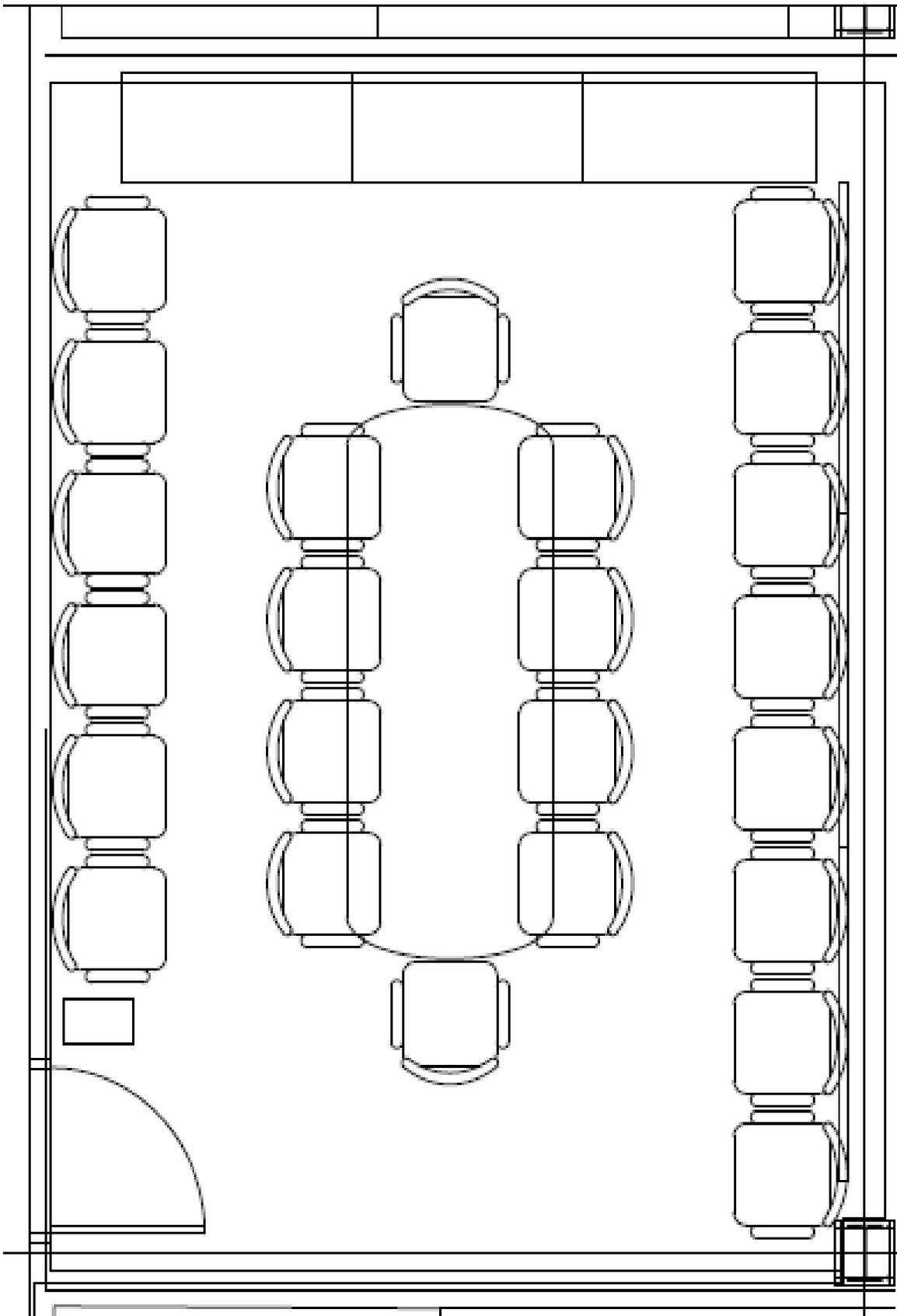
3.1.2 An equipment/parts list is listed below. Please refer to addendum 12.1.2, below, for a nearly complete GFE system. Under this task, the contractor shall reuse (and reconfigure) the GFE equipment from addendum 12.1.2 (to the highest extent possible), by substituting the listed equipment/parts for GFE in addendum 12.1.2, and shall provide any equipment or materials not found in the GFE addendum 12.1.2, along with integration labor for **Building 212B, Room 1E043-T, Small Conference Room, NO VTC (Quantity 1)**. Changes to the equipment list will need to be made to accommodate the GFE. **If GFE for each task is analog, please disregard any reference to digital components in the materials list.**

3.2 Console Station

3.2.1 Room shall contain a console station on the meeting table, where two (2) laptop connections reside, a resident desktop that is in or near the A/V rack. This room will have a credenza style A/V rack purchased by TARDEC to match the table. Changes to the equipment list may need to be made to accommodate the TARDEC supplied credenza style A/V rack and shall be quoted on a separate line.

3.2.2 The meeting table shall have a Component (with audio) plate that is routable to any display in the system. This plate shall be used for plugging in any legacy source devices (i.e. VHS Player). The meeting table shall have USB capability through the DM for a keyboard / CAC reader / Mouse. The location of the desktop computer will dictate where the other termination point is. Controller source code shall be modified and equipment list shall be updated for this requirement if necessary. Changes to the equipment list and programming costs for this capability shall be quoted on a separate line.

3.5 Conceptual Drawing for Design Objectives



3.6 Building 212B, Room 1E043-T, Small Conference Room, NO VTC (Quantity 1) – Materials List

Line	GFE	Qty	Description
1		1	Crestron CEN-SW-POE - 5 Port Power Over Ethernet Switch
2		1	Smart 1500LCD Tripp Lite 1500VA Digi
3		1	N82E16833156251 TRENDnet TEG-s80g 5-Port Gigabit Green
4		1	IUQFP-2 Int Ultra QFP 2 Fan LED
5		2	12' DVI to DVI cable - NOT NEEDED DUE TO REMOVAL OF DIGITAL
6		1	Infinix SCM Pro Plenum Box
7	GFE	1	InFocus IN5110 Projector - 1920x1200, 4200 ANSI Lumens, 5000:1 Contrast, must be able to display 1680x1050 clearly - REPLACED WITH GFE Line Item 1 Projector with Ceiling Mount Canon SX800
8	GFE	2	Spare Lamp for Projector above - NOT NEEDED DUE TO REMOVAL OF PROJECTOR ABOVE
9	GFE	1	Premier PDS-FCTA4W-QL - Projector Mount Kit REPLACED WITH GFE Line Item 1 Projector with Ceiling Mount Canon SX800
10		1	DaLite Advantage Recessed Electric Screen 94" diagonal projection screen with low voltage control and manual override switch on wall
11	GFE	1	Crestron DM-MD8x8 - 8x8 Digital Media Server - REPLACED WITH GFE Line Items 9, 11 and 12 - Wide Range Receiver (In Rack) HT-R570 and Audio Matrix Switcher (In Rack) Extron MUX44VGA A and AV Distribution Amplifier (In Rack) Extron MDA4VEQ
12	GFE	2	Crestron DMC-C - Digital Media 8G+ Input Card REPLACED WITH GFE Line Items 9, 11 and 12 - Wide Range Receiver (In Rack) HT-R570 and Audio Matrix Switcher (In Rack) Extron MUX44VGA A and AV Distribution Amplifier (In Rack) Extron MDA4VEQ
13	GFE	1	Crestron DMC-VGA/Video Input Card For DM Switcher REPLACED WITH GFE Line Items 9, 11 and 12 - Wide Range Receiver (In Rack) HT-R570 and Audio Matrix Switcher (In Rack) Extron MUX44VGA A and AV Distribution Amplifier (In Rack) Extron MDA4VEQ
14	GFE	1	Crestron DMC-VID-RCA-A - RCA Analog Video Input Card w/Analog Audio for DM Switchers REPLACED WITH GFE Line Items 9, 11 and 12 - Wide Range Receiver (In Rack) HT-R570 and Audio Matrix Switcher (In Rack) Extron MUX44VGA A and AV Distribution Amplifier (In Rack) Extron MDA4VEQ
15	GFE	2	Crestron DMC-DVI - DVI/RDB Input Card for DM Switchers REPLACED WITH GFE Line Items 9, 11 and 12 - Wide Range Receiver (In Rack) HT-R570 and Audio Matrix Switcher (In Rack) Extron MUX44VGA A and AV Distribution Amplifier (In Rack) Extron MDA4VEQ
16	GFE	1	Crestron DMCO-53 - Output Card for Digital Media Server REPLACED WITH GFE Line Items 9, 11 and 12 - Wide Range Receiver (In Rack) HT-R570 and Audio Matrix Switcher (In Rack) Extron MUX44VGA A and AV Distribution Amplifier (In Rack) Extron MDA4VEQ

17	GFE	1	DMCO-50 - Output Card for Digital Media Switcher REPLACED WITH GFE Line Items 9, 11 and 12 - Wide Range Receiver (In Rack) HT-R570 and Audio Matrix Switcher (In Rack) Extron MUX44VGA A and AV Distribution Amplifier (In Rack) Extron MDA4VEQ
18	GFE	2	Crestron DM-TX-201-C Digital Media 8G+ Transmitter 201 REPLACED WITH GFE Line Items 9, 11 and 12 - Wide Range Receiver (In Rack) HT-R570 and Audio Matrix Switcher (In Rack) Extron MUX44VGA A and AV Distribution Amplifier (In Rack) Extron MDA4VEQ
19	GFE	4	Crestron DM-RMC-Scaler-C - Digital Media 8G+ Receiver REPLACED WITH GFE Line Items 9, 11 and 12 - Wide Range Receiver (In Rack) HT-R570 and Audio Matrix Switcher (In Rack) Extron MUX44VGA A and AV Distribution Amplifier (In Rack) Extron MDA4VEQ
20	GFE	1	Crestron CBL-HD-DVI-6 - HDMI to DVI Interface Cable REPLACED WITH GFE Line Items 9, 11 and 12 - Wide Range Receiver (In Rack) HT-R570 and Audio Matrix Switcher (In Rack) Extron MUX44VGA A and AV Distribution Amplifier (In Rack) Extron MDA4VEQ
21	GFE	1	Crestron CP3 Control Processor - NOT NEEDED - Replaced with GFE Line 7 Control Processor Crestron Pro 2
22	GFE	3	Extron MDC HDMI - 3' MicroDigital HDMI Cable - NOT NEEDED DUE TO REMOVAL OF DIGITAL
23	GFE	2	Extron MDC HDMI - 6' Micro Digital Ultra Flexible HDMI Cable - NOT NEEDED DUE TO REMOVAL OF DIGITAL
24		3	Extron MVGA-A M-M - 6' Micro VGA Cable With Audio
25		3	Extron MVGA-A M-M/12 - 12'(3.6m) Male to Male 15-Pin HD Micro HR with Audio
26	GFE	1	Extron FF 220T Ceiling - 2x2 Drop-IN, Transformer, Pair (Speaker) REPLACED WITH - GFE Line Item 2 Ceiling Speakers JBL K24T
27	GFE	1	Extron MPA401T Audio Amplifier REPLACED WITH GFE Line Item 13 Mixer Power Amplifier (In Rack) TOA BG1030
28		4	Beyerdynamic BM34W Ceiling Microphones
29	GFE	1	Polycom SoundStructure C8 - Eight-Channel AEC / Noise Canceller / Feedback reduction w/ Auto Mic Mixing and Matrix Mixer REPLACED WITH - GFE Line Item 10 A/V Conference Processor (In Rack) Clear One XAP400
30	GFE	1	Warranty for SoundStructure C8 Series - NOT NEEDED DUE TO REMOVAL OF SOUNDSTRUCTURE C8
31	GFE	1	Polycom SoundStructure TEL1 - single-line PSTN Interface for SoundStructure C-Series and SR-series Products - NOT NEEDED DUE TO REMOVAL OF SOUNDSTRUCTURE C8
32	GFE	1	Crestron TPS-6X Wireless (RF) Touch Panel REPLACED WITH GFE Line Item 14 Touchpanel Crestron TPS-3000
33	GFE	1	Crestron CEN-HPRFGW - Extended Range RF Wireless Gateway REPLACED WITH GFE Line Item 6 Interface Module (In Rack) Creston TPS-IMPC
34		1	Middle Atlantic UQFP-2 Ultra Quiet Fan Panel Thermal Management
35	GFE	1	Middle Atlantic PD-915R 120 Volt Rack mount Power Strips - NOT NEEDED - Replaced with GFE Line 5 Power Container Furman PL-8C
36		1	Miscellaneous Materials

