





#### TOWN OF MARKHAM



# EMERGENCY OPERATIONS CENTRE (EOC)

8100 Warden Avenue

**Presented By: Fouad Captan** 





- J What is the EOC?
- ✓ Why at the current location?
- ✓ Purpose and functions of the EOC.
- √ Who makes up the EOC?
- ✓ What happens when an emergency/disaster strikes?
- ✓ What happens to the offices & boardrooms in non-emergency situations?
- ✓ The designed space.
- J Dollars and Sense.





#### J What is the EOC?

The EOC, is a central command and control facility responsible for carrying out the principles of emergency preparedness and emergency management, and disaster management functions at a strategic level in an emergency situation ensuring the continuity of operation of a company, political subdivision or other strategic organization.





#### Advantages of the New Location

- √ Will allow for the continuation of emergency response operations in the event of power interruptions in the form of current backup power supply (i.e., UPS, generator) located at 8100 Warden.
- Sufficient and appropriate resources would be incorporated in order to supply uninterrupted communications, decision-making capability, and administration and coordination capacity in order to manage the emergency event.
- ✓ Allow for decreased disruption of Town operations in the event of long-term EOC activation by the elimination of the need to utilize key meeting rooms currently used by staff and the public at the Civic Centre.
- √ Serve as a training area and meeting rooms that can be converted quickly into a functioning EOC.



#### J Purpose and functions of the EOC.

- An Emergency Operations Centre is a pre-designated facility, set up
  off site, to provide support to onsite responders that may require
  policy, coordination and resource direction for site activities in
  larger emergencies.
- - Policy, direction and support
  - Information, collection, evaluation and dissemination
  - Coordination of participating agencies and operations
  - Establishment of priorities for emergency response and recovery
  - Resource management (people and equipment)
  - Communications (internal and external)
  - Public Information and warnings.



#### ✓ Who makes up the EOC?

Trained professionals representing different departments of the Town, Region, Province and /or Country. They Include:

- Policy Group: Mayor, Legal Advisor, CAO, Commissioners
- Management: CAO, Emergency Preparedness
   Coordinator/Planner, Communications (Media) Officer.
- Operations: Department/Divisions that would direct communication with the site activity and provide direct support to the site Incident Manager e.g. Fire, Police, Health Department, Water/Wastewater, Transit, etc.
- Planning: Staff who possess an ability to analyze and summarize information, knowledge of information management systems and familiarity with use of maps and plotting information





J What happens when an emergency/disaster strikes?

The Town of Markham has the responsibility for supplying the initial response to an emergency. Upon warning of an impending situation or notification of an emergency, The Mayor, CAO, the Fire Chief or their designate(s) may request that the Fire and Emergency Services Communications Centre activate the Town's Emergency Alerting system.



What happens to the offices & boardrooms in non-emergency situations?

The space continues in regular capacity as convertible meeting rooms, kitchen, lunchroom, classroom and fitness area.



The designed space.

