

August 30, 2018

**ADDENDUM #2**  
**Chestnut Street Records Center**  
**Building and Site Remodeling**  
**138 West Chestnut Street Lancaster, Ohio 43130**

In accordance with the Construction Documents for the above named Project, this ADDENDUM #2, consisting of page 1- 2 and the following PDF attachments:

1. Pre Bid Conference meeting minutes.
2. Cover Sheet
3. Sheet A1.1.
4. Sheet A2.2 Floor Plan.
5. Sheet A3.1 Exterior Elevations.
6. Sheet H-1 HVAC Floor Plan.
7. Sheet H-4 HVAC Schedules
8. Sheet H-5 HVAC Mechanical Specifications
9. Sheet H-6 HVAC - BAS

are hereby made a part of the Construction Documents as if written therein.

## INFORMATION TO BIDDERS

- Item 1. a. Dynamix Energy is the Owner's HVAC building automation system controls provider. Contact Brian Bowers (614-736-2100) or Todd Mace (614-443-1178) with questions you may have.
- Item 2. b. See attached August 23, 2018 Pre Bid Conference meeting minutes.

## CHANGES AND CLARIFICATIONS TO THE DRAWINGS

- Item 1. **SHEET A2.2 FLOOR PLAN AND SHEET A3.1 EXTERIOR ELEVATIONS**  
a. Eliminate one of the EIFS 'medallions' from the west exterior wall at room 121, and add two new windows to this exterior wall in room 121 as illustrated on the attached revised construction document sheets A2.2 and A3.1.
- Item 2. **SHEET A0.2 SITE PLANS**  
a. Add temporary construction fence as required to provide barrier between the construction site and the public.
- Item 3. **SHEET A2.5 PLAN DETAILS**  
a. All Trifab 451 T windows and storefront are to be center glazed as specified on sheet GN.3, Article 0808.D. (Details on sheet A2.5 incorrectly illustrate outside glazed.)



- Item 4.       **SHEET GN.1 GENERAL NOTES**  
a. On sheet GN.1, revise Article 0008.a to say “At least **one** week prior to the onset of construction....”
- Item 5.       **SHEETS A1.1 DEMOLITION PLAN AND A2.2 FLOOR PLAN**  
a. When door and frame 108b are demo’d, enlarge existing masonry opening 6” to the east and replace existing lintel per lintel schedule for new 42” wide door as shown on revised plans. Revise door 108b size to ‘3668’ on the door and hardware schedule on sheet a2.2.
- Item 6.       **COVER SHEET**  
a. Add Sheet H-6 ‘HVAC – BAS’ to the drawing index.
- Item 7.       **SHEET E5 ELECTRICAL SPECIFICATONS**  
a. Article 16705 – Monitoring System (Addressable) – paragraph D: Add ‘Autocall’ as an acceptable manufacturer for the sprinkler monitoring system.
- Item 8.       **SHEET H-1 HVAC FLOOR PLAN**  
a. Add gravity damper controlled bypass ducts for RTU-4 and RTU-5.  
b. Add coded notes for bypass duct and dehumidifier drain piping.  
c. Remove references to Dynamix Software and change descriptions to ‘BAS’.
- Item 9.       **SHEET H-4 HVAC SCHEDULES**  
a. Add stainless steel heat exchanger to RTU-4.  
Add notes for control systems interface with BAS.
- Item 10.      **SHEET H-5 HVAC SPECIFICATIONS**  
a. Add Section 15935 for BAS Controls and Installation  
b. Remove references to Dynamix Software and change descriptions to BAS.
- Item 11.      **SHEET H-6 HVAC-BAS**  
a. Floor plan illustrating BAS control system wiring.

