CLASSROOM INTERIOR UPGRADES
MONTANA STATE UNIVERSITY
ADDRESS: LINFIELD HALL, ROOM 301, BOZEMAN, MT  59717

DESCRIPTION:
THE EXISTING CLASSROOM IS TO BE UPDATED. THIS WILL INCLUDE NEW CEILINGS, SOFFITS, WALL FINISHES, LIGHTING, FLOORING AND FURNITURE.

SUMMARY OF WORK

ALTERNATE: LINFIELD 301

ALTERNATE FOR PPA19-0136B IS ROOM LINFIELD 301 IN ITS ENTIRETY. DO NOT INCLUDE WORK FOR LINFIELD 301 IN BASEBID.

LINFIELD HALL LEVEL 3 - KEY MAP

PROJECT LOCATION

ALTERNATE FOR PPA19-0136B IS ROOM LINFIELD 301 IN ITS ENTIRETY. DO NOT INCLUDE WORK FOR LINFIELD 301 IN BASEBID.

ADD ALTERNATES INCLUDED IN PPA #19-0136B

1. LINFIELD 301 - THE EXISTING CLASSROOM IS TO BE UPDATED. DO NOT INCLUDE WORK FOR LINFIELD 301 IN BASEBID.

2. CATCARD - DOORS FOR 210 & 212 TO RECEIVE ALL NECESSARY WORK FOR CATCARD INSTALLATION. SEE SPECS & ELECTRICAL.

3. HALLWAY DISPLAY - HALLWAY DISPLAY CASEWORK LOCATED IN HALLWAY BETWEEN 210 & 214 TO BE ALTERNATE. SEE SPECS & DRAWINGS FOR ADDITIONAL INFORMATION.
ALTERNATE: LINFIELD 301

ALTERNATE FOR PPA19-0136B IS ROOM LINFIELD 301 IN ITS ENTIRETY. DO NOT INCLUDE WORK FOR LINFIELD 301 IN BASEBID.
ALTERNATE: LINFIELD 301

ALTERNATE FOR PPA19-0136B IS ROOM LINFIELD 301 IN ITS ENTIRETY. DO NOT INCLUDE WORK FOR LINFIELD 301 IN BASED.
REPLICATE THIS TRIM FOR SOUTH WINDOW, SEE DETAIL

EXISTING PICTURE RAIL

TYP. @ ALL ENDS OF CHAIR RAIL WHERE ABUTTING (E) TRIM, STOP CHAIR RAIL 1" SHORT OF TRIM

1/2" SOLID SURFACE MATERIAL CONT. SEALANT JT., COLOR MATCH TO SOLID SURF. MTL.

1/2" SOLID SURFACE MATERIAL (E) WALL CONT. SEALANT JT., COLOR MATCH TO SOLID SURF. MTL.

SQUARE EDGE, SLIGHTLY EASED CONT. SEALANT JT., COLOR MATCH TO SOLID SURF. MTL.

FULL BED ADHESIVE

ALTERNATE: LINFEILD 301

ALTERNATE FOR PPA19-0136B IS ROOM LINFIELD 301 IN ITS ENTIRETY. DO NOT INCLUDE WORK FOR LINFIELD 301 IN BASEBID.
### Furniture Schedule

<table>
<thead>
<tr>
<th>Image Type</th>
<th>Mark Type</th>
<th>Count</th>
<th>Description</th>
<th>Manufacturer</th>
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<td>Lectern</td>
<td>drafted</td>
<td>1</td>
<td>LECTURN N.I.C FOR REFERENCE ONLY</td>
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<tr>
<td>C-3 Chair</td>
<td>Stack</td>
<td>22</td>
<td>Doni™ Task Armless Stool - Solid Color, Poly Seat/Back</td>
<td>KI, Inc.</td>
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<td>KI, Inc.</td>
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<td>T-4 Table</td>
<td>Fixed</td>
<td>11</td>
<td>Pirouette Fixed Rectangular Table - 18&quot;D x 60&quot;W x 29&quot;H, 64E Edge, No Modesty Panel, Casters</td>
<td>KI, Inc.</td>
<td>SEE FURNITURE SPREADSHEET FOR MOST CURRENT FURNITURE DETAILS</td>
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<td>Fixed</td>
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<td>KI, Inc.</td>
<td>SEE FURNITURE SPREADSHEET FOR MOST CURRENT FURNITURE DETAILS</td>
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<td>Fixed</td>
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<td>KI, Inc.</td>
<td>SEE FURNITURE SPREADSHEET FOR MOST CURRENT FURNITURE DETAILS</td>
</tr>
</tbody>
</table>

**Grand total:** 106
1. Field verify final location. Coordinate with podium and MSU AV.

2. Paint vertical wall channel to match wall color.

3. Coordinate installation with MSU so that MSU AV can run the required AV cabling.

4. Coordinate installation with MSU so that MSU AV can run the required AV cabling.

5. Ensure required bend radius for data cabling is allowed. Coordinate area of track, and install corner sweep properly to protect associated cabling throughout construction.

6. Provide surface mounted receptacle with series V700 Wiremold, OAE. See architectural plans for mounting heights of raceway and receptacle.