37		2	USB Cables
38		1	4 port Ultra Mini USB 2.0 Hub
39		13	5' RJ45 to RJ45 - Black
40		2	Cable Pass-Through AAP - Left BLACK
41		2	Cable Pass-Through AAP - Right BLACK
42		1	Cable Clamp / Pass-Through for Wired Touch Panel
43		1	Custom Composite Video with 2 RCA audio aux Plate
44	GFE	2	Custom Mounting Bracket for DM-RMC-SCALER-C REPLACED WITH GFE Line Items 9, 11 and 12 - Wide Range Receiver (In Rack) HT-R570 and Audio Matrix Switcher (In Rack) Extron MUX44VGA A and AV Distribution Amplifier (In Rack) Extron MDA4VEQ
45		2	4 port Ultra Mini USB 2.0 Hub (same as above, but deliverable only)
46		3	Extron MVGA-A M-M/12 - 12'(3.6m) Male to Male 15-Pin HD Micro HR with Audio (deliverable only)
47		2	Extron Cable Cubby 600 60-525-01 with all necessary inserts for this install. This would include (but not be limited to) electrical blocks, Kingston blocks, USB blocks or any other block required for this installation.
48		3	Wireless Presenter with Laser Pointer, model 33374, (http://www.kensington.com/kensington/us/us/p/1443/K33374USA/wireless-presenter-with-laser-pointer.aspx or similar)
49		2	3.5mm Stereo audio splitter cable - (032HF Audio Cable) or similar
50		4	StarTech.com USB B to USB A Cable Adapter (USB Adapter - 4 pin USB Type A (F) - 4 pin USB Type B (M) http://www.startech.com/Cables/USB-2.0/USB-Adapters/Adapter-USB-B-Male-to-USB-A-Female-#GCUSBABFM) or similar
51		4	USB 2.0 A(F) / A(M) Extension Cable 10ft. (STARTECH.com 10ft USB 2.0 Extension Cable A to A M/F # USBEXTAA10) or similar
			Installation Material
			Labor, System Integration & Training
			Standard & Preventive Maintenance
			Shipping & Handling

Task 4 - Building 200A, Second Floor, Room 2190, Small Conference Room, WITH VTC (Quantity 1)**4.1 Description of Location**

4.1.1 Under this task, the contractor shall incorporate GFE, and provide any additional equipment (materials) and integration labor for Building 200A, Second Floor, Room 2190, Small Conference Room, WITH VTC (Quantity 1). The VTC unit that will be installed (along with two flat panels and some other electronics) is listed out addendum 12.1.3, below. This VTC system works, and shall be incorporated into the new design. All other parts are to be determined by the contractor as to whether or not they are or are not usable. Disposal of old equipment shall be the responsibility of the Government.

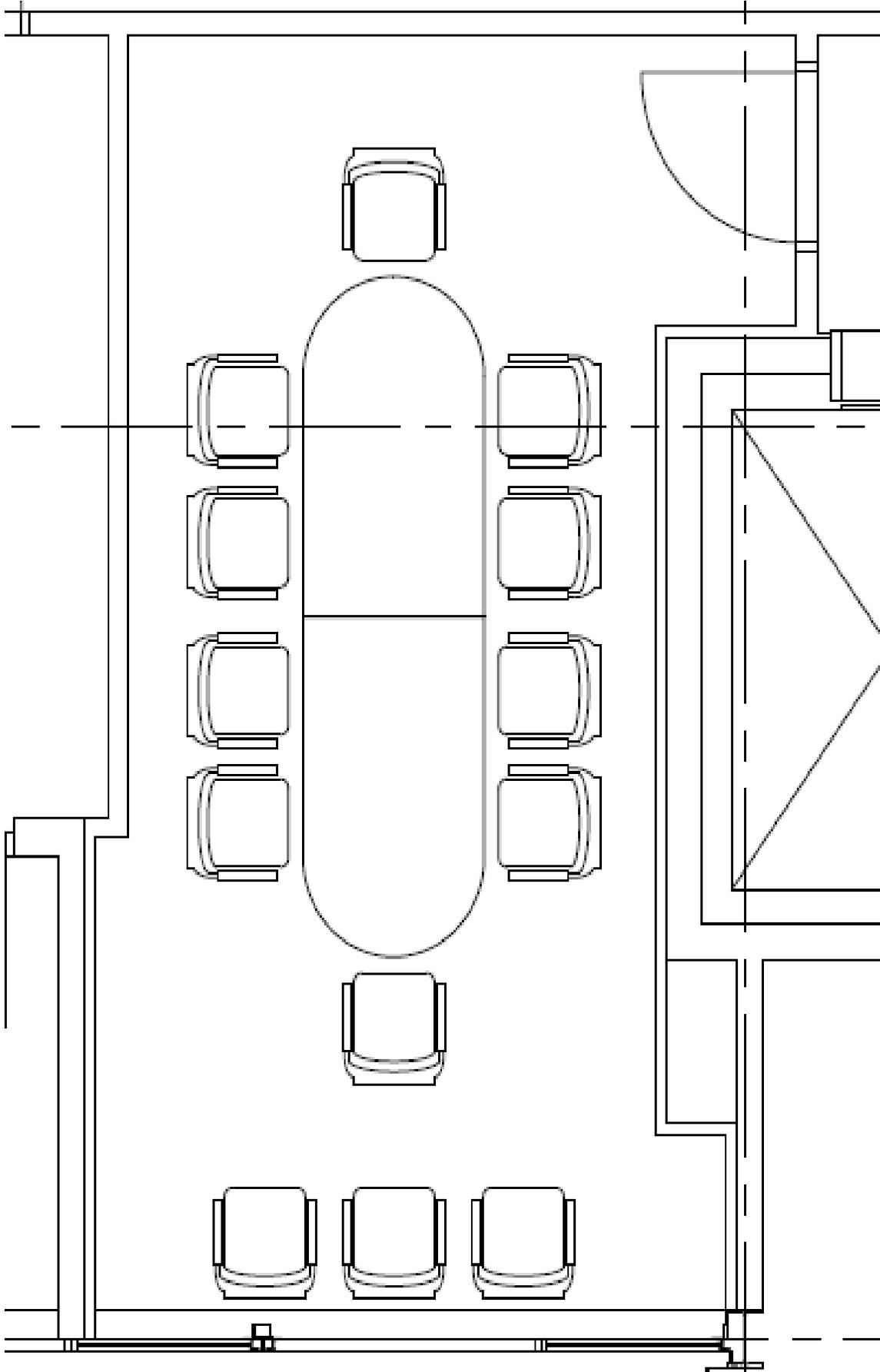
4.1.2 An equipment/parts list is listed below. Please refer to addendum 12.1.3, below, for a complete VTC system. Under this task, the contractor shall reuse (and reconfigure) the GFE equipment, (including re-using a brand new projector which was recently installed in this room), from addendum 12.1.3 (to the highest extent possible), by substituting the listed equipment/parts for GFE in addendum 12.1.3, and shall provide any equipment or materials not found in the GFE addendum 12.1.3, along with integration labor for **Building 200A, Second Floor, Room 2190, Small Conference Room, WITH VTC (Quantity 1)**. Changes to the equipment list will need to be made to accommodate the GFE. **If GFE for each task is analog, please disregard any reference to digital components in the materials list.**

4.2 Console Station

4.2.1 Room shall contain a console station on the meeting table, where two (2) laptop connections reside, and USB ports for a Keyboard, CAC reader and Mouse for a resident desktop that is in or near the A/V rack.

4.2.2 The meeting table shall have a Component (with audio) plate that is routable to any display in the system. This plate shall be used for plugging in any legacy source devices (i.e. VHS Player). The meeting table shall have USB capability through the DM (or other method) for a keyboard / CAC reader / Mouse. The location of the desktop computer will dictate where the other termination point is. Controller source code shall be modified and equipment list shall be updated for this requirement if necessary. Changes to the equipment list and programming costs for this capability shall be quoted on a separate line.

4.4 Conceptual Drawing for Design Objectives



4.5 Building 200A, Second Floor, Room 2190, Small Conference Room, WITH VTC (Quantity 1)
- Materials List

Line	GFE	Qty	Description
1		1	Crestron CEN-SW-POE - 5 Port Power Over Ethernet Switch
2		1	Smart 1500LCD Tripp Lite 1500VA Digi
3	GFE	1	535-2000-221 This is a Profile Wall Mount Bracket for Polycom Eagle Eye Camera - NOT NEEDED due to removal of HDX 8000
4		1	N82E16833156251 TRENDnet TEG-s80g 5-Port Gigabit Green
5		1	IUQFP-2 Int Ultra QFP 2 Fan LED
6		2	12' DVI to DVI cable
7		1	Infinix SCM Pro Plenum Box
8	GFE	1	InFocus IN5110 Projector - 1920x1200, 4200 ANSI Lumens, 5000:1 Contrast, must be able to display 1680x1050 clearly - NOT NEEDED - replaced with GFE Line 1 Projector Epson PowerLite 811P
9	GFE	2	Spare Lamp for Projector above - NOT NEEDED due to removal of Infocus Projector
10		1	Premier PDS-FCTA4W-QL - Projector Mount Kit
11		1	DaLite Advantage Recessed Electric Screen 94" diagonal projection screen with low voltage control and manual override switch on wall
12	GFE	2	60" LED LCD 1920x1080 Monitor (Required to Project 1680x1050 in PC mode at 16:10 Aspect Ratio without Stretch and without blurring). NOT NEEDED - Replaced with GFE Lines 3 and 4 Flat Panel Monitors LG50PC5DC
13	GFE	2	Adjustable Tilting Wall Mount for LCD Chief RMT2/RLT2/RXT2 or similar - NOT NEEDED Replaced with GFE Line 5 Flat Panel Monitor Mounts Electrograph ELE-FM50
14		1	Crestron DM-MD8x8 - 8x8 Digital Media Server
15		2	Crestron DMC-C - Digital Media 8G+ Input Card
16		1	Crestron DMC-VGA/Video Inputu Card For DM Switcher
17		1	Crestron DMC-VID-RCA-A - RCA Analog Video Input Card w/Analog Audio for DM Switchers
18		2	Crestron DMC-DVI - DVI/RDB Input Card for DM Switchers
19		1	Crestron DMCO-53 - Output Card for Digital Media Server
20		1	DMCO-50 - Output Card for Digital Media Switcher
21		2	Crestron DM-TX-201-C Digital Media 8G+ Transmitter 201
22		4	Crestron DM-RMC-Scaler-C - Digital Media 8G+ Receiver
23		1	Crestron CBL-HD-DVI-6 - HDMI to DVI Interface Cable
24		1	Crestron CP3 Control Processor
25		3	Extron MDC HDMI - 3' MicroDigital HDMI Cable
26		2	Extron MDC HDMI - 6' Micro Digital Ultra Flexible HDMI Cable
27		3	Extron MVGA-A M-M - 6' Micro VGA Cable With Audio
28		3	Extron MVGA-A M-M - 6' Micro VGA Cable With Audio (same as above, but deliverable only)
29		1	Extron FF 220T Ceiling - 2x2 Drop-IN, Transformer, Pair (Speaker)
30		1	Extron MPA401T Audio Amplifier
31	GFE	4	Beyerdynamic BM34W Ceiling Microphones - NOT NEEDED - Replaced with GFE Line 8 Microphone Polycom
32	GFE	1	Polycom SoundStructure C8 - Eight-Channel AEC / Noise Canceller / Feedback reduction w/ Auto Mic Mixing and Matrix Mixer - NOT NEEDED due to removal of HDX-8000

