

2023-11-15

# North Drumheller Community Information Package



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## North Drumheller 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 North Drumheller 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.



# Historic Creek Centerlines for Michichi Creek

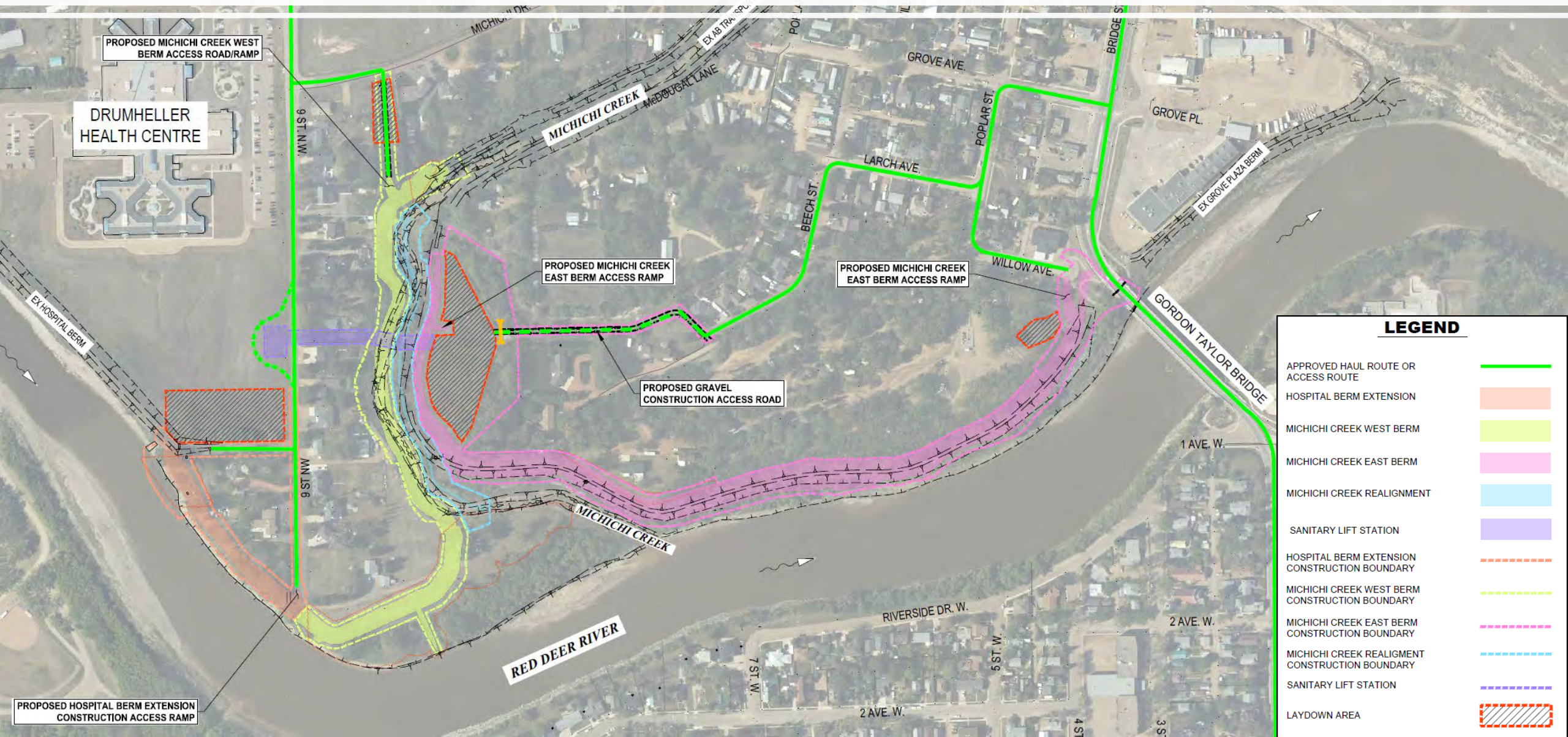
## Legend

- Proposed Michichi Creek Centerline
- 1950 (1,312m)
- 1963 (1,042m)
- 1976 (1,047m)
- 2019 (1,001m)





