



AVIATION PROJECT RECORD

ULRICH LASKA ARCHITECT MAIBC

AVIATION PRACTICE

Fields of Aviation Expertise

Air Terminals

LONG TERM AIRPORT SITE
 MASTERPLANNING
 DEVELOP CONCEPT ALTERNATIVES
 DEVELOP OPERATIONAL CONCEPT
 CONCEPT ANALYSIS & EVALUATION
 SYSTEMS
 AIR TERMINAL SYSTEMS
 GROUND SIDE ACCESS SYSTEMS
 PASSENGER FLOW SYSTEMS
 FLOW SEPARATIONS,
 IMMIGRATION & CUSTOMS SYSTEMS
 CBSA FACILITIES
 AIRSIDE SECURITY & ACCESS
 AIRPORT OPERATIONS CENTRES
 PASSENGER SCREENING SYSTEMS
 BAGGAGE SCREENING SYSTEMS
 AIRCRAFT GATING
 TAXIWAY AND APRON PLANNING
 AIRLINE SYSTEMS
 RETAIL & CONCESSION PLANNING
 LOADING BRIDGES
 PASSENGER WALKWAYS
 BAGGAGE SYSTEMS
 INFORMATION SYSTEMS
 LINE OF SIGHT ANALYSIS
 INTERIOR DESIGN

Airline Operations

STATION MANAGEMENT FACILITIES
 OPERATIONS CENTERS
 AIRCREW OPERATIONS BASE
 FLIGHT ATTENDANT BASE
 AIRLINE COMPUTER CENTRES
 CABIN SERVICE OPERATIONS
 RAMP OPERATIONS
 GROUND SERVICE EQUIPMENT
 OPERATIONS
 AIRLINE DE-ICING SYSTEMS
 AIRCRAFT MAINTENANCE BASES
 STAFF AND CREW FACILITIES
 FIRST CLASS LOUNGES

Airport Commercial Operators

PRIVATE AIR TERMINALS
 FIXED BASE OPERATIONS
 AIRCRAFT HANGARS
 AIRCRAFT MAINTENANCE OPERATIONS
 AIR CARGO FACILITIES
 AIRPORT SUPPORT FACILITIES
 FLIGHT SIMULATORS
 FIRE CRASH RESCUE FACILITIES
 DE-ICING FACILITIES
 FLIGHT KITCHENS

CLIENT PORTFOLIO

Aviation & Institutional Clients

Airport Operators & Government

VANCOUVER INTERNATIONAL AIRPORT
 AUTHORITY (YVRAA)
 VICTORIA AIRPORT AUTHORITY
 ABBOTSFORD AIRPORT AUTHORITY
 CANADIAN AIR TRANSPORT SAFETY
 ASSOCIATION (CATSA)
 PRINCE RUPERT AIRPORT AUTHORITY
 TOWN OF SMITHERS AIRPORT
 ALPHA AVIATION-BOUNDARY BAY AIRPORT
 MONTREAL INTERNATIONAL AIRPORT
 CONSULTANTS
 REGINA AIRPORT AUTHORITY
 YELLOWKNIFE AIRPORT AUTHORITY
 KAMLOOPS AIRPORT AUTHORITY
 TERRACE-KITIMAT AIRPORT SOCIETY
 PITT MEADOWS AIRPORT AUTHORITY
 SIOUX LOOKOUT AIRPORT
 B.C. GOVERNMENT AIR SERVICES
 PUBLIC WORKS CANADA
 CBSA
 CANADA POST
 CITY OF RICHMOND
 TRANSPORT CANADA
 CANADA COAST GUARD
 INTERVISTAS
 YVR AIRPORT SERVICES
 B.C. INST. OF TECHNOLOGY

Private Aviation Corporations

AVIS CORPORATION
 BENDIX - AVELEX
 CANADA POST
 CARA
 CDS BAGGAGE SERVICES
 CHC CANADIAN HELICOPTERS
 C.P. HOTELS
 CUSTOMS BROKERS AND FORWARDERS
 EXECUTIVE AIRCRAFT LTD
 FEDEX
 HUDSON GENERAL
 IMPERIAL OIL (ESSO AVITAT),
 INNOTECH AVIATION,
 INTERNATIONAL AVIATION TERMINALS
 MARATHON AVIATION TERMINALS
 MATAAC
 NUANCE GROUP
 PENTA AVIATION
 THE JETWAY CORPORATION,
 VANCOUVER AIRPORT FUEL CONSORTIUM
 LSG SKYCHEFS (LUFTHANSA)
 MTU CANADA