33	GFE	1	Warranty for SoundStructure C8 Series - NOT NEEDED due to removal of HDX 8000
34	GFE	1	Polycom SoundStructure TEL1 - single-line PSTN Interface for SoundStructure C-Series and SR-series Products NOT NEEDED due to
35	GFE	1	Polycom TAA Compliant HDX 8000 720: Incl. HD codec, Eagle Eye HD Camera, HDX Mic Array, P+C, English remote. Cables: 2 sets of component video (DVI to RCA), audio (RCA to RCA), HDCI breakout, HD & Multipoint License key installed and activated. NOT NEEDED - replaced with GFE Lines 6 and 7 VTC Codec with all accessories Polycom VSX 7000e and Camera for the VTC Codec Polycom MPTZ-5N
36	GFE	1	One Year Warranty for HDX 8000 Series - NOT NEEDED due to removal of HDX 8000
37	GFE	1	Quad BRI Module for HDX Series. Includes four ISND 20ft/6m cables NOT NEEDED due to removal of HDX 8000
38	GFE	1	NT512 Network Terminator - NOT NEEDED - replaced with GFE Line 12 Interface Router GPNP NT512A
39	GFE	1	Auxiliary Power Supply for Camera - NOT NEEDED due to removal of HDX 8000
40	GFE	1	HDX Adapter for HDCI - NOT NEEDED due to removal of HDX 8000
41		1	Crestron TPS-6X Wireless (RF) Touch Panel
42		1	Crestron CEN-HPRFGW - Extended Range RF Wireless Gateway
43		1	Middle Atlantic UQFP-2 Ultra Quiet Fan Panel Thermal Management
44		1	Middle Atlantic PD-915R 120 Volt Rack mount Power Strips
45		2	USB Cables
46		3	4 port Ultra Mini USB 2.0 Hub
47		13	5' RJ45 to RJ45 - Black
48		2	Cable Pass-Through AAP - Left BLACK
49		2	Cable Pass-Through AAP - Right BLACK
50		1	Cable Clamp / Pass-Through for Wired Touch Panel
51		1	Custom Composite Video with 2 RCA audio aux Plate
52		2	Custom Mounting Bracket for DM-RMC-SCALER-C
53		3	Extron MVGA-A M-M/12 - 12'(3.6m) Male to Male 15-Pin HD Micro HR with Audio
54		1	Low Profile Floor-Mount Raceway System for A/V Connectivity to Table with ALL necessary inserts required for this install. This would include (but not be limited to) electrical blocks, Kingston blocks or any other block required for this installation.
55		2	Extron Cable Cubby 600 60-525-01 with all necessary inserts for this install. This would include (but not be limited to) electrical blocks, Kingston blocks, USB blocks or any other block required for this installation.
56		3	Wireless Presenter with Laser Pointer, model 33374, (http://www.kensington.com/kensington/us/us/p/1443/K33374USA/wireless-presenter-with-laser-pointer.aspx or similar)
57		2	3.5mm Stereo audio splitter cable - (032HF Audio Cable) or similar
58		4	StarTech.com USB B to USB A Cable Adapter (USB Adapter - 4 pin USB Type A (F) - 4 pin USB Type B (M) http://www.startech.com/Cables/USB-2.0/USB-Adapters/Adapter-USB-B-Male-to-USB-A-Female#GCUSBABFM)
59		4	USB 2.0 A(F) / A(M) Extension Cable 10ft. (STARTECH.com 10ft USB 2.0 Extension Cable A to A M/F # USBEXTAA10) or similar

			Installation Material
			Labor, System Integration & Training
			Standard & Preventive Maintenance
			Shipping & Handling

Task 5 - Building 200A, Second Floor, Room 2099, Small Conference Room, WITH VTC (Quantity 1)**5.1 Description of Location**

5.1.1 Under this task, the contractor shall provide equipment (materials) and integration labor for Building 200A, Second Floor, Room 2099, Small Conference Room, WITH VTC (Quantity 1). The existing VTC unit is still operational and shall be incorporated into the new system. It is a model number PVS – 1419. A new NTS 512 will need to be supplied by the contractor, as the existing Quad NTI by Alpha Telecom is shared use with another area and cannot come into this room as a standalone. This VTC system works, and shall be incorporated into the new design. All other parts are to be determined by the contractor as to whether or not they are or are not usable. Disposal of old equipment shall be the responsibility of the Government.

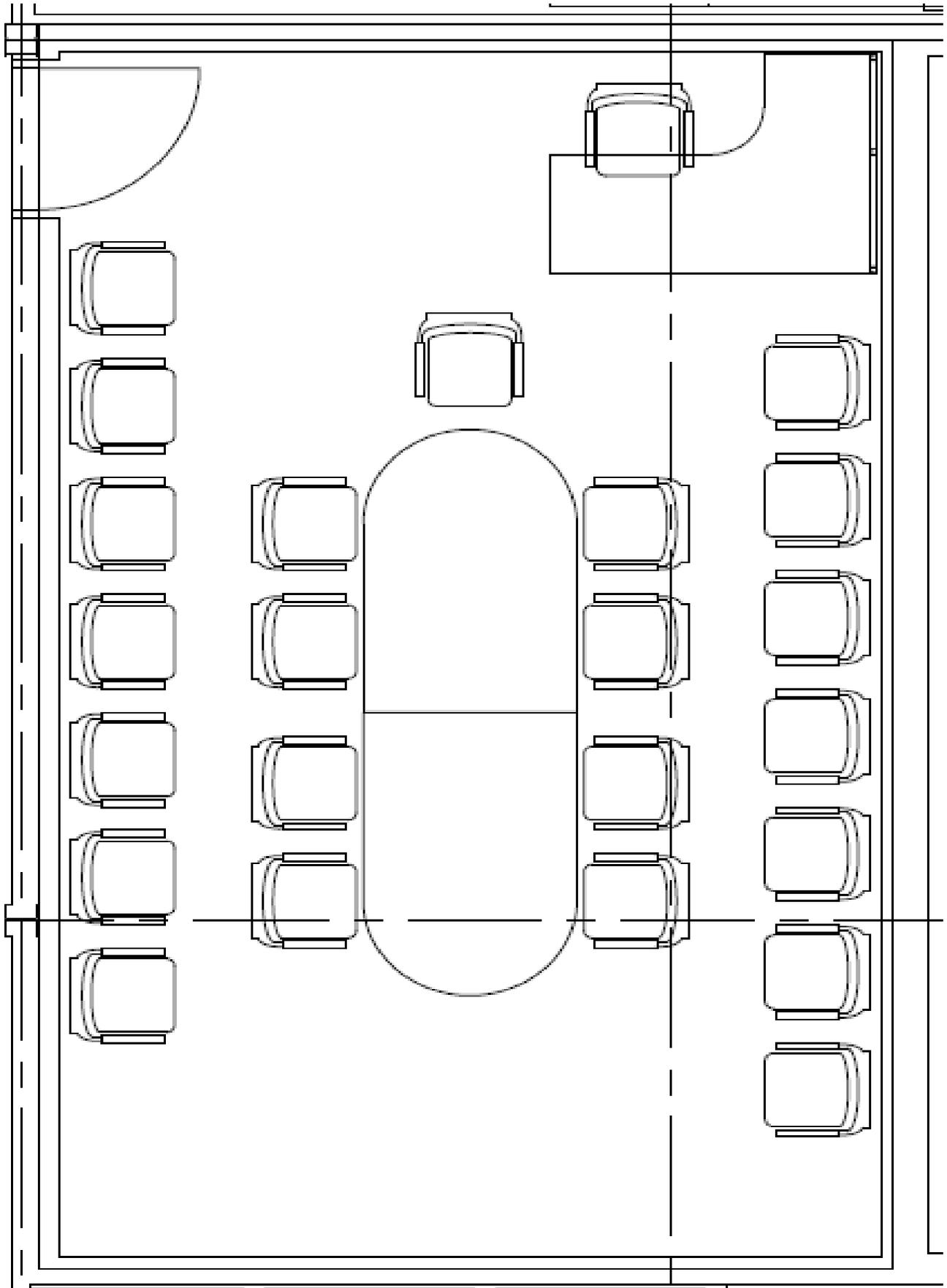
5.1.2 An equipment/parts list is listed below. Under this task, the contractor shall reuse (and reconfigure) the existing GFE VTC equipment (and supply a new NTS 512) then shall provide any equipment or materials, along with integration labor for Building 200A, Second Floor, Room 2099, Small Conference Room, WITH VTC (Quantity 1). Changes to the equipment list will need to be made to accommodate the GFE. **If GFE for each task is analog, please disregard any reference to digital components in the materials list.**

5.2 Console Station

5.2.1 Room shall contain a console station on the meeting table, where two (2) laptop connections reside, and USB ports for a Keyboard, CAC reader and Mouse for a resident desktop that is in or near the A/V rack.

5.2.2 The meeting table shall have a Component (with audio) plate that is routable to any display in the system. This plate shall be used for plugging in any legacy source devices (i.e. VHS Player). The meeting table shall have USB capability through the DM (or other method) for a keyboard / CAC reader / Mouse. The location of the desktop computer will dictate where the other termination point is. Controller source code shall be modified and equipment list shall be updated for this requirement if necessary. Changes to the equipment list and programming costs for this capability shall be quoted on a separate line.

5.5 Conceptual Drawing for Design Objectives



5.6 200A, Second Floor, Room 2099, Small Conference Room, WITH VTC (Quantity 1– Materials List

Line	GFE	Qty	Description
1		1	Crestron CEN-SW-POE - 5 Port Power Over Ethernet Switch
2		1	Smart 1500LCD Tripp Lite 1500VA Digi
3		1	535-2000-221 This is a Profile Wall Mount Bracket for Polycom Eagle Eye Camera
4		1	N82E16833156251 TRENDnet TEG-s80g 5-Port Gigabit Green
5		1	IUQFP-2 Int Ultra QFP 2 Fan LED
6		2	12' DVI to DVI cable
7		1	Infinix SCM Pro Plenum Box
8		1	InFocus IN5110 Projector - 1920x1200, 4200 ANSI Lumens, 5000:1 Contrast, must be able to display 1680x1050 clearly
9		2	Spare Lamp for Projector above
10		1	Premier PDS-FCTA4W-QL - Projector Mount Kit
11		1	DaLite Advantage Recessed Electric Screen 94" diagonal projection screen with low voltage control and manual override switch on wall
12		2	60" LED LCD 1920x1080 Monitor (Required to Project 1680x1050 in PC mode at 16:10 Aspect Ratio without Stretch and without blurring).
13		2	Adjustable Tilting Wall Mount for LCD Chief RMT2/RLT2/RXT2 or similar
14		1	Crestron DM-MD8x8 - 8x8 Digital Media Server
15		2	Crestron DMC-C - Digital Media 8G+ Input Card
16		1	Crestron DMC-VGA/Video Input Card For DM Switcher
17		1	Crestron DMC-VID-RCA-A - RCA Analog Video Input Card w/Analog Audio for DM Switchers
18		2	Crestron DMC-DVI - DVI/RDB Input Card for DM Switchers
19		1	Crestron DMCO-53 - Output Card for Digital Media Server
20		1	DMCO-50 - Output Card for Digital Media Switcher
21		2	Crestron DM-TX-201-C Digital Media 8G+ Transmitter 201
22		4	Crestron DM-RMC-Scaler-C - Digital Media 8G+ Receiver
23		1	Crestron CBL-HD-DVI-6 - HDMI to DVI Interface Cable
24		1	Crestron CP3 Control Processor
25		3	Extron MDC HDMI - 3' MicroDigital HDMI Cable
26		2	Extron MDC HDMI - 6' Micro Digital Ultra Flexible HDMI Cable
27		3	Extron MVGA-A M-M - 6' Micro VGA Cable With Audio
28		3	Extron MVGA-A M-M - 6' Micro VGA Cable With Audio (same as above, but deliverable only)
29		1	Extron FF 220T Ceiling - 2x2 Drop-IN, Transformer, Pair (Speaker)
30		1	Extron MPA401T Audio Amplifier
31		4	Beyerdynamic BM34W Ceiling Microphones - NOT NEEDED due to removal of HDX 8000
32	GFE	1	Polycom SoundStructure C8 - Eight-Channel AEC / Noise Canceller / Feedback reduction w/ Auto Mic Mixing and Matrix Mixer - NOT NEEDED due to removal of HDX 8000
33	GFE	1	Warranty for SoundStructure C8 Series - NOT NEEDED due to removal of HDX 8000
34	GFE	1	Polycom SoundStructure TEL1 - single-line PSTN Interface for SoundStructure C-Series and SR-series Products - NOT NEEDED due to removal of HDX 8000

35	GFE	1	Polycom TAA Compliant HDX 8000 720: Incl. HD codec, Eagle Eye HD Camera, HDX Mic Array, P+C, English remote. Cables: 2 sets of component video (DVI to RCA), audio (RCA to RCA), HDCI breakout, HD & Multipoint License key installed and activated. NOT NEEDED - Replaced with GFE requested in quote Polycom PVS-1419
36	GFE	1	One Year Warranty for HDX 8000 Series - NOT NEEDED due to removal of HDX 8000
37	GFE	1	Quad BRI Module for HDX Series. Includes four ISND 20ft/6m cables - NOT NEEDED due to removal of HDX 8000
38		1	NT512 Network Terminator
39	GFE	1	Auxiliary Power Supply for Camera - NOT NEEDED due to removal of HDX 8000
40	GFE	1	HDX Adapter for HDCI - NOT NEEDED due to removal of HDX 8000
41		1	Crestron TPS-6X Wireless (RF) Touch Panel
42		1	Crestron CEN-HPRFGW - Extended Range RF Wireless Gateway
43		1	Middle Atlantic UQFP-2 Ultra Quiet Fan Panel Thermal Management
44		1	Middle Atlantic PD-915R 120 Volt Rack mount Power Strips
45		2	USB Cables
46		3	4 port Ultra Mini USB 2.0 Hub
47		13	5' RJ45 to RJ45 - Black
48		2	Cable Pass-Through AAP - Left BLACK
49		2	Cable Pass-Through AAP - Right BLACK
50		1	Cable Clamp / Pass-Through for Wired Touch Panel
51		1	Custom Composite Video with 2 RCA audio aux Plate
52		2	Custom Mounting Bracket for DM-RMC-SCALER-C
53		3	Extron MVGA-A M-M/12 - 12'(3.6m) Male to Male 15-Pin HD Micro HR with Audio
54		1	Low Profile Floor-Mount Raceway System for A/V Connectivity to Table with ALL necessary inserts required for this install. This would include (but not be limited to) electrical blocks, Kingston blocks or any other block required for this installation.
55		2	Extron Cubby 600 60-525-01 with all necessary inserts for this install. This would include (but not be limited to) electrical blocks, Kingston blocks, USB blocks or any other block required for this installation.
56		3	Wireless Presenter with Laser Pointer, model 33374, (http://www.kensington.com/kensington/us/us/p/1443/K33374USA/wireless-presenter-with-laser-pointer.aspx or similar)
57		2	3.5mm Stereo audio splitter cable - (032HF Audio Cable) or similar
58		4	StarTech.com USB B to USB A Cable Adapter (USB Adapter - 4 pin USB Type A (F) - 4 pin USB Type B (M) http://www.startech.com/Cables/USB-2.0/USB-Adapters/Adapter-USB-B-Male-to-USB-A-Female#GCUSBABFM) or similar
59		4	USB 2.0 A(F) / A(M) Extension Cable 10ft. (STARTECH.com 10ft USB 2.0 Extension Cable A to A M/F # USBEXTAA10) or similar
			Installation Material

