



NOTE:

1. THE DESIGN HAS BEEN PREPARED IN ACCORD WITH INFORMATION PROVIDED BY/OR ON BEHALF OF THE CUSTOMER.
2. HVAC HOUSE DESIGNER IS NOT RESPONSIBLE FOR THE FOLLOWING ACTIVITIES IN RESPECT OF THE SYSTEM DESIGN HEREIN PROVIDED, WHICH ACTIVITIES REMAIN THE RESPONSIBILITY OF THE CUSTOMER AND/OR CUSTOMERS CONTRACTOR(S).
 - COORDINATION OF THE TRADES PEOPLE AND SUPPLIERS.
 - APPLYING FOR AND OBTAINING ALL REQUISITE CONSTRUCTION PERMITS.
 - VERIFICATION OF ALL DIMENSIONS, DETAILS AND SPECIFICATIONS.
3. ALL SUPPLY BRANCH OUTLETS SHALL BE EQUIPPED WITH MANUAL BALANCING DAMPERS.
4. PROVIDE 3/4" MIN. CLEAR UNDERCUT OF ALL DOORS TO PROVIDE THE RETURN OF AIR FROM ALL ROOMS.
5. ALL DUCTS LOCATED IN UNCONDITIONED SPACES SHALL BE INSULATED WITH MIN.R-12 INSULATION.
6. ALL DUCTWORK TO BE ENLARGED TO ACCOMMODATE INTERNAL INSULATION WHERE APPLICABLE. USE GAGE W8 COMMERCIAL TYPE CUSTOM MADE DUCT IF POSSIBLE. USE MASTIC DUCT SEALER IN DUCT CONNECTION.
7. USE EXPANDED COLLAR AND ROUND THROAT ON RETURN AIR DROP.
8. ANY DISCREPANCIES BETWEEN THE DESIGN HEREIN SPECIFIED AND THE PROPOSED INSTALLATION SHOULD BE REPORTED TO DESIGNER PRIOR TO PROCEEDING WITH CONSTRUCTION OR INSTALLATION OF THE SYSTEM.
9. THE SKETCHES OF THIS HOUSE IS DRAWN BASED ON THE ARCHITECTURAL PLAN FOR THE PURPOSE OF HEAT LOSS/GAIN CALCULATION, AND DUCT DESIGN.
10. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO CONSTRUCTION.
11. ALL WORK IS TO COMPLY WITH THE LATEST ONTARIO BUILDING CODE.
12. SERVICE CLEARANCE IS TO BE MAINTAINED AROUND FURNACE ACCORDING TO MANUFACTURER MANUAL.
13. INSTALL SUPPLY AND RETURN TRUNK TIGHT TO BASEMENT CEILING.
14. INSTALL DUCT REDUCER AND EXPANDER WHEN CHANGING DUCT SIZE.
15. USE EQUIVALENT DUCT AREA AS REQUIRED TO FIT JOIST SPACE.
16. EXHAUST FAN DUCT THROUGH JOIST AND/OR STUD, SITE COORDINATE WITH STRUCTURE,C/W INSULATION AND VAPOR BARRIER, C/W WALL CAP OR GOOSENECK AND BIRD SCREEN.
17. CONTRACTOR SHALL INSTALL GAS FURNACE, DUCTWORK AND CONTROL AS PER ONTARIO BUILDING CODE 2012, CSA STANDARDS AND MANUFACTURER INSTALLATION MANUAL.

F-1
 EXHAUST FAN:
 50 CFM @ 0.3 IN.W.C.
 CEILING EXHAUST FAN
 ON/OFF SWITCH INSTALLED
 ON WALL. DUCT TO
 OUTDOOR C/W WALL GRILLE
 AND BACK DRAFT DAMPER
 AND BIRD SCREEN.
 INSULATE EXHAUST DUCT
 WITH R12 DUCT INSULATION.

F-2
 EXHAUST FAN:
 90 CFM @ 0.3 IN.W.C.
 CEILING EXHAUST FAN
 ON/OFF SWITCH INSTALLED
 ON WALL. DUCT TO
 OUTDOOR C/W WALL GRILLE
 AND BACK DRAFT DAMPER
 AND BIRD SCREEN. 6 INCH
 DUCT TO OUTDOOR
 INSULATE EXHAUST DUCT
 WITH R12 DUCT INSULATION.

