Contractor shall list all addenda by number on the bid form to ensure conformity in the bid.

Drawings, Specifications and/or Proposals are herein amended, expanded and/or modified, as hereinafter described, and become a part of the Contract Documents with the same force and effect as if incorporated, herein, originally. Any contrary provisions contained, or referred to, in Drawings and/or Specifications, shall remain applicable unless overridden by this Addendum. Revised or contrary provisions herein shall not affect any other part of the Contract Documents and any deletions, additions, substitutions and/or revisions mentioned, shall include all labor, materials, methods, modifications, etc. required for complete performance of the work.

CONTRACT DOCUMENT MODIFICATIONS AND CLARIFICATIONS:

1. There is not a true freight elevator available to the 5th floor. We do have a larger passenger elevator that can be locked-out for contractor use.
2. Please see notes on wall furring on sheets A-101 and A-102. Only the east wall receives 1-1/2 inch furring.
3. Building access will be limited during construction and in particular after June 19th. Access will be by the East, West and South door on the first floor. The existing loading dock on the north side of the building will be closed starting June 19th.
4. Contractor is to include the purchase and installation of Audio Visual equipment as detailed in “Chemical Sciences and Engineering – Chemistry Lab 503 A/V scope of work”, Dated April 17, 2017 (attached). Please provide a break out cost for the A/V equipment as listed. **A New Bid Summary Sheet is attached.**
5. The attendees of the 4/25/17 walk-through is attached for your reference.

End of Addendum
Contractor Scope of Work:

All final equipment, network and power locations and substitutions to be coordinated with MTU-IT staff
Review Chem Sci 504 for information of a similar installation

Networking –
- Install 4 port network location at middle TV location, outlet height
- Install 4 port network location in cabinet on side wall.
- Install, terminate, and test. Materials by contractor per MTU spec-see attachment
- Save and protect the two existing network locations/equipment above ceiling, contractor to move network wireless access devices to below the new ceiling.
- Save and protect existing wireless access points

Power -
- Install power at 3 TV locations. 2 single duplexes at each location (one dedicated circuit)
- Install power in cabinet on side wall, 2 single duplexes (can be shared with the 3 TV outlets)
- Install 2 gang power outlet below center TV (can be shared on general circuit)

Lighting –
- Switch the light fixtures nearest the TVs separately from the rest of the room-coordinate with MTU-IT Staff

AV Equipment Removal and Installation –
- Remove shelf, wire mold and existing video cabling located in the back of the room.
- Install three TV wall mounts and TVs
- Install four JBL ceiling speakers in ceiling, set taps to 15watt/70volt
- Install HDMI Distribution Amplifier behind TV 1
- Install HDMI Distribution Amplifier behind TV 2
- See attached floor plan for general locations
- Finalize installation details of equipment with MTU staff

Low-Voltage AV, control, and speaker Cables –
- Install double gang caddy behind each TV (3)
- Install double gang caddy ring above ceiling at each TV location (3)
- Install one gang caddy ring in cabinet on side wall.
- Provide a three gang caddy ring with triple decora plate under TV 2 (for control of 3 TVs).
- Install single gang caddy ring and pathways with pull string from single gang caddy ring at bottom outlet height (at middle TV location) to a single gang caddy ring behind middle TV location (for HDMI wall plate).
- Run 1 control wire from triple gang control under TV #2 to each of the TVs (3 wires).
- Run speaker wire from cabinet caddy ring to first speaker. Daisy chain remaining, terminate wire at speakers.
- Run audio wire from TV #2 to cabinet on side wall.
- Run HDMI cable from wall plate to HDMI DA behind TV 2.
- Run HDMI cable from side wall cabinet to DA behind TV 1.
- Run HDMI cables from HDMI DA at TV 2 to TV 1 and TV 3.
- Run HDMI cables from HDMI DA at TV 1 to TV 2 and TV 3.
- See attached cable run plan
Hardware:

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<th>Item</th>
<th>Detail</th>
<th>Part #</th>
<th>Qty</th>
<th>Vendor</th>
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<td>Samsung 75&quot; TV</td>
<td>Smart 4K UHD, 4xHDMI, Audio Out, RS232C</td>
<td>UN75JU6500FXZA</td>
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<td>Ingram Micro/CDW</td>
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<td>UN55KU6290FXZA</td>
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<td>Ingram Micro/CDW</td>
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<td>Wall button control panel for TVs</td>
<td>PXE-DCM+</td>
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<td>AVI</td>
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<td>Amplifier - 60W 70V</td>
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<td>JBL 26CT Circular Ceiling Mounted Speakers</td>
<td>JBL Control 26CT</td>
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<td>Amazon</td>
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Possible Vendors:
Ingram Micro: ingrammicro.com, 800-456-8000  
CDW: CDW.com, 800-800-4239  
AVI Systems: Sales Representative: Keith Ehler, keith.ehler@avisystems.com, (262)207-1356  
B&H: bhhphotovideo.com, 800-831-2434  
Amazon: Amazon.com
All are TE/Commscope parts

4-Port network jack installation (Standard in room network installation)

White Cat-6 jack 1375055-3
Red Cat-6 jack 1375055-7
Black Cat-6 jack 1375055-2
Yellow Cat-6 jack 1375055-8

Faceplate
4-port double gang 83935-1 (many time out of stock)
6-port double gang 83936-1 (would require 2-each blank inserts 1116412-1)
4-port single gang 2111011-1

Cable
TE620R-GYRB (Grey Riser Rated)
Or
TE620P-BLRB (Blue Plenum Rated)-Required where cable is installed in a plenum ceiling.

Patch Panel
48-port Patch Panel 1375292-1 (need one of these for every 12 4-port network locations.)

