



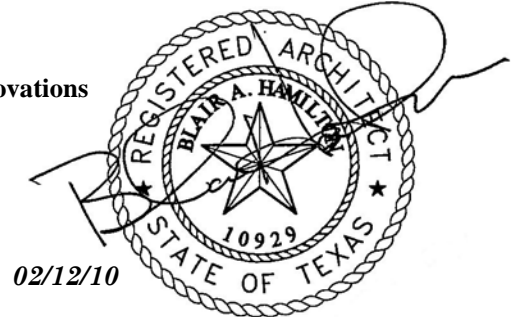
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**ADDENDUM NO. 03**  
February 12, 2010

Project: **Dickinson High School Additions and Renovations**  
Dickinson Independent School District

Issued by: Bay Architects, Inc.  
18201 Gulf Freeway  
Webster, TX 77598  
281-286-6605



Bay Project No.: 0743

Prepared for: Prospective Proposers. To be distributed by Bartlett-Cocke, Construction Manager.

**PART A: NOTICE TO PROPOSERS:**

1. Receipt of this Addendum shall be acknowledged on the Proposal Form. Failure to do so may subject Proposers to disqualification. Each proposer shall make necessary adjustments and submit his proposal with full knowledge of all modifications, clarification, and supplemental data included therein.
2. This Addendum forms part of the Contract Documents and shall be incorporated integrally therewith. Where provisions of the following supplemental data differ from those of previously issued documents, this Addendum shall govern.
3. The following Contract Documents have been issued to date delineating the Work (Project).

Contract Documents	January 22, 2010
Addendum No. 01	February 4, 2010
Addendum No. 02	February 10, 2010

4. This Addendum consists of nineteen (19) 8-1/2"x11" written pages; twenty-five (25) 8-1/2" x11" attached sketches, **ADD-03-01 thru ADD-03-25**; as prepared by Bay Architects and Kalmans, Marshall Engineers. Total pages: 44 pages

**PART B: CHANGES TO PRIOR ADDENDUM**

*"Any changes to prior issued addendum materials are listed here."*

5. None

**PART C: CHANGES TO THE PROJECT MANUAL**

6. Section 15408 – Soil, Waste and Sanitary Drain Piping, Vent Piping and Appurtenances
  - a. Delete Article 2.3. paragraph B. in its entirety.
7. Section 15622 – Air-Cooled Rotary Screw Chiller
  - a. Article 2.2. add paragraph C. Each compressor shall have a removable factory sound enclosure.

**PART D: CHANGES TO THE DRAWINGS**

8. Sheet M1.01 – Mechanical First Floor Plan – Area ‘A’
  - a. Refer to Sketch **ADD-03-01** for ductwork revisions
  - b. Refer to Sketch **ADD-03-02** for ductwork revisions
  
9. Sheet M1.04 – Mechanical First Floor Plan – Area ‘D’
  - a. LGI N002. Change eight supply grilles from 500 CFM to 550 CFM each.
  
10. Sheet M1.08 – Mechanical First Floor Plan – Area ‘F’
  - a. Locker Room N137. Provide F11 type return air grille with boot plenum. Locate in ceiling. Coordinate with lights, diffusers, etc.
  - b. Locker Room N140. Provide F11 type return air grille with boot plenum. Locate in ceiling. Coordinate with lights, diffusers, etc.
  
11. Sheet M1.12 – Mechanical Floor Plan – Unit ‘C’
  - a. Refer to Plan 1, Dining C110. See sketch **ADD-03-09** for revisions.
  - b. Refer to Plan 1, Dining C110. See sketch **ADD-03-10** for revisions.
  - c. Refer to Plan 1, Women C115. See sketch **ADD-03-11** for revisions.
  
12. Sheet M1.13 – Mechanical Floor Plan Unit ‘H’ 1<sup>st</sup> & 2<sup>nd</sup> Floors

Keyed Notes

  - a. Key Note #2 – Revise keyed note to read: PROVIDE 14” DIAMETER TYPE B-VENT FLUE PIPE FROM EACH BOILER TO FLUE PIPE HEADER. PROVIDE BAROMETRIC DAMPER AND STACK DAMPER FOR EACH 14” FLUE PIPE FROM BOILER. PROVIDE 16” DIAMETER TYPE B-VENT PIPE HEADER. ROUTE AS INDICATED ON PLANS.
  - b. Key Note #3 – Revise keyed note to read: PROVIDE EXHAUSTO MODULATING PRESSURE CONTROL EBC30, CO DETECTOR/MONITOR USD-CO, XTP SENSOR, CHIMNEY PROBE AND EXHAUSTO IPV350 POWER VENTER. EXHAUSTO MODULATING PRESSURE CONTROL EBC30 SHALL CONNECT TO THE FOLLOWING: DETECTOR/MONITOR USD-CO W/2 – 20 GAUGE WIRE; XTP SENSOR WITH XTP SENSOR CONTROL CIRCUIT 24VDC SHIELDED CABLE; EXHAUSTO IPV350 POWER VENTER WITH 120 VOLT WITH DEDICATED NEUTRAL INTERLOCK WITH EXISTING BOILERS WITH A MINIMUM OF 2 CONDUCTORS. XTR SENSOR SHALL CONNECT TO DUCT PROBE SENSOR WITH ¼” SILICONE TUBING. LOCATE DUCT PROBE PER MANUFACTURER’S RECOMMENDATIONS. LOCATE AND INSTALL EACH ITEM PER MANUFACTURER’S RECOMMENDATIONS.”
  
13. Sheet M1.14 – Mechanical First Floor Unit ‘P’
  - a. Garage P135. Route 12/12 supply air duct from 20/16 supply duct in band hall thru wall to garage P135 to E5 type diffuser. Provide fire damper in wall penetration and balance to 400 CFM.
  - b. Uniform Storage P133. Route ¾” condensate drain line to floor sink located in garage P135. Route high as possible horizontally along wall, down inside wall, punch out wall near sink and terminate.
  - c. Office P131. Delete 20X10 R/A opening in wall adjacent to large ensemble. Provide 12X10 R/A opening in wall adjacent to office P130.
  - d. Office P130. Provide 14X10 R/A opening in wall adjacent to P129.
  - e. Music Library and Sec. P129. Provide 20X10 R/A opening in wall adjacent to corridor. Provide fire damper in penetration.

- f. Large Ensemble P122. Remove 24X12 R/A opening in wall adjacent to Corridor P116. Provide two (2) 24/12 R/A internally lined transfer ducts (with elbows on both sides of wall) into corridor P121. Provide fire damper in both ducts.
  - g. Boys dressing P126. Provide motorized damper in EF-37.
  - h. Small Ensemble P108. Provide two 12/12 R/A internally lined transfer ducts (with elbows on both sides of wall) into corridor P101. Provide fire damper in both ducts.
  - i. Refer to Plan 2, Area 'S'. See sketch **ADD-03-12** for revisions.
14. Sheet M2.01 – Mechanical First Floor Enlarged Plans
- a. Mechanical N016A. See Sketch **ADD-03-03** for revisions to Mechanical Room.
  - b. Mechanical N026A. See Sketch **ADD-03-04** for revisions to Mechanical Room.
  - c. Mechanical N104, See Sketch **Add-03-05** for revisions to Mechanical Room.
15. Sheet M2.02 – Mechanical Central Plant Floor Plan
- a. Chiller yard. See Sketch **ADD-03-06** for Chiller and piping revisions.
  - b. Mechanical N128B. See Sketch **ADD-03-07** for Air handler and ductwork revisions.
  - c. Main Electrical N128A. Coordinate routing of chilled water lines to FCU-1 so that piping is not routed over Main switchboard.
16. Sheet M2.03 – Mechanical Second Floor Enlarged Plans
- a. Mechanical Room N206. Change to read “Mechanical Room N220.”
  - b. Mechanical Room N220. Offset 36/36 outside air duct up to OAI-12 as required to avoid structural beam.
17. Sheet M4.03 – Mechanical Details
- a. Refer to Sketch **ADD-03-08** for change to Detail.
18. Sheet M5.01 – Mechanical Schedules
- a. Refer to Packaged Air Cooled Chiller Schedule.
    - 1) “ACC-1” & “ACC-2” shall be renamed to “ACCU-1” & “ACCU-2.”
    - 2) “ACCU-1” & “ACCU-2” shall meet the following sound requirements:

Sound Pressure (at 30 feet) – Octave band at center frequency

Frequency	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Overall
Sound Power (db) (with insulation)	57	58	59	58	55	50	40	32	65

Sound Power – Octave band at center frequency

Frequency	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Overall
Sound Power (db) (with insulation)	87	88	90	88	85	80	71	63	95

- b. Refer to Pump Schedule
  - 1) “CWP-1” & “CWP-2” shall be renamed to “CHWP-1” & “CHWP-2.”
  - 2) Change GPM of CHWP-1 & CHWP-2 to 580 in lieu of 600.
- c. Refer to DX Air handling Unit Schedule
  - 1) AHU-19 and AHU-20 shall have a minimum of stages of cooling.
  - 2) Change Air Handling Unit #20 Supply CFM to 6,335.

d. Refer to Air Handling Unit schedule

1) Change Air Handling Unit Supply CFM to the following:

AHU-1	5500 CFM
AHU-2	4400 CFM
AHU-4	5580 CFM
AHU-5	4585 CFM
AHU-6	14740 CFM
AHU-7	8050 CFM
AHU-14	10690 CFM
AHU-15	9125 CFM
AHU-17	4730 CFM

2) Change AHU-8 horsepower to 10; change AHU-13 horsepower to 10 Hp.

3) Add hot water coil to AHU-1. Performance information as follows:

Ent. Air	Min. Cap (BTU/H)	Ent. Water Temp	GPM	Max P.D.
69.0 F	154440	160 F	15.4	10.0

4) Change Air Handling Unit Chilled Water GPM to the Following:

AHU-1	22.0 GPM
AHU-2	17.6 GPM
AHU-4	29.8 GPM
AHU-5	24.4 GPM
AHU-6	112.8 GPM
AHU-7	60.0 GPM
AHU-14	67.0 GPM
AHU-15	68.6 GPM
AHU-17	22.9 GPM

5) Change/Add pipe sizes to following Air Handling Units:

	CHW pipe size	HW pipe size
AHU-1	2"	1-1/2"
AHU-3	3"	-
AHU-6	4"	-
AHU-7	3"	-
AHU-8	3"	-
AHU-13	3"	-
AHU-14	3"	-
AHU-15	3"	-
AHU-16	3"	-

19. Sheet M5.02 – Mechanical Schedules

a. Refer to Constant Volume Terminal Box Schedule

1) Add CVB-06-19. Box shall have 700 supply CFM, 215 Min., 10" inlet, 1.9 GPM, 3/4" hot water branch connection.

2) Delete boxes CVB-07-01, CVB-07-10, CVB-08-12, and CVB-15-05 in their entirety.

3) Change constant volume boxes performance data to the following:

Mark	Max. CFM	Min. CFM	Inlet Size	Elec.	GPM	Conn. Pipe Size
CVB-07-02	350	100	6"	277/1/60	1.0	3/4"
CVB-07-04	600	215	8"	277/1/60	1.8	3/4"
CVB-08-10	1190	280	12"	277/1/60	3.1	1"

CVB-14-07	900	235	10"	277/1/60	2.4	3/4"
CVB-14-08	960	250	10"	277/1/60	2.6	3/4"
CVB-14-09	1425	315	12"	277/1/60	3.8	1"
CVB-15-01	900	245	10"	277/1/60	2.4	3/4"

20. Sheet M5.03 – Mechanical Schedules

a. Refer to Fan Schedule

- 1) Delete Exhaust fans EF-11, 13, 20, 24, 28, and 31 in their entirety.
- 2) Delete Supply fans SF-11, 12, 13, 14, 15, and 16 in their entirety.
- 3) Change EF-27 to Inline type Greenheck model BSQ, 1/3 HP, 120/1/60, 1000 max. RPM, 0.45" E.S.P. Fan shall be interlocked with AHU-17. Remarks 2 & 5 shall apply to this fan.

21. Sheet E1.01 Electrical Site Plan

- a. Move pad mounted transformer in service yard to southeast corner of yard.

22. Sheet E2.01 Electrical Lighting Plan 1<sup>st</sup> & 2<sup>nd</sup> Floors, Unit N Area A

a. Detail #1 Electrical Lighting Plan 1<sup>st</sup> Floor Unit N, Area A

- 1) At Column Line A.3 along Column Lines 22, 27, 29 and 32, change the light fixtures from Circuit IHA-3 to Circuit EH2-41.
- 2) Booster Store N022, change the Keyed Switch to a standard toggle switch. Change the three A1 Type Light Fixtures to Type A4; change the A1E Type Light Fixture to A4E.
- 3) Family Restroom N024, change the Keyed Switch to a standard toggle switch.
- 4) At Column Line 11, delete the two Type F fixtures shown on the inside of the column at Column Lines A.3 and A.7. At Column Line 42, delete the Type F fixture shown on the inside of the columns at Column Lines A.3 and A.7.

b. Detail #2 Electrical Lighting Plan 2<sup>nd</sup> Floor Unit N, Area A,

- 1) Lobby N019, add 14 additional Type J Fixtures to form continuous row. Connect to Circuit IHA-15.

23. Sheet E2.02 Electrical Lighting Plan Unit N, Area B

- a. Delete the two rows of Type M Light Fixtures shown.
- b. Between the first fixture of each row and the south wall, add one Type M Light Fixture, five total. Between the last fixture at the end of each row and the north wall, add one Type M Light Fixture, five total. At the first row of Type L2 Light Fixtures, add one Type M Light Fixture between each of the L2 Fixtures, six total.
- c. Delete the references to Switches A-E. Route circuits to HA-47, 49 and 51 through a lighting contactor to create Zone A. Control Zone A contactor with one standard toggle switch and one bi-level switch. Locate switches in Gymnasium Control Panel. Route circuits 2HA 53 and 2HA55 through a lighting contactor to create Zone B. Control Zone B contactor with one standard toggle switch and one bi-level switch located in Gymnasium Control Panel.
- d. Connect all Type M Fixtures to Circuit EH2-21 and control with single pole toggle switch. Delete two pole switch as shown.
- e. At the two Type R Fixtures shown outside the exit doors on the west side of the Gym, delete the normal power circuit IHA-17.

24. Sheet E2.03 Electrical Lighting Plan 1<sup>st</sup> & 2<sup>nd</sup> Floors Unit N, Area C - Triple Gymnasium N014:

- a. Delete the three rows of Type M Fixtures shown.
- b. Between the first fixture of each row and the south wall, provide one Type M Fixture, 11 total. Between the last fixture of each row and the north wall provide one Type M Fixture, 11 total.

- c. At Column Line 17, provide one Type M Fixture between each Type L Fixture, six total. At Column Line 36, provide one Type M Fixture between each Type L2 Fixture, six total. At Column Line 49, provide one Type M Fixture between each Type L Fixture, six total. Connect the 18 Type M Light Fixtures over the center of Gymnasium to Circuit EH2-17 and control with single pole switch located at Column Line 37. Connect the 16 fixtures over the Practice Gym to Circuit EH2-19 and control with single pole switch located at Column Line 38.
  - d. Delete the reference to switches F through P.
  - e. Route Circuits 2HA-26, 28, 30, 32, 34, and 36 through contactor to create Lighting Zone C. Control Zone C contactor with one standard toggle switch and one bi-level switch. Locate switches in Gymnasium Control Cabinet.
  - f. Route circuits 2HA-38 and 40 through a lighting contactor to create Zone D. Control Zone D contactor with one standard toggle switch and one bi-level switch. Locate switches in Gymnasium Control Cabinet.
  - g. Route Circuits 2HA-42, 43, and 45 through a lighting contactor to create Zone E. Control Zone E contactor with one standard toggle switch and one bi-level switch located in Gymnasium Control Cabinet.
25. Sheet E2.04 Electrical Lighting Plan 1<sup>st</sup> Floor Unit N, Area D
- a. Corridor N001, delete six down lights at corridor intersection; refer to Addendum #1, Sketch ADD-01-13 for new fixture layout.
  - b. At the east end of corridor, provide two Type X1 Exit Signs at the two exit doors. Provide an additional two Type X1 Exit Signs at the southern exit doors. Connect all four signs to Circuit EH2-2.
  - c. LGI N002, refer to attached Sketch **ADD-03-16** for revised lighting.
  - d. Electrical Keyed Notes, revise Key Note #4 to read as follows: JUNCTION BOX FOR DISPLAY CASE LIGHTING, PROVIDE COLUMBIA #NP64-232F-FA-A12-EPU-116281 RECESSED LIGHT FIXTURE.
26. Sheet E2.05 Electrical Lighting Plan 2<sup>nd</sup> Floor Unit N, Area D
- a. Corridor N200, provide Type X1 Exit Signs at the west end of the corridor; connect to Circuit EH2-1. Provide one Type X1 Exit Sign at the east end of the corridor; connect to Circuit EH2-1.
  - b. Delete six Type C Down Lights at corridor intersection; refer to Addendum #1, Sketch ADD-01-14 for new fixture layout.
  - c. Change Night Light Fixture at west end of corridor from Type A1 to Type A1E.
  - d. Corridor N205, delete the night light function from the center fixture; change the remaining two night fixtures from Type A1 to Type A1E. Add one Type X1 Exit Sign at the north end of corridor; connect to Circuit EH2-1.
27. Sheet E2.06 Electrical Lighting Plan 1<sup>st</sup> Floor Unit N, Area E
- a. Corridor N001, change all Night Light Fixtures from Type A1 to Type A1E. Provide one Type X1 Exit Sign at east end of corridor; one Type X1 Exit Sign at corridor intersection; connect to Circuit EH2-2. Move all 3-way switches at corridor intersection under common cover plate.
  - b. Vestibule N074, remove 3-way switch.
  - c. Coach's Office N077, change all 3-way switches to 3-way dual level switches; move two switches to wall adjacent to doors. Provide ceiling mounted occupancy sensor.
  - d. Head Coach's N064, change all Type A1 Light Fixtures to Type A2 Light Fixtures. Change Type A1E Light Fixture to Type A2E Light Fixture. Provide ceiling mounted occupancy sensor. Change all switches to 3-way dual level switches.
  - e. Hall N073, provide a Type XIV Exit Sign at south end of hallway; connect to Circuit EH2-8. Provide 3-way switch adjacent to door.

