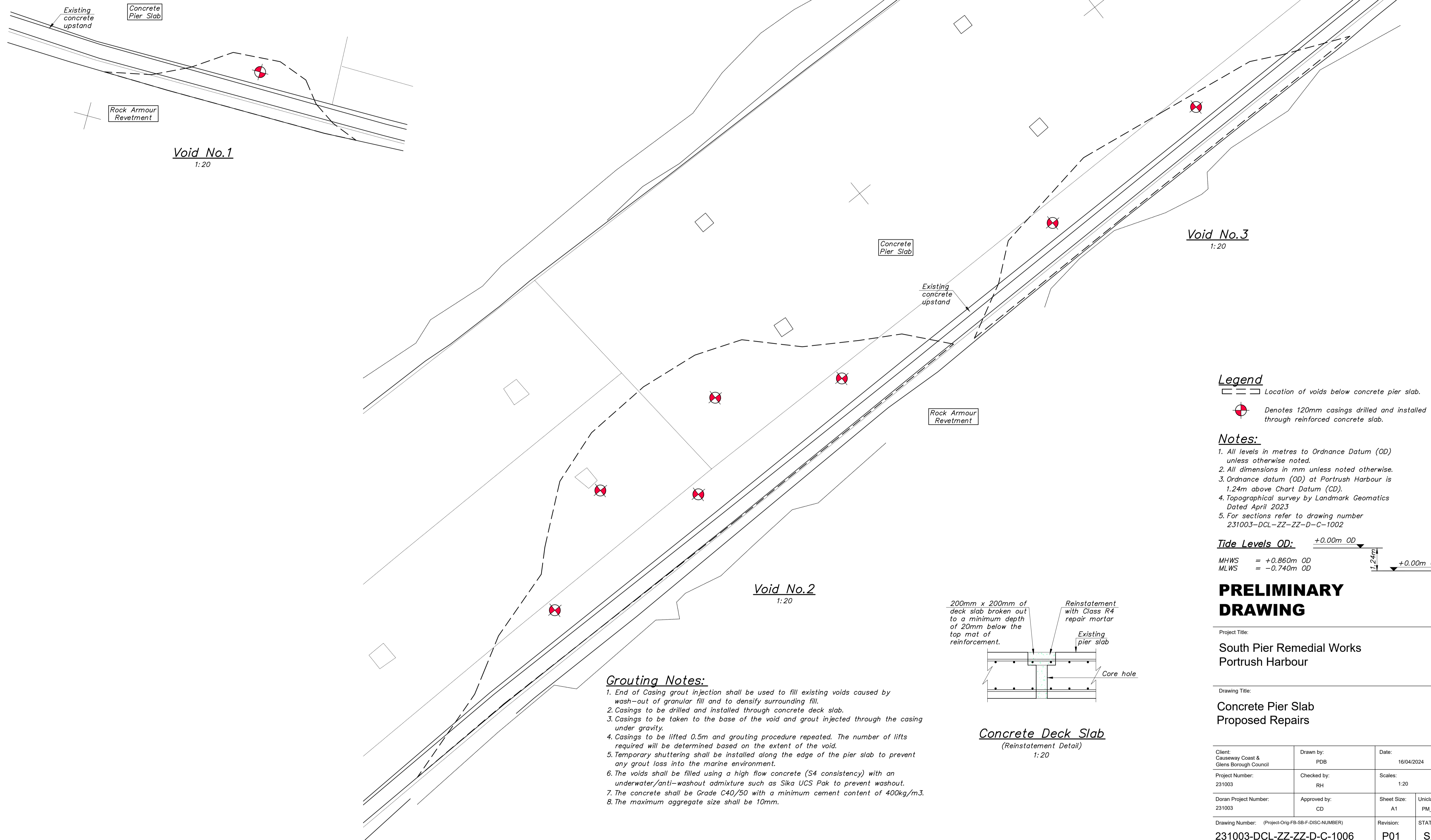
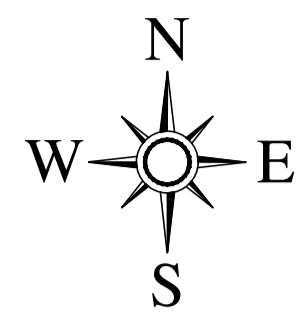


Rev	Date	By	Check	Details	Appr.
P01	25/04/24	PDB	RH	First Issue	CD



Legend

- Location of voids below concrete pier slab.
- Denotes 120mm casings drilled and installed through reinforced concrete slab.

Notes:

- All levels in metres to Ordnance Datum (OD) unless otherwise noted.
- All dimensions in mm unless noted otherwise.
- Ordnance datum (OD) at Portrush Harbour is 1.24m above Chart Datum (CD).
- Topographical survey by Landmark Geomatics Dated April 2023
- For sections refer to drawing number 231003-DCL-ZZ-ZZ-D-C-1002

Tide Levels OD:

MHWS	= +0.860m OD
MLWS	= -0.740m OD

Vertical scale: +0.00m OD, +0.00m CD, 1.24m

PRELIMINARY DRAWING

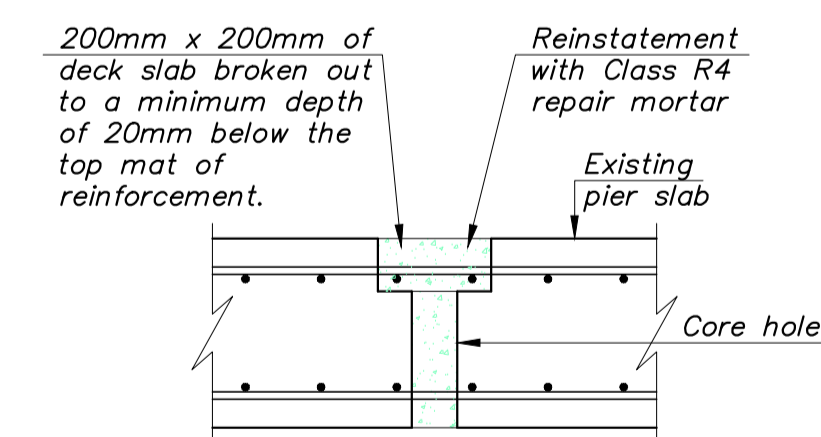
Project Title:
**South Pier Remedial Works
 Portrush Harbour**

Drawing Title:
**Concrete Pier Slab
 Proposed Repairs**

Client: Causeway Coast & Glens Borough Council	Drawn by: PDB	Date: 16/04/2024
Project Number: 231003	Checked by: RH	Scales: 1:20
Doran Project Number: 231003	Approved by: CD	Sheet Size: A1 Uniclass: PM_40_40
Drawing Number: 231003-DCL-ZZ-ZZ-D-C-1006	Revision: P01	STATUS: S2

Grouting Notes:

- End of Casing grout injection shall be used to fill existing voids caused by wash-out of granular fill and to densify surrounding fill.
- Casings to be drilled and installed through concrete deck slab.
- Casings to be taken to the base of the void and grout injected through the casing under gravity.
- Casings to be lifted 0.5m and grouting procedure repeated. The number of lifts required will be determined based on the extent of the void.
- Temporary shuttering shall be installed along the edge of the pier slab to prevent any grout loss into the marine environment.
- The voids shall be filled using a high flow concrete (S4 consistency) with an underwater/anti-washout admixture such as Sika UCS Pak to prevent washout.
- The concrete shall be Grade C40/50 with a minimum cement content of 400kg/m³.
- The maximum aggregate size shall be 10mm.



Concrete Deck Slab
 (Reinstatement Detail)
 1:20