

Rosedale Community Information Package

2023-11-15

Protecting Your Community

A permanent berm will protect the people, properties and infrastructure of Rosedale and help the community with insurance and mortgages. A permanent berm will also eliminate the need for temporary berms.

Temporary berm structures were erected in 2005 & 2013 due to forecast flooding.

Repair and recovery costs were >\$1M following each of the floods.



Rosedale Flood Risk

- Based on the updated Provincial mapping, the flooding extents for the design flow rate of $1850\text{m}^3/\text{s}$, which is the regulated 1:100 year flood on the Red Deer River, are shown on this figure.
- The Rosedale berms will mitigate against this flooding, protecting the community into the future.
- Berm elevation is set for design flood elevation + 0.5m freeboard.
- Berm top width will be 4m.
- Once the berm is constructed 80 homes will be protected.



Rosedale Berm & West Rosedale Scarlett Berm Overview



West Rosedale
Scarlett Berm

Rosedale Berm
Alignment

Berm Protection of Lift
Station

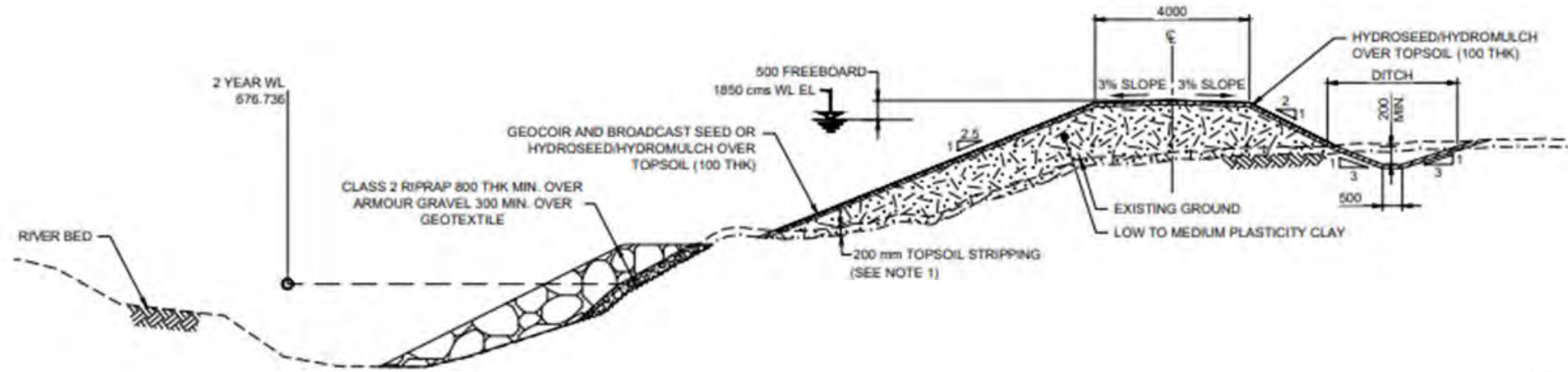


Rosedale Berm - Overall Site Plan

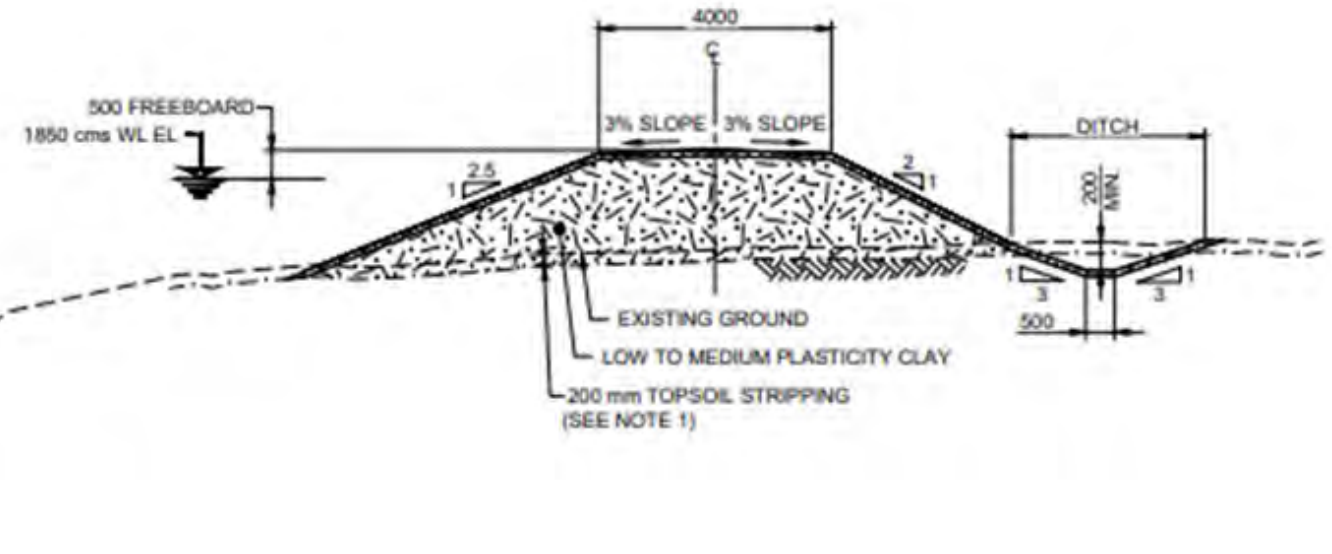


Typical Berm Cross-Sections at Rosedale Berm

Typical Cross Section along the Rosebud River

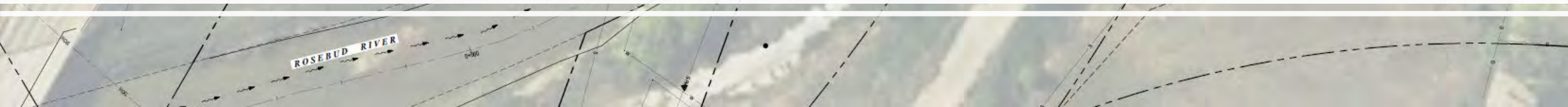


Typical Cross Section along Red Deer River

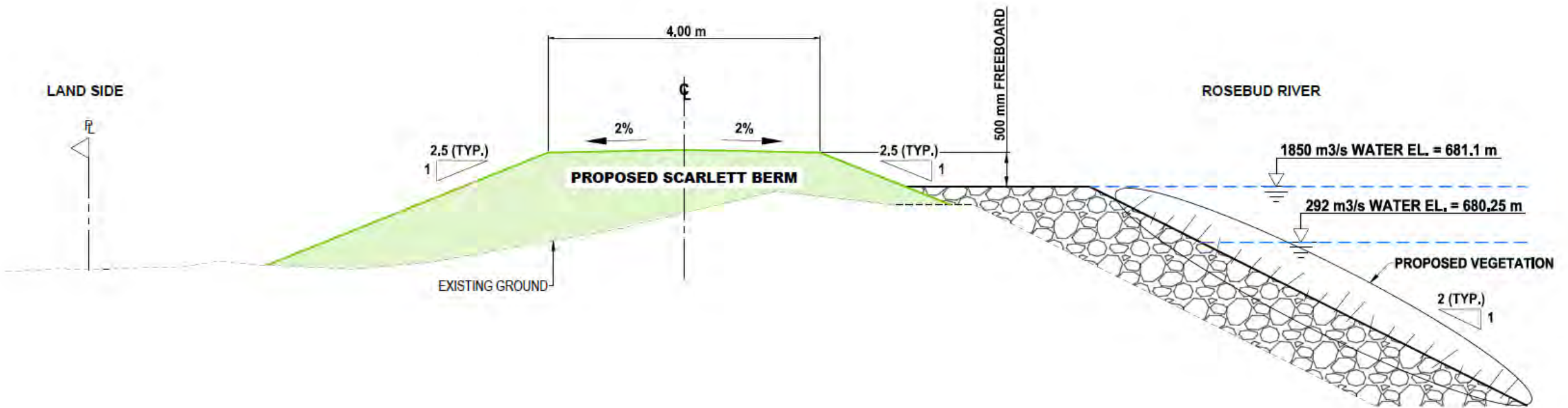




West Rosedale Scarlett Berm - Overall Site Plan



Typical Berm Cross-Section at West Rosedale Scarlett Berm



TYPICAL CROSS-SECTION: SCARLETT BERM

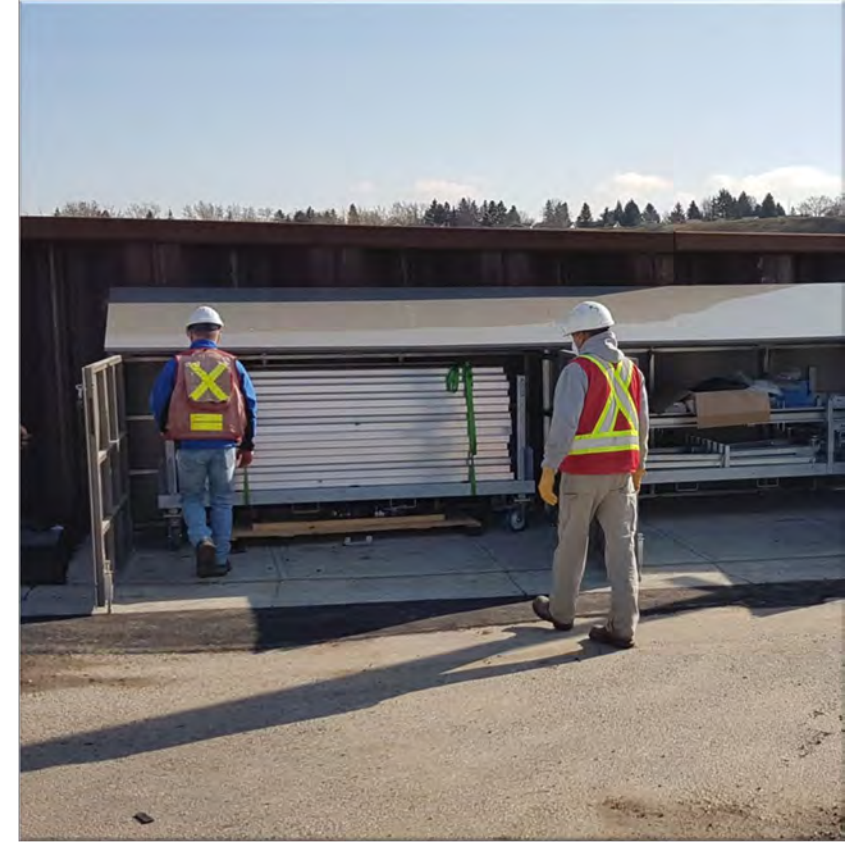
Scale 1:30

0 0.20 0.40 0.60 0.80 1.0 m

An aerial photograph of a suspension bridge crossing a wide river. The bridge has two towers and a network of cables. The surrounding landscape is lush with trees in various shades of green and yellow, indicating autumn. The river reflects the sky and the surrounding greenery. In the foreground, there's a dirt path leading down towards the riverbank.

Suspension Bridge Rehabilitation

- Construction will start subject to Contractor confirmation (approximately Nov 1, 2023) and the work area will be accessed via Eladesor on the north side of the river.
- Completion of the work will be by the end of April 2024 and the scope of work will include:
- Washout culvert replacement along the access road to the north side.
- Repairs to timber structure on the north tower
- Removal of 7 trees on the south side of the bridge which risk the Bridge supports



Suspension Bridge Stop-log Gate

- An opening will be left in the berm at the Suspension Bridge to accommodate the cables.
- A stop-log gate will be erected across the opening at the Suspension Bridge in the event of a flood being forecasted. Images are an example of what a Stop-log Gate would look like.
- All pieces are stored in a shed on site.

