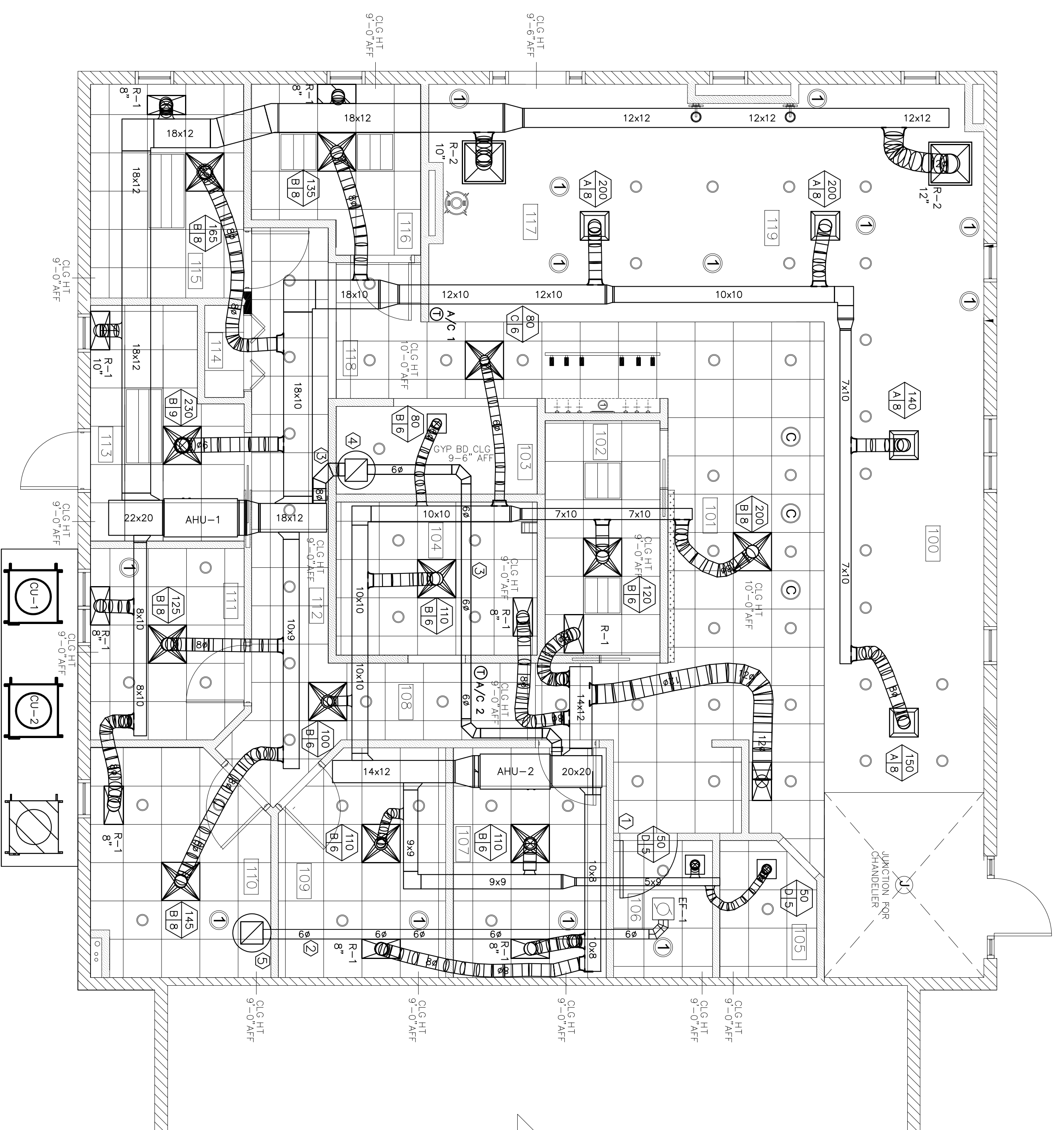


HVAC NOTES:

