

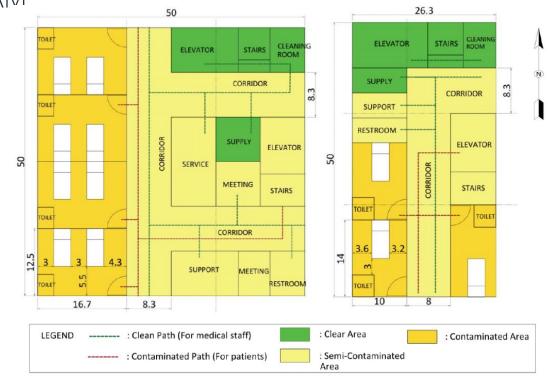




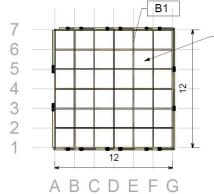


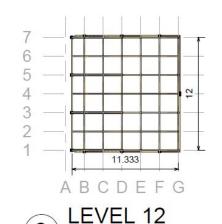
GOLDFINCH HOSPITAL

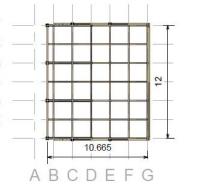
UNIVERSITY OF TORONTO SEISMIC DESIGN TEAM

