

New

Ministry

Transportation and Economic Corridors

Describe: Basic Job Details

Position

Position ID

Position Name (30 characters)

Rail Planning Specialist

Requested Class

Engineering & Related Level 4

Job Focus

Operations/Program

Supervisory Level

01 - Yes Supervisory

Agency (ministry) code

Cost Centre

Program Code: (enter if required)

Employee

Employee Name (or Vacant)

Organizational Structure

Division, Branch/Unit

Current organizational chart attached?

Supervisor's Position ID

Supervisor's Position Name (30 characters)

Supervisor's Current Class

Design: Identify Job Duties and Value

Job Purpose and Organizational Context

Why the job exists:

Transportation and Economic Corridors (TEC) is tasked with exploring cost-sharing arrangements with the private sector and/or municipalities that support economic investment in Alberta's transportation network, including public transit, heavy rail and bridge infrastructure that better connects the Calgary and Edmonton airports to their downtowns, regional communities to Calgary and Edmonton, and Calgary to the province's Rocky Mountains parks system.

Reporting to the Director, Railway, this position provides urban planning and related transportation planning advice for the feasibility assessments and evaluation for passenger rail development in Alberta as well as helping to lead the collaboration with various government and private agencies regarding passenger railway development and planned development adjacent to the passenger railway stations. The role will lead efforts between the Province and municipalities/airports to develop working relationships that ensure efficient connectivity to existing transit systems and airports, and coordinate planning in order to promote transit oriented development and other economic development.

The role will provide transportation planning advice regarding proposed railway projects under review by TEC and will have a direct involvement in the development plan for billions of dollars of investment in passenger rail.

Responsibilities

Job outcomes (4-6 core results), and for each outcome, 4-6 corresponding activities:

- Assist the Director, Railway in the planning of passenger rail services under review by TEC, to ensure the most efficient incorporation of the passenger rail mode of travel within the overall framework of multi-modal transportation in the Province, including the interaction of station locations and integration with existing municipal transit systems (e.g., light rail transit or bus rapid transit).
 - Identify the needs of stakeholders, both internal and external, to plan future rail corridors and the interactions with provincial highways and other modes of transportation.
 - Provide technical advice (land use planning, transportation planning related to parking, bus transfers, and transit-oriented development) to the Director and Executive Director regarding proposals to provide passenger rail services projects.
- Development of technical and procedural standards, guidelines, and policies to ensure the safe and efficient interaction of railways with the provincial highway system and railway projects under review by the Transportation and Economic Corridors (TEC).
 - Develop guidelines to position Government of Alberta (GOA) to create agreements with municipalities for transit-oriented development and multi-modal stations.
 - Work with other regulatory agencies such as Transport Canada, the Transportation Association of Canada, and other provinces in establishing consistent standards, guidelines, and policies regarding the interaction of railways with provincial highways.
- Provide technical expertise during the planning and delivery of the passenger rail master plan.
 - Research, create, and further develop department guidelines to work with a team delivering on the master plan and passenger rail projects.
 - Use the provincial standards and guidelines to provide technical advice to teams in the transportation planning, station location, and transit-oriented development during development of the passenger rail master plan and review of passenger rail unsolicited proposals.
 - Research create and further develop the provincial standards and guidelines to provide technical advice to teams in the planning and design rail crossings, passenger rail stations, roadway/rail/passenger interactions to ensure safety for all modes of transportation with province.
 - Provide technical planning advice for agreements with municipalities, railway agencies, for Class 1 rail/pedestrian/station interactions.
 - Assist in conflict resolution with railway agencies to resolve agreement disputes at the working level.

Problem Solving

Typical problems solved:

As the lead for integrating passenger rail into urban environments, and connection to airports and existing light-rail transit systems in Calgary and Edmonton, this role will need to resolve conflicting needs between municipal and airport needs, federal regulatory requirements, and provincial needs as part of the Passenger Rail Master Plan Development.

An example of conflict resolution that was completed by the department was the use of light rail transit crossings of interchange ramps. This required detailed analysis and identification of stakeholders issues to provide an outcome acceptable to the efficient safe and efficient movement of vehicular traffic on the interchange ramps and rail car transit across the ramps.

Types of guidance available for problem solving:

The role will be able to draw on other technical and policy expertise from other groups or individuals within the Technical Standards Branch, Capital Planning, Grants and Engineering Services, Traffic Safety Services and Strategic Initiatives Divisions in TEC.

Transport Canada and the Canadian Transportation Agency (TAC) ave various tools and roles that will be available to assist in problem solving.

Examples of regulations and guidelines that will be used as part of this role and play a part in solving problems include:

- *Traffic Safety Act* and its Regulations
- *Railway Safety Acts* (both Provincial and Federal)
- Manual of Uniform Traffic Control Devices for Canada
- Manual of Geometric Design Standards for Canadian Roads
- Alberta Pavement Marking Guide
- Alberta Transportation Highway Geometric Design Guide
- Alberta Transportation Traffic Control Standards
- Alberta Transportation Railway Grade Separation Procedure Manual
- Federal At/Grade railway Crossing Guidelines
- Alberta Highway Signing Manual
- Alberta Traffic Accommodation in Work Zones Manual
- Alberta Transportation and TAC Sign Patterns Manuals
- Road Safety Audit Guide & In-Service Road Safety Operational Review guide

Direct or indirect impacts of decisions:

Advice and decisions made by the specialist role will affect:

- the safety and efficiency of pedestrian and passengers,
- the development of passenger rail, land use and transit oriented development in the province.
- the national and international economic corridors,
- and budget considerations both at the provincial level and a level of influence at the federal level.