AHU-1:
 NEW GAS FURNACE
 AMERICAN STANDARD
 AUH2B060A936V**
 96% AFUE
 HEATING INPUT: 60000 BTUH
 HEATING OUTPUT: 58000 BTUH

 PROPOSED COOLING:
 2.0 TON


AHU-2:
 NEW GAS FURNACE
 AMERICAN STANDARD
 AUH1B040A9H21B*
 95% AFUE
 HEATING INPUT: 40000 BTUH
 HEATING OUTPUT: 38000 BTUH

 PROPOSED COOLING:
 1.5 TON

LEGEND			
	Furnace		Trunk Fitting
	Return Grill		Return Boot
	Supply Register		Double Wall Return Grill
	Supply Boot		Single Wall Return Grill
	Wall Supply Register		Top Takeoff
	Return Air Cutout		Single Line Reducer
	Supply Riser Round		Supply Riser Square/Rectangular
	Supply Duct Single Line		Return Duct Single Line
	Round Branch Notation		Return stud Cavity Notation
	Register Notation, size and ...		Trunk Size Notation

The undersigned has reviewed and takes responsibility for this design, and has the qualifications and meets the requirements set out in the Ontario Building Code to be a designer.

QUALIFICATION INFORMATION

Jason Xiaojing Li  28724
 NAME SIGNATURE BCIN

REGISTRATION INFORMATION

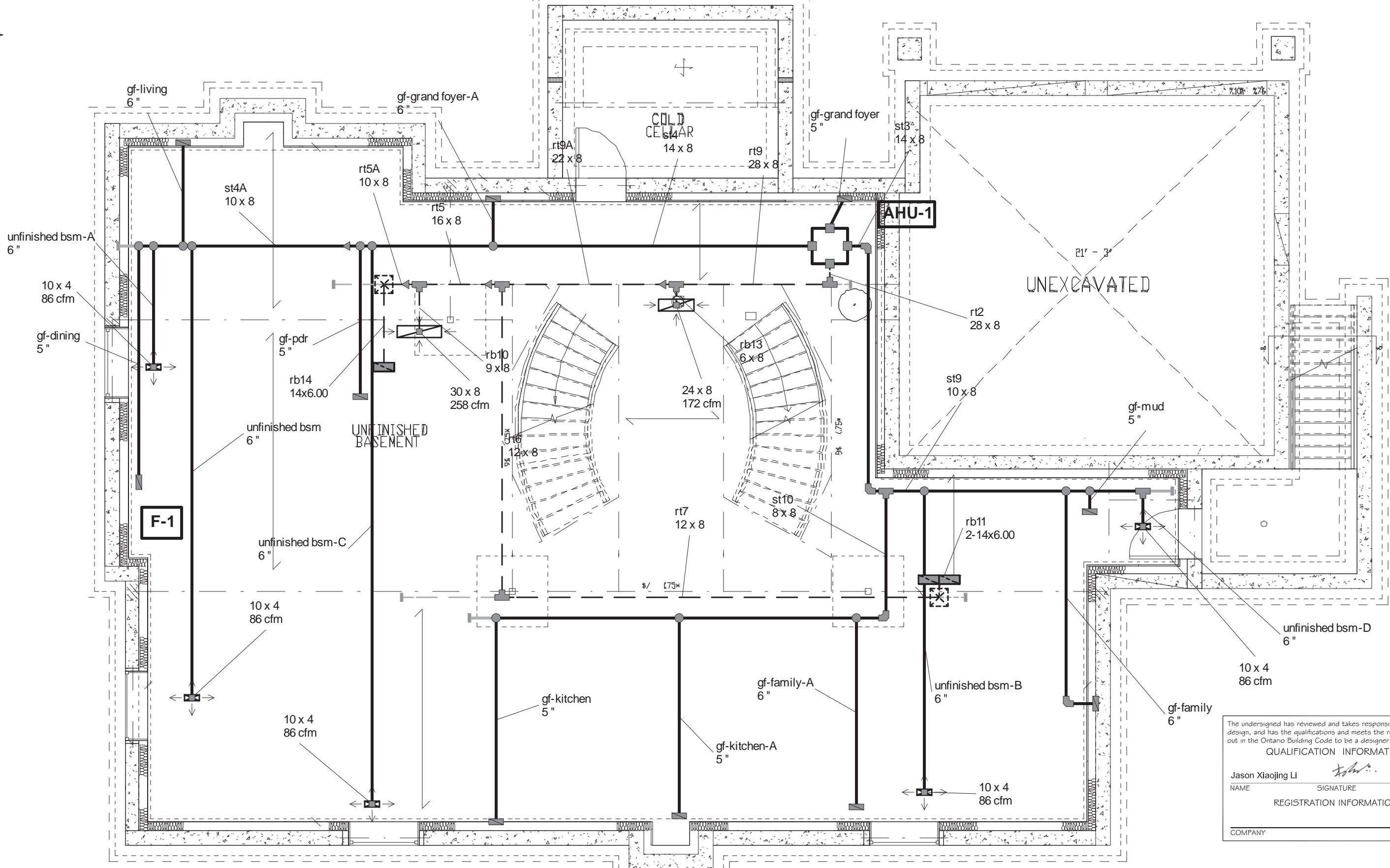
COMPANY BCIN

Job #:
 Performed by JLI for:
 203 THIRD LINE, OAKVILLE, ON
 ON

S & I Ideas Inc.

 Phone: 416-5741682
 jasonmech@gmail.com

Scale: 3/16" = 1'0"
 Page 1
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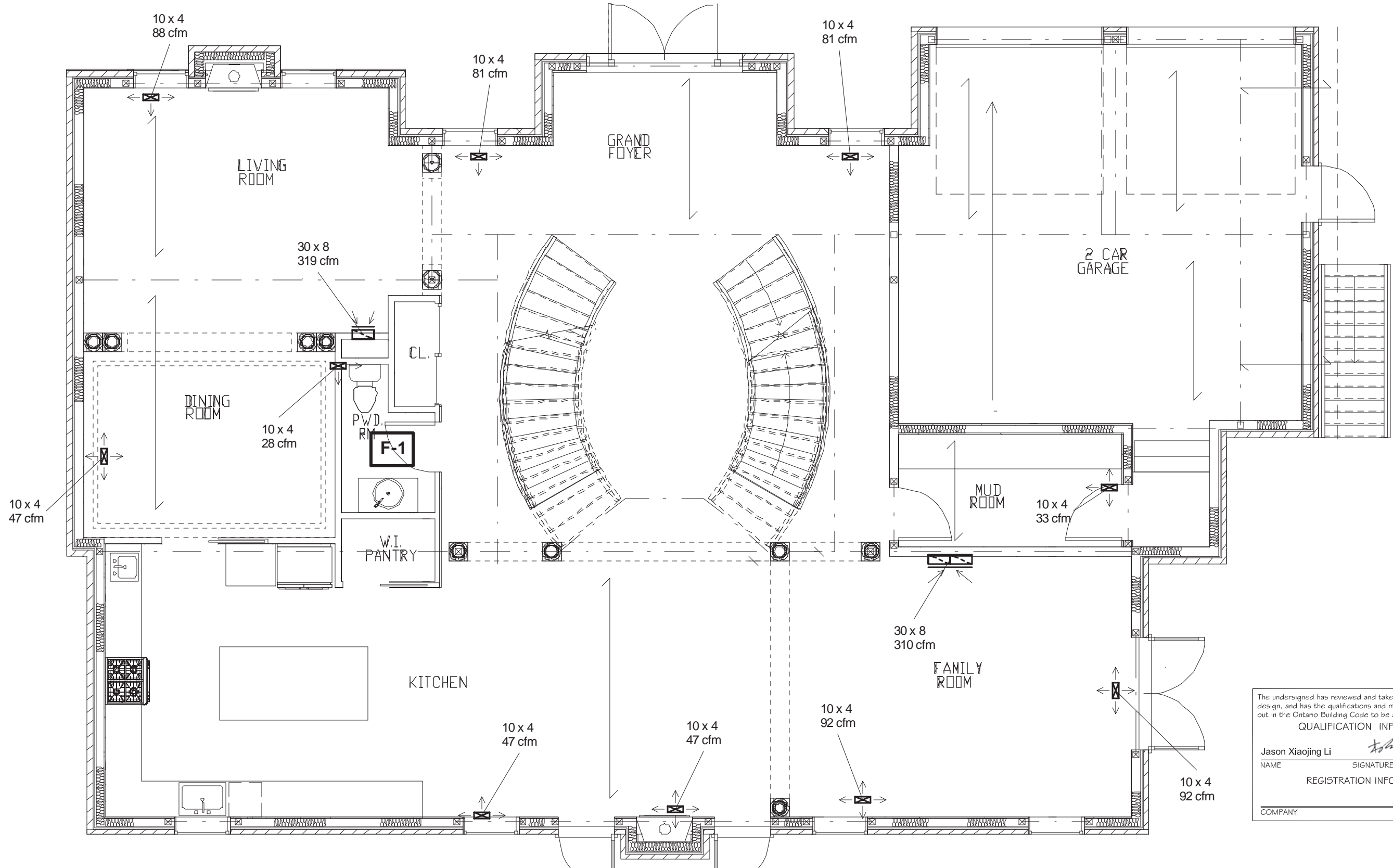
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Ground floor



