

ITEM	5
MANAGER'S REPORT NO.	14
COUNCIL MEETING	1979 02 19

This report item which received Council's approval also contained provisions to provide minimum improvements to the present workshop facilities as follows:

- a) Upgrade the air circulation in the bay presently occupied by the Mechanical Workshop staff; 127
- b) Evaluate the noise factor in relation to accepted health standards;
- c) Review the present work storage facilities to reduce the risk of injury to operational personnel when responding to a fire call;

SUMMARY

A review of the foregoing problem areas was subsequently carried out by the Chief Building Inspector and the company of J.D. Kern Ltd., who's findings are contained in ATTACHMENT "A" and ATTACHMENT "B", the salient points of which are as follows:

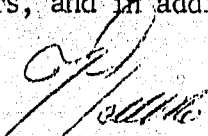
- i) Extend the parts storeroom on the north side of the firehall to provide an additional 350 square feet of room space adjacent to the Mechanical Bay;
 - ii) Remove the wall of the oil storage room to increase the bench space in the machine shop;
 - iii) Structural changes - \$12,000
 Contingencies Add 10% - 1,200
 Sub Total - \$13,200
 - iv) Install a duct work system with six vertical drops, designed to accept vehicle exhaust gases and contaminated air from mechanical equipment;
 - v) Provide a 2h.p. exhaust fan unit mounted on the inside of the exterior wall to discharge the contaminated air and exhaust gases;
 - vi) Designing exhaust system - \$ 1,000
 Installing exhaust system - 7,800
 Contingencies add 10% - 780
 Sub Total - \$ 9,580
- Total Cost - \$22,780

FUNDING

Funding for this project will be provided for in the 1979 Annual Budget.

CONCLUSION

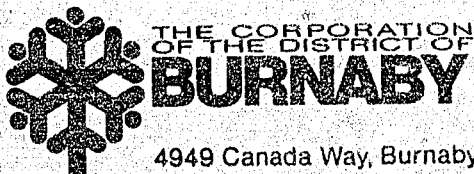
Approval to carry out the foregoing structural and mechanical changes in the Mechanical Repair Section at No. 1 Firehall will provide the Burnaby Fire Department with adequate vehicle maintenance facilities for several years, and in addition, improve the health and safety standards.


 T.G. Naim
 DIRECTOR-FIRE SERVICES

- cc: Chief Building Inspector
- Municipal Treasurer
- Director Planning

TGN/jlm

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4949 Canada Way, Burnaby, B.C. V5G 1M2
Building Department

ATTACHMENT "A"

Telephone (604)
294-7158

Your File: 1864

1978 12 20

Mr. T.G. Naira,
DIRECTOR - FIRE SERVICES

Subject: No. 1 Firehall,
4867 Sperling Avenue
Proposed Mechanical Workshop

Following our visit to No. 1 Firehall on 1978 12 18 to investigate improvements required for the continued use of part of the Hall as a mechanical workshop/repair garage, it is abundantly clear that a major mechanical workshop is not a compatible use within an operating fire station. In our opinion, no effort should be spared to obtain full physical separation of the major workshop/repair garage from any firehall.

Until this separation can be obtained, there is an obvious need to increase the capacity of the exhaust ventilation system for the mechanical bay, and to provide the variety of flex adaptor hoses so that all type of vehicles under repair may be directly connected to the building exhaust system. For evaluating this improvement, we shall have to requisition the service of a consulting mechanical engineer for system design and for cost take-off.

Noise to varying levels and at various times will always be present while the workshop/garage remains where it is in No. 1 Firehall. To attempt to abate noise level by any form of permanent wall construction is not practical in this building since the mechanic is finding it necessary to encroach onto the second bay at times to carry out his repair duties. Moreover, any wall construction would restrict movement on the operations floor for the mechanic's staff as well as for the fire fighters' staff, and such restriction would decrease safety for both staff groups.

ATTACHMENT "A"

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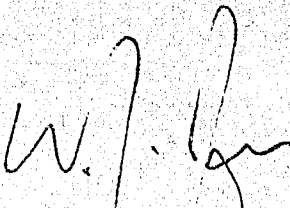
Mr. T.G. Hairn,
DIRECTOR - FIRE SERVICES

129
1978 12 20

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The encroachment of mechanical operations does present some possible hazard to personnel responding to fire calls. At the same time, storage capacity for equipment and supplies used by the mechanic is far from sufficient for the scope of repair work now having to be undertaken. The suggestion to extend the parts storeroom on the north side of the Hall up to the hose-drying tower is a feasible stopgap measure for the short-term. This addition could add approximately 350 square feet of room space adjacent to the mechanical bay. The addition of such space could alleviate the risk factor by allowing some equipment and supplies to be removed from the operations floor. It will also allow for removal of the wall of the oil storage room to permit of needed increase of bench space in the machine room. The cost of this addition and interior alteration, without benefit of full drawings, is estimated roughly at \$12,000.

If you will provide us with an account number, we will requisition the service of a consulting engineer to assist in the evaluation of repairs to the building exhaust system.



M.J. Jones,
CHIEF BUILDING INSPECTOR

MJJ:lm

c.c. MUNICIPAL TREASURER
PLANNING DIRECTOR
MUNICIPAL MANAGER

ATTACHMENT "A"