7. General electrical notes:
   - Electric circuits remain. Receptacles as required.
   - Replacement existing noted device with new device and coverplate, vertically from ceiling above.
   - Remove existing equipment and its circuit back to electrical panel into room for reuse.
   - Extend to new receptacles.
   - New electrical devices and associated wiring coordinate with architect.
   - Electrical contractor shall provide a test of all receptacles and associated wiring to ensure built circuiting.
   - Electrical contractor shall provide a test of all receptacles and associated wiring to ensure built circuiting.
   - Provide surface mounted receptacle with series V700 Wiremold, OAE. See architectural plans for mounting heights of raceway and receptacle.

8. General notes:
   - Coordinate installation with MSU so that MSU AV can run the required AV cabling.
   - Provide surface mounted receptacle with series V700 Wiremold, OAE. See architectural plans for mounting heights of raceway and receptacle.
   - Ensure required bend radius for data cabling is allowed. Coordinate area of track, and install corner sweep properly to protect associated cabling throughout construction.
   - Coordinate installation with MSU so that MSU AV can run the required AV cabling.
   - General electrical notes:
     - Electric circuits remain. Receptacles as required.
     - Replacement existing noted device with new device and coverplate, vertically from ceiling above.
     - Remove existing equipment and its circuit back to electrical panel into room for reuse.
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     - New electrical devices and associated wiring coordinate with architect.
     - Electrical contractor shall provide a test of all receptacles and associated wiring to ensure built circuiting.
     - Electrical contractor shall provide a test of all receptacles and associated wiring to ensure built circuiting.
     - Provide surface mounted receptacle with series V700 Wiremold, OAE. See architectural plans for mounting heights of raceway and receptacle.
LINFIELD 301 - LIGHTING DEMOLITION PLAN

LINFIELD 301 - LIGHTING RENOVATION PLAN

LINFIELD 301 LIGHTING CONTROL DIAGRAM

KEY NOTES:
1. All new lighting active space shall be operated to existing ceiling fixture. Removal of existing fixture, wiring, and lighting control panel will be required.
2. No new lighting control panel shall be required.
3. Demolish all existing switching within the space.
4. Provide wires to existing panel to lighting control switches.
5. Provide covered receptacle for ceiling fan control. See detail.
6. Provide new ceiling fan wiring and retain for use.

GENERAL ELECTRICAL NOTES

1. Refer to electrical drawings for the location of all piping, conduits, and other items than are depicted in these documents. The contractor is responsible for all cutting of floors, walls, and doors to maintain and required work is performed. Connections between all electrical equipment must be provided by the manufacturer of the equipment.
2. It is absolutely necessary for all trades involved to coordinate with each other and verify that there are no conflicts in installation.
3. All electrical devices and lights shown in dashed black and white are included. Lights shown in red are not included.
4. Electrical contractor is responsible for all cutting of floors, walls, ceilings, and roofs to maintain and required work is performed. Connections between all electrical equipment must be provided by the manufacturer of the equipment.

ALTERNATE: LINFIELD 301
Alternate for PPA#0136B is Room LINFIELD 301 in its entirety. Do not include work for LINFIELD 301 in BASEBID.
MECHANICAL SYMBOLS

- SUPPLY DUCT (DIRECT)
- RETURN DUCT (DIRECT)
- EXHAUST DUCT (SECTION)
- FLEXIBLE DUCT CONNECTION
d - BILGE WITH TURING HOLE
- RADIANT RADIATOR
- FIRE
- PRESSURE SWITCH
- BACKDRAFT DAMPER
- FUMED CONCENTRATION
- BLOW OFF GROUP
- COMBINATION CIRCUIT & CONDENSATE VALVE
- FEED & LIFT
- ISOLATION VALVE
- MANUAL BALANCING VALVE
- TEMP/DIA/PRESSURE TEST
- LIMING TANK

