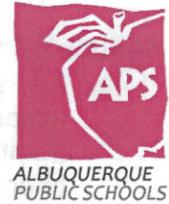


## ADDENDUM NO.2

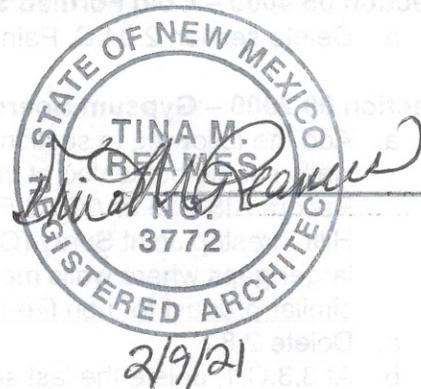
Date: 02/09/21



### PROJECT – ECA @ CEC Modernization, Renovation & Addition

807 Mountain Road NE  
Albuquerque, NM, 87102

RFP NO. 21-032 RRR  
APS PROJECT # 507  
NIGP Code: 90927; 90928; 909



TO: ALL BIDDERS OF RECORD

This Addendum forms a part of the Contract Documents and modifies or supplements the Project Manual or the Drawings as indicated below.

All other provisions of the Contract Documents shall remain unchanged. This Addendum is hereby made a part of the Contract Documents to the same extent as those provisions contained in the original documents and all itemized listings thereof.

Each bidder shall acknowledge receipt of the Addendum Number Two (2) on the Bid Proposal Form in the space provided.

### GENERAL

- a. A Google Drive site has been provided by APS for Information Only:  
[https://drive.google.com/drive/folders/1N2c\\_oVb7DnrR112u7tEcffzCvYG97jLN?usp=sharing](https://drive.google.com/drive/folders/1N2c_oVb7DnrR112u7tEcffzCvYG97jLN?usp=sharing) It contains the following list of drawings and documents.
  1. 1975 Plan Set of ECA @ CEC Original Building
  2. 2014 Plan Set of ECA @ CEC Addition
  3. Fire Alarm, Intercom, + Intrusion Drawings provided by Sound + Signal for ECA @ CEC.
- b. Existing portions of the building are already served by Mitsubishi VRF systems. Mitsubishi-Trane shall be the only approved VRF manufacturer.
- c. This is NOT a LEED Project, delete all references to LEED Submittals in Specifications.



## SPECIFICATIONS

### Section 05 1200 – Structural Steel Framing

- a. Add section “2.03.C. Painting: Paint all framing components with the specified paint in accordance with the recommendations contained in the SSPC/AISC "Guide to the Shop Painting of Structural Steel". Use a painting system adequate to provide protection equal to or exceeding a zone 1-A defense as defined in the SSPC/AISC "Guide". The paint shall have a minimum dry film thickness of 1.5 mils.”

### Section 05 4000 – Cold Formed Structural Steel

- a. Delete section 2.04.C. Painting: this does not apply to metal stud framing.

### Section 09 2900 – Gypsum Board

- a. Add the following to section 2.8.E. Acoustical Sealant: “All sound isolating gypsum board walls should be sealed at the top and bottom with a nonhardening sealant such as [Pecora AIS-919](#) or [AC-20 FTR](#) (fire rated), or equivalent. Spray-on fire sealants such as [Hilti Firestop Joint Spray \(CFS-SP WB\)](#) and [Speed Plugs \(CP 777\)](#) are available for larger gaps where walls meet metal decks. [Hilti Smoke and Acoustic Spray CP 572](#) is a similar product for non fire-rated applications.”
- a. Delete 2.8.F.
- b. At 3.3.C.1, delete the last sentence: “Apply Prospec Decibel Drop sealant two cartridges per 32 square feet of area between layers of gypsum board, follow all manufacturers recommendations.”

### Section 10 5114 – Metal Lockers

- a. Remove reference to Penco Vanguard Locker as Basis of Design. Replace with “APS Standard Guidelines as Basis of Design: Lockers shall be constructed of one-piece (Unibody) side frame and locker front. All welded body with no rivets, screws or bolts. Powder coated 2-tiered, 16-gauge doors with louvers, 16-gauge body steel units with high security latch with no moving parts to receive pad lock, one double hook on ceiling and 3 single hooks on walls. Aluminum number plate. Two-tier lockers will be 15” W, 60”H, 15” D. Built-in with furr-out above lockers to ceiling or angled top and built-in solid 4” base or coved sealed 4” base on metal legs.”

### Section 33 6333 - Micropiles

- a. Add the attached Section 33 6333 Micropiles, total of 4 pages, see **Exhibit 01**.

### Section 23 0900 – Facility Management System

- a. CHANGE 1.4.A. Approved Manufacturers: Existing portions of the building are already served by Automated Logic controls therefore Automated Logic is the only approved controls manufacturer.

## DRAWINGS

### AD-101

- a. Delete “See Mechanical for more info.” In Computer Lab 103.



**AD-201**

- a. There is existing "Charles R Spain" Signage on the east face of the exterior Planetarium wall that will need to be removed and replaced for new stucco color coat. On drawing B2/AD-201. KN 15 will apply to this area.

**A-103**

- a. In Computer Lab 103, Delete "See Mechanical for more info." Add "Patch shall tie into existing access floor, frame in opening and match existing plywood thickness and finish level."

**A-105**

- a. Add KN 9 "Relocate existing projection screen as shown."
- b. Add KN 10 "Existing projection screen to remain." Place KN 10 bubble in Cosmetology 112 along west wall where project screen is shown.
- c. There are nine (9) keynotes that printed blank on the plan. The keynotes revisions are outlined below:
  - 1. Both soffits (2 locations) outside of Vocational Room 119 shall be KN 4.
  - 2. The west soffit outside of Vocational Room 122 shall be KN 4.
  - 3. Both soffits (2 locations) outside of Cosmetology 112 shall be KN 4.
  - 4. The north soffit outside of Cosmetology 102 shall be KN 4.
  - 5. The soffit outside of Unisex Restrooms 145 and 146 shall be KN 4.
  - 6. The south side of Cosmetology 102 shall be KN 9.
  - 7. Delete the blank keynote in Hall 114, just south of Storage 122D.

**A-106**

- a. Ceiling Elevation markers are incorrect in three (3) instances on A-106
  - 1. The soffit outside of Classroom 233 shall read 10'-2"
  - 2. The soffit outside of Classroom 234 shall read 10'-2"
  - 3. The soffit outside of Classroom 236 shall read 10'-2"

**A-201**

- a. There is existing "Charles R Spain" Signage on the east face of the exterior Planetarium wall that will need to be removed and replaced for new stucco color coat. On drawing B2/A-201. KN 21 will apply to this area.

**A-601**

- d. On the Door Schedule, Door A135, change Door Type "A" to Door Type "F"

**A-602**

- a. Window Type A reduced in size to match block coursing. Dimensions to read 4'-0" x 12'-8" overall, set at 3'-4" AFF
- b. Window Type B reduced in size to match block coursing. Dimensions to read 4'-0" x 6'-8" overall, set at 3'-4" AFF

**Sheet PP-101 – PRESSURE PIPING FLOOR PLAN**

- a. ADD general note K. as follows:  
Electrical contractor to provide e-MON Series 5000 water and gas meters. Gas and Water meters are to be installed in the piping by the plumbing contractor but powered and integrated to the e-MON server by the electrical contractor in coordination with APS personnel.



**Sheet P-401 – PLUMBING SCHEDULES**

- a. ADD Floor drains to Unisex 145 and Unisex 146
- b. CHANGE Sanitary routing in Girls 237. Refer to the revised sheet, see **Exhibit 02**.

**Sheet P-701 – PLUMBING SCHEDULES**

- a. REMOVE Duplicate P1a, American standard Model 3351.101, wall mounted water closet from the schedule.

**Sheet MD-101 – MECHANICAL DEMOLITION PLAN**

- a. ADD keynote #12 indicating the removal of floor supply diffusers from Computer Classroom. Refer to the revised sheet, see **Exhibit 03**.

**Sheet MH-101 – MECHANICAL FLOOR PLAN**

- a. ADD – keynote #12 indicating the addition of acoustic liner is the ERV duct work. Duct work sizing and routing has also been updated. Refer to the revised sheet, see **Exhibit 04**.

**Sheet MI-602 – MECHANICAL CONTROLS DIAGRAMS**

- a. REMOVE Building monitoring control diagram. The all building monitoring shall be done through an e-MON server and not via the facility management system. Electrical contractor to provide e-MON Series 5000 water and gas meters. Gas and Water meters are to be installed by the plumbing contractor but powered and integrated to the e-MON server by the electrical contractor in coordination with APS personnel.

**Sheet EL-102 – LIGHTING SECOND FLOOR PLAN**

- a. CHANGE (5) SR6, (7) SW2, AND (12) SW4 lighting fixtures per revised drawing, see **Exhibit 05**.

**Sheet EP-102 – POWER SECOND FLOOR PLAN**

- a. CHANGE head wall receptacles in NURSING LAB 242 per revised drawing, see **Exhibit 06**.

