ADD ALTERNATE NO. 2: NEW DUST COLLECTION SYSTEM WITH THREE DOWNDRAFT TABLES AND TWO BAND SAWS. NEW AREA FROM WOODWORKING AREA.

ADD ALTERNATE NO. 1: RELOCATE WAX HOOD AS INDICATED ON DRAWINGS. NEW PARTITION WALL TO SEPARATE LAB

NEW PAINT BOOTH

SITE

XXX XXX

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SITE

XXX XXX
ENLARGED REFLECTED CEILING PLAN

ENLARGED REFLECTED CEILING DEMOLITION PLAN

RELOCATED DIFFUSER SEE M1-01
PATCH AND REPAIR CEILING GRID AND TILES AT NEW WALL
EXISTING LIGHTING TO REMAIN SEE ELEC DWGS FOR DETAILS.
EXISTING CEILING TILES AND PORTION OF GRID FOR CONSTRUCTION OF NEW WALL. SAVE AND PROTECT TILES FOR RE-INSTALLATION.
EXISTING CEILING TILES AND GRID TO REMAIN.
REMOVE EXISTING DIFFUSER SAVE AND PROTECT FOR RE-INSTALLATION SEE M1-01.
REMOVE EXISTING CEILING TILES AND PORTION OF GRID FOR CONSTRUCTION OF NEW WALL. SAVE AND PROTECT TILES FOR RE-INSTALLATION.

NORR
An Ingenium Group Company
150 W. Jefferson Ave. Suite1300
Detroit, Michigan, 48226 USA
www.norr.com
1. USE LIQUID TIGHT METAL CONDUIT FOR ALL CONNECTIONS TO MOTORS AND 3. Before the installation of any item begins, the electrical contractor shall
2. USE WATERTIGHT JOINTS WITH BURIED AND CONCRETE ENCASED CONDUIT. B. ALL CONDUITS SHALL CONTAIN A CODE-SIZED GROUND WIRE SIZED PER NEC IN
4. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, PLAN REVIEWS AND 5. USE CAST BOXES, ZINC-CADMIUM FINISH MALLEABLE IRON, FOR EXPOSED
5. SUPPORT ALL BOXES TO MAINTAIN PROPER ALIGNMENT AND RIGIDITY.
6. USEzew TIGHT METAL CONDUIT FOR ALL CONNECTIONS TO MOTORS AND 7. SUPPORT RUNS OF CONDUIT AS DETAILED IN THE APPROPRIATE TABLE OF THE
8. ELECTRICAL CONTRACTOR SHALL VERIFY WITH OTHER TRADES ALL ELECTRICAL
9. THE ARCHITECT TO PERMIT THE COMPLETION OF THE ARCHITECTURAL WORK IN ACCORDANCE
10. THE CONDITION BEFORE SUCH DAMAGE.
11. COMPLETE INSTALLATION OF ALL ELECTRICALLY OPERATED EQUIPMENT LISTED IN THE
12. PROVIDE FIRE STOP IN ALL OPENINGS CREATED THROUGH FIRE-RATED WALLS,
13. PROVIDE RELAY WIRING DURING THE ERECTION OF FINISH BEAMS, COLUMNS, PILASTERS, WALLS OR OTHER STRUCTURAL OR
14. EMBRACE ALL NECESSARY COSTS AND CHARGES OF INSTALLATION TO PREVENT EXCESSIVE VOLTAGE DROP. BRANCH
15. WIRE SIZES SHALL BE BASED ON THE 60 DEGREES C. AMPACITIES FOR WIRE SIZES
16. CARLON PVC TYPE 40 HEAVY WALL CONDUIT WITH GROUND WIRE MAY BE
17. PVC 40 CONDUIT SHALL NOT BE RUN IN OR ABOVE FLOOR SLAB. PVC
18. OTHER EQUIPMENT SUBJECT TO VIBRATION AND IN AREAS SUBJECT TO
19. McGRUER AV
20. WAYNE STATE UNIVERSITY
21. 762mmx1067mm (rounded)
22. DUPLEX GROUNDING RECEPTACLE, NEMA 5-20R
23. D. ALL ELECTRICAL EQUIPMENT SHALL BEAR THE UNDERWRITERS LABORATORIES
24. B. THE INSTALLER SHALL IDENTIFY RACEWAYS AND CABLES WITH COLOR BANDING AS FOLLOWS:
25. A. ALL ELECTRICAL WORK SHALL BE IN FULL ACCORDANCE WITH ALL CODES, RULES AND REGULATIONS
26. INSTALLATION SHALL BE IN FULL ACCORDANCE WITH ALL CODES, RULES AND REGULATIONS
27. INSTALLATION SHALL BE IN FULL ACCORDANCE WITH ALL CODES, RULES AND REGULATIONS
28. McGRUER AV
29. WAYNE STATE UNIVERSITY
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32. ALL ELECTRICAL EQUIPMENT SHALL BEAR THE UNDERWRITERS LABORATORIES
33. THE COMMISSIONER OF THE CITY OF DETROIT, 1 E. CANAL, DETROIT, MI. 48202
34. MUTUAL ACCEPTANCE OF THE WORK WILL BE ACQUIRED KNOWLEDGE AND SKILL. THE
35. MUTUAL ACCEPTANCE OF THE WORK WILL BE ACQUIRED KNOWLEDGE AND SKILL. THE
36. MUTUAL ACCEPTANCE OF THE WORK WILL BE ACQUIRED KNOWLEDGE AND SKILL. THE
37. AGREEABLE TO THE BIDDER, CONTRACTOR AND ALL CONCERNED.
38. AGREEMENT, BIDDER, CONTRACTOR AND ALL CONCERNED.
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48. AGREEMENT, BIDDER, CONTRACTOR AND ALL CONCERNED.
49. AGREEMENT, BIDDER, CONTRACTOR AND ALL CONCERNED.
50. AGREEMENT, BIDDER, CONTRACTOR AND ALL CONCERNED.
BASEMENT FLOOR PLAN - ELECTRICAL DEMOLITION

