

Keeping Calgary Moving

Transportation Infrastructure 2005 & Beyond



THE CITY OF
CALGARY
Transportation Infrastructure

“My country was never so rich that it could afford bad roads.”

William the Conqueror, 1066



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Transportation Infrastructure

“Mobility is the most pressing issue for Calgarians today.”

Mayor Dave Bronconnier, 2005

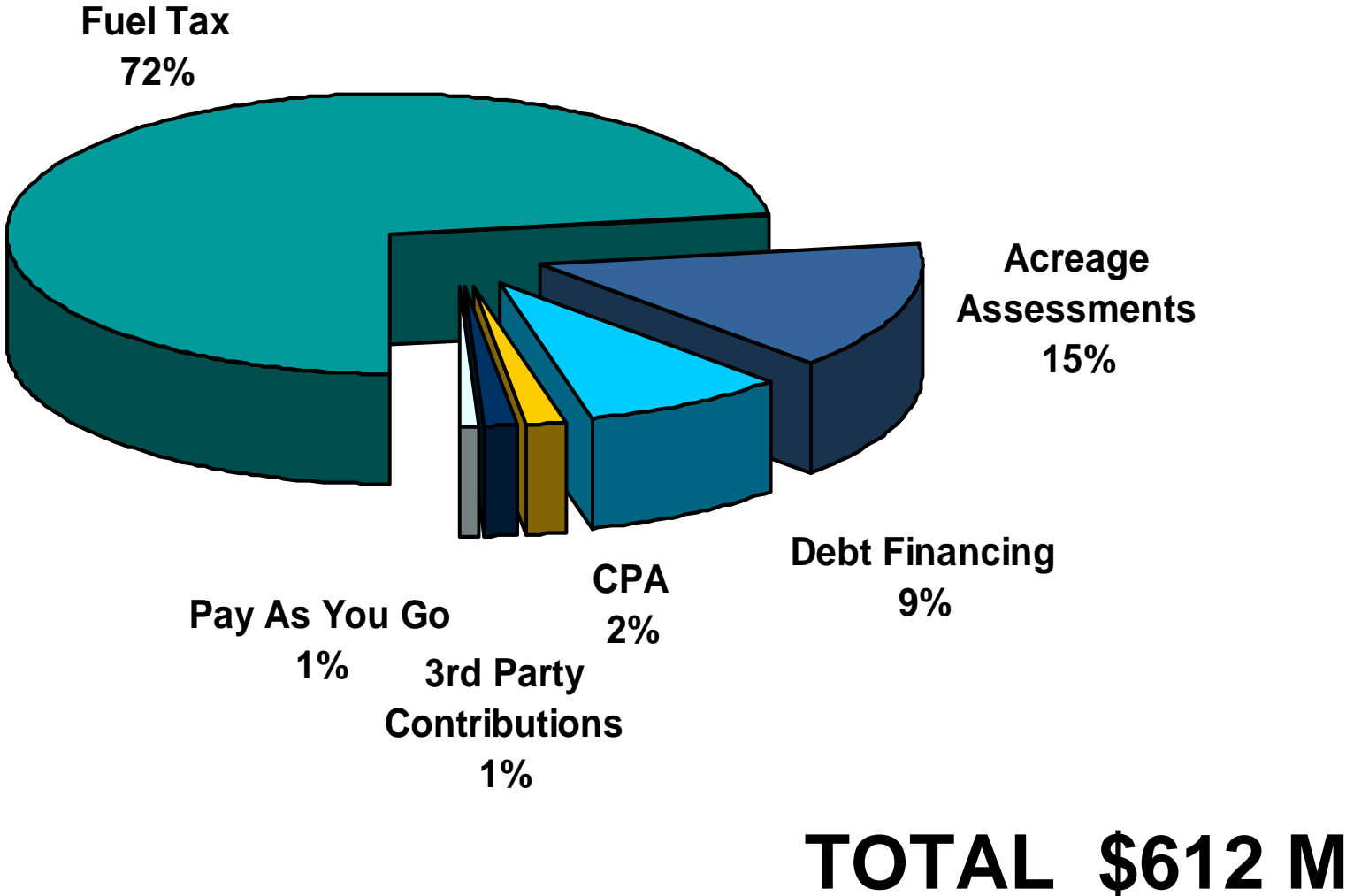


THE CITY OF
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Transportation Infrastructure

2005 - 2009

- Available funding
- City of Calgary program
- Issues

Funding Sources 2005 - 2009





2005 -2009

Recent Provincial Grant	\$886M
Transportation share	\$700M*
TOTAL Transportation	\$1312M
Approximately	\$260M/year