# North Drumheller Flood Improvements

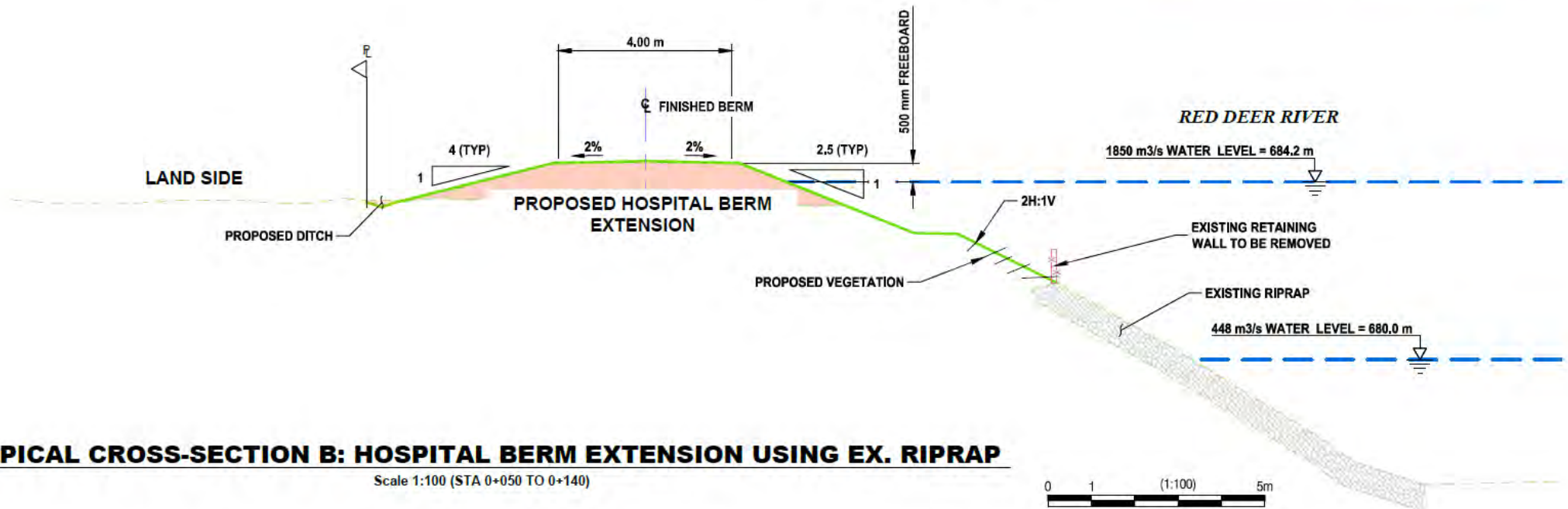
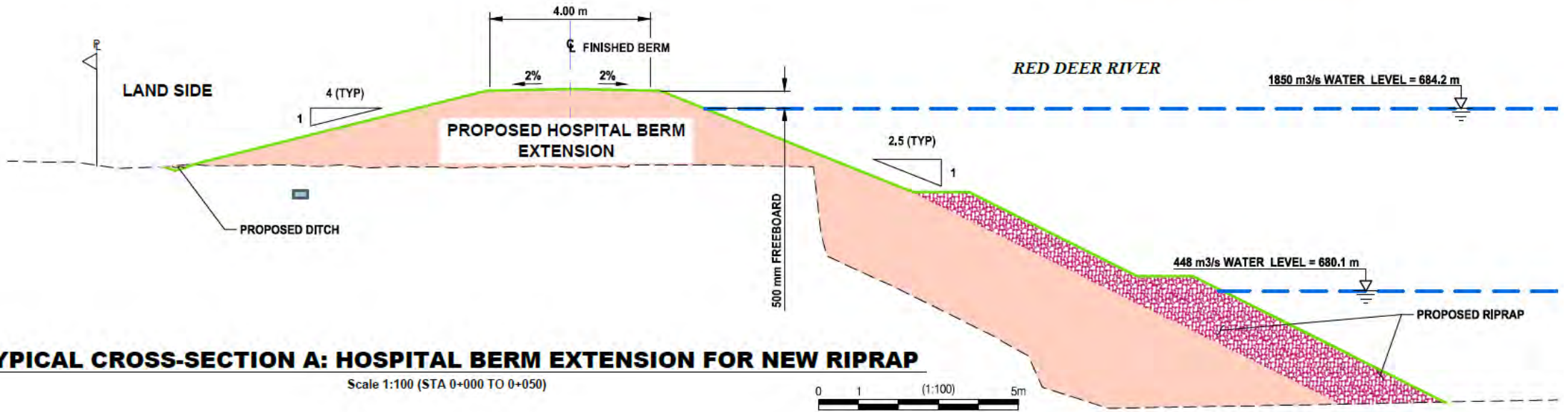