MECHANICAL ABBREVIATIONS

- AUTO/FLOW VALVE
- ATTIC/LOFT COOLING
- AUTO/TRANSPORT
- API CONDENSATE RISERS
- AUTO/TRANSF. VENT
- BLOW OFF GROUP
- BLOW OFF VALVE
- CONTRACTOR
- COMPRESSION cavity
- CONVENTIONAL DUCTWORK
- CRANKCASE VENT
- DUCT BAND
- DUCT BREAK
- DRAIN VALVE WITH HOSE & SHUTOFF VALVE
- CHECK VALVE
- DUCT-VACUUM
- DRY BULB TEMPERATURE (°F)
- EXHAUST AIR
- DIRECT EXPANSION
- DRY BULB TEMPERATURE
- DECIBEL
- CUBIC FEET
- CONTINUATION
- CONSTANT AIR VOLUME
- COMMON
- BTU
- BRAKE HORSEPOWER
- LINEAR FEET
- INCH
- HP
- GPM
- HC
- FVEL
- FS
- PS
- P
- T
- RH
- RA
- PRV
- PC
- PC
- IPS
- IN
- ID
- GC
- GC
- FVEL
- FS
- CONDENSATE RISERS
- EXISTING STEAM AND PIPING PER THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE.
- VERIFY THE LOCATION OF THERMOSTATS AND SENSORS WITH THE LIGHTING PLANS.
- COORDINATE THE INSTALLATION OF GRILLES, REGISTERS AND DIFFUSERS MATERIALS REQUIRED FOR A COMPLETE INSTALLATION.
- FIELD VERIFY LOCATIONS AND DIMENSIONS PRIOR TO AND DURING PERFORMANCE OF THE WORK AND NOTIFY THE ARCHITECT/ENGINEER OF ANY MAJOR DISCREPANCIES.
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- PROVIDE REMOTE CONTROLLED DAMPER ACTUATORS FOR BALANCING REMOVABLE CEILINGS.
- PROVIDE ACCESS DOORS TO ALLOW SERVICE AND INSPECTION OF ASSEMBLIES WITH A UL OR DIFFUSERS SHALL BE LIMITED TO 5FT.
- PROVIDE ISOLATION WITH BRACING CONTAINED WITHIN EMELSS WALL.
- INFORM THE ARCHITECT AND OWNER OF ANY DISCREPANCIES.
- THE PLUMBING CONTRACTOR SHALL COORDINATE SALVAGE OF ALL UNWANTED EQUIPMENT.
- THE PLUMBING CONTRACTOR SHALL DISPOSE OF ALL UNWANTED EQUIPMENT.
- EXISTING MECHANICAL EQUIPMENT SHOWN LIGHT (
- ANY MAJOR DISCREPANCIES.
- MATERIAL REQUIRED FOR A COMPLETE INSTALLATION.
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SUMMARY OF WORK

CLASSROOM INTERIOR UPGRADES

MONTANA STATE UNIVERSITY
ADDRESS: PLANT GROWTH CENTER, ROOMS 210, 212 & 214, BOZEMAN, MT 59717

DESCRIPTION:

ROOM 214 WILL RECEIVE AN INTERIOR REMODEL INCLUDING NEW CEILINGS, FLOORS, LIGHTING AND WALL FINISHES. ROOM 211 AND ADJACENT STOREROOMS TO CONVERTED INTO TWO SEPARATE UPDATED CLASSROOMS TO BE RENUMBERED 210 AND 212. FINISHING OF THESE SPACES WILL INCLUDE NEW CEILINGS, FLOORS, LIGHTING AND WALL FINISHES.

ADD ALTERNATES INCLUDED IN PPA #19-0136B

1. LINFIELD 301 - THE ENTIRETY OF ROOM LINFIELD 301 IS TO BE AN ALTERNATE FOR PPA19-0136B.

2. PGC 210 & 212 - DOORS FOR 210 & 212 TO RECIEVE ALL NECESSARY WORK FOR CATCARD INSTALLATION. SEE SPECS AND ELECTRICAL "HALLWAY DISPLAY" - HALLWAY DISPLAY CASEWORK LOCATED IN HALLWAY BETWEEN 210 & 214 TO BE ALTERNATE. SEE SPECS, DRAWINGS AND ELECTRICAL FOR ADDN'L INFORMATION.
**DEMOLITION NOTES 211**

- REMOVE (E) WALL, 1/2" TO FOOT FOR GOOD DRUM. PROTECT FERRIS WIRE.
- REMOVE EXISTING DOOR FRAME EXCEPT FOR PERATIONAL.
- SWING DOOR FOR INSTALLATION. MANUALLY SWING FOR LOCATION.
- REMOVE (E)HIT BY NEW TILES AND DISPOSAL OF.
- REMOVE (E) CEILING ACOUSTIC, REMOVE ALL EXPOSED FLOORS EXISTING.
- REMOVE (E) GLASS FOR SECURITY CONSIDERATION. SUGGESTION FOR EXISTING, ALL EXISTING LAY IN A ROOF IN A VAULT TO BE DISPOSED OF.

**GENERAL DEMOLITION NOTES:**

- REMOVE (E) ALL WALLS AND CEILINGS. REMOVE ALL EXISTING DOORS AND WINDOWS. REMOVE ALL EXISTING FIXTURES AND EQUIPMENT. REMOVE ALL EXISTING CABINETS AND CASEWORK.
- REMOVE ALL EXISTING CEILING GRID AND HANGING LIGHTS. REMOVE ALL EXISTING BASE BOARDS AND PLASTER WALLS. REMOVE ALL EXISTING FLOORING.
- REMOVE (E) KEYS AND LOCKS. REMOVE ALL EXISTING FIXTURES AND EQUIPMENT. REMOVE ALL EXISTING CABINETS AND CASEWORK. REMOVE ALL EXISTING CEILING GRID AND HANGING LIGHTS. REMOVE ALL EXISTING BASE BOARDS AND PLASTER WALLS. REMOVE ALL EXISTING FLOORING.
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**EXISTING PHOTOS- PGC 211**

**EXISTING PHOTOS- PGC 210**

**EXISTING PHOTOS- PGC 212**
GENERAL DEMOLITION NOTES:

a. REMOVE WALLS AND CEILINGS AS SHOWN.

b. REMOVE ALL LOOSE FURNITURE, INCLUDING LECTERN.

Remove and dispose of pencil sharpener and clock (if applicable).

Remove, projectors, screen, and whiteboards - give to MSU.

Verify all conditions and coordinate with all disciplines of contract. Undocumented field changes may have occurred and are to be brought to the attention of the architect when discovered.

