



CITY OF VAUGHAN FIRE STATION 7-12

9511 WESTON ROAD, VAUGHAN

ARCHITECT
THOMAS BROWN ARCHITECTS INC.
197 SPADINA STREET, SUITE 500
TORONTO, ON
M5T 2C8
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STRUCTURAL CONSULTANT
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MECHANICAL CONSULTANT
JAIN CONSULTANTS INC.
7405 EAST DANBRO CRESCENT
MISSISSAUGA, ON
ON L5N 6P8
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ELECTRICAL CONSULTANT
JAIN CONSULTANTS INC.
7405 EAST DANBRO CRESCENT
MISSISSAUGA, ON
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SITE SERVICING CONSULTANT
MGM CONSULTING INC.
400 BRONTE ST. SOUTH
MILTON, ON
L5T 0H7
TEL: (905) 875-1228

ARCHITECTURAL DRAWING LIST

SHEET	DRAWING TITLE
A0.0	DRAWING INDEX & OBC MATRIX
A0.1	GUIDE TO USE OF DRAWINGS, TYPICAL DETAIL LIST, ABBREVIATIONS
A0.2	EXTERIOR & INTERIOR ASSEMBLIES
A0.3	FIXTURE MOUNTING HEIGHTS
A1.1	FIRE, LIFE SAFETY, & AODA REQUIREMENTS
A2.1	SITE SURVEY
A2.2	SITE DEMOLITION, SITE DETAILS
A2.3	TREE INVENTORY/ REMOVAL/ PRESERVATION PLAN
A2.4	TREE INVENTORY/ REMOVAL/ PRESERVATION PLAN SCHEDULES
A2.7	SITE PLAN & SITE PLAN GENERAL NOTES
A2.8	LAYOUT - SITE PLAN
A2.9	GENERAL SITE DETAILS
A2.10	GENERAL SITE DETAILS
A3.1	FOUNDATION PLAN
A3.2	LAYOUT - FOUNDATION & GROUND FLOOR
A3.3	GROUND FLOOR PLAN - GENERAL ARRANGEMENT
A3.4	GROUND FLOOR - WALL AND WINDOW LAYOUT
A3.5	MEZZANINE PLAN - GENERAL ARRANGEMENT, WALL AND WINDOW LAYOUT
A3.6	AUXILIARY STAIR DETAILS
A3.7	APPARATUS BAY DETAILS
A4.1	ROOF PLAN
A5.1	BUILDING ELEVATIONS
A5.2	BUILDING ELEVATIONS
A6.1	CLADDING, GLAZING AND LOUVER ELEVATIONS
A6.2	CLADDING, GLAZING AND LOUVER ELEVATIONS

ARCHITECTURAL DRAWING LIST

SHEET	DRAWING TITLE
A7.1	BUILDING SECTIONS
A7.2	BUILDING SECTIONS
A7.3	BUILDING SECTIONS
A8.1	SECTION DETAILS
A8.2	SECTION DETAILS
A8.3	SECTION DETAILS
A8.4	SECTION DETAILS
A8.5	APPARATUS BAY AXO VIEW
A8.1	HOSE TOWER PLAN AND SECTION
A8.2	HOSE TOWER DETAILS
A10.1	FLOOR FINISH AND FURNITURE PLAN
A10.2	FLOOR PLAN FINISH PLAN AND DETAILS
A11.1	REFLECTED CEILING PLAN
A12.1	WASHROOM PLAN & ELEVATIONS
A12.2	WASHROOM DETAILS
A13.1	MILLWORK PLANS AND ELEVATIONS & DETAILS
A13.2	MILLWORK PLANS AND ELEVATIONS & DETAILS
A13.3	MILLWORK DETAILS
A13.4	MILLWORK SCHEDULE DOOR SCHEDULE
A13.5	MISCELLANEOUS DETAILS
A13.6	DOOR FINISH SCHEDULE

STRUCTURAL DRAWING LIST

SHEET	DRAWING TITLE
S1-01	PLAN NOTES SCHEDULES AND DETAILS
S1-02	FOUNDATION PLAN
S1-03	ROOF FRAMING PLAN
S1-04	HIGH ROOF FRAMING PLAN
S1-05	LOADING PLANS AND GLULAM MOMENT FRAME ELEVATION
S1-06	CONCRETE WALL ELEVATIONS
S2-02	FOUNDATION SECTIONS
S4-01	GENERAL NOTES
S4-02	TYPICAL DETAILS
S4-03	TYPICAL NOTES