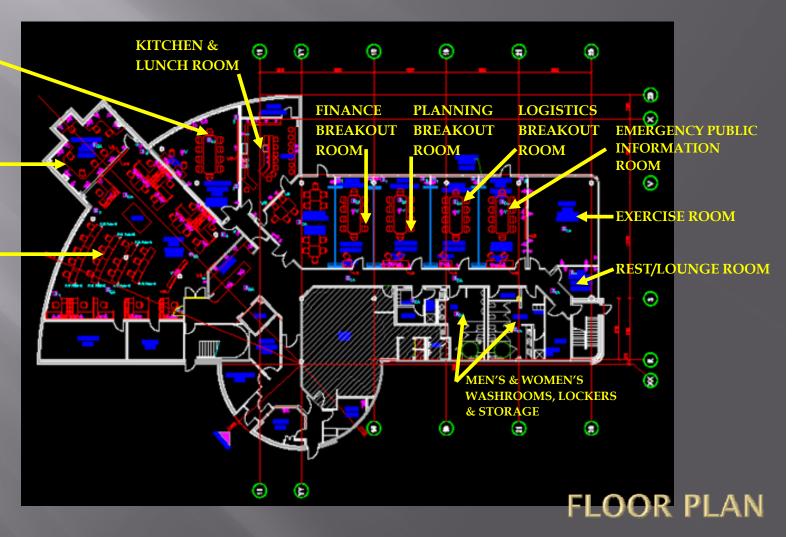




CONTROL GROUP

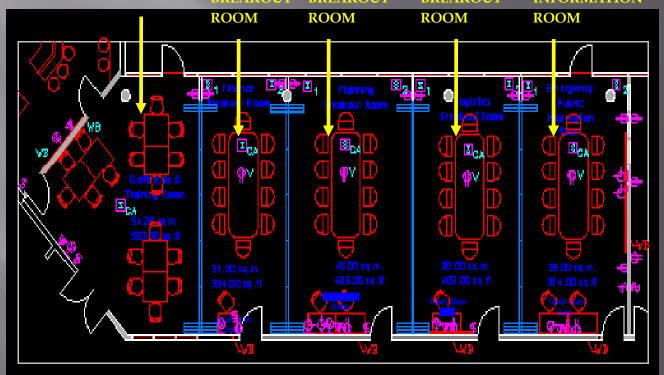
COMMUNICATIONS

OPERATION! ROOM





LUNCHFINANCEPLANNINGLOGISTICSEMERGENCY PUBLICROOMBREAKOUTBREAKOUTBREAKOUTINFORMATION



BREAKOUT ROOMS PLAN



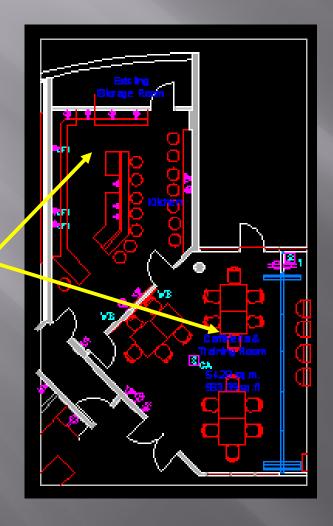


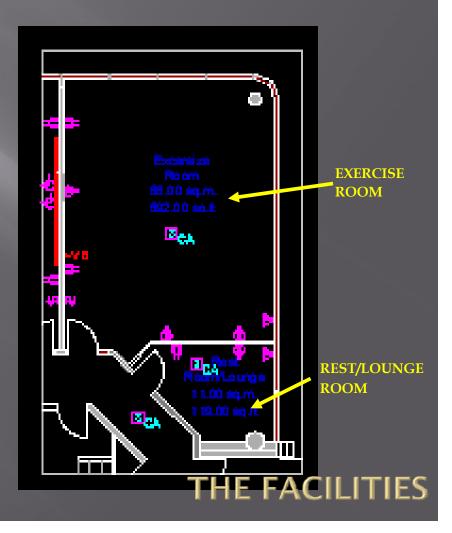




KITCHEN & LUNCH ROOM

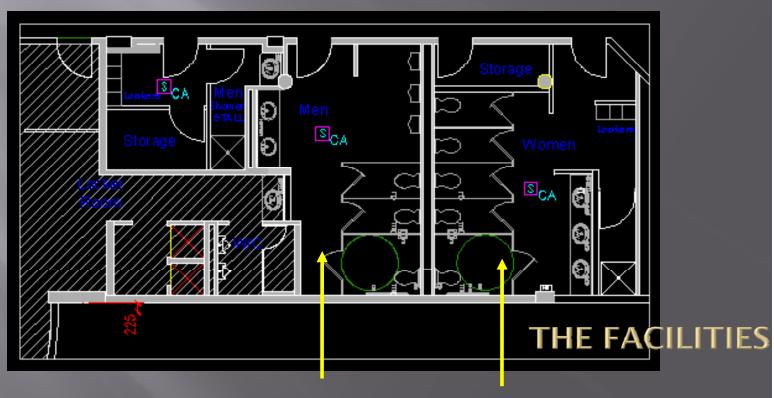












MEN'S WASHROOMS, LOCKERS & STORAGE WOMEN'S WASHROOMS, LOCKERS & STORAGE



- √ The impact of the renovation.
- **✓** Use and or re-use of existing building components.
- J Existing and new furniture.
- ✓ Existing and new equipment.
- √ Finishes including floors, walls ceilings etc.



