



THE SCHOOL BOARD OF MIAMI-DADE COUNTY, FLORIDA
 SCHOOL BOARD ADMINISTRATION BUILDING
 Procurement Management Services
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BID/RFP ADDENDUM

Date: 05/06/2016

Addendum No. 2

BID/RFP# ITB-15-079-CV BID/RFP TITLE: Television Production Studio Equipment, Supply & Installation

This addendum modifies the conditions of the above referenced BID/RFP as follows:

1. Please see attached documents with questions and answers and additional important changes to this ITB.
2. ITB due date has been change to Thursday, May 12, 2016 @ 2:00 p.m.

All other terms and conditions remains the same.

All information, specifications terms, and conditions for the above referenced BID/RFP, is included on the document posted on the Procurement Management website at <http://procurement.dadeschools.net>

The attached pages containing clarifications, additional information and requirements constitutes an integral part of the referenced bid.

1. If your bid/proposal has not been submitted, substitute the pages marked REVISED and mail your entire bid/proposal package. **REMEMBER TO SIGN THE BIDDER QUALIFICATION FORM.**

OR

2. If your bid/proposal has been submitted, sign and return this addendum form with the revised pages by the time and date indicated on the Bidder Qualification Form. **BY SIGNING THIS ADDENDUM, THE VENDOR AGREES TO THE TERMS AND CONDITIONS CONTAINED IN THE BIDDER QUALIFICATION FORM AND ALL RELATED BID DOCUMENTS.**

I acknowledge receipt of Addendum Number 2

PLEASE NOTE: If your firm has forwarded a copy of this bid/proposal to another vendor, it is your responsibility to forward them a copy of this addendum.

(PLEASE TYPE OR PRINT BELOW)

LEGAL NAME OF BIDDER: _____

MAILING ADDRESS: _____

CITY, STATE ZIP CODE: _____

TELEPHONE NUMBER: _____ E-MAIL I.D. _____ FAX # _____

BY: SIGNATURE (Manual): _____
 OF AUTHORIZED REPRESENTATIVE

NAME (Typed): _____ TITLE: _____
 OF AUTHORIZED REPRESENTATIVE

QUESTIONS AND ANSWERS
ITB-15-079-CV
TELEVISION PRODUCTION STUDIO, EQUIPMENT, SUPPLY & INSTALLATION

1. "I would like to confirm that you are requesting for us to include a total lump sum bid price on Tuesday May 10th along with the documents from Section 2.5."

Answer: Yes, we are requesting a lump sum price along with an itemized cost for each item in the attached MASTER ITV EQUIPMENT LIST – SENIOR HIGH SCHOOL. The ITB due date has been extended.

2. "So for clarification, MDCSD is requesting pricing? If so, we will need an extension to the timeframe in order to provide plus a walk through will be needed in order to provide accurate quotes."

Answer: Please see question 1.

A walk-through may be coordinator with the Miami Norland Senior MDCPS Project Manager Don Bailey (305-995-4573 or 786-452-5189)

3. "From the drawings provided, these are not build to system drawings. Is MDCSD providing or are vendors providing that work?"

Answer: The Sketches provided by MDCPS are graphical in nature and not intended to be used for scaling. They are merely to be used as relational placement of the specified equipment. Actual wiring to connections shall be determined by the vendor to ensure a fully operational system.

4. "If the design is missing any equipment to provide functionality or a complete system, who is responsible to provide since we are just pricing the equipment MDCSD is requesting"

Answer: The awarded vendor shall be responsible to provide all wiring and equipment necessary to make the system fully functional as per the specifications noted in the ITV MASTER EQUIPMENT INSTALLATION. Any changes need to be brought to the attention of the MDCPS Project Manager prior to completion to obtain approval of change.

5. At the meeting this subject was specifically discussed and it was determined that pricing would not be part of this bid for prequalification.

Answer: Please see question number 2.

6. How can I give you a turnkey price for labor and material without seeing the actual facility? As you know, each location has its own characteristics and requirement which will determine how much labor and engineering and cable is required. You are asking us to shoot from the hip without knowing what we are getting into.

Answer: Please see question #1, 2 and 4.

SECTION 3.0 - PRICE PROPOSAL LIST

[Signature is required at the end of this Section 3.0]

Bidder must complete this section in its entirety, and may supplement this section with additional pages as to provide the District with a more detailed breakdown, backup and/or options of related cost associated with the services being solicited in this ITB.