**Sheet E-601 – ELECTRICAL DIAGRAMS**

- a. CLARIFY, APS does all sub-metering through an e-MON server located at the APS Data Center, *not* through the Facility Management System (FMS). The project requires an internet-connected e-MON Series 5000 sub-meter, which will capture whole-building electrical usage. Electrical contractor to provide e-MON Series 500 water and gas meters. Gas and Water meters are to be installed by the plumbing contractor but powered and integrated to the e-MON server by the electrical contractor.

**Sheet E-701 – ELECTRICAL SCHEDULES**

- a. CHANGE lighting fixture types per sheet EL-102 changes per revised fixture schedule, see **Exhibit 074**



This addendum consists of fifteen (15) pages including six (6) full sized 24" x 36" drawing sheets as exhibits.

- Exhibit 01 – Specifications Section 33 6333 - Micropiles
- Exhibit 02 – Sheet P-401 – Enlarged Plumbing Plans
- Exhibit 03 – Sheet MD-101 – Mechanical Demolition Floor Plan
- Exhibit 04 – Sheet MH-101 – HVAC Floor Plan
- Exhibit 05 – Sheet EL-102 – Lighting Second Floor Plan
- Exhibit 06 – Sheet EP-102 – Power Second Floor Plan
- Exhibit 07 – Sheet E-701 – Electrical Schedules

Each bidder shall acknowledge receipt of this Addendum No. Two (2) on the Bid Proposal form in the space provided.

**END OF ADDENDUM No. 2**

Cherry/See/Reames Architects, PC

By \_\_\_\_\_  
Tina M. Reames, FAIA, President

## **SECTION 33 6333**

### **DRILLED MICROPILES**

#### **PART 1 – GENERAL**

##### **1.1 SECTION INCLUDES**

- A. Include materials, labor, services, and incidentals necessary for completion of this section of work.
- B. Extent of cast in place concrete work is shown on Drawings.
- C. Notify other trades of the date for placement in ample time for each to install their own work.

##### **1.2 RELATED SECTIONS**

- A. General and Supplemental General Conditions of the Contract and Division 1.
- B. STS 01 21 19 – Testing and Inspecting Allowances.

##### **1.3 REFERENCES**

- A. Where all or part of a Federal, ASTM, ANSI, New Mexico Standard Specifications for Public Works Construction etc. is incorporated by reference in these specifications, the reference standard shall be the latest edition and revision.
- B. Industry Standards, Specifications and Codes:
  - 1. General:
    - a. Comply with provisions of the following codes and standards except as modified herein.
    - b. Referenced codes and standards including revisions and commentaries shall be the most currently adopted as of the date of these Contract Documents.
  - 2. American Concrete Institute (ACI):
    - a. ACI 117 Standard Specifications for Tolerances for Concrete Construction and Materials.
    - b. ACI 301 Specifications for Structural Concrete.
    - c. Additional ACI sections are noted in later text.
  - 3. American Society for Testing and Materials (ASTM):
    - a. Specific ASTM standards are noted in later text.

#### **1.4 SUBMITTALS**

- A. Submit in accordance with Division 1 requirements.
- B. Complete description of equipment, procedures and techniques for pile installation.
  - 1. Equipment required for installation including, but not limited to: drills, pumps, casing, etc.
  - 2. Pipe and rebar specifications
  - 3. Grout mix design
- C. Pile design- Design drawings and calculations prepared by a registered professional engineer who has at least 5 years documented experience in the design of micropiles. The design shall include pile design and pile-footing connection design at existing footings. The design shall conform with applicable provisions of the Building Code, FHWA Micro-pile Design and Construction Guidelines, and accepted industry practice.
- D. Load Test Equipment - Submit for approval information on the test jack and calibration results. The test jack and pressure gauge shall be calibrated in conformance with ASTM requirements.

#### **1.5 QUALITY ASSURANCE**

- A. Designer's and Installer's Qualifications: The firm that performs the Work of this Section shall have a minimum of 5 years experience in the type of design and construction required for the Work of this Section and shall have designed and installed foundation systems for at least 5 projects of equivalent or greater difficulty as required by this Contract.
  - 1. The firm's staff shall include at least one Professional Engineer licensed by New Mexico State.
  - 2. The firm's supervising engineer and site foreman or superintendent for this project shall have at least 5 years of experience in this type of foundation Work.
- B. Contractor shall meet with the inspection/testing agency and Engineer at least 24 hours prior to major concrete pour.

### **PART 2 - PRODUCTS**

#### **2.1 MATERIALS**

- A. Furnish the materials required for the Work of this Section.
- B. Pipe reinforcement shall conform to ASTM A252 Grade 2 or approved equal. Mill secondary pipe is acceptable provided coupons are submitted for each truckload. Splicing shall be by threaded and coupled connections or continuous butt welds, using procedures recommended by the pipe supplier.
- C. Reinforcing bar shall conform to ASTM A615 Grade 60 or approved equal. Splicing details shall be either lap splices or approved couplers.

- D. Grout shall consist of Type I or III Portland Cement and water mix with a minimum 28-day compressive strength shall be 4000 psi. Potable water shall be used for mixing grout.
- E. Regrout tubes, if required, shall be PVC pipe or approved equal. The pipe material shall be nondegradable and compatible with Portland cement. Regrout tubes shall be filled with grout at the completion of work.

## **PART 3 – EXECUTION**

### **3.1 GENERAL**

- A. Piles shall be oriented as shown on the foundation plans. All piles shall be drilled within 4% of the angle indicated on the plans and within 3 inches of the location shown. Piles installed out of plumb or location shall be cause for rejection or reduced capacity as determined by the Designer.
- B. All pile installation shall be performed under the supervision of a qualified geotechnical engineer retained by the Owner.
- C. The Contractor shall protect all existing equipment and structures during pile installation.

### **3.2 INSTALLATION**

- A. Clean all mixing and transportation equipment. Wet forms thoroughly. Remove all ice, excess water, mud and other debris from within forms and from reinforcement. Notify Engineer prior to placing in ample time for inspection of forms and reinforcing.
- B. The minimum drilled hole diameter shall be within ½” of that shown on the plans. Holes shall be temporarily cased, as necessary, to the pile tip elevation or casing refusal materials. Casing may be terminated prior to the above requirements if the soils encountered can be drilled without caving.
- C. If pile capacity dictates extending into refusal materials, continue drilling until an adequate rock socket is obtained as determined by the Designer.
- D. Install micro-pile reinforcing in the center of the hole using centralizers as required. Measures shall be implemented to permit grout to flow from the pile to the annular spaces between the pile and the casing. Reinforcing bar and pile reinforcement shall be spliced as necessary.
- E. Drill hole and casing shall be tremie grouted full length. At Contractor’s option, the pile reinforcing may be installed after grouting.
- F. Temporary casing shall be slowly withdrawn and the grout level shall be checked periodically to ensure that the top of the grout does not fall below the bottom of the casing.
- G. Care shall be exercised to prevent damage to previously installed piles. The center to center spacing of subsequently installed piles shall be adjusted based on soil conditions.
- H. Piles may be regrouted to increase the bond with the surrounding soils. Piles which are to be regrouted shall be fitted with a regrout tube securely attached to the pile reinforcing. Regrouting shall be performed within 12 hours of pile installation.

### **3.3 FIELD QUALITY CONTROL**

- A. All pile shall be continuously inspected by the Owner's representative. A record shall be kept of each pile and shall include as a minimum:
1. Length of pile as installed
  2. Depth to rock
  3. Length of rock socket
  4. Theoretical grout volume
  5. Actual grout volume for primary and regrouting
  6. Grout pressure during casing withdrawal
  7. Conditions encountered during drilling
  8. Date and time of installation
  9. Pile number or location description
- B. Load Testing Piles: Test piles in accordance with ASTM D 1143, Quick Load Test Method for Individual Piles with the following modifications:
1. Do not start a load test until the earth is removed to the elevation of the bottom of the pile cap.
  2. Perform a load test on one pile in each pile cap group indicated on the Drawings to be load tested.
  3. Apply load in 10-15 percent increments at 2.5 minute intervals to 200 percent of the allowable design load.
  4. Hold full test load for a period of one hour.
  5. Remove full test load in four 25 percent decrements at 5.0 minute intervals.
  6. The net settlement after rebound shall not exceed 0.50 inch.
  7. Test piles, if properly located and not exceeding 0.50 inch net settlement, are acceptable as permanent and may be left in place.
  8. Submit one copy of load test results, stamped by a New Mexico State licensed professional engineer