WHERE DEMOLITION IS INDICATED, WALLS SHALL BE REMOVED AND CEILING SHALL BE PATCHED, REPAIRED AND PAINTED TO MATCH EXISTING.

COORDINATE ALL MECHANICAL, ELECTRICAL, FIRE SYSTEMS, COMMUNICATIONS AND UTILITY SHUT-DOWNS WITH OWNER PRIOR TO REMOVING AND OR RELOCATING, 72 HOUR ADVANCE NOTICE REQUEST PER MSU REQUIREMENTS.

ALL DEMOLITION DRAWINGS ARE INTENDED TO SHOW GENERAL SCOPE OF WORK WITHIN THE INTENT OF THE PROJECT AND ARE NOT INTENDED TO EXCLUDE ANY DEMOLITION WORK NECESSARY FOR PRIOR COMPLETION OF THE WORK OUTLINED IN THE PROJECT DOCUMENTS. CONTRACTOR SHOULD ASSUME ADDITIONAL MINOR DEMOLITION ITEMS NOT SHOWN ON PLANS, NO ADDITIONAL PAYMENT WILL BE MADE FOR SUCH MINOR ELEMENTS.

SEE MECH. AND ELEC. DEMOLITION PLANS FOR SPECIFIC DEMO OF MECHANICAL AND ELECTRICAL SYSTEMS.

SEE HAZARDOUS MATERIALS ABATEMENT REPORT FOR ADDITIONAL INFORMATION AND COORDINATION.

CONTRACTOR TO CLEAN ALL WINDOW GLASS AND FRAMES.

DEMOLITION PLANS - PGC 214

DEMO LEGEND

ROOM 215 - HAZARDOUS MATERIALS

- GRAY HVAC JOINT CONNECTION MASTIC (2% CHRYSOTILE)

ROOM 215 IS LOCATED TO THE WEST OF CLASSROOM 214 WHERE WORK WILL OCCUR. REMEDIATION OF HAZARDOUS MATERIALS MAY BE REQUIRED BEFORE SELECTIVE DEMOLITION CAN PROCEED. CONTRACTOR TO COORD WITH MSU AND ABATEMENT CONTRACTOR.
ADD THE FOLLOWING HARDWARE TO DOORS 210A, 210B, 212A, 212B:

1. ELECTRIC STRIKE - VD 6212 (NOTE THIS MUST BE RETROFIT INTO EXISTING FRAMES FOR 212A AND 212B)
2. J-BOX FOR OWNER-SUPPLIED CATCARD CARD SWIPE AND CATCARD POWER SUPPLY
3. POWER SUPPLY - SCHLAGE PS902 BB, CONTRACTOR MAY PROVIDE SINGLE POWER SUPPLY FOR MULTIPLE DOORS IF 80/20 MAX. AMP DRAW MAINTAINED
4. CAT CARD READER/CONTROLLER - SUPPLIED BY OWNER
5. GASKETING: PEMKO S88GR FULL PERIMETER

CLASSROOM RENOVATIONS
PLANT GROWTH CENTER & LINFIELD

PLANT GROWTH 210, 212 & 214 - FLOOR PLAN

DOOR SCHEDULE

<table>
<thead>
<tr>
<th>DOOR TYPE</th>
<th>DOOR SIZE</th>
<th>GLAZING TYPE</th>
<th>SCHEDULE COMMENTS</th>
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<tbody>
<tr>
<td>210A VG NEW HM</td>
<td>7'-0&quot; 3'-0&quot; 1 3/4&quot; HM-1 1</td>
<td>NEW DOOR - CARD ACCESS BID ALTERNATE</td>
<td></td>
</tr>
<tr>
<td>212B VG EXISTING HM</td>
<td>7'-0&quot; 3'-0&quot; 1 3/4&quot; EXIST HM - REPAINT TO MATCH EXISTING REUSE ROOM 211 ENTRY DOOR- CLEAN DOOR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>214A VG EXISTING HM</td>
<td>7'-0&quot; 3'-0&quot; 1 3/4&quot; EXIST HM - REPAINT TO MATCH EXISTING REUSE ROOM 214 ENTRY DOOR- CLEAN DOOR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>214B VG EXISTING HM</td>
<td>7'-0&quot; 3'-0&quot; 1 3/4&quot; EXIST HM - REPAINT TO MATCH EXISTING REUSE ROOM 214 ENTRY DOOR- CLEAN DOOR</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

DOOR HARDWARE:

- 3 HINGES: 4 1/2" X 4 1/2" NRP 5 KNUCKLE HEAVY WEIGHT BALL BEARING HINGES
- 1 CLOSERS: LCN 4040XP SCUSH1 LEVER LOCKSET - CLASSROOM FUNCTION
- KEY CORE TO MATCH MSU SYSTEM (BEST)
- GASKETING: PEMKO S88GR FULL PERIMETER

NOTE: ALL DOORS TO BE INSTALLED, FASTEN TO EA. OTHER, BRACE TO CEILING RELOCATED FROM SCREEN PROVIDED BY OWNER.
PROJECTION SCREEN INSTALL: FINAL LOCATION TO BE FIELD VERIFIED. SCREEN TO BE RECESSED INTO CEILING, AND HUNG FROM STRUCTURE ABOVE. SCREEN PROVIDED BY OWNER.