- f. Boys Locker Room N067, change one Type B Light Fixture to a Type BE Light Fixture at Hall N073 intersection; connect to Circuit EH2-8. Provide one Type X2V Exit Sign at Hall N073 intersection; connect to Circuit EH2-8. Provide one Type XIV Exit Sign at west end of room; connect to Circuit EH2-8. Provide 4-way switch at Column Line 45. Change all 3-way switches to 4-way switches.
- g. Men's Restroom N069, change one Type B Light Fixture to Type BE Light Fixture; connect to Circuit EH2-8. Provide two Type C2 fixtures at southeast corner of room.
- h. Vestibule N066, change Type A1E Light Fixture to Night Light. Provide one Type XIV Exit Sign at west side of room; connect to Circuit EH2-8.
- i. Hall N061, change all switches to 3-way switches.
- j. Boys PE Locker Room N089, change switch on south side of room to a 3-way switch. Provide 3-way switch adjacent to door on west side of room.
- k. Boys PE Restroom N088, change switch on southwest wall to a 3-way switch. Provide 3-way switch adjacent to door on north side of room. Change Type A3E Light Fixture to Type BE Light Fixture; connect to Circuit EH2-8. Make Type BE Light Fixture at west side of room a night light. Change 16' light fixture to a 20' fixture; make additional fixture Type B. Provide two Type C2 Light Fixtures at west side of room.
- l. Vestibule N088A, remove switch from room; connect light fixture to Circuit 2HA-17.
- m. Corridor N060, move all 3-way switches at corridor intersection under common cover plate. No directional arrows needed for exit signs north and south.
- n. Vestibule N029, remove Type R Light Fixtures from Circuit EH2-2; connect to Circuit EH2-41. Provide contactor for Type R Light Fixture to be controlled by BMCS as indicated on Panel Schedules.
- o. Storage N049, change middle Type A1 Light Fixture to Type A1E; connect to Circuit EH2-6.
- p. Hall N046, change switch to a 4-way switch. Provide Type XIV Exit Sign at doorway; connect to Circuit EH2-6.
- q. Vestibule N047, provide Type XIV Exit Sign at south doorway; connect to Circuit EH2-6.
- r. Girls Locker Room N045, Provide Type XIV Exit Sign at Column Line E.3; connect to Circuit EH2-6. Provide Type X2V Exit Sign between Column Lines 21 and 23; connect to Circuit EH2-6. Provide 4-way switch to left of Column Line 21; connect to Circuit 1HC-34.
- s. Women's Restroom N044, provide two Type C2 Light Fixtures in southeast corner; connect to Circuit 1HC-34.
- t. Hall N038, provide X2V Exit Sign at Column Line 13; connect to Circuit EH2-6. Provide Type XIV Exit Sign at east doorway; connect to Circuit EH2-6. Provide 4-way switch to right adjacent of east doorway.
- u. Hall N035, provide Type X2V Exit Sign at hall intersection; connect to Circuit EH2-6. Change all Type A1 and A1E Light Fixtures to Type A4 and A4E Light Fixtures respectively; change A4E to a Night Light. Provide Type XIV Exit Sign below Column Line 19; connect to EH2-6. Change north 3-way switch to a 4-way switch. Provide a 4-way switch at Column Line 19 wall adjacent to door.
- v. Hall N036, change Type A1 Light Fixture to Type A4 Light Fixture.
- w. Head Coach N056, provide ceiling mounted occupancy sensor in center of room.
- x. Coach Office N055, change all 3-way switches to 4-way dual level switches; provide 4-way dual level switch at northwest wall adjacent to door. Move 4-way switch at southwest corner to perpendicular wall. Remove 3-way switch next to Column Line 26. Provide two ceiling mounted occupancy sensors.
- y. Restroom N053, change one Type B Light Fixture to Type BE Emergency Light Fixture; connect to Circuit EH2-6.
- z. Restroom N053, change one Type B Light Fixture to Type BE Emergency Light Fixture; connect to Circuit EH2-6.

- aa. Girls Restroom N059, change south Type BE Light Fixture to a Night Light. Provide two Type C2 Light Fixtures at west side of room; connect to circuit 1HC-20.
- bb. Vestibule N059H, remove switch; disconnect from Circuit 1HC-20. Type A1E Light Fixture shall switch with corridor N030.

28. Sheet E2.07 Electrical Lighting Plan 2<sup>nd</sup> Floor Unit N, Area E

- a. Physics Lab N212, change all Type A1 and Type A1E Light Fixtures to Type A2 and A2E Light Fixtures respectively. In lieu of two 3-way switches, provide two 3-way dual level switches. Add ceiling mounted occupancy sensor.
- b. Physics Lab N214, change all Type A1 and Type A1E Light Fixtures to Type A2 and A2E Light Fixtures respectively. Change 3-way switches to dual level 3-way switches. Add ceiling mounted occupancy sensor.
- c. Specialist N215, add ceiling mounted occupancy sensor in center of room.
- d. Specialist N216, add ceiling mounted occupancy sensor in center of room.
- e. Academic Coach N217, change single pole switch to bi-level switch.
- f. Corridor N200, on west side of corridor, Type X1 Exit Light, remove circuiting to adjacent to Type A1 Light Fixture; shall be circuited to EH2-9 only. In Corridor, remove Night Light function of Light Fixtures on Column Lines 21, 25, between Column Lines 28 and 31; on Column Line 41; change Light Fixture Type from A1 to A1E; circuit fixtures to adjacent Type A1 Light Fixture and Emergency Circuit EH2-9. In Corridor provide Type X1 Exit Sign Fixture mounted on east side of corridor. Mount three Keyed Switches under a common face plate. Delete six Down Light Fixtures at both corridor intersections; refer to Addendum No. 01, Sketch ADD-01-13 for new fixture layout.
- g. Corridor N219, both Type X1 Exit Signs shall be connected to Emergency Circuit EH2-9 only. In Corridor provide three Type A1E Light Fixtures, one of which shall be a Night Light Fixture. Circuit fixtures to Emergency Circuit EH2-9 and corresponding hallway Circuit 2HC-27. Remove all Type A1/Night Light designations from fixtures in corridor.
- h. Room N221, delete single pole switch; provide dual level switch.
- i. Room N222, delete single pole switch; provide dual level switch.
- j. Corridor N223, both Type X1 Exit Signs shall be connected to Emergency Circuit EH2-9 only. In Corridor provide three Type A1E Light Fixtures, one of which shall be a Night Light Fixture. Circuit fixtures to Emergency Circuit EH2-9 and corresponding hallway Circuit 2HA-13. Remove all Type A1/Night Light designations from fixtures in corridor.
- k. Room N228, delete single pole switch; provide dual level switch.
- l. Room N229, delete single pole switch; provide dual level switch.
- m. Room N230, delete single pole switch; provide dual level switch.
- n. Corridor N030, keyed switch on far west side to be deleted as well as home run to 1HC-11. Circuit continuation to indicate Key Note #2. Fixture C2E on far east side of corridor, remove circuiting to Type C3 Light Fixture on interior of building; remove Circuiting EH2-7, recircuit to EH2-41. Route circuit through BMCS controlled lighting contactor.
- o. Stair 2N225, Type H2 Night Light Fixture, circuit to 2HA-19 and Emergency Circuit EH2-9.

29. Sheet E2.08 Electrical Lighting Plan 1<sup>st</sup> Floor Unit N, Area F

- a. Three Type R Light Fixtures on west side of building, remove interior circuiting and emergency circuiting. Provide new emergency circuit EH1-4 for all three fixtures.
- b. Dance N144, add ceiling mounted occupancy sensor in center of dance room. Change all Type A1 and A1E Light Fixtures to Type A2 and Type A2E Light Fixtures respectively. Remove two 3-way switches and provide two 3-way dual level switches. Change two Type X1 Exit Sign Fixtures on east side to Type X1V Exit Sign Fixtures. Remove interior circuiting; circuit to EH1-13 only. Remove two Type

- A1E Light Fixtures below Column Line K; replace with Type A1 Light Fixtures; circuit to 1HC-33.
- c. Restroom N141, delete keyed switch and replace with single pole switch.
  - d. Office N143, provide ceiling mounted occupancy sensor in center of room.
  - e. Corridor N135, provide five Type A1E Light Fixtures circuited to EH1-15 and 1HC-35, three of which shall be Night Light indications.
  - f. Electrical Keyed Notes, disregard Key Note #2.
  - g. Electrical Keyed Notes, Key Note #1 to read: CONNECT TO TYPE CE FIXTURE ON SHEET E2.09.
30. Sheet E2.09 Electrical Lighting Plan 2<sup>nd</sup> Floor Unit N, Area F
- a. Room N255, add ceiling mounted occupancy sensor. Replace single pole switch with dual level switch.
  - b. Room N254, add ceiling mounted occupancy sensor. Replace single pole switch with dual level switch.
  - c. Room N253, add ceiling mounted occupancy sensor. Replace single pole switch with dual level switch.
  - d. Room N250, provide eight Type A2 Light Fixtures and one A2E Light Fixture; circuit to 2HC-27. Provide one ceiling mounted occupancy sensor. Circuit all Type A2 fixtures to 2HC-27. Replace single pole switch with dual level switch.
  - e. Corridor N256, provide six Type A1E Light Fixtures, three to be Night Lights; circuit to Emergency Circuit EH1-1 and circuit 2HC-31.
31. Sheet E2.10 Electrical Lighting Plan 1<sup>st</sup> Floor Unit N, Area G
- a. Police Office N123C, Police Office N123B, Police Office N123A, Police Suite N123, Locker Room N121 and Restroom N122, all fixtures in these rooms shall be designated emergency, circuited to Circuit EH1-7; remove all circuiting to 1HD-13. Circuit 1HD-13 to be indicated as spare.
  - b. Computer Lab N114, all Type A1 and Type A1E Light Fixtures shall be Type A2 and Type A2E Light Fixtures respectively. Remove single pole switch and replace with 3-pole dual level switch on strike side of both doors.
  - c. Computer Lab N115, all Type A1 and Type A1E Light Fixtures shall be Type A2 and Type A2E Light Fixtures respectively. Remove single pole switch and replace with 3-pole dual level switch on strike side of both doors.
  - d. Computer Lab N117, all Type A1 and Type A1E Light Fixtures shall be Type A2 and A2E Light Fixtures respectively. Remove single pole switch and replace with 3-way dual level switch on strike side of both doors.
  - e. Corridor N100, delete four Type C Down Light Fixtures at both intersections; refer to Addendum 1, Sketch ADD-01-15 for revised lighting layout.
  - f. Corridor N100, provide five Type A1E Light Fixtures; circuit to Emergency Circuit EH1-15 and 1HD-15; two of these A1E Light Fixtures shall have Night Light label.
  - g. Corridor N110, provide three Type A1E Light Fixtures circuited to Emergency Circuit EH1-15 and circuit 1HD-13; two of these Type A1E Light Fixtures shall have Night Light Designation.
  - h. Custodial N107, change two Type A1 Light Fixtures to Type A4 Light Fixtures.
  - i. Supply N109, Provide ceiling mounted occupancy sensor.
  - j. Corridor N007, remove circuiting of two Exit Signs from Type A1 Light Fixtures; Exit Signs shall be circuited to EH1-15 only. South side exit sign, change Type designation from X3 to X1.
  - k. Corridor N110, remove circuiting of Type X1 Exit Sign Fixtures from Type A1 Light Fixtures; Type X1 Exit Sign shall be circuited to EH1-15 only.
  - l. Mechanical N128B, provide single pole switch on strike side of north door.
  - m. Central Plant N128, provide 3-way switch on strike side of east door and 3-way switch on right hand side of double doors on south side.
  - n. Main Electrical N128A, provide 3-way switch on strike side of west and south doors. Delete undesignated light fixture above door on west wall.

32. Sheet E2.11 Electrical Lighting Plan 2<sup>nd</sup> Floor Unit N, Area G
- a. Corridor N248, change Type A1 Light Fixture to Type A1E as follows: west most fixture between Column Lines 25 and 26; west of Column Line 31; east of Column Line 34; east of Column Lines 43 and 46; and west of Column Line 49. Remove Night Light designations from locations: between Column Lines 25 and 26, east of Column Line 34, and east of Column Line 46. Provide Type X1 Exit Sign at Column Line 31; connect to Circuit EH1-1. Provide Type X1 Exit Sign at Column Line 34; connect to Circuit EH1-1. Provide Type X2 Exit Sign at column Line 48; connect to Circuit EH1-1. Connect all pre-existing Night Lights to Circuit 2HB-9. Delete four Type C Down Lights at every corridor intersection; refer to Addendum #1, Sketch ADD-01-16 for new fixture layout.
  - b. Chemistry Lab N263, change all 3-way switches to 3-way dual level switches; change northwest Type A1E Light Fixture to Type A5E Light Fixture; connect to Circuit 2HB-3. Change center Type A1E Light Fixture to Type A5E Light Fixture; connect to Circuit 2HB-3. Change all Type A1 and A1E Light Fixtures to Type A5 and A53 Light Fixtures respectively.
  - c. Chemistry Lab N257, change all 4-way switches to 4-way dual level switches. Change all Type A1 and A1E Light Fixtures to Type A5 and A5E respectively.
  - d. Chemistry Prep N259, provide 4-way switch at Column Line H.3 and K; connect to Circuit 2HB-1.
  - e. Chemistry Storage N258, change all Type A1 and A1E Light Fixtures to Type A4 and A4E Light Fixtures respectively.
  - f. Chemistry Lab N260, change all Type A1 and A1E Light Fixtures to Type A5 and A5E Light Fixtures respectively. Change northwest light fixture to emergency designation; connect to Circuit EH1-3. Change all 4-way switches to 4-way dual level switches.
  - g. Chemistry Lab N264, change all 3-way switches to 3-way dual level switches. Change all Type A1 and A1E Light Fixtures to Type A5 and A5E Light Fixtures respectively.
  - h. Corridor 265, change all Night Light Fixtures Type A1 to Type A1E. Provide Type X1 Exit Sign at north end of corridor; connect to Circuit EH1-1. Provide Type X1 Exit Sign at Column Line K.3; connect to Circuit EH1-1.
  - i. Computer Lab N268, change all Type A1 and A1E Light Fixtures to Type A2 and A2E Light Fixtures respectively. Change all 3-way switches to 3-way dual level switches.
  - j. Corridor N275, provide Type X1 Exit Sign at south end of corridor; connect to Circuit EH1-1.
33. Sheet E2.13 Electrical Lighting Plan Unit H 1<sup>st</sup> & 2<sup>nd</sup> Floors
- a. Detail #3 Electrical Lighting Plan Unit H 2<sup>nd</sup> Floor
    - 1) Academic Coach K201, provide ceiling mounted occupancy sensor.
    - 2) Academic Coach K205, provide ceiling mounted occupancy sensor.
    - 3) In Corridor, provide Type X1 Exit Sign on west side of corridor; connect to Emergency Circuit EH-30.
  - b. Detail #1 Electrical Lighting Plan Unit 1<sup>st</sup> Floor
    - 1) Corridor H109A, continue circuit into Corridor H111.
    - 2) Corridor H111, provide Type X1 Exit Sign on west side of corridor.
    - 3) Corridor H100B, provide Type X1 Exit Sign on south side of corridor.
    - 4) Corridor H100A, provide Type X1 Exit Sign on west side of corridor.
    - 5) ROTC Instruction M101, provide ceiling mounted occupancy sensor. Remove circuiting of Type X1 Exit Light to nearby Type A2 Light Fixture. Circuit to Emergency Circuit EH-32 only.

- 6) Type R Light Fixture on southeast side of building; remove circuiting to interior fixtures; circuit to Emergency Circuit EH1-4 routed through BMCS lighting contactor.
34. Sheet E2.14 Electrical Lighting Plan Unit P Areas R and S
- a. Detail #2 Electrical Lighting Plan Unit P – Area R
    - 1) Band Hall P132, provide Type X1 Exit Sign above egress door between Column Lines BC and BD; circuit to EH-26. Circuit all HBH-31 Light Fixtures to corresponding Circuit HBH-29; remove dual level switch indicated as HBH-31 from west wall.
  - b. Detail #1 Electrical Lighting Plan Unit – Area S
    - 1) Along exterior west wall outside egress of Corridor P116, add Type R Light Fixture; outside egress door of Large Ensemble P122, add Type R Light Fixture. All Type R Light Fixtures along Column Line 2B, remove all previous designations of emergency and standard circuiting; circuit all Type R Fixtures to open space in existing Emergency High Voltage Panel EH in Mechanical/Electric Room D108; circuit to be controlled via lighting contactor through BMCS.
    - 2) Three Type C4 Light Fixtures along south wall, tie to emergency circuit along with Type R Light Fixtures along Column Line 2B.
    - 3) Corridor P100, provide Type X1 Exit Sign on west end.
    - 4) Small Ensemble P108, change all Type A1 and Type A1E Light Fixtures to Type A2 and Type A2E Light Fixtures respectively. Remove circuiting and Type X1 Exit Sign from west wall. Remove single pole switch and replace with dual level switch.
    - 5) Music Instrument Storage P109, remove single pole switch and provide 3-way switch on strike side of both north and south doors.
    - 6) Large Ensemble P122, provide ceiling mounted occupancy sensors. Remove circuiting of Type X1 Exit Sign to Type A2E Light Fixture. Type X1 to be circuited to emergency circuit EH-26 only.
    - 7) Corridor P116, provide X2 Exit Sign at intersection with Corridor P101; arrows to indicate exit west. Circuit home run to Circuit HBH-31.
    - 8) Corridor P121, provide three Type A1E Light Fixtures circuited to EH-26; two of these fixtures shall be indicated as Night Lights. Provide 3-way keyed switch on right hand side of north and south doors.
    - 9) Exterior egress door, south of Corridor P100, provide Type R Light Fixture; circuit to emergency panel same as Type R Light Fixtures along Column Line 2B.
    - 10) Corridor P101, circuit home run to HBH-39.
35. Sheet E3.01 Electrical Power Plan 1<sup>st</sup> Floor Unit N, Area A
- a. Hall N017, provide duplex receptacle on southeast wall; connect to Circuit 1LA-3.
  - b. Ticket N018, provide one duplex receptacle on the middle of each north and south wall; connect to Circuit 1LA-5.
  - c. Lobby N019, provide six 3/4" underground conduits from East Ticket N018 to north wall of Men's N023 for lighting, power and low voltage systems.
  - d. Mechanical N016A, Disconnect junction box for BMCS Panel from Circuit 1LA-2; reconnect to Circuit EL2-21. Disconnect junction box for Fire Alarm Power Supply from Circuit 1LA-4; reconnect to circuit EL2-23.
  - e. Hall N025, provide one duplex receptacle for each east and west wall perpendicular to doors on south side.
  - f. Mechanical N026A, disconnect junction box for BMCS Panel from circuit 1LB-2; reconnect to Emergency Circuit EL2-25. Disconnect junction box for Fire Alarm Power Supply from Circuit 1LB-4; reconnect to Circuit EL2-27.