**END OF SECTION 33 6333**

GENERAL SHEET NOTES

- A. REFER TO ARCHITECTURAL FLOOR PLANS FOR EXACT LOCATION AND HEIGHTS OF ALL PLUMBING FIXTURES BEFORE ROUGH-IN OR INSTALLATION OF PIPE. PLUMBING FIXTURES SHALL BE MOUNTED AT HEIGHTS SHOWN ON ARCHITECTURAL ELEVATION DRAWINGS.
- B. ALL PIPING IN FINISHED ROOMS SHALL BE CONCEALED IN FURRED CHASES UNLESS OTHERWISE NOTED ON THIS DRAWING.
- C. PROVIDE HINGED ACCESS DOORS FOR VALVES, WATER HAMMER ARRESTERS, ISOLATION BALL VALVES LOCATED IN NONACCESSIBLE CEILINGS AND CHASES. DOORS FURNISHED PER ARCHITECTURAL SPECIFICATIONS AND PURCHASED AND INSTALLED PER DIVISION 22. ACCESS DOOR RATINGS SHALL MATCH THE CLASSIFICATION OF WALLS AND CEILING FIRE RATING. COORDINATE COLOR AND TYPE OF ACCESS DOOR WITH ARCHITECTURAL PRIOR TO PERFORMING WORK.
- D. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL FIRE RATED AND OR SMOKE RATED WALLS AND ASSEMBLIES. PIPING PENETRATIONS OF FIRE AND SMOKE RATED WALLS AND LISTED ASSEMBLIES SHALL BE CAULKED AIRTIGHT TO THE ADJACENT STRUCTURE BY MEANS OF U.L. LISTED FIRE PROOF CAULKING MATERIAL. COORDINATE ALL PLUMBING PIPING WITH ALL OTHER TRADES AND PROVIDE NECESSARY OFFSETS TO AVOID CONFLICTS AND TO MAINTAIN REQUIRED EQUIPMENT ACCESS AND SERVICEABILITY.
- F. PIPING LOCATIONS HAVE BEEN SHOWN FOR CLARITY AND DO NOT NECESSARILY REFLECT THE EXACT LOCATION OF PIPE. COORDINATE ROUTING WITH ALL OTHER TRADES BEFORE INSTALLATION OR MAKEUP OF PIPE. PROVIDE COORDINATION DRAWINGS PER SPECIFICATIONS.
- G. REFER TO DRAWING P-701 FOR PLUMBING ROUGH IN REQUIREMENTS.
- H. ALL PLUMBING FIXTURES SHALL HAVE WALL CLEANOUTS.
- I. ALL P-TRAPS TO FLOOR SINKS AND FLOOR DRAINS SHALL BE SUPPLIED WITH A TRAP SEAL GUARD.
- J. ALL SANITARY PIPE IN KITCHEN TO BE CAST IRON. PROVIDE SANITARY PIPE DOWNSTREAM OF THE GREASE INTERCEPTOR PER SPECIFICATIONS.
- K. ROUTE ALL WASTE PIPING AT A 1% SLOPE UNLESS OTHERWISE INDICATED.

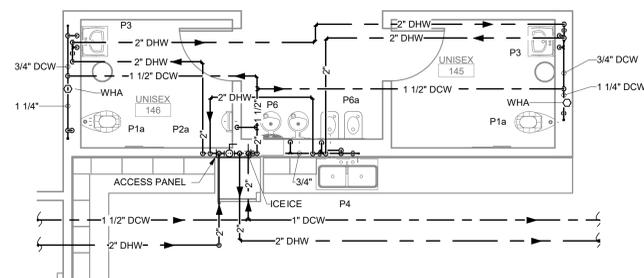
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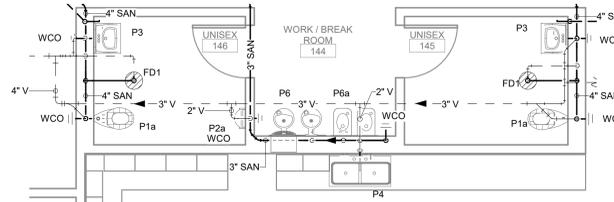
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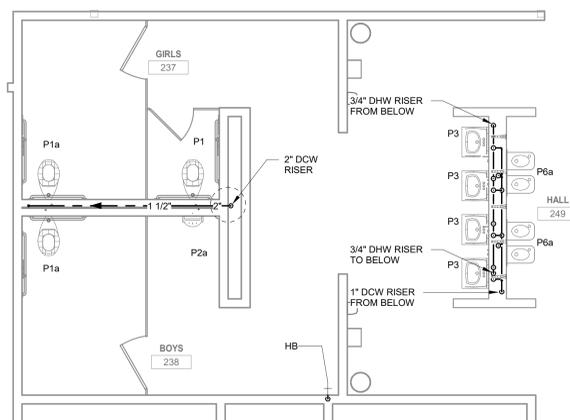
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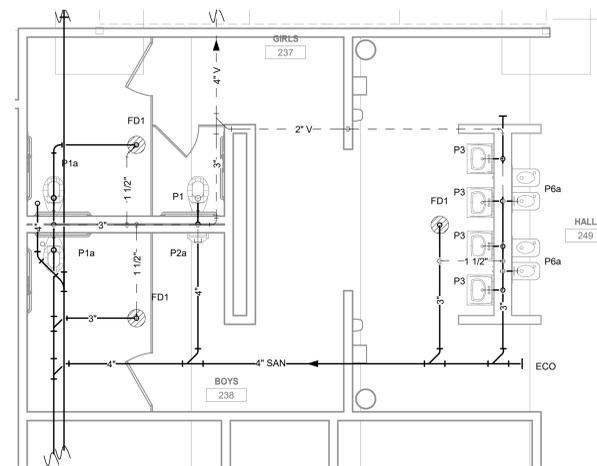
**C1** PRESSURE PIPING - L1 98'-0" Lecture Hall  
SCALE: 1/4" = 1'-0"



**C2** WASTE & VENT - L1 98'-0" Lecture Hall  
SCALE: 1/4" = 1'-0"



**A1** PRSS PIPING - L2 (Anno) - Callout 1  
SCALE: 1/4" = 1'-0"



**A2** W&V - L2 (Anno) - Callout 2  
SCALE: 1/4" = 1'-0"



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ENLARGED PLUMBING PLANS

P-401  
ADDENDUM No. 2  
EXHIBIT 02

A. REFER TO DEMOLITION NOTES ON SHEET M-001.

KEYNOTES

1. REMOVE (2) CAST IRON SECTIONAL BOILERS, (2) BASE MOUNTED PUMPS AND THE CONTROLS COMPRESSOR AND AIR DRYER. REMOVE ALL HYDRONIC PIPING, REMOVE FLUES SERVING EACH BOILER AND THE COMBUSTION AIR DUCTS. REMOVE EXPANSION TANK.
2. NO DEMOLITION IN THE PLANETARIUM SPACE.
3. REMOVE EXHAUST FAN, GRILLES AND DUCTWORK OVER RESTROOM CEILING.
4. REMOVE ALL HVAC EQUIPMENT, PIPING, DUCTWORK AND CONTROLS PIPING.
5. REMOVE ALL HVAC EQUIPMENT, PIPING, DUCTWORK AND CONTROLS PIPING ABOVE CEILING. CASEWORK BELOW TO REMAIN. CARE MUST BE TAKEN TO PROTECT CASEWORK AND FURNITURE IN THE SPACE.
6. REMOVE ALL HVAC EQUIPMENT, PIPING, DUCTWORK AND CONTROLS PIPING ABOVE CEILING. PLUMBING FIXTURES BELOW TO REMAIN. CARE MUST BE TAKEN TO EXISTING PLUMBING FIXTURES IN THE SPACE.
7. EXISTING PLANETARIUM ROOFTOP UNIT TO BE CAREFULLY REMOVED AND REPLACED AS A PART OF THE RE-ROOFING PROCESS.
8. REMOVE EVAPORATIVE COOLING UNIT ON ROOF AND ALL DUCT, GRILLES AND FLEX DUCT ASSOCIATED WITH THE UNIT.
9. REMOVE HYDRONIC FAN COIL FROM ABOVE CEILING AND ALL DUCT, GRILLES AND FLEX DUCT ASSOCIATED WITH THE UNIT. REMOVE HYDRONIC PIPING COMPLETELY.
10. REMOVE EXHAUST FAN ON ROOF AND ALL DUCT, GRILLES AND FLEX DUCT ASSOCIATED WITH THE UNIT.
11. TYPICAL LAYOUT OF HVAC. EACH CLASSROOM IS SERVED BY AN EVAPORATIVE COOLER FOR COOLING AND A HYDRONIC FAN COIL FOR HEATING. HEATING WATER MAINS ARE INSTALLED IN CLASSROOMS TO BE REMOVED.
12. REMOVE APPROXIMATELY THIRTY FLOOR SUPPLY GRILLES IN CLASSROOM. COORDINATE FLOOR PATCHING WITH GENERAL CONTRACTOR.