Split approximately equally between Roads and
Transit

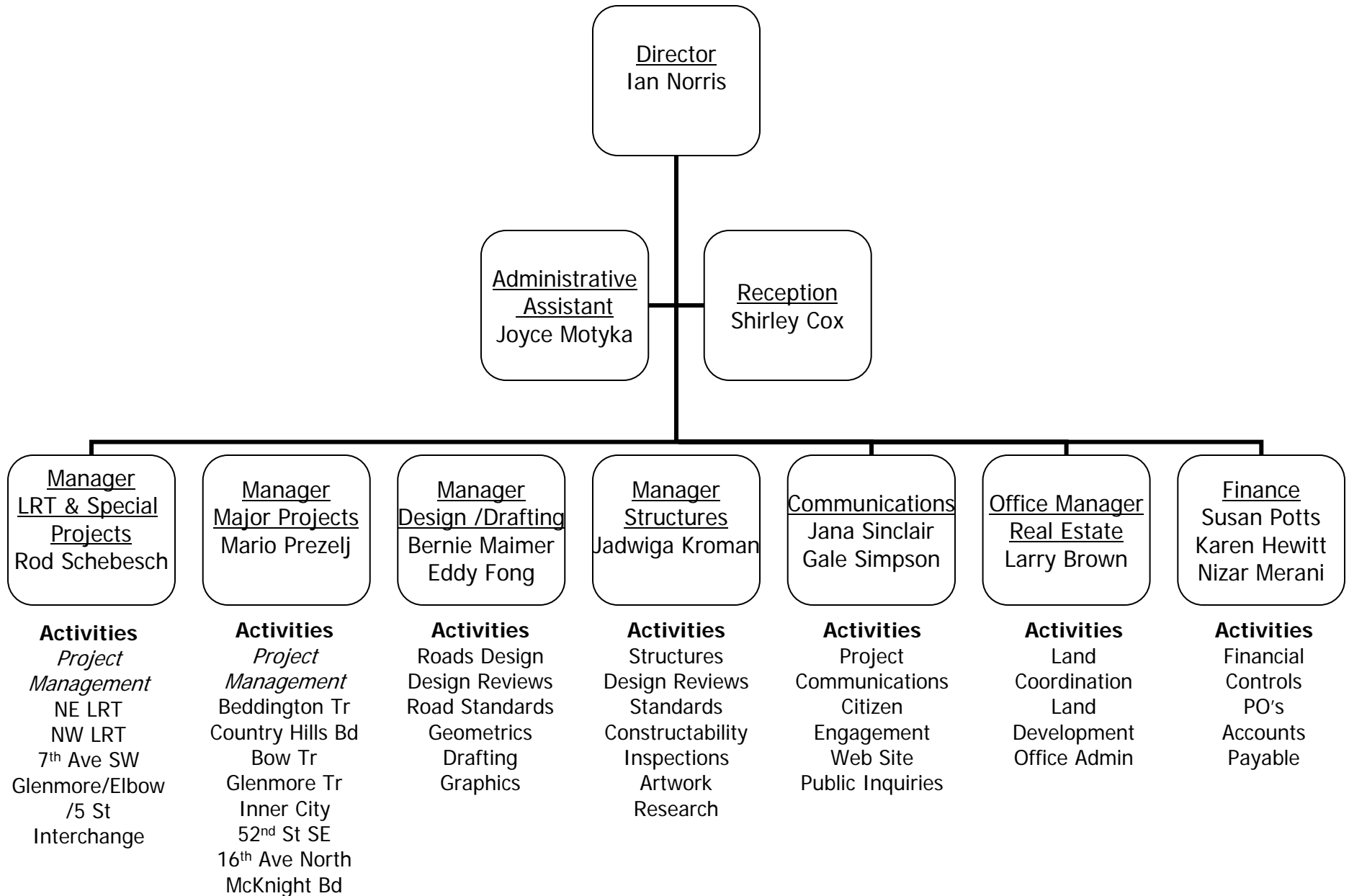
(* not yet approved)



Focus 2005 - 2009

- NE & NW LRT Extensions
- Corridor improvements on the skeletal network of arterial and major road
- 7th Ave Transit corridor
- Rolling stock purchases
- Increase in Road Maintenance programs