- g. Booster Store N022, Move EF-27 to Women's N020 in northeast corner; connect to Circuit 1LB-68.
36. Sheet E3.02 Electrical Power Plan 1<sup>st</sup> Floor Unit N, Area B
- a. Relocate south side junction box receptacle and Key Note for Scoreboards east along wall to Column Line 9. Confirm exact location with Architect.
  - b. Relocate north side junction box receptacle and Key Note for Scoreboards east along wall to Column Line 9. Confirm exact location with Architect.
37. Sheet E3.03 Electrical Power Plan 1<sup>st</sup> Floor Unit N, Area C
- a. Flush mounted Gymnasium Control Panel along south wall shall be changed to indicate to be "recessed".
38. Sheet E3.04 Electrical Power Plan 1<sup>st</sup> Floor Unit N, Area D
- a. Corridor N001, for motorized security grille along west side, remove two keyed switches and replace with two 3-way keyed switches. Receptacle along Column Line 3, move to opposite wall along same corridor.
  - b. Storage N010, provide three duplex receptacles along millwork; coordinate with millwork for exact locations. Circuit to 1LC-41; provide #12 wire, 20 Amp Circuit Breaker, 3/4" C. Motorized security grille along east side, remove two keyed switches and replace with two 3-way keyed switches.
  - c. Mechanical N008, remove combination motor starter/disconnect for AHU-3; replace with VFD. Move Exhaust Fan-X to Corridor N007; indicated as EF-4; route home run to Panel 1LC-4; provide 20 Amp single pole circuit breaker, #12 wire, 3/4" C.
39. Sheet E3.05 Electrical Power Plan 2<sup>nd</sup> Floor Unit N, Area D
- a. Corridor N200, motorized security grille on west end, remove two keyed switches and replace with two 3-way keyed switches.
  - b. Mechanical N206, remove combination motor starter/disconnect for AHU-8 and replace with VFD.
40. Sheet E3.06 Electrical Power Plan 1<sup>st</sup> Floor Unit N, Area E
- a. Corridor N030, three receptacles on west side, remove remote GFI requirements. Provide duplex receptacle just east of Column Line 21, circuit to 1LC-63. Between Column Lines 38 and 41, provide one duplex receptacle, circuit to 1LC-48.
  - b. Coach's Office N055, refer to Sketch **ADD-03-17** for revised power layout.
  - c. Corridor N001: Motorized Security Grille along Column Line 41, change two keyed switches to two 3-way keyed switches. Delete CVB-07-10, indicate circuit as spare.
  - d. Exam Room N062, EF-41, provide 20 Amp motor rated switch; route home run to 1LC-4 with #12 wire, 3/4" C. Duplex receptacle on west side, tag with Key Note #3. Duplex receptacle with circuit indication 1LCA-13, shall be recircuited to 1LCA-33, 35 with #12 wire, 30 Amp 2-pole circuit breaker.
  - e. Men's Restroom N069, add four GFI duplex receptacles, each with dedicated circuits; 1LCA-2, 4, 6, and 8. Locate receptacles on the south side of central island adjacent to lavatories.
  - f. Coach's Office N077, provide two duplex receptacles on south wall; coordinate with millwork. Provide one duplex receptacle on west wall, coordinate with millwork. Provide three duplex receptacles on north wall, coordinate with millwork. Locate all duplex receptacles in between undercounter quad receptacles. Circuit three receptacles to 1LCA-10, the other three receptacles to 1LCA-12. Provide one 20-Amp single pole circuit breaker with #12 wire, 3/4" C for each home run.
  - g. Official's N087, provide two duplex receptacles; coordinate above millwork, and one quad receptacle beneath millwork on west wall just above Column Line D. Circuit both duplex receptacles to 1LC-56 and circuit quad receptacle to 1LCA-37.
  - h. Academic Coach N090, add one duplex receptacle on north wall; circuit to 1LC-56.

- i. Room N093, add one duplex receptacle along east wall; circuit to 1LC-62; relocate quad receptacle along east wall to north wall just east of Teacher Station. Recircuit indicated quad receptacle to 1LC-64.
41. Sheet E3.07 Electrical Power Plan 2<sup>nd</sup> Floor Unit N, Area E
- a. Storage N211, provide 1/4 HP EF-6 (on roof); connect to Circuit 2LA-71; provide a 20A single pole circuit breaker with #12 AWG.
  - b. Custodial N210, provide 1/4 HP EF-7 (on roof); connect to Circuit 2LA-73; provide a 20A single pole circuit breaker with #12 AWG. Provide GFCI duplex receptacle 48" AFF on south wall; connect to Circuit 2LA-49.
  - c. Room N218, move CVB-08-05 to Academic Coach N217. Provide one duplex receptacle coordinated with millwork along west wall in southwest corner; connect to Circuit 2LA-21.
  - d. Academic Coach N217, provide duplex receptacle at north wall in northwest corner; connect to Circuit 2LA-24.
  - e. Specialist N216, move quad receptacle and data/phone outlet connected to Circuit 2LA-5 to middle of north wall. Provide data outlet +80" with duplex receptacle connected to 2LA-7. Raise duplex receptacle connected to 2LA-7 +80".
  - f. Specialist N215, Raise duplex receptacle and data/phone outlet along south wall +80".
  - g. Mechanical N220, remove Starter/Disconnects from AHU-9, 10, 11, 12; replace Starter/Disconnects with a VFD. Remove VFD from AHU-1; replace VFD with a 60Amp, 3-Pole Starter/Disconnect.
  - h. Physics Lab N212, connect 1/2 HP EF-12 to timer switch and connect to Circuit 2LA-46. Disconnect three duplex receptacles coordinated with millwork from Circuit 2LA-26; reconnect each duplex receptacle individually to Circuits 2LA-48, 2LA-75, 2LA-77. Disconnect three duplex receptacles coordinated with millwork from Circuit 2LA-88; reconnect each duplex receptacle individually to Circuits 2LA-81, 2LA-83, 2LA-44. Provide two data outlets and one GFCI duplex receptacle coordinated with millwork in northeast corner of the east wall; connect duplex receptacle to Circuit 2LA-50. Provide duplex receptacle west and adjacent to projector screen; connect to Circuit 2LA-79. Move CVB-08-08 to Corridor N200.
  - i. Corridor N200, delete CVB-08-12; make Circuit 1HC-83 a spare. Move CVB-14-05 between Column Lines 34 and 37.
  - j. Physics Lab N214, move CVB-08-10 to Corridor N200 between Column Lines 23 and 25. Move Exhaust Fan EF-14 to southeast corner of room. Move CVB-08-11 to Corridor N200 between Column Lines 28 and 31.
  - k. Prep Room N213, Provide two GFCI duplex receptacles coordinated with millwork along west wall evenly spaced from the existing receptacle; connect each receptacle individually to Circuits 2LA-52 and 2LA-54. Provide two GFCI duplex receptacles coordinated with millwork along east wall evenly spaced from the existing receptacle; connect each receptacle individually to Circuits 2LA-56 and 2LA-58. Provide GFCI duplex receptacle along east wall for dishwasher; connect to Circuit 2LA-60. Provide Exhaust Fan EF-15, 1/4 HP, in the north part of room; connect to Circuit 2LA-62. Provide another Exhaust Fan EF-16 at 1/2 HP in center of room; connect to Circuit 2LA-64.
  - l. Room N221, provide duplex receptacle coordinated with millwork along north wall on Column Line 37; connect to Circuit 2LA-29. Move CVB-14-01 to Corridor N200 along Column Line 41.
  - m. Room N222, provide duplex receptacle coordinated with millwork along north wall in northwest corner; connect to Circuit 2LA-37. Move CVB-14-07 to Corridor N200 between Column Lines 41 and 43.
  - n. Storage N227, provide data outlet with duplex receptacle along west wall.
  - o. Room N228, provide duplex receptacle coordinated with millwork along south wall in southeast corner; connect to circuit 2LA-04. Move CVB-14-10 to Corridor N223 south of Column Line E.5.

- p. Room N229, provide duplex receptacle coordinated with millwork along north wall in northeast corner; connect to Circuit 2LA-12. Move CVB-14-08 to Corridor N223 north of Column Line F.
  - q. Room N230, provide duplex receptacle coordinated with millwork along south wall in southeast corner; connect to Circuit 2LA-20. Move CVB-14-06 to Corridor N223 east of Column Line 45.
42. Sheet E3.08 Electrical Power Plan 1<sup>st</sup> Floor Unit N, Area F
- a. Dance N144: EF-17, provide 20 Amp motor rated switch; circuit home run to 1LCA-14. Provide 20 Amp, single pole circuit breaker, #12 wire, 3/4" C. EF-18, provide 20 amp, single pole circuit breaker; route partial home run to 1LCA-14; #12 wire, 3/4" C. At north end of room, provide additional duplex receptacle along Column Line G.5. Circuit to 1LC-91. Relocate recessed sound reinforcement system amplifier to northeast corner of room. Provide one duplex receptacle on south wall adjacent to projector screen; circuit to 1LC-93.
  - b. Corridor N135: north end, motorized security grille, remove two keyed switches and replace with two 3-way keyed switches.
43. Sheet E3.09 Electrical Power Plan 2<sup>nd</sup> Floor Unit N, Area F
- a. Room N255, add one duplex receptacle coordinated with millwork along north wall; circuit to 2LC-9.
  - b. Room N254, add one duplex receptacle coordinated with millwork along south wall; circuit to 2LC-17.
  - c. Room N253, add one duplex receptacle coordinated with millwork along north wall; circuit to 2LC-8.
  - d. Room N250, add one duplex receptacle coordinated with millwork along south wall; circuit to 2LC-16.
44. Sheet E3.10 Electrical Power Plan 1<sup>st</sup> Floor Unit N, Area G
- a. Teacher Work Room N113, along west wall, provide four duplex receptacles mounted above counter space; circuit two to 1LD-107; circuit two to 1LD-109. At Islands in center of room mount one duplex receptacle on each side of millwork, typical of four; dedicate each table with circuits 1LD-111, 1LD-113, 1LD-115 and 1LD-117. Provide one duplex receptacle coordinated above millwork on south side of east wall; circuit to 1LD-109. In southeast corner locate one duplex receptacle 80" AFF; circuit to 1LD-119. Provide 20 Amp single pole circuit breaker, #12 wire, 3/4" C. Along east wall, locate three duplex receptacles above millwork; circuit two receptacles to 1LD-121; circuit one to 1LD-23. Provide 20 Amp single pole circuit breaker, #12 wire, 3/4" C. Along north wall at copier, provide an additional duplex receptacle with 20Amp two pole circuit breaker for home run to 1LD-116 and 1LD-118. Provide #12 wire, 3/4" C. Change quad receptacle at copier location to a duplex receptacle; remove 1LD-11 circuiting and recircuit to dedicated 1LD-120. Provide 20 Amp, single pole, #12 wire 3/4" C.
  - b. Room N120, provide one duplex receptacle coordinated above millwork along north wall; circuit to 1LD-12.
  - c. Police Suite N123, provide two GFCI duplex receptacles coordinated above millwork adjacent on either side of sink along east wall. Provide dedicated circuit to 1LD-38 and 1LD-40. Remove duplex receptacle with circuit indication 1LD-23.
  - d. Asst. Principal Reception N124, along south wall at copier location, recircuit duplex receptacle to dedicated circuit 1LD-23. Provide an additional duplex receptacle, 208V, 20 Amp, 2 Pole Circuit Breaker, #12 wire to Circuit 1LD-122, 124.
  - e. Room N119, provide one duplex receptacle coordinated above millwork along north wall; circuit to 1LD-20.
  - f. Asst. Principal Office N124A, provide one duplex receptacle at +80" AFF; circuit to 1LDA-1.

- g. Room N125, provide one duplex receptacle coordinated above millwork along east wall; circuit to 1LDA-3.
- h. Room N126, provide one duplex receptacle coordinated above millwork along west wall; circuit to 1LDA-3.
- i. Room N127, provide one duplex receptacle coordinated above millwork along east wall; circuit to 1LDA-5.
- j. Corridor N110, along north end security motorized grille, delete two keyed switches and replace with two 3-way keyed switches. Delete CVB-07-01; remove circuiting 1HD-38; indicate circuit as spare.
- k. Custodial N107, mount GFCI duplex receptacle along east wall at +48" AFF.
- l. Room N108, add one duplex receptacle coordinated above millwork along north wall; circuit to 1LDA-7.
- m. Room N103, add one duplex receptacle coordinated above millwork along north wall; circuit to 1LDA-7.
- n. Mechanical N104, provide one new 100A MLO, 120/208V, 3 Phase, 4 Wire Panel 1LDA adjacent to 1LD along south wall. Route 4#3, 1#8G, 1-1/4"C. to Distribution Panel DBP. Provide 100A/3P circuit breaker. Refer to **ADD-03-15** for Panel Schedule. SF-3, provide 30 Amp 3-pole disconnect and Size 1 Starter on west wall; route home run to 1LDA-13, 15, 17; provide 30 Amp 3-pole circuit breaker, #12 Wire, 3/4"C. SF-4, provide 30 Amp 3-pole disconnect and Size 1 Starter on west wall; route home run to 1LDA-19, 21, 23; provide 30 Amp 3-pole circuit breaker, #12 Wire, 3/4"C.
- o. Room N102, provide one duplex receptacle coordinated above millwork along north wall; circuit to 1LDA-9.
- p. Room N096, provide one duplex receptacle coordinated above millwork along north wall; circuit to 1LDA-9.
- q. Room N095, provide one duplex receptacle coordinated above millwork along south wall; circuit to 1LDA-11.
- r. Room N094, provide one duplex receptacle coordinated above millwork along north wall; circuit to 1LDA-11.
- s. Exterior Central Plan on south side, delete five Type Q Light Fixtures, space remaining five fixtures evenly across back wall. Circuit fixtures to Emergency Circuit EH1-2 through BMCS contactor.

45. Sheet E3.11 Electrical Power Plan 2<sup>nd</sup> Floor Unit N, Area G

- a. Room ISS N246, provide one duplex receptacle in northwest corner; circuit to 2LB-3; quad receptacle along northwest wall recircuit to 2LB-3 in lieu of 2LB-5; circuit ceiling mounted quad receptacle for projector to 2LB-3.
- b. Restroom N247, remove GFCI duplex receptacle and remove circuiting 2LB-3. Provide one 20 amp motor rated switch at northwest wall for EF-34; route to Panel 2LB-80; provide 20 Amp single pole breaker #12 wire.
- c. Asst. Principal Reception N245, along south wall add one duplex receptacle for copier; provide 20 amp, single pole circuit breaker, #12 wire 2LB-85; provide one 208 volt receptacle, 20 amp 2-pole circuit breaker, #12 wire 2LB-86, 88.
- d. Asst. Principal Office N243, provide one duplex receptacle in southwest corner 80" AFF for television; circuit to 2LB-87.
- e. Room N242, provide one duplex receptacle along west wall at location of indicated circuiting 2LB-23. Along east wall, provide one duplex receptacle coordinated with millwork; circuit to 2LB-89.
- f. Room N241, provide one duplex receptacle coordinated above millwork on west wall; circuit to 2LB-89.
- g. Corridor N248, delete CVB-15-05; remove circuiting of 2HB-38, indicate circuit as spare.
- h. Room N240, provide one duplex receptacle coordinated above millwork on east wall; circuit to 2LB-90.

- i. Room N239, provide one duplex receptacle coordinated above millwork on west wall; circuit to 2LB-90.
- j. Room N238, provide one duplex receptacle coordinated above millwork on west wall; circuit to 2LB-90.
- k. Girls N267, for EF-35, provide 20 amp motor rated switch; circuit to 2LB-90; provide 20 amp single pole circuit breaker, #12 wire.
- l. Mechanical N270, add 3<sup>rd</sup> Section to Panel 2LB. Refer to attached Sketch **ADD-03-13** for Panel Schedule.
- m. Computer Lab N268, for two quad receptacles, circuit to 2LB-91 in lieu of 2LB-55; for two quad receptacles on west wall, circuit to 2LB-93 in lieu of 2LB-57. On east wall, for two quad receptacles circuit to 2LB-92 in lieu of 2LB-59. On east wall, for two quad receptacles, circuit to 2LB-94 in lieu of 2LB-61.
- n. Room N273, provide one duplex receptacle coordinated above millwork on north wall; circuit to 2LB-95. EF-36, provide 20 amp motor rated switch; circuit to 2LB-96, provide 20 amp circuit breaker #12 wire, 3/4 C.
- o. Room N233, provide one duplex receptacle coordinated above millwork on north wall; circuit to 2LB-97.
- p. Room N234, provide one duplex receptacle coordinated above millwork on south wall; circuit to 2LB-97.
- q. Room N235, provide one duplex receptacle coordinated above millwork on north wall; circuit to 2LB-97.
- r. Electrical Keyed Notes: Key Note #5 is to read: RECEPTACLE FOR GOGGLE CABINET, COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
- s. Chemistry Prep N259, provide one duplex receptacle along east wall for refrigerator; circuit to 2LB-115. Add one duplex receptacle on east wall for dishwasher; circuit to 2LB-114. Remove three GFCI duplex receptacles from circuit 2LB-76; dedicate one receptacle each to circuits 2LBA-11, 12 and 13.
- t. Mechanical Room N270, provide one new 100A MLO, 120/208V, 3 Phase, 4 Wire Panel 2LBA adjacent to 2LB along south wall. Route 4#3, 1#8G, 1-1/4" C. to Distribution Panel DBP. Provide 100A/3P circuit breaker. Refer to **ADD-03-14** for Panel Schedule.
- u. Chemistry Lab N257, refer to attached Sketch **ADD-03-18** for revised layout.
- v. Chemistry Lab N260, refer to attached Sketch **ADD-03-19** for revised layout.
- w. Chemistry Lab N263, refer to attached Sketch **ADD-03-20** for revised layout.
- x. Chemistry Lab N264, refer to attached Sketch **ADD-03-21** for revised layout.

46. Sheet E3.13 Electrical Power Plan 1<sup>st</sup> and 2<sup>nd</sup> Floors Unit H

- a. Detail #3 Electrical Power Plan Unit H 2<sup>nd</sup> Floor
  - 1) Academic Coach K201, provide three quad receptacles coordinated with casework along south wall; dedicated each to circuits Panel F-43, 45 and 47.
  - 2) Academic Coach K205, provide three quad receptacles coordinated with casework along north wall; dedicated each to circuits Panel F-49, 51 and 53.
- b. Detail #1 Electrical Power Plan Unit H 1<sup>st</sup> Floor
  - 1) Academic Coach H108, provide three quad receptacles coordinated with casework along south wall; dedicated each to circuits Panel F-44, 46 and 48.
  - 2) Academic Coach H107, provide three quad receptacles coordinated with casework along south wall; dedicated each to circuits Panel F-50, 52 and 54.
  - 3) Academic Coach H103A, provide three quad receptacles coordinated with casework along south wall; dedicated each to circuits Panel F-55, 57 and 59.