**- End of Addendum #2 –  
See attachments as listed on page one**



August 23, 2018

**ARCHITECT'S MEETING NOTES  
PRE BID CONFERENCE  
CHESTNUT STREET RECORDS CENTER**

1. **Sign in** – all contact info
  - a. Legibly – this is what I'll use to send out the addendum
2. **Project Overview**
  - a. **Review Floor Plan**
  - b. **Careful coordination of all above ceiling work.**
    - i. Existing sprinkler mains staying in place
      1. (unless you want to move them)
3. **Addendum Items** –
  - a. get to me in writing by email or fax
    - i. No phone calls, no conversations here... I am not responsible to remember verbal
    - ii. I'll email addendum to everyone who signed in to Pre Bid Conference
4. **Form of Proposal** – included in Owner's Invitation To Bid
5. **Bids due** next Friday (8-31-18) at 2:00 in Commissioner's office third floor of Courthouse.
  - a. **This date was revised by Revised Addendum #1, dated 8-27-18.**
6. **Public bid opening**
7. **Pre Construction Submittals**
  - a. **The due date for these items was incorrectly stated during the meeting. They actually are due no less than one week prior to the onset of construction, as clarified in Addendum #2.**
  - b. Site Utilization Plan
    - i. Job trailer
    - ii. Parking
    - iii. Deliveries
    - iv. Equipment
    - v. Crane
  - c. Project Schedule
    - i. Delivery of Materials
    - ii. Shop drawing submittals
    - iii. Job Progress meeting dates
    - iv. Start and finish dates of all facets of the work (broken out by trade, rough-in, finish, etc)
    - v. Substantial Completion date
    - vi. Punch list completion



August 23, 2018

**PRE BID CONFERENCE**

**CHESTNUT STREET RECORDS CENTER**

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- d. Schedule of values - AIA 6703
    - i. Detailed – labor and materials
    - ii. Break each trade down by CSI divisions
  - e. Resumes of proposed in-house PM and on-site superintendent
8. **Project Timeline – these dates have been revised by Revised Addendum #1, dated 8-27-18.**
- a. Award Contract – Tuesday September 11
  - b. Notice to proceed – Tuesday September 18. (one week from award)
    - i. Successful bidder needs to hop on:
      - 1. contract
      - 2. site utilization plan
      - 3. schedule of values
      - 4. project schedule
  - c. Owner Occupancy – March 2, 2019 (23 weeks from notice to proceed)
  - d. Hop on it and get most of exterior work down before winter
  - e. Empty building -- nice inside job for winter
9. **Job Progress meetings** – every two weeks, on site
- a. GC runs meeting
  - b. GC takes meeting minutes
  - c. GC distributes meeting minutes within two days of meeting
  - d. GC distributes proposed progress meeting agenda two days prior to meeting date
  - e. See specs for further info re meetings
10. **GC superintendent to be on site** every minute that any work is being done.
- a. Each major trade to have their supervisor on site any time their work is being done.
  - b. Superintendent and supervisors need to be fluent in English.
11. **Pay requests** to the Architect same time every month
- a. Submit with current and honest updated schedule of values.
12. **Change Order Requests** (Bulletins) with sufficient back up to the Architect
- a. Submit these for approval
  - b. Then submit Change Order before the contemplated work is begun –
    - i. don't start the work until Owner gives written approval of the change order.
  - c. Don't wait til you're done with that portion of the project and then submit the change order – I won't approve it under those circumstances.
13. **Site Utilization**
- a. Public parking in NW corner of parking lot
    - i. Need construction fence to separate
    - ii. All site entry will be thru east parking lot driveway or via alleys.
  - b. Keep streets and alley free of mud and debris
  - c. Pick up trash on site and in the building every day.
  - d. Site utilization
    - i. Porta Potties
    - ii. Job Trailer
    - iii. Construction dumpster
    - iv. Deliveries



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**PRE BID CONFERENCE**

**CHESTNUT STREET RECORDS CENTER**

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- v. Equipment and material storage
- vi. Employee parking all on site – none in the street