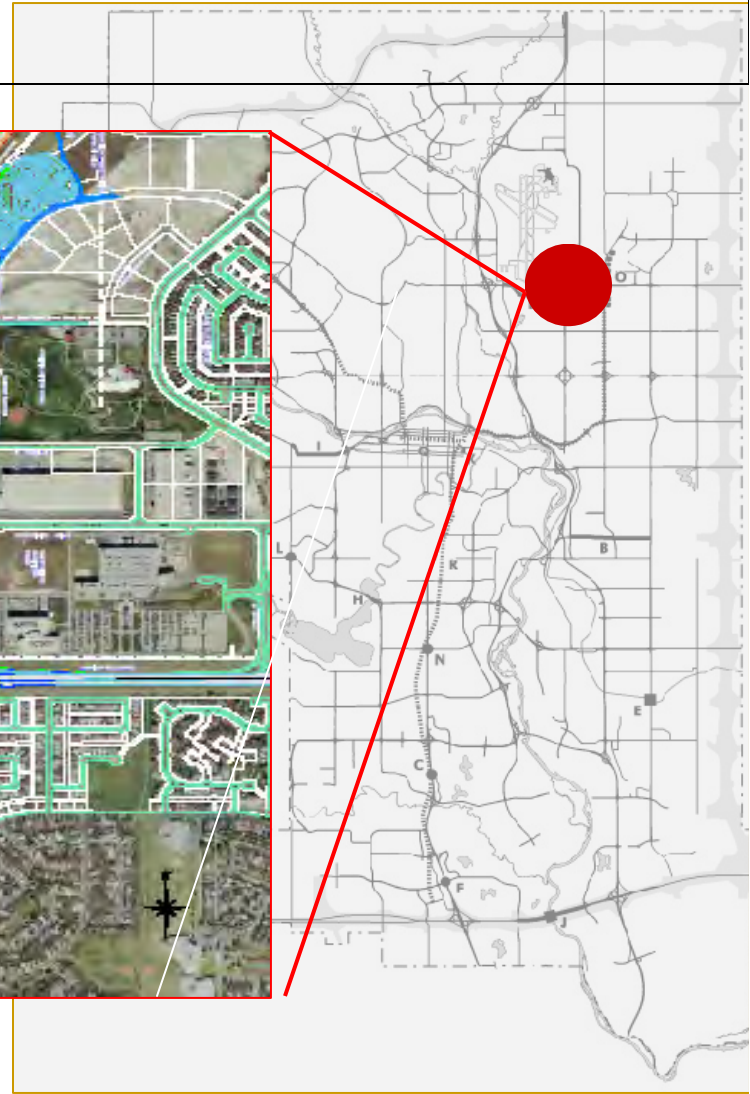
TRANSPORTATION INFRASTRUCTURE



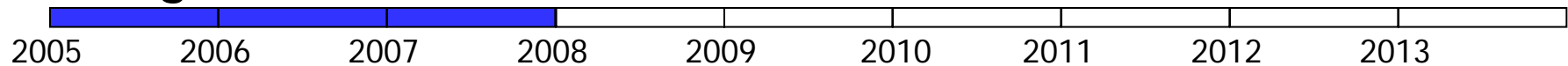
NE LRT Extension

Current project

- Extend NE LRT from Whitehorn Station to McKnight-Westwinds Station
- Interchange at 36 Street NE and McKnight Blvd
- Three bridge structures
- Station & Park 'n' Ride
- LRV storage and maintenance facility



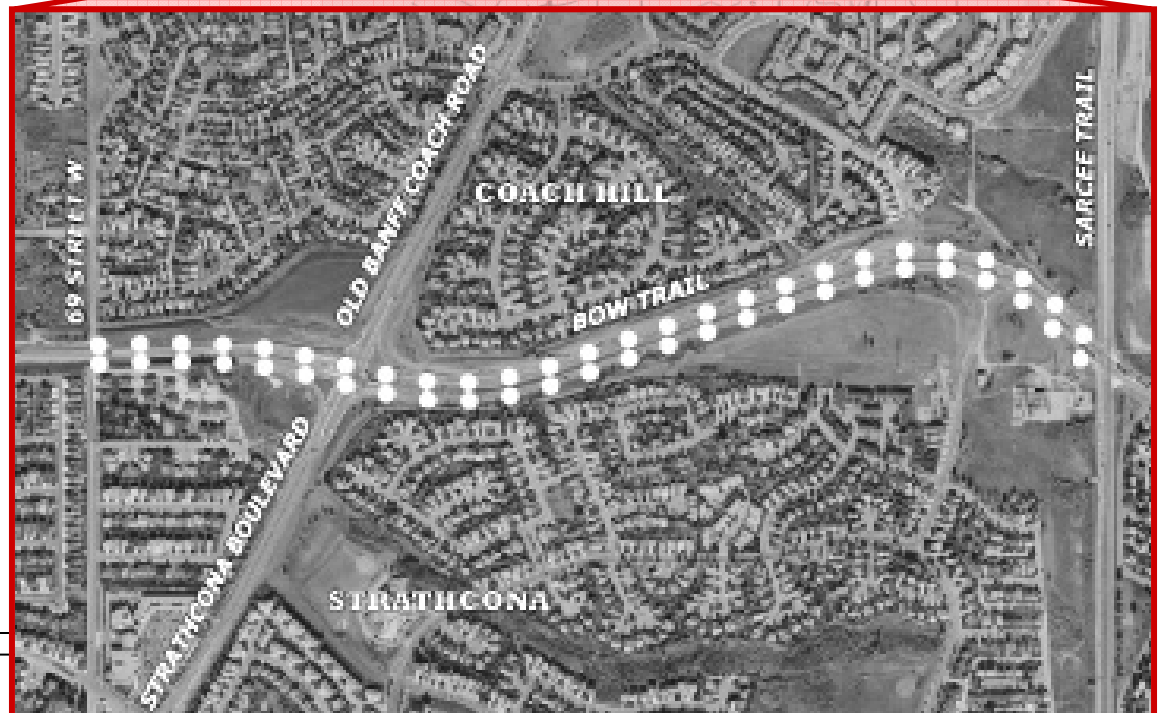
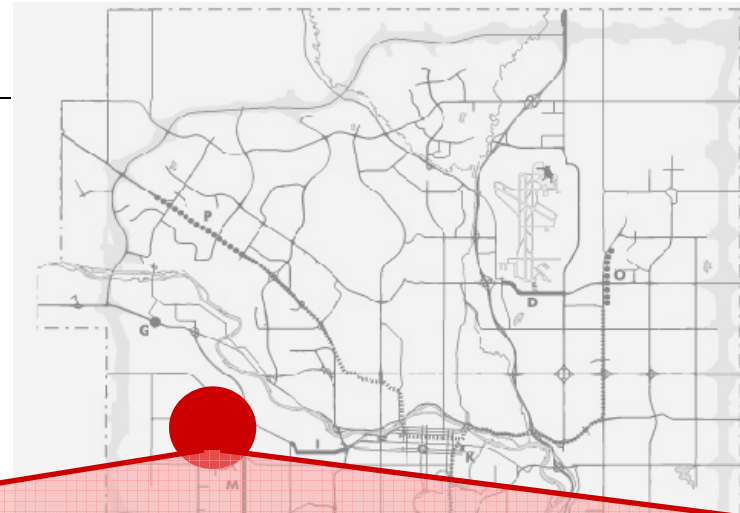
Budget \$220 M



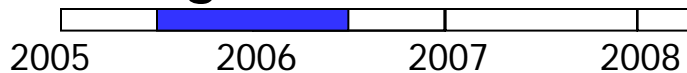
Bow Trail Widening

Current Project

- Widen Bow Trail to six lanes west of 37 Street SW to Old Banff Coach Road
- Serves residential development in Cougar Ridge and West Springs
- Intersection improvements at Sarcee Trail & Bow Trail