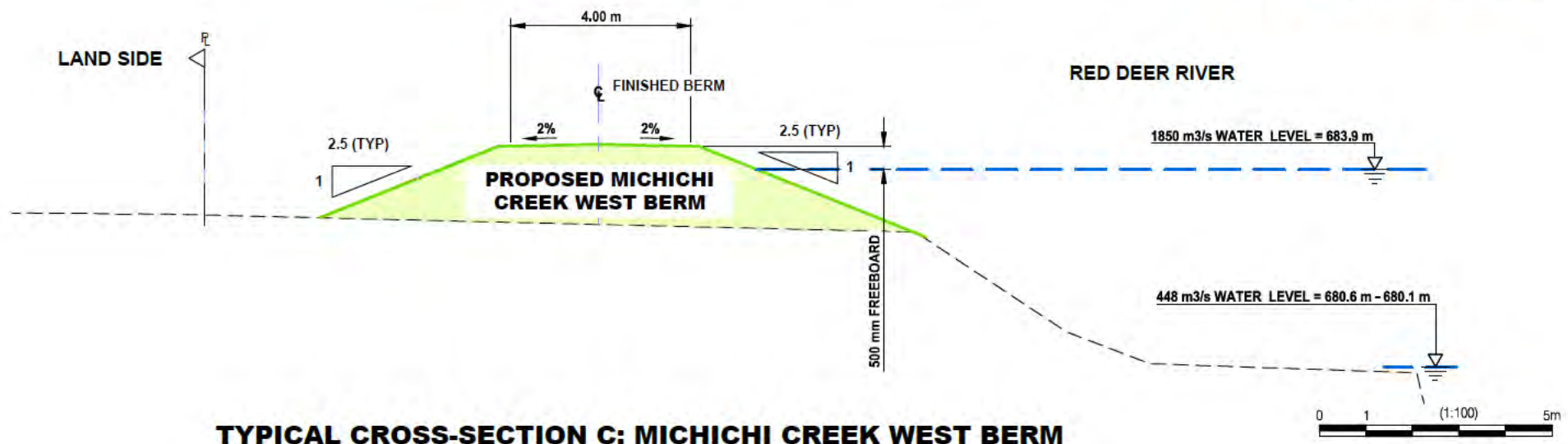
LEGEND	
APPROVED HAUL ROUTE OR ACCESS ROUTE	
HOSPITAL BERM EXTENSION	
MICHICHI CREEK WEST BERM	
MICHICHI CREEK EAST BERM	
MICHICHI CREEK REALIGNMENT	
SANITARY LIFT STATION	
HOSPITAL BERM EXTENSION CONSTRUCTION BOUNDARY	
MICHICHI CREEK WEST BERM CONSTRUCTION BOUNDARY	
MICHICHI CREEK EAST BERM CONSTRUCTION BOUNDARY	
MICHICHI CREEK REALIGNMENT CONSTRUCTION BOUNDARY	
SANITARY LIFT STATION	
LAYDOWN AREA	



