

Nelson Wong Architect Inc.

FIRM

Nelson Wong Architect Inc. was established in 1989. The principal, Nelson Wong contributes over 30 years of planning and architectural experience towards his practice.

Both a Registered Planner with the Ontario Professional Planners Institute and a Registered Architect with the Ontario Association of Architects, he provides a broad range of services to satisfy his clients' needs. In this way, the client gains the benefit of a comprehensive service spanning between planning and architectural disciplines in our firm.

This comprehensive consulting approach has been applied towards the specialized area of Police/Public Safety Facilities work internationally.

OFFICE PHILOSOPHY

The firm has a policy of providing the personal attention, commitment and experience of Nelson Wong, principal of the firm, to all work undertaken. He is directly involved from the initial briefing meeting to the final report presentation or building occupancy. He is a working principal, serving his clients with sound, practical and economical recommendations/solutions.

Although there are general planning principles and approaches which apply to all police studies/projects, the staff are also sensitive to the particular needs of the police staff, the community, and the approving bodies. We listen carefully to the police and community's concerns. As such, new/renovated police facilities are tailored to reflect a balance between an efficient/economical police operation with the needs of a community.

EXPERIENCE

The firm specializes in needs assessment and feasibility studies as well as the planning and design of police/public safety facilities.

During his career, Nelson Wong has been responsible for over 160 studies of which 130 were public safety facility studies, and the design of 40 projects of which 22 were public safety facilities.

Site planning, conceptual design, contract document preparation and site review complement the planning services related to the determination of staff and space requirements, and the site selection/building audit services.

The firm consists of exceptionally qualified staff that contributes to the design, technical or administrative aspects of any study/projects as required.

NWAI PROJECT & STUDIES LIST

CULTURE:

- Halton Heritage Centre
- Chinese Cultural Centre - Design Proposal

POLICE FACILITY:

- Barrie Police Headquarters, ON ¹
- Fishkill Police Station, New York, USA. ²
- Longmeadow Police Station Renovation, MA, USA ³
- Niagara Regional Police, 33 Division Station - Welland, ON ⁴
- **Peel Regional Police Service:**
 - Clarkson Community Police Station Mississauga, ON
 - Cooksville Community Police Station, Brampton, ON
 - No. 11 Div. Police Station Renovation - Peel Region, ON
 - 230 Lakeshore Rd. Community Police Station, Port Credit
 - 301 Matheson Blvd. Police Storage and Office Renovation
 - P.R.P. Multi Purpose Facility Derry Rd, Mississauga, ON ⁵
 - Peel Police Headquarter Site Renovations/Signage, Brampton, ON ⁶
 - South Brampton Community Police Station, Brampton, ON
- **Toronto Police Service:**
 - Bail and Parole Building, Reno+Add. Scarborough, ON
 - Cranfield Garage Renovations and Addition, East York, ON
 - Horse Palace Renovation Toronto (Site Admin.), ON ⁷

STUDIES:

- **Police/Public Safety Facility Studies:**
 - Auburn Hills Public Safety Facility Study, MI, USA
 - Greenfield Police Department Feasibility Study, MA, USA. ⁸
 - Holden Public Safety Facility Study, MA, USA ⁹
 - Ipswich Public Safety Facility Study, MA (underway), USA ¹⁰
 - Nahant Public Safety Facility Study, MA, USA. ¹¹
 - Niagara Regional Police Headquarters and Police Stations Study ON. ¹²
 - Peel Regional Police Study: Amalgamation of Administration, Storage/Holding Facility, ON
 - Saint John Police force Headquarters Study, NB ¹³
 - Timmins Police Headquarters Feasibility Study, ON ¹⁴
 - Victoria Police Department, Needs Assessment Study, BC
 - Windsor Police Force, Needs Assessment Study, ON ¹⁵
 - Wilbraham Public Safety bldg. MA, USA ¹⁶

¹ In joint venture with Malcolm and Boyko Architects
² Police Consultant to J. Paul Vosburgh, Architect P.C.
³ Police Consultant to Juster Pope and Frazier Architects.
⁴ Police Consultant to MPS Reinders Niagara Inc.
⁵ Police Consultant to Delcan Corporation.
⁶ Police Consultant to Trow Consulting Engineers Ltd.
⁷ Contract Administrator for T.P.S. Brown & Storey Architects of Record.
⁸ Police Consultant to Juster Pope and Frazier Architects.
⁹ Police Consultant to William Rowe Architects.
¹⁰ Police Consultant to Winter Street Architects.
¹¹ Police Consultant to Dennis Gray Architect.
¹² Police Consultant to Quartek Group Inc.
¹³ Police Consultant to D.F.S. Inc.
¹⁴ Police Consultant to B.H. Martin Consultant Ltd.
¹⁵ Police Consultant to Rebanks Architects Inc.
¹⁶ Police Consultant to Studio One Architect.