Each data location we would require 8-jacks (2-white, 2-red, 2-black, and 2-yellow). One each in the Telcom closet, and one each at the end point.

2-Port network jack installation (Standard above ceiling or at ceiling height)

White Cat-6 jack 1375055-3
Black Cat-6 jack 1375055-2

Faceplate
2-port single gang 2111022-

Cable
TE620R-GYRB (Grey Riser Rated)
Or
TE620P-BLRB (Blue Plenum Rated)-Required where cable is installed in a plenum ceiling.

Patch Panel
24-port Patch Panel 1933307-1 (need one of these for every 12 2-port network locations.)

Each 2-port data location we would require 4-jacks (2-white and 2-black). One each in the telcom closet and one each at the end point.

Mod Box as needed
Not all items to scale
Ms. Penny Foetisch
Facilities Management
Michigan Technological University
1400 Townsend Drive
Houghton, MI 49931-1295

The Project involves the complete remodel of approximately 1,995 SF of space within the University Chemical Science Building. Work includes demolition of existing cabinets, fume hoods, ductwork, electrical, and other miscellaneous items. New work includes new ceilings, new ductwork, new lights and electrical power, new floor finishes, painting, and coordination with separate vendor for installation of new cabinets, countertops and fume hoods.

Having carefully read the specifications and drawings dated April 18, 2017 for Michigan Technological University Chemistry Undergrad Labs Phase 2 Project, the undersigned agrees to perform the work in accordance with the Contract Documents and the proposed schedule for Project No. 19-17-04.

Firm Name:__________________________________________________________________________

Our price to furnish A/V equipment detailed in Addendum 1 is:

$ __________________________________________ (Bid price in numbers and words)

Our lump sum base bid price to furnish and install all materials (including A/V equipment) complete is:

$ __________________________________________ (Bid price in numbers and words)

Bidder acknowledges receipt of the following addenda:

Addendum No. ___________________________ Dated: ___________________________

Addendum No. ___________________________ Dated: ___________________________

Addendum No. ___________________________ Dated: ___________________________

Provide Alternate Price for Alternate #1 indicated on the Plumbing Drawings: Provide Alternate price to raise existing piping as indicated on the drawings:

$ __________________

Alternate price in words___________________________

The undersigned has used the proposal of the following subcontractors to complete his bid and agrees to employ the firms listed below for the work:

Mechanical:__________________________________________________________________________

19-17-04 Chemistry Undergrad Labs Phase 2  00 42 00 - 1  4/18/2017
BID PROPOSAL FORM

Electrical: ________________________________________________

Other __________________________________________________

Contractor: ________________________________________________

Name: ___________________________________________ Date: __________

(Signature)

Name: ___________________________________________

(Print)

Title: ________________________________________________

Contact Information (Phone and email): ____________________________

Sealed proposals will be received at Facilities Management, Bldg. 44, on the waterfront of Michigan Technological University, Houghton, Michigan until 2:00 PM on May 9, 2017.
<table>
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<tr>
<th>Name</th>
<th>Company Name</th>
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<tbody>
<tr>
<td>Bill Casagrande</td>
<td>F2 Industrial</td>
<td><a href="mailto:bcasagrande@f2.com">bcasagrande@f2.com</a></td>
<td>906-365-2100</td>
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<tr>
<td>Dale Peterson</td>
<td>Michigan Coast Structural</td>
<td><a href="mailto:dpeterson@mcstructural.com">dpeterson@mcstructural.com</a></td>
<td>370-246-3706</td>
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<td>John Carman</td>
<td>Michigan Coast LLC</td>
<td><a href="mailto:jcarman@mcstructural.com">jcarman@mcstructural.com</a></td>
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<td>Andrew Kempf</td>
<td>Mule</td>
<td><a href="mailto:amkemper@muleusa.com">amkemper@muleusa.com</a></td>
<td>906-482-3000</td>
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<td>Nick Simpsonson</td>
<td>Enco</td>
<td><a href="mailto:nick@encolectric.com">nick@encolectric.com</a></td>
<td>251-2140</td>
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<td>Ray Simonsin</td>
<td>BC Media</td>
<td>ramsongrcmechanical.us</td>
<td>412-0220</td>
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<td>Sam Staelke</td>
<td>Robert E Johnson Construction</td>
<td><a href="mailto:sumrecont@gmail.com">sumrecont@gmail.com</a></td>
<td>906-296-0289</td>
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<tr>
<td>Bill Luukkanen</td>
<td>Portage Lake Construction</td>
<td><a href="mailto:bill@portagelakeconstruction.com">bill@portagelakeconstruction.com</a></td>
<td>906-369-2125</td>
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Date: 4/25/2017
Time: 4:00 pm
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<td>Jared Rosslund</td>
<td>Bay Electric</td>
<td><a href="mailto:jared@bayelectricinc.com">jared@bayelectricinc.com</a></td>
<td>370-2590</td>
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<tr>
<td>Maria Kammeski</td>
<td>KPL</td>
<td><a href="mailto:kammeskimjpowerlite@gmail.com">kammeskimjpowerlite@gmail.com</a></td>
<td>370-8020</td>
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<td>Andrew Lantry</td>
<td>Latti Contracting</td>
<td>lehtico <a href="mailto:Trading@gmail.com">Trading@gmail.com</a></td>
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<td>Keith Bostian</td>
<td>A1 Drywall</td>
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<td>Byron Ruonavuo</td>
<td>Byron Heat/Air Coil</td>
<td><a href="mailto:byron@byronheating.com">byron@byronheating.com</a></td>
<td>370-4470</td>
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<tr>
<td>Joe Johnson</td>
<td>ESJ</td>
<td><a href="mailto:joesjohnson09x@gmail.com">joesjohnson09x@gmail.com</a></td>
<td>269-0289</td>
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