**14. Golden Rule – When in doubt, check it out. It's better to ask permission than forgiveness!**

**15. Building Tour**

- a.** Interior / Roof / Exterior







1. REMOVE EXISTING DRYWALL PARTITION WHERE SHOWN DOTTED.
2. REMOVE AND SAVE/SAVE EXISTING DOOR (SHOWN DOTTED). REFACE (OR TRACK) AND HANGWARE. TURN OVER TO OWNER.
3. REMOVE EXISTING HANG AND PARTIAL BASE IN THE ROOM (UNLESS NOTED OTHERWISE). REMOVE ALL TRACES OF FLOORING ADHESIVE FROM EXISTING SLAB.
4. REMOVE EXISTING GYMN LIFT GATE AND POSTS.
5. REMOVE EXISTING DOCK LATCHER (SHOWN DOTTED).
6. REMOVE EXISTING RETAINING WALL, RAILING, BOLARDS, RAMP PAVING, RETAINING WALL, FENCING, AND DOCK SHEETS AT EXISTING DOCKING DOCK.
7. REMOVE EXISTING EXTERIOR WALL AND PARTIAL BASE IN THE ROOM (UNLESS NOTED OTHERWISE). REMOVE ALL TRACES OF FLOORING ADHESIVE FROM EXISTING SLAB.
8. REMOVE EXISTING BOLING OR OVERHEAD DOOR, FRAME (OR TRACK) AND HARDWARE WHERE SHOWN DOTTED. UNLESS OTHERWISE NOTED, OR SHOWN.
9. REMOVE ALL TRACES OF FLOORING ADHESIVE.
10. REMOVE EXISTING EXTERIOR WALL, PARTIAL BASE AND VINYL BASE THIS ROOM, REFRIGERATOR, AND ALL OTHER RESTROOM ACCESSORIES.
11. REMOVE EXISTING EXHAUST FAN AND LOUVER.
12. REMOVE EXISTING MOOD FIELD.
13. REMOVE EXISTING WINDOW DRYWALL JAMBES AND HEAD, INTERIOR SILL, AND EXTERIOR SILL/CAULK.
14. REMOVE EXISTING EXTERIOR WALL AND VINYL BASE IN THIS ROOM.
15. REMOVE EXISTING SHEET VINYL FLOORING AND VINYL BASE IN THIS ROOM.
16. REMOVE ALL TRACES OF FLOORING ADHESIVE.
17. REMOVE EXISTING DOCK SHEET.
18. REMOVE EXISTING SCHEDULED ACOUSTICAL CEILING THIS ROOM (UNLESS OTHERWISE NOTED). SAVE RYMOOD HANGCOT PANELS FROM TILL LENGTH OF EXISTING WALL. TURN OVER TO OWNER.
19. REMOVE EXISTING WALL SHELVING.
20. REMOVE EXISTING STEEL RAMP (SCHEDULED FROM ROOF STRUCTURE).
21. REMOVE EXISTING MOOD BLOCKING FROM MASONRY WALL ADJACENT TO EXISTING HANGCOT OPENING.
22. REMOVE EXISTING EXTERIOR WALL, PARTIAL BASE AND FLOORING.
23. REMOVE EXISTING GYM FRIED VISION PANEL, AND TRIN.
24. REMOVE EXISTING WHITE MARKER BOARD. STORE INSIDE BLDG PER OWNER'S INSTRUCTIONS.
25. REMOVE EXISTING CONVEYOR AND WORK TABLE. STORE INSIDE BLDG PER OWNER'S INSTRUCTIONS.
26. REMOVE EXISTING 4" x 6" TACKBOARD. STORE INSIDE BLDG PER OWNER'S INSTRUCTIONS.
27. REMOVE EXISTING HANGING AND PARTIAL AT PERIMETER MASONRY WALL WHERE SHOWN DOTTED.
28. REMOVE EXISTING COLUMN LOCATION. - F.V.
29. REMOVE EXISTING DOCKING.
30. REMOVE EXISTING EXTERIOR WALL, PARTIAL BASE, TRIN OVER TO OWNER.
31. REMOVE PORTION OF EXISTING NON-LOAD BEARING CONCRETE WALL (TILL HEAD) DOWN TO & BELOW TOP OF EXISTING FLOOR SLAB WHERE SHOWN DOTTED.