Airlines

AIR B.C.
 AIR CANADA
 AIR FRANCE
 ALASKA AIRLINES
 ALL NIPPON AIRLINES
 AMERICA WEST AIRLINES
 AMERICAN AIRLINES
 BRITISH AIRWAYS
 C.P.AIR
 CANADIAN AIRLINES
 CANADIAN RGNL AIRLINES
 CANADA 3000
 CYPRESS AIRLINES
 DELTA AIRLINES
 HARMONY AIRLINES
 HORIZON AIRLINES
 JAPAN AIRLINES
 KLM ROYAL DUTCH AIRLINES
 LUFTHANSA AIRLINES
 OLYMPIC AIRLINES
 PHILIPPINE AIRLINES
 RENO AIR
 ROYAL AIR MAROC
 SABENA BELGIAN AIRLINES
 SAS SCANDINAVIAN AIRLINES
 UNITED AIRLINES

Institutional Clients

UNIVERSITY OF BRITISH COLUMBIA
 BRITISH COLUMBIA INSTITUTE OF TECHNOLOGY
 UNIVERSITY OF THE FRASER VALLEY
 CITY OF RICHMOND
 PROVINCE OF BRITISH COLUMBIA
 BRITISH COLUMBIA BUILDINGS CORPORATION
 TRANSPORT CANADA
 PUBLIC WORKS GOVERNMENT SERVICES
 CANADA
 B.C. MINISTRY OF ATTORNEY GENERAL
 B.C. MINISTRY OF SOLICITOR GENERAL
 B.C. MINISTRY OF SOCIAL SERVICES
 B.C. MINISTRY OF FORESTS

SELECTED EXPERIENCE

Aviation Project Record

Terminal planning, airside systems, airline facilities, support facilities, cargo operations and aircraft maintenance.

Passenger Terminal Projects

TERMINAL CONCEPTS & PROGRAMMING

VANCOUVER INTERNATIONAL AIRPORT, MAIN INTERNATIONAL TERMINAL CONCEPT, Operational Concept Development for New International Air Terminal at Vancouver International Airport, \$250,000,000.

VICTORIA AIRPORT, MAIN AIR TERMINAL REDEVELOPMENT & EXPANSION, OPERATIONAL CONCEPT PLANNING. \$25,000,000

MONTREAL (MIRABEL) INTERNATIONAL AIRPORT, MAIN AIR TERMINAL OPERATIONAL CONCEPT DEVELOPMENT \$150,000,000

ABBOTSFORD AIRPORT LONG TERM AIR TERMINAL DEVELOPMENT STUDIES 2007-2008

BOUNDARY BAY AIR TERMINAL PLANNING

SIOUX LOOKOUT AIR TERMINAL LONG TERM PLANNING

REGINA AIR TERMINAL CONCEPTUAL REPLANNING & EXPANSION OF EXISTING TERMINAL

GANDER INTERNATIONAL AIR TERMINAL, CONCEPTUAL REPLANNING OF EXISTING TERMINAL

YELLOWKNIFE AIR TERMINAL, CONCEPTUAL REPLANNING & EXPANSION OF EXISTING TERMINAL

WINNIPEG AIR TERMINAL, CONCEPTUAL REPLANNING & EXPANSION OF EXISTING TERMINAL

KAMLOOPS AIRPORT MAIN AIR TERMINAL REPLANNING

DAWSON CREEK AIRPORT B.C. MAIN AIR TERMINAL LONG TERM MASTER PLAN,

MIRABEL INTERNATIONAL AIRPORT, MAIN AIR TERMINAL PARKING STRUCTURE,

AIR TERMINAL PROJECTS

VANCOUVER INTERNATIONAL AIR TERMINAL SCHEMATIC DESIGN.

VICTORIA AIR TERMINAL EXPANSION & UPGRADE SCHEMATIC DESIGN.

