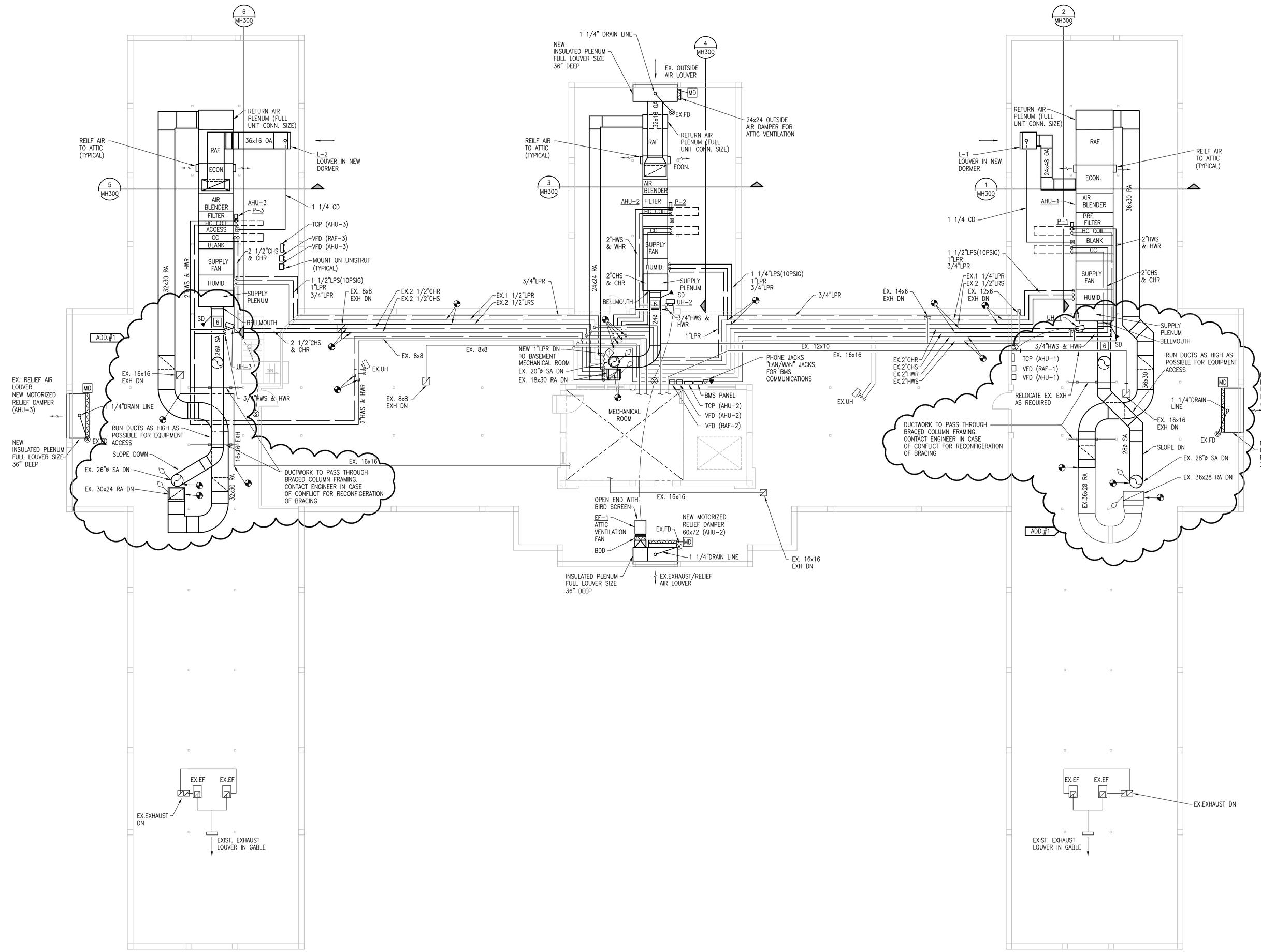


## GENERAL NOTES - HVAC:

USE THE FOLLOWING TABLE FOR SIZING PIPING RUNOUT AND PIPING TO TERMINAL UNIT/COILS AT THE GPM SPECIFIED IN THE SCHEDULES, UNLESS SPECIFIED OTHERWISE ON PLAN.