			Labor, System Integration & Training
			Standard & Preventive Maintenance
			Shipping & Handling

Task 6 - Building 200A, Second Floor, Room 2148, Small Conference Room, WITH VTC (Quantity 1)

6.1 Description of Location

6.1.1 Under this task, the contractor shall provide equipment (materials) and integration labor for **Building 200A, Second Floor, Room 2148, Small Conference Room, WITH VTC (Quantity 1)**. The existing VTC unit, which is fully operational, shall be incorporated into the new system. It is a model number PVS – 1419. A new NTS 512 will need to be supplied by the contractor, as the existing Quad NTI by Alpha Telecom is shared use with another area and cannot come into this room as a standalone. This VTC system works, and shall be incorporated into the new design. All other parts are to be determined by the contractor as to whether or not they are or are not usable. Disposal of old equipment shall be the responsibility of the Government.

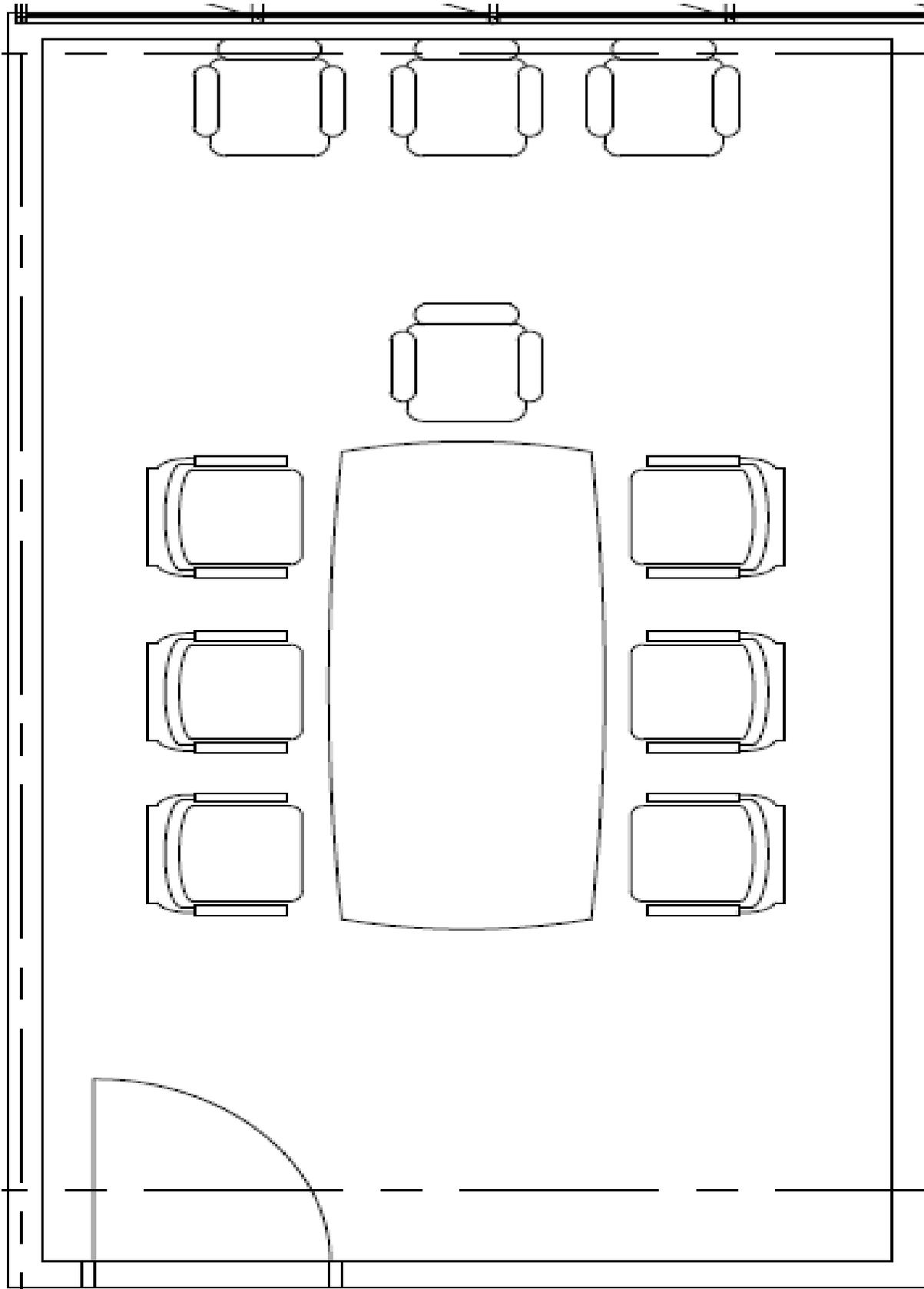
6.1.2 An equipment/parts list is listed below. Under this task, the contractor shall reuse (and reconfigure) the existing GFE VTC equipment (and supply a new NTS 512), and shall provide any equipment or materials, along with integration labor for **Building 200A, Second Floor, Room 2148, Small Conference Room, WITH VTC (Quantity 1)**. Changes to the equipment list will need to be made to accommodate the GFE. **If GFE for each task is analog, please disregard any reference to digital components in the materials list.**

6.2 Console Station

6.2.1 Room shall contain a console station on the meeting table, where two (2) laptop connections reside, and USB ports for a Keyboard, CAC reader and Mouse for a resident desktop that is in or near the A/V rack.

6.2.2 The meeting table shall have a Component (with audio) plate that is routable to any display in the system. This plate shall be used for plugging in any legacy source devices (i.e. VHS Player). The meeting table shall have USB capability through the DM for a keyboard / CAC reader / Mouse. The location of the desktop computer will dictate where the other termination point is. Controller source code shall be modified and equipment list shall be updated for this requirement if necessary. Changes to the equipment list and programming costs for this capability shall be quoted on a separate line.

6.4 Conceptual Drawing for Design Objectives



6.5 Building 200A, Second Floor, Room 2148, Small Conference Room, WITH VTC (Quantity 1)
- Materials List

Line	GFE	Qty	Description
1		1	Crestron CEN-SW-POE - 5 Port Power Over Ethernet Switch
2		1	Smart 1500LCD Tripp Lite 1500VA Digi
3	GFE	1	535-2000-221 This is a Profile Wall Mount Bracket for Polycom Eagle Eye Camera - NOT NEEDED due to removal of HDX 8000
4		1	N82E16833156251 TRENDnet TEG-s80g 5-Port Gigabit Green
5		1	IUQFP-2 Int Ultra QFP 2 Fan LED
6		2	12' DVI to DVI cable
7		1	Infinix SCM Pro Plenum Box
8		1	InFocus IN5110 Projector - 1920x1200, 4200 ANSI Lumens, 5000:1 Contrast, must be able to display 1680x1050 clearly
9		2	Spare Lamp for Projector above
10		1	Premier PDS-FCTA4W-QL - Projector Mount Kit
11		1	DaLite Advantage Recessed Electric Screen 94" diagonal projection screen with low voltage control and manual override switch on wall
12		2	60" LED LCD 1920x1080 Monitor (Required to Project 1680x1050 in PC mode at 16:10 Aspect Ratio without Stretch and without blurring).
13		2	Adjustable Tilting Wall Mount for LCD Chief RMT2/RLT2/RXT2 or similar
14		1	Crestron DM-MD8x8 - 8x8 Digital Media Server
15		2	Crestron DMC-C - Digital Media 8G+ Input Card
16		1	Crestron DMC-VGA/Video Input Card For DM Switcher
17		1	Crestron DMC-VID-RCA-A - RCA Analog Video Input Card w/Analog Audio for DM Switchers
18		2	Crestron DMC-DVI - DVI/RDB Input Card for DM Switchers
19		1	Crestron DMCO-53 - Output Card for Digital Media Server
20		1	DMCO-50 - Output Card for Digital Media Switcher
21		2	Crestron DM-TX-201-C Digital Media 8G+ Transmitter 201
22		4	Crestron DM-RMC-Scaler-C - Digital Media 8G+ Receiver
23		1	Crestron CBL-HD-DVI-6 - HDMI to DVI Interface Cable
24		1	Crestron CP3 Control Processor
25		3	Extron MDC HDMI - 3' MicroDigital HDMI Cable
26		2	Extron MDC HDMI - 6' Micro Digital Ultra Flexible HDMI Cable
27		3	Extron MVGA-A M-M - 6' Micro VGA Cable With Audio
28		3	Extron MVGA-A M-M - 6' Micro VGA Cable With Audio (same as above, but deliverable only)
29		1	Extron FF 220T Ceiling - 2x2 Drop-IN, Transformer, Pair (Speaker)
30		1	Extron MPA401T Audio Amplifier
31	GFE	4	Beyerdynamic BM34W Ceiling Microphones - NOT NEEDED due to removal of HDX 8000
32	GFE	1	Polycom SoundStructure C8 - Eight-Channel AEC / Noise Canceller / Feedback reduction w/ Auto Mic Mixing and Matrix Mixer - NOT NEEDED due to removal of HDX 8000
33	GFE	1	Warranty for SoundStructure C8 Series - NOT NEEDED due to removal of HDX 8000

34	GFE	1	Polycom SoundStructure TEL1 - single-line PSTN Interface for SoundStructure C-Series and SR-series Products - NOT NEEDED due to removal of HDX 8000
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35	GFE	1	Polycom TAA Compliant HDX 8000 720: Incl. HD codec, Eagle Eye HD Camera, HDX Mic Array, P+C, English remote. Cables: 2 sets of component video (DVI to RCA), audio (RCA to RCA), HDCI breakout, HD & Multipoint License key installed and activated. NOT NEEDED - Replaced with GFE requested in RFQ Polycom PVS-1419
36	GFE	1	One Year Warranty for HDX 8000 Series - NOT NEEDED due to removal of HDX 8000
37	GFE	1	Quad BRI Module for HDX Series. Includes four ISND 20ft/6m cables - NOT NEEDED due to removal of HDX 8000
38		1	NT512 Network Terminator
39	GFE	1	Auxiliary Power Supply for Camera - NOT NEEDED due to removal of HDX 8000
40	GFE	1	HDX Adapter for HDCI - NOT NEEDED due to removal of HDX 8000
41		1	Crestron TPS-6X Wireless (RF) Touch Panel
42		1	Crestron CEN-HPRFGW - Extended Range RF Wireless Gateway
43		1	Middle Atlantic UQFP-2 Ultra Quiet Fan Panel Thermal Management
44		1	Middle Atlantic PD-915R 120 Volt Rack mount Power Strips
45		2	USB Cables
46		3	4 port Ultra Mini USB 2.0 Hub
47		13	5' RJ45 to RJ45 - Black
48		2	Cable Pass-Through AAP - Left BLACK
49		2	Cable Pass-Through AAP - Right BLACK
50		1	Cable Clamp / Pass-Through for Wired Touch Panel
51		1	Custom Composite Video with 2 RCA audio aux Plate
52		2	Custom Mounting Bracket for DM-RMC-SCALER-C
53		3	Extron MVGA-A M-M/12 - 12'(3.6m) Male to Male 15-Pin HD Micro HR with Audio
54		1	Low Profile Floor-Mount Raceway System for A/V Connectivity to Table with ALL necessary inserts required for this install. This would include (but not be limited to) electrical blocks, Kingston blocks or any other block required for this installation.
55		2	Extron Cable Cubby 600 60-525-01 with all necessary inserts for this install. This would include (but not be limited to) electrical blocks, Kingston blocks, USB blocks or any other block required for this installation.
56		3	Wireless Presenter with Laser Pointer, model 33374, (http://www.kensington.com/kensington/us/us/p/1443/K33374USA/wireless-presenter-with-laser-pointer.aspx or similar)
57		2	3.5mm Stereo audio splitter cable - (032HF Audio Cable) or similar
58		4	StarTech.com USB B to USB A Cable Adapter (USB Adapter - 4 pin USB Type A (F) - 4 pin USB Type B (M) http://www.startech.com/Cables/USB-2.0/USB-Adapters/Adapter-USB-B-Male-to-USB-A-Female#GCUSBABFM) or similar