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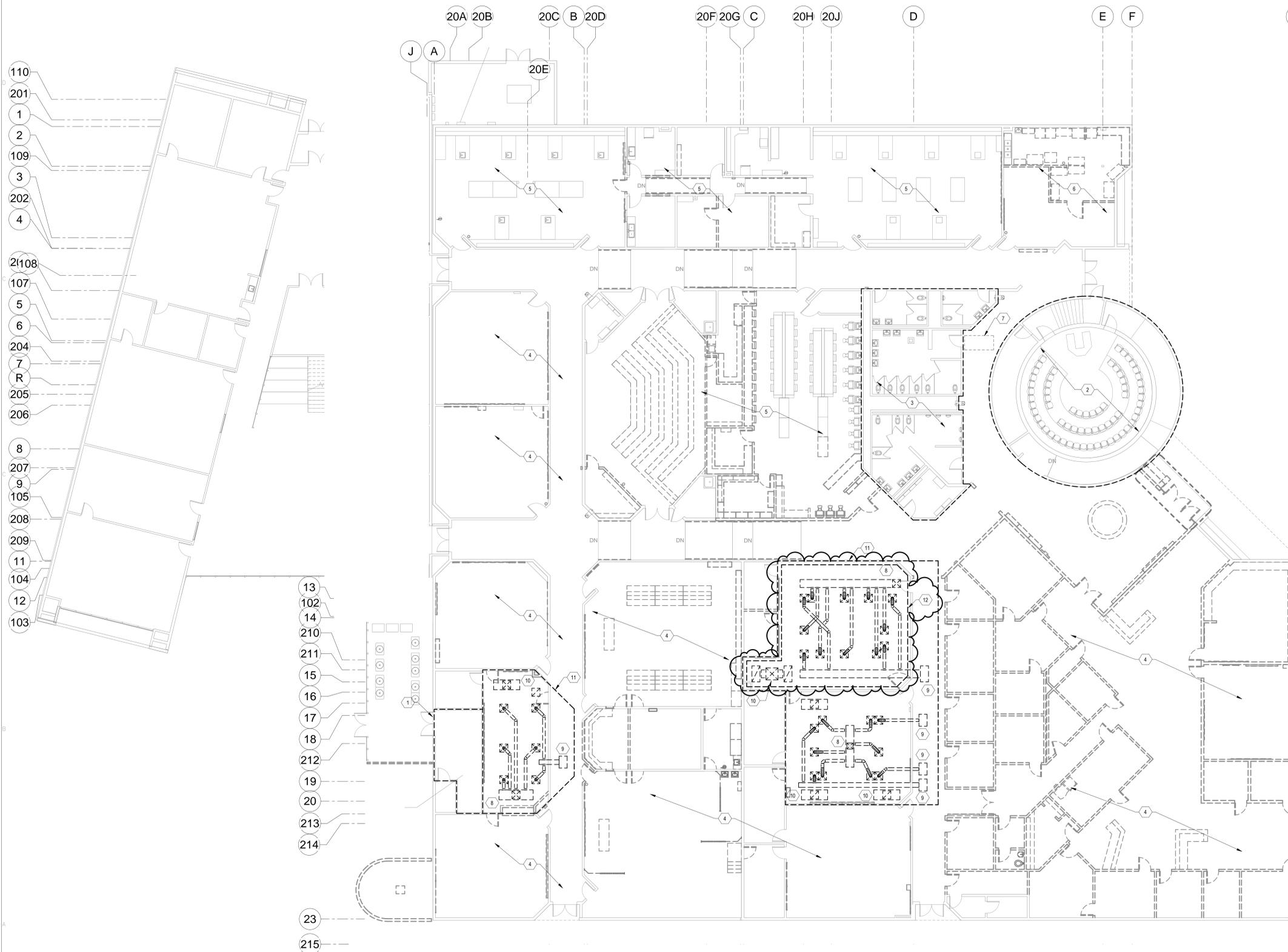
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MECHANICAL DEMOLITION FLOOR PLAN

MD101

ADDENDUM No. 2  
EXHIBIT 03



A1 MECHANICAL FOURTH FLOOR DEMOLITION PLAN  
MD101



GENERAL SHEET NOTES

- A. REFER TO GRILLE AND DIFFUSER DETAIL C4 ON SHEET M-501.
- B. REFER TO LOW PRESSURE DUCT FITTING DETAIL A4 ON SHEET M-501.

KEYNOTES

- 1. CEILING CONCEALED FAN COIL UNIT SUSPENDED FROM STRUCTURE. PROVIDE BALANCING DAMPER ON VENTILATION DUCT AND BALANCE TO THE AIRFLOW SHOWN ON THE FAN COIL SCHEDULE. SEE DETAIL C2 ON SHEET M-501.
- 2. WALL MOUNTED AIR HANDLING UNIT ABOVE DOOR. PROVIDE AND INTERLOCK CONDENSATE PUMP. PROVIDE WALL CONCEALMENT CHANNEL FOR REFRIGERANT PIPING AND CONDENSATE PUMP. PROVIDE WIRED THERMOSTAT.
- 3. HEAT RECOVERY HEAT PUMP CONDENSING UNIT ON RECTORSAL BIGFOOT STAND SYSTEM. ALL PIPING SHALL BE PROTECTED FROM PEDESTRIAN TRAFFIC.
- 4. EXHAUST DUCT UP TO DOWNBLAST FAN ON ROOF. PROVIDE 24" ROOF CURB.
- 5. CABINET EXHAUST FAN SERVING JANITORS CLOSET. PROVIDE 6" ROUND DUCT UP THROUGH ROOF AND TERMINATE WITH GOOSENECK. PROVIDE BIRDSCREEN.
- 6. UNIT HEATER SUSPENDED FROM WALL FRAMING. PROVIDE FACTORY WALL BRACKET AND UNIT MOUNTED CONTROLS.
- 7. TRANSFER AIR ELBOW SUSPENDED FROM STRUCTURE. REFER TO M-501 FOR DETAIL.
- 8. 6" GALVANIZED DRYER VENT UP THROUGH ROOF. TERMINATE WITH GOOSENECK 14" ABOVE ROOF AND PROVIDE BIRD SCREEN.
- 9. 6" GALVANIZED EXHAUST DUCT UP THROUGH ROOF. TERMINATE WITH GOOSENECK 14" ABOVE ROOF AND PROVIDE BIRD SCREEN.
- 10. CEILING EXHAUST FAN SUSPENDED FROM STRUCTURE.
- 11. 4" GALVANIZED EXHAUST DUCT TO WATER HEATER. TERMINATE AS SHOWN WITH WATERCAP.
- 12. 32X16 DUCT MAIN AND 18X14 VENTILATION DUCT SHALL HAVE 1" ACOUSTIC LINER.

CHERRY/SEE/REAMES ARCHITECTS, PC  
505 - 842 - 1278 fax 505 - 766 - 9269  
www.cherryseereames.com



4600 C Montgomery Blvd. NE  
Albuquerque, NM 87109  
505.853.4111 www.bpcr.com



ECA @ CEC Modernization,  
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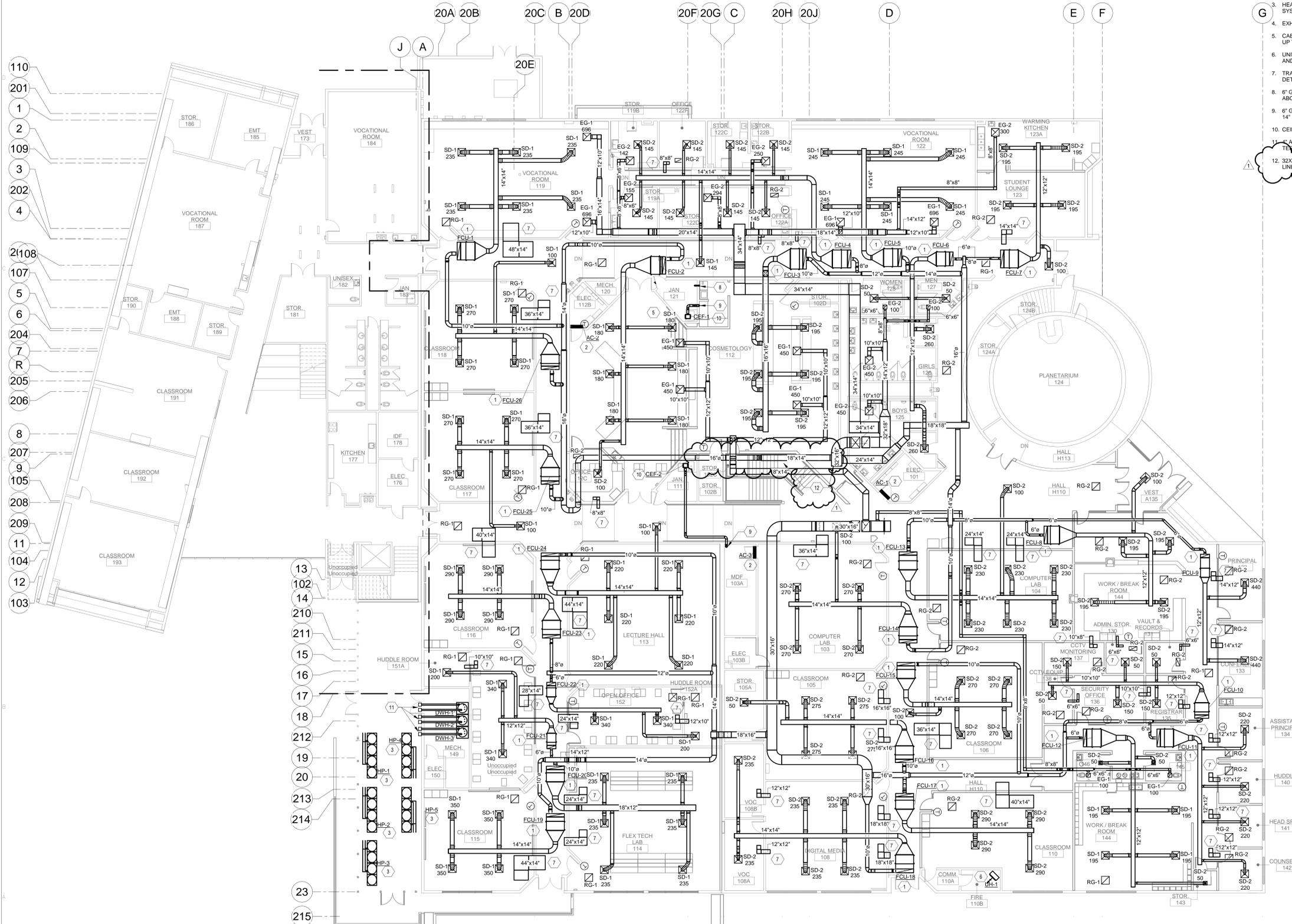
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HVAC FLOOR PLAN