ABBOTSFORD AIR TERMINAL EXPANSION & UPGRADE \$5,000,000

PRINCE RUPERT AIR TERMINAL EXPANSION AND UPGRADE \$8,000,000

SMITHERS AIR TERMINAL EXPANSION AND UPGRADE \$8,000,000

NEW AIR TERMINAL BOUNDARY BAY AIRPORT \$5,000,000 2009

ABBOTSFORD AIR TERMINAL FULL INTERIOR MAKEOVER \$2,000,000

ABBOTSFORD AIRPORT CURBSIDE RENOVATIONS

ABBOTSFORD AIRPORT FAÇADE UPGRADE PROJECT

ABBOTSFORD AIR TERMINAL EDS EXPANSION 2004

ABBOTSFORD AIR TERMINAL LOADING BRIDGE AND PASSENGER WALKWAY INSTALLATIONS 2005

ABBOTSFORD AIR TERMINAL CBSA FACILITY EXPANSION, 2005

ABBOTSFORD AIR TERMINAL ADMINISTRATION OFFICES EXPANSION 2007

ABBOTSFORD AIR TERMINAL MAJOR WASHROOM EXPANSION & UPGRADE 2009

ABBOTSFORD AIR TERMINAL NEW CHECK IN COUNTER INSTALLATION & UPGRADE

KAMLOOPS AIR TERMINAL EDS INSTALLATION PROJECT INCLUDING CHECK IN COUNTERS, PBS, BAG MAKEUP AND HOLDROOM

UPGRADES 2005 \$2,000,000

TERRACE AIR TERMINAL EDS INSTALLATION PROJECT INCLUDING NEW HOLDROOMS,

WASHROOM, PBS, AND DEPARTURE AREA MODIFICATION. \$2,000,000

YVR GATES 53, 54, 55 INTERNATIONAL HOLDROOM RECONFIGURATIONS

YVR GATE C35 HOLDROOM & EXITING RECONFIGURATION.

YVR GATE C33 HOLDROOM & EXITING RECONFIGURATION.

YVR GATES B18,B19, B 20, B21, B22, B 23 HOLDROOM RECONFIGURATION

YVR GATE A1- A3 HOLDROOM RECONFIGURATION

YVR DOMESTIC TERMINAL LEVEL 2 AIRSIDE WASHROOM RENEWALS 2001

YVR, COMMON USER TERMINAL INFRASTRUCTURE PROJECT 2001

MAIN AIR TERMINAL, YVR, GATE A7-A9, HOLDROOM, PASSENGER MOVEMENT, AIRSIDE PLANNING & LOADING BRIDGE RECONFIGURATIONS. Hold room, counter operations, escalators and elevator structure to serve regional airline passenger operations for Air B.C.

MAIN AIR TERMINAL, YVR, GATE C 38, PASSENGER OPERATIONS RECONFIGURATIONS, 7 gate airside reconfigurations, New fixed passenger links, escalator and elevator structure, counter operations, and hold room modifications to serve regional airline operations for Canadian Airline Operations.

MAIN AIR TERMINAL INTERNATIONAL ARRIVALS Operational concept and preliminary design for International arrivals, customs and immigration renovations Vancouver International Airport -Level One.

YVR MAIN AIR TERMINAL, LEVEL FOUR, Planning studies and feasibility research for office expansion.

MAIN AIR TERMINAL TWO BAY RETAIL EXPANSION, Planning and feasibility studies for major air terminal expansion. Vancouver International Airport, \$19,000,000

MAIN AIR TERMINAL INTERNATIONAL TUNNEL, Operational concept and feasibility studies for international tunnel renovation and upgrade. Vancouver International Airport Level One.

MAIN AIR TERMINAL GATE 32 AIRCRAFT GATE RECONFIGURATION Full commuter airline aircraft gating and passenger operation. Vancouver International Airport.

MAIN AIR TERMINAL TRANS- BORDER CONCOURSE RECONFIGURATION CONCEPT Operational concept and preliminary design at Vancouver International Airport

MAIN AIR TERMINAL: YVRAA EXECUTIVE OFFICES INSTALLATION, New executive offices and executive boardrooms at Level four. Vancouver International Airport, 1993

MAIN AIR TERMINAL YVRAA: NEW TERMINAL SERVICES OFFICE COMPLEX. Space planning, feasibility and costing for YVR terminal services at Level 4,

MAIN AIR TERMINAL YVRAA, GATE 21 HOLDROOM MODIFICATIONS AND NEW LOADING BRIDGE INSTALLATION.

MAIN AIR TERMINAL, YVRAA, GATE 22 HOLDROOM MODIFICATIONS,

MAIN AIR TERMINAL, YVRAA, GATE 29, WASHROOM INSTALLATIONS,

MAIN AIR TERMINAL, YVRAA, AIRPORT OPERATIONS CENTRE AND CONSOLE. Detail design of airport operations centre, including operations centre console.