1. ALL MECHANICAL SYSTEMS ARE TO BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE BUILDING CODES, NFPA STANDARDS, PLANS AND SPECIFICATIONS.
2. THE HVAC CONTRACTOR SHALL VISIT SITE PRIOR TO SUBMITTING BID TO DETERMINE THE CHARACTERISTICS OF THE BUILDING STRUCTURE AND OTHER WORK. THE CONTRACTOR SHALL SUBMIT ANY DISCREPANCIES OR CONFLICTS TO THE ARCHITECT IN WRITING PRIOR TO SUBMITTING BID.
3. THESE DRAWINGS ARE GENERAL IN NATURE AND NOT INTENDED TO SHOW EVERY OFFSET, BEND, FITTING OR COMPONENT WHICH MAY BE REQUIRED. CONTRACTOR TO PROVIDE ALL NECESSARY ITEMS REQUIRED FOR A COMPLETE INSTALLATION AT NO EXTRA COST TO OWNER. IT IS THE MECHANICAL CONTRACTORS RESPONSIBILITY TO COORDINATE WITH THE GENERAL CONTRACTOR TO VERIFY ALL CLEARANCES AND WORKABILITY OF CONTRACT DOCUMENTS, NO EQUIPMENT, DUCTWORK, PIPING OR OTHER MATERIALS SHALL BE ORDERED UNTIL FIELD VERIFICATION HAS BEEN MADE AND THERE ARE NO CONFLICTS PRESENT.
4. THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, CONTROL SYSTEMS, PERMITS AND SERVICES FOR A COMPLETE AND OPERATIONAL SYSTEM.
5. ALL DUCTWORK SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF SMACNA AND LOCAL CODES.
6. HVAC CONTRACTOR SHALL WARRANTY ALL RELATED MATERIALS AND LABOR FOR A PERIOD OF ONE YEAR FROM DATE OF CERTIFICATE OF OCCUPANCY.
7. ALL CUTTING, PATCHING, PAINTING, SEALING, AND STRUCTURAL STEEL SHALL BE BY THE GENERAL CONTRACTOR.
8. PROVIDE MANUAL BALANCING DAMPER AT MAIN TRUNK LINE FOR EACH BRANCH AND FLEX DUCT.
9. ALL SUPPLY AND RETURN DUCTS TO BE R-6 FIBERGLASS DUCT ABOVE DROP CEILING AREA AND DOUBLE WALL SPIRAL SHEET METAL IN EXPOSED CEILING AREAS. SPIRAL DUCTWORK SHALL BE SHEET METAL WITH MIN. R-6 INSULATION. ALL OUTSIDE AIR AND EXHAUST DUCTS SHALL BE SHEET METAL. EXISTING DUCT IN GOOD SHAPE AND PROPER SIZE MAY BE REUSED.
10. ALL DUCT SIZES ARE CLEAR INSIDE DIMENSIONS.
11. THE OUTSIDE AIR AND EXHAUST DUCTS INTO EXISTING LOCATIONS PROVIDED BY OTHERS. IF OUTSIDE AIR AND EXHAUST DUCTS ARE NOT EXISTING, PROVIDE NEW INTAKES AND EXHAUST OUTLETS AS REQUIRED. MAINTAIN ALL CODE REQUIRED CLEARANCES. COORDINATE TYPE AND LOCATION OF OUTSIDE AIR INTAKES AND EXHAUST OUTLETS WITH BUILDING OWNER. IF VENTS ARE TO BE LOCATED ON ROOF, USE OWNER APPROVED ROOFING CONTRACTOR. MOTORIZED DAMPERS SHALL BE PROVIDED AND INSTALLED ON OUTSIDE AIR DUCTS AND EXHAUST DUCTS AND INTERLOCKED WITH ASSOCIATED FANS. PROVIDE ALL CONTROLS AND WIRING REQUIRED FOR INTERLOCKING COMPONENTS.
12. FLEXIBLE DUCT SHALL BE INSTALLED FULLY EXTENDED. THE TOTAL EXTENDED LENGTH OF DUCT MATERIAL SHALL NOT EXCEED 5% OF THE MINIMUM REQUIRED LENGTH FOR THAT RUN. BENDS SHALL MAINTAIN A CENTER LINE RADIUS OF NOT LESS THAN ONE DUCT DIAMETER. HORIZONTAL DUCT SHALL BE SUPPORTED AT INTERVALS NOT GREATER THAN 5 FEET. DUCT SAG BETWEEN SUPPORTS SHALL NOT ONE HALF INCH PER FOOT OF LENGTH. SUPPORTS SHALL BE PROVIDED WITHIN ONE HALF FOOT OF INTERMEDIATE FITTINGS AND BENDS. CEILING JOIST AND RIDGID DUCT OR EQUIPMENT MAY BE CONSIDERED TO BE SUPPORTS. HANGERS, SADDLES AND OTHER SUPPORTS SHALL MEET THE DUCT MANUFACTURERS RECOMMENDATIONS AND SHALL BE OF SUFFICIENT WIDTH TO PREVENT RESTRICTION OF THE INTERNAL DUCT DIAMETER. IN NO CASE SHALL THE MATERIAL SUPPORTING THE FLEXIBLE DUCT BE LESS THAN 1.5" IN WIDTH, NOT USED.
13. PROTECT ALL FIRE RATED WALLS AND FLOORS WITH FIRE STOPPING AND/OR FIRE DAMPERS AS REQUIRED BY CODE.
14. ALL STRUCTURAL STEEL AND ENGINEERING BY GENERAL CONTRACTOR.
15. SMOKE DETECTORS AND WIRING BY FIRE ALARM CONTRACTOR ON BUILDINGS WITH ALARM SYSTEM.
16. ALL ROOFING WORK BY GENERAL CONTRACTOR.
17. PIPE CONDENSATE TO NEAREST ROOF DRAIN/DISPOSAL POINT. FIELD VERIFY CONDENSATE LOCATIONS. IF CONDENSATE LINES ARE REQUIRED TO BE RUN ABOVE ABOVE CEILINGS AND CEILING SPACE DOES NOT PROVIDE ROOM FOR PROPER SLOPE OF DRAIN LINES, A CONDENSATE PUMP SHALL BE PROVIDED AND INSTALLED AT NO ADDITIONAL COST.
18. PROVIDE TEST AND BALANCE. SUBMIT REPORT TO GENERAL CONTRACTOR AT PROJECT CLOSEOUT. INCLUDE LABOR ALLOWANCE IN BID FOR A TEMPERATURE BALANCE TO BE PERFORMED AFTER TENANT OCCUPANCY.
19. COORDINATE LOCATIONS OF THERMOSTATS AND CONTROLS WITH GENERAL CONTRACTOR PRIOR TO INSTALLATION. MOUNT THERMOSTATS BETWEEN 48" AND 54" A.F.F. FOR CODE COMPLIANCE.
20. MOUNT SMOKE DETECTORS (PROVIDED BY OTHERS) IN SUPPLY AIR DUCT ON SYSTEMS DELIVERING OVER 2000 CFM.
21. PROVIDE AND INSTALL MOTORIZED DAMPER, AND ALL ASSOCIATED CONTROLS, ON OUTSIDE AIR INTAKE DUCT. DAMPER TO BE ENERGIZED IN THE OPEN POSITION ON A CALL FOR COOLING.
22. CHANGE ORDERS WILL NOT BE ISSUED FOR ANY FIELD CONDITION CONFLICTS. CODE COMPLIANCE, ERROR/OMISSION OR ANY REASON OTHER THAN AN OWNER REQUESTED CHANGE.