Provide itemized detail for each item in the spreadsheet below. Please note, prices are requested in units of quantity specified in the Bid's Scope of work. In case of discrepancy in computing the total amount of the bid, Unit Price quoted will govern. All prices shall include delivery F.O.B ("Free on Board") destination, freight prepaid (bidder pays and freight charges. Bidder owns goods in transit and files any claims) and shall include all cartage, drayage, packing, etc., delivered to and unloaded at the receiving station at the site designated in the Bid Proposal and there received by the designated agent of the Board.

The Total Cost proposed will be firm and fixed for the life of the contract, a period of two years, with the option of three (3) one year contract extensions. The Bidder shall offer all of the elements of this ITB and meeting all service requirements and specifications listed within **Section 2.0 - Scope of Services**, including but not limited to all services, materials, training, maintenance, and fees.

All chargeable services shall be included in the proposed total price including all labor customarily associated with delivery of the services contemplated by this ITB. The information in this ITB is to be utilized solely for preparing the proposal response to this ITB and does not constitute a commitment by the District to procure any product in any volume.

For this Section 3.1 – BID PRICE PROPOSAL FORM:

ITV EQUIPMENT INSTALLATION – SENIOR HIGH SCHOOL

PRODUCTION STUDIO:

1. Provide three (3) HD-SDI Camera setups, each fully equipped with lens, viewfinder, Triax adaptor, handlers, zoom controls, and Teleprompter display. Each camera shall be powered through a 3/8" "extra flexible" Triax cable. Each camera set-up shall have a dedicated 17" LCD monitor with Teleprompter system mounted on the pedestal, an intercom system, and a video program return at camera LCD 16:9 viewfinder, switchable at one touch from the zoom control.
 2. Each camera system shall be mounted on its own 3-stage pedestal type tripod with dolly, capable of handling the total load of the Teleprompter, the camera Triax adaptor, lens assembly, studio camera viewfinder, zoom and focus controls, plus handler bars with counter-balance weight capable.
 3. Provide three (3) 50-foot long Triax jumper cables with appropriate end connectors, for use with cameras set up.
 4. Each camera system shall be capable of powering the Teleprompter directly from the camera. The use of external AC adaptors for this purpose is NOT ALLOWED.
 5. At the 12"X12"X8" Junction Box (j-box) located next to the Chroma-key wall, provide an I/O cover-panel assembly, with provision to plug-in three (3) microphones, two (2) separate intercom/ IFB, one (1) HD-video program OUT, one (1) HD-video-to-HD-video production switcher and one (1) Teleprompter BNC IN.
 6. Provide and install three (3) microphones with table stand and extra flexible audio cables terminated with XLR connectors, and connected to the audio microphone panel.
 7. Using existing 4"X4"X4" j-box located 7'-0" AFF on wall opposite Chroma-key wall, provide and install two (2) wall-mounted speakers and one (1) wall-mounted slave countdown clock, all facing the Chroma-key wall.
 8. Using existing 4"X4"X4" j-box located at 18" AFF on wall opposite to Chroma-key wall at 18" AFF, provide and install one (1) 40" LED TV/monitor with HDMI connector, pedestal and rollers.
 9. Provide and install four (4) headsets with microphone (single earmuff), one for each Camera Operator and one for Floor Manager.
 10. Provide and install three (3) wireless body pack transmitters with ME-2 microphones.
- See attached "MDCPS CCTV/ITV SYSTEM: SENIOR HIGH – Production Studio Sketch No. SH006 – Top View" for equipment layout. Please note that the attached sketch is not to scale.

CONTROL ROOM:

11. Provide and install a six (6) bay equipment console, to accommodate all equipment indicated on the Senior High School ITV Equipment List & Specifications including, the Video Camera Control Unit (CCU) operator station, the Technical Director station, the character-generator operator station, the Teleprompter Operator station, and the Audio operator station. Maintain minimum of 36" clearance from the wall to the rear face of the console for service and maintenance purposes. One end of the equipment console shall be placed against the wall next to main 36"X36"X8" I/O j. box, leaving access to the other end.

