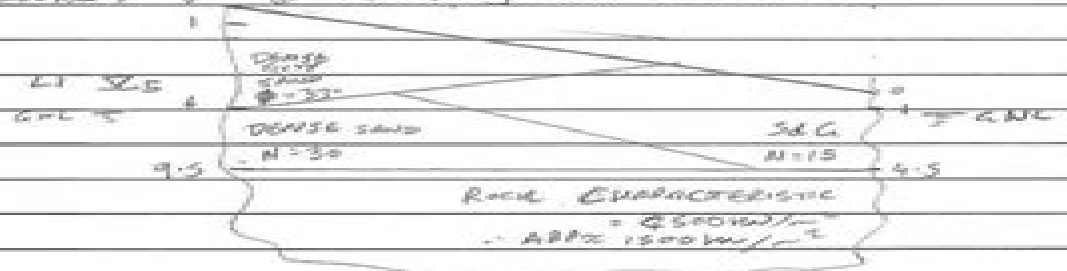


2019 JAN EXAM - Q1 MIXED USE BUILDING
1a. DESIGN APPRAISAL
INITIAL THOUGHTS.

STREET ZONES:

6	OFFICE	2.8	4	CONCOURSE	5.8	8
5	OFFICE	2.8	6	SHOP	3.5	5
4	SHOP	2.5	5	SHOP	3.5	5
3	SHOP	2.5	5	SHOP	3.5	5
2	SHOP	2.5	5	CONCOURSE	6.5	10
1	SHOP	2.5	5			

GROUND: 0 retaining wall this side.



GRID: 16-28-16 18-24-18
MUNICIPALITY: 8-8-7-7-7-8-8 9-9-8-8-8-7-7

FIRE: 90 min resistance - Shop/Office $\leq 30m$

ROBUSTNESS: CLASS 2b - horizontal & vertical ties.

MOVEMENT JOINTS: 60m Not required for steel building
may be req'd for concrete.

STABILITY: NO bracing on front elevation - brace 3 sides / cores
ISSUES: Set back drop zone - cantilever / 23m span variable.
no cols in concourse - transfer of L3 / viaduct

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web in alpha decay an alpha particle is ejected from an unstable nucleus so here's our unstable nucleus uranium 238 an alpha particle has the same composition as a helium nucleus we saw the helium nucleus in the previous video there are two protons in the helium nucleus and two neutrons

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web sep 12 2022 the half life of the nuclei and thus the material is $t_{1/2} = 693 \text{ t}$ $t_{1/2} = 693 \text{ million years}$ 35 a the decay constant is $\lambda = 1.99 \times 10^{-5} \text{ s}^{-1}$ $\lambda = 1.99 \times 10^{-5} \text{ s}^{-1}$ b since strontium 91 has an atomic mass of 90 90 g

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