Airport Security

HBS SYSTEM IMPLEMENTATION, YXX

HBS SYSTEM IMPLEMENTATION KAMLOOPS

HBS SYSTEM IMPLEMENTATION TERRACE

YVR DOMESTIC PASSENGER SECURITY SCREENING EXPANSION PROJECT

YVR TRANSBORDER PASSENGER SECURITY SCREENING EXPANSION PROJECT

MAIN TERMINAL ACCESS CONTROL SYSTEM ANALYSIS Vancouver International Airport, \$350,000 [3]

CANADIAN AIRLINES YVR OPS CENTRE FULL ELECTRONIC PERIMETER ACCESS CONTROL SYSTEM, 1999

EXPANSION OF YVR AIRSIDE SECURITY SCREENING

GROUND SIDE AND AIRSIDE TRANSPORTATION SYSTEMS AIRSIDE PLANNING YVR, C38, 9 COMMUTER GATES, AIRCRAFT MOVEMENT LAYOUT, PLANNING, LEAD IN LINES, CLEARANCE LINES, EQUIPMENT LINES,

YVR, GATE A9, COMMUTER GATES, AIRCRAFT MOVEMENT LAYOUT, PLANNING, LEAD IN LINES, CLEARANCE LINES, EQUIPMENT LINES, VICTORIA INTERNATIONAL AIRPORT, LONG TERM, AIRSIDE GATING MASTERPLANNING 2000. VICTORIA INTERNATIONAL AIRPORT, AIRSIDE MOVEMENT, GATING AND AIRCRAFT LAYOUT PLANNING.

CARGO APRON AIRCRAFT MOVEMENT PLANNING, IAT Calgary International Airport, 1988.

GROUND SIDE TRAFFIC SURVEYS

TERMINAL GROUND SIDE TRAFFIC SURVEY, Vancouver International Airport

BUS OPERATIONS SURVEY AND INVENTORY, TRANSPORT CANADA, VANCOUVER INTERNATIONAL AIRPORT GROUND SIDE TRAFFIC ANALYSIS

MAIN TERMINAL GROUND SIDE OPERATIONS, Vancouver International Airport

SOUTH TERMINAL TRAFFIC/PARKING STUDY, Vancouver International Airport,

MAIN PUBLIC PARKING LOT ANALYSIS, Vancouver International Airport

CURB SYSTEM OPERATIONAL MODS, Vancouver International Airport 1984 TRAFFIC SYSTEMS AND PLANNING

ROADS, CURBS PARKING SYSTEMS, CONCEPT PLANNING, NEW INTERNATIONAL AIR TERMINAL, Vancouver International Airport

ROADS, CURBS, PARKING SYSTEMS, Mirabel International Airport [1]

PARKING STRUCTURE TRAFFIC PLANNING, TERMINAL BUILDING, Mirabel International Airport [1]

CHARTER BUS TERMINAL PLANNING, Vancouver International Airport

TERMINAL GROUND / AIRSIDE SYSTEM, INNOTECH AVIATION, Vancouver International Airport

TERMINAL GROUND / AIRSIDE SYSTEM, ESSO AVIATION, Vancouver International Airport

VARIOUS TAXIWAY CONNECTORS, AIRCRAFT RAMPS, Vancouver International Airport

SECOND RUNWAY OPERATIONS SIMULATION MODEL, Vancouver International Airport

Airline Facilities

AIR TERMINAL INSTALLATIONS

YVR LEVEL ONE MAJOR STAFF FACILITY COMPLEX, AIR CANADA,

MAIN AIR TERMINAL LEVEL FOUR OFFICE EXPANSION, for Air Canada Passenger Service Operations at Vancouver International Airport [5] \$2,000,000

MAIN AIR TERMINAL AIR CANADA OFFICE MODS & ASBESTOS REMOVAL, Vancouver International Airport, Level 4.

MAIN AIR TERMINAL, YVR, AIR CANADA, GATES 2, 10, 12, RECONFIGURATIONS. Aircraft gating reconfigurations including apron drive loading bridges, hold room modifications, infrastructure. AIR CANADA: - NEW INTERNATIONAL TERMINAL YVR, All new passenger and ramp service installations for Air Canada.

CANADIAN AIRLINES: - NEW INTERNATIONAL TERMINAL YVR, All new passenger and ramp service installations for Canadian Airlines.

UNITED AIRLINES: - NEW INTERNATIONAL TERMINAL YVR, All new passenger and ramp service installations for United Airlines.