59		4	USB 2.0 A(F) / A(M) Extension Cable 10ft. (STARTECH.com 10ft USB 2.0 Extension Cable A to A M/F # USBEXTAA10) or similar
			Installation Material
			Labor, System Integration & Training
			Standard & Preventive Maintenance
			Shipping & Handling

Task 7 - Building 200C, Room 1214, Very Small Conference Room (Standard Office Install) (Quantity 1)

7.1 Description of Location

7.1.1 Under this task, the contractor shall provide equipment (materials) and integration labor for **Building 200C, Room 1214, Very Small Conference Room (Standard Office Install) (Quantity 1)**

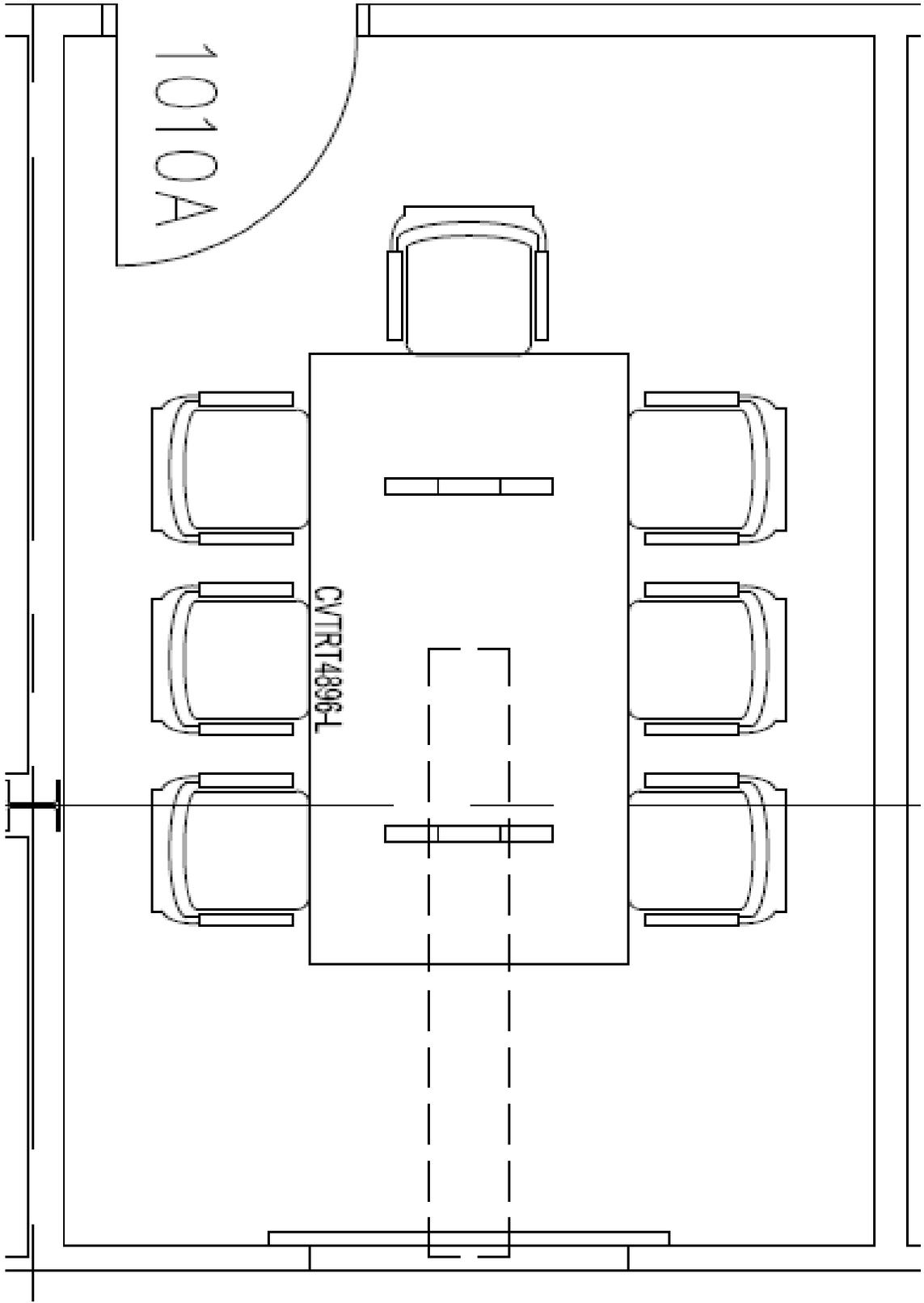
7.2 Example Room

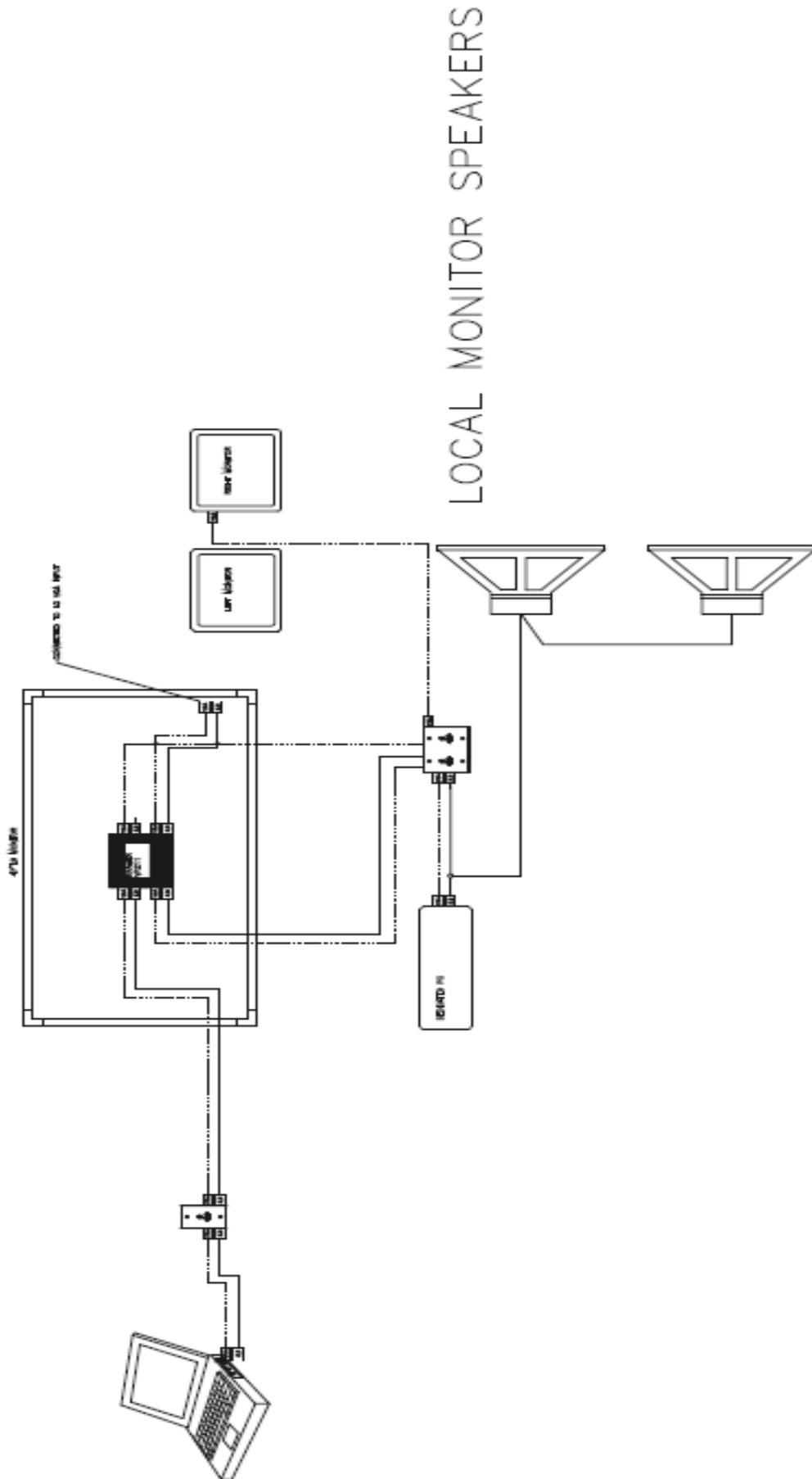
7.2.1 TARDEC will select an unoccupied A.D. Office to use as an example of the standard that all “Standard Office” Install Rooms shall follow. The Government will provide time during the site visit to visit this completed room.

7.3 Console Station

7.3.1 The Console will be the located at the table. This room is basically our standard “Office” arrangement (slightly altered). The Television will be operated via the remote control included with the television. Any necessary changes to the equipment list shall be quoted on a separate line.

7.4 Conceptual Drawing for Design Objectives





7.5 Building 200C, Room 1214, Very Small Conference Room (Standard Office Install) (Quantity 1) – Materials List

Line	GFE	Qty	Description
1		1	Television - 55LS460E, LG EzSign TV, 55" Class (54.6" measured diagonally)
2		1	Tilting Wall Mount: Chief, CHF-RXT2, X-Large FIT Tilt LCD Mount (for 40"-63" Displays)
3		1	Wall Plate with VGA and 3.5mm F Audio (for Guest Input) - EXTRON WPB 1031-GANG Part # 60-774-21 or similar
4		1	Dual VGA / Single 3.5mm F Audio. Panelcrafters PC-A4100-S-P-C, Single Gang w/Dual VGA + Audio Extender (65 ft) or similar
5		1	Kramer Tools VP-211K Video/Audio D/A Auto Switcher
7		3	12' VGA cable with Audio, Extron MVGA-A M-M/12, 12' (3.6m), Part number 26-566-03, Male to Male 15-pin HD Micro HR with Audio Cable, or similar
8		2	6' VGA cable with Audio, Extron MVGA-A M-M/6, 6' (1.8m), Part number 26-566-01, Male to Male 15-pin HD Micro HR with Audio Cable, or similar
9		7	VGA (M) to 5 BNC breakout cable - (StarTech Model VGABNCMF1 1ft. (0.3m) Coax HD15 VGA to 5BNC RGBHV Monitor Cable M-F) or similar
10		40	BNC Adapter Gender Changer, Plug-Plug, PAN BNC-3391P or similar
11		40	RG59 Compression BNC Connectors, Part number 41123 or similar
12		2	3.5mm Stereo audio splitter cable - (032HF Audio Cable) or similar
13		1	Cable Hook (to attach to back of television and onto which the spare (guest) VGA cable can hang
14		1	Heavy Duty Velcro Strip to attach remote to rear of television.
15		1	Miscellaneous (for wire, various misc. connectors, or anything else needed for install).
16		2	Wireless Presenter with Laser Pointer, model 33374, (http://www.kensington.com/kensington/us/us/p/1443/K33374USA/wireless-presenter-with-laser-pointer.aspx)
17		1	USB 2.0 A(F) / A(M) Extension Cable 10ft. (STARTECH.com 10ft USB 2.0 Extension Cable A to A M/F # USBEXTAA10) or similar
18		3	Belkin F5U407 4-port Ultra Mini USB 2.0 Hub
19		2	Extron Cable Cubby 600 60-525-01 with all necessary inserts for this install. This would include electrical blocks, Kingston blocks, USB blocks or any other block required for this installation.
			Labor, System Integration & Training
			Standard & Preventive Maintenance
			Shipping & Handling

Task 8 - Building 215, Rooms 35/37 Collaboration Room (Standard Office Install) – Quantity 1

8.1 Description of Location

8.1.1 Under this task, the contractor shall provide equipment (materials) and integration labor for Building 215, Rooms 35/37 Collaboration Room (Standard Office Install) – Quantity 1