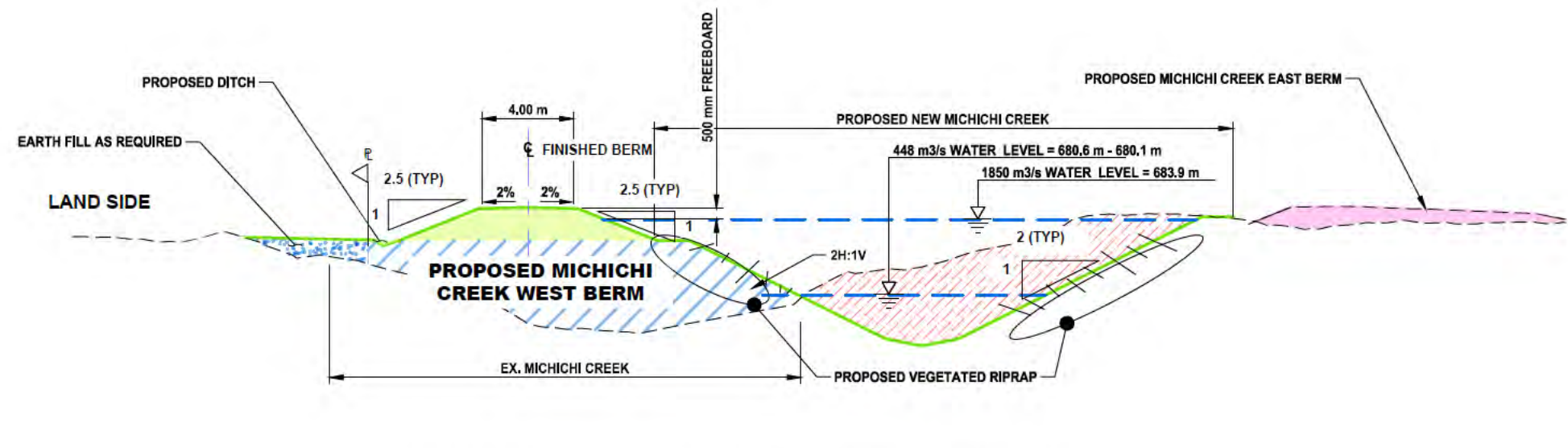






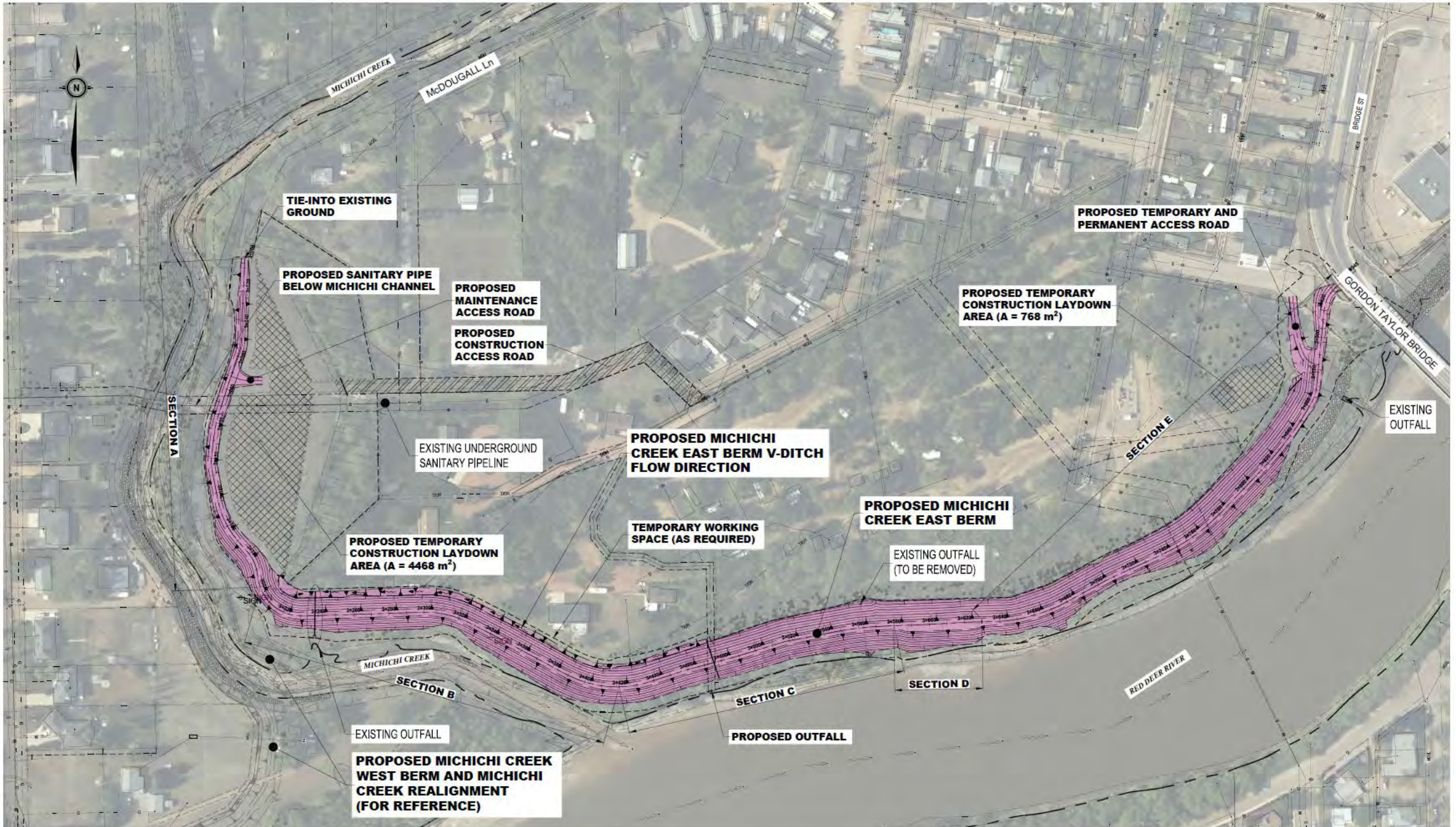


**TYPICAL CROSS-SECTION C: MICHICHI CREEK WEST BERM**  
Scale 1:100 (STA 2+000 TO 2+210 AND 2+480 TO END)