DELTA AIRLINES: - NEW INTERNATIONAL TERMINAL YVR, All new passenger and ramp service installations for Delta Airlines.

AMERICAN AIRLINES: - NEW INTERNATIONAL TERMINAL YVR, All new passenger and ramp service installations for American Airlines.

LUFTHANSA AIRLINES: - NEW INTERNATIONAL TERMINAL YVR, All new passenger and ramp service installations for Lufthansa Airlines.

ALASKA AIRLINES: NEW INTERNATIONAL TERMINAL YVR, All new passenger and ramp service installations for Alaska Airlines 1996.

AMERICA WEST AIRLINES NEW INTERNATIONAL TERMINAL YVR, All new passenger and ramp service installations for America West Airlines.

HORIZON AIRLINES: NEW INTERNATIONAL TERMINAL YVR, All new passenger and ramp service installations for Horizon Airline 1996.

ALL NIPPON AIRLINES: - NEW INTERNATIONAL TERMINAL YVR, All new passenger and ramp service installations for All Nippon Airlines.

HUDSON GENERAL AVIATION SERVICES: - NEW INTERNATIONAL TERMINAL YVR, All new passenger and ramp service installations for Hudson General.

CANADIAN AIRLINES: DTB RENOVATIONS YVR: full re-planning and reconstruction of all passenger service operations on Level 4, in the Domestic Terminal YVR.

CANADIAN AIRLINES: DTB RENOVATIONS YVR: full re-planning and reconstruction of all line maintenance and cabin service operations on Level 2, in the Domestic Terminal YVR.

CANADIAN AIRLINES: DTB RENOVATIONS YVR: full re-planning and reconstruction of all line "in-flight" operations on level 2, in the Domestic Terminal YVR.

NEW TICKET COUNTERS & ADMIN SUPPORT, AIR CANADA, Full passenger service operation reconfiguration, including automated baggage conveyor systems, check-in counters, and passenger agent facilities. Terminal Building, Vancouver International Airport, \$1,300,000.

NEW AUTOMATED OUTBOUND BAGGAGE SORTATION SYSTEM AIR CANADA, All Infrastructure, planning, and renovations. Terminal Building, Vancouver International Airport. \$2,300,000.

FIRST CLASS PASSENGER LOUNGE - AIR FRANCE, Mirabel International Airport, \$190,000.

FIRST CLASS PASSENGER LOUNGE renovation Pacific Lodge (CARA) YVR

NEW FIRST-CLASS LOUNGE: - Canadian Airlines, YVR: full service international lounge gate 27,

CUSTOMER CARE LOUNGES (2) AIR CANADA, YVR

TICKET COUNTER INSTALLATIONS, AIR FRANCE, Mirabel International Airport, \$35,000.

TICKET COUNTER MODIFICATIONS - JAPAN AIRLINES DTB, YVR.

TICKET COUNTER MODIFICATIONS, CANADIAN AIRLINES, Vancouver International Airport.

AIRLINE FLIGHT OPERATIONS INSTALLATIONS - AIR FRANCE, Mirabel International Airport

STATION MANAGERS OFFICES - AIR FRANCE. Mirabel International Airport

STATION MANAGERS OFFICES - LUFTHANSA, Vancouver International Airport

FLIGHT CREW READY FACILITIES, Canadian Airlines, YVR.

FLIGHT & MAINTENANCE CREW READY, FACILITIES - AIR B.C., YVR

FLIGHT CREW READY FACILITIES - AIR FRANCE, Mirabel International Airport

FLIGHT OPERATIONS GROUP - CANADIAN AIRLINES, Vancouver Operations Centre

FLIGHT OPERATIONS GROUP - AIR B.C. Vancouver International Airport [6]

US CUSTOMS PRECLEARANCE MODIFICATIONS, Main Terminal, Vancouver International Airport.

FLIGHT OPERATIONS GATE 20 & 29, CANADIAN AIRLINES, Main Terminal, Vancouver International Airport.

STOC CENTRE - AIR CANADA - Main Terminal, Level Two, Full new configuration. Vancouver International Airport.

STOC CENTRE - CANADIAN AIRLINES Main Terminal, Level Two, Full new reconfiguration. Vancouver International Airport.

APRON DRIVE LOADING BRIDGE INSTALLATIONS - Air Canada, all infrastructure, and hold room modifications. Vancouver International Airport,

APRON DRIVE LOADING BRIDGE INSTALLATIONS - Canadian Airlines, all infrastructure, and hold room modifications Vancouver International Airport.