| GPM RANGE | PIPE SIZE |
|---|---|
| 0.5 TO 2.5 | 3/4" |
| 2.6 TO 6 | 1" |
| 6.1 TO 10 | 1 1/4" |
| 10.1 TO 17 | 1 1/2" |
| 17.1 TO 35 | 2" |
| 35.1 TO 65 | 2 1/2" |
| 65.1 TO 100 | 3" |
| 100.1 TO 200 | 4" |
| 200.1 TO 650 | 6" |

ALL VALVES AND FITTINGS (EXCEPT CONTROL VALVES) SHALL BE THE SAME SIZE AS PIPE UNLESS NOTED OTHERWISE. CONTROL VALVE SHALL BE SIZED AND PROVIDED BY TEMPERATURE CONTROL CONTRACTOR.

ALL DUCTWORK PENETRATING FLOOR SLABS SHALL HAVE FIRE DAMPERS.

RUN ALL DUCTWORK AS HIGH AS POSSIBLE EITHER TIGHT TO BOTTOM OR THROUGH STRUCTURE UNLESS SHOWN OTHERWISE.

WHERE DUCTS PENETRATE FIRE RATED WALLS AND FLOORS, PROVIDE FIRE STOP EQUAL TO RATING OF WALL/FLOOR.

REFER TO EQUIPMENT MANUFACTURER'S SHOP DRAWINGS FOR FINAL CONNECTIONS AND REQUIREMENTS.

MITERED ELBOWS THAT ARE 24" WIDE OR MORE SHALL HAVE TURNING VANES.

PROVIDE MANUAL BALANCING DAMPERS IN ALL BRANCH DUCTS AND RISERS FOR SUPPLY, RETURN AND EXHAUST DUCTS.

PROVIDE VALVES FOR SUPPLY AND BALANCING VALVES IN RETURN FOR ALL BRANCH PIPING OFF MAINS.

SUPPLY FIRE DEPARTMENT WITH LOCATION OF ALL NEW DAMPERS IN DUCTWORK.

ALL NEW SMOKE DETECTORS TO BE COMPATIBLE WITH EXISTING SMOKE DETECTOR SYSTEM.

DUCT PRESSURE CLASSES FOR HVAC DUCTWORK: LOW PRESSURE 2"SP AND BELOW FOR SUPPLY, RETURN & EXHAUST DUCTWORK.

MEDIUM PRESSURE DUCTWORK, 2"SP TO 4"SP SUPPLY AND RETURN AND EXHAUST DUCTWORK ABOVE 2"SP.

HIGH PRESSURE DUCTWORK, ABOVE 4"SP SUPPLY, RETURN AND EXHAUST

CUSTOM AIR HANDLING UNIT TO BE SUPPLIED IN MULTIPLE SECTIONS AND ASSEMBLED IN THE FIELD.

## KEYED NOTES - HVAC:

1. RUN NEW 1" LPR DOWN IN CHASE TO BASEMENT CEILING AND THEN TO MECHANICAL ROOM, CONNECT TO EXISTING LPR.

## ATTIC FLOOR PLAN - HVAC

SCALE: 1/8" = 1'-0"

N

| | |
|---|---|
| ADDENDUM #1 | 06/28/2013 |
| 100% DOCUMENTS | 11/30/2011 |
| Revisions | Date |

URS

3950 SPARKS DRIVE SE
GRAND RAPIDS, MI
616-574-8500
PROJ. NO. 12942721

Architect — URS PROJECT NO. - 12942721 — stamp

| | | | |
|---|---|---|---|
| | DATE | ENGINEERING MANAGER | DATE |
| INFECTION CONTROL | DATE | CARELINE MANAGER | DATE |
| SAFETY OFFICER | DATE | CHIEF OF STAFF | DATE |

Drawing Title: ATTIC FLOOR PLAN HVAC

Project Title: FCA - REPLACE HVAC SYSTEM
PROJ. NO. 515-10-109
CONTRACT NO. VA251-P-0592

MEDICAL CENTER DIRECTOR — DATE

ASSOCIATE MEDICAL CENTER DIRECTOR — DATE

Building Number: 82 | Checked: CBD | Drawn: JAE

Location: V.A.M.C. BATTLE CREEK, MICHIGAN

Date: 05/04/2012

Station No.: 515

MH103

Office of Facilities

Department of Veterans Affairs