Scale: 1/4" = 1'-0"

BASEMENT FLOOR PLAN - ELECTRICAL DEMOLITION

1. REMOVE WALL SPEAKER, BACKBOX AND ASSOCIATED CONDUIT AND WIRE BACK TO SOURCE.
2. REMOVE TELECOMMUNICATION OUTLET, BACKBOX AND ASSOCIATED CONDUIT AND WIRE BACK TO SOURCE.
3. REMOVE MOTORIZED PROJECTION SCREEN, CONTROLS AND ASSOCIATED CONDUIT AND WIRE BACK TO SOURCE.
4. REMOVE WALL MOUNTED RACK AND ASSOCIATED EQUIPMENT, AND ASSOCIATED LOW VOLTAGE CONDUIT AND WIRE BACK TO SOURCE. EXISTING POWER SHALL REMAIN IN PLACE.
5. REMOVE EXISTING CEILING MOUNTED SPEAKERS AND ASSOCIATED CONDUIT AND WIRE BACK TO SOURCE.
6. REMOVE EXISTING WALL MOUNTED PROJECTOR, BACKBOX AND ASSOCIATED CONDUIT AND WIRE BACK TO SOURCE.
7. REMOVE FLOOR MOUNTED RACK AND ASSOCIATED EQUIPMENT, AND ASSOCIATED LOW VOLTAGE CONDUIT AND WIRE BACK TO SOURCE. EXISTING POWER SHALL REMAIN IN PLACE.
8. REMOVE DIGITAL ANNOUNCEMENT BOARD, BACKBOX AND ASSOCIATED CONDUIT AND WIRE BACK TO SOURCE.
9. REMOVE VOLUME CONTROL, BACKBOX AND ASSOCIATED CONDUIT AND WIRE BACK TO SOURCE.
10. EXISTING LIGHT TO REMAIN. DISCONNECT FROM EXISTING ROOM ROOM 020 SWITCHED CIRCUITING.
11. EXISTING LIGHT TO REMAIN. RE-WIRE TO REMAIN ON ROOM 020 SWITCHED CIRCUITING.
FIRST FLOOR PLAN - ELECTRICAL DEMOLITION