APRON DRIVE LOADING BRIDGE INST ALLATIONS - YVRAA, GATE 22.

CABIN SERVICES FACILITIES Air Canada, Vancouver International Airport.

FIBRE OPTIC TELECOM INFRASTRUCTURE PROJECT, Air Canada, Vancouver International Airport.

AIR CANADA: "Mini Sort" baggage transfer and sortation system planning YVR .

CANADIAN AIRLINES PIER C REPLANNING \$3,000,000 YVR DTB

CANADIAN AIRLINES AIRPORT ADMIN REPLANNING YVR DTB \$650,000.

CANADIAN AIRLINES IN FLIGHT OPERATIONS \$350,000 YVR DTB.

AIR CANADA CABIN SERVICES REPLANNING YVR DTB A1-A5 \$350,000.

Airline Aircraft Maintenance

JET ENGINE OVERHAUL FACILITY, MTU CANADA YVR, \$1,700,000,

AIRCRAFT MAINTENANCE, HANGAR EFFICIENCY RENOVATIONS, CANADIAN AIRLINES - Vancouver Operations Centre, \$400,000

FIXED 767 AIRCRAFT MAINTENANCE DOCK STRUCTURE, CANADIAN AIRLINES - Full design for highly automated aircraft maintenance operations base. Vancouver International Airport, , \$2,000,000

ENGINE SHOP MEZZANINE STRUCTURE, CANADIAN AIRLINES - Full design for major renovation within the Vancouver Operations Centre \$500,000

INTERNATIONAL WASTE & CHEMICAL RECYCLING FACILITY, CANADIAN AIRLINES - Full design for technically advanced reprocessing facility. Vancouver International Airport, \$3,500,000

Airline Administration

PACIFIC REGION OFFICE SPACE UTILIZATION MASTER PLANNING, CP-AIR - 2500 PERSONS, Full scale master planning study for Pacific Region space requirements and space use. Operations Centre, Vancouver International Airport

CP-AIR - SPACE PLANNING - ACCOUNTING, Operations Centre, Vancouver International Airport, 550 Persons.

CP-AIR - SYSTEMS FURNITURE SPACE PLANNING - COMPUTER SERVICES DEPT, Operations Centre, Vancouver International Airport, 250 Persons.

GEMINI - SPACE PLANNING & PROJECT MANAGEMENT, CANADIAN AIRLINES / AIR CANADA, Lansdowne Plaza - Richmond B.C., 450 Persons.

TRANS PACIFIC TOURS - NEW OFFICE SPACE PLANNING, Vancouver, 215 persons.

TREASURE TOURS - NEW OFFICE SPACE PLANNING & PROJECT MANAGEMENT, Vancouver, 200 persons.

CANADIAN AIRLINES - INFO SYSTEMS, Space planning and 88 new systems furniture workstations.

CANADIAN AIRLINES - LANS DOWNE PLAZA, Space planning and 47 systems furniture work stations.

CANADIAN AIRLINES - STAFF RECORDS DEPARTMENT, Space planning and 42 new systems furniture workstations.

CANADIAN AIRLINES - PAYLOAD GROUP Space planning for 125 Persons

CANADIAN AIRLINES - TRAINING DEPARTMENT Space planning for 130 persons

CANADIAN AIRLINES - FLIGHT OPERATIONS GROUP, Space planning for 150 persons

CANADIAN AIRLINES - TECHNICAL RECORDS GROUP, Space planning for 35 persons,

CANADIAN AIRLINES - MAINTENANCE ENGINEERING GROUP Space planning for 400 persons,

CANADIAN AIRLINES - WINDOW RETROFIT PROGRAM, Operations Centre, Vancouver International Airport \$100,000

CANADIAN AIRLINES - FIRE EXIT UPGRADES, Operations Centre, Vancouver International Airport, \$75,000

CANADIAN AIRLINES - FIRE EXIT GRAPHIC PROGRAM, Operations Centre, Vancouver International Airport, 1989.

NEW OFFICE BUILDING FEASIBILITY STUDIES - CANADIAN AIRLINES, Vancouver International Airport

COMPUTER CENTRE RELOCATION SPACE, PLANNING STUDY - Canadian Airlines, Vancouver International Airport

NEW HEAD OFFICE AIR B.C. Vancouver International Airport.