Tree Replacement Strategy

To preserve the Drumheller Valley urban tree canopy, healthy trees removed for berm construction will be replaced according to the following guidelines: pg 1 of 2

ENHANCE THE URBAN FOREST

5 new trees or shrubs will be planted for each healthy tree removed

1 x REMOVED

5:1



5 x REPLACED

DESIGN FOR BIODIVERSITY

plant a range of species to promote long-term success and resiliency



ENHANCE EXISTING PLANT COMMUNITIES

prioritize species that are similar to those that are currently thriving in the local area



ENHANCE THE URBAN FOREST

prioritize revegetation near the berm, where feasible, and in public areas within the local community



Tree Replacement Strategy

To preserve the Drumheller Valley urban tree canopy, healthy trees removed for berm construction will be replaced according to the following guidelines: pg 2 of 2

PRIVATE TREES

for healthy trees removed from private property, we will work with the affected owner to provide one replacement tree to be located on the affected property and four trees on public lands

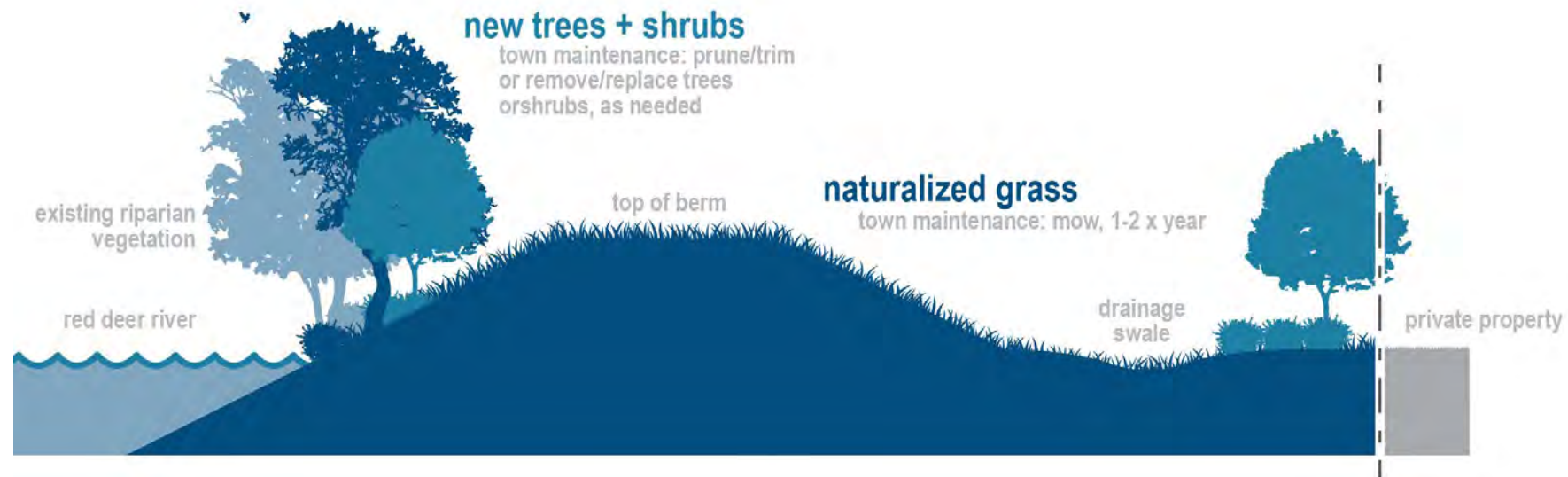
1 x removed
1 x replaced



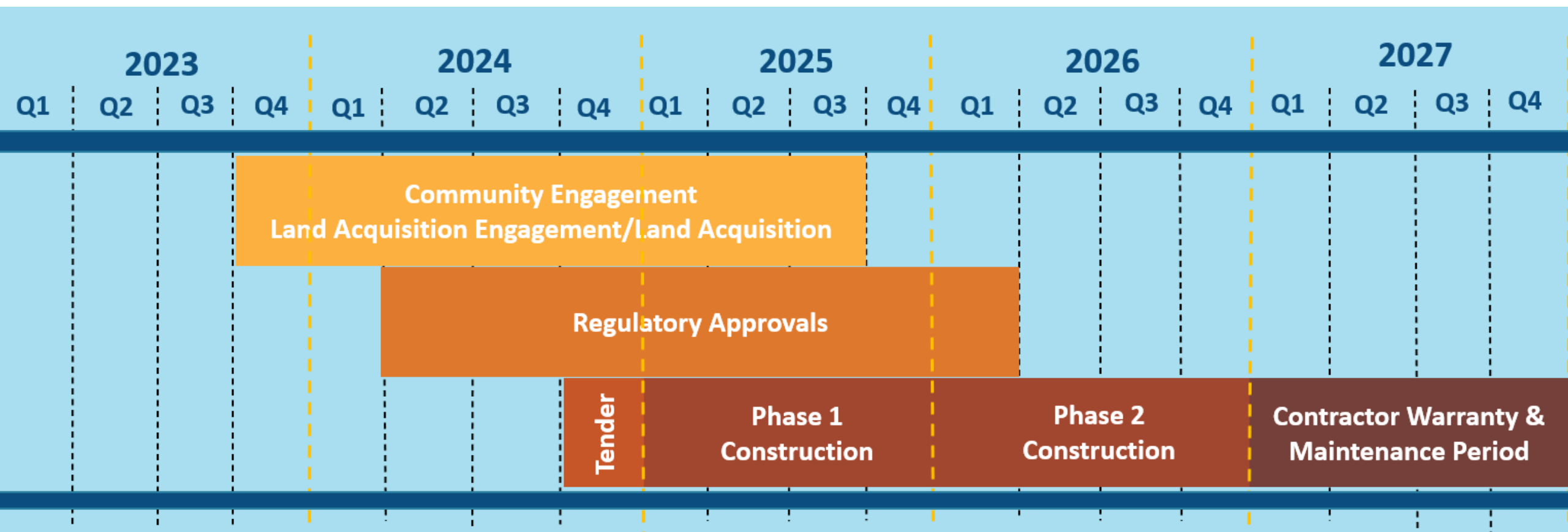
LONG-TERM BERM DESIGN INTENT



Examples of naturalized grass



Rosedale Berm / Scarlett Berm– Preliminary Schedule



*Schedule subject to change based on progress of funding, property acquisition, regulatory approvals, material supply, etc.

For more information visit our website at <https://floodreadiness.drumheller.ca> or email us at floodreadiness@drumheller.ca