12. The ITV system shall be capable of sending and receiving digital HD-SDI MPEG-2/DOLBY AC3 (two (2) channels) audio signal embedded to-and-from the Distribution Room router system.
13. Provide and install all necessary wiring for recording and playback to all HD-SDI recorder/player units.
14. Each console bay must have power strip with surge protector mounted inside each rack to power all the equipment with the flick-of-a-switch.
15. The complete system is to be designed in SD/HD-SDI, MPEG-2 and QAM 64 / 256 J.83 Annex B format, 16:9 aspect ratio, 480i, 1080i capable.
16. Provide and install two (2) HD-SDI Tapeless file-base recording and playback machines, with file transfer access over Ethernet.
17. Provide and install one (1) HD-SDI Blu-ray recorder/playback unit with IN and OUT BNC connectors and Ethernet access control.
18. Provide and install one (1) HD/SD-SDI video production switcher with sixteen (16) inputs, two (2) ME special effects, menu display, USB-3 port and Ethernet control access.
19. Provide and install one (1) video editing system with monitor and keyboard, including software and licenses.
20. Provide and install one (1) HD-SDI single channel character generator, in a rack-mount configuration.
21. Provide and install one (1) 24" full HD (1920X1200) widescreen monitor, rack-mount configuration, to be used as a character generator monitor.
22. Provide and install complete Teleprompter system, in a rack-mount configuration, connected to all three (3) studio cameras.
23. Provide and install one (1) 24" full HD (1920X1200) widescreen monitor, rack-mount configuration, to be used as Teleprompter monitor.
24. Provide and install one (1) HD 40" LED (multi-view) monitor able to display, program, and preview, all cameras, recorders and players from video production switcher output. Unit shall be mounted on a pedestal behind the Production console facing the Technical Director station.
25. Provide and install two (2) speakers mounted in a desktop configuration, located adjacent to the Program monitor.
26. Provide and install one (1) 17" HD-SDI OLED to be used as a quality control monitor for the camera control unit (CCU) operator. Unit shall be mounted in a desktop configuration, facing the camera remote control panels (RCP).
27. Provide and install one (1) 12X1 HD-SDI serial digital switcher.
28. Provide and install one (1) serial digital sync generator.
29. Provide and install one (1) rasterizer (waveform/vector) analyzer in a rack-mount configuration.
30. Provide and install twenty-two (22) channel audio console mixer with equalization per channel, talk back and tone generator, in a desktop configuration.
31. Provide and install two (2) audio stereo amplifiers, in a rack-mount configuration.
32. Provide and install one (1) Blu-ray/DVD/CD duplicator, with four (4) slave bays, in a desktop configuration.
33. Provide and install one (1) combo master clock/count down unit, with 2" display, in a rack-mount configuration.
34. Provide and install one (1) master intercom station with two (2) channels, power supply and speakers, in a rack-mount configuration.
35. Provide and install one (1) 12" gooseneck type microphone.

36. Behind Rack #1, provide a Triax cable patch-panel containing three (3) female chassis connectors capable of switching all three (3) cameras from the Production Studio, Auditorium/Cafetorium, Gymnasium or Language Arts Lab (Little Theater) locations.
 37. From the existing 36"X36"X8" I/O j-box located in the Control Room, and using the existing 4" conduit, provide and install the following:
 - a. Three (3) Triax camera cables, terminating at three (3) existing 12"X12"X8" j-boxes located in the Auditorium/Cafetorium sitting area. One cable shall be terminated at the j-box located at the center of the "apron" of the stage. The other two (2) cables shall be terminated at j-boxes located opposite to each other, on walls perpendicular to the stage opening. These cables shall pass through the existing 12"X12"X8" j-box located by the Control Booth in the Auditorium/Cafetorium area (j-box faces the stage).
 - b. Two (2) CAT 6 cables and two (2) intercom cables all terminated at the existing audio rack located in Auditorium/Cafetorium Control Booth. These cables, with appropriate connectors, shall pass through the existing 12"X12"X8" j-box located adjacent to the Control Booth serving the Auditorium/Cafetorium (j-box faces the stage). These cables shall be connected to the Audio Program Out from existing audio console provided by others, and be able to feed signals back and forth.
 38. From the existing 36"X36"X8" I/O j-box located in the Control Room, and using the existing 2" conduit, provide and install the following:
 - c. One (1) Triax camera cable terminating at the existing 8"X8"X8" junction box located in the Gymnasium. This cable shall pass through the audio rack serving the Gymnasium.
 - d. Two (2) CAT 6 cables and two (2) intercom cables all terminated at existing audio rack serving the Gymnasium. These cables, with appropriate connectors, shall be connected to Audio Program Out from the existing audio console provided by others, and be able to feed signals back and forth.
 39. From the existing 36"X36"X8" I/O j-box located in the Control Room, and using the existing 2" conduit, provide and install the following:
 - e. One (1) Triax camera cable terminating at existing 8"X8"X8" junction box located in the Language Arts Lab (Little Theater). This cable shall pass, through the audio rack located in the control booth serving this area.
 - f. Two (2) CAT 6 cables and two (2) intercom cables all terminated at existing Audio Rack located in Language Arts Lab (Little Theater). These cables, with appropriate connectors, shall be connected to the Audio Program Out from the existing audio console provided by others, and be able to feed signals back and forth.
- See attached "MDCPS CCTV/ITV SYSTEM: SENIOR HIGH - Control Room Sketch No. SH004 Front View" and "Control Room Sketch No. SH005 Top View" for Racks and Equipment Layout. Please note that the attached sketches are not to scale.
 - See attached "MDCPS CCTV/ITV System: SENIOR HIGH – School Facility Sketch No. SH008 Distribution Raceways" for Conduit Raceway Prototypical Layout. Please note the attached sketch is not to scale.