47. Sheet E3.14 Electrical Power Plan Unit P Areas R and S

- a. Detail #2 Electrical Power Plan Unit P Area R
  - 1) Garage P135, provide one dedicated duplex receptacle on west wall for ice machine; circuit to Panel LBH-43; provide 20 amp single pole circuit breaker with #12 wire. Provide remote GFCI adjacent to receptacle

48. Sheet E4.02 Electrical Kitchen Floor Plan
- Refrigeration Rack #E014, circuit home run to Panel LEK-7, 9, 11; 80 Amp 3-pole circuit breaker
  - Prep Room, north wall, #E118, provide 20Amp 3-pole circuit breaker in Panel LEK-27, 29 and 31.
49. Sheet E4.04 Electrical Snack Bar Floor Plan
- Corridor C117, at hi-low drinking fountain on north wall, provide dedicated 20 amp duplex receptacle with remote GFCI; mount receptacle within confines of drinking fountain; circuit to Panel LEK-22; provide #12 wire, 20 amp single pole circuit breaker. Provide one duplex receptacle on south wall of corridor; circuit to LEK-33.
50. Sheet E7.01 Electrical Schedules
- Symbol Schedule General Note shall read: ALL EXTERIOR BUILDING ELECTRICAL EQUIPMENT SHALL BE WEATHERPROOF NEMA-4X MINIMUM.
51. Sheet P0.01 – Plumbing Demolition Plan
- Revise Detail title from "Area H" to "Unit C".
52. Sheet P1.01 – Plumbing Site Plan
- Revise left key note number 6 to number 5 to indicate fire line in Central Plant yard.
  - Add Invert Elevation at new grease trap East of Unit 'C'. I.E.= 4'-9" B.F.F.
  - Revise Key Note 6 natural gas demand load to 8,820 CFH.
53. Sheet P2.06 – Plumbing Underfloor Plan Unit P - Area 'R' and 'S'
- Provide underfloor sanitary piping from drain and sink in Garage P135. Route piping to and connect to sanitary main at Uniform Storage P133.
  - Adjust final locations of restroom floor drains as per Architectural Drawings.
54. Sheet P3.08 – Plumbing Plan Second Floor – Unit N - Area 'D'
- Revise drawing to indicate proper matchline and eliminate plumbing work shown beyond the matchline limits. . Refer to Sketch **ADD-03-22**.
55. Sheet P3.09 – Plumbing Plan First Floor – Unit N - Area 'E'
- Restroom N065 - revise lavatory to new lavatory L-4.
  - Restroom N053 - revise lavatory to new lavatory L-4. Move shower controls and water drops to opposite side of shower as per Architectural.
  - Shower Room N086 - revise lavatory to new lavatory L-4.
  - Route Gas piping from Instructor's Table in Physics Lab N214 down to above ceiling of Softball V,JV,FR Locker Rm N051 and branch piping as required to serve gas turrets at student lab stations above. Piping shall branch 3/4" North and South. Route 1/2" gas up thru floor. Re: Sketch **ADD-03-23** for turret and floor penetration locations.
  - E. Route Gas piping from Instructor's Table in Physics Lab N212 down to above ceiling of Track V,JV,FR Locker Rm N043 and branch piping as required to serve gas turrets at student lab stations above. Piping shall branch 3/4" East and West. Route 1/2" gas up thru floor. Re: Sketch **ADD-03-24** for turret and floor penetration locations.
56. Sheet P3.10 – Plumbing Plan Second Floor - Unit N - Area 'E'
- Physics Lab N214 - Create acid Vent system eliminating piping connection to Sanitary Vent above Corridor N219. Add new 3" Acid Vent thru roof for Acid Vent piping serving the area. Route 1/2" gas up thru floor, into casework to gas turret serving Student Lab Station. Re: Sketch **ADD-03-23** and Sheet A8.02.

- b. Physics Lab N212 - Create acid Vent system eliminating piping connection to Sanitary Vent above Corridor N205. Add new 3" Acid Vent thru roof for Acid Vent piping serving the area. Route 1/2" gas up thru floor, into casework to gas turret serving Student Lab Station. Re: Sketch **ADD-03-24** and Sheet A8.02.
  - c. Revise key note number 11 from 3/4" to 1". Add key note 12. . Re: Sketch **ADD-03-24**.
57. Sheet P3.13 – Plumbing Plan First Floor – Unit N - Area 'G'
- a. Police Suite N123 - Branch in wall from cold water 1/2" line to serve coffee maker. Re: Architectural drawings for exact location of coffee maker. Provide cast chrome escutcheon, shut-off ball valve, and counter grommet.
58. Sheet P3.14 – Plumbing Plan Second Floor – Unit N - Area 'G'
- a. Chemistry Prep N259 - Route 1/2" hot water to dishwasher. Provide RVB-1 served by 1/2" cold water to serve refrigerator.
  - b. Indicate water heater flue and 2"-8oz. gas line on south exterior wall approximately 3 feet to the East of Column bubble 45.
  - c. Create and separate Acid Vent System to serve all Acid Waste receptors. Add new 3" Acid Vent thru roof. Sanitary Vent shall not cross connect with Acid Vent.
59. Sheet P3.15 – Plumbing Plan First Floor Unit C
- a. Delete Storm and Overflow piping shown routed along and discharging at Column 1F. Piping shall be rerouted, re: sheet P4.05.
60. Sheet P4.02 – Plumbing Central Plant Plan
- a. Route gas water heater flue from water heater into Main Electrical N128A high to clear door, turn and penetrate exterior wall with Concentric Vent Kit specified with water heater.
61. Sheet P4.05 – Plumbing Snack Bar Floor Plan
- a. Chair Storage C112 - Reroute 6" Storm and 6" Overflow piping to the East, down in chase of Men C116 and terminate 12" above finished floor with downspout nozzles.
62. Sheet P5.01 – Plumbing Details
- a. Add detail number 16, Instructor's Table Piping Schematic. Re: Sketch **ADD-03-25**.
63. Sheet P6.01 – Plumbing Schedules, Notes, and Legend
- a. Fixture Schedule - Add Fixture L-4  
 TYPE : L-4 (T.A.S. COMPLIANT FOR ADULTS) - HOT AND COLD WATER FOR FACULTY  
 DESCRIPTION: LAVATORY, WALL HUNG, VITREOUS CHINA, 20-1/2" X 18-1/4" WITH FRONT OVERFLOW AND CONCEALED ARM SUPPORTS, FAUCET HOLES ON 4" CENTERS. AMERICAN STANDARD "LUCERNE" 0355.012.  
 FAUCET: CHROME PLATED BRASS DECKED MOUNTED LAVATORY FAUCET WITH 4" SPOUT AND 4" WRIST BLADE HANDLES ON 4" CENTERS. QUARTER TURN CERAMIC DISC OPERATING CARTRIDGES, VANDAL RESISTANT 2.2 GPM AERATOR. CHICAGO MODEL 802-317XK-E12VPJKCP.  
 STRAINER 1-1/4" 17 GAUGE STRAINER, CHROME PLATED BRASS GRID DRAIN WITH ELBOW AND 17 GAUGE TAILPIECE. MCGUIRE 151A.  
 P-TRAP: 1-1/4" 17 GAUGE CHROME PLATED HEAVY CAST BRASS TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON PLATE. MCGUIRE 8872.

SUPPLIES: 1/2" I.P.S. X 3/8" O.D. CHROME PLATED LOOSE KEY STOP VALVE WITH ESCUTCHEON AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE 2165LK.

CARRIER: RECTANGULAR STEEL TUBING UPRIGHTS WITH WELDED 3" X 4-1/2" BASE ANCHORED TO CONCRETE WITH (4) 1/2" BOLTS, ADJUSTABLE SLEEVE, THREADED CONCEALED ARMS, ALIGNMENT BAR, LOCKING DEVICE, AND LEVELING SCREWS. MIFAB MC-41.

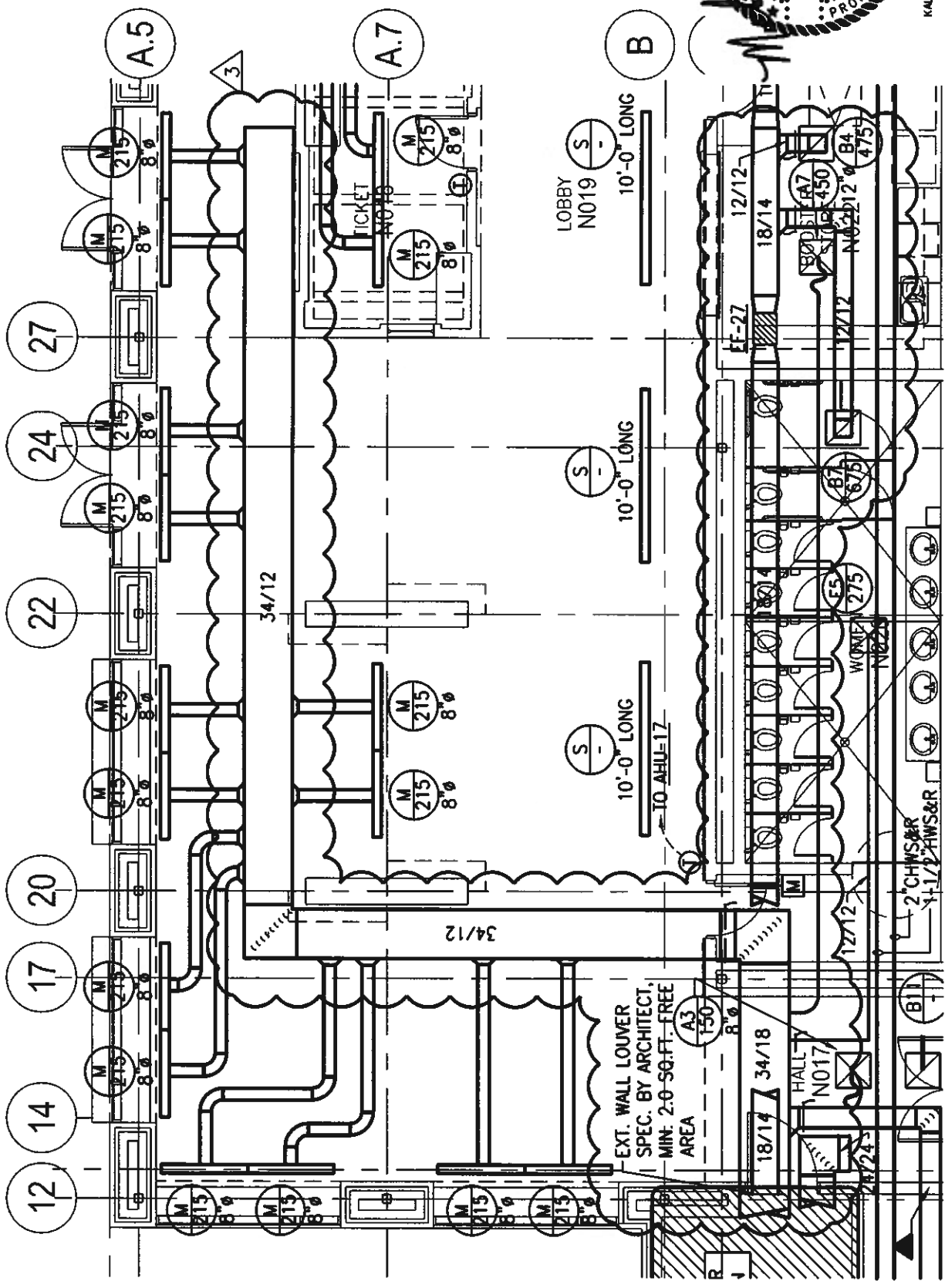
ROUGH-IN: 2" WASTE, 2" VENT, 1/2" HOT AND COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.

- b. Plumbing Legend - Add symbol for TERMINATION OF DEMOLITION as shown on demolition sheets as square checkered box.

**PART E: RE-ISSUED SHEETS**

64. None

**END OF ADDENDUM**



EXT. WALL LOUVER  
 SPEC. BY ARCHITECT,  
 MIN: 2.0 SQ.FT. FREE  
 AREA



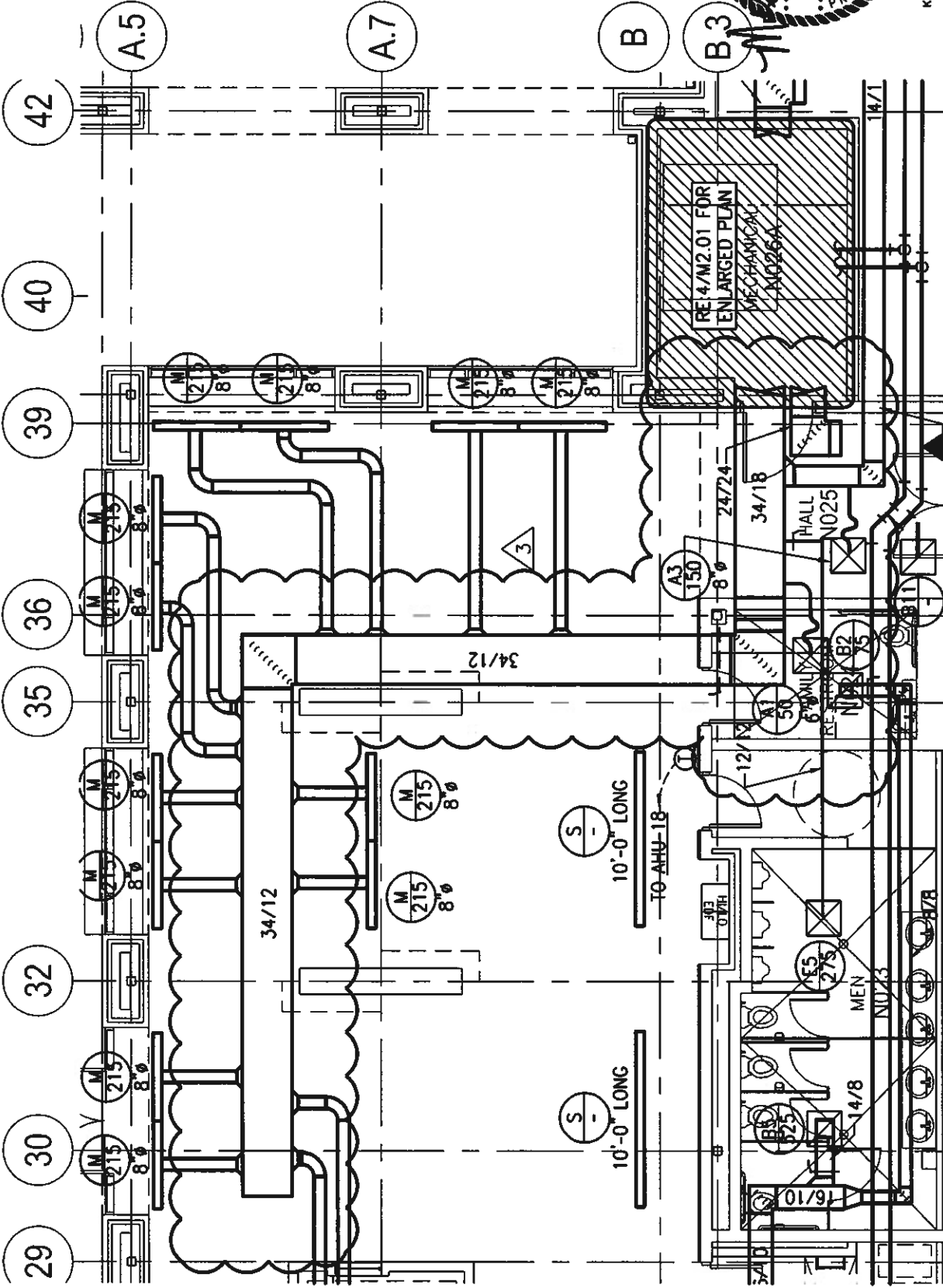
# MECHANICAL FIRST FLOOR PLAN - AREA "A"

ADD-03-01  
 0743  
 SCALE: 1/8" = 1'-0"  
 DATE  
 M1.01

DICKINSON HS ADDITIONS & RENOVATIONS  
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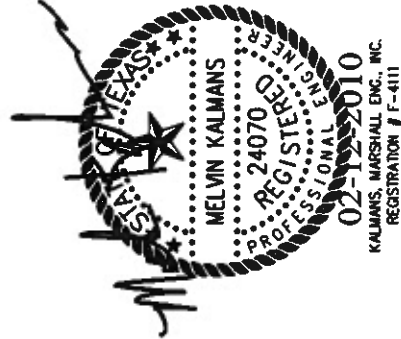
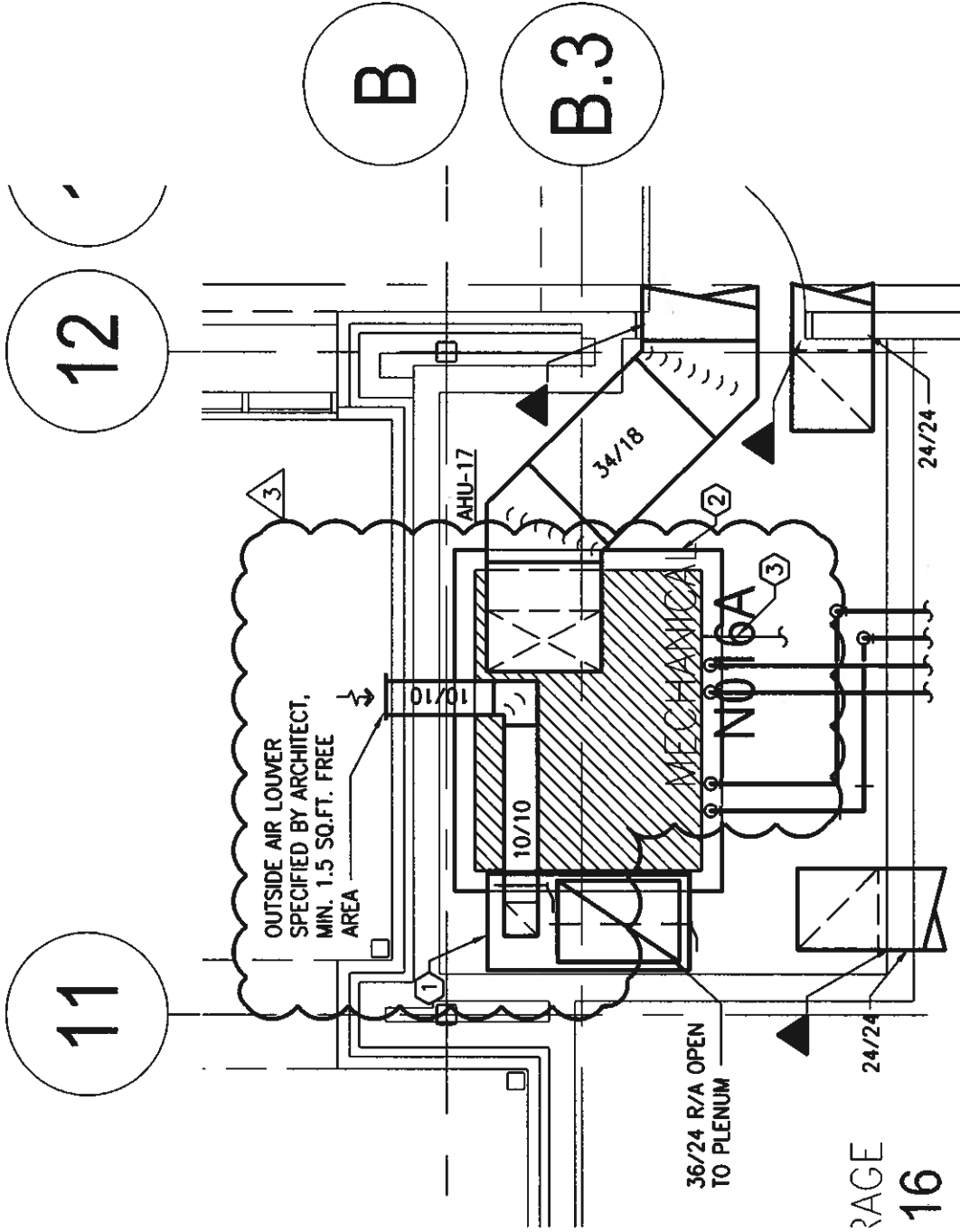
# MECHANICAL FIRST FLOOR PLAN - AREA "A"

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ADD-03-02  
 0743  
 SCALE: 1/8" = 1'-0"  
 DATE  
 M1.01