STORAGE CABINETS

PLANT GROWTH CENTER & LINFIELD

CLASSROOM RENOVATIONS

MSU-CPDC
PLANT GROWTH CENTER & LINFIELD

WEB & TV TO BE CENTERED ON WALL WITH 8" BTWN

FILLER PANELS

4'-0" TYP.

ELEVATION 212 NORTH

ELEVATION 212 EAST

ELEVATION 212 NORTH (SINK)

ELEVATION 212 SOUTH

ELEVATION 212 WEST

210-212 TYPICAL RETURN SOUTH WALL

1/4" = 1'-0" REF: 1/ A100

DATE

01/14/2020

PPA#19-0136B

www.mosaicarch.com

428 N. Last Chance Gulch
Helena, Montana 59601
406.449.2013 phone

arc tecture - pl an ning - design

DRAWN BY:

Mosaic

REVIEWED BY:

Mosaic

SHEET TITLE

ELEVATIONS - PAC

ELEVATIONS - 210 & 212

SHEET

A200
HALLWAY DISPLAY ALTERNATE

1. HALLWAY DISPLAY: ENLARGED PLAN

2. HALLWAY DISPLAY - ENLARGED ELEVATION

3. DISPLAY CASE HEAD

4. DISPLAY CASE TRACK

5. DISPLAY CASE SECTION

6. DISPLAY CASE SECTION @ TACK WALL

7. DISPLAY CASE JAMBS

ALL WORK ON THIS SHEET PART OF CASEWORK BID ALTERNATE. BASE BID TO INCLUDE ANY PREVIOUS PAINTING OF HALLWAY WALL. CASEWORK AND SPECIALTY WORK SHOWN ON THIS SHEET.
<table>
<thead>
<tr>
<th>Room: Number</th>
<th>Image</th>
<th>Mark Type Count Description</th>
<th>Manufacturer Comments</th>
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<tr>
<td>210 T-7</td>
<td>29Hx36Dx96W,Glides 6</td>
<td>Pillow Rectangular Table - 36&quot;D x 96&quot;W x 29&quot;H, Glides</td>
<td>KI, Inc. Phoenic Top, Starlight Silver base, Table to be fixed, outlets to be provid ed below tabletop w/ wire managers</td>
</tr>
<tr>
<td>212 T-11</td>
<td>29Hx48Dx96W,Glides 5</td>
<td>Pillow Rectangular Table - 48&quot;D x 96&quot;W x 29&quot;H, Glides</td>
<td>KI, Inc. Phoenic Top, Starlight Silver base, Table to be fixed, outlets to be provid ed below tabletop w/ wire managers</td>
</tr>
<tr>
<td>C-6</td>
<td>Chair_loose_KI-Learn2-IntelectWave COLOR 102</td>
<td>4-Leg Poly Chairs w/ Casters</td>
<td>KI, Inc.</td>
</tr>
<tr>
<td>214 T-11</td>
<td>Table-Nest-KI-Pirouette-Rectangular-Collaborative 20</td>
<td>DESC</td>
<td>KI, Inc. Phoenic Top, Starlight Silver base, Casters</td>
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<td>214 T-12</td>
<td>Table-Nest-KI-Pirouette-Rectangular-Collaborative 1 DESC</td>
<td>KI, Inc. Phoenic Top, Starlight Silver base, Casters</td>
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</tr>
<tr>
<td>210, 212</td>
<td>Table-Nest-KI-Pirouette-Rectangular-Collaborative 18x60 6</td>
<td>DESC</td>
<td>KI, Inc. Phoenic Top, Starlight Silver base, Casters, Nesting</td>
</tr>
<tr>
<td>T-8</td>
<td>Table-Nest-KI-Pirouette-Rectangular-Collaborative 24X48 7</td>
<td>DESC</td>
<td>KI, Inc. Phoenic Top, Starlight Silver base, Casters, Pin height adjustable</td>
</tr>
<tr>
<td>T-10</td>
<td>Table-Rectangular_T_Base-Fixed-AI-Trek 24x48 4</td>
<td>Trek Rectangular Table - 24&quot;D x 48&quot;W, Pin height adjustable, Casters</td>
<td>KI Phoenic Top, Starlight Silver base, Casters, Pin height adjustable</td>
</tr>
</tbody>
</table>

Grand total: 151
KEY NOTES:

1. PROVIDE 2X2 INT. RATED POE MOUNTED BOX FOR POE CLOCK. CONTRACTOR TO MOUNT BOX AT EXACT LOCATION WITH ARCH. SUBMIT PHOTO PRIOR TO INSTALLATION.

2. PROVIDE EIGHT 8-GANG BOX WITH CAT6 HOMERUN TO EXISTING TELECOMM BACKBOARD IN ROOM 135 (RELOCATED). PROVIDE SERIES 4000 DUAL GFI MOUNT RECEPTACLE WITH SERIES V700 WIREMOLD, GRINNELL SYSTEM; EXACT LOCATION WITH ARCHITECT AND MSU PRIOR TO ROUGH FEED DOWNSTREAM DEVICES IF REQUIRED.