- Remove Wall Speaker, Backbox and associated conduit and wire back to source.
- Remove telecommunication outlet, backbox and associated conduit and wire back to source.
- Remove motorized projection screen, controls and associated conduit and wire back to source.
- Remove wall mounted rack and associated equipment, and associated low voltage conduit and wire back to source. Existing power shall remain in place.
- Remove existing ceiling mounted speakers and associated conduit and wire back to source.
- Remove existing wall mounted projector, backbox and associated conduit and wire back to source.
- Remove floor mounted rack and associated equipment, and associated low voltage conduit and wire back to source. Existing power shall remain in place.
- Remove digital announcement board, backbox and associated conduit and wire back to source.
- Remove volume control, backbox and associated conduit and wire back to source.
- Existing light to remain. Disconnect from existing room 020 switched circuiting.
- Existing light to remain. Re-wire to remain on room 020 switched circuiting.
SECOND FLOOR PLAN - ELECTRICAL DEMOLITION

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**Removal Key Notes:**
- **REMOVE WALL SPEAKER, BACKBOX AND ASSOCIATED CONDUIT AND WIRE BACK TO SOURCE.**
- **REMOVE TELECOMMUNICATION OUTLET, BACKBOX AND ASSOCIATED CONDUIT AND WIRE BACK TO SOURCE.**
- **REMOVE MOTORIZED PROJECTION SCREEN, CONTROLS AND ASSOCIATED CONDUIT AND WIRE BACK TO SOURCE.**
- **REMOVE WALL MOUNTED RACK AND ASSOCIATED EQUIPMENT, AND ASSOCIATED LOW VOLTAGE CONDUIT AND WIRE BACK TO SOURCE. EXISTING POWER SHALL REMAIN IN PLACE.**
- **REMOVE EXISTING CEILING MOUNTED SPEAKERS AND ASSOCIATED CONDUIT AND WIRE BACK TO SOURCE.**
- **REMOVE EXISTING WALL MOUNTED PROJECTOR, BACKBOX AND ASSOCIATED CONDUIT AND WIRE BACK TO SOURCE.**
- **REMOVE FLOOR MOUNTED RACK AND ASSOCIATED EQUIPMENT, AND ASSOCIATED LOW VOLTAGE CONDUIT AND WIRE BACK TO SOURCE. EXISTING POWER SHALL REMAIN IN PLACE.**
- **REMOVE DIGITAL ANNOUNCEMENT BOARD, BACKBOX AND ASSOCIATED CONDUIT AND WIRE BACK TO SOURCE.**
- **REMOVE VOLUME CONTROL, BACKBOX AND ASSOCIATED CONDUIT AND WIRE BACK TO SOURCE.**
- **EXISTING LIGHT TO REMAIN. DISCONNECT FROM EXISTING ROOM ROOM 020 SWITCHED CIRCUITING.**
- **EXISTING LIGHT TO REMAIN. RE-WIRE TO REMAIN ON ROOM 020 SWITCHED CIRCUITING.**
EXISTING LP-BA BA-30 BA-31
INDICATES EXISTING (TYPICAL) EXISTING CIRCUIT NUMBERS BASED ON AS-BUILT DRAWINGS VERIFY IN FIELD

AIR CONDITIONER, AC-1. ASSOCIATED CONDENSER, CU-1, LOCATED ON ROOF
MOUNT NEW WIREWAYS AT BASE OF WALL TO MATCH ELEVATIONS OF EXISTING WIREWAYS

BASEMENT FLOOR PLAN - ELECTRICAL NEW WORK

NOTE: CONDUITS SHALL BE ROUTED ABOVE CEILINGS AND RECESSED WITHIN WALLS WITHIN FINISHED SPACES. ATTAIN OWNER'S APPROVAL PRIOR TO SURFACE MOUNTING CONDUIT.
INDICATES EXISTING (TYPICAL) EXISTING CIRCUIT NUMBERS BASED ON AS-BUILT DRAWINGS VERIFY IN FIELD
EXISTING LP-1B
EXISTING LP-1A

TIE FLOOR BOX OUTLET TO CLOSEST EXISTING RECEPTACLE CIRCUIT AS SHOWN (TYPICAL)

TIE PLUG STRIP OUTLET TO CLOSEST EXISTING RECEPTACLE CIRCUIT (TYPICAL)