32. WALL ABOVE TO REBARN.
33. REMOVE EXISTING STOREFRONT WINDOW AND FRAMES.
34. DIRECTION OF EXISTING ROOF 10/15.
35. EXISTING ROOF LOAD-BEARING STRUT BEAM TO BE REMOVED AND REPLACED AS SHOWN ELSEWHERE. PROVIDE SHORING FOR ROOF STRUTTING AS REQUIRED UNTIL REMOVAL OF EXISTING ROOF.
36. REMOVE EXISTING CONCRETE PORCH STEPS, RAMP (IF APPLICABLE) FOUNDATION WALLS, FOOTINGS AND RAILINGS.
37. REMOVE EXISTING CONCRETE SIDEWALK BETWEEN PORCH TO EXISTING SIDEWALK AT STREET. SIDEWALK ADJACENT TO STREET IS TO REMAIN.
38. PROVIDE EXISTING VISIBLE STRUCTURE, FOUNDATIONS, STOREFRONT SLAB, EXISTING ROOF, EXISTING BEAM TO REMAIN.
39. REMOVE ALL HEIGHT PORTION OF EXISTING LOAD-BEARING MASONRY WALL DOWN TO 8' BELOW CONCRETE FLOOR SLAB WHERE SHOWN DETAIL. PROVIDE SHORING FOR ROOF STRUCTURE AS REQUIRED UNTIL NEW STRUCTURAL WORK IS UNDERPAHEN HERE PER THESE DRAWINGS.
40. PROVIDE EXISTING COUNTER AND GATE.
41. REMOVE EXISTING MASONRY WALL (SHOWN DETAIL) FOR NEW WINDOW AFTER CONSTRUCTION OF DOORWAYS. ALL INTERIOR BRICK IS TO REMAIN EXCEPT AFTER CONSTRUCTION. DO NOT DAMAGE OR DAMAGE ANY EXISTING INTERIOR WOODS OR BRICK. ALL DECK WORK FOR INSTALLATION OF NEW 10' LIMITS IS TO BE UNDERPAH AT THE EXTREMES AND MIDDLE JUNCTIONS. REPALE EXISTING POST INDICATOR VALVE PER ENGINEERING DRAWINGS.
42. EXISTING CONCRETE DRIVEWAY PER PLANNING BOARD.
43. TURN EXISTING REFRIGERATOR OFF TO POWER.
44. TURN EXISTING REFRIGERATOR WALL AND/OR CIMER.
45. DETAIL. PROVIDE TEMPORARY SHORING WHERE LOAD BEARING. SAVE EXISTING BRICK FOR REINSTALLATION WHERE NEEDED AT NEW 10' JAMB AS REQUIRED.
46. REMOVE EXISTING ROOFING AND BRICK SHOWN STRUCTURE AS REQUIRED. PROVIDE EXISTING ROOFING AND BRICK SHOWN STRUCTURE AS REQUIRED.
47. TRACKS OF LOOKING ADHESIVE / GROUT.
48. REMOVE EXISTING GASKET TILE FLOORING THIS ROOM. REMOVE ALL TRACKS OF FLOORING ADHESIVE / GROUT.
49. REMOVE EXISTING WALL PAPER FROM THIS WALL.
50. EXISTING ROOF SPACE EXPOSED AND COVER FLAT TO REBARN.
51. EXISTING ROOF SPACE EXPOSED AND COVER WALL FOR NEW DOOR 10'20' AND LIMITS.
52. REMOVE EXISTING ROOF TAILING.
53. REMOVE EXISTING HATCHER BOARD.
54. REMOVE PORTION OF EXISTING MASONRY WALL BELOW AND ABOVE EXISTING DETAILING AND AS SHOWN ON SECTION 14/14. PROVIDE SHORING AS NEEDED UNTIL NEW DOOR IS IN PLACE.
55. REMOVE EXISTING DETAIL FROM FACE OF MASONRY WALL.
56. REMOVE EXISTING WINDOW.

## DEMO PLAN GENERAL NOTES

ISSUE	MARK	DATE
REVIEW		11-29-17
REVIEW		5-31-18
PRELIM		6-15-18
REVIEW		7-12-18
PERMIT		8-4-18
ADDITIONAL #2 REVISION	1	8-30-18

Stephen M. Luchtenberg  
License No. 8546  
Expiration Date: December 31, 2019

# SELECTIVE DEMOLITION PLAN

DRAWING NUMBER

## A1.1

# CHESTNUT STREET RECORDS CENTER BUILDING AND SITE REMODELING

for the FAIRFIELD COUNTY COMMISSIONERS 138 W. Chestnut

138 W. Chestnut St. Lancaster, OH 43130



NOTE: COORD WITH ELECTRICAL DWGS FOR ANY ADDITIONAL ELECTRIFIED LOCK-RELATED WIRING AND / OR DOOR AND FRAME PREP THAT IS NOT NOTED HERE THAT MAY BE REQ'D.