3. PROVIDE WIRING BOX AND 1/2" CONDUIT PULL THROUGH FLOOR BOX. COORDINATE WITH ARCHITECT/ENGINEER.

4. PROVIDE SURFACE MOUNT RECEPTACLE WITH SERIES V700 WIREMOLD, GRINNELL SYSTEM; EXACT LOCATION WITH ARCHITECT AND MSU PRIOR TO ROUGH FEED DOWNSTREAM DEVICES IF REQUIRED.

GENERAL ELECTRICAL NOTES

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LIGHTING DEMOLITION PLAN

TPC 211

1. LIGHTING DEMOLITION PLAN

TPC 210 & 212

2. LIGHTING DEMOLITION PLAN

TPC 212 LIGHTING CONTROL DIAGRAM

3. LIGHTING CONTROL DIAGRAM

TPC 210 LIGHTING CONTROL DIAGRAM

4. LIGHTING CONTROL DIAGRAM

KEY NOTES:

1. ALL LIGHTING FIXTURES TO REMAIN. 
   (a) AUTOMATIC-ON/AUTOMATIC OFF. 
   (b) PLUG n' GO, SEQUENCE OF OPERATION.
   (c) PROVIDED FOR EACH NOTED LV SWITCH LOCATION.
   (d) PROVIDED 3 DIGITAL DIMMING SWITCHES.

2. PROVIDED 4 DIGITAL DIMMING SWITCHES.

3. GENERAL ELECTRICAL NOTES

   (a) LIGHTING REMOVED IN THIS SHEET. 
   (b) LIGHTING REMOVED IN THIS SHEET. 
   (c) LIGHTING REMOVED IN THIS SHEET. 
   (d) LIGHTING REMOVED IN THIS SHEET.
**GENERAL ELECTRICAL NOTES**

1. PROVIDE SURFACE MOUNT RECEPTACLES WITH BRASS C占据 locations shown on View 2.

2. PROVIDE EXPANSION JUNCTION BOXES AS SHOWN.

3. PROVIDE PATCH/FILL OLD FLOOR CONDUIT PENETRATION TO MAINTAIN CONTINUITY.

4. PROVIDE NEW CIRCUITS TO NEW DEVICES AS REQUIRED.

5. PROVIDE SURFACE MOUNT RECEPTACLE WITH SERIES V700 WIREMOLD, OAE.

6. PROVIDE GFI OUTLETS IN EACH BATHROOM AS SHOWN.

7. PROVIDE SURFACE MOUNT RECEPTACLE WITH SERIES V700 WIREMOLD, OAE.
**LIGHTING DEMOLITION PLAN**

**PGC 214 LIGHTING CONTROL DIAGRAM**

1. **1/8" = 1'**
2. **PHOTOSENSOR**
3. **SENSOR (TYP.)**
4. **OCCUPANCY**
5. **LMRS-400**
6. **LMRC-213 TRIPLE RELAY ON/OFF/0-10V**
7. **DIMMING ROOM CONTROLLER**
8. **COUPLER LMDC-100**
9. **LMRJ-C8**

**CLASSROOM**

- **(TYP.)**
- **RJ45**
- **FREE TOPOLOGY & SPLITTER ACCEPTABLE**
- **LMRJ SERIES PRE-TERMINATED CABLES OR CAT5E.**
- **(TYP. FOR BOTH NOTED LV SWITCH LOCATIONS)**
- **(3) LMDM-101 DIGITAL DIMMING SWITCHES**
- **BALLAST REQUIRED.**
- **0-10VDC DIMMING LIGHTING LOAD**
- **CLASS 2 0-10 VOLT**
- **AUTO-ON/AUTOMATIC OFF.**
- **DAYLIGHT ZONE TO A PREDETERMINED LIGHT LEVEL.**
- **DAYLIGHT SENSOR SHALL AUTOMATICALLY DIM LIGHTS WITHIN VOLTAGE TO ROOM CONTROLLER AND LIGHTS AS REQUIRED.**
- **REUSE EXISTING LIGHTING CIRCUITS IN ROOM. RE-ROUTE LINE THE ROOM CONTROLLER DEFAULTS TO MULTI-LEVEL REQUIRED IN A ROOM.**

**KEY NOTES:**

1. **All wiring, lighting and sheet metal will be done to University specifications and shall be conformed to University and National Electrical Codes.**
2. **Demolish all existing lighting controls within room.**
3. **Circuit new lighting fixture to existing hallway lighting circuit, control, and dimming switch.**
4. **All wiring, lighting and sheet metal will be done to University specifications and shall be conformed to University and National Electrical Codes.**
5. **Provide 3 luminaire LUMINAIRES AT 9' AS REQUIRED. PROVIDE NEW CONTROLS AS SHOWN. MOUNT TYPE F1 LIGHTING CIRCUIT PREVIOUSLY SERVING ROOM. EXTEND TO NEW LIGHTS ALL NEW LIGHTING IN THIS SPACE SHALL BE CIRCUITED TO EXISTING CIRCUIT NEW UNDERCABINET LIGHT TO EXISTING HALLWAY LIGHTING DEMOLISH ALL EXISTING LIGHT FIXTURES WITHIN ROOM. DEMOLISH ALL EXISTING LIGHTING CONTROLS WITHIN ROOM. SCHEDULE ON SHEET E001 AND LIGHTING CONTROLS DETAIL ON THIS SHEET.**