# ENLARGED MECHANICAL ROOM N016A

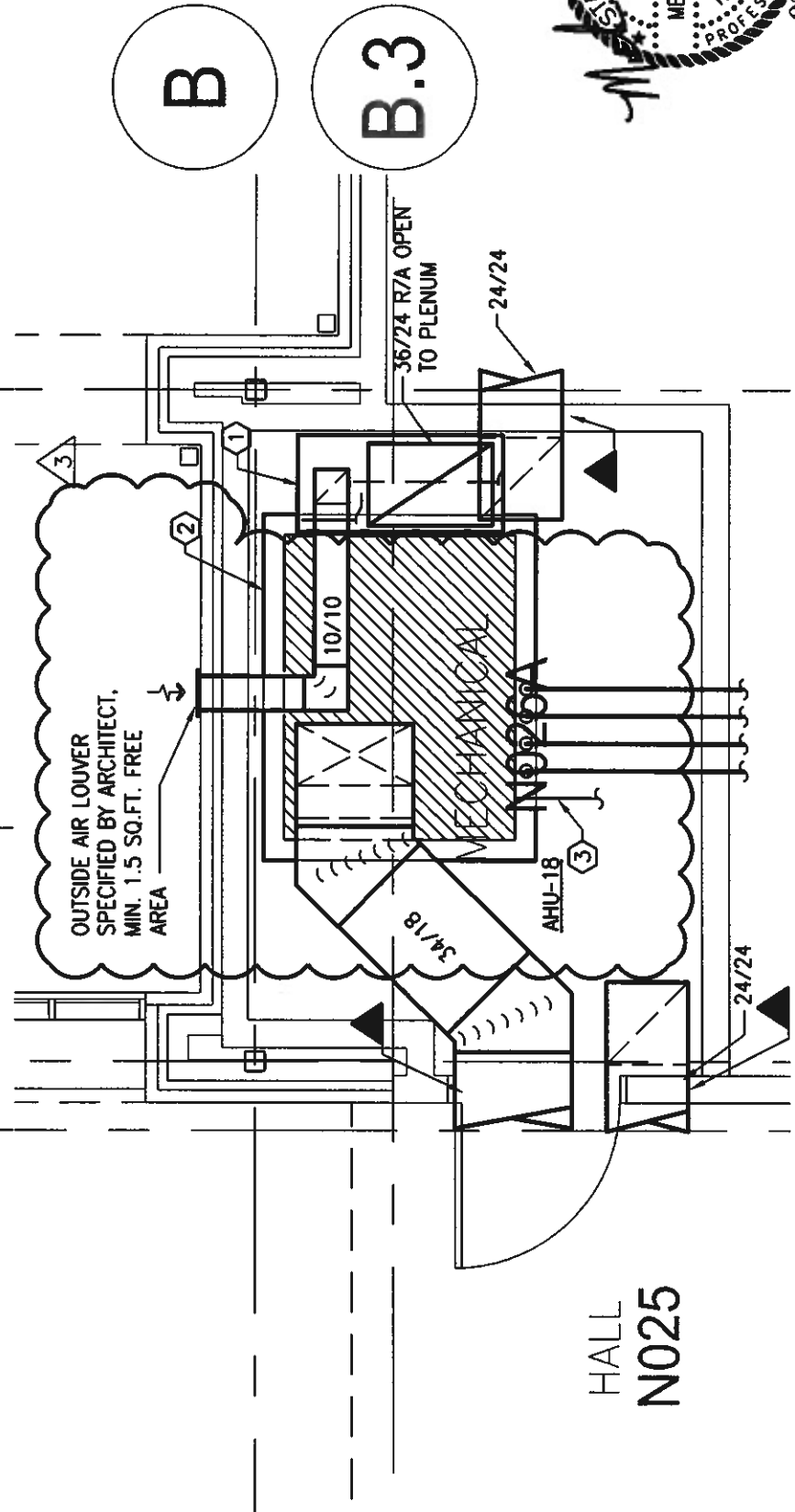
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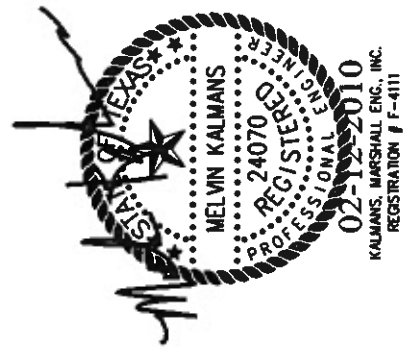
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0743  
SCALE: 1/4" = 1'-0"  
DATE  
M2.01



39      40      42



HALL  
N025



# ENLARGED MECHANICAL ROOM N026A

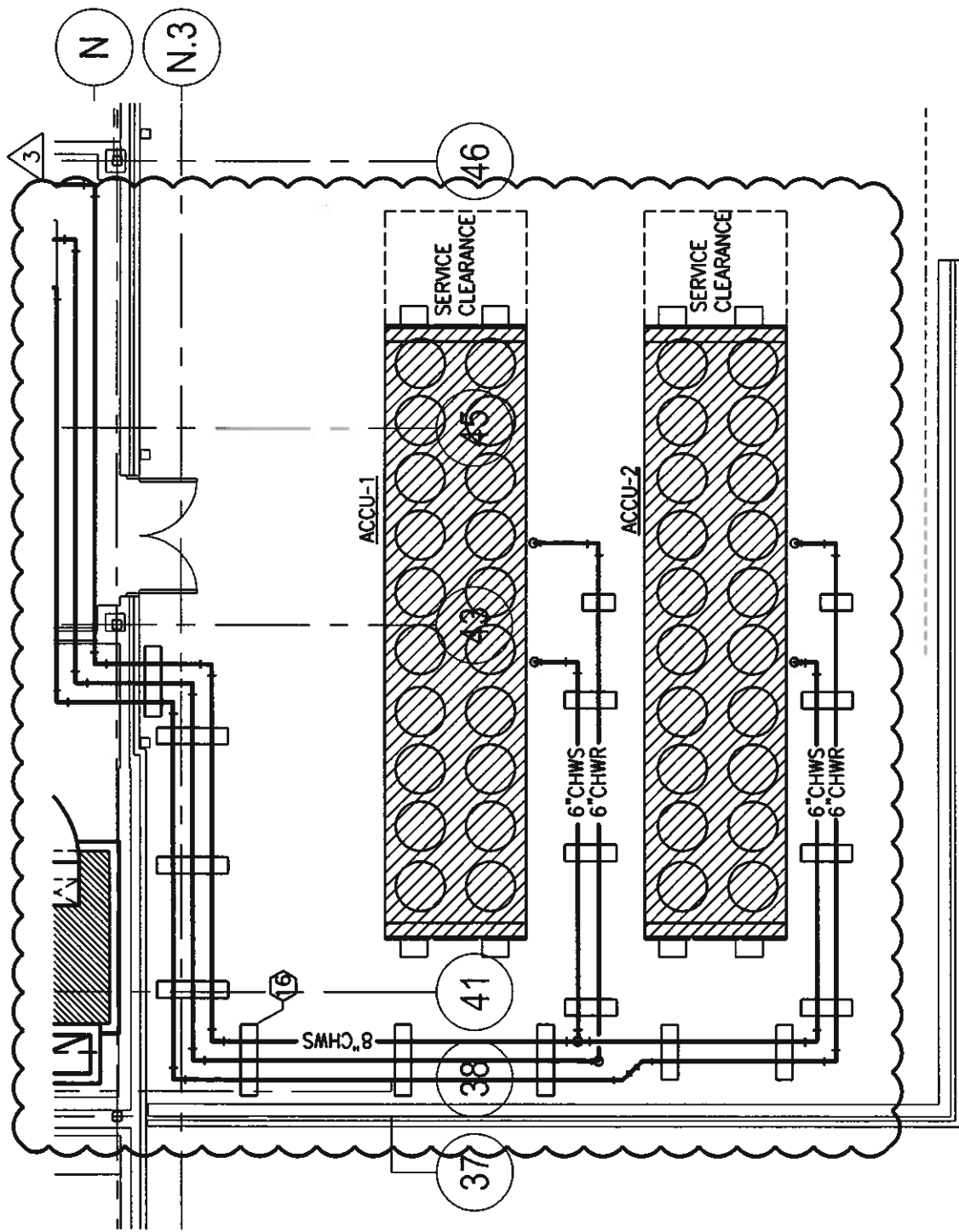
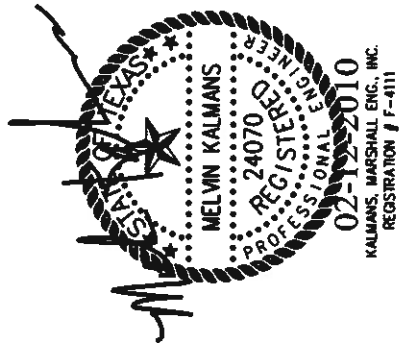
**DICKINSON HS ADDITIONS & RENOVATIONS**  
DICKINSON I.S.D.

**ADD-03-04**  
0743  
SCALE: 1/4" = 1'-0"  
DATE  
M2.01

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# MECHANICAL CENTRAL PLANT FLOOR PLAN

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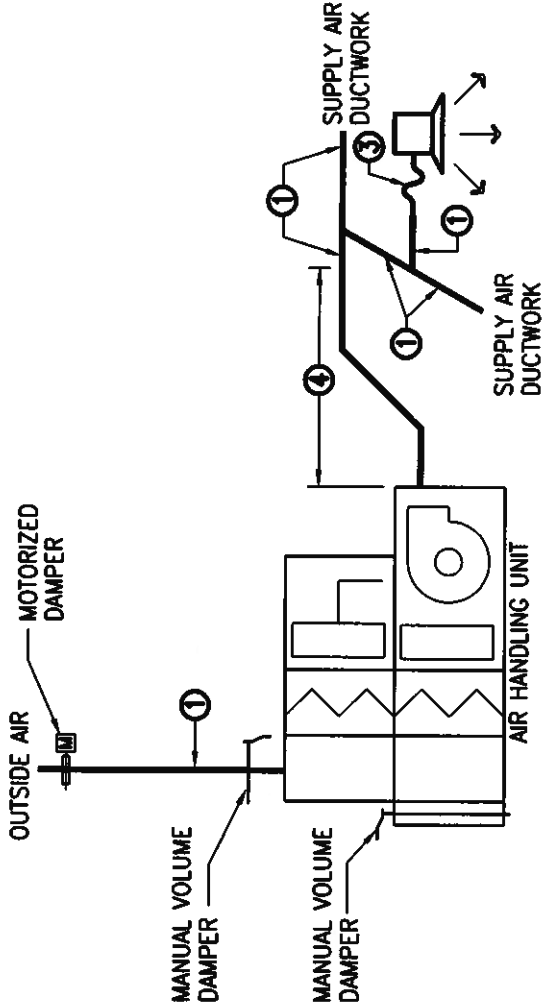
DICKINSON HS ADDITIONS & RENOVATIONS  
 DICKINSON I.S.D.

ADD-03-06  
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 SCALE: 1/8" = 1'-0"  
 02/12/2010  
 M2.02

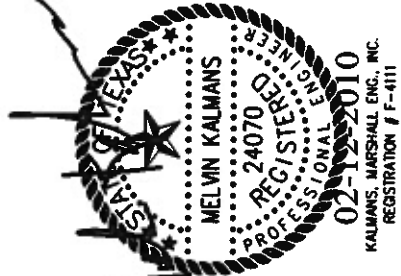




3



AIR HANDLING UNITS W/  
SPLIT DEHUMIDIFICATION UNITS



# MECHANICAL DUCT LINER AND INSULATION DETAILS

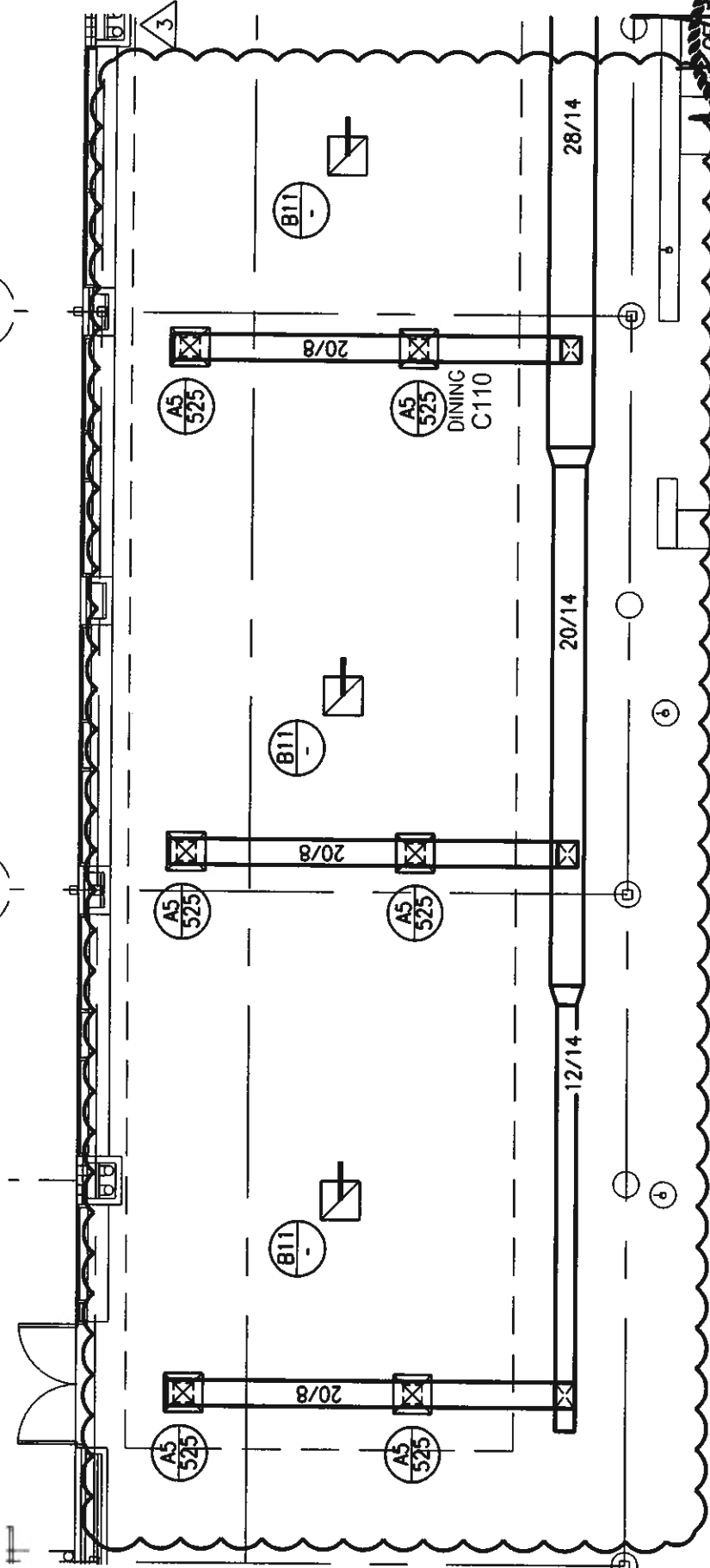
DICKINSON HS ADDITIONS & RENOVATIONS DICKINSON I.S.D.	ADD-03-08 0743 SCALE: NO SCALE DATE M4.03
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1C

1B



02-12-2010  
 KALMANS, MARSHALL ENG., INC.  
 REGISTRATION # F-4111

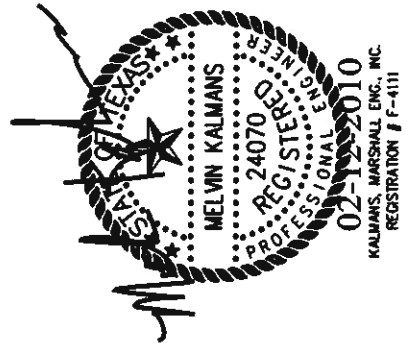
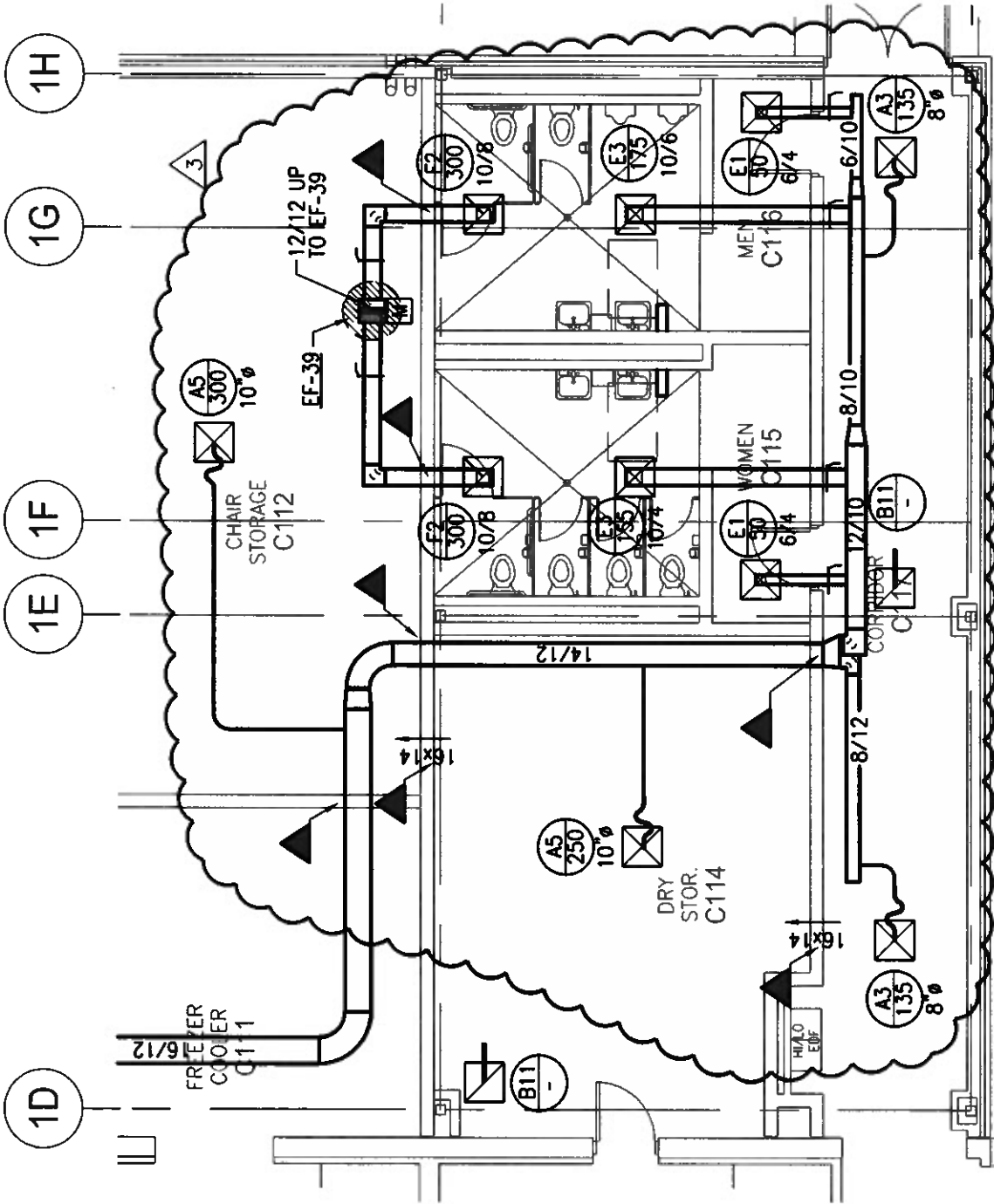
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**DICKINSON HS ADDITIONS & RENOVATIONS**  
 DICKINSON I.S.D.