NEW AIRLINE OPERATIONS CENTRE BUILDING, AIR B.C. Vancouver International Airport, \$9,000,000 [6]. FLIGHT KITCHENS

CP HOTELS NEW FLIGHT KITCHEN, Mirabel International Airport, \$4,000,000

CP HOTELS - FLIGHT KITCHEN MODIFICATIONS, Vancouver International Airport, [2]

CP HOTELS - FLIGHT KITCHEN MODIFICATIONS, Dorval International Airport.

LSG SKYCHEFS (LUFTHANSA) YVR KITCHEN REPLANNING & BUILDING EXPANSION STUDY \$6,000,000

LSG SKYCHEFS, PRODUCT DEVELOPMENT DIVISION, YVR \$250,000 PRIVATE AIR TERMINALS (FBO'S)

AIR TERMINAL BUILDING INNOTECH AVIATION, Vancouver International Airport, \$11,000,000 (Now Millionaire)

AIR TERMINAL BUILDING ESSO AVIATION, Vancouver International Airport \$2,000,000.

AIR TERMINAL BUILDING EXECUTIVE AIRCRAFT LTD (PENTA)Vancouver International Airport, \$1,200,000

AIR TERMINAL BUILDING MODIFICATIONS - Innotech, Ottawa Airport, \$150,000

AIR TERMINAL BUILDING AIR PROFESSIONALS LTD, Abbotsford Airport \$5,000,000 [3]

Airport Support Facilities

2 BAY AIRPORT FIRE HALL - ABBOTSFORD INTERNATIONAL AIRPORT \$1,000,000 .

AIRPORT FIREHALL, VANCOUVER INTERNATIONAL AIRPORT AUTHORITY, 4 bay fire hall YVR, \$2,000,000, [3]

AIRPORT FIREHALL - TRANSPORT CANADA, Vancouver International Airport, expansion and noise analysis, \$300,000.

AVIS CAR RENTAL: New Avis airport administration, operations and vehicle maintenance / turnaround facility, \$1m

VANCOUVER AIRPORT FUEL FACILITIES CONSORTIUM: New administration, operations centre and vehicle maintenance facility building at YVR \$1.5m. (DESIGN-BUILD)

AIRCRAFT DE-ICING STORAGE FACILITY, AIR CANADA & CANADIAN AIRLINES

HUDSON GENERAL, AIRPORT SERVICE BUILDING YVR \$2,000,000

AVIS CAR RENTAL FACILITY YVR: RENOVATION AND MODIFICATION TO VEHICLE TURNAROUND FACILITY, INCL SERVICE ISLAND AND SUPPORT FACILITIES, YVR.

INTERNATIONAL WASTE REPROCESSING FACILITY, CANADIAN AIRLINES, YVR, \$1,500,000

SOUTHSIDE GUARDHOUSE, Transport Canada [7], Vancouver International Airport.

EQUIPMENT STORAGE BUILDING, CANADIAN AIRLINES, YVR \$500,000

AIRFIELD MAINTENANCE COMPLEX EXPANSION STUDY, Transport Canada, Vancouver International Airport [6]

RAMP CONTROL TOWER, Transport Canada [6], Mirabel International Airport,

AREA CONTROL CENTRE BUILDING (ATC), Major computer room renovations, Vancouver International Airport,

AIRPORT PLANNING DEPT. OFFICE RENOVATIONS, Vancouver International Airport,

ITB PROJECT TEAM TRAILER VILLAGE SETUP, Vancouver International Airport,

Air Cargo Facilities

AIR CARGO FACILITY FORECASTING & PROGRAMMING

CARGO FACILITY OPERATIONS RESEARCH, Marathon Aviation, Mirabel International Airport.

AIR CARGO BUILDING CONCEPT, International Aviation Terminals, Calgary International Airport [6]

AIR CARGO BUILDING CONCEPT, Southside Management, Vancouver International Airport [3] AIR CARGO BUILDINGS

AIR CARGO FACILITY - MARATHON AVIATION TERMINALS / AIR CANADA, Mirabel International Airport, \$15,000,000

AIR CARGO BUILDING MODIFICATIONS, AIR CANADA, YVR, \$1,000,000

AIR CARGO BUILDING NO 2, Marathon Aviation Terminals, Dorval Airport, \$1,000,000

AIR CARGO OFFICES - AIR CANADA, Mirabel International Airport

AIR CARGO APRON CONTROL TOWER, TRANSPORT CANADA, MIRABEL INTERNATIONAL AIRPORT [2]

CUSTOMS BROKERS & FREIGHT, FORWARDER INSTALLATIONS, Mirabel International Airport

AIR CARGO BROKERAGE FACILITY, MEGA INTERNATIONAL, Vancouver International Airport. AIR CARGO AUTOMATION

AIR CARGO OFFICE RENOVATIONS, - CANADIAN AIRLINES, Vancouver International Airport.

