

**ATTENTION:**

May 29, 2020

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**RE: Zoe Foods - 9336 120 Street, Surrey, BC (Rev Permit # BP 17-38437-0-1)**

Kindly, see attached 3 full size sets of revised drawings in response to your email dated Mar 5, 2020. The only sheets that changed in this submission are M1 and M3. There is no change to sheets M2 and M4. A full set is submitted for clarity. Below is the list of questions as asked in Mar 5, 2020 email and Voltas responses.

NOTE: ALL CODE REFERENCES BELOW REFER TO NFPA 96 -2011.

1. CLARIFY IF THE NEW EXHAUST DUCT IS 20X20 FROM THE HOOD ALL THE WAY TO THE FAN. THE FLOOR PLAN (ON DRAWING M3) HAS A 32X12 LABEL FOR THIS DUCT, AND THE NOZZLE SUMMARY (ON DRAWING M1) SHOWS 18X18 FOR THIS DUCT.
  - EXHAUST DUCT STARTS AT THE HOOD AS 32"X12" AND RUNS THE SAME SIZE UNTIL IT TURNS VERTICAL AT WHICH TIME IT TRANSITIONS TO 20"X20" FOR EASY CONNECTION TO UP-BLAST FAN ON ROOF.
2. ON M3 FLOOR PLAN, CLARIFY IF THERE IS ANY WALLS/SURFACES WITHIN 18" ON THE LEFT SIDE AND IN FRONT OF THE HOOD. IF SO, PROVIDE THE WALL/SURFACE MATERIAL (E.G. LIMITED-COMBUSTIBLE) AND CLEARANCES FROM THE HOOD (4.2). CLEARANCE REDUCTION.
  - THERE ARE NO SURFACES ON THE LEFT SIDE OR FRONT OF THE HOOD WITHIN 18".
3. FOR THE WALL ON THE RIGHT SIDE OF THE HOOD (SECTION C-C ON M3), WHAT IS THE WALL MATERIAL AND CLEARANCE FROM THE HOOD (4.2).
  - COMBUSTIBLE. 3" CLEARANCE TO HOOD USING CLEARANCE REDUCTION SYSTEM AS PER 4.2.3.2.
4. FOR THE WALL BEHIND THE HOOD (SECTION A-A ON M3), WHAT IS THE WALL MATERIAL AND CLEARANCE FROM THE HOOD (4.2).
  - COMBUSTIBLE. 3" CLEARANCE TO HOOD USING CLEARANCE REDUCTION SYSTEM AS PER 4.2.3.2.
5. FOR THE CLEARANCE REDUCTION SYSTEM DETAIL ON M3, CONFIRM THAT IT MEETS ALL COMPONENT REQUIREMENTS OF 4.2.3.2 TO ACHIEVE 3" CLEARANCE TO COMBUSTIBLES.
  - CONFIRMED
6. CLARIFY IF THE CLEARANCE REDUCTION SYSTEM IS EXTENDED TO MINIMUM 18" PAST ALL EDGES OF THE HOOD.
  - CONFIRMED.
7. ON SECTION C-C ON M3, THE RIGHT-SIDE WALL HAS A 1'-2" DIMENSION ABOVE THE HOOD. CLARIFY WHAT THIS DIMENSION REFERS TO.
  - DIMENSION INDICATES HOOD FRONT FACE.
8. CLARIFY IF THERE IS A DROPPED CEILING ABOVE THE HOOD. IF SO, PROVIDE THE CEILING MATERIAL (E.G. COMBUSTIBLE) AND CLEARANCES FROM THE HOOD AND DUCTS (4.2).

