The following information specifies needs for each classroom at the CNM Main Campus JS Buildings.

The total number of classrooms for PHASE II is 11 (eleven) and are indicated as follows:

- JS-201, JS-202, JS-203, JS-204, JS-211, JS-302, JS-303, JS-303A, JS-306, JS-308, JS-310 (JS-310 will require two (2) projectors)
- JS-303A will not have a podium. Vendor will be required to mount Kramer UTBUS1 Under Table Connectors to the existing tables in this mock courtroom environment for input to Crestron Signal Routing and Control devices. Placement of Crestron Signal Routing and Control devices will be placed in a rack provided by CNM. The Crestron C2NFTBDB QuickMedia Flip Top Media Center will be wall mounted as determined by CNM.
- CNM will provide 12 (twelve) manual screens and 12 (twelve) ceiling tile projector mounts

The following items will need to be purchased and will be the components used for the classroom installs:

**Hitachi CP-WX4021N Data Projector Ceiling mounted and with spare lamp**

- Minimum of 14.5 feet from screen
- Throw distance to be confirmed. Image shall fill the projection screen width

**BMS LCD LOC-IV One (1) Data Projector Ceiling Mount Size = 14.4” x 12.2” x 18.1” (W x D x H)**

- Uses 1.5” pipe
- Weight capacity – 150 lbs. (UL rated)
- Mount is to adjust, without tools, 15° +/- Tilt, Pitch, Roll, and swivel 360°
- Length of pipe to be determined based on field conditions. Video projector shall be mounted with the video projector lens even with the top of the projected image. A keystoned image and/or the use of the video projector’s keystone correction shall not be accepted.

**LCG3 Smart Power Strip (or equivalent) Energy Saving Power Strips with the following features:**

- One master outlet controlling selected other outlets
- Three switchable outlets controlled by master outlet
- Two unswitched outlets that remain “Hot” at all times

**VFI PD3009 Modern Podium to include:**

- Side flip-up shelf and two space painted steel utility shelf
The principle Crestron unit (Crestron MPS-100) will be rack mounted in the available podium (CNM provided rack in JS-303A). The audio will follow the selected source through the Crestron system to the wall mounted speakers.

Crestron Signal Routing and control system. This system includes all the following listed components to achieve full functionality desired in the classroom control and routing system. Components per room include:

Crestron MPS100 Multimedia Presentation System

The Multimedia Presentation System provides and integrates the following principal systems:

- Audio/Video switching
- Audio/Video reinforcement and distribution
- Video interface equipment
- Audio interface equipment
- Ethernet and e-control support
- RoomView and SNMP support
- Room control processor

Crestron QMRX12G QuickMedia Receiver with Audio. The QuickMedia Receiver shall support the following functions:

- Receive RGB and video signals over a single CAT5e type cable
- Shall include one bidirectional RS-232 port for control of the video projector
- Shall include one IR/Serial port
- Compact design allowing mounting next to QM switcher

Crestron C2NFTBDB QuickMedia Flip Top Media Center with Cable Storage Compartment

- The panel has the following features:
- Dimensions
- 5.39 in (13.69 cm) – with lid closed
- 6.75 in (17.14 cm)
- 5.71 in (14.50 cm)
- To be mounted in podium with cut-out provided by vendor/installer
- 10 programmable buttons with LED feedback
- Engraved Button Caps
- Customizable backlit button labels
- Volume control and LED bar graph
- Built-in IR receiver and light sensor
- Power-over-Ethernet compatible
- VGA w/audio cable provided in cable storage compartment for connection of portable laptop
- Vendor to provide VGA cable for connection to document camera through a grommet located above the podium side flip up shelf

Crestron MP-WP180B input wall panels in wall located by power and data at identified teaching wall. Plate includes the following jacks:

- One Crestron Cresnet jack
- One Crestron QuickMedia RJ-45 port

Crestron CRESCAT QMPS Cat 5E Plenum Cable to connect all components

Control System programming: Provide a fully-functional system with all required Crestron control system programming including, but not limited to Crestron RoomView. RoomView programming shall include remote control for Crestron control unit and projector remote management functions.

One (1) Blu-ray video unit – Panasonic DMP-BD77 Smart Network Blu-ray Disc Player or equivalent.

- Must have DVD playback capability

Room Speaker System to include:

- Atlas GD87W Ceiling Speakers (4 – 6 per room based on seating capacity)
- Atlas 818R T Bar Bridge for mounting speakers
- Atlas L9587 Speaker Enclosures
- Atlas PA1001G 100w/70v Amp and 100V single channel Pole mounted Speaker Amplifier
- IEC CAB00218SPLS Plenum Speaker Wire

CNM will provide AC outlet and network ports.

Vendor will install the Crestron MP-WP180 control plate into the structural wall and/or specified floor pocket at the identified teaching area.

The vendor will be responsible for the fully operational installation and CRESTRON component programming of the listed systems and components using all necessary and construction rated cables.
The vendor will also be responsible for the engraving of the button caps located on the C2N-FTB QuickMedia Flip-Top.

The vendor will include all projector mounting poles and the LCG3 Smart Power Strip for the podium as part of the overall install cost.

The vendor will provide all equipment and cabling required to enable these systems. The CNM network and electrical cabling will be the responsibility of CNM. Computer(s) will be supplied by CNM.

The vendor will be responsible for providing a final system design that meets CNM specifications and code requirements and achieves the desired functionality. The selected vendor will be responsible for completed installation. The vendor will test and demonstrate to CNM staff (Audiovisual Services) full system functionality.

The vendor’s response to system or individual component failure is the next business day after notification by CNM of any technical issue. On site response, component replacement or repair is required by end of business the next day.

CNM reserves the right to accept or deny the installed systems based on demonstrated functionality.