MH101  
ADDENDUM No. 2  
EXHIBIT 04



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J A

20E

A1 HVAC FLOOR PLAN  
MH101

0' 5' 10' 20' SCALE 3/32" = 1'-0"

GENERAL SHEET NOTES

- A. IT WILL BE THE CONTRACTOR'S OBLIGATION TO INCLUDE, IN THEIR BID, THE COSTS FOR INSTALLING JUNCTION BOXES, PROVIDING MISCELLANEOUS COVERS, WORK WITH OTHER DISCIPLINES WHERE THE CONTRACT INVOLVES ELECTRICAL POWER OR CONTROL CONNECTIONS, SWITCHES, ETC. ALL OF THIS WORK SHALL BE PART OF THIS CONTRACT.
- B. LOCATION OF EQUIPMENT AND OTHER DEVICES SHOWN ON THE PLANS ARE APPROXIMATE AND SHALL BE FIELD VERIFIED.
- C. THE CONDUIT RUNS, AS SHOWN ON PLANS, INDICATE APPROXIMATE ROUTING. EXACT LOCATION OF CONDUIT RUNS SHALL BE AS FIELD CONDITIONS DICTATE.
- D. CONTRACTOR SHALL INSTALL PULL AND JUNCTION BOXES WHEREVER REQUIRED BY N.E.C. OR JOB CONDITIONS. ALL NEW WIRING SHALL BE TAGGED AT ALL PULL BOXES, JUNCTION BOXES, EQUIPMENT BOXES AND CABINETS WITH APPROVED PLASTIC TAGS. ACTION CRAFT, BRADY OR APPROVED EQUAL.
- E. THE CONTRACTOR SHALL INSTALL THE TIE HANDLES OR MULTI-POLE BREAKERS FOR ALL CIRCUITS SHARING A NEUTRAL CONDUCTOR.
- F. SHOULD CONTRACTOR AT ANY TIME NOTICE THAT THE ACTUAL FIELD CONDITIONS DO NOT CORRESPOND TO THE INFORMATION GIVEN ON THE DRAWINGS, THEN IT WILL BE THEIR RESPONSIBILITY TO NOTIFY THE ENGINEER FOR CLARIFICATION, PRIOR TO COMMENCING SUCH WORK.
- G. REMOVE AND INSTALL CEILING SUPPORTS AND TILES AS REQUIRED FOR THE COMPLETION OF THIS PROJECT. THIS CONTRACTOR SHALL INCLUDE REPLACEMENT OF CEILING TILES DAMAGED IN THE PROCESS OF THIS INSTALLATION WITH NEW MATCHING TILES. THE SAME APPLIES TO DAMAGE DONE TO OTHER KINDS OF CEILING.
- H. CONTRACTOR SHALL MAKE AS-BUILT DRAWINGS DOCUMENTING ANY AND ALL WIRING AND EQUIPMENT CONDITIONS AND CHANGES WHILE COMPLETING THIS CONTRACT. PROVIDE UPDATED TYPED DIRECTORIES FOR ALL PANELS AND LABEL ALL PANELS WITH PLASTIC LAMINATED NAMEPLATES.
- I. INSTALL BLANK DEVICE PLATES ON ALL UNUSED JUNCTION BOXES IN FINISHED AREAS.
- J. REFER TO POWER PLANS FOR DETAILED LAYOUTS OF ELECTRICAL GEAR.
- K. WHEREVER REQUIRED, FURNISH AND INSTALL ON WALL OR CEILING FREESTANDING UNISTRUT CHANNELS, ANGLE IRONS OR ANY OTHER SUPPORT STRUCTURE WITH THREADED ROD HANGERS AS REQUIRED FOR THE SUPPORT OF ELECTRICAL EQUIPMENT OF ANY KIND TO ENSURE PROPER INSTALLATION.
- L. ALL HOME RUN CIRCUITING TO PANELS SHALL BE 75' CONDUIT, MINIMUM.
- M. MOUNTING HEIGHTS INDICATED ON THE DRAWINGS ARE APPROXIMATE. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH OTHER TRADES FOR EXACT HEIGHT REQUIRED. THIS REQUIREMENT ALSO APPLIES TO THE LOCATION OF WALL BOXES FOR HVAC SENSORS, T-STATS, ETC. ANY THIS NOTE APPLIES TO ALL ELECTRICAL SHEETS IN THESE DRAWINGS; OUTLET DEVICES THAT HAVE TO BE RELOCATED DUE TO COUNTERTOP, CHALKBOARD, TACKBOARD, TYPE CONFLICTS WILL BE DONE AT NO ADDITIONAL COST TO THE OWNER.
- N. ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL BE SEALED WITH FIRE STOPPING, IE. 3M BRAND CALK, PUTTY, STRIP AND SHEET FORMS, DOW CORNERING 3-6548 SILICONE RTV FOAM
- O. ALL LOW VOLTAGE CONDUCTORS SHALL BE RAN IN SEPARATE RACEWAYS AS POWER CONDUCTORS (120VAC OR HIGHER PHASE TO NEUTRAL), NO EXCEPTIONS.
- P. PHASE SEQUENCING SHALL BE PROVIDED AND MAINTAINED THROUGHOUT THE ELECTRICAL DISTRIBUTION SYSTEM PER APS STANDARDS.

KEYNOTES

- 1. PROVIDE AND INSTALL CEILING MOUNTED OCCUPANCY SENSOR. SET TIME FOR 15 MINUTES. REFER TO LIGHTING CONTROL SEQUENCE OF OPERATION.
- 2. INDICATES PHOTOSENSOR IN CEILING. PROGRAM TO MAINTAIN 50 FC'S IN ASSOCIATED CLASSROOM. REFER TO CONTROL DIAGRAMS AND LIGHTING CONTROL SEQUENCE OF OPERATION.
- 3. PROVIDE AND INSTALL CEILING MOUNTED INFRARED OCCUPANCY SENSOR. SET TIME FOR 10 MINS. REFER TO LIGHTING CONTRL SEQUENCE OF OPERATION.
- 4. COORDINATE MOUNTING HEIGHTS OF EMERGENCY FIXTURES IN CLASSROOMS AND OFFICES WITH ARCHITECTURAL TO AVOID CONFLICTS WITH TEACHING WALL EQUIPMENT.
- 5. PROVIDE KEVED MAINTENANCE SWITCH IN CLASSROOMS PER APS DESIGN STANDARDS.
- 6. PROVIDE KEVED MAINTENANCE SWITCH IN RESTROOMS PER APS DESIGN STANDARDS.
- 7. PROVIDE 0-10V DIMMING SWITCHES COMPATIBLE WITH LIGHTING FIXTURE MANUFACTURER AND KEVED OVERRIDE SWITCH. REFER TO LIGHTING CONTROL SEQUENCE OF OPERATION. REFER TO CLASSROOM SWITCHBANK DETAIL FOR ADDITIONAL REQUIREMENTS OF ASSOCIATED SWITCHING.
- 8. CONNECT CORRIDOR LIGHTING THROUGH LIGHTING CONTROL RELAY PANEL. SEE LIGHTING CONTROL SEQUENCE OF OPERATION AND CONTROL DIAGRAM.
- 9. CONNECT EXTERIOR LIGHTING THROUGH NEW RELAY LIGHTING CONTROLLER. REFER TO CONTROL DIAGRAMS AND LIGHTING CONTROL SEQUENCE OF OPERATION.
- 10. EMERGENCY FIXTURE MOUNTED 8" ABOVE STAIRWELL STEP.
- 11. EMERGENCY FIXTURE MOUNTED TO CEILING ABOVE STAIRWELL LANDING.
- 12. PROVIDE EACH ROW OF FIXTURES WITH AN INDIVIDUAL REMOTE DRIVER IN NEMA 1 ENCLOSURE SIZED PER MANUFACTURER. DRIVER TO BE LOCATED INSIDE CORRIDOR ON WALL ABOVE CEILING. COORDINATE EXACT LOCATION PER ARCHITECTURAL DETAILS. PAINT PER ARCHITECT'S INSTRUCTIONS.