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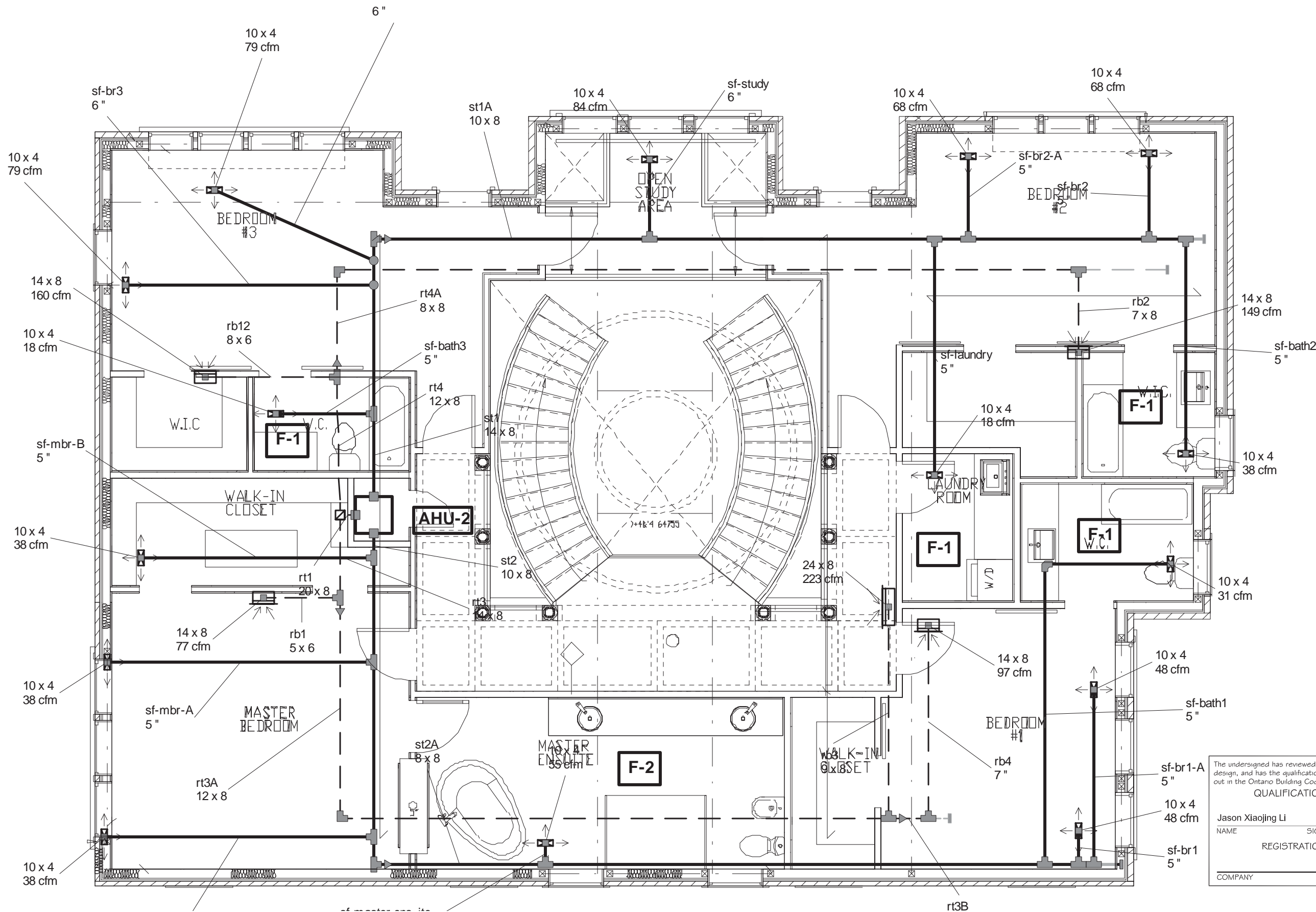
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