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

William the Conqueror, 1066
“Mobility is the most pressing issue for Calgarians today.”

Mayor Dave Bronconnier, 2005
2005 - 2009

- Available funding
- City of Calgary program
- Issues
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
NE LRT Extension

• 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

- 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
16 Avenue North Urban Corridor - 10 Street W to 6 Street E

Current Project

- Upgrading of pedestrian corridors
- Widening of 16 Avenue to six lanes
- Creation of new look urban corridor
- Redevelopment opportunities

Budget $70 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

- 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

- 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 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 I Interchange

- 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

- 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

<table>
<thead>
<tr>
<th>Year</th>
<th>2005</th>
<th>2006</th>
<th>2007</th>
<th>2008</th>
</tr>
</thead>
<tbody>
<tr>
<td>Budget</td>
<td>$9 M</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
McKnight Blvd Corridor Improvements

- 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 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 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 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 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

- 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 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

- 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 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 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
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