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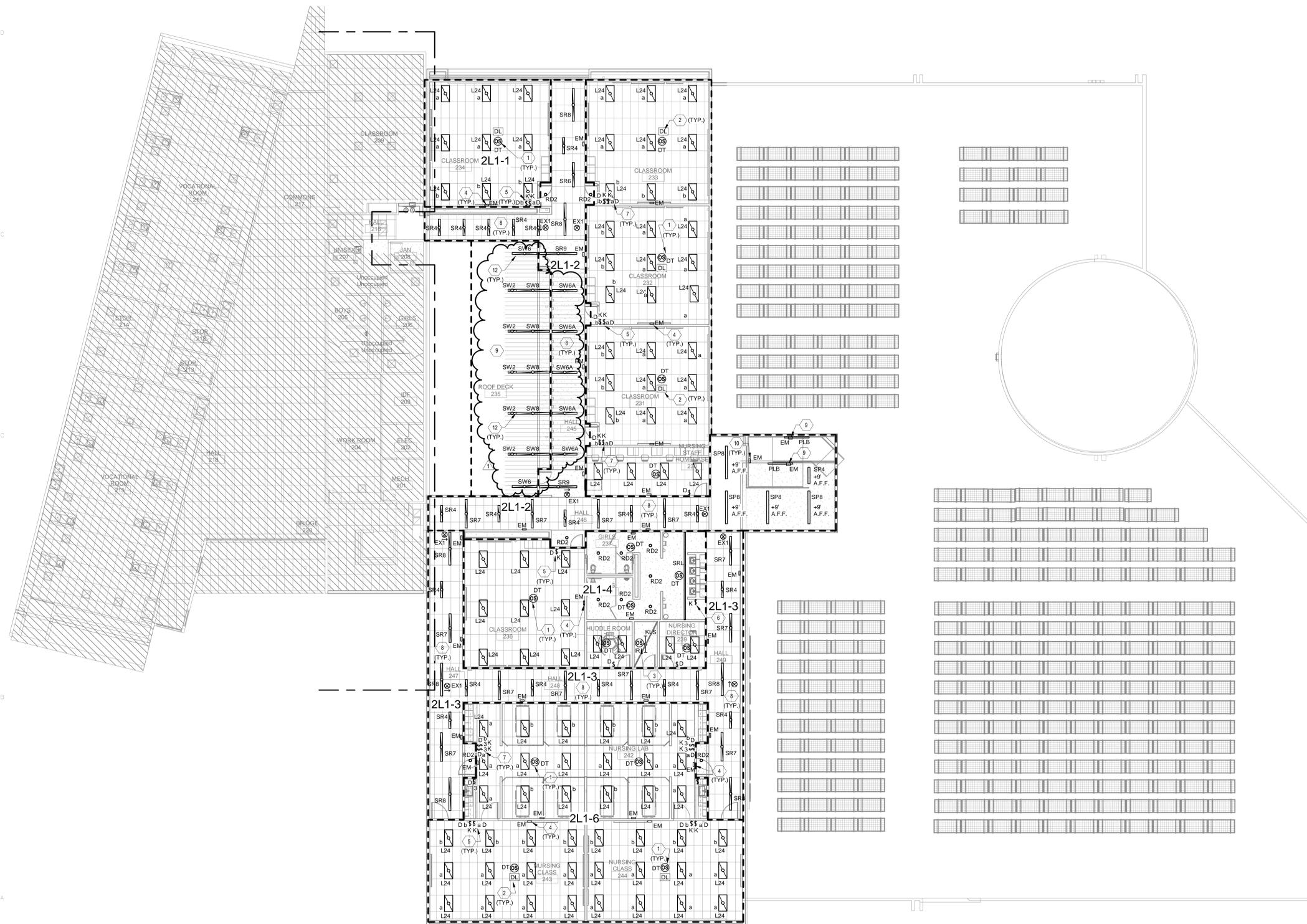
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1	02/05/2021	ADDENDUM #2
	01/11/2021	100% CD

MANAGEMENT BLOCK

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CAD DWG FILE:  
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LIGHTING SECOND FLOOR PLAN

EL102  
ADDENDUM No. 2  
EXHIBIT 05



0' 5' 10' 20' SCALE 3/32" = 1'-0"



A1  
EL102

LIGHTING FLOOR PLAN - LEVEL 2

GENERAL SHEET NOTES

- A. CONTRACTOR SHALL INSTALL PULL AND JUNCTION BOXES WHEREVER REQUIRED BY I.E.C. OR JOB CONDITIONS. ALL NEW WIRING SHALL BE TAGGED AT ALL PULL BOXES, JUNCTION BOXES, EQUIPMENT BOXES AND CABINETS WITH APPROVED PLASTIC TAGS. ACTION CRAFT, BRADY OR APPROVED EQUAL.
- B. THE CONTRACTOR SHALL INSTALL TIE HANDLES OR MULTI-POLE BREAKERS FOR ALL CIRCUITS SHARING A NEUTRAL CONDUCTOR.
- C. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH ALL TRADES FOR THE EXACT LOCATION OF EQUIPMENT AND APPURTENANCES THAT REQUIRE ELECTRICAL CONNECTIONS AND PROVIDE ALIGNMENT OF DEVICES.
- D. ALL HOME RUN CIRCUITING TO PANELS SHALL BE .75" CONDUIT, MINIMUM.
- E. MOUNTING HEIGHTS INDICATED ON THE DRAWINGS ARE APPROXIMATE. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH OTHER TRADES FOR EXACT HEIGHT REQUIRED. THIS REQUIREMENT ALSO APPLIES TO THE LOCATION OF WALL BOXES FOR HVAC SENSORS, T-STATS, ETC. ANY THIS NOTE APPLIES TO ALL ELECTRICAL SHEETS IN THESE DRAWINGS. OUTLET DEVICES THAT HAVE TO BE RELOCATED DUE TO COUNTERTOP, CHALKBOARD, TACKBOARD, TYPE CONFLICTS WILL BE DONE AT NO ADDITIONAL COST TO THE OWNER. ALIGNMENT OF ALL DEVICES SHALL BE COORDINATE IN THE FIELD SO THAT ALL DEVICES SHARE A COMMON MOUNTING PLANE.
- F. ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL BE SEALED WITH FIRE STOPPING, IE .3M BRAND CAULK, PUTTY, STRIP AND SHEET FORMS, DOW CORNERING 3-8545 SILICONE RTV FOAM
- G. ALL LOW VOLTAGE CONDUCTORS SHALL BE RAN IN SEPARATE RACEWAYS AS POWER CONDUCTORS (120VAC OR HIGHER PHASE TO NEUTRAL), NO EXCEPTIONS.
- H. PHASE SEQUENCING SHALL BE PROVIDED AND MAINTAINED THROUGHOUT THE ELECTRICAL DISTRIBUTION SYSTEM. PHASE ARRANGEMENT ON 3-PHASE BUSES SHALL BE A,B,C FROM FRONT TO BACK; TOP TO BOTTOM, OR LEFT TO RIGHT AS VIEWED FROM THE FRONT OF THE SWITCHBOARD OR PANEL BOARD. (PHASE A SHALL BE MAINTAINED AS PHASE A FROM THE DISTRIBUTION TRANSFORMER TO EACH PANEL BOARD OR SWITCHBOARD).
- I. ALL BRANCH AND FEEDER CIRCUIT WIRING SHALL BE COLOR CODED THROUGHOUT THE ENTIRE ELECTRICAL DISTRIBUTION SYSTEM.