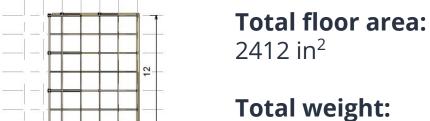


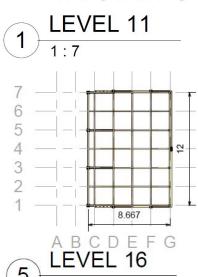
TYPICAL FLOOR PLANS



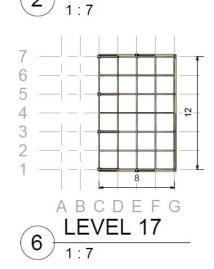


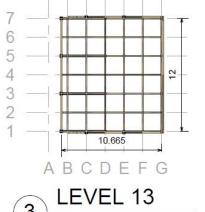




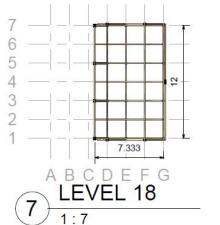


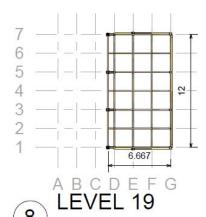
1:7









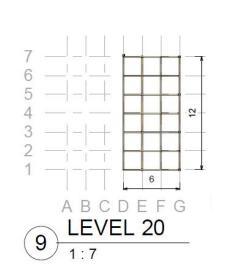


9.333

ABCDEFG

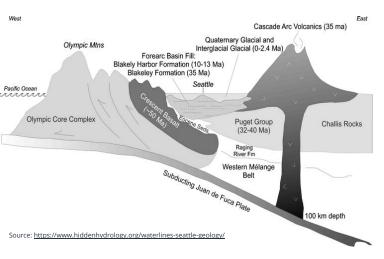
LEVEL 15

1:7

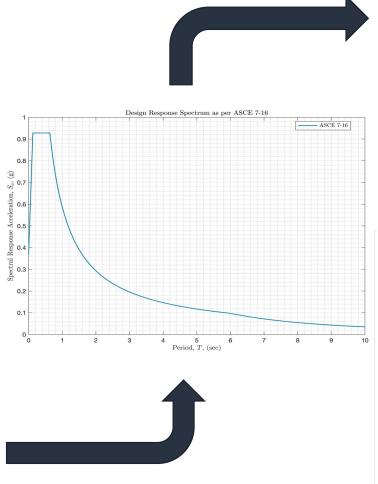


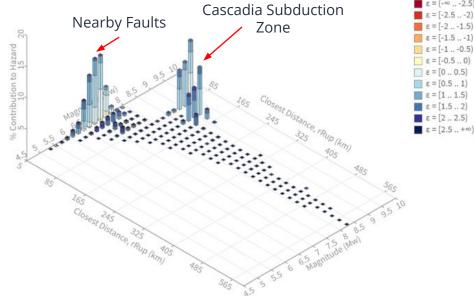
0.436 lb

GEOTECH & SEISMICITY

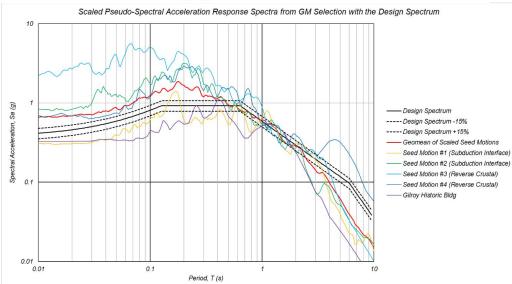


- Borehole log (~185 ft) available from adjacent site
 - very loose to medium dense gravelly sand to sandy gravel fill overlying very dense/stiff silty sand till, silty sand, sand, silt, and clay
 - Groundwater was encountered at the time of drilling at a depth of 9.5 feet
- Site Class F as per ASCE 7-16 (since liquefaction is likely due to loose sandy and silty soils near the ground surface and high groundwater level)
- **Site Class E** (if liquefaction is mitigated, determined from shear wave velocity)
- The risk category of this hospital is "Risk Category IV"

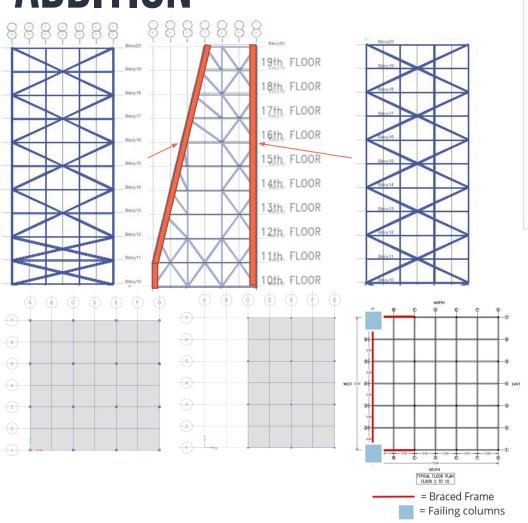


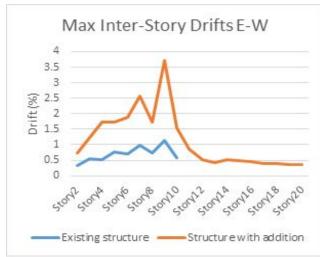


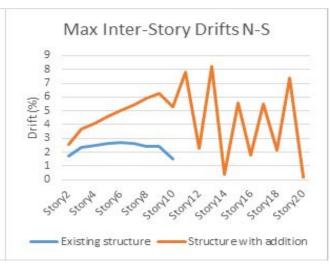
Deaggregation Plot for T = 2.0 seconds



ADDITION

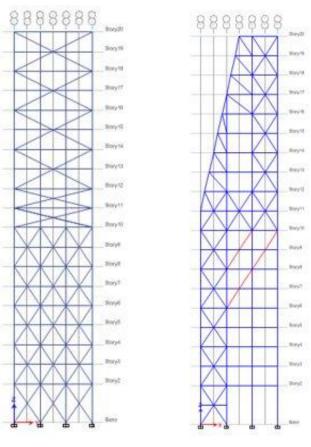




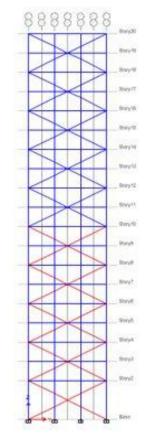


Loading Type	Max D/C Ratio Existing Structure	Max D/C Ratio With Addition	Member Type
Axial Comp.	49%	119%	Column
Axial Tension	24%	58%	Column
Bending Mom.	20%	64%	Beam
Shear	3.7%	8.2%	Beam

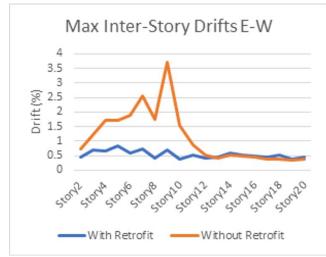
RETROFIT

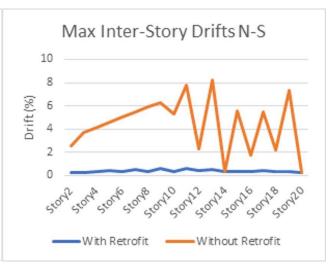


West Face North/South Faces



East Face





Loading Type	Max D/C Ratio Pre-Retrofit	Max D/C Ratio With Retrofit	Member Type
Axial Comp.	119%	34%	Column
Axial Tension	58%	15%	Column
Bending Mom.	64%	9.9%	Beam
Shear	8.2%	7.4%	Beam