Bidding & Permits
20 March 2015
IA Project: 20140911

EACPHS Team Based Learning Facility
603-249987

259 Mack Avenue
Detroit, MI 48201

Owner
Wayne State University
Detroit, MI
313.577.2424 P

Mechanical Engineer
Integrated Architecture
4090 Lake Drive SE
Grand Rapids, MI 49546
616.574.0220 P
616.574.0953 F

Architect
Integrated Architecture
4090 Lake Drive SE
Grand Rapids, MI 49546
616.574.0220 P
616.574.0953 F

Electrical Engineer
Integrated Architecture
4090 Lake Drive SE
Grand Rapids, MI 49546
616.574.0220 P
616.574.0953 F
The existing 5 story building is a WSU university building housing classroom, labs, and offices and is classified as business use with assembly spaces per Chapter 4 of NFPA Life Safety 101 - 1997. The existing 209,000 sf building is approximately 42,000 sf per floor and is llB.

This project involves the addition of an operable partition to an existing 2,064 sf classroom, dividing the space into two rooms, one 1,330 sf and the other, 760 sf. Marker boards and monitors will be added to the walls. Modifications will be made to the electrical, data, lighting, and HVAC of the room. A pair of cross corridor double egress doors will be added at one location in the corridor near the classroom being modified.

**NFPA Life Safety 101 – 1997**

**Chapter 4 – Classification of Occupancy**

- **Assembly Occupancy**
  - Assembly halls, auditoriums, college and university classrooms of 50 persons and over.
  - Conference rooms, libraries, restaurants.

- **Business Occupancy**
  - Used for the transaction of business other than those covered under Mercantile for the keeping of accounts and records and for similar purposes.
  - College and university instructional buildings, classrooms under 50 persons, general offices.

**Chapter 5 – Means of Egress**

- **5-2.1.4.2 – Doors**
  - Must swing in direction of egress where serving an occupant load of 50 or more.

- **5-2.1.6.1 Delayed Egress Locks**
  - Approved, listed, delayed egress locks shall be permitted in buildings protected supervised automatic fire suppression system provided that:
    - Doors unlock upon actuation of supervised automatic fire suppression system or heat detectors.
    - Doors unlock upon loss of power controlling the lock or locking mechanism.
    - Doors unlock upon disablement of automatic detection system, sprinkler system or monitoring system.

- **5-2.1.8 – Doors**
  - Must be self closing in a means of egress.

**Chapter 9 – Existing Assembly Occupancies**

- **9-1.7 – Occupant Load**
  - Less concentrated such as conference room, dining room, drinking establishment, gymnasium or lounge; 1 person per 15ns.

- **9-2.2.2.3 – Panic Hardware**
  - Any door from an area having an occupant load of 100 or more must have panic hardware per 5-2.1.7.

**Chapter 27 – Existing Business Occupancies**

- **27-1.7 – Occupant Load**
  - 1 person per 100gsf. The occupant load for parts of the building used for other purposes shall be calculated using occupant load factors associated with that use (Assembly).

- **27-2.3.2 – Minimum width of any corridor**
  - 44 inches.

- **27-2.5.2 – Dead end corridor**
  - 20 feet.
  - Exception: with sprinkler system may be 50 feet.

- **27-2.5.3 – Common Path of Travel**
  - 75 feet.
  - Exception: with sprinkler system may be 100 feet.

- **27-2.6 – Travel Distance to Exit**
  - 200 feet.
  - Exception: with sprinkler system Travel Distance may be 300 feet.
NOTE:
AIR SUPPLIED TO ROOMS NOTED ABOVE IS FROM A 100% OUTSIDE AIR SYSTEM. ALL SUPPLY AIR NOTED ON DRAWING M1.4 IS 100% OUTSIDE / FRESH AIR.

5.
VERIFY THERMOSTAT AND SENSOR LOCATIONS WITH ARCHITECT AND OWNER BEFORE ROUGH-IN.

AND/OR CODE REQUIREMENTS. ALL MECHANICAL EQUIPMENT SHALL HAVE THE ABILITY TO ...

THE CONTRACTOR, CONSULTANTS, OR SUPPLIERS:

ALL WORK MUST COMPLY WITH THE REQUIREMENTS OF LOCAL CODES AND ORDINANCES. WHERE ...

COMPONENTS, OFFSETS AND FITTINGS WHICH ARE REQUIRED DUE TO THE WORK OF OTHER TRADES, ...

THESE ARE NOT CONSTRUCTION OR FABRICATION DRAWINGS. THEY ARE DIAGRAMMATIC AND INDICATE ...

SYSTEMS OR PORTIONS OF SYSTEMS MAY DEVIATE FROM THEIR INTENDED OR ACTUAL CONSTRUCTION. ...

THESE DRAWINGS HAVE BEEN DEVELOPED UTILIZING BENTLEY MICROSTATION DESIGN SOFTWARE.

A.
FAIL TO COMPLY WITH APPLICABLE CODES, STATE OR FEDERAL REGULATIONS APPLICABLE TO ...

WITH BALANCING CONTRACTOR.
HVAC SHEET METAL PLAN

DEMOlITION FOURTH FLOOR

SCALE: 1'-0"

HVAC NOTES:
- FOR NEW UPGRADE
- AS REQUIRED. DUCT CONNECTION TO BE RE-USED
- REMOVE EXISTING EXHAUST GRILLES & DUCTWORK
- CEILING GRID DESIGN.
- EXISTING DIFFUSER TO BE RELOCATED TO FIT REVISED CAP EXISTING DUCT, SEAL AIRTIGHT.
- HANGERS & SUPPORTS.
- REMOVE EXISTING DUCTWORK AND ASSOCIATED DIFFUSERS.
- REMOVE EXISTING DIFFUSERS.

HVAC DEMOLITION NOTES:
- 06 Mar. 2015
- Bidding & Permits
- 20 Mar. 2015

PRELIMINARY NOT FOR CONSTRUCTION

© 2016 Integrated Architecture. All rights reserved. No part of this drawing may be used or reproduced in any form or by any means, or stored in a database or retrieval system, without prior written permission of Integrated Architecture.