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## NOTES

## NOTES

## GLASS TYPES

## GLASS TYPES

## FINISH SCHEDULE

## FINISH SCHEDULE

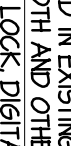
NOTE: COORD WITH ELECTRICAL DWGS FOR ANY ADDITIONAL

NOTE: COORD WITH ELECTRICAL DWGS FOR ANY ADDITIONAL



LOCK, DIGITAL

- LOCK, DIGITAL



## NOTES

## NOTES

## NOTES

- ## NOTES

## **SCHEDULE**

## **SCHEDULE**

## ACKS IN POWER WASH

## ACKS IN POWER WASH

LOCK, DIGITAL

- LOCK, DIGITAL

SELECTED.  
RIM BOARD

SELECTED.  
RIM BOARD



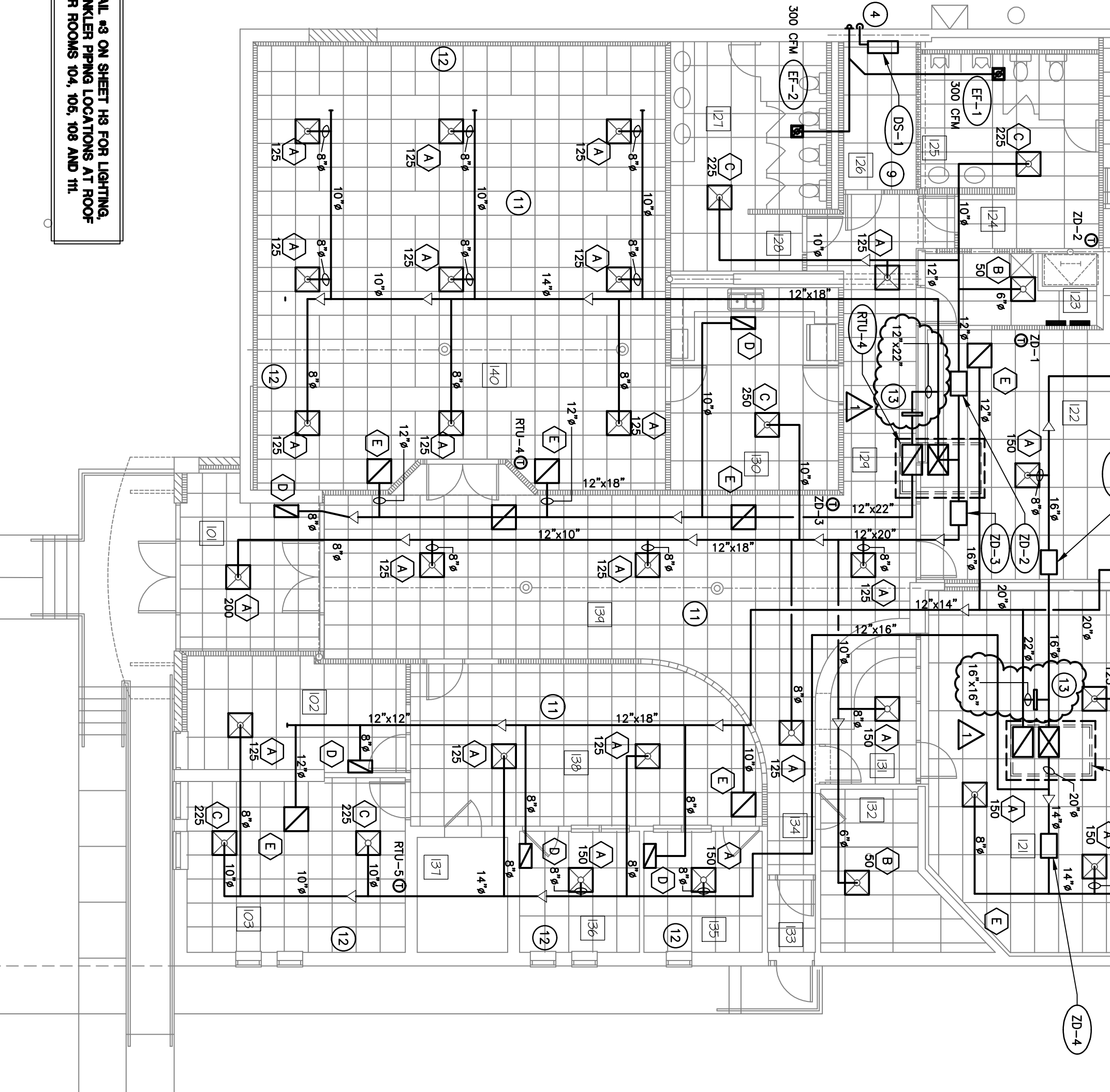




	RECTANGULAR OR ROUND DUCTWORK ABOVE TRUSS LEVEL (THRU OR BETWEEN TRUSSES). INSIDE DIMENSION NOTED ON PLAN.
	RECTANGULAR OR ROUND DUCTWORK BELOW TRUSS LEVEL. INSIDE DIMENSION NOTED ON PLAN.
	EXISTING DUCTWORK OR EQUIPMENT (TA) TO BE DEAERATED OR REBED IN ANOTHER LOCATION.
	ITEM TO BE RELOCATED TO THIS POSITION.
	ELBOW WITH TURNING VANES
TRANSITION	TRANSITION
	MANUAL BALANCING DAMPER
	SPIN-IN-FITTING WITH AIR SCOOP AND VOLUME DAMPER
	DUCT RISE
