

The Issue: Surface Flooding

Montgomery Place's unique network of ditches and culverts for storm water drainage contributes to its rural charm

Over time, drainage paths have been compromised by:

- Newly constructed driveways
- Landscaping
- Ongoing ditch erosion

During spring snowmelt and intense rainfalls, run-off results in:

- Flooded basements and property damage
- Nuisance water ponding in yards and streets
- Stress for Residents
- Maintenance costs for City crews





Proposed Construction Area 2020

Proposed 2020 Construction

Shallow Storm Sewer Pipe Installation:

- Dundonald Ave from Caen St to Dieppe St
- Road resurfacing will occur once the pipe has been installed and trench backfill is complete

Ditch and Culvert Reconstruction:

- Both sides of Caen St from Dundonald Ave to Currie Ave
- Both sides of Lancaster Blvd from Caen St to Ortona St
- The east side of Lancaster Blvd from Ortona St to Dieppe St

Water Main Replacement:

- Caen St from Dundonald Ave to 3206 Caen St (west of Lancaster Blvd)
- Lancaster Blvd from Caen St to 1210 Lancaster Blvd (south of Lancaster-Caen intersection)
- Lead-line and Fibre connection replacement

Road Construction:

- Will occur once water main replacement and/or ditch construction is completed
- Caen Street from Dundonald Ave to 3206 Caen St
- Lancaster Blvd from Caen St to Dieppe St

Timeline



Project Costs

Total 2020 Construction Cost Estimate: **\$3.6 million**

2020 Culvert and Driveway Restoration

Cost Estimate: \$510,000

- Estimated \$3,000 to \$39,000 per property
- In March or April, City Council will consider a cost sharing options to restore the portions of non-compliant driveways across right-of-ways

Lead Water Replacement Program

Cost Sharing Agreement:

- 60-40% between the City and homeowner
- 2020 rate for homeowner lead line replacement cost is \$3,520

Fibre Connection (sewer) Replacement Program

Cost Sharing Agreement:

- 2020 rate for homeowner fiber connection replacement cost is \$2,906
- Fibre connection replacement is optional (at discretion of homeowner)

Cost Sharing

Compliant Driveways

- **Crossing less than or equal to 6.1 m in width**
- **300 mm culvert installed.**

Property Owners with compliant driveways **will not** have to pay for driveway restoration or culvert installation

Non-Compliant Driveways Cost Sharing Options

- **OPTION 1:** Residents to pay for costs exceeding \$10,000
- **OPTION 2:** 60%/40% cost sharing agreement between the City and Resident

Residents may select a different driveway restoration material and/or width to reduce the overall cost (e.g. existing brick driveway restored with asphalt)

Project Impacts

- › Improved Road Surface
- › Reduced Risk of Water Main Breaks
- › Reduced Risks of Flooding and Damage
 - ▶ Ditch and culvert installation
 - ▶ Increased steepness of ditches to preserve most trees in City right-of-ways
 - ▶ Limited tree removal where necessary
 - ▶ Landscaping removal (e.g. flower beds and irrigation) in City right-of-ways
 - ▶ Parking impediments
 - ▶ Incremental effort for residents to maintain drainage paths



Culverts & Driveways

- › Installation of 300 mm PVC (i.e. plastic material) or Concrete Culvert under all driveway crossings to meet drainage design elevations
- › Optional riprap on culvert
- › Driveway crossing reconstruction



Proposed New Crossing Standard Option

Maximum driveway crossing width based on lot frontage

Interior Site:

- Maximum total crossing width of 1/3 lot frontage or 10 m (32.8 ft), whichever is smaller
- Lots where 1/3 frontage is less than 6.1 m (20 ft) may have a maximum total crossing width of 6.1 m
- Maximum two crossings per residence (house)

Exterior Site (Corner Lot):

- Maximum one crossing on the frontage and one crossing on the flankage (side of property) or two crossings on the frontage and zero crossings on flankage
- The frontage crossing(s) may have a maximum total crossing width of 1/3 lot frontage or 10 m (32.8 ft), whichever is smaller.
- Corner lots where 1/3 frontage is less than 6.1 m (20 ft) may have a maximum total crossing width of 6.1 m on the frontage
- The flankage crossing may have a maximum total crossing width of 3.1 m (10 ft) if only one crossing exists on the frontage

Crossings with less than the maximum allowed width will be restored to existing width in City of Saskatoon drainage improvement projects

Trees on City Right-of-Ways

- › Steeper ditch slope for short distances around trees for preservation
- › **135** out of **148** trees on ROWs proposed to be preserved
- › Locations of tree removal shown on Site Map