Note: Bidders shall base their quotes on the length of the existing 2"X4" conduits to be a maximum of 700 feet each run. These runs include from the Control Room I/O j-box, to the respective terminating I/O j-boxes at the Auditorium/Cafetorium, Gymnasium, and the Language Arts Lab (Little Theater).

DISTRIBUTION ROOM:

40. There will be three (3) gangable racks (Racks #1, #2 and #3) that will be provided by others. Rack #1, will be reserved for the installation of the High Definition Players, Recorders, Monitors, Computer, Router, Encoders, and RF distribution equipment.
41. The RF amplifier will be provided by others. However, all wiring to the input of the main RF amplifier shall be provided and installed under the scope of this work.
42. The system shall be capable of recording and play back CATV (Clean QAM) signals into all HD-SDI devices.
43. In Rack #3, provide and install one (1) computer rack-mount with monitor, mouse, and keyboard as an in-house Info-Channel.
44. In Rack #2, provide and install two (2) HD-SDI Blu-ray recorder/players with BNC IN/OUT connectors.
45. In Rack #2, provide and install one (1) HD-SDI recorder/player with removable solid-state drives and two (2) SSD cards to enable redundancy file storage.
46. In Rack #2, provide and install three (3) dual-pack HD-SDI color monitors, in a rack-mount configuration.
47. In Rack #1, provide and install one (1) four-pack Analog color monitor, in a rack-mount configuration, with video loop on each monitor.
48. In Rack #3, provide and install one (1) 24" HD LED TV/monitor with (ATSC/NTSC/QAM) tuner, in a rack-mount configuration, to serve as a main distribution monitor.
49. In Rack #3, provide and install one (1) TV/cable (ATSC/NTSC/QAM) Demodulator with BNC output connector, in a rack-mount configuration.
50. At the bottom of Rack #1, adjacent to the existing 36"X36"X8" main "Hub" j-box, reserve eight (8) rack unit spaces for placement of the RF main amplifier, which will be provided by others.
51. In Rack #3, provide and install one (1) sixteen-by-sixteen (16 X 16) HD-SDI (audio embedded) router, with BNC 75 OHMS connectors, with assigned sources and destinations labeled, as follows:

INPUT		OUTPUT	
1	TV Studio	1	HD-Encoder (1)
2	Blu-ray (1)	2	HD-Encoder (2)
3	Blu-ray (2)	3	HD-Encoder (3)
4	PIX (1)	4	HD-Encoder (4)
5	Demodulator	5	Blu-ray (1)
6-16	Spares	6	Blu-ray (2)
		7	PIX (1)
		8-15	Spares
		16	TV Monitor

52. In Rack #1, provide and install:
 - One (1) Six-slot frame (host) with power supply;
 - Four (4) HD-SDI to QAM 256 Encoders;
 - Two (2) Double audio/video base band to QAM-256 Encoders;
 - One (1) Double VGA/HDMI/audio/video base band to QAM-256; and
 - Three (3) Ch-3 CATV/NTSC to audio/video base band Demodulators
53. Balance and combine complete Head-End System to main RF amplifier, including channels 36 and 39, coming from existing EBS down converter installed by others.

