

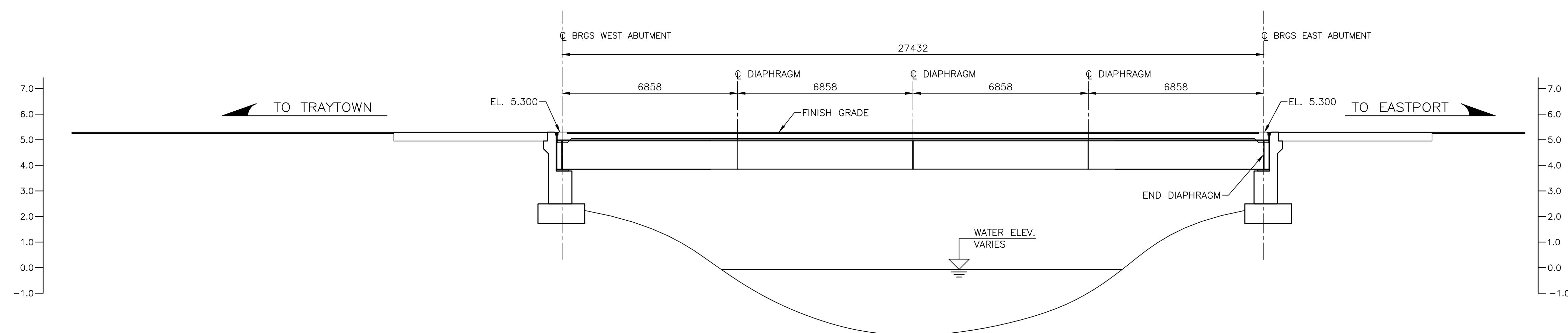
project project

**BROAD COVE
BRIDGE REHABILITATION**

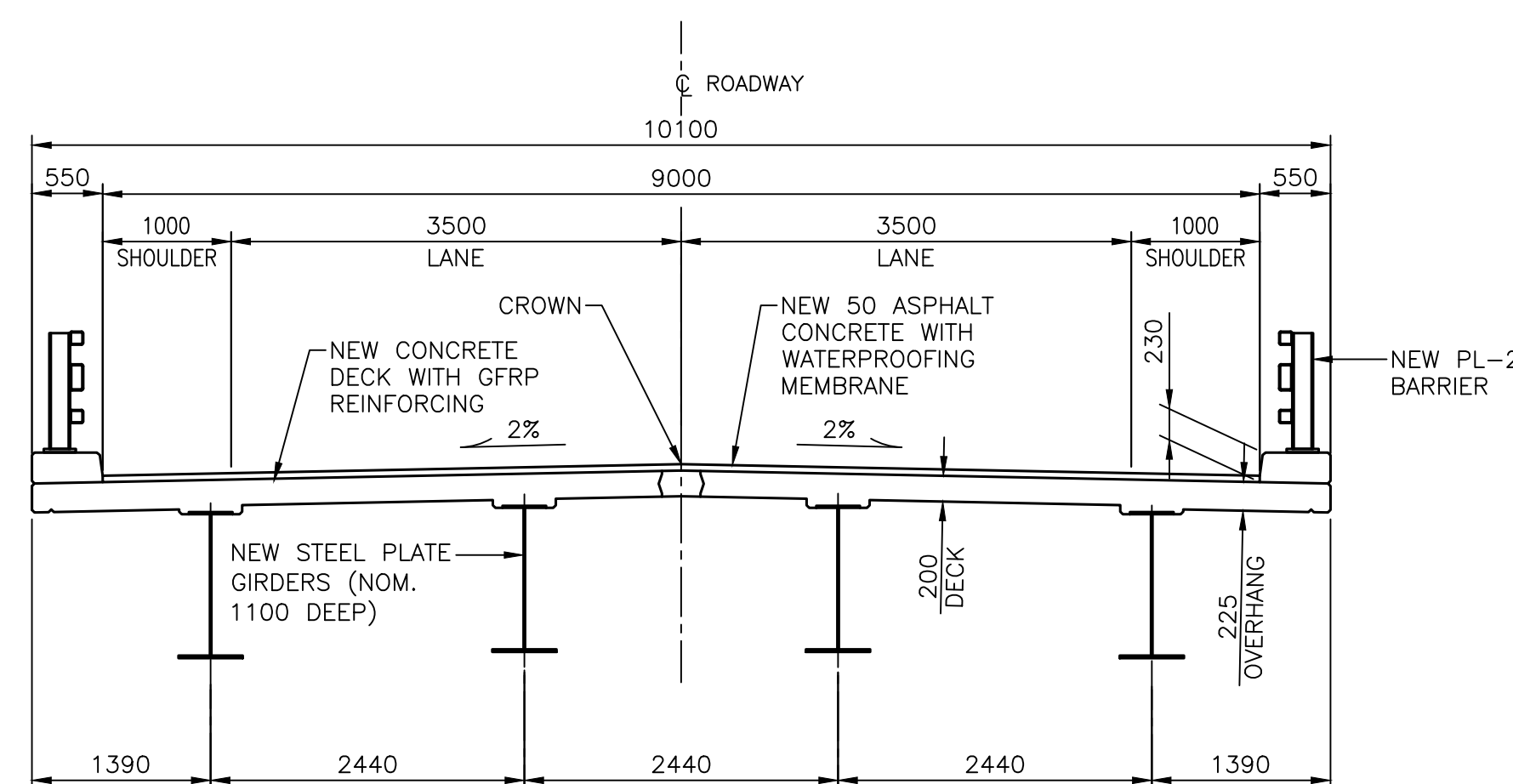
PLAN, ϕ PROFILE
AND CROSS-SECTION
OF REHABILITATED
STRUCTURE

PWGSC Project Manager	Administrateur de projets TPSG
project number	no. du projet

S01



CL PROFILE OF REHABILITATED STRUCTURE (B)



SECTION THRU REHABILITATED STRUCTURE 1



1. ALL DIMENSIONS ARE EXPRESSED IN MILLIMETRES.
2. ALL STATIONS AND ELEVATIONS ARE EXPRESSED IN METRES.

DESIGN CRITERIA:

1. BRIDGE REHABILITATION AS PER CSA-S6-14.
2. DESIGN LIVE LOAD IS CL-625.
3. CONCRETE DESIGN STRENGTH: $f_c = 45 \text{ MPa}$
4. BLACK STEEL REINFORCING TO CONFORM TO CSA G30.18-M GRADE 400W.
5. ULTIMATE TENSILE STRENGTH FOR STRAIGHT GFRP REINFORCING: $f_{FRP} = 1184 \text{ MPa}$ IN ACCORDANCE WITH CSA S806.
6. SPECIFIED MODULUS OF ELASTICITY FOR GFRP REINFORCING: $E_{FRP} = 62.6 \text{ GPa}$
7. STRUCTURAL STEEL TO CONFORM TO:
 - CAN/CSA G40.20/G40.21, GRADE 350AT, CATEGORY 3 FOR ALL STRUCTURAL STEEL WITH THE EXCEPTION OF SECONDARY MEMBERS COMPRISED OF ROLLED SHAPES.
 - CAN/CSA G40.20/G40.21, GRADE 350A, FOR ALL ROLLED BEAMS, ANGLES AND PINTLES.