8.2 Example Room

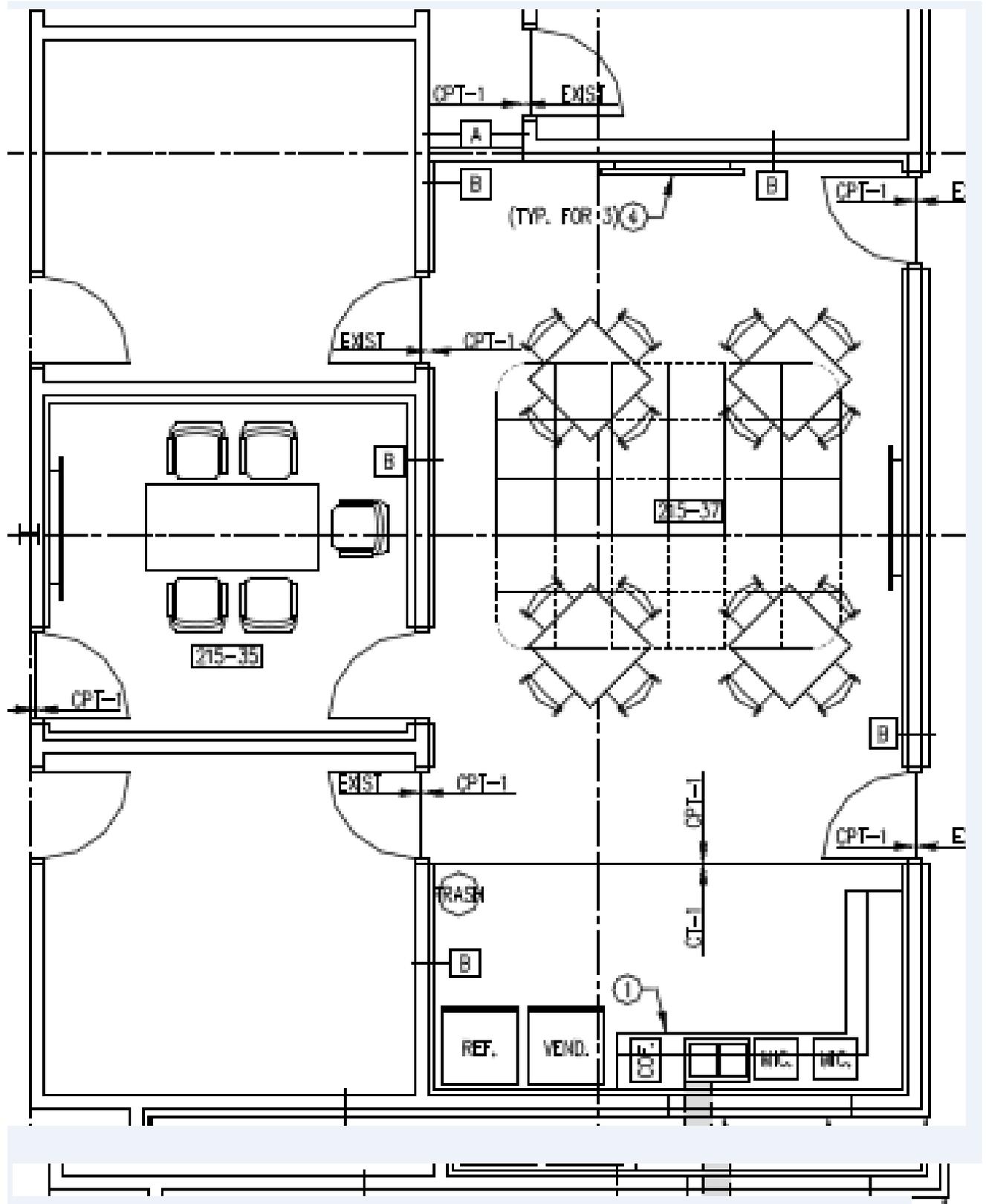
8.2.1 One single pole in the Collaboration Café in building 200A is an example of this room. The Government will provide time during the site visit to visit this completed room.

8.3 Console Station

8.3.1 There will not be a console station in this particular configuration.

8.3.2 The flat panel will be mounted to the wall, and a wall plate beneath the flat panel will be the only connection point. This room is basically our standard “Office” arrangement (slightly altered). The Television will be operated via the remote control included with the television. Any necessary changes to the equipment list shall be quoted on a separate line.

8.4 Conceptual Drawing for Design Objectives



8.5 Building 215, Rooms 35/37 Collaboration Room (Standard Office Install) – Quantity 1
 – Materials List

Line	GFE	Qty	Description
1		3	Television - 55LS460E, LG EzSign TV, 55" Class (54.6" measured diagonally)
2		3	Tilting Wall Mount: Chief, CHF-RXT2, X-Large FIT Tilt LCD Mount (for 40"-63" Displays)
3		3	Wall Plate with VGA and 3.5mm F Audio (for Guest Input) - EXTRON WPB 1031-GANG Part # 60-774-21 or similar
4		9	12' VGA cable with Audio, Extron MVGA-A M-M/12, 12' (3.6m), Part number 26-566-03, Male to Male 15-pin HD Micro HR with Audio Cable, or similar
5		7	VGA (M) to 5 BNC breakout cable - (StarTech Model VGABNCMF1 1ft. (0.3m) Coax HD15 VGA to 5BNC RGBHV Monitor Cable M-F) or similar
6		40	BNC Adapter Gender Changer, Plug-Plug, PAN BNC-3391P or similar
7		40	RG59 Compression BNC Connectors, Part number 41123 or similar
8		2	3.5mm Stereo audio splitter cable - (032HF Audio Cable) or similar
9		1	Cable Hook (to attach to back of television and onto which the spare (guest) VGA cable can hang
10		1	Heavy Duty Velcro Strip to attach remote to rear of television.
11		1	Miscellaneous (for wire, various misc. connectors, or anything else needed for install).
12		6	Wireless Presenter with Laser Pointer, model 33374, http://www.kensington.com/kensington/us/us/p/1443/K33374USA/wireless-presenter-with-laser-pointer.aspx
			Labor, System Integration & Training
			Standard & Preventive Maintenance
			Shipping & Handling

Task 9.-Building (Various), Various Offices, (Standard Office Install) (Quantity 31)

9.1 Description of Location

9.1.1 Under this task, the contractor shall provide equipment (materials) and integration labor for thirty one (31) offices. Each office will have the same functionality, and most will fall under one of two basic configurations (as seen below).

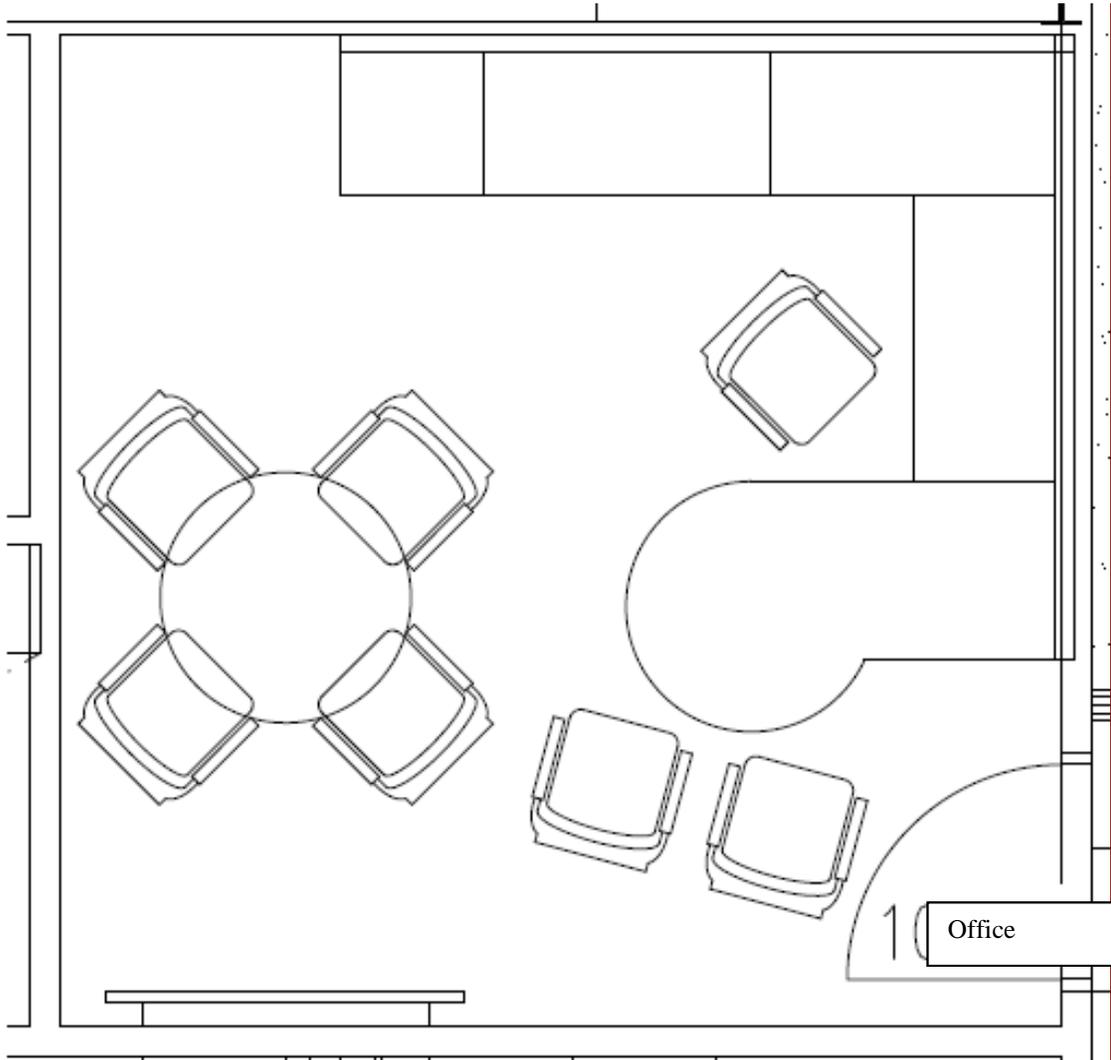
9.2 Example Room

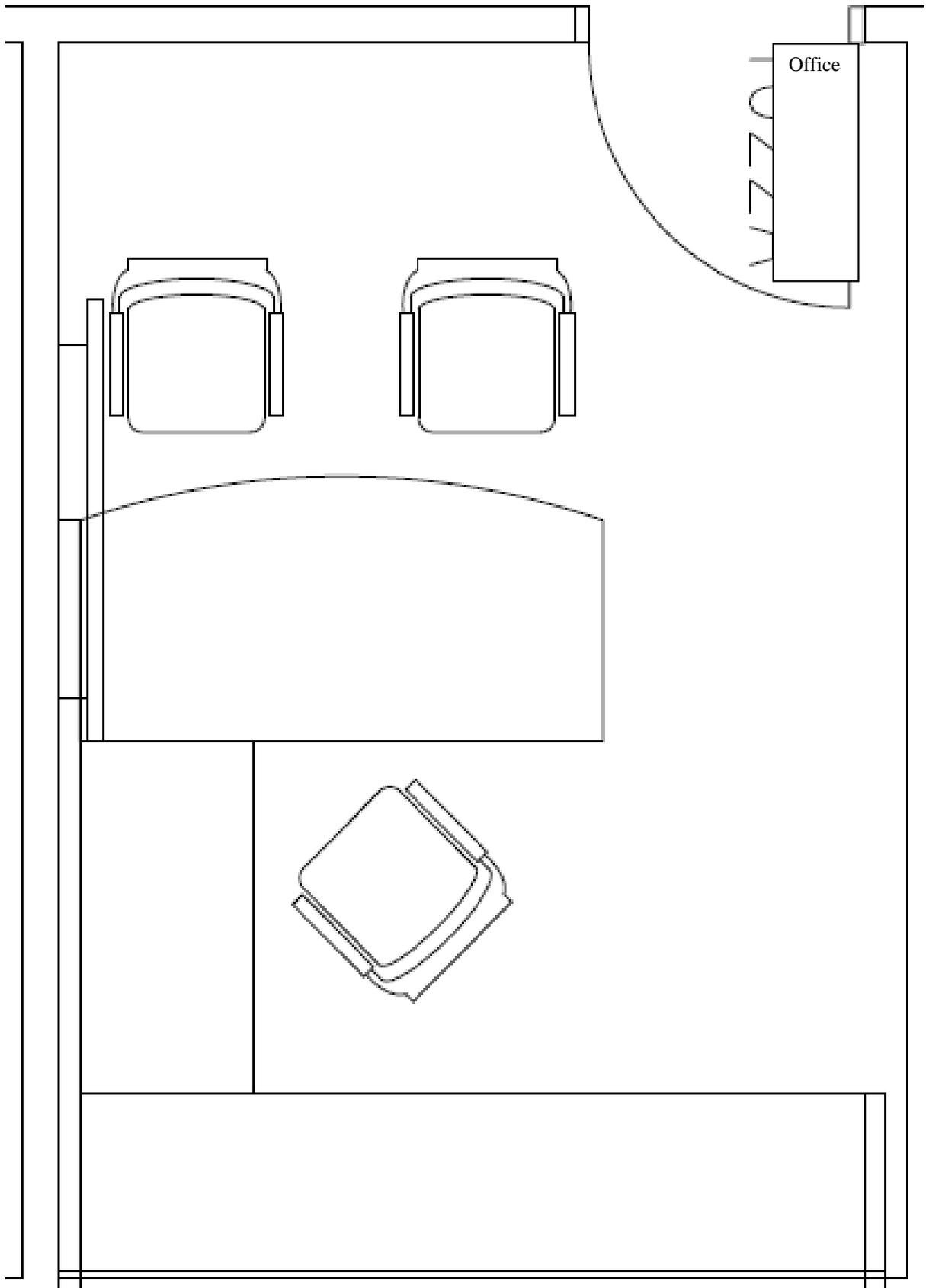
9.2.1 TARDEC will select an unoccupied A.D. office to use as an example of the standard that all Standard Office Install rooms shall follow. The Government will provide time during the site visit to visit this completed room.