**ADD-03-09**  
 0743  
 SCALE: 1/8" = 1'-0"  
 DATE  
 M1.12

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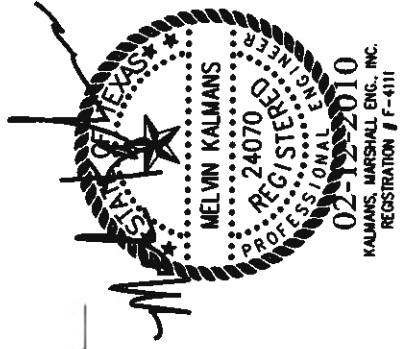
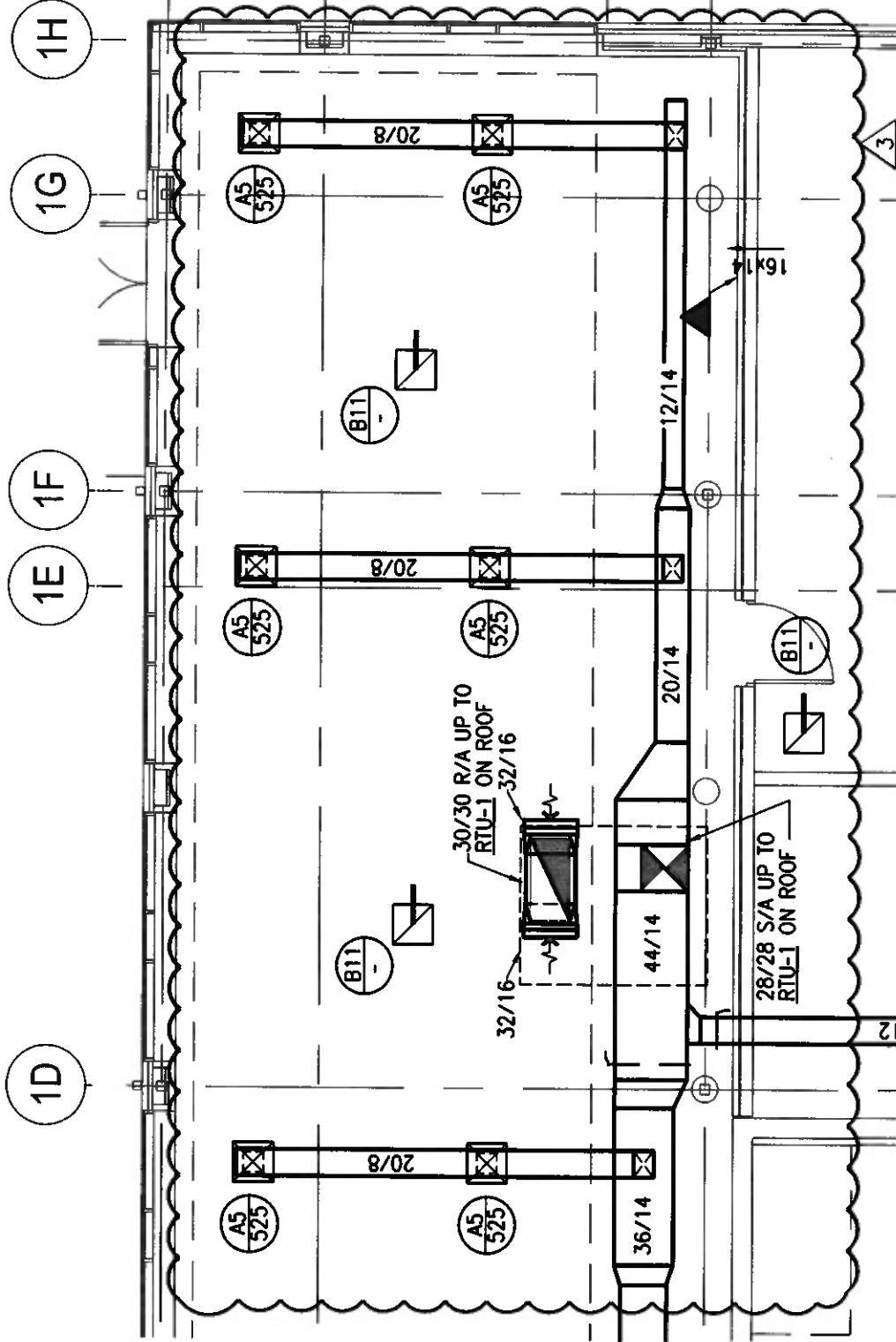
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**DICKINSON HS ADDITIONS & RENOVATIONS**  
 DICKINSON I.S.D.

ADD-03-11  
 0743  
 SCALE: 1/8" = 1'-0"  
 DATE  
 M1.12





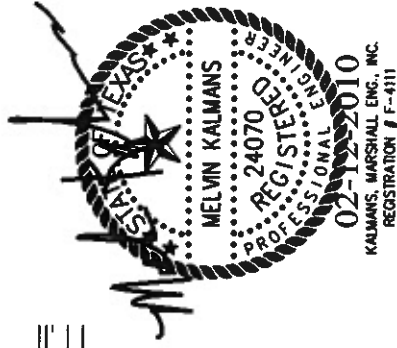
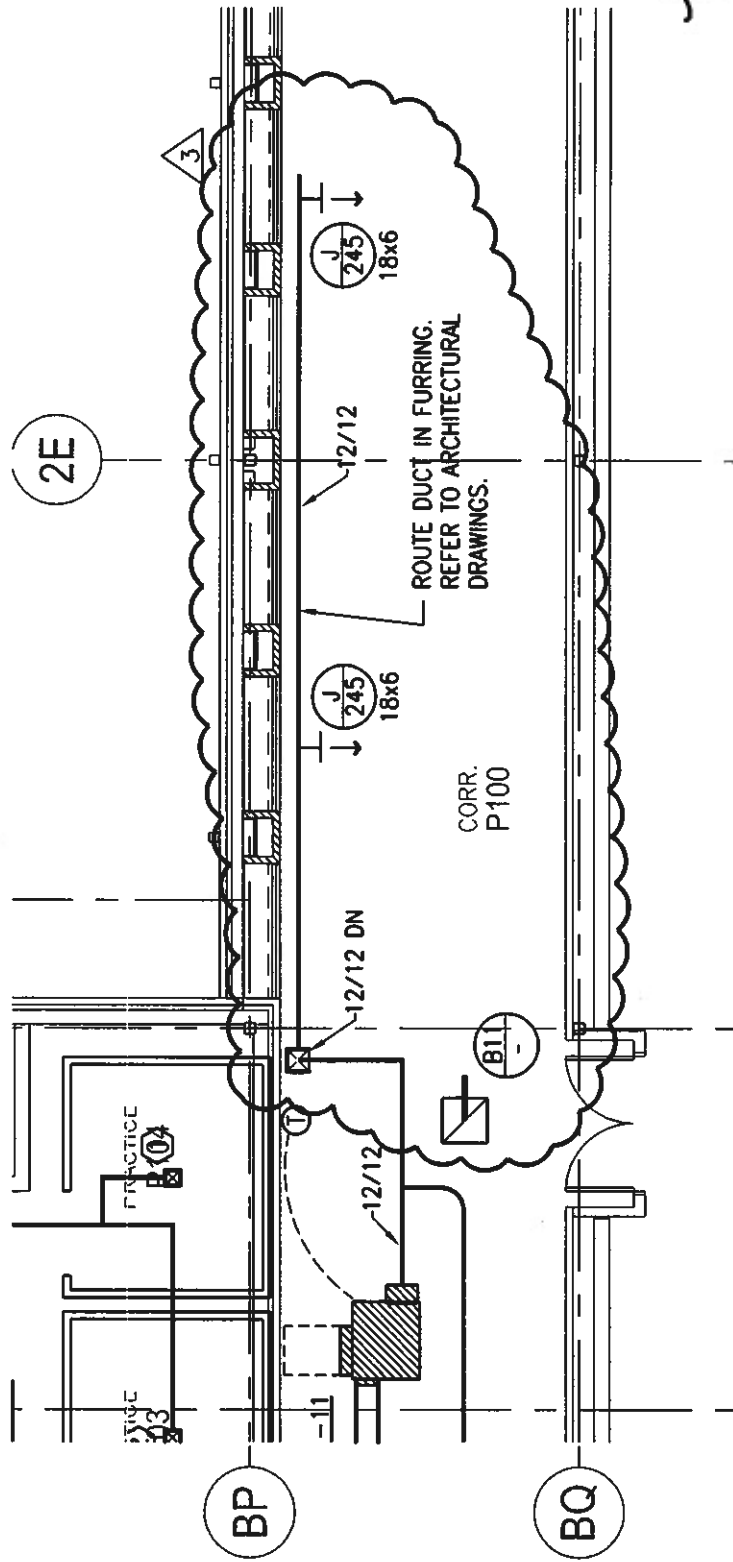
# MECHANICAL FLOOR PLAN UNIT 'C'

**DICKINSON HS ADDITIONS & RENOVATIONS**  
 DICKINSON I.S.D.

**ADD-03-10**  
 0743  
 SCALE: 1/8" = 1'-0"  
 DATE  
 M1.12

**BAY ARCHITECTS**  
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# MECHANICAL PLAN FIRST FLOOR UNIT 'P' AREA 'S'

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**DICKINSON HS ADDITIONS & RENOVATIONS**  
 DICKINSON I.S.D.

ADD-03-12  
 0743  
 SCALE: 1/8" = 1'-0"  
 DATE  
 M1.14



(SECTION-3)

PANEL '2LB'		120/208V.,3PH.,4W.				MOUNTING: SURFACE NEMA-1 10 K ISCA				
LOCATION: MECHANICAL N270		300 AMP MLO								
CKT	LOAD	KVA	WIRE	BKR		BKR	WIRE	KVA	LOAD	CKT
85	COPIER	0.5	#12	20/1	⌋	20/2	#12	1.0	COPIER	86
87	TV	0.5	#12	20/1	⌋	20/2	#12	-	- - -	88
89	RECEPTACLES	0.4	#12	20/1	⌋	20/1	#12	0.8	EF-35 (1/3HP)	90
91	COMP. RECEPTACLES	0.7	#12	20/1	⌋	20/1	#12	0.7	COMP. RECEPTACLES	92
93	COMP. RECEPTACLES	0.7	#12	20/1	⌋	20/1	#12	0.7	COMP. RECEPTACLES	94
95	RECEPTACLES	0.2	#12	20/1	⌋	30/1	#10	1.2	EF-36 (1/2HP)	96
97	RECEPTACLES	0.5	#12	20/1	⌋	20/1	#12	0.2	CHEM. RECEPTACLES	98
99	CHEM. RECEPTACLES	0.2	#12	20/1	⌋	20/1	#12	0.2	CHEM. RECEPTACLES	100
101	CHEM. RECEPTACLES	0.2	#12	20/1	⌋	20/1	#12	0.7	COMP. RECEPTACLES	102
103	EF-24 (3/4HP)	1.2	#10	30/1	⌋	20/1	#12	0.7	COMP. RECEPTACLES	104
105	COMP. RECEPTACLES	0.7	#12	20/1	⌋	20/1	#12	0.2	CHEM. RECEPTACLES	106
107	COMP. RECEPTACLES	0.7	#12	20/1	⌋	20/1	#12	0.2	CHEM. RECEPTACLES	108
109	COMP. RECEPTACLES	0.7	#12	20/1	⌋	20/1	#12	0.2	CHEM. RECEPTACLES	110
111	COMP. RECEPTACLES	0.7	#12	20/1	⌋	20/1	#12	0.2	CHEM. RECEPTACLES	112
113	EF-29 (1/2HP)	1.2	#10	30/1	⌋	20/1	#12	0.5	DISHWASHER	114
115	REFRIDGERATOR	1.0	#12	20/1	⌋	20/1	#12	1.2	EF-32 (1/2HP)	116
117	EF-25 (1/2HP)	1.2	#12	20/1	⌋	20/1	#12	0.2	CHEM. RECEPTACLES	118
119	CHEM. RECEPTACLES	0.2	#12	20/1	⌋	20/1	#12	0.2	CHEM. RECEPTACLES	120
121	CHEM. RECEPTACLES	0.2	#12	20/1	⌋	20/1			SPARE	122
123	SPARE			20/1	⌋	20/1			SPARE	124
125	SPARE			20/1	⌋				SPACE	126

CONTINUOUS (LTG.) LOAD x 1.25 = 0 KVA  
 MISC. LOAD x 1.0 = 72.1 KVA  
 TOTAL KVA = 72.1 KVA

1

1

2

3

3

- 1 CONTROLLED VIA CONTACTOR 'C-6'
- 2 CONTROLLED VIA CONTACTOR 'C-7'
- 3 CONTROLLED VIA CONTACTOR 'C-8'



# ELECTRICAL PANEL SCHEDULE



**BAY ARCHITECTS**  
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 HOUSTON, TEXAS 77289  
 281.286.6605

DICKINSON HS ADDITIONS & RENOVATIONS  
 DICKINSON I.S.D.

ADD-03-13  
 0743  
 SCALE: 1/8" = 1'  
 02/12/2010  
 E5.03

# PANEL '2LBA' 120/208V.,3PH.,4W.

MOUNTING: SURFACE  
NEMA-1  
10 K ISCA

LOCATION: MECHANICAL N270 100 AMP MLO

CKT	LOAD	KVA	WIRE	BKR		BKR	WIRE	KVA	LOAD	CKT
1	CHEM RECEPTACLE	0.2	#12	20/1	○	20/1	#12	0.2	CHEM RECEPTACLE	2
3	CHEM RECEPTACLE	0.2	#12	20/1	○	20/1	#12	0.2	CHEM RECEPTACLE	4
5	CHEM RECEPTACLES	0.7	#12	20/1	○	20/1	#12	0.7	CHEM RECEPTACLES	6
7	CHEM RECEPTACLES	0.7	#12	20/1	○	20/1	#12	0.7	CHEM RECEPTACLES	8
9	CHEM RECEPTACLES	0.7	#12	20/1	○	20/1	#12	0.7	CHEM RECEPTACLES	10
11	GFI RECEPTACLE	0.2	#12	20/1	○	20/1	#12	0.2	GFI RECEPTACLE	12
13	GFI RECEPTACLE	0.2	#12	20/1	○	20/1	#12	1.2	EF-26 (1/2HP)	14
15	EF-22 (1/2HP)	1.2	#12	20/1	○	20/1	#12	1.2	EF-30 (1/2HP)	16
17	EF-33 (1/2HP)	1.2	#12	20/1	○	20/1			SPARE	18
19	SPARE			20/1	○	20/1			SPARE	20
21	SPARE			20/1	○	20/1			SPARE	22
23	SPARE			20/1	○	20/1			SPARE	24
25	SPARE			20/1	○	20/1			SPARE	26
27	SPARE			20/1	○	20/1			SPARE	28
29	SPARE			20/1	○	20/1			SPARE	30
31	SPACE				○				SPACE	32
33	SPACE				○				SPACE	34
35	SPACE				○				SPACE	36
37	SPACE				○	20/1	#6	-	TVSS/ SPARE	38
39	SPACE				○			-	---	40
41	SPACE				○			-	---	42

CONTINUOUS (LTG.) LOAD x 1.25 = 0 KVA  
MISC. LOAD x 1.0 = 10.4 KVA  
TOTAL KVA = 10.4 KVA

① CONTROLLED VIA CONTACTOR 'C-9'



## ELECTRICAL PANEL SCHEDULE



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**DICKINSON HS ADDITIONS & RENOVATIONS** ADD-03-14  
DICKINSON I.S.D. 0743  
SCALE: 1/8" = 1' 02/12/2010  
E5.03

PANEL '1LDA' 120/208V.,3PH.,4W. MOUNTING: SURFACE  
 LOCATION: MECH N104 100 AMP MLO NEMA-1  
 10 K ISCA

CKT	LOAD	KVA	WIRE	BKR		BKR	WIRE	KVA	LOAD	CKT
1	RECEPTACLE	0.2	#12	20/1	~				SPACE	2
3	RECEPTACLES	0.4	#12	20/1	~					4
5	RECEPTACLE	0.2	#12	20/1	~					6
7	RECEPTACLE	0.2	#12	20/1	~					8
9	RECEPTACLES	0.4	#12	20/1	~					10
11	RECEPTACLE	0.2	#12	20/1	~					12
13	SF-3	0.3	#12	30/3	~					14
15	- - -	0.3	#12	20/1	~					16
17	- - -	0.3	#12	-	~					18
19	SF-4	0.3	#12	30/3	~					20
21	- - -	0.3	#12	-	~					22
23	- - -	0.3	#12	-	~					24
25	SPARE			20/1	~					26
27					~					28
29					~					30
31					~					32
33					~					34
35					~					36
37					~	20/1	#6	-	TVSS/ SPARE	38
39					~			-	---	40
41					~			-	---	42

CONTINUOUS (LTG.) LOAD x 1.25 = 0 KVA  
 MISC. LOAD x 1.0 = 3.4 KVA  
 TOTAL KVA = 3.4 KVA



# ELECTRICAL PANEL SCHEDULE

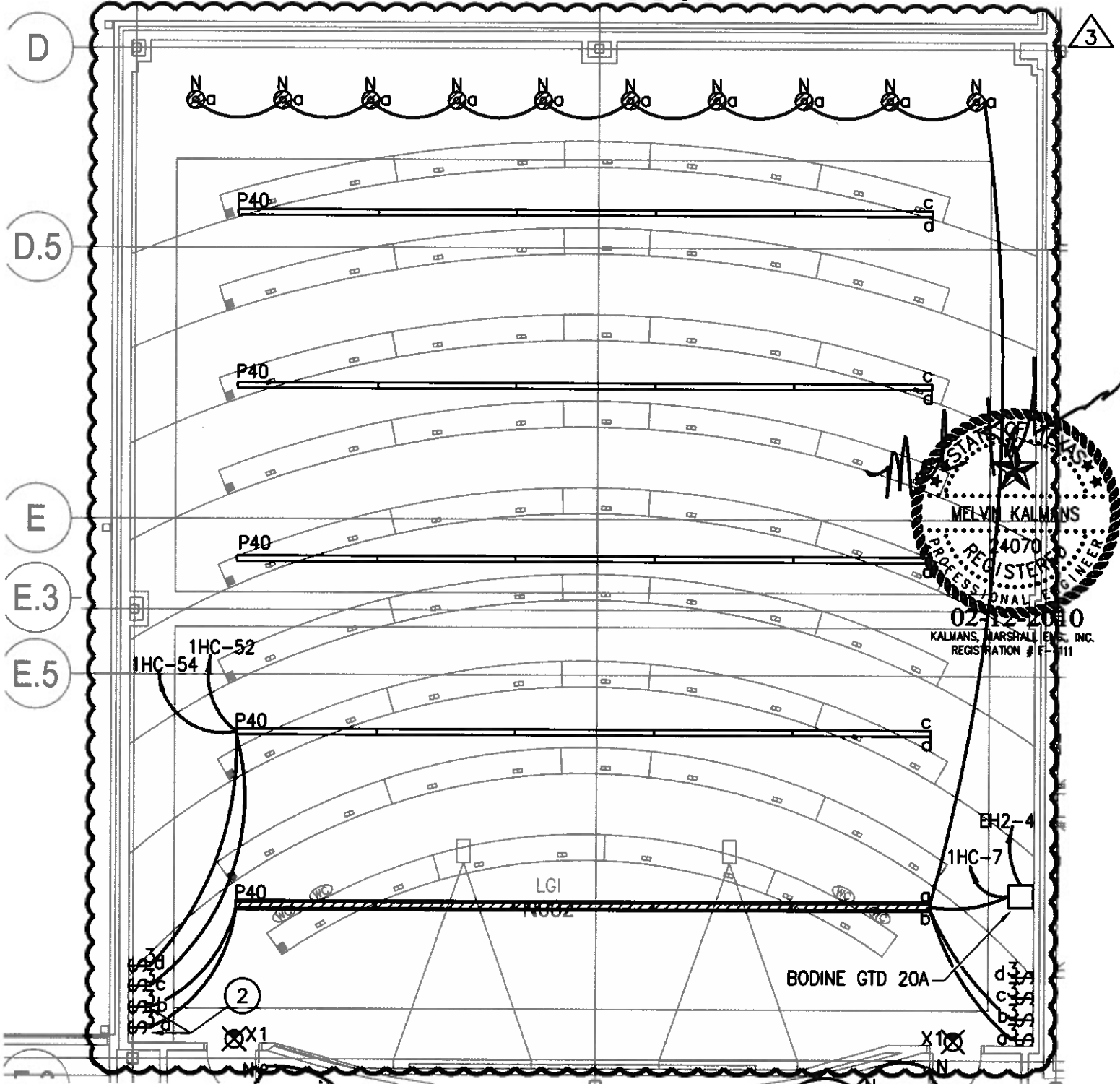


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**DICKINSON HS. ADDITIONS & RENOVATIONS** ADD-03-15  
 DICKINSON I.S.D. 0743  
 SCALE: 1/8" = 1' 02/12/2010  
 E5.04

# PARTIAL ELECTRICAL KEYED NOTES:

③  
 ② SWITCHES 'a' & 'c' CONTROL DOWNLIGHTING PORTION OF LINEAR FLOOR SWITCHES 'b' & 'd' CONTROL UPLIGHTING PORTION.