54. Follow MDCPS CCTV/ITV Channel Lineup chart below for channel assignment to radio frequency final combiner.

MDCPS CCTV/ITV Channel Lineup		
CH-#	Format	Description
36.1	SD	EBS-A4
36.2	SD	EBS-A4
36.3	SD	EBS-A4
36.4	SD	EBS-A4
36.5	SD	EBS-A4
36.6	SD	EBS-A4
39.1	SD	EBS-D4
39.2	SD	EBS-D4
39.3	SD	EBS-D4
39.4	SD	EBS-D4
39.5	SD	EBS-D4
39.6	SD	EBS-D4
40	HD	PRODUCTION STUDIO
41	HD	BLU-RAY (1)
42	HD	BLU-RAY (2)
43	HD	PIX PLAYER
44	SD	COMCAST (1)
45	SD	COMCAST (2)
46	SD	COMCAST (3)
47	SD	SPARE
48	HD	INFO-CHANNEL
49	HD	SPARE

55. All blank spaces shall be filled with vented filler panels.
 56. All equipment shall be mounted with tamperproof screws.
 57. Consult WLRN Engineering Dept. at (305) 995-1717 for additional information and coordination.

- See attached "**MDCPS CCTV/ITV SYSTEM: SENIOR HIGH - Distribution Room Sketch No. SH001 - Front View**", "**Distribution Room Sketch No. SH002 – Top View**" and "**Distribution Room Sketch No. SH003 – Wiring Distribution**" for equipment layout. Please note that the attached sketches are not to scale.

EDITING ROOM 1 and 2:

58. Using the existing 8"X8"X4" j-box located in each Editing Room, and using existing 2" conduit, provide all necessary interconnection cables to send HD-SDI and data control signals to and from Control Room production switcher.
 59. At each Editing Room, provide and install one (1) Apple i-Mac edit system station, which shall be self-contained with monitor, hard drive, headphones, and licensed software.
 60. At each Editing Room provide and install one (1) mobile workstation with casters.

- See attached "MDCPS CCTV/ITV SYSTEM: SENIOR HIGH - Editing Room 1 & 2 Sketch No. SH007 – Top View" for equipment layouts. Please note that the attached sketch is not to scale.

PROP STORAGE ROOM:

61. Provide three (3) single stage tripods for camera setup.
62. Provide three (3) portable HD-video cameras with two (2) spare memory cards, two (2) spare batteries for each camera, and three (3) lavalier microphones for studio use and on-site Electronic News Gathering (ENG) TV productions.
63. Provide three (3) dual-stage tripods (studio configuration) with panhandle for on-site and ENG TV productions.
64. Provide three (3) one (1) channel IFB portable belt packs (hard-wired system).
65. Provide one (1) 50-foot long Triax jumper cable with appropriate end connectors, for camera setup in the Language Arts Lab (Little Theater).
66. Provide one (1) 100-foot long Triax jumper cable with appropriate end connectors, for camera setup in the Gymnasium.
67. Provide three (3) 150-foot long Triax jumper cables with appropriate end connectors, to be used in the Auditorium/Cafetorium area for TV productions.

GENERAL INSTRUCTIONS:

68. **FREIGHT AND TRANSPORTATION:** Provide and deliver to school location all Equipment, Engineering Logistics, and System Integration. Consult and coordinate with MDCPS Project Manager for installation schedule.
69. **SIGNAL FORMAT CONVERSION AND DISTRIBUTION:** Provide all necessary electronics, accessories, and devices for signal format conversion and distribution including D/A's, bit rate, video, frame ratio, and audio embedding/de-embedding. All devices shall be installed in a four-rack space and in a multi-slot type configuration, reserving two (2) empty slots for future expansion.
70. **INSTALLATION, COMMISSIONING and TRAINING:** Provide:
 - all required equipment from attached Senior High School ITV Equipment List & Specification;
 - all labor and installation;
 - all necessary cables and connectors;
 - TRIAX cables and jumpers;
 - fiber encoders & decoders (when necessary due to distance issues always consult with WLRN Engineering Dept. at 305- 995-1717);
 - vented blank panel to cover un-used spaces in racks and console;
 - tamperproof screws;
 - Ethernet switcher/router for initial set up and equipment's operation requiring RJ-45 access in Control and Distribution room;
 - always use existing conduits provided by M-DCPS, provide Triax patch panel and I/O j-box cover with audio/video connectors;
 - equipment operation and maintenance manuals;
 - Warranty documentation on entire installation;
 - as-built diagrams for complete TV production/distribution system; and
 - eight (8) hours hands-on operational training for on-site MDCPS staff.

Note: Complete ITV System shall operate in SD/HD-SDI (480i/1080i) format, provide combined "RF" signals to main amplifier input with the maximum of 10 dBmV, of (clean) not-encrypted 64/256 QAM ITU J.83 Annex B signal format, with proper signal balance of ± 1.5 dBmV through the spectrum, MER: > 44 dB equalized, and a maximum output of 43 dBmV. Consult and coordinate with MDCPS for final inspection date.