Key Relationships

Major stakeholders and purpose of interactions:

- Extensive dealing with various types of organizations such as Canadian Transportation Agency, Transport Canada, Transportation Association of Canada, Transport Canada, and various rail and road authorities across the province. Implementation of traffic engineering standards requires the candidate to convince and influence them on the benefit of change based on cost/benefit assessments and/or outcome.
- Experience working with municipalities and private developers, owners of railways (light and/or heavy rail) and the development (planning, design, construction) of passenger rail projects.

Required Education, Experience and Technical Competencies

Education Level	Focus/Major	2nd Major/Minor if applicable	Designation
Bachelor's Degree (4 year)	Engineering		

If other, specify:

Job-specific experience, technical competencies, certification and/or training:

- A university degree in engineering or planning or equivalent with 8+ years in experience in the operations, construction, and planning of railways or other transportation networks, crossings and new railway (light and/or heavy rail) design and/or construction projects. 4 + years experience with complex heavy rail and light rail transit

projects is preferred.

- Registered Professional Engineer (P.Eng.) in Alberta (APEGA), or Registered Professional Planner (RPP) in Alberta (APPI), or eligible to register through a reciprocal agreement for either designation.
- Experience in collaborating with and leading multi-disciplinary teams of professionals within the department and external to the department, or on passenger railway projects or other transportation network projects.
- Excellent oral and written communication skills including experience in making presentations to executive management, elected officials, and the public.
- Exceptional personal interactive skills; the capability to work well with people from many different disciplines with varying degrees of technical experience; competence in clear, concise and tactful communication with senior management, clients, peers and staff.
- Strategic, conceptual analytical thinking and decision-making skills.
- Adaptability and flexibility including the ability to manage deadline pressure, ambiguity and change.
- Negotiating skills within a context of political sensitivity and conflicting interests.

Behavioral Competencies

Pick 4-5 representative behavioral competencies and their level.

Competency	Level					Level Definition	Examples of how this level best represents the job
	A	B	C	D	E		
Systems Thinking	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<p>Takes a long-term view towards organization's objectives and how to achieve them:</p> <ul style="list-style-type: none"> • Takes holistic long-term view of challenges and opportunities • Anticipates outcomes and potential impacts, seeks stakeholder perspectives • Works towards actions and plans aligned with APS values • Works with others to identify areas for collaboration 	<p>This position will need to view work completed with railways in a holistic and long-term view as the outcomes and anticipated outcomes will affect road and rail users potentially for decades after decisions are made.</p>
Creative Problem Solving	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<p>Works in open teams to share ideas and process issues:</p> <ul style="list-style-type: none"> • Uses wide range of techniques to break down problems • Allows others to think creatively and voice ideas • Brings the right people together to solve issues • Identifies new solutions for the organization 	<p>The interaction between municipal transit systems (LRT and bus), freight railways and roadways/ highway system can be complex due to various stakeholder needs and requires creative problem solving to achieve positive outcomes.</p>
Agility	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<p>Identifies and manages required change and the associated risks:</p>	<p>This position will need to be able to identify alternatives and be able</p>

		<ul style="list-style-type: none"> • Identifies alternative approaches and supports others to do the same • Proactively explains impact of changes • Anticipates and mitigates emotions of others • Anticipates obstacles and stays focused on goals • Makes decisions and takes action in uncertain situations and creates a backup plan 	to promote the alternatives as passenger rail services are assessed and the interaction of the rail system with municipal transit, modes of travel and land use development as Alberta is evolving to include more complex light rail transit and heavy rail interactions.
Drive for Results	<input type="radio"/> <input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/>	<p>Takes and delegates responsibility for outcomes:</p> <ul style="list-style-type: none"> • Uses variety of resources to monitor own performance standards • Acknowledges even indirect responsibility • Commits to what is good for Albertans even if not immediately accepted • Reaches goals consistent with APS direction 	This position will be the driver in navigating the complex regulatory and engineering environment and solving the associated challenges to ensure timely delivery of safe and efficient passenger services, user experience and land use.
Develop Networks	<input type="radio"/> <input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/>	<p>Leverages relationships to build input and perspective:</p> <ul style="list-style-type: none"> • Looks broadly to engage stakeholders • Open to perspectives towards long-term goals • Actively seeks input into change initiatives • Maintains stakeholder relationships 	This position will need to build relationships with municipal officials, railway operators, federal regulatory agencies, other provincial counterparts, and other department staff to achieve the goals of the position.
Build Collaborative Environments	<input type="radio"/> <input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/>	<p>Collaborates across functional areas and proactively addresses conflict:</p> <ul style="list-style-type: none"> • Encourages broad thinking on projects, and works to eliminate barriers to progress • Facilitates communication and collaboration • Anticipates and reduces conflict at the outset • Credits others and gets talent recognized 	This position will need to build relationships with municipal officials, railway operators, federal regulatory agencies, other provincial counterparts, and other department staff to resolve conflict, share resources, and achieve positive outcomes.