## ELECTRICAL LIGHTING PLAN AREA 'D' - LGI



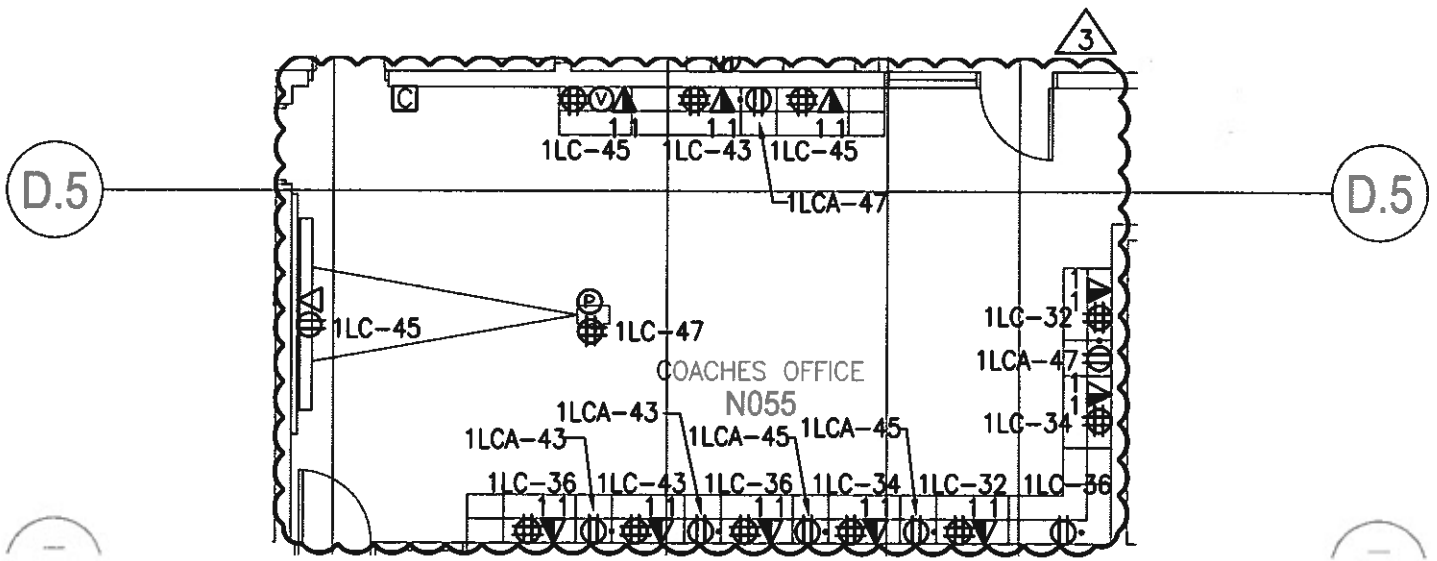
**BAY ARCHITECTS**

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**DICKINSON HS ADDITIONS & RENOVATIONS**  
 DICKINSON I.S.D.

**ADD-03-16**

0743  
 SCALE: 1/8" = 1'  
 02/12/2010  
 E2.04



# ELECTRICAL POWER PLAN FIRST FLOOR AREA 'E'



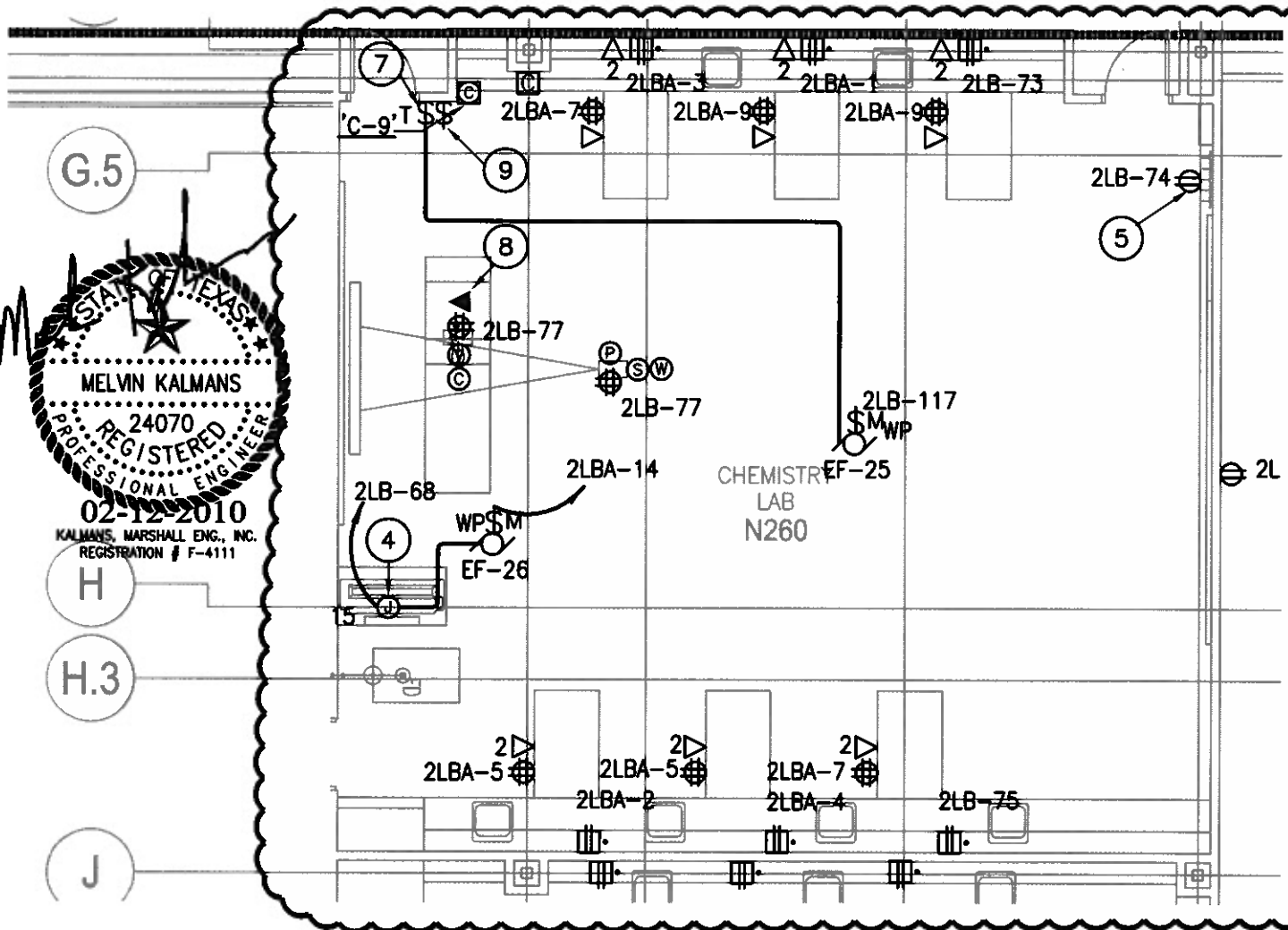
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<b>DICKINSON HS ADDITIONS &amp; RENOVATIONS</b>	<b>ADD-03-17</b>
DICKINSON I.S.D.	0743
	SCALE: 1/8" = 1'
	02/12/2010
	E3.06



# PARTIAL ELECTRICAL KEYED NOTES:

- ⑦ TIMER SWITCH FURNISHED BY DIVISION 15, INSTALLED BY DIVISION 16.
- ⑧ MOUNT DEVICES WITHIN CONFINES OF MILLWORK. COORDINATE EXACT MOUNTING LOCATIONS WITH OWNER/ARCH. PRIOR TO ROUGH-IN.
- ⑨ CONTROL SWITCH FOR CONTACTOR 'C-9'.
- ⑩ CONTROL SWITCH FOR CONTACTOR 'C-6'.
- ⑪ CONTROL SWITCH FOR CONTACTOR 'C-7'.
- ⑫ CONTROL SWITCH FOR CONTACTOR 'C-8'.



## ELECTRICAL POWER PLAN SECOND FLOOR AREA 'G'

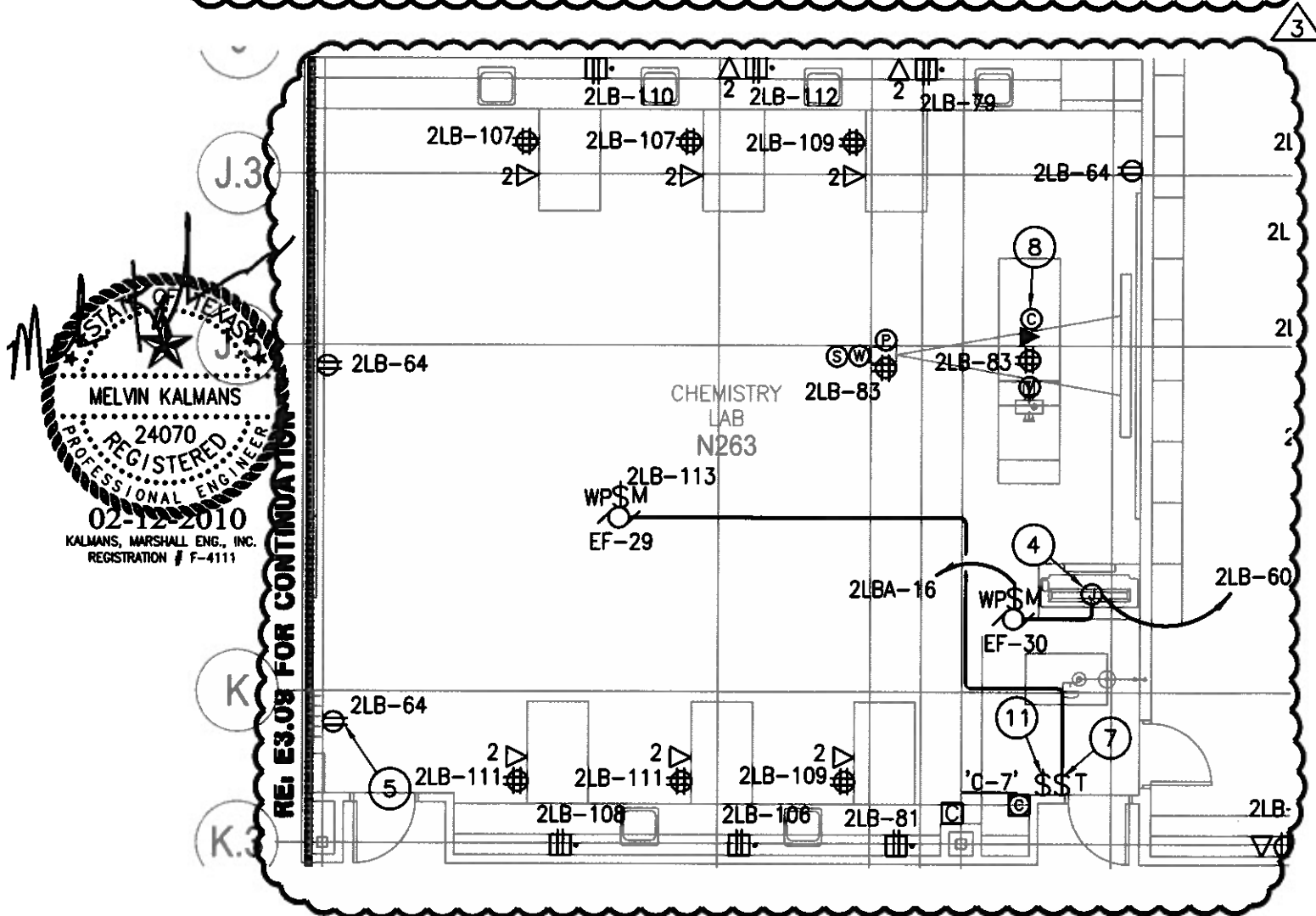


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<b>DICKINSON HS ADDITIONS &amp; RENOVATIONS</b>	<b>ADD-03-19</b>
DICKINSON I.S.D.	0743
	SCALE: 1/8" = 1'
	02/12/2010
	E3.11

# PARTIAL ELECTRICAL KEYED NOTES:

- ⑦ TIMER SWITCH FURNISHED BY DIVISION 15, INSTALLED BY DIVISION 16.
- ⑧ MOUNT DEVICES WITHIN CONFINES OF MILLWORK. COORDINATE EXACT MOUNTING LOCATIONS WITH OWNER/ARCH. PRIOR TO ROUGH-IN.
- ⑨ CONTROL SWITCH FOR CONTACTOR 'C-9'.
- ⑩ CONTROL SWITCH FOR CONTACTOR 'C-6'.
- ⑪ CONTROL SWITCH FOR CONTACTOR 'C-7'.
- ⑫ CONTROL SWITCH FOR CONTACTOR 'C-8'.



## ELECTRICAL POWER PLAN SECOND FLOOR AREA 'G'



**BAY ARCHITECTS**  
 18201 GULF FREEWAY  
 P.O. BOX 891209  
 HOUSTON, TEXAS 77289  
 281.286.6605

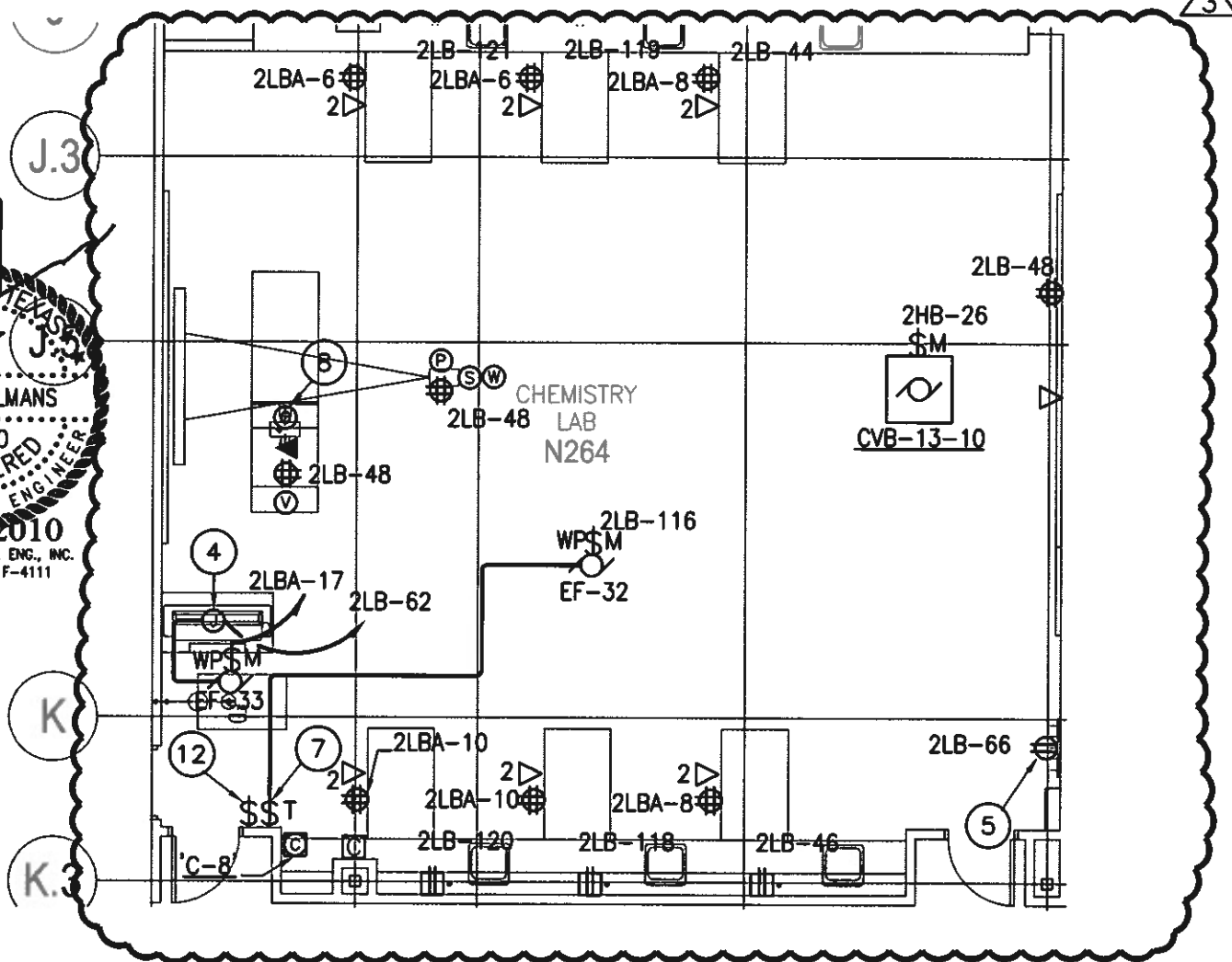
<b>DICKINSON HS ADDITIONS &amp; RENOVATIONS</b>	<b>ADD-03-20</b>
DICKINSON I.S.D.	0743
	SCALE: 1/8" = 1'
	02/12/2010
	E3.11



REF E3.08 FOR CONTINUATION

# PARTIAL ELECTRICAL KEYED NOTES:

- ⑦ TIMER SWITCH FURNISHED BY DIVISION 15, INSTALLED BY DIVISION 16.
- ⑧ MOUNT DEVICES WITHIN CONFINES OF MILLWORK. COORDINATE EXACT MOUNTING LOCATIONS WITH OWNER/ARCH. PRIOR TO ROUGH-IN.
- ⑨ CONTROL SWITCH FOR CONTACTOR 'C-9'.
- ⑩ CONTROL SWITCH FOR CONTACTOR 'C-6'.
- ⑪ CONTROL SWITCH FOR CONTACTOR 'C-7'.
- ⑫ CONTROL SWITCH FOR CONTACTOR 'C-8'.