Beware of Construction Zones



URGENT MESSAGE FROM THE FLOOD OFFICE!

We want to remind everyone of the risks associated with entering construction work sites.

Construction sites are hazardous areas, and unauthorized entry can result in serious injury or harm to oneself and others.

The Town of Drumheller and its contractors prioritize safety and have implemented strict safety protocols to ensure the well-being of workers and visitors on the site. These safety measures include the use of safety gear, installation of barricades, and prominent warning signs.

We ask all residents to respect and adhere to these safety protocols. Unauthorized entry into the construction site without proper authorization is strictly prohibited. By doing so, you not only put yourself at risk but also jeopardize the safety of others.

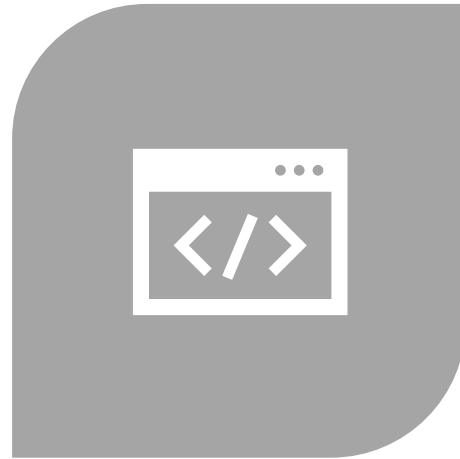
If you have any questions or concerns regarding the Flood Mitigation Project or the safety protocols in place, please feel free to contact us at floodreadiness@drumheller.ca.

Your safety is our utmost priority, and we appreciate your cooperation in ensuring a secure work environment for everyone.

Contact Us



EMAIL – FLOOD OFFICE:
FLOODREADINESS@DRUMHELLER.CA



WEB:
FLOODREADINESS.DRUMHELLER.CA



EMAIL - COMMUNITY ADVISORY
FLOODCOMMITTEE@DRUMHELLER.CA



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DRUMHELLER FLOOD OFFICE IS FUNDED BY:



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