	ELBOW, TURNED UP
	ELBOW, TURNED DOWN
	SUPPLY AIR
	RETURN AIR
	EXHAUST AIR
	DIAMETER (ROUND)
	SENSOR
	THERMOSTAT
	AIR DEVICE SYMBOL WITH GPM
	CODED NOTE SYMBOL. SEE SCHEDULES AND/OR NOTES.
	EQUIPMENT NOTE SYMBOL. SEE SCHEDULES AND/OR NOTES.
	ABOVE FINISHED FLOOR
	ABOVE
	A.F.F.
	A.B.
	C.G.
	F.L.R.
	G.C.
	P.C.
	H.C.
	E.C.
	S.A.
	R.A.
	O.A.
	E.H.
	E.X.
	EXISTING
	MOUNT. (M.D.), MOUNTED. (M.C.), MOUNTING.

<p>AS REQUIRED BY FIELD CONDITIONS (SPECIFICALLY THRU MEANS OF CLOSURES, JOISTS OR ATIC RISES), THE HVAC CONTRACTOR SHALL HAVE THE OPTION OF USING EQUIVALENT DUCT SIZES IN LIEU OF SIZES SHOWN ON PLAN.</p>	
6" ROUND	12x3, 8x4, 6x5
8" ROUND	10x4, 12x6, 10x6
10" ROUND	20x5, 16x6, 12x7, 10x8, 9x9
12" ROUND	24x6, 18x7, 16x8, 14x9, 12x10
14" ROUND	28x7, 22x8, 18x10, 14x12
16" ROUND	30x8, 24x10, 18x12, 16x14
18" ROUND	30x10, 24x12, 20x14, 18x16
20" ROUND	36x10, 30x12, 26x14, 22x16, 20x18
22" ROUND	36x12, 30x14, 26x16, 24x18, 20x20
24" ROUND	46x12, 36x14, 32x16, 28x18, 24x20, 22x22
26" ROUND	46x14, 38x16, 34x18, 30x20, 26x22, 24x24