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KEYNOTES

1. PROVIDE OUTLETS IN BED HEAD BOARD. REFER TO ARCHITECTURAL ELEVATION FOR OUTLET DETAIL AND REQUIREMENTS.

KEYPLAN



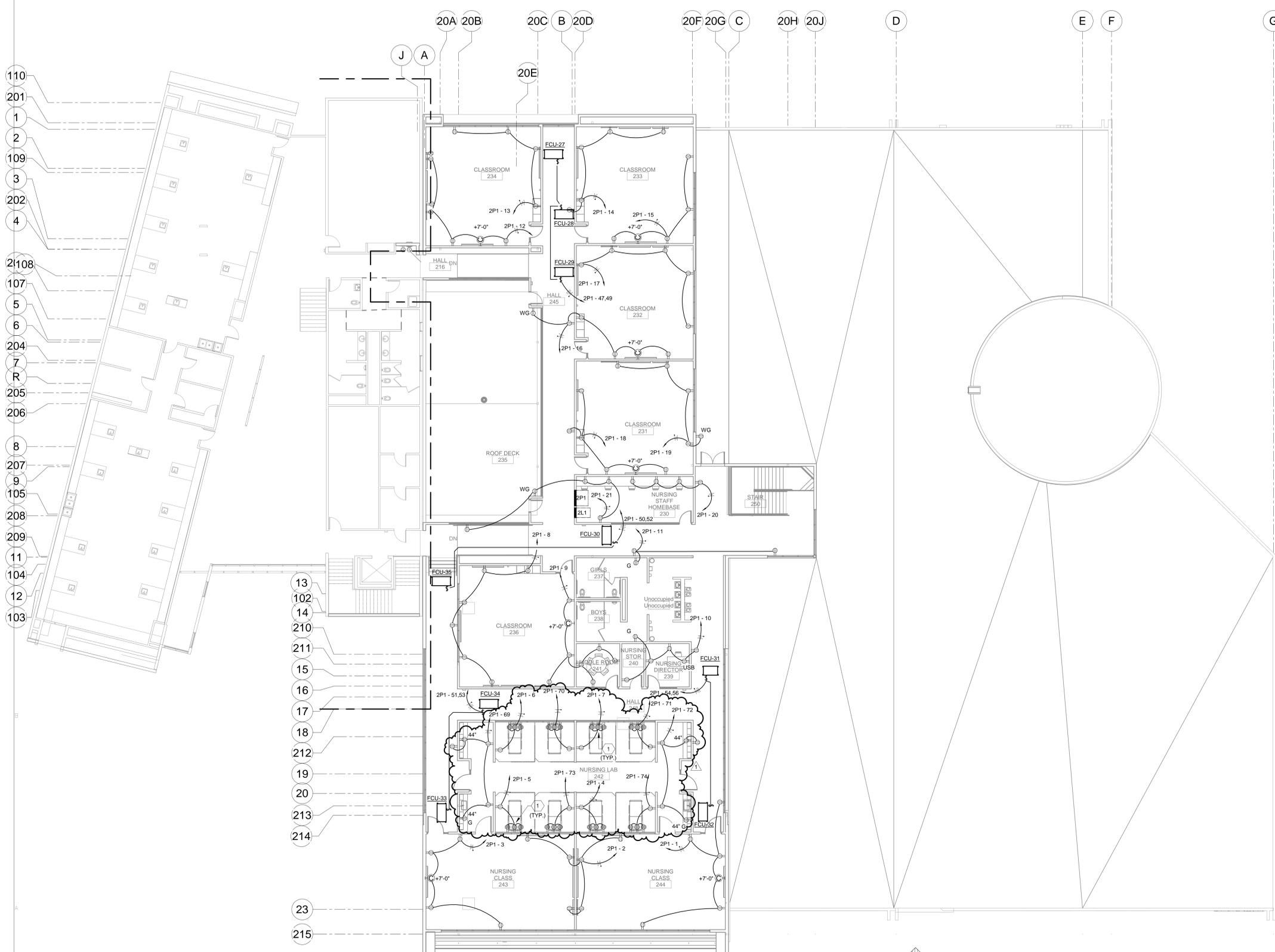
MARK	DATE	DESCRIPTION
1	02/05/2021	ADDENDUM #2
	01/11/2021	100% CD

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POWER SECOND FLOOR PLAN

EP102  
ADDENDUM No. 2  
EXHIBIT 06



A1 POWER FLOOR PLAN - LEVEL 2  
EP102



**Switchboard: MDS**

Location: Space 200  
 Supply From: PNM XFRMR  
 Mounting: PAD/WALL  
 Enclosure: NEMA 3R

Volts: 480/277 Wye  
 Phases: 3  
 Wires: 4

A.I.C. Rating: 65 KAIC  
 Mains Type: MCB  
 Mains Rating: 2000 A  
 MCB Rating: 2000 A

Notes:

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Remarks
1	ERV-1	3	20 A	20 A	10304 VA	
2	ZL1	3	100 A	100 A	213467 VA	
3	ERV-3	3	20 A	20 A	10304 VA	
4	ERV-2	3	20 A	20 A	10304 VA	
5	EXISTING PANEL "MD"	3	800 A	800 A	737500 VA	
6	EXISTING PANEL "MDP"	3	600 A	600 A	391250 VA	
7	SPD	3	100 A	80 A		
8	SPACE	3	225 A			
9	SPACE	3	225 A			
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
<b>Total Conn. Load:</b>					1373129 VA	
<b>Total Amps:</b>					1652 A	

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Other	0 VA	0.00%	0 VA	
LTG	5711 VA	125.00%	7139 VA	<b>Total Conn. Load:</b> 1373129 VA
REC	41100 VA	62.17%	25550 VA	<b>Total Est. Demand:</b> 1369007 VA
MTR	1153446 VA	100.00%	1153446 VA	<b>Total Conn. Current:</b> 1652 A
	172872 VA	100.00%	172872 VA	<b>Total Est. Demand Current:</b> 1635 A

Notes:

**LUMINAIRE SCHEDULE NOTES:**

- MANUFACTURERS CATALOG NUMBERS REPRESENT MANUFACTURER SERIES. SHOP DRAWING SUBMITTALS WILL INCLUDE ALL PART NUMBERS REPRESENTING ALL ITEMS OF THIS LUMINAIRE SCHEDULE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ORDER LUMINAIRES TO INCLUDE ALL PARTS INDICATED ON SCHEDULE FOR EACH LUMINAIRE. SUBMITTAL WILL CALL OUT EACH PART CLEARLY.
- LUMINAIRE REQUIRES MOUNTING COORDINATION WITH ARCHITECT PRIOR TO COMMENCEMENT OF ANY WORK. THIS LUMINAIRE MAY REQUIRE A HIGHER OR LOWER MOUNTING FROM THAT PROVIDED ON THIS SCHEDULE OR NOTES ON ARCHITECTURAL REQUIREMENTS OR CONSTRUCTION CONDITIONS.
- ALL LUMINAIRES ON THIS LUMINAIRE SCHEDULED ARE APPROVED FOR BID ON THIS PROJECT. IF A LUMINAIRE IS SUBMITTED THAT IS NOT ON THIS SCHEDULE IT WILL BE REJECTED.

**ELECTRICAL LUMINAIRE SCHEDULE**

Type	DESCRIPTION	MOUNTING	VOLTS	MANUFACTURER / MODEL	LUMEN OUTPUT	COLOR TEMP (K)	Apparent Load	NOTES
EM	EMERGENCY LED FIXTURE	WALL MOUNTED	277 VOLTS	DUAL LITE #EV 4 I	0	0	12 VA	
EX1	UNIVERSAL MOUNTED LED EXIT FIXTURE	UNIVERSAL	277 VOLTS	DUAL LITE #EVE-U-R-W-E-I	0	0	13 VA	
KLS	4' STRIPLIGHT LED LENSED	SURFACE/HUNG	277 VOLTS	COLUMBIA #LCL 4 35 ML E	5000	35	48 VA	
L22	2X2 LAY-IN/RECESSED LED FIXTURE - ARCH. GULLWING	LAY-IN/RECESSED	277 VOLTS	FOCAL POINT #FAML 22 ACR 4000HL / 35K 1C UNV / LD1	4000	35	32 VA	
L24	2X4 LAY-IN/RECESSED LED FIXTURE - ARCH. GULLWING	LAY-IN/RECESSED	277 VOLTS	FOCAL POINT #FAML 24 ACR 4000L / 35K 1C UNV / LD1	4000	35	43 VA	
M24	GASKETED 2X4 LAY-IN/RECESSED LED FIXTURE - ARCH. GULLWING	LAY-IN/RECESSED	277 VOLTS	COLUMBIA #LJT 24-35LW-FAA12-EDU-G1FK24	4000	35	43 VA	
PLB	6' LINEAR LED WALL MOUNTED FIXTURE FLUSHED LENS	WALL MOUNTED	277 VOLTS	FOAL POINT #FSM4BW FLFL 625DN 375UP 35K 1C UNV LD1 WM WH 6'	3750		25 VA	
RD2	4.5" SQUARE RECESSED LED DOWN LIGHT MED OUTPUT	RECESSED	277 VOLTS	FOCAL POINT #FLC44D ST 1500L / 277V LD1 T	1500	35	19 VA	
SP4	4' LINEAR LED PENDANT MOUNTED FIXTURE	PENDANT	277 VOLTS	ORACLE #OLS-D-LED-2-S-W4-750L-DIM10MVOLT-35K-90-WH	2500	35	30 VA	
SP8	8' LINEAR LED PENDANT MOUNTED FIXTURE	PENDANT	277 VOLTS	ORACLE #OLS-D-LED-2-S-W8-750L-DIM10MVOLT-35K-90-WH	5000	35	30 VA	
SR4	4' LINEAR LED RECESSED MOUNTED FIXTURE	LAY-IN/RECESSED	277 VOLTS	ORACLE #OLS-R-LED-2-S-4-500L-DIM10-MVOLT-35K-90-WH	2000	35	13 VA	
SR6	6' LINEAR LED RECESSED MOUNTED FIXTURE	LAY-IN/RECESSED	277 VOLTS	ORACLE #OLS-R-LED-2-S-6-500L-DIM10-MVOLT-35K-90-WH	3000	35	19 VA	
SR7	7' LINEAR LED RECESSED MOUNTED FIXTURE	LAY-IN/RECESSED	277 VOLTS	ORACLE #OLS-R-LED-2-CR-7-500L-DIM10-MVOLT-35K-90-WH	3500	35	20 VA	
SR8	8' LINEAR LED RECESSED MOUNTED FIXTURE	LAY-IN/RECESSED	277 VOLTS	ORACLE #OLS-R-LED-2-S-8-500L-DIM10-MVOLT-35K-90-WH	4000	35	30 VA	
SR9	9' LINEAR LED RECESSED MOUNTED FIXTURE	LAY-IN/RECESSED	277 VOLTS	ORACLE #OLS-R-LED-2-CR-9-500L-DIM10-MVOLT-35K-90-WH	4500	35	35 VA	
SRL	LINEAR LED RECESSED FIXTURE - LENGTH PER PLAN FLUSHED LENS	LAY-IN/RECESSED	277 VOLTS	ORACLE #OLS-R-LED-2-CR--500L-DIM10-MVOLT-35K-90-WH	2250	35	35 VA	
SW2	2' LINEAR EXTERIOR LED RECESSED MOUNTED FIXTURE	SURFACE	277 VOLTS	SONARAY #LB-4-060-S-N-F-6-30-BLK-U	1750	35	10 VA	
SW6	6' LINEAR EXTERIOR LED RECESSED MOUNTED FIXTURE	SURFACE	277 VOLTS	SONARAY #LB-4-060-L-N-F-8-30-BLK-U	3000	35	20 VA	
SW6A	6' LINEAR LED RECESSED MOUNTED FIXTURE	LAY-IN/RECESSED	277 VOLTS	SONARAY #LB-4-060-L-N-F-8-30-BLK-U	3000	35	19 VA	
SW8	8' LINEAR EXTERIOR LED RECESSED MOUNTED FIXTURE	SURFACE	277 VOLTS	SONARAY #LB-4-060-XL-N-F-8-30-BLK-U	3000	35	20 VA	