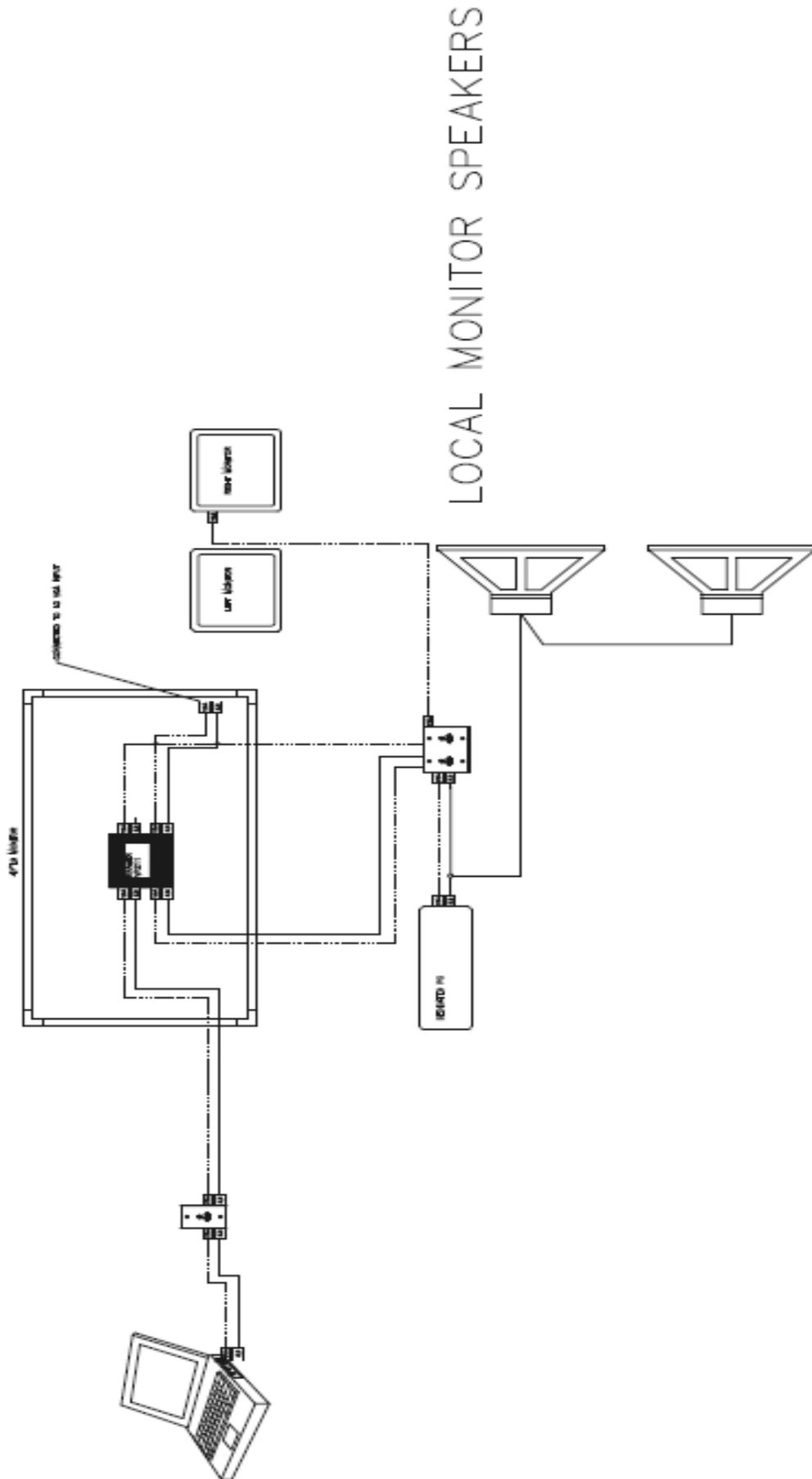
9.3 Console Station

9.3.1 This room is our standard "Office" arrangement. The Television will be operated via the remote control included with the television. Any necessary changes to the equipment list shall be quoted on a separate line.

4 Conceptual Drawing for Design Objectives (There are two styles of office. Both will receive the exact same technology).







9.5 Building 200C, Various AD2/DAD5 Offices, (Standard Office Install) (Quantity 7) – Materials List

Line	GFE	Qty	Description
1		31	Television - 47LD452B, LG EzSign TV, 47" Class (47" measured diagonally)
2		31	Tilting Wall Mount: Chief, CHF-RLT2 Low Profile Universal Tilt LCD Mount (for 32"-52" Displays)
3		31	Wall Plate with VGA and 3.5mm F Audio (for Guest Input) - EXTRON WPB 1031-GANG Part # 60-774-21 or similar
4		31	Dual VGA / Single 3.5mm F Audio. Panelcrafters PC-A4100-S-P-C, Single Gang w/Dual VGA + Audio Extender (65 ft) or similar
5		31	Kramer Tools VP-211K Video/Audio D/A Auto Switcher
7		93	12' VGA cable with Audio, Extron MVGA-A M-M/12, 12' (3.6m), Part number 26-566-03, Male to Male 15-pin HD Micro HR with Audio Cable, or similar
8		62	6' VGA cable with Audio, Extron MVGA-A M-M/6, 6' (1.8m), Part number 26-566-01, Male to Male 15-pin HD Micro HR with Audio Cable, or similar
9		217	VGA (M) to 5 BNC breakout cable - (StarTech Model VGABNCMF1 1ft. (0.3m) Coax HD15 VGA to 5BNC RGBHV Monitor Cable M-F) or similar
10		1240	BNC Adapter Gender Changer, Plug-Plug, PAN BNC-3391P or similar
2		1240	RG59 Compression BNC Connectors, Part number 41123 or similar
12		62	3.5mm Stereo audio splitter cable - (032HF Audio Cable) or similar
13		31	Cable Hook (to attach to back of television and onto which the spare (guest) VGA cable can hang
14		31	Heavy Duty Velcro Strip to attach remote to rear of television.
15		31	Miscellaneous (for wire, various misc. connectors, or anything else needed for install).
16		31	Wireless Presenter with Laser Pointer, model 33374, (http://www.kensington.com/kensington/us/us/p/1443/K33374USA/wireless-presenter-with-laser-pointer.aspx)
			Labor, System Integration & Training
			Standard & Preventive Maintenance
			Shipping & Handling

Task 10- ICS SignPro-Plus Manager Software Digital Signage Manager – Deliverable only (Quantity 1)

10.1 Description of Location

10.1.1 Under this task, the contractor shall provide this software, ICS SignPro-Plus Manager Software Digital Signage Manager, as a deliverable only (no installation required) to the Government Contracting Office Representative (hereafter referred to as the “COR” or the Subject Matter Expert (hereafter referred to as the “SME”). **This item is NOT substitutable.**

10.2 ICS SignPro-Plus Manager Software Digital Signage Manager – Deliverable only (Quantity 1) – Materials List

Qty	Description
1	ICS SignPRO - PLUS Digital Signage System Systems Software. ICS Technology, Inc. / PO Box 4063 Middletown / NJ / 07748 / 732 - 671 - 5400 / info@icstec.com / http://icstec.com/pdf/ICS - SIGNPROPLUS - 12.pdf (no installation is required)

Task 11- ICS DVC-485E Digital Signage Player – Deliverable only (Quantity 4)

11.1 Description of Location

11.1.1 Under this task, the contractor shall provide this hardware, ICS DVC-485E Player, as a deliverable only (no installation required) to the Government Contracting Office Representative (hereafter referred to as the “COR” or the Subject Matter Expert (hereafter referred to as the “SME”). **This item is NOT substitutable.**

11.2 ICS DVC-485E Digital Signage Player – Deliverable only (Quantity 4) – Materials List

Qty	Description
4	ICS DVC - 485E Digital Signage Player. ICS Technology, Inc. / PO Box 4063 Middletown / NJ/ 07748 / 732 - 671 - 5400 / info@icstec.com / http://icstec.com/pdf/ICS - SIGNPROPLUS - 12.pdf (no installation required)

12.1.1 Addendum 1, GFE originally from 1044C – Equipment List

Line	Quantity	Item	Model
1	1	Component Rack	N/A
2	1	A/V Conference Processor (In Rack)	Clear One XAP400
3	1	Control Processor (In Rack)	Creston Pro 2
4	1	Audio Matrix Switcher (In Rack)	Auto Patch PR - 1208
5	1	AV Matrix Switcher (In Rack)	Extron MAV Plus Series
6	1	VHS/DVD Player (In Rack)	DMR - E248V
7	1	Power Amplifier (In Rack)	Crown 660A
8	1	Power Supply (In Rack)	Creston CNPWS75
9	1	Projector with mount	Barco IQ - R500
10	2	Ceiling Speakers	JBL K24T
11	4	Speaker Brackets	N/A
12	1	Television Tuner	Creston C2N - TTVFM
13	1	Projection Screen	Stewart Filmscreen VE120VGHRS3W
14	1	Interface Module	Creston TPS - IMPC
15	1	Touch Panel	Creston TPS - 3000
16	1	Microphone	Shure Micoflex MX392/C
17	1	DVD Remote Control	Panasonic
18	1	Remote Control	Elmo RCW - PT2S
19	2	Remote Control	Barco
20	1	TPS Interface (located in leg of table)	No Table was located in Room

12.1.2 Addendum 2, GFE originally from 1035C – Equipment List

Line	Quantity	ITEM DESCRIPTION	MODEL
1	1	Projector with Ceiling Mount	Cannon SX800
2	4	Ceiling Speakers	JBL K24T
3	8	Speaker Brackets	N/A
4	1	Component Rack	N/A
5	1	Power Container (In Rack)	Furman PL - 8C
6	1	Interface Module (In Rack)	Creston TPS - IMPC
7	1	Control Processor (In Rack)	Creston Pro 2
8	1	DVD Player (In Rack)	JVC DR - MV150B
9	1	Wide Range Receiver (In Rack)	HT - R570
10	1	A/V Conference Processor (In Rack)	Clear One XAP400
11	1	Audio Matrix Switcher (In Rack)	Extron MUX44VGA A
12	1	AV Distribution Amplifier (In Rack)	Extron MDA4VEQ
13	1	Mixer Power Amplifier (In Rack)	TOA BG1030
14	1	Touch Panel	Creston TPS - 3000
15	1	Interactive Dock	Onkyo UP - A1
16	1	Remote Control	ALTEC Lansing ADA885
17	1	Remote Control	Cannon RS03
18	1	Remote Control	Onkyo RC - 736M
19	1	USB Hub	Extron AAP

12.1.3 Addendum 3, GFE originally from 1040C – Equipment List

Line	Quantity	Item Description	Model
1	1	Projector	Epson PowerLite 811p
2	1	Projector mount was rusted in ceiling could not be remove	N/A
3	1	Flat Panel Monitors	LG 50PC5DC
4	1	Flat Panel Monitors	LG 50PC5DC
5	2	Flat Panel Monitor Mounts	Electrograph ELE - FM50
6	1	VTC Codec with ALL Accessories	Polycom VSX 7000e
7	1	Camera for the VTC Codec	Polycom MPTZ - 5N
8	1	Microphone	Polycom
9	1	VGA Distribution Amplifier	Extron P/ZDAYXI
10	1	AV Distribution Amplifier	Extron MDA3A
11	1	Power Supply	Extron SPV24 - 105
12	1	Interface Router	GPNP NT512A
13	Misc.	Patch Cables/Ethernet Cables/IEC Cables /Power supply Cords	N/A
14	1	Shelf (for VTC Codec with screws and bolts)	Black Shelf

13. Standardization

13.1 TARDEC has chosen Crestron to provide the controller system for all audio visual and conference rooms; this is an un-substitutable item on the equipment list. The source code for the controller will be provided to the awarded contractor by the Government along with a data map. This code and data map should only be modified to change item call codes, unless directed otherwise by the COR. No changes to format, theme or screen order is allowed unless approved by the COR on this task order. The source code is property of the Government and shall not be used at any non-Government location.