- A. DUCT LAYOUTS ARE SCHEMATIC. FIELD COORDINATE ALL DUCT RUNS (PRIOR TO CONSTRUCTION) TO BE AVOIDED FOR DUCT REVISIONS CAUSED BY LACK OF COORDINATION.
- B. BEFORE ALL WORK IN ACCORDANCE WITH APPLICABLE CODES, RULES, AND REGULATIONS OF LOCAL, STATE AND FEDERAL AUTHORITIES OF JURISDICTION.
- C. ALL DUCTWORK AND PIPING IN THE EQUIPMENT, HALF OF THE BUILDING (STORAGE DUCTS) WORKING ROOMS SHALL BE CROSSED UNLESS NOTED OTHERWISE. DUCTWORK AND PIPING IN THE NORTHERN HALF OF THE BUILDING WILL BE ABOVE THE LAY-IN CEILING. PROVIDE ALL EQUIPMENT NECESSARY FOR HANDING DRYERS AND SHAKES.
- D. SUPPLY AND RETURN AIR DUCTING SHALL BE INSULATED WITH 1" THICK RIGID DUCT-BOARD. ALL FITTINGS AND ELBOWS SHALL BE INSULATED STEEL METAL.
- E. VERIFY EXACT LOCATION OF ROOFTOP EQUIPMENT PRIOR TO INSTALLATION. COORDINATE PREFERENCES WITH ROOFTOP CONTRACTOR.
- F. ROUTE ALL DUCTING BETWEEN TRUSSESS OR JOISTS WHERE POSSIBLE.
- G. VERIFY EXISTING CONDITIONS PRIOR TO BID AND START OF WORK.
- H. COORDINATE AND SCHEDULE ALL WORK WITH OTHER TRADES AND ARCHITECT.
- I. ALL DUCT SIZES ARE INSIDE DIMENSIONS.
- J. ALL THERMOSTAT LOCATIONS TO BE FIELD VERIFIED AND COORDINATED WITH ARCHITECT.
- K. COORDINATE ALL EQUIPMENT AND DUCT RUNS WITH STRUCTURE, LIGHTS, CEILING, CONDUIT, PIPING, AND OTHER EQUIPMENT.
- L. COORDINATE EXACT LOCATION OF ALL AIR DEVICES WITH LIGHTING PLAN AND REFLECTED CEILING PLAN.
- M. ALL ROUND BRANCH DUCT TWO-OFFS SHALL BE MADE WITH BELL-MOUTH FITTINGS WITH ADJUSTABLE VOLUME DAMPER.
- N. FLEXIBLE DUCTWORK SHALL BE USED ONLY AT CONNECTION TO LAY-IN AIR DEVICES. (3'-0" MAX. LENGTH). FLEXIBLE DUCTWORK SHALL NOT BE USED AT LOCATIONS THAT PENETRATE THROUGH FIRE BARRIERS.
- O. ANY CHANGES RESULTING FROM DEVICES AND TALL WORK TO COORDINATE THE CONTRACTOR (INCLUDING THE DRAYED) AND ALL WORK TO COORDINATE THE SUBSTITUTION WITH OTHER PORTIONS OF THE WORK.
- P. FIELD COORDINATE HANGING HEIGHTS OF ALL EQUIPMENT WITH THE ARCHITECT.
- Q. FITTINGS SHALL BE CONTROLLED VIA LOCAL THERMOSTAT CONTROL AND REMOTE ACCESS UNITS.



**FLOOR PLAN**  
SCALE: 1/8" = 1'-0"

12. DEMISH ALL EXISTING BASEBOARD ELECTRICAL HEATERS.
13. BYPASS DUCT WITH COUNTERBALANCED BACKDRAFT DAMPER (RUSKIN CB02 OR EQUIVALENT). SET TO OPEN AT 0.60 Wg BACK PRESSURE.
14. ROUTE 3/4" PVC PIPE TO EXTERIOR WALL FOR DEHUMIDIFIER CONDENSATE REMOVAL. FINISH 1/2" TIE ADAPTOR AT DEHUMIDIFIER OUTLET. ROUTE PIPE DOWN INTERIOR SIDE OF EXTERIOR WALL AND PENETRATE 1"-0" ABOVE GRADE. THEN TURN THE PIPE DOWN AND TERMINATE A MAXIMUM OF 6" ABOVE GROUND. INSULATE PIPE AFTER PENETRATION.

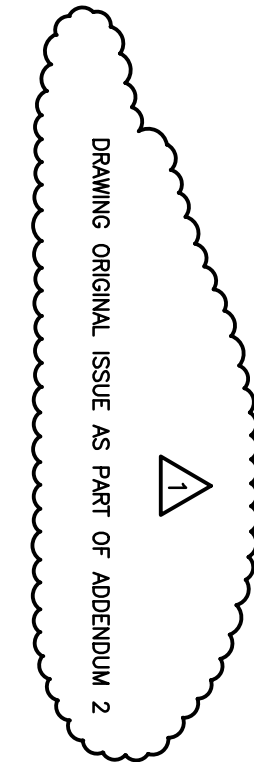












## BAS CODED NOTES

1. WIRE WALL MOUNTED LOW VOLTAGE THERMOSTATS TO CORRESPONDING ZONE DRAFTER UNIT AS INDICATED.
2. WIRE WALL MOUNTED LOW VOLTAGE THERMOSTAT FOR AC UNIT. WIRE TO CORRESPONDING UNIT PER MANUFACTURERS WIRE DIAGRAM.
3. WIRE WALL MOUNTED LOW VOLTAGE HUMIDITY SENSOR TO DEHUMIDIFIER IN RETURN DUCT OF RO-1
4. HUMIDITY SENSOR FOR HUMIDIFIER SYSTEMS FURNISHED BY MANUFACTURER.
5. AHJ-BID #1: INCLUDE RTU-1 AND DH-1 SYSTEMS INTO BAS CONTROLS.

[illegible]

**McMULLEN ENGINEERING CO., INC.**  
MECHANICAL AND ELECTRICAL ENGINEERS

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