MOUNT NEW WIREWAYS AT BASE OF WALL TO MATCH ELEVATIONS OF EXISTING WIREWAYS

NOTE: CONDUITS SHALL BE ROUTED ABOVE CEILINGS AND RECESSED WITHIN WALLS WITHIN FINISHED SPACES. ATTAIN OWNER'S APPROVAL PRIOR TO SURFACE MOUNTING CONDUIT.
2 GANG JUNCTION BOX MOUNTED AT 48" AFF FOR AUDIO/VISUAL CONTROLS. SURFACE NON-METALIC 2-CHANNEL RACEWAY, SIMILAR TO WIREMOLD 5000 SERIES W/ BLACK FINISH. JUNCTION BOX MOUNTED AT 72" AFF FOR WALL MOUNTED SPEAKER. 8" POKE-THRU WITH 2-20A DUPLEX AND 3-A/V COMPARTMENTS, SIMILAR TO WIREMOLD 8AT. REPLACE EXISTING BROKEN SURFACE RACEWAY FACEPLATES AS REQUIRED. 30A-2P NEMA 3R DISCONNECT ON ROOF FOR CU-1. RUN CIRCUIT WITH REFRIGERATION PIPING DOWN TO AC-1 IN BASEMENT. EXISTING LIGHT FIXTURES TO BE RE-SWITCHED AND CONNECTED BACK TO EXISTING CIRCUIT FOR AREA.

NOTE:
CONDUITS SHALL BE ROUTED ABOVE CEILINGS AND RECESSED WITHIN WALLS WITHIN FINISHED SPACES. ATTAIN OWNER'S APPROVAL PRIOR TO SURFACE MOUNTING CONDUIT.
## AV Equipment Schedule

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Location</th>
<th>Mounting Height</th>
<th>Equipment Type</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>IN WALL SPEAKER</td>
<td>TGH, TJH</td>
<td>6'-0&quot; AFF</td>
<td>102</td>
<td>MJ-10</td>
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<tr>
<td>2</td>
<td>IN WALL SPEAKER</td>
<td>TGH, TJH</td>
<td>6'-0&quot; AFF</td>
<td>102</td>
<td>MJ-11</td>
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<tr>
<td>3</td>
<td>IN WALL SPEAKER</td>
<td>TGH, TJH</td>
<td>6'-0&quot; AFF</td>
<td>102</td>
<td>MJ-12</td>
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<td>6'-0&quot; AFF</td>
<td>102</td>
<td>MJ-13</td>
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<td>6'-0&quot; AFF</td>
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<td>MJ-14</td>
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<td>TGH, TJH</td>
<td>6'-0&quot; AFF</td>
<td>102</td>
<td>MJ-15</td>
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<tr>
<td>7</td>
<td>IN WALL SPEAKER</td>
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<td>MJ-17</td>
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<td>9</td>
<td>IN WALL SPEAKER</td>
<td>TGH, TJH</td>
<td>6'-0&quot; AFF</td>
<td>102</td>
<td>MJ-18</td>
</tr>
</tbody>
</table>

1. All mounting heights are to the bottom of the box.

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KEYED NOTES

EXISTING WALL SPEAKERS AND ALL ASSOCIATED WIRING TO BE REMOVED. SPEAKERS TO BE TURNED OVER TO OWNER. PATCH/REPAIR AND PAINT WALL AS REQUIRED.

REMOVE EXISTING AV PLATE, BOX, AND ASSOCIATED WIRING. PATCH/REPAIR AND PAINT WALL AS REQUIRED.

ALL DATA CONNECTIONS TO REMAIN.

EXISTING WALL MOUNTED PROJECTION SCREEN AND HIGH VOLTAGE CONTROL TO BE REMOVED. EQUIPMENT TO BE TURNED OVER TO OWNER. PATCH/REPAIR AND PAINT WALL AS REQUIRED.

EXISTING WALL MOUNTED PROJECTION SCREEN AND HIGH VOLTAGE CONTROL TO REMAIN.

EXISTING WALL RACK, EQUIPMENT IN RACK, AND ASSOCIATED WIRING TO BE REMOVED. RACKS AND EQUIPMENT TO BE TURNED OVER TO OWNER. PATCH/REPAIR AND PAINT WALL AS REQUIRED.

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Acoustics By Design, Inc.
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Consultants in Acoustics, Design, Inc.
and Technical Systems

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