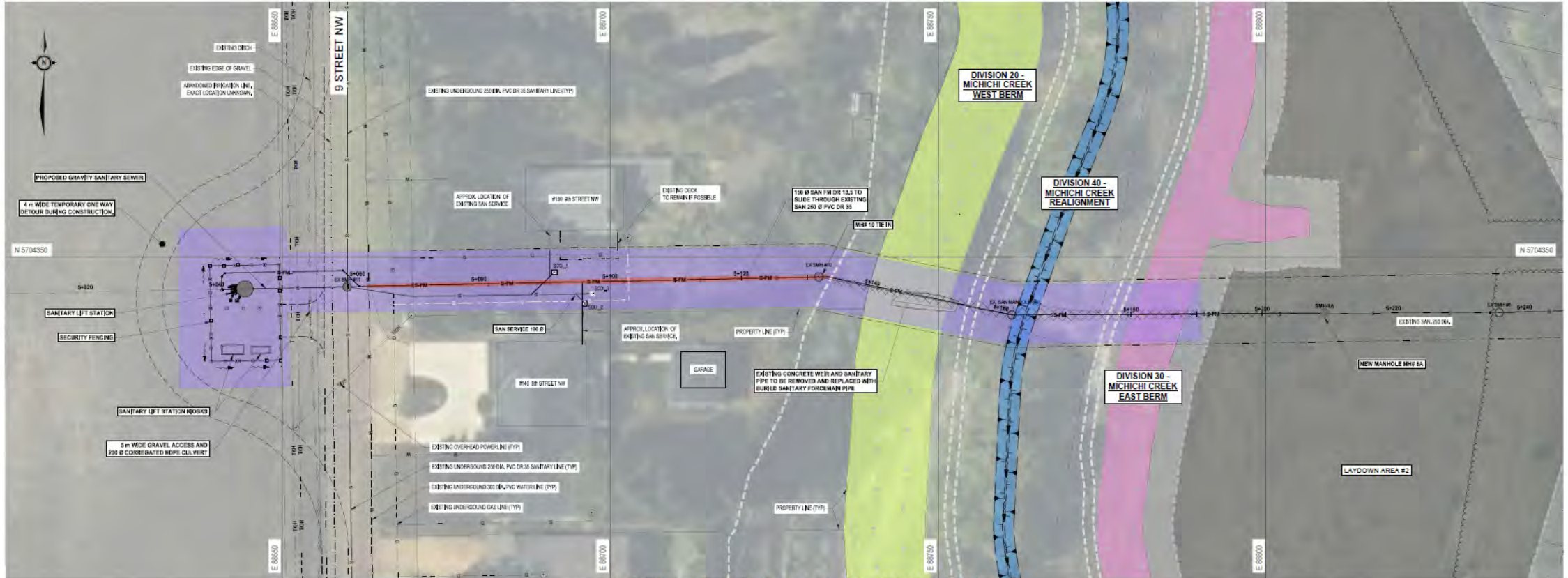


**TYPICAL CROSS-SECTION D: MICHICHI CREEK WEST BERM**  
Scale 1:200 (STA 2+210 TO 2+480)

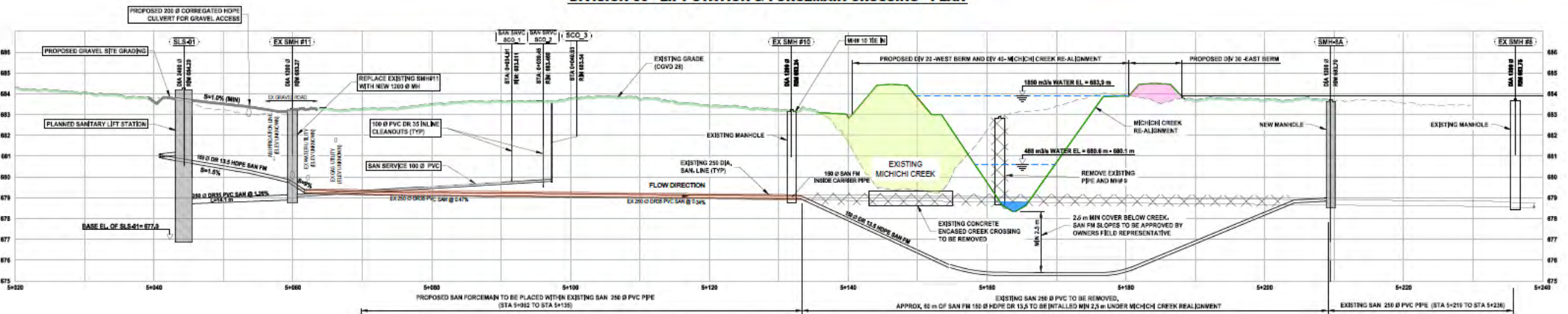






