

**SECTION 27 41 16.52 – CLASSROOM INSTRUCTIONAL TECHNOLOGY**

Classroom Instructional Technology (CIT) Mission:

CIT serves the University's classroom instructional technology needs through Technical Services area. Technical Services is available to assist Colleges and Departments in assessing classroom technology needs and recommending appropriate solutions to meet the teaching and learning objectives. They then engineer, install, and support instructional technology solutions in classrooms on the Springfield campus. CIT also maintains the Classroom Help Desk providing faculty with a one call solution for reporting problems with classroom instruction technology.

The Classroom Technology Standard is intended to assist Planning, Design and Construction, Campus Construction Team, Consultants, and Contractors with providing the required infrastructure and teaching/learning technology equipment for classrooms and lecture halls. Classroom technology requirements vary depending on use of space, room size/shape, class size, furniture type, intended teaching/learning style and Accessibility.

MSU CIT should be included in design meetings to coordinate space, layout, networking, and engineering requirements. All required infrastructure and equipment should be appropriately included in drawings and/or specifications.

The following Responsibility Matrix is a general guide to determine scope of work for all groups involved in a project. Once CIT requirements and scope are established, a project specific Matrix should be included in the construction documents.

<b>INFRASTRUCTURE AND EQUIPMENT RESPONSIBILITY MATRIX</b>			
ITEM	CONTRACTOR	MSU CIT	MSU NETWORKING & TELECOMMUNICATIONS
<p><b>Projection Screen and Wall Switch</b></p> <p><i>Da-Lite (Coordinate conduit size and quantity with CIT)</i></p>	<p>Provide required framing and/or connection points for screen per manufacturer's requirements, conduit/pathway for electrical/low voltage wiring, data, and electrical power. Install screen and wall switch.</p>	<p>Provide projection screen and wall switch. Provide and pull low voltage wiring and terminate at equipment.</p>	<p>N/A</p>
<p><b>Projector Mount</b></p> <p><i>Chief CMS440 Lightweight Suspended Ceiling Kit for suspended acoustical ceilings. (For ceilings other than suspended, coordinate mounting requirements with CIT)</i></p>	<p>Provide anchor points at building structure for cable supports per manufacturer's instructions. Provide conduit/pathway for electrical/low voltage wiring, data, and junction box with outlet at ceiling kit. Provide one data connection per projector.</p>	<p>Provide and install projector. Provide and pull low voltage wiring and terminate at equipment.</p>	<p>N/A</p>

ITEM	CONTRACTOR	MSU CIT	MSU NETWORKING & TELECOMMUNICATIONS
<p><b>Recessed Wall Box and Door Panel for Flat-screen Television Display.</b></p> <p><i>FSR MODEL PWB-450 (Coordinate power/data requirements, conduit size and quantity with CIT)</i></p>	<p>Provide and install recessed wall box. Provide conduit/pathway for electrical/low voltage wiring, data, and outlet.</p>	<p>N/A</p>	<p>Provide and pull data cabling and terminate.</p>
<p><b>Flat-screen Television Display Wall Mounts</b></p> <p><i>Chief Fusion Mounts: MTM1U, LTM1U, XTM1U (Coordinate model with CIT)</i></p>	<p>Provide blocking for mount, conduit/pathway for electrical/low voltage wiring, electrical power, data, and junction box with outlet. Provide one data connection per television.</p>	<p>Provide television mount, television. Install mount and television. Provide and pull low voltage wiring and terminate.</p>	<p>N/A</p>
<p><b>Ceiling Speakers</b></p> <p><i>(Coordinate location with CIT, show on reflected ceiling plans)</i></p>	<p>Coordinate location with sub-contractors.</p>	<p>Provide and install speakers. Provide and pull low voltage wiring and terminate at equipment.</p>	<p>N/A</p>
<p><b>Ceiling Microphones</b></p> <p><i>(Coordinate location with CIT, show on reflected ceiling plans)</i></p>	<p>Coordinate location with sub-contractors.</p>	<p>Provide and install microphones. Provide and pull low voltage wiring and terminate at equipment.</p>	<p>N/A</p>
<p><b>Lectern Recessed Wall Box</b></p> <p><i>FSR-WB-X2-GNG and FSR WB-X2-CVR-WHT (Coordinate power/data requirements, conduit size and quantity with CIT)</i></p>	<p>Provide and install wall box, cover, conduit/pathway for electrical/low voltage wiring, data, electrical power, and outlets.</p>	<p>Provide and pull low voltage wiring and terminate at equipment.</p>	<p>Provide and pull data cabling to wall box. Coordinate required quantity of data ports required with MSU CIT.</p>
<p><b>Recessed Floor Box</b></p> <p><i>FSR FL-500P-4 Box and FSR FL-500P cover (Coordinate cover type with flooring. Colors to be aluminum or painted. Coordinate power/data requirements, conduit size and quantity with CIT)</i></p>	<p>Provide and install floor box, cover conduit/pathway for electrical/low voltage wiring, data, electrical power, and outlets.</p>	<p>Provide and pull low voltage wiring and terminate at equipment.</p>	<p>Provide and pull data cabling to floor box. Coordinate required quantity of data ports required with MSU CIT.</p>

ITEM	CONTRACTOR	MSU CIT	MSU NETWORKING & TELECOMMUNICATIONS
<p><b>Legrand Wattstopper</b></p> <p><i>Coordinate with CIT for equipment and control requirements)</i></p>	<p>Provide and install Wattstopper system. Provide LMDI-100-U Serial Data Interface to MSU CIT for integration into equipment rack. Coordinate with all required trades.</p>	<p>Provide and pull low voltage wiring and terminate as required.</p>	<p>Provide and pull data cabline and terminate as required.</p>
<p><b>Recessed Power Module in Tabletops</b></p> <p><i>(Coordinate with MSU CIT)</i></p> <p><i>Extron Cable Cubby 222US 60-1972-02 Blank Plate 70-315-11 USB Powerplate 311 AC AAP 60-1938-02 202 AAP Bracket 70-1043-01 or Legrand RDZC</i></p>	<p>Install module(s)</p>	<p>Provide module(s)</p>	<p>Provide and pull data cabling as required.</p>

END OF SECTION 27 41 16.52