Budget \$15 M



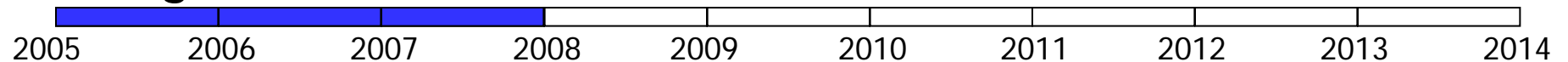
Traffic Calming and ICTS

Current Project

- Mount Royal/Elbow Park
- Sunnyside
- Signal Hill
- 4 Street NW
- Landsdowne Rd/Sifton Blvd
- Mission Road
- 33/34 Avenue SW



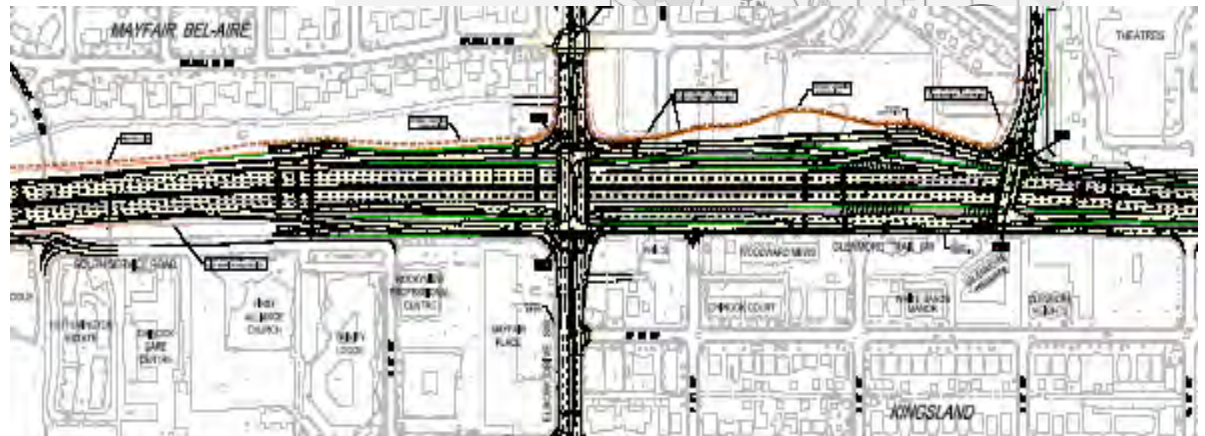
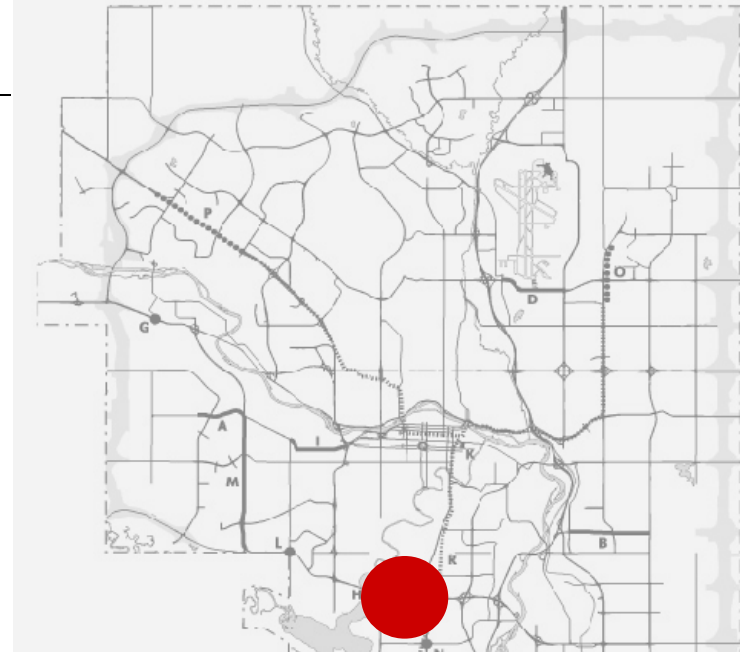
Budget \$20 M



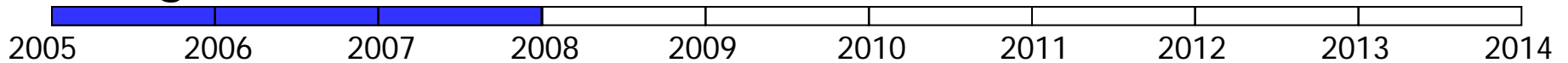
Glenmore Trail / Elbow Drive / 5 Street Interchange

Current Project

- Four new bridges
- Upgrading of Glenmore Trail to three lanes each way
- Elimination of signals on Glenmore Trail
- Two major interchanges
- Lowering of Glenmore Trail