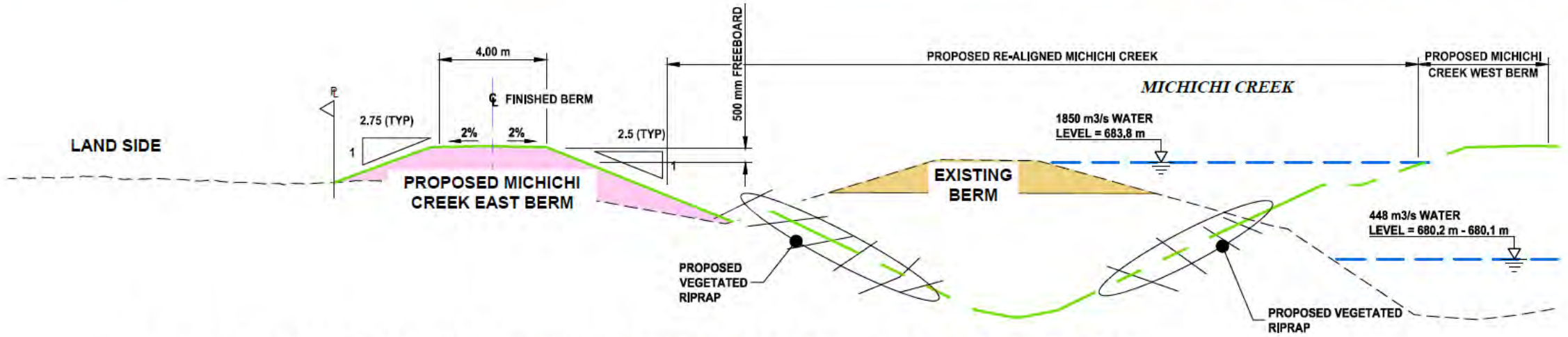


**DIVISION 50 - LIFT STATION & FORCEMAIN CROSSING - PLAN**



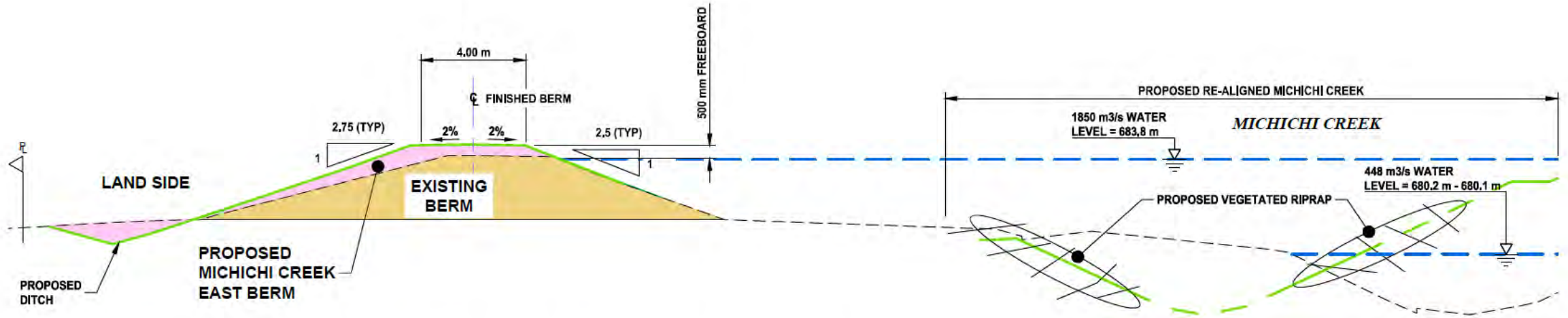
**MICHICHI CREEK LIFT STATION & FORCEMAIN CROSSING - PROFILE**