13.2 The Contractor shall procure and install components listed in tasks 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 and 11 to integrate and function with existing facilities, fixtures and furniture in the room. Unless the Contractor can prove by written comparison that an alternative item would provide the same or greater specifications for less cost, the equipment lists are as stated. Since commercially available audio visual equipment changes and improves rapidly, the contractor may find, through market research, that a more suitable, less costly component will satisfy the technical specification of the requirement. When that is the case, the contractor shall make the recommendation, in writing, to the COR for a material option of, at minimum, an equivalent technical specification and function, to include full documented technical specification comparison and cost disclosure. The contractor shall proceed with any alternate component(s) only after approval from the COR.

13.3 All computers shall be Government furnished

13.4 All equipment shall be of commercial grade in order to be optimally controlled by the AV controller. The Government reserves the right to refuse any equipment that is not of commercial grade.

13.5 Flat panels are not always able to be attached directly to the wall. In the case of rooms where the flat panels are to be placed against walls that are glass, metal, cinder block or other material other than drywall, the flat panels are to be hung from the ceiling using stable ceiling mount brackets. These mounts must be installed such that the flat panel is as close to the wall as regulations allow in order to reduce safety hazards with the seating along the outside wall.

13.6 All AV controller panels shall be Radio Frequency (RF) wireless, with a wall mount charger if the room does not contain a console unit, or a desk charger if it does, and shall not require a wireless access point.

13.7 In the Large and Small conference room configurations, visitors shall be able to connect at minimum two laptops, if GFE allows, to the presentation system from the presentation table; in the very small conference room configuration, one guest laptop connection is sufficient. VGA is required. A minimum of one VGA with audio is required.

13.8 For all conference room configurations, network, power cabling, and USB (extended to where the "house" computer will be placed) will also be required at the table, allot space in the cable cubbies as necessary.

14. Testing and Adjustment

14.1 At the completion of an installation the Contractor shall perform functional tests on the system to insure proper installation of any replaced or repaired components. The functional tests shall include operational tests of all program source equipment (record and playback), system inputs and outputs, control programming, IRC interface operation, operational controls, AC power sequencing, and all system electronics. Functional tests include examination for hum, buzz, hiss, oscillation or any other unwanted signals through the system.

15. Inspection

15.1 Upon completion of integration activities, the Government shall have 15 days to inspect and test the equipment and approve installation to the room. If the system is not approved the contractor shall have 7 days to address and correct the problem. Within 7 days the Government will inspect all corrections. This process will repeat as necessary until the Government approves the installation.

16. Training

16.1 In accordance with C.3.9 the Contractor shall provide training to a group of no more than 6 users for up to 2 hours, within 5 days of approval of the completion of the conference room. The Contractor shall meet with the group in the VTC facility and demonstrate the VTC system functionality, AC power sequencing and answer any questions the group may have as to the operability of the system.

17. As-Built Drawings/Diagrams and Programming

17.1 As-Built Drawings. The Contractor shall provide comprehensive As-Built drawings, diagrams, project plan, wiring schematic, controller source code, test/verification plan, and any other supporting documentation of the installed VTC suite. The As-Built drawings, diagrams, and documentation of installed system(s) must identify Audio and Video input/output routing, Control and Power, along with applicable connector pin-out/s, rack elevation, and room diagrams for historical, accreditation,

and troubleshooting purposes. The Contractor shall provide as-built drawings/diagram and system programming (controller source code that was actually used in each of the rooms) within 30 days of completion of installation.

18. Documentation

18.1 Property Accountability. Contractor shall provide a listing of Contractor installed equipment/components for property accountability. Listing shall include item description, quantity, model, and serial number of the equipment/component. Contractor shall provide both hard copy and soft copy of inventory. Soft copy can be provided via email to the Government COR using MS Excel 2007 or compatible file. The Contractor shall provide property inventory within 14 days of completion of installation.

18.2 A copy of the manufacturer's cut-sheets, product literature, and warranty information for all components/equipment the Contractor installed, shall be provided to the Government COR. This information may be provided by the contractor, as electronic files in the Adobe Portable Document Format (PDF) version X or later, to the Government at the time as-built drawings/diagrams and programming are delivered.

18.3 Installation Requirements. The Contractor shall provide a list of all installation requirements for AV rack, power, screen and flat panel installation to include power and installation requirements within 30 days of contract award. All minor building construction needs must be conducted by local Base Operations. This is to include low voltage power installations, 120v and 240v power installations, drywall, painting, patching and lighting. The Government shall coordinate with Base Ops and fund all necessary minor construction in order to install necessary power, patch holes and move/remove lighting as necessary.

18.4 Floor wiring to meeting table and console stations must be run within existing conduits, if available. If an AV wire track is not provided in the room already, one may be required in order to allow for laptop connectivity at both the meeting table and the console station, if separate. All AV tracks must be installed under the carpet and in the least traffic area of the room in order to reduce a trip hazard. Location of AV track shall be approved by the COR prior to installation.

19. Meetings

19.1 The contractor shall facilitate a "Start of Work" meeting in accordance with section C.3.11.1 of the PWS. This meeting shall be held once, prior to the start of work and within 15 days of award. The contractor shall prepare an agenda and provide meeting minutes to the COR as part of the first Monthly Contract Progress and Management Report IAW CDRL A001.

20. Hours of Operation/Work Hours

20.1 Installation hours are 0800 – 1600, Monday through Friday and except holidays as referenced in section 8.7 of the contract.

21. Warranty

21.1 A minimum of one-year warranty shall be provided from the date of acceptance to cover all new Contractor provided equipment and installation related to cabling and physical workmanship.

21.2 A 90 day warranty, from date of contractor task order acceptance, shall be provided for any GFE installation related to cabling and physical workmanship. If the GFE equipment doesn't perform, the government will be responsible for repair and/or replacement. The government will ensure GFE is working prior to contractor installation.

22. System Maintenance

22.1 In accordance with C.3.7 the contractor shall inspect equipment and provide quarterly preventive maintenance for all material components and system assemblies under this task order for 12 months after Government approved system inspection. This maintenance shall include: Cleaning projector/flat panel filters and housings, recording lamp run times, projector/flat panel run times, testing all sources and destinations, realigning images on projectors/flat panels, confirming cable connection points, calibrating, testing audio/video quality, firmware/software updates.

22.2 If after maintenance of the rooms the contractor reports that a component is not functioning properly or if any parts require replacement, the contractor shall utilize the minimum one (1) year warranty required in section 12 and provide a list of recommended repairs to include warranty service on material components, labor and associated costs to the COR. The COR shall have 15 days to approve costs prior to the execution of those recommended actions, after which time a modification may be executed to this task order. Under no circumstance shall the contractor execute work for repairs which are not approved by the COR and funded under this task order for one (1) year after acceptance.

23. Deliverables

Any/all components that are specified and delivered but are not directly hard-wired into the A/V system (i.e. accessory cables, pointers, etc.) shall be delivered directly to the Government Contact.

CDRL A001 -- Contractor shall submit Monthly Contract Progress and Management Report as required in C.3.3.1. Design Drawings, Wiring Schematics and Equipment List as required in C.3.4. System Programming as required in C.3.5.

CDRL A002 -- Contractor shall submit Technical Report as required in C.3.3.2. System Test Plan IAW C3.6.3

List of all installation requirements for AV Rack, power, screen and flat panel installation IAW this task order.

SECTION E - INSPECTION AND ACCEPTANCE

The following Acceptance/Inspection Schedule was added for CLIN 0013:

INSPECT AT Destination	INSPECT BY Government	ACCEPT AT Destination	ACCEPT BY Government
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SECTION F - DELIVERIES OR PERFORMANCE

The following Delivery Schedule item for CLIN 0001 has been changed from:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
POP 28-SEP-2013 TO 27-SEP-2014	N/A	TARDEC VERNARD HESTER VERNARD HESTER RDTA-CM VERNARD.O.HESTER.CIV@MAIL.MIL WARREN MI 48397-5000 586-282-5950 FOB: Destination	W91ATL

To:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
POP 28-SEP-2013 TO 26-MAR-2015	N/A	TARDEC VERNARD HESTER VERNARD HESTER RDTA-CM VERNARD.O.HESTER.CIV@MAIL.MIL WARREN MI 48397-5000 586-282-5950 FOB: Destination	W91ATL

The following Delivery Schedule item for CLIN 0003 has been changed from:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
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POP 28-SEP-2013 TO 27-SEP-2014	N/A	TARDEC VERNARD HESTER VERNARD HESTER RDTA-CM VERNARD.O.HESTER.CIV@MAIL.MIL WARREN MI 48397-5000 586-282-5950 FOB: Destination	W91ATL
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To:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
POP 28-SEP-2013 TO 26-MAR-2015	N/A	TARDEC VERNARD HESTER VERNARD HESTER RDTA-CM VERNARD.O.HESTER.CIV@MAIL.MIL WARREN MI 48397-5000 586-282-5950 FOB: Destination	W91ATL

The following Delivery Schedule item for CLIN 0004 has been changed from:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
POP 28-SEP-2013 TO 27-SEP-2014	N/A	TARDEC VERNARD HESTER VERNARD HESTER RDTA-CM VERNARD.O.HESTER.CIV@MAIL.MIL WARREN MI 48397-5000 586-282-5950 FOB: Destination	W91ATL

To:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
POP 28-SEP-2013 TO 26-MAR-2015	N/A	TARDEC VERNARD HESTER VERNARD HESTER RDTA-CM VERNARD.O.HESTER.CIV@MAIL.MIL WARREN MI 48397-5000 586-282-5950 FOB: Destination	W91ATL

The following Delivery Schedule item for CLIN 0005 has been changed from:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
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POP 28-SEP-2013 TO 27-SEP-2014	N/A	TARDEC VERNARD HESTER VERNARD HESTER RDTA-CM VERNARD.O.HESTER.CIV@MAIL.MIL WARREN MI 48397-5000 586-282-5950 FOB: Destination	W91ATL
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To:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
POP 28-SEP-2013 TO 26-MAR-2015	N/A	TARDEC VERNARD HESTER VERNARD HESTER RDTA-CM VERNARD.O.HESTER.CIV@MAIL.MIL WARREN MI 48397-5000 586-282-5950 FOB: Destination	W91ATL

The following Delivery Schedule item for CLIN 0006 has been changed from:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
POP 28-SEP-2013 TO 27-SEP-2014	N/A	TARDEC VERNARD HESTER VERNARD HESTER RDTA-CM VERNARD.O.HESTER.CIV@MAIL.MIL WARREN MI 48397-5000 586-282-5950 FOB: Destination	W91ATL

To:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
POP 28-SEP-2013 TO 26-MAR-2015	N/A	TARDEC VERNARD HESTER VERNARD HESTER RDTA-CM VERNARD.O.HESTER.CIV@MAIL.MIL WARREN MI 48397-5000 586-282-5950 FOB: Destination	W91ATL

The following Delivery Schedule item for CLIN 0012 has been changed from:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
POP 15-AUG-2014 TO 27-SEP-2014	N/A	TARDEC VERNARD HESTER VERNARD HESTER RDTA-CM VERNARD.O.HESTER.CIV@MAIL.MIL WARREN MI 48397-5000 586-282-5950 FOB: Destination	W91ATL

To:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
POP 15-AUG-2014 TO 26-MAR-2015	N/A	TARDEC VERNARD HESTER VERNARD HESTER RDTA-CM VERNARD.O.HESTER.CIV@MAIL.MIL WARREN MI 48397-5000 586-282-5950 FOB: Destination	W91ATL

The following Delivery Schedule item has been added to CLIN 0013:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
POP 26-NOV-2014 TO 26-MAR-2015	N/A	TARDEC VERNARD HESTER VERNARD HESTER RDTA-CM VERNARD.O.HESTER.CIV@MAIL.MIL WARREN MI 48397-5000 586-282-5950 FOB: Destination	W91ATL

SECTION G - CONTRACT ADMINISTRATION DATA

Accounting and Appropriation

Summary for the Payment Office

As a result of this modification, the total funded amount for this document was increased by \$6,200.00 from \$327,979.50 to \$334,179.50.

CLIN 0013:

Funding on CLIN 0013 is initiated as follows:

ACRN: AB

CIN: GFEBS001056455500002

Acctng Data: 0212014201520400000663633323 R.0009845.1.82 6100.9000021001

Increase: \$6,200.00

Total: \$6,200.00

Cost Code: A60FL

(End of Summary of Changes)