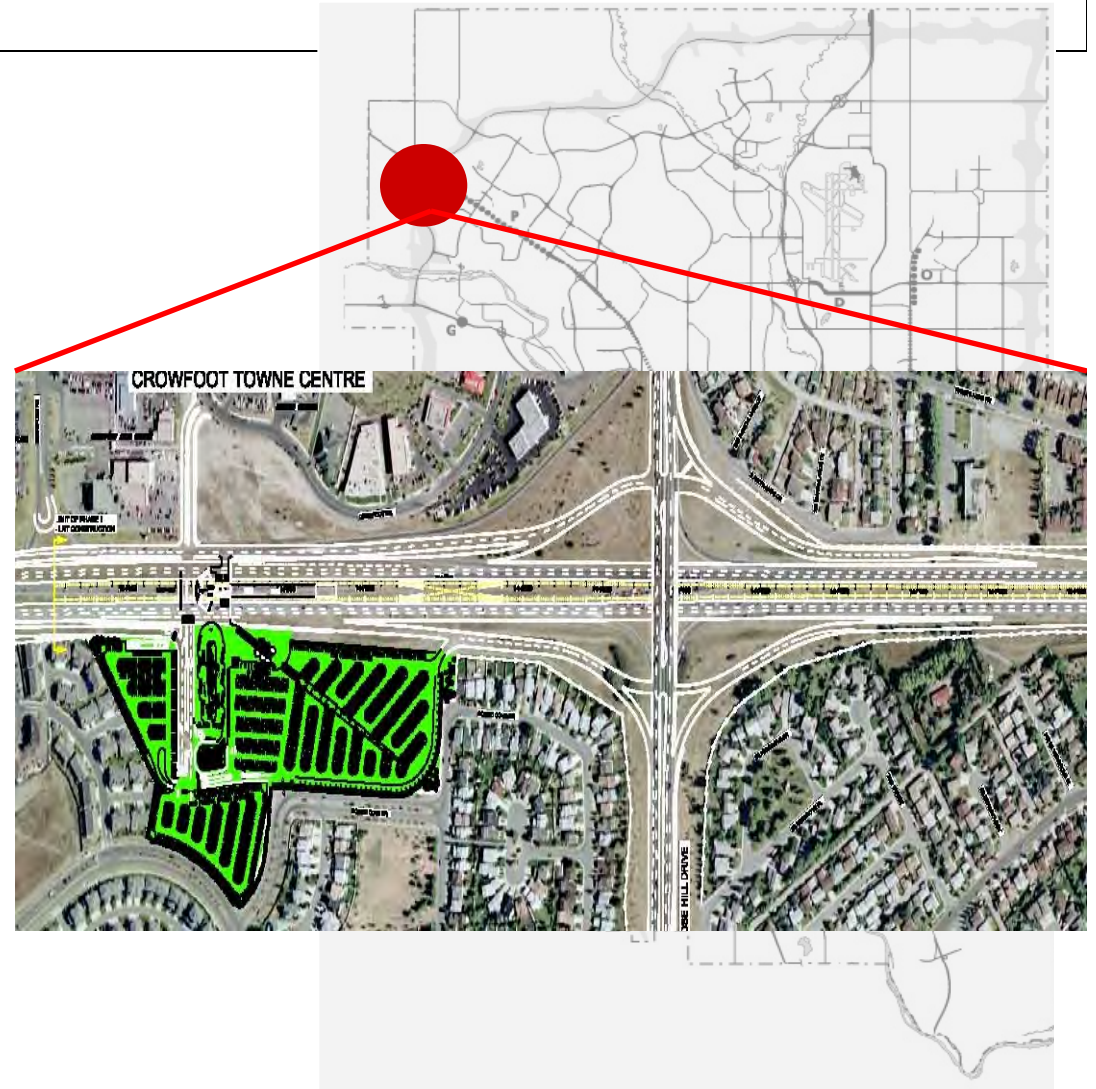
Budget \$110 M



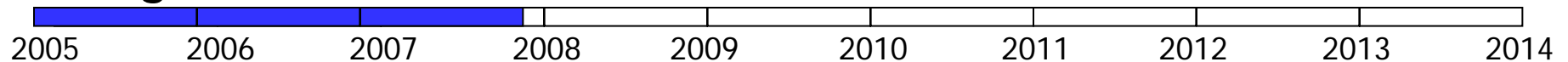
NW LRT Extension and Crowchild Trail Improvements

New Project

- Extend the NW LRT line to Crowfoot Centre including twin Park 'n' Ride lots
- Crowchild Trail improvements with interchanges at Sarcee Trail and Nose Hill Drive
- With the Province's expansion of Stoney Trail including a new interchange at Crowchild Trail, this will be a free flow corridor from 24 Avenue NW



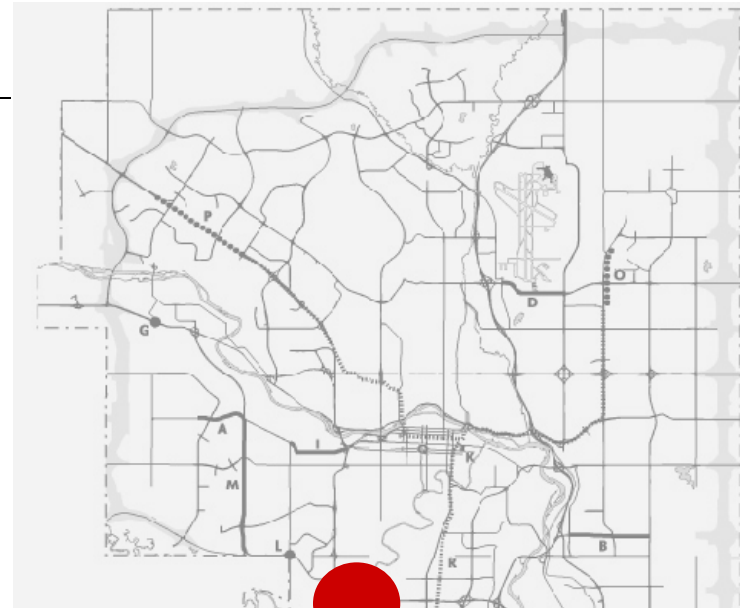
Budget \$183 M



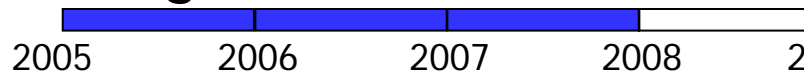
Glenmore Causeway Widening

New Project

- New Causeway bridges
- Facilitates expansion of westbound Glenmore Trail to three lanes
- In conjunction with the new GE5 interchange
- Provides capacity for causeway reconstruction to meet Provincial Government flood capacity requirement