Please note that the attached MDCPS CCTV/ITV SYSTEM: SENIOR HIGH sketches 1 through 8 are not to scale.

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Section 3.1 COMMODITIES PROPOSAL LIST:

MASTER ITV EQUIPMENT LIST SENIOR HIGH SCHOOL				
	Description of Item	Qty.	Price per Unit	Extended Cost
PRODUCTION STUDIO				
1	SONY HXCD70 Triax Camera System - Product substitution not allowed: <ul style="list-style-type: none"> • HXCD70K Camera with 16X Zoom Lens; • VCT14 Tripod Adaptor; • CATX70 Triax Adaptor; • DXFC50WA 5" Color Viewfinder; • HXCU-TX70 CCU Camera Control Unit; • RCP1500 Remote Control Panel; • CCA5/10US Cable from RCP to CCU; and • MS01/X1 FUJINON Lens Remote Control. 	3 3 3 3 3 3 3 3		
2	LIBEC RSP-850PD (S): Pedestal system with 850 Head. Product substitution not allowed.	3		
3	JBL CONTROL1 PRO: 2-way Compact Loudspeaker System (Black) with mounting bracket, or accepted equivalent as approved by M-DCPS and WLRN	2		
4	ESE 996U: 2.3" Serial Slave (Red) Clock Display. Product substitution not allowed.	1		
5	Monitor and Stand: <ul style="list-style-type: none"> • SAMSUNG UN40J6200AFXZA: 40" LED 1920X1080 TV monitor and HD-SDI to HDMI Converter or accepted equivalent as approved by M-DCPS and WLRN. • KANTO MTM65PLUS: Mobile TV stand, or accepted equivalent as approved by M-DCPS and WLRN. 	1 1		
6	TELEX PH1R5: Single-side headset with A5M/XLR connector. Product substitution not allowed.	3		
7	TELEX PH1: Single-side headset with A4M/XLR connector. Product substitution not allowed.	1		
8	TELEX IFB-1000: One (1) Channel IFB Portable Belt Pack. Product substitution not allowed	3		
9	TELEX BP-1002: One (1) Channel Belt Pack. Product substitution not allowed.	1		

10	TELEX CES-1: Complete ear set (RTV-04, CMT-02, ET-4). Product substitution not allowed.	3		
11	ELECTROVOICE 635A/B: Dynamic microphone (Black) with desktop stand, or accepted equivalent as approved by M-DCPS and WLRN.	3		
12	SENNHEISER EW 112-P G3-A, ME2: Camera-Mount Wireless Microphone System with ME-2 Lavalier Mic-A (516-558MHZ). Product substitution not allowed.	3		
13	AUTOCUE Teleprompter System (Part 1): <ul style="list-style-type: none"> • AUTOCUE PSP17: Professional Teleprompter series, 17" with medium wide-angle hood and Pro Plate. Product substitution not allowed. • AUTOCUE Universal Counter Balance Weight for Pro Plate. Product substitution not allowed. 	3 3		
CONTROL ROOM				
14	MARCO VC4424-06: Video Console 6 Bay, 24" Counter Depth, 8 RU 14" Rack Space, with rounded counter corners with Monitor Bridge, Wilsonart 4820-60 / Carbon EV / Oak Trim finish, or accepted equivalent as approved by M-DCPS and WLRN, to include: <ul style="list-style-type: none"> • EC: Equipment Cutout; • CR1419: Sloped Counter Rack Space 8 RU, 14" (RCPs) 3ea. Sony RCP1500 (bay 1); • RR36: Rear Rack Rail 36-³/₄", 21 RU; • RR21: Lower Front Rack Rail 21", 12 RU; • RP1938E: Extended Rear Cover Panel; • RP1938: Vented Rear Cover Panel; • OB1919-06: Overbridge 6 Bay, 19-¹/₄" 11 RU; • RP1919C: Extended Rear Cover Enclosures (Overbridge); and • RP1919: Vented Rear Cover Panel (Overbridge). 	1 1 6 6 2 4 1 2 4		
15	VIDEO DEVICES PIX250i KIT: Kit includes Pix 250i video recorder and XM CADDY PACK. Product substitution not allowed.	2		
16	VIDEO DEVICES PIX-RACK: Rack-mount kit for video recorder. Product substitution not allowed.	2		
17	JVC SR-HD2700US: Blu-ray disc HDD recorder, with rack-mounts. Product substitution not allowed.	1		
18	FOR.A HVS-390HS – E TYPE HD/SD 2M/E SWITCHER: With HVS-392OU 20 button panel, One (1) HD/SD SDI inputs, and Eight (8) HD/SD-SDI. Product substitution not allowed.	1		