**TYPICAL CROSS-SECTION A: MICHICHI CREEK EAST BERM NEAR MICHICHI CREEK**

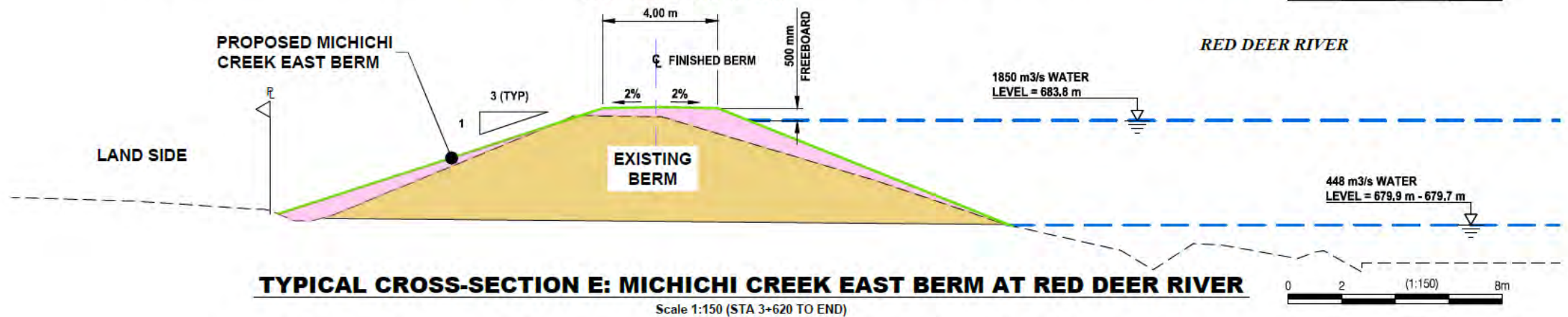
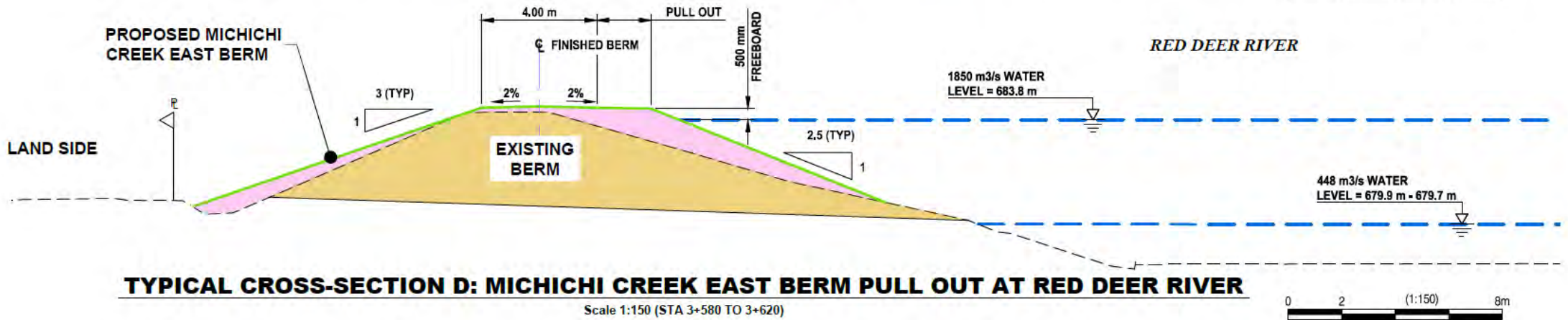
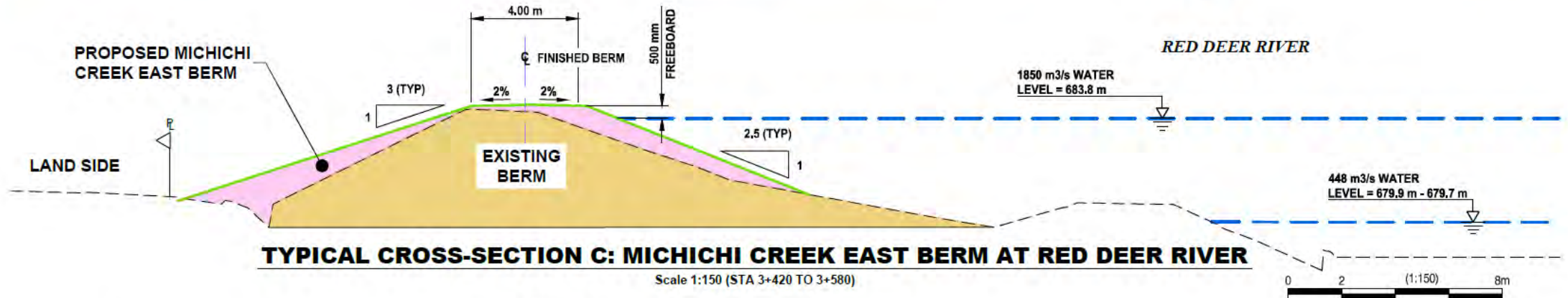
Scale 1:150 (STA 3+000 TO 3+200)



**TYPICAL CROSS-SECTION B: MICHICHI CREEK EAST BERM NEAR MICHICHI CREEK**

Scale 1:150 (STA 3+200 TO 3+420)