Budget \$56 M



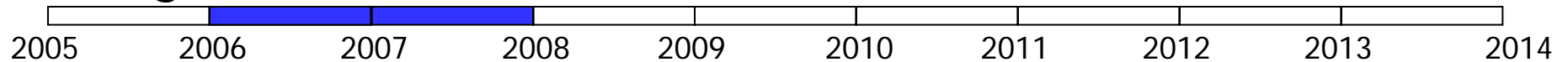
Macleod Trail & Lake Fraser Gate Interchange

New Project

- New interchange serves the south Calgary
- Provides free flow between Anderson Rd and 162 Avenue
- Creates additional capacity for Canyon Meadows LRT Station area intensification



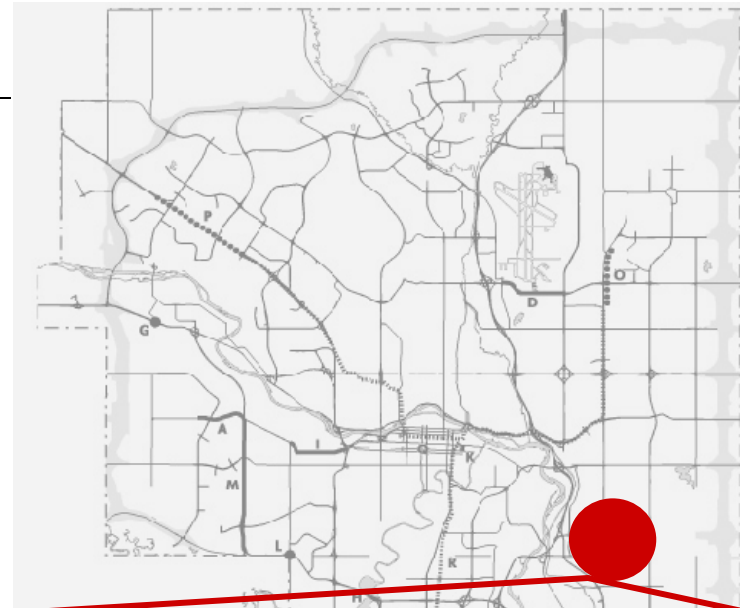
Budget \$18 M



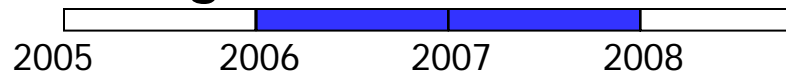
Peigan Trail Widening

New Project

- Twin to four lanes from Barlow Trail to 52 Street SE
- Serves commercial development in the SE industrial areas reducing existing intersection delays
- Potential to extend to East Freeway



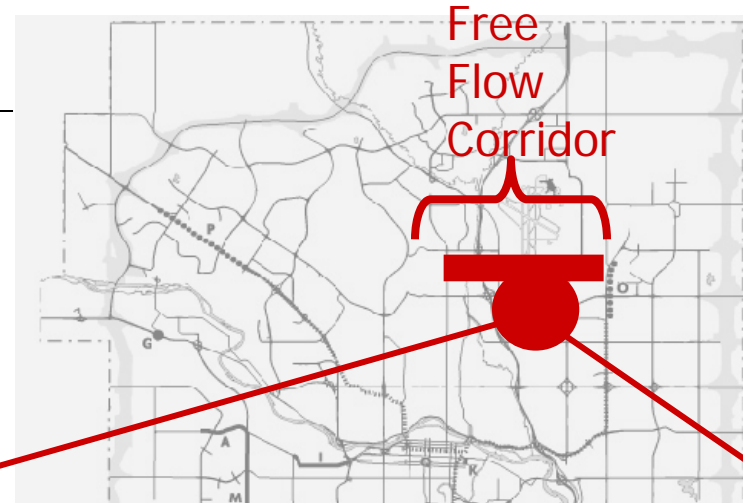
Budget \$9 M



McKnight Blvd Corridor Improvements

New Project

- A continuous program of capacity upgrades
- Initial construction to widen to six lanes from Deerfoot Trail to 19 Street NE
- Potential in 2008-2009 to construct three interchanges
- NE Calgary will be one of the strongest growth sectors of combined residential and commercial development



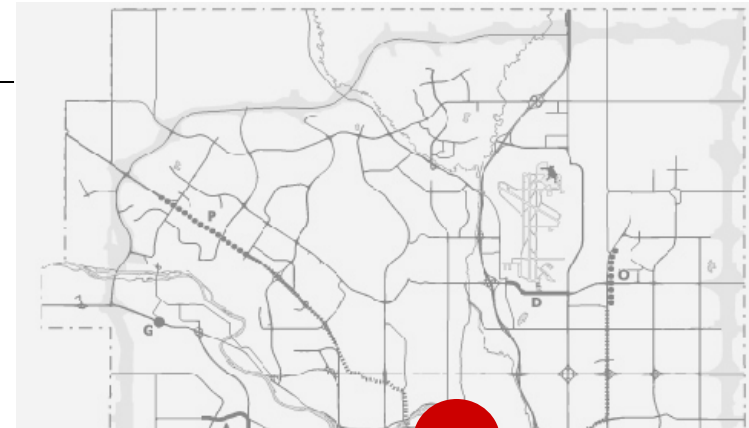
Budget \$75 M



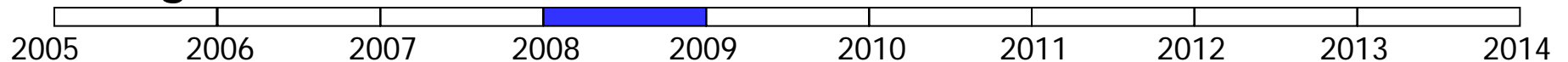
4 Street E / Olympic Way Underpass

New Project

- New road passing under CPR tracks connecting 9 and 11 Avenue SE
- Facilitates redevelopment of Stampede grounds, East Victoria Park and East Village
- Provides a direct pedestrian connection between the eastern neighbourhoods