**GENERAL ELECTRICAL NOTES**

- **Consultant #:**
- **REV. DESCRIPTION DATE**
- **PPA#19**
- **PLANT GROWTH CENTER & LINFIELD**
- **BOZEMAN, MONTANA**
- **PHONE: 406.994.5413**
- **FAX: 406.994.5665**
- **SHEET TITLE**
- **DATE**
- **NUMBER OF SHEETS**
- **SHEET SIZE**
- **DRAWN**
- **CHECKED**
- **DRAWN**
- **CHECKED**
- **PRINTED**
- **REVIEWED BY:**
- **REMARKS**
- **ARCHITECT/ENGINEER.**
GENERAL NOTES

A. AUTOMATIC SPRINKLER SYSTEMS SHALL BE DESIGNED, INSTALLED AND TESTED IN ACCORDANCE WITH NFPA 13 AND UL listed standards. AUTOMATIC SPRINKLER SYSTEMS SHALL COMPLY WITH ALL CODE REQUIREMENTS APPLICABLE TO THE PROPOSED SPRINKLER SYSTEM.

B. AUTOMATIC SPRINKLER SYSTEMS SHALL BE DESIGNED IN ACCORDANCE WITH NFPA 13.

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CODES AND STANDARDS

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VALVES/HANGERS/SUPPORTS

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**HAZARD CLASSIFICATION**

<table>
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<th>AREA</th>
<th>HAZARD CLASS</th>
<th>MINIMUM DENSITY (GPM/FT²)</th>
<th>MINHYD (GPM)</th>
<th>2HDEMAND (GPM)</th>
<th>DURATION (MIN)</th>
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</thead>
<tbody>
<tr>
<td>LIGHT HAZARD</td>
<td>0.10</td>
<td>1500</td>
<td>150</td>
<td>90</td>
<td></td>
</tr>
<tr>
<td>ORDINARY HAZARD (GROUP 1)</td>
<td>0.15</td>
<td>1500</td>
<td>250</td>
<td>90</td>
<td></td>
</tr>
<tr>
<td>ORDINARY HAZARD (GROUP 2)</td>
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<td>1500</td>
<td>250</td>
<td>90</td>
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</tbody>
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*DRY SYSTEM - HAZARD CLASSIFICATION AND FIRE SPRINKLER REQUIREMENTS TO MATCH SHADY AREA ON PLAN.

1. DEMOLISH EXISTING SPRINKLER HEADS. APPROXIMATE LOCATIONS SHOWN ON PLAN.
2. INSTALL NEW SPRINKLER HEADS AND MODIFY EXISTING FIRE SPRINKLER SYSTEM TO ACCOMMODATE ARCHITECTURAL ROOM AND CEILING MODIFICATIONS. APPROXIMATE LOCATIONS SHOWN ON PLAN.

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**KEY NOTES:**

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**PLANT GROWTH CENTER & LINFIELD**

**MONTANA STATE UNIVERSITY**

**MSU-CPDC**

**BOZEMAN, MONTANA**

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**CONSULTANT #:**

**3821.045**

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**CLASSROOM RENOVATIONS**

**2020**

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**SHEET TITLE:**

**FIRE PROTECTION PLAN - PGC 210, 212 & 214**

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**DATE:**

**01/14/2020**

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**REV. DESCRIPTION DATE**

**SHEET**

**F100**

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**REVIEWED BY:**

**DRAWN BY:**

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**1. PGC 211 FIRE PROTECTION DEMO PLAN**

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**2. PGC 210, 212 FIRE PROTECTION PLAN**

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**3. PGC 214 FIRE PROTECTION DEMO PLAN**

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**4. PGC 214 FIRE PROTECTION PLAN**
MECHANICAL SYMBOLS

MECHANICAL ABBREVIATIONS

GENERAL MECHANICAL NOTES

KEY NOTES:

TEST AND BALANCE

GRILLE, REGISTER AND DIFFUSER SCHEDULE
**GENERAL PLUMBING NOTES**

1. It shall be the responsibility of the Plumbing Contractor to coordinate the location of equipment and routing of piping with all other trades.
2. Review the drawings for all disciplines and provide all labor and materials required for a complete installation.
3. All plumbing fixtures shall be installed in compliance with the requirements of the International Plumbing Code. Insulate all exposed piping below ADA accessible level.
5. Provide trap primers for all floor drains and sinks. Locate trap primers in a valve/stop system. Provide clay pipe in a valve/stop system. Provide mat for all floor drains.