19	COMPIX COMPACTCG HD: Single channel HD-SDI/ SD-SDI Broadcast Graphics System. Product substitution not allowed.	1		
20	ACER B246WL: LED 24" Monitor, or accepted equivalent as approved by M-DCPS and WLRN.	2		
21	AUTOCUE Teleprompter System (Part 2): <ul style="list-style-type: none"> • AUTOCUE QPro Software: with ShuttleXpress and hand control. Product substitution not allowed. • ACER AXC-705-UR53: Aspire XC Desktop PC (Intel Core i3, 4 GB RAM, 1 TB HDD, Intel HD Graphics 4400, Windows 10) to run software with VGA out to composite converter (scan convert signal), to be able to run Teleprompter through Triax system, or accepted equivalent as approved by M-DCPS and WLRN. 	1 1		
22	Monitor and Stand: <ul style="list-style-type: none"> • SAMSUNG UN40J6200AFXZA: 40" LED TV/Monitor 1920X1080 and HD-SDI to HDMI converter, or accepted equivalent as approved by M-DCPS and WLRN. • KANTO MTM65PLUS: Mobile TV stand, or accepted equivalent as approved by M-DCPS and WLRN. 	1 1		
23	SONY PVMA170: 17" Professional OLED monitor with Sony Mounting Bracket MB-P17. Product substitution not allowed.	1		
24	MATRIX MSC-HD121L: 12X1 HD-SDI/SDI Video router, or accepted equivalent as approved by M-DCPS and WLRN.	1		
25	AJA GEN10: HD/SD SYNC generator with universal power supply, or accepted equivalent as approved by M-DCPS and WLRN.	1		
26	MACKIE PROFX22v2: Twenty-two (22) Channel Professional mixer with USB port. Product substitution not allowed.	1		
27	JBL CONTROL1 PRO: 2-way Compact Loudspeaker System (Black) with Mounting Bracket, or accepted equivalent as approved by M-DCPS and WLRN.	2		
28	JBL CSA-2120: Two (2) Channel Audio Power Amplifier, rack-mount, or accepted equivalent as approved by M-DCPS and WLRN	2		
29	ESE ES-562U: Combo Master Clock (Black) with options: ESE, N, and P. Product substitution not allowed.	1		

30	TELEX MS-2002: Main Station with power supply and speaker. Product substitution not allowed.	1		
31	TELEX MCP-90-12: 12" Gooseneck Microphone assembly. Product substitution not allowed.	1		
32	LEADER LV7330: Multi-Function waveform/vector scope SDI rasterizer, or accepted equivalent as approved by M-DCPS and WLRN	1		
33	LEADER LR-2481U: Rack-mount kit, or accepted equivalent as approved by M-DCPS and WLRN.	1		
34	APPLE MAC PRO: Computer, 3.7GHz quad-core with 10MB of L3 cache, 12GB (3x4GB) of 1866MHz DDR3 ECC 256GB PC-based flash storage, dual AMD Fire Pro D500 GPUs with 3GB of GDDR5 VRAM. Includes Apple Display, AJA IO4K, Promise 8TB Thunderbolt drive, keyboard, mouse, speakers & CPU rack mount. Product substitution not allowed.	1		
35	MICROBOARDS QD-BD-H4: QD Blu-ray 4 Bay Tower Duplicator, or accepted equivalent as approved by M-DCPS and WLRN.	1		
	DISTRIBUTION ROOM:			
36	INFO-CHANNEL: <ul style="list-style-type: none"> • CAROUSEL 330 TIGHTROPE MEDIA SYSTEM, Carousel 330 hardware with HD-SDI output option. Product substitution not allowed. • CAROUSEL CAR-DSS-WIN7 software. Product substitution not allowed. • CAROUSEL CAR-LIC-PLAYER. Product substitution not allowed. • CRYSTAL IMAGE TECHNOLOGIES RM-F117: 1 RU 17" 1920X1080 wide screen rack-mount monitor/keyboard and mouse, or accepted equivalent as approved by M-DCPS and WLRN. 	1 1 1 1		
37	JVC SR-HD2700US: Blu-Ray discs and HDD recorder, with rack-mounts. Product substitution not allowed.	2		
38	VIDEO DEVICES PIX250i KIT: Kit includes Pix 250i video recorder and XM CADDY PACK. Product substitution not allowed.	1		
39	VIDEO DEVICES PIX-RACK: Rack-mount kit for video recorder. Product substitution not allowed.	1		
40	BLACKMAGIC HDL-SMTVDUO SmartView dual pack color monitors, 2K, or accepted equivalent as approved by M-DCPS and WLRN.	3		

