

FIELD REVIEW REPORT - #R001

Address: University of Waterloo
200 University Avenue West
Waterloo, ON N2L 3G1

Project No: 2021-0448-12 Date: November 20,
2025

Project: University of Waterloo -Math 4
Contractor: Gillam Group Inc.

Attn: Tyler MacIntyre

Owner: University of Waterloo
Weather: Sunny, 4 deg C

Review Date(s): November 19, 2025

Attendance: Alexia Kotzambasis (WF), Jithu Thomas (Gillam), Kirk Sommers (Gillam), Tyler MacIntyre (UW)

This review is for the sole purpose of ascertaining general conformance with the design concept and does not relieve the General Contractor, his Sub-Contractors, or Agents from responsibilities for code, by-law, or design requirements as described in the contract documents or as required by the local building authorities.

This review was carried out in accordance with the performance standards of the Professional Engineers of Ontario. Any noted deficiencies are based on the work that was observed during this review, but it does not preclude the responsibility of the Contractor for correction of all deficiencies whether noted or not in this report.

GENERAL PROGRESS & ITEMS REVIEWED

- R001-1 The South and West tunnels have been excavated and the south tunnel had mostly completed surface preparation at time of review.
- R001-2 WF noted that there were multiple minor cracks along the surface of the south tunnel. As per specifications, all cracks larger than 1/16" are to be routed a minimum of 1/4" wide and 1/2" deep then caulked with a compatible sealant as per the waterproofing manufacturer's guidelines.
- R001-3 Some of the south tunnel corners were rough and irregular. Rough edges are to be ground smooth with downturns receiving a 1" chamfer such that no sharp protrusions remain.
- R001-4 One area was noted on the south tunnel where a small portion of the original waterproofing remained. All areas of waterproofing are to be ground off to 100% removal.
- R001-5 WF noted that in some areas of the South tunnel, the concrete surface was rougher than the specified CSP 3. Local divots should be filled with specified compatible sealant and a 60mil detail coat over top. Otherwise, the slightly rough area is acceptable.
- R001-6 WF noted a small step on the surface of the South tunnel. This edge should be ground down following a similar process for the specified edge detailing. A sealant cant should be provided for a smooth transition.

DISCUSSIONS WITH CONTRACTOR

- R001-7 Where there are rough surfaces and edges, cracks, or existing material on the concrete surface, appropriate surface preparation measures as discussed previously shall be completed.
- R001-8 At all downturn locations, 600mm of waterproofing down the wall on each side of the tunnel is to be provided in accordance with the WalterFedy Contract Documents.

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R001-9 The West tunnel has a very rough surface and change in elevation where there is a hatch in the tunnel roof. WF recommends that the Contractor arrange for the waterproofing manufacturer to come to site to provide a recommendation of surface preparation under these conditions.

SCHEDULE & NEXT STEPS

- R001-10 Surface preparation to continue on the West tunnel with completion of the preparation expected around November 26th.
- R001-11 Contractor is to await confirmation as to whether to proceed with the specified 240mil high-build waterproofing, or if applying the materials to 120mil is acceptable. Do not proceed with waterproofing work until written confirmation is distributed.

WALTERFEDY

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GENERAL PHOTOS



Photo 1: Example of cracking along the South tunnel roof surface



Photo 2: Condition of some South tunnel downturn corners

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Photo 3: Small portion of original waterproofing remaining at South tunnel (to be ground off)



Photo 4: Rough surface condition of some areas at South tunnel (divots to be filled in, detail coat provided)

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Photo 5: Step on South tunnel surface (grind down and provide sealant cant)



Photo 6: General condition of West tunnel