#### ORDER OF MAGNITUDE COST ESTIMATE

This Order of Magnitude Cost Estimate, reflects the cost of construction for elements and components selected thus far but also takes into consideration the approximate cost of portions of the project that are yet to be finalized. This estimate also provides contingencies for the cost of design or construction modifications that may be required as part of the completed project.







THE ESTIMATE

CITY OF MARKHAM

MERGENCY OPERATIONS CENTRE RETROFITS

ELEMENTAL COST SUMMARY

APRIL 22, 2010 CLASS C

INN ) I 2020HYCL ASSIC LIG DISTINATE YOU EMERGENCY OPERATIONS CENTRE VII S

A : 841 m<sup>2</sup>

	Ratio to			Cost		l A mount	Rate		
ELEMENT/Sub Element	GFA	Quantit	1	Unit Rate	Sub-total	Total	Sub-Total	Total	%
A SHELL						\$0		\$0.00	0.00
A1 SUBSTRUCTURE						\$0		\$0.00	0.00
A11 Foundations	0.00	0	m²	0.00	\$0		\$0.00		0.000
A12 Basement Excavation	0.00	0	m <sup>3</sup>	0.00	\$0		\$0.00		
A13 Special Conditions	0.00	0	m <sup>3</sup>	0.00	\$0		\$0.00		
A2 STRUCTURE	1.5022.404			100000		\$0	N MALECON.	\$0.00	0.0
A21 Lowest Floor Construction	0.00	0	m².	0.00	\$0		\$0.00		
A22 Upper Floor Construction	0.00	0	m²	0.00	\$0		\$0.00		
A222 Stair Construction	0.00	0	flts	0.00	\$0		\$0.00		
A23 Roof Construction	0.00	0	m²	0.00	\$0		\$0.00		
A3 EXTERIOR ENCLOSURE						\$0		\$0.00	0.0
A31 Walls Below Grade	0.00	0	m²	0.00	\$0		\$0.00		
A32 Walls Above Grade	0.00	0	m²	0.00	\$0		\$0.00		
A33 Windows & Entrances	0.00	0	m²	0.00	\$0		\$0.00		
A34 Roof Covering	0.00	0	m²	0.00	\$0		\$0.00		
A35 Projections	0.00	0	m²	0.00	\$0		\$0.00		
B INTERIORS						\$291,548		\$346.67	30.9
B1 PARTITIONS & DOORS						\$120,479		\$143.26	12.7
B11 Partitions	#REF!	#REFI	m²	#REFI	\$103,129	100000000000000000000000000000000000000	\$122.63	100.000	10000
B12 Doors	0.01	8	no.	2,168.75	\$17,350		\$20.63		
B2 FINISHES	0.01		110.	2,100.10	V11,000	\$89,600	420.00	\$106.54	9.5
B21 Floor Finishes	0.78	658	m²	82.33	\$54,176	400,000	\$64.42	4100.01	
B22 Ceiling Finishes	0.34	289	m²	47.60	\$13,755		\$16.36		
B23 Wall Finishes	1.90	1,597	m²	13.57	\$21,669		\$25.77		
B3 FITTINGS & EQUIPMENT	1.50	1,001		10.01	421,000	\$81,469	920.11	\$96.87	8.6
B31 Fittings & Fixtures	1.00	841	m²	79.04	\$66,469	401,400	\$79.04	400.07	0.0
B32 Equipment	1.00	841	m²	17.84	\$15,000		\$17.84		
B33 Conveying Systems	0.00	041	stp	0.00	\$15,000		\$0.00		