MECHANICAL PLAN



2185 S.F.

SCALE: 1/4" = 1'-0"

PLAN KEY MECHANICAL NOTES:

- 1 G.C. TO UNDERCUT DOOR 1"
- 2 ROUTE NEW EXHAUST DUCT TO BUILDING EXHAUST MAIN. FIELD VERIFY LOCATION.
- 3 NEW ROUND OUTSIDE DUCT TO EXISTING ROOF VENTILATOR HOOD. FIELD VERIFY LOCATION.
- 4 EXISTING OUTSIDE AIR ROOF VENTILATOR HOOD. FIELD VERIFY LOCATION.
- 5 EXISTING EXHAUST AIR ROOF VENTILATOR HOOD. FIELD VERIFY LOCATION.



AIR-CONDITIONING SYSTEM HAS BEEN DESIGNED BY AN INSTALLING AIR-CONDITIONING CONTRACTOR CERTIFIED UNDER CHAPTER 489.

HVAC DESIGN BY:

Altham Brothers, LLC
 Air Conditioning Contractors CA0033567
 Design Installation Service
 Pk.(561) 694-1651 fax.(561) 622-2590
 Palm Beach Gardens, Florida

BRYAN ALTHAM CA0033567
 QUALIFIER FOR ALTHAM BROTHERS, LLC

DATE

THE FOLLOWING CODES WERE USED IN THE DESIGN OF THIS PROJECT:
 2014 ASHRAE 90.1-2013 ENERGY EFFICIENT BLDG. DESIGN CODE
 EXISTING BUILDING MECHANICAL SYSTEMS
 FUEL GAS MECHANICAL TEST PROTOCOLS FOR HIGH VELOCITY AIRBORNE ZONES ASSEMBLY AND DESIGN
 2011 NATIONAL ELECTRICAL CODE
 NFPA 70
 FLORIDA FIRE PREVENTION CODE 5TH EDITION (INCLUDING MECHANICAL SYSTEMS) WITH FLORIDA AMENDMENTS

PROJECT NAME/LOCATION:

ADVANCED VISION CARE

DR. AMIR CUKIERMAN, O.D.
 3893 MILITARY TRAIL SUITE 4
 ADMIRAL'S CROSSING
 JUPITER, FL

I (WE) HAVE REVIEWED THESE DRAWINGS, UNDERSTAND THE WORK OUTLINED THEREON, AND HEREBY APPROVE SAME FOR CONSTRUCTION.

BY: _____

DATE: _____

THESE DRAWINGS ARE BASED ON EXISTING DRAWINGS WHEN AVAILABLE. FIELD INSPECTION OF AS BUILT CONDITIONS AND OTHER INFORMATION FROM THE FIELD IS THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL GATHER INFORMATION AND AS NOTED, INFORMATION WAS GATHERED WITHOUT "DESTRUCTIVE INVESTIGATION" CUTTING INTO EXISTING SURFACES TO REVEAL STRUCTURES, PIPING, DUCTWORK, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL BASE RISER INFORMATION SHOWN. SHOULD CONSTRUCTION REVEAL THAT EXISTING CONDITIONS ARE NOT AS ANTICIPATED OR AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR AND/OR SUBCONTRACTORS WILL NOTIFY THE OWNER/AGENT OF THE DIFFERENCE AND THE PRICE WILL BE ADJUSTED UP OR DOWN TO REFLECT THE DISCREPANCY.

JOB #: DR. CUKIERMAN

DATE: 02/29/2016

SCALE: VARIES

DRAWN BY: JMBKA

REVISIONS:

NO.	DESCRIPTION

SHEET NO:

M-1

OF 2