Budget \$18 M



Macleod Trail & Heritage Drive Interchange / Overpass

New Project

- New interchange to replace the signal and a grade separation of Heritage Drive from the LRT and rail lines
- Signal removal eliminates a significant point of congestion on Macleod Trail
- Provides additional capacity to support redevelopment of the Heritage LRT Station area
- Increased train frequency and expansion to four-car LRT trains will create delays on Heritage Drive

Budget \$60 M



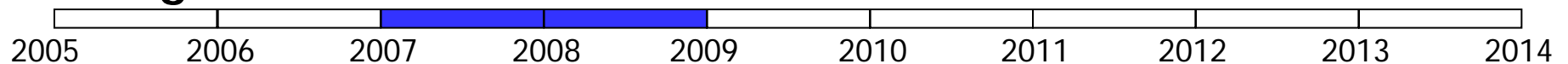
52 Street SE Grade Separated Rail Crossing

New Project

- New bridge to take 52 Street SE over CPR mainline
- CPR's intermodal yard is expanding
- Increased movements between CPR's yards will block 52 Street SE
- Industrial development will warrant expansion to six lanes, build bridge now



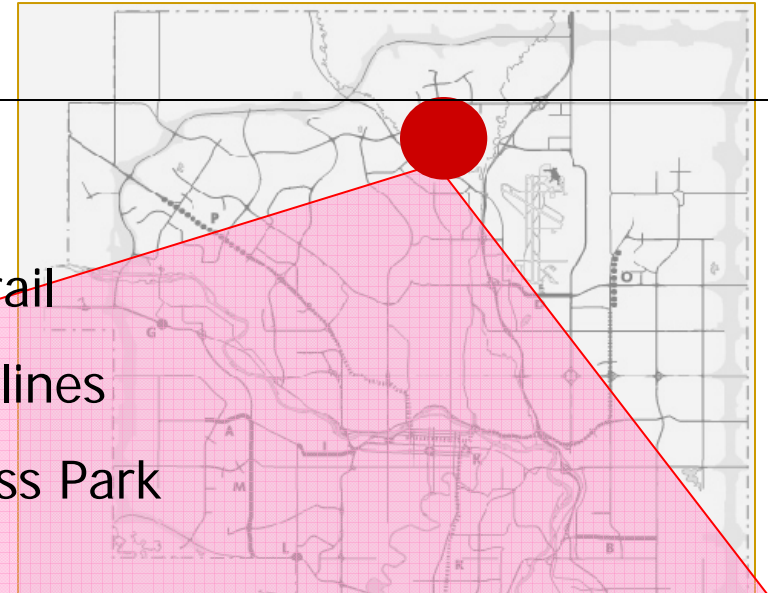
Budget \$18 M



96 Avenue N (Deerfoot Trail to Harvest Hills)

New Project

- New four lane major road
- Connects Harvest Hills Blvd to Airport Trail
- Structures over Nose Creek and the rail lines
- Serves north Calgary and Aurora Business Park