- **Community Planning:**
 - Seaton Community Planning Study
- **Other Feasibility Studies:**
 - Halton Heritage Centre Study, Ontario
 - Metropolitan Toronto Vehicle Inspection Facility Study, Ontario
- **Building Audit/Facility Assets Preservation Review:**
 - Metropolitan Toronto Police Headquarters
 - Forensic Laboratory at Metropolitan Toronto Police Headquarters, Ontario
 - Toronto Corporate Service, ON

BUILDING AUDITS:

- **Toronto Police Service, Police Facility Building Audits and Spatial Review Studies:**
 - District 1:
 - 11, 12, 13, 14 & 15 Division Police Station, Toronto, Ontario
 - Central Garage Unit, Toronto, Ontario
 - Central Traffic Unit, Toronto, Ontario
 - District 2:
 - 21,22 & 23 Division Police Station, Etobicoke, Ontario
 - District 3:
 - 31, 32 & 33 Division Police Station, North York, Ontario
 - North Traffic Unit (NTU) - North York, Ontario
 - Emergency Task Force, North York, Ontario
 - Intelligence Building, North York, Ontario
 - Telecom Building, North York, Ontario
 - District 4:
 - 41 and 42 Division Police Station, Scarborough, Ontario
 - 42 Division Police Substation, Scarborough, Ontario
 - East Traffic Unit (ETU), Scarborough, Ontario
 - C.O. Bick College, Scarborough, Ontario
 - District 5:
 - 51, 52, 53, 54 & 55 Division Police Station, Toronto, Ontario
 - Cranfield Garage, East York, Ontario
 - Marine Headquarters, Toronto, Ontario
 - Mounted Police Facility, North York, Ontario
- **Toronto Fire Department, Building Condition Audit Toronto Area Fire Stations:**
 - East York:
 - Fire Station Numbers 1, 2 and 3
 - Etobicoke:
 - Fire Station Numbers 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, and 12
 - North York:
 - Fire Station Numbers 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, and 19
 - Toronto:
 - Fire Station Numbers 1, 2, 3, 5, 7, 8, 10, 11, 12, 14, 15, 16, 17, 20, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 33, 34, 35
 - Scarborough:
 - Fire Station Numbers 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, and 15
 - York:
 - Fire Station Numbers 1, 2, 3, and 4

SERVICES

- **STUDIES:**
 - Needs assessment study
 - Staff / Space determination
 - Site selection study
 - Building audit study
 - Operation/ management study
 - Feasibility studies
 - Master planning
 - Sustainable design studies

- **PROJECTS:**
 - Conceptual design
 - Site planning
 - Schematic design
 - Design development
 - Contract document preparation
 - Project/Construction budget
 - Construction administration
 - Space planning and furniture selection

POLICE FACILITY PLANNING AND RESEARCH

Over the many years that Nelson Wong has completed the numerous needs assessment studies, his firm has compiled substantial statistical data. This data can form the basis of comparison and justification with respect to the projected staff, space requirements and related cost for any police/fire organization.

From the many public safety projects completed, a library of construction details and specifications has been developed from which selections can be made for reuse in new or renovated projects. The selection of appropriate functional, durable details and specifications ensures that each project will stand the test of time.

Nelson Wong is constantly developing his professional expertise in the field of public safety facility planning through attendance at IACP seminars on the Design and Construction of police facilities. He has also shared his expertise with other police/fire departments. Lead lecturer Frank Kershaw presents part of his firm's work at these IACP seminars.

Further, Nelson Wong has written published articles entitled:

- **Planning for Community Based Policing** was published in the International Association of Law Enforcement Planners' *Exchange* spring 1997 issue
- **A Methodology for Determining and Implementing A Capital Project** Municipal World Magazine's July 1991 issue entitled: "

- **From Dream to a Reality - The Barrie Police Headquarter**
in the magazine - [Blue Line](#) April 1999 issue
- **Issues Related to a New Public Safety Facility**
in the magazine - [Blue Line](#) Sept. 1999 issue

These articles are available from our website:

CLIENT RESPONSIVENESS

In the belief that communication is vital amongst our firm, client and consultants, an associated firm, Spidercom Corp. was established in 1996.

This Internet provider service company facilitates Nelson Wong Architect Inc. and Poli.Plan Development Inc, with instantaneous information, communication and distribution of data/drawings locally and worldwide with the use of E-mail, Web Pages, Search Engines, and File Transfer Protocol. Our Internet access is a direct DSL connection that is networked to all of our computer workstations.