**PLUMBING FIXTURE SCHEDULE**

<table>
<thead>
<tr>
<th>WK#</th>
<th>ITEM</th>
<th>MODEL</th>
<th>MATERIAL &amp; FINISH</th>
<th>DESCRIPTION</th>
<th>TRIM</th>
<th>MARK</th>
<th>MFG</th>
<th>FAN#</th>
<th>TRIM #</th>
<th>NM#</th>
<th>REGS.</th>
<th>FINISHING</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>SK-1</td>
<td>ELKAY LRAD312265 ADA COMPLIANT SINK - SINGLE</td>
<td>STAINLESS STEEL</td>
<td>BOWL - 31&quot;X22&quot;X6.5&quot; STAINLESS STEEL WIDESPREAD W/ SIDE SPRAY</td>
<td>JAQUAR</td>
<td>2/4</td>
<td>1/2</td>
<td>1/2</td>
<td>1/2</td>
<td>1/2</td>
<td>1/2</td>
<td>SEE NOTES</td>
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**KEY NOTES:**

1. Provide trap primers for all floor drains and sinks. Locate trap primers in a valve/stop system. Provide clay pipe in a valve/stop system. Provide mat for all floor drains.

**COORDINATION NOTES:**

1. Coordinate the location of equipment and routing of piping with all other trades.
2. Review the drawings for all disciplines and provide all labor and materials required for a complete installation.
3. All plumbing fixtures shall be installed in compliance with the requirements of the International Plumbing Code. Insulate all exposed piping below ADA accessible level.
5. Provide trap primers for all floor drains and sinks. Locate trap primers in a valve/stop system. Provide clay pipe in a valve/stop system. Provide mat for all floor drains.

**CONSTRUCTION MANAGER:**

1. Coordinate the location of equipment and routing of piping with all other trades.
2. Review the drawings for all disciplines and provide all labor and materials required for a complete installation.
3. All plumbing fixtures shall be installed in compliance with the requirements of the International Plumbing Code. Insulate all exposed piping below ADA accessible level.
5. Provide trap primers for all floor drains and sinks. Locate trap primers in a valve/stop system. Provide clay pipe in a valve/stop system. Provide mat for all floor drains.
GENERAL PLUMBING NOTES

A.) IT SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO FIELD
COORDINATE THE LOCATION OF EQUIPMENT AND ROUTING OF PIPING WITH ALL
OTHER TRADES.

B.) IT SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO
REVIEW THE DRAWINGS FOR ALL DISCIPLINES AND PROVIDE ALL LABOR AND
MATERIALS REQUIRED FOR A COMPLETE INSTALLATION.

C.) PROVIDE AND INSTALL SEISMIC BRACING FOR ALL EQUIPMENT, DUCTWORK
AND PIPING PER THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE.

D.) SEAL ALL PIPE PENETRATIONS THROUGH FIRE RATED ASSEMBLIES WITH A
UL-APPROVED FIRE STOP SYSTEM.

E.) PROVIDE ACCESS DOORS TO ALLOW SERVICE AND INSPECTION OF
EQUIPMENT, VALVES, DAMPERS AND DEVICES INSTALLED ABOVE NON
REMOVABLE CEILINGS.

F.) ALL BELOW SLAB VENT PIPING SHALL BE 2" MINIMUM.

G.) PROVIDE TRAP SEALS FOR ALL FLOOR DRAINS AND SINKS.

H.) PROVIDE TRAP PRIMERS FOR ALL FLOOR DRAINS AND SINKS. LOCATE TRAP
PRIMERS IN A VALVE BOX IN AN ACCESSIBLE LOCATION.

I.) INSTALL ACCESSIBLE PLUMBING FIXTURES IN COMPLIANCE WITH ADA
REQUIREMENTS. INSULATE ALL EXPOSED PIPING BELOW ADA ACCESSIBLE
FIXTURES.

J.) INSTALL FLOOR DRAIN STRAINERS AND CLEANOUT COVERS FLUSH AND
LEVEL WITH FINISHED FLOOR.

A. LOCATIONS AND DIMENSIONS OF EXISTING FACILITIES IDENTIFIED ON THIS
DRAWING ARE APPROXIMATE AND REPRESENT THE BEST AVAILABLE
INFORMATION BASED ON A COMBINATION OF FIELD INVESTIGATIONS AND
VARIOUS DESIGN AND RECORD DRAWINGS AVAILABLE AT THE TIME OF THE
DESIGN. FIELD VERIFY LOCATIONS AND DIMENSIONS PRIOR TO AND DURING
PERFORMANCE OF THE WORK AND NOTIFY THE ARCHITECT/ENGINEER OF
ANY MAJOR DISCREPANCIES.

B. ALL EXISTING PLUMBING EQUIPMENT, PIPING SHOWN AS DARK AND DASHED
SHALL BE DEMOLISHED. EXISTING MECHANICAL EQUIPMENT SHOWN LIGHT
WITH SOLID LINES IS TO REMAIN.

C. THE PLUMBING CONTRACTOR SHALL COORDINATE SALVAGE OF ALL
REMOVED EQUIPMENT IN GOOD CONDITION WITH THE OWNER. THE
PLUMBING CONTRACTOR SHALL DISPOSE OF ALL UNWANTED EQUIPMENT.

D. COORDINATE ANY ROOF, WALL, CEILING AND FLOOR PATCH AND REPAIR
WORK REQUIRED BY THE DEMOLITION OF PLUMBING SYSTEM WITH THE
CONSTRUCTION MANAGER.

E. CONCRETE SLAB CUTTING REGIONS SHOWN ON DRAWINGS ARE
APPROXIMATE AND MUST BE FIELD COORDINATED PRIOR TO THE CUTTING
OF THE SLAB.