- NO T-BAR CEILING ABOVE THE HOOD. STARTING FROM THE HOOD, TO EXHAUST DUCT 18" ABOVE ROOF CLEARANCE REDUCTION SYSTEM IS INSTALLED AS PER DETAIL D.
9. WHAT IS THE ROOF ASSEMBLY MATERIAL (E.G. COMBUSTIBLE)? WHAT IS THE CLEARANCE PROVIDED FROM THE ROOF ASSEMBLY TO THE DUCTS (4.2)?
- ROOF MATERIAL COMBUSTIBLE, 3 INCHES WITH CLEARANCE REDUCTION SYSTEM OF DETAIL D.
10. CLARIFY WHY THE CLEARANCE REDUCTION SYSTEM IS NOT EXTENDED TO MINIMUM 18" ABOVE THE ROOF SURFACE ON SECTION A-A AND C-C.
- REVISED DRAWING AND EXTENDED CLEARANCE REDUCTION SYSTEM TO 18" ABOVE ROOF.
11. ON SECTION C-C ON M3, THERE IS AN 8" DIMENSION ABOVE THE ROOF. CLARIFY WHAT THIS DIMENSION REFERS TO.
- REVISED TO 18 INCHES (REDUCTION PANEL).
12. CLARIFY IF THE CLEARANCE REDUCTION SYSTEM STARTS IMMEDIATELY ABOVE THE HOOD AND CONTINUES ALL THE WAY TO MINIMUM 18" ABOVE THE ROOF ASSEMBLY.
- YES, & IT EXTENDS MIN 18" ABOVE THE ROOF AND THE ENTIRE DUCT IS BOXED WITH 4.2.3.2 CLEARANCE REDUCTION PANEL. THERE IS 3" GAP BETWEEN CLEARANCE REDUCTION PANEL AND THE COMBUSTIBLE CONSTRUCTION.
13. CONFIRM THE HOOD COMPLIES WITH ALL REQUIREMENTS OF CHAPTER 5.
- CONFIRMED.
14. CLARIFY IF THE HOOD CONTAINS INTEGRATED SUPPLY AIR PLENUMS (5.3.4).
- NO.
15. CLARIFY IF THE SEPARATION DISTANCE COMPLIES WITH 6.2.1.
- COMPLIES
16. CLARIFY IF THE GREASE FILTER MATERIAL/POSITION COMPLIES WITH 6.2.3.
- COMPLIES
17. CLARIFY IF THE ACCESS PANEL MATERIALS COMPLY WITH 7.4.3.
- COMPLIES
18. PROVIDE THE EXHAUST DUCT MATERIAL (7.5.1).
- CARBON STEEL NOT LESS THAN 1.37MM OR SS NOT LESS THAN 1.09 MM
19. CLARIFY IF DUCT ENCLOSURES ARE REQUIRED (7.7.1).
- NO ENCLOSURE REQUIRED.
20. ON THE FLOOR PLAN (M3), THE EXHAUST POINT SEEMS LESS THAN 10 FT TO MUA INTAKE. CLARIFY IF THE EXHAUST POINT IS MINIMUM 10 FT TO ALL AIR INTAKES, PROPERTY LINES, AND ADJACENT BUILDINGS (7.8.2).
- CLEARANCE OF 10 FT IS SHOWN ON ROOF PLAN ON DRAWING M3.
21. ON M3, THE EXHAUST HOOD CAPACITY IS 4200 CFM AND THE EXHAUST FAN CAPACITY IS 4400 CFM. CLARIFY WHY THEY ARE DIFFERENT.
- 4200 CFM IS CORRECT DRAWING CORRECTED.
22. MAKEUP AIR CAPACITY IS LESS THAN 90% OF THE 4400 CFM EXHAUST FAN CAPACITY. CLARIFY IF THE REQUIREMENTS OF 8.3.1 IS MET.
- CONSIDERED 80% (BASED ON CORRECTED 4200CFM EXHAUST FAN) WHICH MEETS 8.3.1 REQUIREMENTS.

23. KITCHEN HOOD CFM CALCULATIONS (ON DRAWING M3) SHOWS 4000 CFM EXHAUST, BUT THIS DOESN'T MATCH THE NOTED EXHAUST HOOD OR EXHAUST FAN
  - CAPACITY CORRECTED, FAN EXHAUST IS 4200 CFM.
24. KITCHEN HOOD CFM CALCULATIONS (ON DRAWING M3) SHOWS 3360 CFM MUA PROVIDED, BUT THIS DOESN'T MATCH THE NOTED MUA CAPACITY.
  - CORRECTED TO 3360 CFM
25. DRAWING M3 NOTES AN EXHAUST DAMPER IN THE HOOD SPECS. JUSTIFY COMPLIANCE TO 9.1.
  - IT REFERS TO OPENING/DUCT FLANGES. THERE IS NO DAMPER. DRAWING CORRECTED.
26. DRAWING M1 NOTES THAT UPON FIRE CONDITION, ELECTRICAL OUTLETS UNDER HOOD TO BE SHUT OFF. NOTE THAT THE 10.4 INTERLOCK REQUIRES ALL ELECTRIC POWER TO BE SHUT OFF, REGARDLESS OF WHERE THE OUTLET IS. PLEASE ACKNOWLEDGE.
  - ACKNOWLEDGED.
27. CLARIFY IF A PITCH IS PROVIDED FOR THE HORIZONTAL EXHAUST DUCT PORTIONS, TO MEET THE INTENT OF 7.1.4.
  - YES, PITCH IS PROVIDED.
28. CLARIFY HOW THE DEEP FRYER PROTECTION IS PROVIDED (12.1.2.4).
  - USING AN 8" STEEL BAFFLE PLATE ON EITHER SIDE OF THE FRYER.

Thank you for your cooperation and feel free to contact us if you have any other questions or concerns.

Sincerely,

Best Regards,

***Gurpreet Purewal, (P. Eng.)***  
**Voltas Engineering Ltd.**



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