## ELECTRICAL POWER PLAN SECOND FLOOR AREA 'G'



**BAY ARCHITECTS**

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281.286.6605

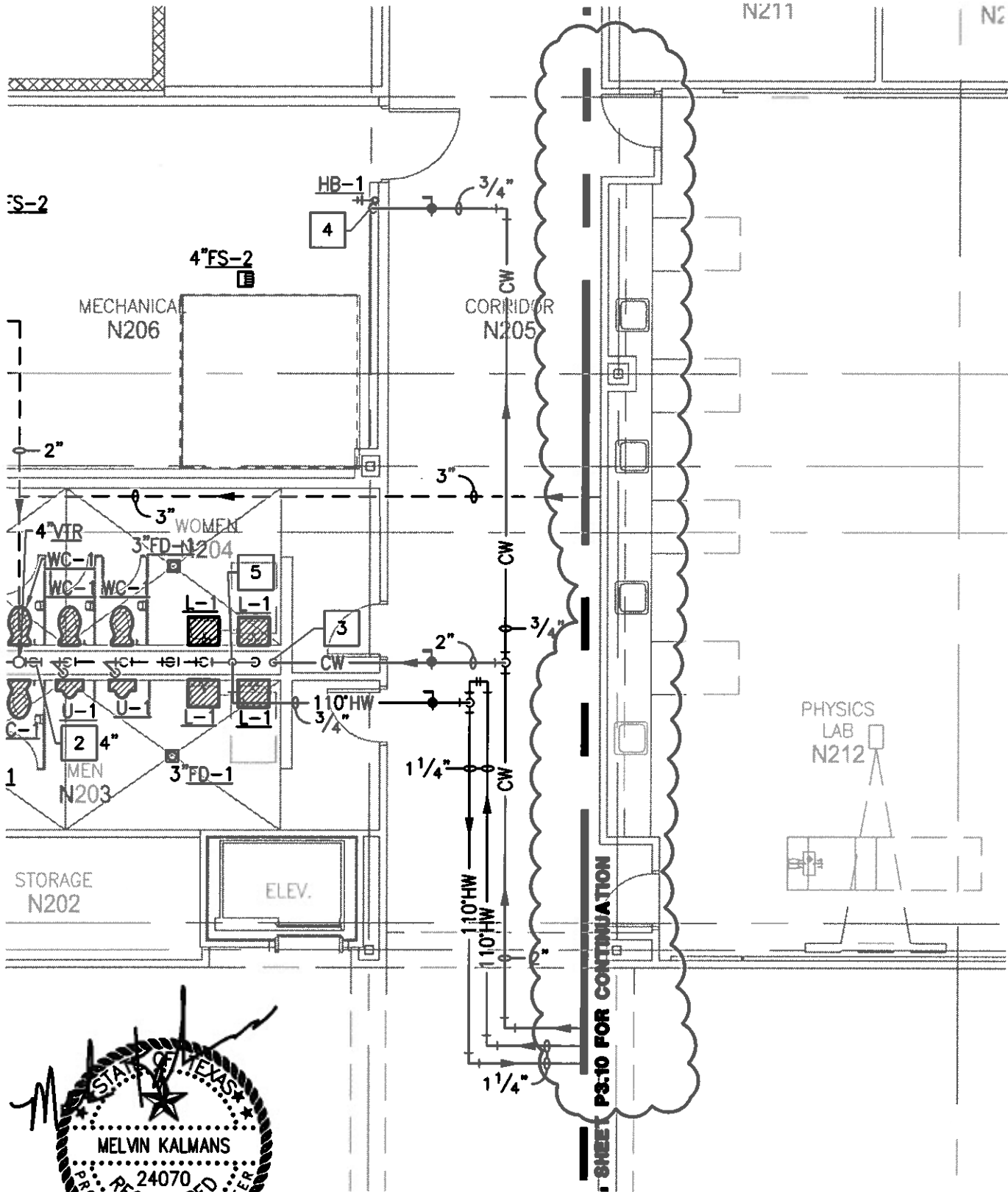
**DICKINSON HS ADDITIONS & RENOVATIONS**  
DICKINSON I.S.D.

**ADD-03-21**

0743  
SCALE: 1/8" = 1'  
02/12/2010  
E3.11

N211

N2



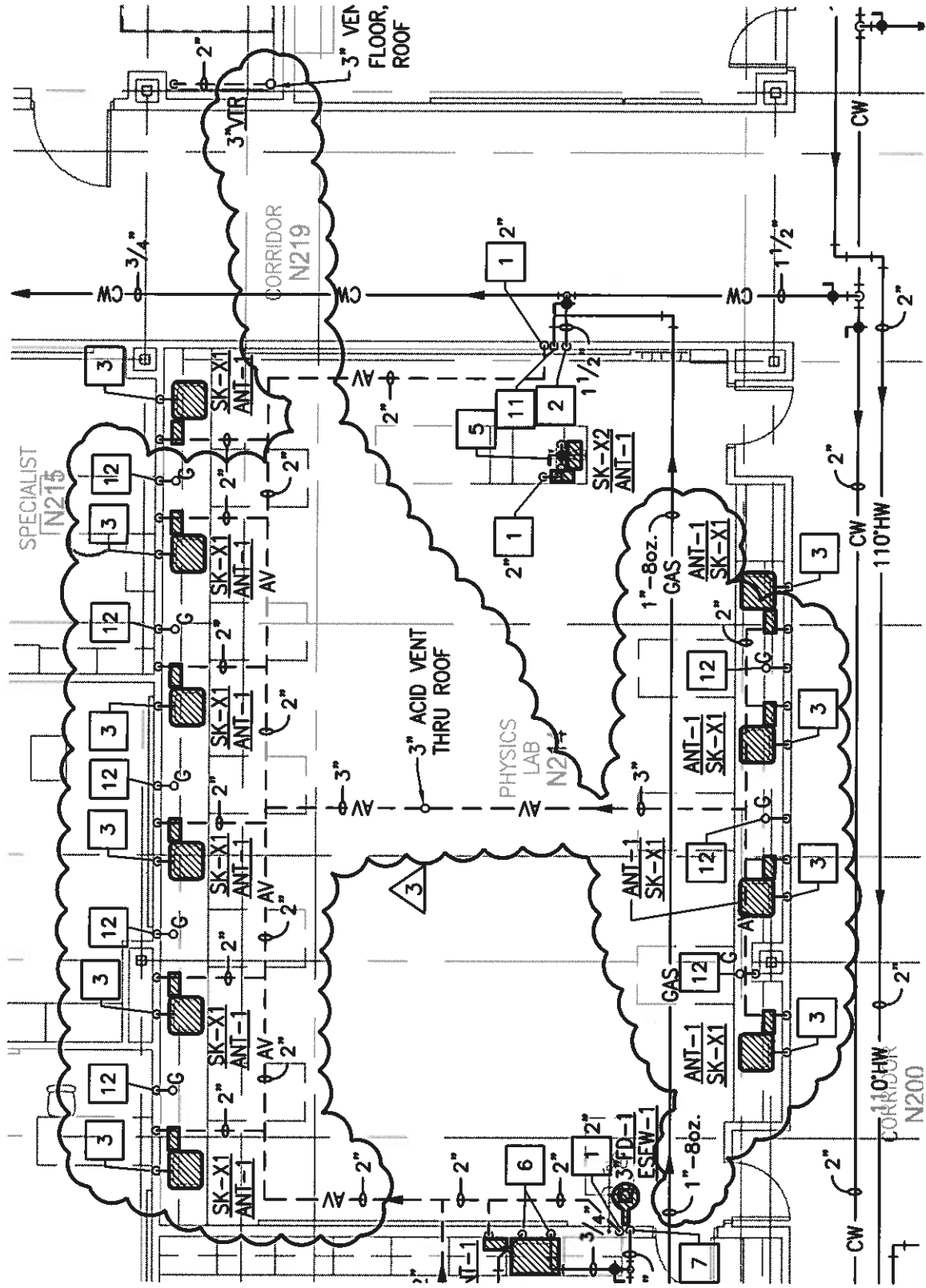
# PLUMBING PLAN SECOND FLOOR-UNIT N-AREA'D'



**BAY ARCHITECTS**  
 18201 GULF FREEWAY  
 P.O. BOX 891209  
 HOUSTON, TEXAS 77289  
 281.286.6605

**DICKINSON HS ADDITIONS & RENOVATIONS**  
 DICKINSON I.S.D.

**ADD-03-22**  
 0743  
 SCALE: 1/8" = 1'  
 02/12/2010  
 P3.08



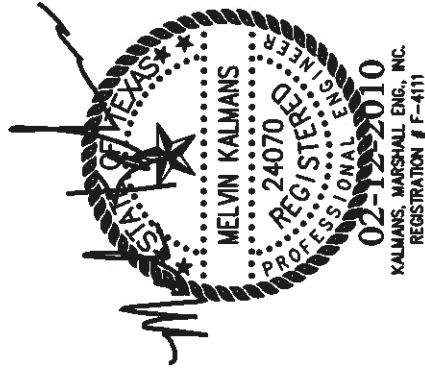
# PLUMBING PLAN SECOND FLOOR UNIT N AREA 'E'



**BAY ARCHITECTS**  
 18201 GULF FREEWAY  
 P.O. BOX 891209  
 HOUSTON, TEXAS 77289  
 281.286.6605

**DICKINSON HS ADDITIONS & RENOVATIONS**  
 DICKINSON I.S.D.

**ADD-03-23**  
 0743  
 SCALE: 1/8" = 1'  
 02/12/2010  
 P3.10



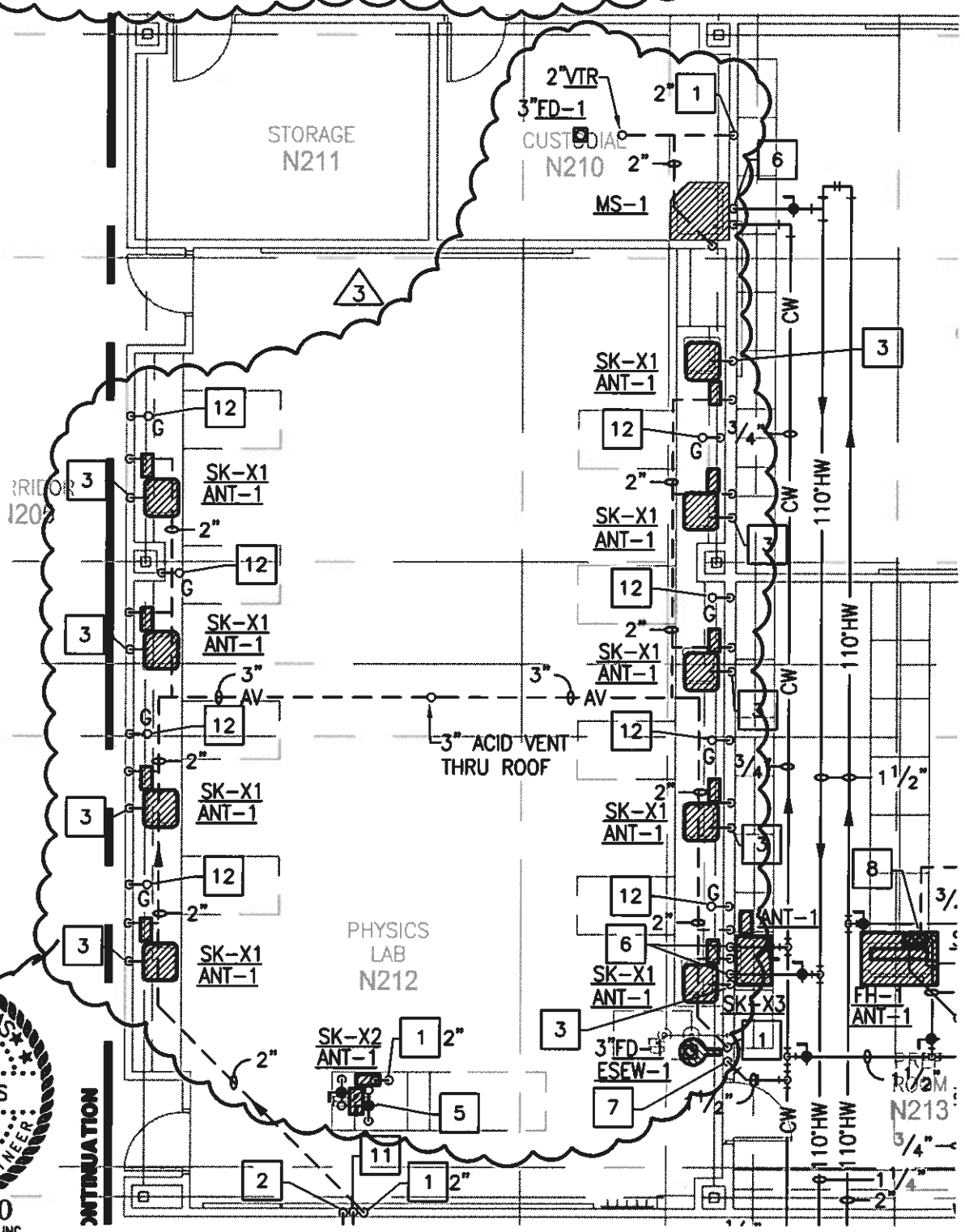
MELVIN KALMANS  
 02-12-2010  
 KALMANS, MARSHALL ENG., INC.  
 REGISTRATION # F-4111

10 2 1/2" CW FROM BELOW FLOOR TO ABOVE CEILING.

3

11 1" GAS TO BELOW FLOOR.

12 1/2" GAS FROM BELOW FLOOR INTO CASE WORK TO GAS TURRET. RE: ARCHITECTURAL DWGS FOR EXACT TURRET LOCATION.

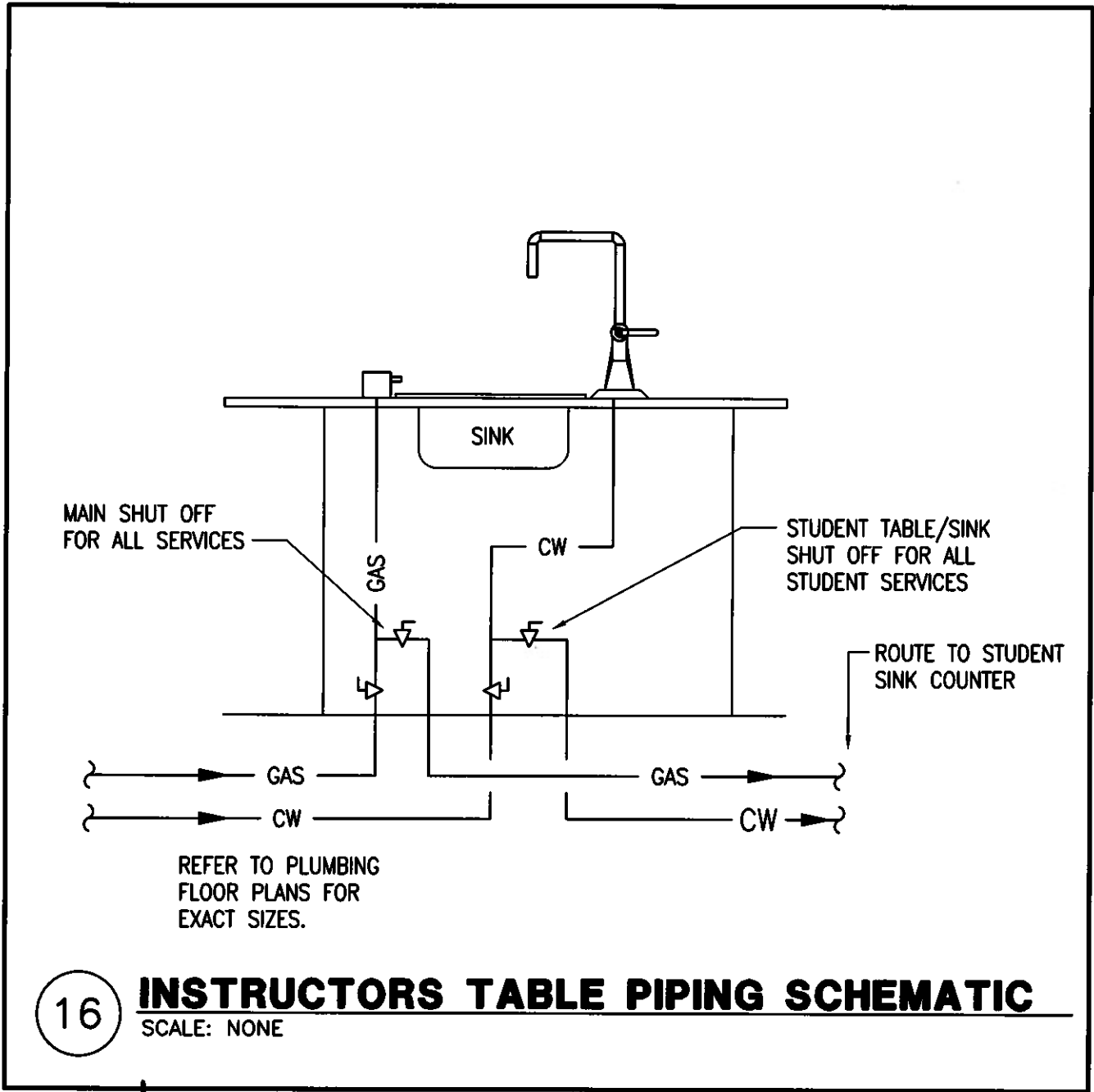


# PLUMBING PLAN SECOND FLOOR UNIT N AREA 'E'



**BAY ARCHITECTS**  
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<b>DICKINSON HS ADDITIONS &amp; RENOVATIONS</b>	<b>ADD-03-24</b>
DICKINSON I.S.D.	0743
	SCALE: 1/8" = 1'
	02/12/2010
	P3.10



16

**INSTRUCTORS TABLE PIPING SCHEMATIC**

SCALE: NONE



**PLUMBING DETAILS**



**BAY ARCHITECTS**

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 281.286.6605

**DICKINSON HS ADDITIONS & RENOVATIONS**  
 DICKINSON I.S.D.

**ADD-03-25**  
 0743  
 NOT TO SCALE  
 02/12/2010  
 P5.01