ward99 architects

Building Permit Status Letter Responses

Date: June 22, 2022

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Jun 22 2022
DEVELOPMENT SERVICES DEPT.
BUILDING

Project Name: **Building Permit #22 106596**: Grand River Collegiate Institute Renovations (ward99 project no. 20038)

Project Address: 175 Indian Road, Kitchener

Issued To: **City of Kitchener – Development Services Department**
Building Division

Attention: **Christine Wagner, Municipal Building Official**

Issued By: Tina Ranieri-D'Ovidio**,** ward99 architects inc. **Pages: 3**

Please see below the responses to the questions in the issued Building Permit Status Letter dated May 17, 2022::

1- **Building Permit Comment:** Provide clearances around proposed dust collector to confirm it will not obstruct required exit travel widths.

Response: Please be advised that the Owner has decided not to proceed with the supply and installation of the dust collector. The following issued for building permit drawings can be deleted from the building permit submission: Architectural Drawing A2.9, Structural Drawings S5 and S6, Mechanical Drawings M3.4 and Electrical Drawing E3.3.

2- **Building Permit Comment:** Provide furnishing layout for classrooms 3-203, 3-207 and 3-211 or confirm no fixed furnishings or millwork is proposed.

Response: Classrooms 3-203, 3-207 and 3-211 are regular classrooms. There will be no fixed furnishings or fixed millwork in this classroom.

3- **Building Permit Comment:** Provide revised mechanical / electrical drawings to address the following NFPA 96 hood comments:

a. Add / locate the hood system manual pull on drawings.
b. Add / locate the suppression system cannister on drawings to confirm the location will be readily accessible.
c. Add / locate the type K fire extinguisher.
d. Provide suppression system drawings for review.
e. Provide details to confirm clearances for exhaust hoods and ducting.

Response: Note the following responses from DEI Consulting Engineers:
~~For Item 3a – Refer to Drawing E3.2. Push-button for exhaust fan is located on the South wall of Kitchen 7-202, adjacent to the hood.~~
For Item 3b – Refer to Drawing M3.3. Fire suppression canister is installed in an enclosure (by manufacturer) on the

North end of the exhaust hood (Hood #1).
For Item 3c – Refer to Drawing M3.3. Fire blanket and Type 'K' fire extinguisher indicated at entry door (South) from the corridor (adjacent to Elec. 7-200).
For Item 3d – Exhaust hood & suppression system shop drawings have yet to be submitted by the Contractor. Upon review/approval, shop drawings shall be provided to the building department.
For Item 3e – Please elaborate on clearance requirements. Is this related to exhaust hood vs. adjacent ceiling tiles (combustibles)? MIN. 3" OF CLEARANCE REQUIRED TO LIMITED COMBUSTIBLE WALL UNLESS CLEARANCE REDUCTION IS IN PLACE.

4- **Building Permit Comment: Provide design for proposed grease interceptors.**

Response: Note the following response from DEI Consulting Engineers: Please refer to attachment with enclosed grease interceptor calculations, signed & stamped and separate shop drawing for the grease interceptor.

5- **Building Permit Comment: Per OBC 3.1.8.7.(2)(c) smoke or combination smoke and fire dampers are required in assembly occupancies.**

Response: Note the following response from DEI Consulting Engineers: Our interpretation of fire/smoke damper requirements are as follows:
In Kitchen 7-202 (Drawing M3.3)– smoke damper requirement is exempt/not applicable as it serves commercial kitchen equipment and/or all inlets/outlets serve one fire compartment. Therefore, standard fire damper is required in 1050x300 make-up/supply duct penetration through corridor wall.
In Dishwashing/Laundry 7-204 & Servery 7-206 (Drawing M3.3), there are no new penetrations through fire separations.
In Staff Lounge A 3-102 & Staff Lounge B 3-104 (Drawing M3.1), there are no new penetrations through fire separations.

Please review our responses above and let me know if you require further information in this regard and we will be happy to provide any additional documentation or responses as required.

Regards,

Tina

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#20324 – Grand River HS

Grease Interceptor #1

S-3 sink	18" x 21" x 13" = 4914 in³
	4914 x 3 = 14742
	14742 ÷ 231 = 63.8gpm
Displacement	63.8 x 0.75 = 47.9gpm
Sink 100%	47.9gpm
Sink 50%	23.9gpm
	71.8gpm

∴The ANCON GI-175 grease interceptor (75gpm) is sufficient.

Grease Interceptor #2
Dishwasher = 15 gpm
Displacement = 15 x 0.75 = 11.25 gpm

∴The ANCON GI-115 grease interceptor (15gpm) is sufficient.

Matthew White, P.Eng.,
Partner
20324 Grease Interceptor Calculations Jun 7 22
sd/kc