MECHANICAL DRAWING LIST

SHEET	DRAWING TITLE
M1.1	FLOOR PLAN - PLUMBING
M1.2	MEZZANINE PLAN - PLUMBING
M2.0	SITE PLAN - HVAC
M2.1	FLOOR PLAN - HVAC
M2.2	ROOF PLAN - HVAC
M2.3	FLOOR PLAN - HVAC PIPING
M2.4	MEZZ. MECH RM FLOOR PLAN & SECTIONS - HVAC
M2.5	SCHEDULES
M2.6	DETAILS
M2.7	SCHEDULES
M2.8	SCHEDULES
M3.1	FLOOR PLAN - SPRINKLERS
M3.2	MEZZANINE PLAN - SPRINKLERS

ELECTRICAL DRAWING LIST

SHEET	DRAWING TITLE
E1.0	LEGEND, SCHEDULE AND DETAILS
E1.1	SITE PLAN - ELECTRICAL LAYOUT
E2.1	LIGHTING LAYOUT - GROUND FLOOR
E2.2	LIGHTING LAYOUT - MEZZANINE PLAN
E3.1	POWER & SYSTEMS LAYOUT - GROUND FLOOR
E3.2	POWER & SYSTEMS LAYOUT - MEZZANINE LEVEL
E3.3	POWER & SYSTEMS LAYOUT - ROOF PLAN
E4.0	SINGLE LINE DIAGRAM
E5.0	SCHEMATICS & DETAILS
E6.0	FIRE ALARM SYSTEM