POLICE RESEARCH AND INNOVATION

To keep abreast with the rapid changes and innovations in the planning and technology of Police Facilities, Nelson Wong is an associate member of the International Association of Chiefs of Police and member of the Association of Law Enforcement Planners. Through these associations, he has access to the monthly magazine, [The Police Chief](#), and other publications which illustrate current ideas and issues related to police facilities planning.

For further information contact:

Nelson Wong

Address: 146 Vaughan Rd. Unit A,
Toronto, ON, M6C 2M2, Canada.

Phone: 416-657-1048

Fax: 416-657-8773

Email: nelson@nwai.ca

Website: www.nwai.ca



Auburn Hills Public Safety Facility Study, Michigan

This was a comprehensive study including community profile determination, Police, Fire staff and space requirements, site analysis/evaluation and selection, as well as the conceptual design of the new public safety (police and fire) facility on the recommended site. Related total project costs and scheduling were also provided. Lastly, the various municipal departments were spatially reorganised into the proposed vacated police department area within the adjacent Civic Center. After the presentation, the City Council approved of this study.



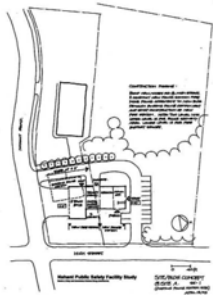
The Barrie Police Headquarters, Ontario¹

This police headquarters, for a population of 90,000, was completed in March 1993. For this large police headquarters project, Nelson Wong Architect Inc. was the prime consultant providing full services in joint venture with a local firm¹. Programming, site planning, design and preliminary working drawings were done by our firm. Design features included: drive through sally port, 3 bay garage for vehicle, boat maintenance, a community meeting room and a community services pavilion, and a trellised upper level patio adjacent to the lunch room. Further, Nelson Wong Architect Inc. was retained to provide interior design coordination and graphic/signage services. Specialized police building details and material selections developed from the previous police projects were specified for this building to ensure that durable, functional materials and fitments were provided. During construction, Nelson Wong attended site meetings to ensure design and contract drawings were followed. This project was tendered over 13% below the project budget.



The Greenfield Police Department Feasibility Study, Mass, U.S.A.²

The current police station is located in downtown Greenfield. It is overcrowded and in poor condition. The purpose of our study was to determine the projected staff and space requirements as well as evaluate an existing Fire Department building for the new police program. A schematic layout was simulated onto the existing building floor plans. From this new layout, architectural, structural, mechanical and electrical analysis/evaluation were done. Further, with the site planning and analysis, this building and site was recommended as appropriate for the new police facility.



Nahant Public Safety Facility, Mass, U.S.A.³

This feasibility study for a combined police station, fire station and ambulance facility is to serve a small community of 4,100 people on a east costal peninsula. Our mandate was to evaluate 3 alternative sites for this new facility. A program was developed for space requirements. From this program, different conceptual designs were developed for 2 of the better sites. A criteria for evaluation was prepared and assessment followed. The preferred site was recommended by consultants based on the overall rating from the evaluation criteria. The local council was presented with our findings and recommendations. Funding for the design phase is now pending.



Milpitas Police Headquarters and Corporation Yard, California⁴

This facility incorporates the full police operations for 130 police staff, including an Emergency Operations Centre (EOC) as well as the city's Community Services/Works Department, such as the administrative offices, maintenance workshops, and equipment storage areas. Situated in a residential area, this public safety facility has sloping roofs, trellises, stucco walls which captures the California residential vernacular. The upper courtyard area provides visual relief as well security for the EOC dispatch staff. The lower level accommodates the security area and parking with controlled access.



Niagara Regional 33 Division Police Headquarters-Welland, Ontario⁵

Nelson Wong Architect Inc. was appointed this project in association with MPS Reinders Niagara Inc. This project is the first new pilot Police Station in the Niagara Region under a new Strategic Plan of reorganizing the Niagara Regional Police Service. Under police chief Grant Waddell, the new direction calls for Community Based Police facilities. Thus the Community spaces such as; the main Community Meeting Hall, Community Services Offices, Victim Service/Neighborhood Watch/Interview Rooms as well as Co-op Student Room are grouped in to a cluster of spaces adjacent to the reception area directly accessible to the public in a friendly environment. The Community Hall is expressed prominently as a visual symbol in the residential setting. Internally, there is a courtyard for the police staff, providing a sense of openness, yet security. This project was tendered at 10% below the project budget.

¹ Joint venture with Malcolm and Boyko Architects
² in association as police facilities consultant with Juster Pope Frazier
³ study was prepared with assistance from local architect, Dennis Gray
⁴ Sr. Associate with Rebanks Architects Inc.
⁵ Police consultant with MPS Reinders Niagara Inc.