41	SAMSUNG UN24H4000AFXZA: 24" Class LED HDTV, or accepted equivalent as approved by M-DCPS and WLRN.	1		
42	CONTEMPORARY RESEARCH 232-ATSC-4 HDTV tuner/demodulator. Includes HD2-RC remote and power supply. Product substitution not allowed	1		
43	AJA KUMO 1616: Compact SDI router with power supply, or accepted equivalent as approved by M-DCPS and WLRN.	1		
44	AJA KUMO CP: 1 RU Hardware control panel for Kumo router, or accepted equivalent as approved by M-DCPS and WLRN.	1		
45	DRAKE EH244-1002568: QUAD QAM Encoder host. Product substitution not allowed.	1		
46	DRAKE SDI24A-1002516A: HD-SDI Encoder module. Product substitution not allowed.	4		
47	DRAKE 806DM-1003615: Dracom Video demodulator. Product substitution not allowed.	3		
48	DRAKE SDE24A-1002514A: Standard definition dual encoder module Product substitution not allowed.	2		
49	DRAKE DSE-2-PLUS-1002583: Digital Signage 2X Encoder. Product substitution not allowed.	1		
50	MARSHALL AR-AM1: Analog audio monitor, Stereo/Balance with XLR IN/XLR OUT, or accepted equivalent as approved by M-DCPS and WLRN.	1		
51	MARSHALL V-R44P: Quad (four pack) Analog video monitor, rack-mount, or accepted equivalent as approved by M-DCPS and WLRN.	1		
EDITING ROOM 1 AND 2:				
52	APPLE IMAC21.5: 21.5" (diagonal) LED-backlit display, 2.8 GHz quad-core Intel Core i5 processor Turbo Boost up to 3.3GHz, 1TB 5400-rpm hard drive, Magic Keyboard and Magic Mouse, one editing system for each room. Product substitution not allowed.	2		
53	ANTHRO H24BK: 60-inch wide Cart with four (4) 2-3/8" Casters (front two locking), hold up to 150 lbs., Black work surface, with Black metal color finish, one for each room or accepted equivalent as approved by M-DCPS and WLRN.	2		
PROP STORAGE ROOM:				

54	LIBEC LX10 STUDIO: LX head, dual panhandle RT50B Tripod with DL-3B Dolly capacity 35 lbs., or accepted equivalent as approved by M-DCPS and WLRN.	3		
55	SONY HXRMC2500: Shoulder-mount AVCHD camcorder. Product substitution not allowed.	3		
56	LIBEC ALX KIT: ALX Kit with LXH Head /ALX Tripod, Mid-level spreader, RC20 Case. Product substitution not allowed.	3		
57	SANDISK SDSDXN-032G-G46: 32GB Extreme UHS-1 U3 SDHC Memory Card (Class10). Product substitution not allowed.	6		
58	SONY NPF970/B: infoLithium L Series Rechargeable battery (2) pack, 7.2V 6300 mAh. Product substitution not allowed.	3		
59	SONY ECM44B: Electret Condenser Lavalier Microphone. Product substitution not allowed.	3		
60	Arco CS-D40B: Video DR. Bag-40, camera case, or accepted equivalent as approved by M-DCPS and WLRN.	3		
61	VERBATIM BD-R: 25GB 6X with Branded Surface, 50 Disc Spindle 98397, or accepted equivalent as approved by M-DCPS and WLRN.	2		
	GENERAL: LABOR, INSTALLATION AND TRAINING			
62	INSTALLATION, COMMISSIONING and TRAINING: Provide all labor necessary for the installation of the equipment noted above, including all necessary cables, connectors, and jumpers; vented blank panel to cover unused spaces in racks and console; equipment operation and maintenance manuals; Warranty documentation on entire installation; as-built diagrams for complete TV production/distribution system; and operational training for on-site MDCPS staff.			

Signature of Bidder's Authorized Representative

Title

Printed Name:

Date