# 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

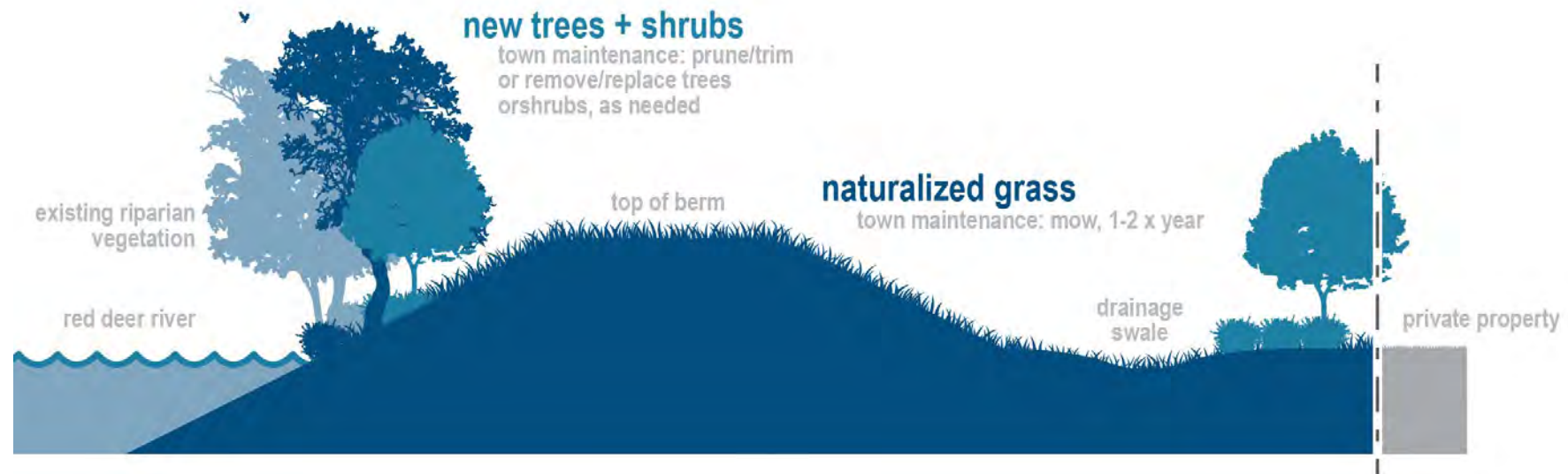
1 x removed  
1 x replaced



## LONG-TERM BERM DESIGN INTENT



Examples of naturalized grass



### new trees + shrubs

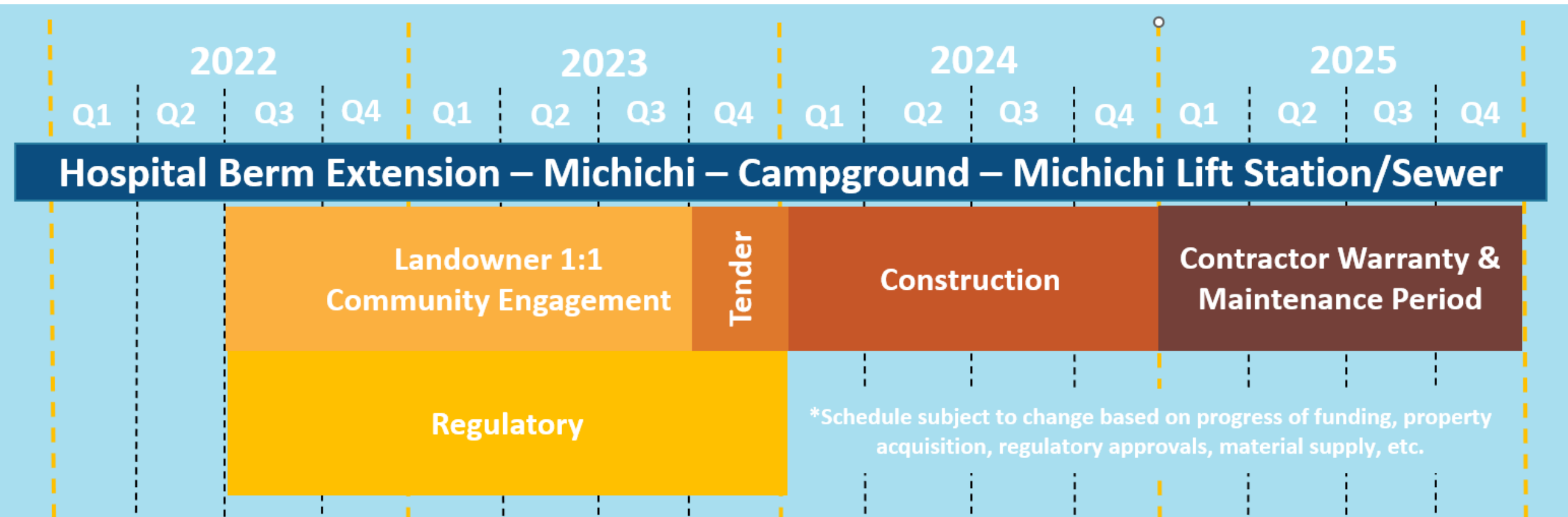
town maintenance: prune/trim  
or remove/replace trees  
or shrubs, as needed

### naturalized grass

town maintenance: mow, 1-2 x year



# North Drumheller Berm - Preliminary Schedule



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

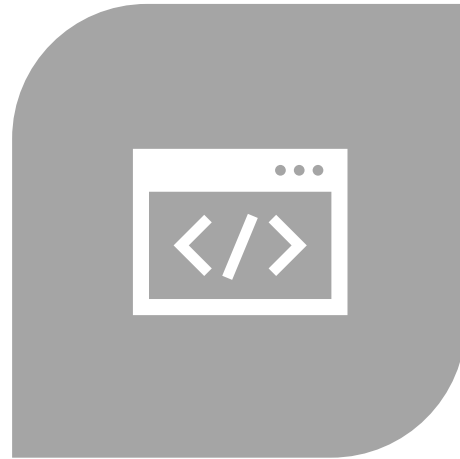
Your safety is our utmost priority, and we appreciate your cooperation in ensuring a secure work environment for everyone.



# Contact Us



EMAIL – FLOOD OFFICE:  
[FLOODREADINESS@DRUMHELLER.CA](mailto:FLOODREADINESS@DRUMHELLER.CA)



WEB:  
[FLOODREADINESS.DRUMHELLER.CA](http://FLOODREADINESS.DRUMHELLER.CA)



EMAIL - COMMUNITY ADVISORY  
[FLOODCOMMITTEE@DRUMHELLER.CA](mailto:FLOODCOMMITTEE@DRUMHELLER.CA)





# Find Us

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[floodreadiness.drumheller.ca](http://floodreadiness.drumheller.ca)



Drumheller Flood Info



@DRMFloodInfo



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# DRUMHELLER FLOOD OFFICE IS FUNDED BY:



Canada 

 DRUMHELLER  
VALLEY

Alberta 