CANADA CUSTOMS AIR CARGO FACILITY, Public Works Canada, Mirabel International Airport, \$1,000,000.

AIR CARGO OFFICE INSTALLATIONS -KLM / British Airways / Air France Lufthansa / Sabena / Iberia / SAS, Mirabel International Airport.

AIR CARGO OFFICE RENOVATIONS, -CANADIAN AIRLINES, Vancouver International Airport, 1986

AIR CARGO SUPPORT

CARGO HANDLING VEHICLE BATTERY RECHARGE FACILITY, YVR AIR CANADA \$1,500,000.

AIRMAIL HANDLING FACILITY, PUBLIC WORKS CANADA, Mirabel International Airport, \$100,000.

MECHANIZED CARGO CONTAINER HANDLING SYSTEM FOR 747, Air France, Mirabel International Airport

MECHANIZED CARGO CONTAINER, HANDLING SYSTEM, AIR CANADA, Mirabel International Airport, \$1,000,000 CONCEPT DESIGN

MECHANIZED CARGO CONTAINER SYSTEM, KLM AIRLINES, Mirabel International Airport, \$300,000

Aircraft Hangars

ALPHA AVIATION HANGAR, BOUNDARY BAY AIRPORT \$4,000,000

MAXCRAFT AVIONICS HANGAR AND OPERATIONS CENTER \$2,500,000 PITT MEADOWS AIRPORT

AIRCRAFT HANGAR FIXED BASE OPERATION - INNOTECH AVIATION, 185,000 sf aircraft hangar, Vancouver International Airport, - \$9,000,000

COAST GUARD HANGAR, YVR, PW GSC, 16,000 SF, \$2,000,000. (DESIGN-BUILD)

AIRCRAFT HANGAR - ESSO AVITAT PHASE 2, 25,000 sf aircraft hangar, Vancouver International Airport \$2,000,000 (DESIGN-BUILD).

AIRCRAFT HANGAR FIXED BASE OPERATION - ESSO AVITAT- PHASE 1, 50,000 sf hangar, office and passenger terminal complex. Vancouver International Airport, \$2,500,000

CANADIAN AIRLINES YVR OPERATIONS CENTRE BUILDING MISC RENOVATION PROJECTS

AIRCRAFT HANGAR FEASIBILITY PLAN NING, PENTA AVIATION, YVR.

NEW AIRLINE HANGAR & OPERATIONS CENTRE, AIR B.C., Vancouver International Airport, 1989, \$9,000,000 [6]

AIRCRAFT HANGAR FIXED BASE OPERATION - AIR PROFESSIONALS, ABBOTSFORD International Airport, - \$5,000,000 [3]

HANGAR, MAINTENANCE, ADMIN COMPLEX, 30,000 sf complex for B.C. Government Air Services Branch, \$4,000,000, Victoria International Airport. CONCEPT AND PROGRAMMING STUDIES.

AIRCRAFT HANGAR CONVERSION - BENDIX CORPORATION, Vancouver International Airport, \$500,000

AIRCRAFT HANGAR REPLACEMENT COST ANALYSIS - Air B.C., Terrace B.C.

AIRCRAFT HANGAR DOOR MODIFICATIONS, 747 HANGARS, CANADIAN AIRLINES, \$100,000 [3]

HANGAR FIRE EXIT DIRECTORY, CANADIAN AIRLINES, Vancouver Operations Centre

HARRISON HANGAR CONVERSION STUDY, AIR B.C., Vancouver International Airport, \$200,000

HANGAR DOOR REPLACEMENT, COASTGUARD HANGAR, Vancouver International Airport.

AIRCRAFT MAINTENANCE FACILITY, INNOTECH AVIATION, 16,000 sf Vancouver International Airport, \$500,000.

HELICOPTER TURBINE OVERHAUL FACILITY, CGT, Vancouver International Airport,

AIRCRAFT COMPLETION CENTRE, RENOVATIONS - INNOTECH AVIATION, Dorval Airport, \$125,000

HANGAR CONCEPTUAL DESIGN, MARATHON AVIATION TERMINALS, 747 hangar planning. Toronto International Airport, [2,6]