LANDSCAPE CONSULTANT

STRYBOS BARRON KING LTD.
5770 HURONTARIO ST.
MISSISSAUGA, ON
L5R 3G5

LANDSCAPE DRAWING LIST

SHEET	DRAWING TITLE
L100	LANDSCAPE PLAN
L200	LANDSCAPE DETAILS

ONTARIO BUILDING CODE DATA MATRIX

PART 3 - FIRE PROTECTION, OCCUPANT SAFETY AND ACCESSIBILITY

Name of Practice THOMAS BROWN ARCHITECTS INC. Address 1 197 Spadina Avenue, Suite 500 Address 2 Toronto, ON M5T 2C8		Name of Project CITY OF VAUGHAN 7-12 P2104 Location/Address 9541 WESTON ROAD, WOODBRIDGE, ON, L4H 3A5 Contact Chris Kubbinga					
3.00 BUILDING CODE VERSION		O.Reg. 332/12		LAST AMENDMENT		O.Reg. 762/20	
3.01 PROJECT TYPE		New Construction				[A] 1.1.2.	
3.02 MAJOR OCCUPANCY CLASSIFICATION		OCCUPANCY		USE		3.1.2.1.(1)	
		D F3		Business & Personal Services Low Hazard Industrial		Administrative Offices & Fire Station Storage Garage	
3.03 SUPERIMPOSED MAJOR OCCUPANCIES		N/A				3.2.2.7.	
		N/A					
3.04 BUILDING AREA (m²)		DESCRIPTION		EXISTING		NEW	
		Ground Floor		0.00		845.40	
		TOTAL		-		845.40	
						845.4	
3.05 GROSS AREA (m²)		DESCRIPTION		EXISTING		NEW	
		Ground Floor		0.00		916.10	
		TOTAL		-		916.10	
						916.1	
3.06 MEZZANINE AREA (m²)		DESCRIPTION		EXISTING		NEW	
		N/A		0.00		70.70	
		TOTAL		-		70.7	
						70.7	
3.07 BUILDING HEIGHT		1 0		STOREYS ABOVE GRADE STOREYS BELOW GRADE		14.50 (m) ABOVE GRADE	
						[A] 1.4.1.2. & 3.2.1.1.	
3.08 HIGH BUILDING		No				3.2.6	
3.09 NUMBER OF STREETS/ FIREFIGHTER ACCESS		1		STREET(S))		3.2.2.10. & 3.2.5.	
3.10 BUILDING CLASSIFICATION (SIZE AND CONSTRUCTION RELATIVE TO OCCUPANCY)		3.2.2.56. 3.2.2.78.		Group D, up to 2 Storeys, Sprinklered Group F, Division 3, up to 2 Storeys		3.2.2.20-83.	
3.11 SPRINKLER SYSTEM		Required		PROVIDED:		Entire Building	
		DESCRIBE		Sprinkler System is part of Contract scope		3.2.1.5. & 3.2.2.17.	
3.12 STANDPIPE SYSTEM		Not Required				3.2.9.	
3.13 FIRE ALARM SYSTEM		Required		TYPE PROVIDED		Single Stage	
		Fire Alarm System provided as part of Contract				3.2.4.	
3.14 WATER SERVICE/ SUPPLY IS ADEQUATE		Yes					
3.15 CONSTRUCTION TYPE		RESTRICTIONS		Combination Permitted		3.2.2.20-83.	
		ACTUAL		Combination		3.2.1.4.	
				HEAVY TIMBER CONSTRUCTION		YES	
						4.1.2.1.(3). T4.1.2.1.B.	
3.16 IMPORTANCE CATEGORY		Post-Disaster					
3.17 SEISMIC HAZARD INDEX (IE Fa Sa (0.2)) =		0.12		Seismic Design Required for Table 4.1.8.18. Items 6 to 21		4.1.8.18.(1)	
3.18 REASONING FOR REQUIREMENT		Importance Category and Seismic Hazard Index				4.1.8.18.(2)	
3.19 OCCUPANT LOAD		FLOOR LEVEL/AREA		OCCUPANCY TYPE		BASED ON	
		First Floor		Group D & F3		Design of space	
		TOTAL				10	
						10	
3.20 HAZARDOUS SUBSTANCES		No				3.3.1.2. & 3.3.1.19.	
3.21 REQUIRED FIRE SEPARATIONS		1.5hr N/R 1hr 1hr 1hr 1hr 1hr		Storage Garage Separation Between Group D & F3 Janitor's Closet Storage Room Mechanical Room (Service Room) Electrical Room (Service Room) I.T Room (Service Room) Sprinkler Room (Service Room)		3.3.4.3 3.6.1.20 3.3.4.3 3.6.2.1 3.6.2.1 3.6.2.1 3.6.2.1	
3.22 REQUIRED FIRE RESISTANCE RATINGS		HORIZONTAL ASSEMBLY		RATING (H)		LISTED DESIGN NO. ULC OR ASSEMBLY SB-2	
		FLOORS OVER BSMT		N/A		N/A	
		FLOORS		60 min		N/A	
		MEZZANINE		N/A		N/A	
		ROOF		N/A		N/A	
		SUPPORT ASSEMBLY		RATING (H)		LISTED DESIGN NO. ULC OR ASSEMBLY SB-2	
		FLOORS		60 min		N/A	
		MEZZANINE		N/A		N/A	
		ROOF		N/A		N/A	
3.23 SPATIAL SEPARATION		WALL		EBF AREA (m2)		L.D. (m) OBC	
		North		367		23.00	
		West		130		31.00	
		East		144		16.00	
		South		367		6.00	
						N/A	
						45min	
						Combination	
						Combination	
						Combination	
						Combination	
						Combination	
		WALL		L.D. (m) OBC		L.D. (m) ACTUAL	
		North		23.00		23.30	
		West		31.00		31.07	
		East		16.00		16.76	
		South		6.00		6.54	
						100.00%	
						12.93%	
						49.11%	
						16.90%	
						N/A	
						N/A	
						59.56%	
						13.33%	
3.24 BARRIER-FREE DESIGN		Yes				3.8.	
3.25 BARRIER-FREE ENTRANCES		No. OF ENTRANCES PEDESTRIAN ENTRANCES		2		3.8.1.2	
		No. OF ENTRANCES REQ'D TO BE BARRIER FREE		1		3.8.1.2	
3.26 BUILDING EXITS		DESCRIPTION		REQUIRED		PROVIDED	
		Ground Floor		2		2	
						3.4.2.1	
3.27 LOCATION OF EXITS		OCCUPANCY		REQUIRED		PROVIDED	
		Business & Personal Services		40m			
		Low Hazard Industrial		45m			
3.28 PLUMBING FIXTURE REQUIREMENTS RATIO:		MALE:FEMALE = 50:50 EXCEPT AS NOTED OTHERWISE				3.7.4.	
		FLOOR LEVEL/AREA		OCCUPANT LOAD		OBC SENTENCE	
		First Floor Male		9		3.7.4.7	
		First Floor Female		9		3.7.4.7	
3.29 ENERGY EFFICIENCY		COMPLIANCE PATH:		ASHRAE 90.1-2013 +SB10 Division 3 Chapter 2			
		CLIMATIC ZONE:		ZONE 6			
3.30 BUILDING ENVELOPE REQUIREMENTS		DESCRIPTION		REQUIRED		PROVIDED	
		ROOF, ENTIRELY ABOVE DECK:		R-40 ci		R-66.9, R-65.3	
		WALLS ABOVE GRADE, MASS:		R-20 ci		R-41.8, R-45, R-41.4	
		WALLS ABOVE GRADE, STEEL FRAMED:		N/A			
		SLAB-ON-GRADE (UNHEATED)		R-15 for 48in		R-15.8, R-16.4	
						SB 10	
						5-5.7	
						5-5.7	
						5-5.7	
						5-5.7	