**Branch Panel: CP1**

Location: ELEC 103B  
 Supply From: TOP1  
 Mounting: Surface  
 Enclosure: Type 1

Volts: 120/208 Wye  
 Phases: 3  
 Wires: 4  
 Spaces: 84

A.I.C. Rating: 10 KAIC  
 Mains Type: MCB  
 Mains Rating: 225 A  
 MCB Rating: 225 A

Notes:

CKT	Circuit Description	Notes	Trip	Poles	A	B	C	Poles	Trip	Notes	Circuit Description	CKT
1	REC		20 A	1	720 VA	180 VA		1	20 A		REC	2
3	REC		20 A	1		600 VA	600 VA	1	20 A		REC	4
5	REC		20 A	1			600 VA	360 VA	1	20 A	REC	6
7	REC		20 A	1	600 VA	600 VA			1	20 A	REC	8
9	REC		20 A	1		360 VA	600 VA		1	20 A	REC	10
11	REC		20 A	1			600 VA	900 VA	1	20 A	REC	12
13	REC		20 A	1	900 VA	900 VA			1	20 A	REC	14
15	REC		20 A	1		900 VA	900 VA		1	20 A	REC	16
17	REC		20 A	1			900 VA	900 VA	1	20 A	REC	18
19	REC		20 A	1	900 VA	900 VA			1	20 A	REC	20
21	REC		20 A	1		900 VA	900 VA		1	20 A	REC	22
23	REC		20 A	1			900 VA	900 VA	1	20 A	REC	24
25	Spare		20 A	1	0 VA							26
27	Spare		20 A	1	0 VA							28
29	Spare		20 A	1	0 VA		0 VA					30
31	Spare		20 A	1	0 VA							32
33	Spare		20 A	1	0 VA		0 VA					34
35	Spare		20 A	1	0 VA			0 VA				36
37	2P1		225 A	3	1887...							38
39	--		--	--		1923...						40
41	--		--	--			1916...					42
<b>Total Load:</b>					24576 VA	24996 VA	25224 VA					
<b>Total Amps:</b>					205 A	209 A	211 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
NC	24696 VA	100.00%	24696 VA	
MTR	9000 VA	100.00%	9000 VA	<b>Total Conn. Load:</b> 74796 VA
REC	41100 VA	62.17%	25550 VA	<b>Total Est. Demand:</b> 59246 VA
				<b>Total Conn. Current:</b> 208 A
				<b>Total Est. Demand Current:</b> 164 A

Notes:

**Branch Panel: 2L1**

Location: NURSING STAFF HOMEBASE...  
 Supply From: MDS  
 Mounting: Recessed  
 Enclosure: Type 1

Volts: 480/277 Wye  
 Phases: 3  
 Wires: 4  
 Spaces: 42

A.I.C. Rating: 35 KAIC  
 Mains Type: MLO  
 Mains Rating: 400 A  
 MCB Rating: N/A

Notes:

CKT	Circuit Description	Notes	Trip	Poles	A	B	C	Poles	Trip	Notes	Circuit Description	CKT
1	LTG NURSING STAFF HOMEBASE 230		20 A	1	1720...	748 VA		1	20 A		LTG HALL 246	2
3	LTG HALL 249		20 A	1		472 VA	775 VA		1	20 A	LTG CLASS ROOM 236	4
5	LTG ROOF TOP DECK 235		20 A	1			190 VA	1806...	1	20 A	LTG NURSING LAB 242	6
7	HP-4		30 A	3	4432...	4432...			3	25 A	HP-5	8
9	--		--	--		4432...	4432...		--	--	--	10
11	--		--	--			4432...	4432...	--	--	--	12
13	HP-4		25 A	3	4432...	4432...			3	25 A	HP-5	14
15	--		--	--		4432...	4432...		--	--	--	16
17	--		--	--			4432...	4432...	--	--	--	18
19	HP-1		30 A	3	4432...	4432...			3	30 A	HP-2	20
21	--		--	--		4432...	4432...		--	--	--	22
23	--		--	--			4432...	4432...	--	--	--	24
25	HP-1		25 A	3	4432...	4432...			3	30 A	HP-2	26
27	--		--	--		4432...	4432...		--	--	--	28
29	--		--	--		4432...	4432...		--	--	--	30
31	Spare		20 A	1	0 VA	4432...			3	30 A	HP-3	32
33	Spare		20 A	1	0 VA		0 VA	4432...	--	--	--	34
35	Spare		20 A	1	0 VA		0 VA	4432...	--	--	--	36
37	PANEL "CP1"		150 A	3	2457...	4432...			3	25 A	HP-3	38
39	--		--	--		2499...	4432...		--	--	--	40
41	--		--	--			2522...	4432...	--	--	--	42
<b>Total Load:</b>					71364 VA	70563 VA	71540 VA					
<b>Total Amps:</b>					258 A	255 A	259 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Other	0 VA	0.00%	0 VA	
NC	24696 VA	100.00%	24696 VA	<b>Total Conn. Load:</b> 213467 VA
MTR	141960 VA	100.00%	141960 VA	<b>Total Est. Demand:</b> 199345 VA
REC	41100 VA	62.17%	25550 VA	<b>Total Conn. Current:</b> 257 A
LTG	5711 VA	125.00%	7139 VA	<b>Total Est. Demand Current:</b> 240 A

Notes:

**Branch Panel: 2P1**

Location: NURSING STAFF HOMEBASE...  
 Supply From: CP1  
 Mounting: Recessed  
 Enclosure: Type 1

Volts: 120/208 Wye  
 Phases: 3  
 Wires: 4  
 Spaces: 84

A.I.C. Rating: 10 KAIC  
 Mains Type: MLO  
 Mains Rating: 225 A

Notes:

CKT	Circuit Description	Notes	Trip	Poles	A	B	C	Poles	Trip	Notes	Circuit Description	CKT		
1	REC NURSING CLASS 244		20 A	1	1080...	1080...		1	20 A		REC NURSING CLASS 244	2		
3	REC NURSING CLASS 243		20 A	1		900 VA	1260...		1	20 A	REC NURSING LAB 242	4		
5	REC NURSING LAB 242		20 A	1			1260...	1260...	1	20 A	REC NURSING LAB 242	6		
7	REC NURSING LAB 242		20 A	1	1260...	1080...			1	20 A	REC CLASS ROOM 236	8		
9	REC CLASS ROOM 236		20 A	1		180 VA	1080...		1	20 A	REC HALL 249	10		
11	REC HALL 246		20 A	1			180 VA	900 VA	1	20 A	REC CLASS ROOM 234	12		
13	REC CLASS ROOM 234		20 A	1	720 VA	900 VA			1	20 A	REC CLASS ROOM 233	14		
15	REC CLASS ROOM 233		20 A	1		900 VA	1080...		1	20 A	REC HALL 245	16		
17	REC CLASS ROOM 232		20 A	1			900 VA	1080...	1	20 A	REC CLASS ROOM 231	18		
19	REC CLASS ROOM 231		20 A	1	900 VA	720 VA			1	20 A	REC HALL 246	20		
21	REC NURSING STAFF HOMEBASE 230		20 A	1		900 VA	1188...		2	20 A	FCU	22		
23	FCU		20 A	2			792 VA	1188...	--	--	--	24		
25	--		--	--		792 VA	792 VA		2	20 A	FCU	26		
27	FCU		20 A	2			1188...	792 VA	--	--	--	28		
29	--		--	--			1188...	792 VA	1188...	792 VA	2	20 A	FCU	30
31	FCU		20 A	2	1188...	792 VA			--	--	--	32		
33	--		--	--			1188...	792 VA	1188...	792 VA	2	20 A	FCU	34</