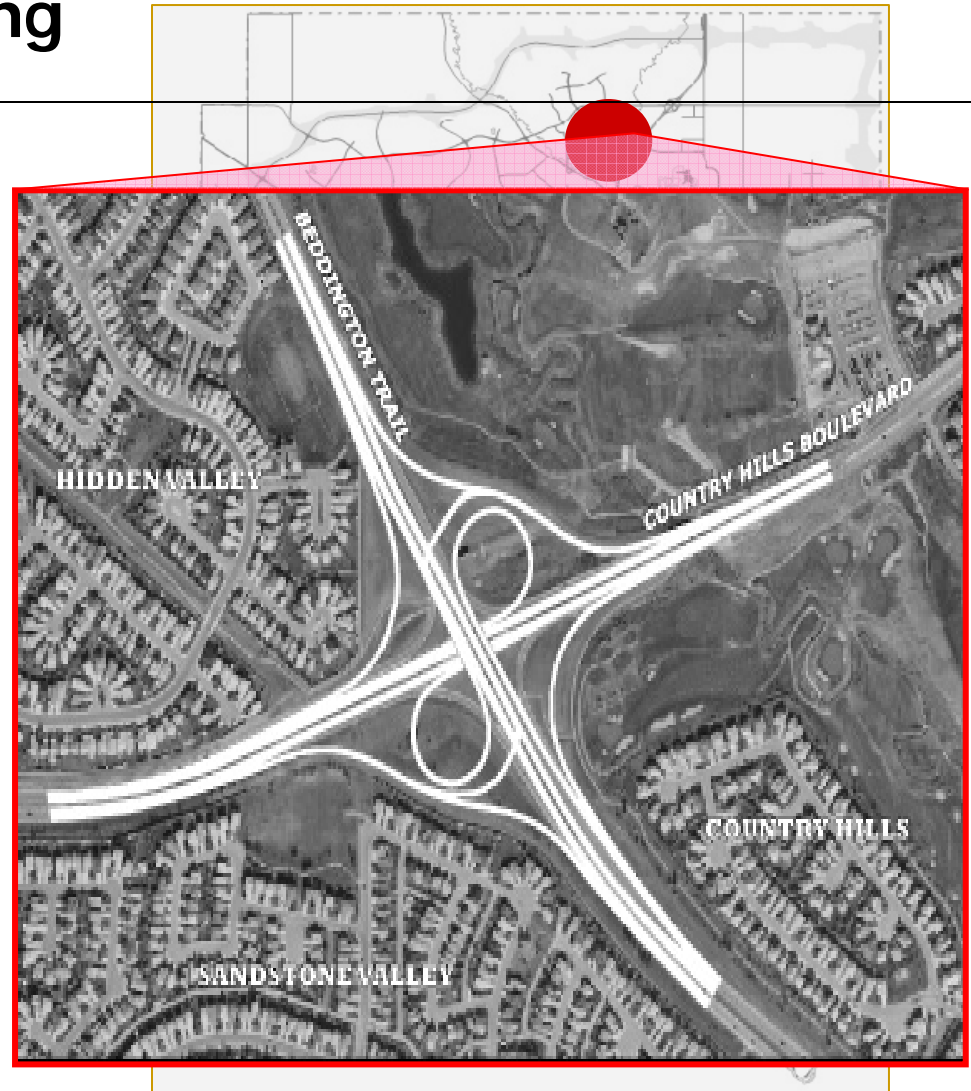
Budget \$20 M



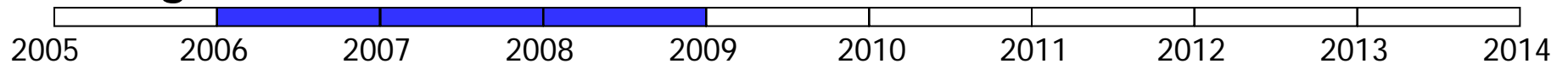
Beddington Trail / Country Hills Blvd Interchange & Widening

New Project

- Widening of Beddington Trail from Deerfoot Trail to CHB
- Widening of CHB from Beddington through Shaganappi Trail
- Shaganappi Trail from Edgemont Blvd to Hidden Valley Drive
- CHB from Beddington to Stoney Trail



Budget \$65 M



Macleod Trail & 162 Avenue Interchange

New Project

- New grade separated interchange
- Serves south Calgary
- Provides free flow between Anderson Rd and 196 Avenue
- Creates needed capacity for: Shawnessy, Sundance business developments



Budget \$27 M



Sarcee Trail SW - Corridor

New Project

- Widening Sarcee Trail and potential interchange at Bow Trail - Under Review
- Serves southwest Calgary and acts as a cross town commuter route
- Widening must work around power towers and significant grades
- Construction of the SW Connector will significantly increase traffic here



Budget \$55 M



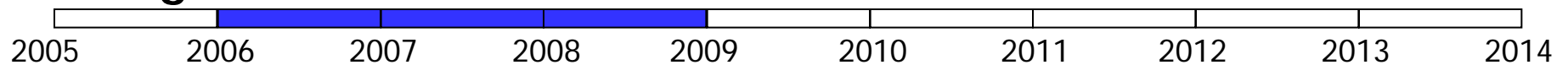
Trans Canada Hwy & Bowfort Road Interchange

New Project

- New overpass to remove existing signals
- Serves Canada Olympic Park and their proposed expansion and office redevelopment area
- Supports development of the Greenbriar vacant lands



Budget \$40 M



Glenmore Trail: Ogden Road to Bow River

New Project



- New river bridge
- Upgrading of Glenmore Trail to three lanes each way
- Ties into Glenmore/18th St interchange

Budget \$22 M





Other Projects

- 36 Street NE to 64 Avenue \$8M
- 22X: Macleod to Bow River \$6M
- Crowchild Tr: Sarcee to Nose Hill \$13M
- 14 St SW: 90 Avenue to Anderson Rd \$12M
- 44 Street NE: 64 Ave to 80 Ave \$9M
- Pedestrian Overpasses \$12M
- Miscellaneous \$20M
- Infrastructure Maintenance \$30M



Transit Projects

- LRV purchase \$130M
- New Buses/Shuttles \$35M
- Articulated Buses \$28M
- 7th Ave corridor \$60M
- SLRT Platforms \$20M
- Life Cycle Rehabilitation \$30M
- Bus Rapid Transit \$9M
- Infrastructure upgrades \$15M



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Total Funding Requirement

Current and future projects
2005 - 2009

\$1.5B



2009 ...

- West LRT Extension
- Crowchild Trail: Kensington to Bow River
- Bow Trail – downtown connector
- SW Connector related improvements
- East industrial area
- McKnight/John Laurie Corridor
- Transit system improvements



Issues

- Cost escalation
- Increase in raw material costs
- Volume of work/capacity of industry
- Shortage of skilled labour



Actions

- Gather all current information and revisit major project cost budget estimates
- Assign revised escalation rates from the start and throughout multi-year projects
- Monitor cost increases closely and regularly to identify industry trends
- Optimize construction schedules and tender early in year



Actions

- Schedule tenders to ensure different closing dates in conjunction with other owners. e.g., Province, CHR
- Focus on appropriate procurement strategies and design choices which provide some flexibility.
- Continue ongoing discussions with the contracting industry and work together to reduce risks



Actions

- Plan, Plan, Plan
- Manage projects for scope creep
- Effective project management
- Media campaigns
- Effective detours