C SERVICES	0.00	U	sup	0.00	\$0	\$343,215	\$0.00	\$408.10	36.4
The state of the s	_		_			\$222,415		\$264.46	
C1 MECHA NICAL	4.00	044		440.74	\$98.150	\$222,415	A440.74	\$264.46	23.6
C11 Plumbing & Drainage C12 Fire Protection	1.00	841 841	m² m²	116.71 17.68	\$14,865		\$116.71 \$17.68		
C13 HVAC	1.00	841	m²	112.25	\$94,400		\$112.25		
C14 Controls	1.00	841	m²	17.84			\$17.84		
C2 ELECTRICAL	1.00	041	III.	17.04	\$15,000	\$120.800	\$17.04	\$143.64	12.8
	1.00	841	m²	8.46	A7 111	\$120,800	\$8.46	\$143.04	12.0
C21 Service & Distribution	1.00	841			\$7,111				
C22 Lighting, Devices & Heating	1.00	841	m² m²	64.15 71.03	\$53,950 \$59,739		\$64.15 \$71.03		
C23 Systems & Ancillaries		841	m	71.03		74.000.000.00	\$/1.03		
NET BUILDING COST - EXCLUDING SITE & ANCILLARY					\$634,762	\$634,762		\$754.77	67.3
D SITE & ANCILLARY WORK						\$67,470		\$80.23	7.1
D1 SITE WORK						\$4,000		\$4.76	0.4
D11 Site Development	1.00	841	m²	4.76	\$4,000		\$4.76		
D12 Mechanical Site Services	1.00	841	m²	0.00	Nil		\$0.00		
D13 Electrical Site Services	1.00	841	m²	0.00	Nil		\$0.00		
D2 ANCILLARY WORK						\$63,470		\$75.47	6.7
D21 Demolition	0.00	0	m²	0.00	\$0		\$0.00		
D22 Alterations	1.00	841	m²	75.47	\$63,470		\$75.47		
D23 Cash Allowances	0.00	0	m²	0.00	\$0		\$0.00		
NET BUILDING COST - EXCLUDING GENERAL REQU	REMENTS				\$702,232	\$702,232		\$835.00	74.5
Z GENERAL REQUIREMENTS						\$105,335		\$125.25	11.1
Z1 GENERAL REQUIREMENTS & FEE			_			\$105,335		\$125.25	11.1
Z11 General Requirements (%)		10%			\$70.223	4100,000	\$83.50	V120.20	
Z12 Fee (%)		5%			\$35,112		\$41.75		
TOTAL CONSTRUCTION ESTIMATE - EXCLUDING AL	I OWA NCES	970			\$807,567	\$807,567	V11.10	\$960.25	85.7
	LOWANCES				\$807,567			10000100000	
Z2 ALLOWANCES					200000000000000000000000000000000000000	\$134,379	0.000.000.000	\$159.78	14.2
Z21 Design & Pricing (%)		8%			\$64,605		\$76.82		l
Z22 Escalation Allowance (%)		0%			\$0		\$0.00		l
Z23 Construction Allowance (%)		8%			\$69,774		\$82.97		
	VEC				\$941,946	\$941,946		\$1,120.03	100.0
	YES								
TOTAL CONSTRUCTION ESTIMATE - EXCLUDING TA	YES					9.0			
TOTAL CONSTRUCTION ESTIMATE - EXCLUDING TA	XES	0%			\$0	\$0	\$0.00		
TOTAL CONSTRUCTION ESTIMATE - EXCLUDING TA GOODS & SERVICES TAX	YES	0%			\$0	\$0 \$941,946	\$0.00		





# THANK YOU FOR THE OPPORTUNITY TO MAKE THIS PRESENTATION

**QUESTIONS**