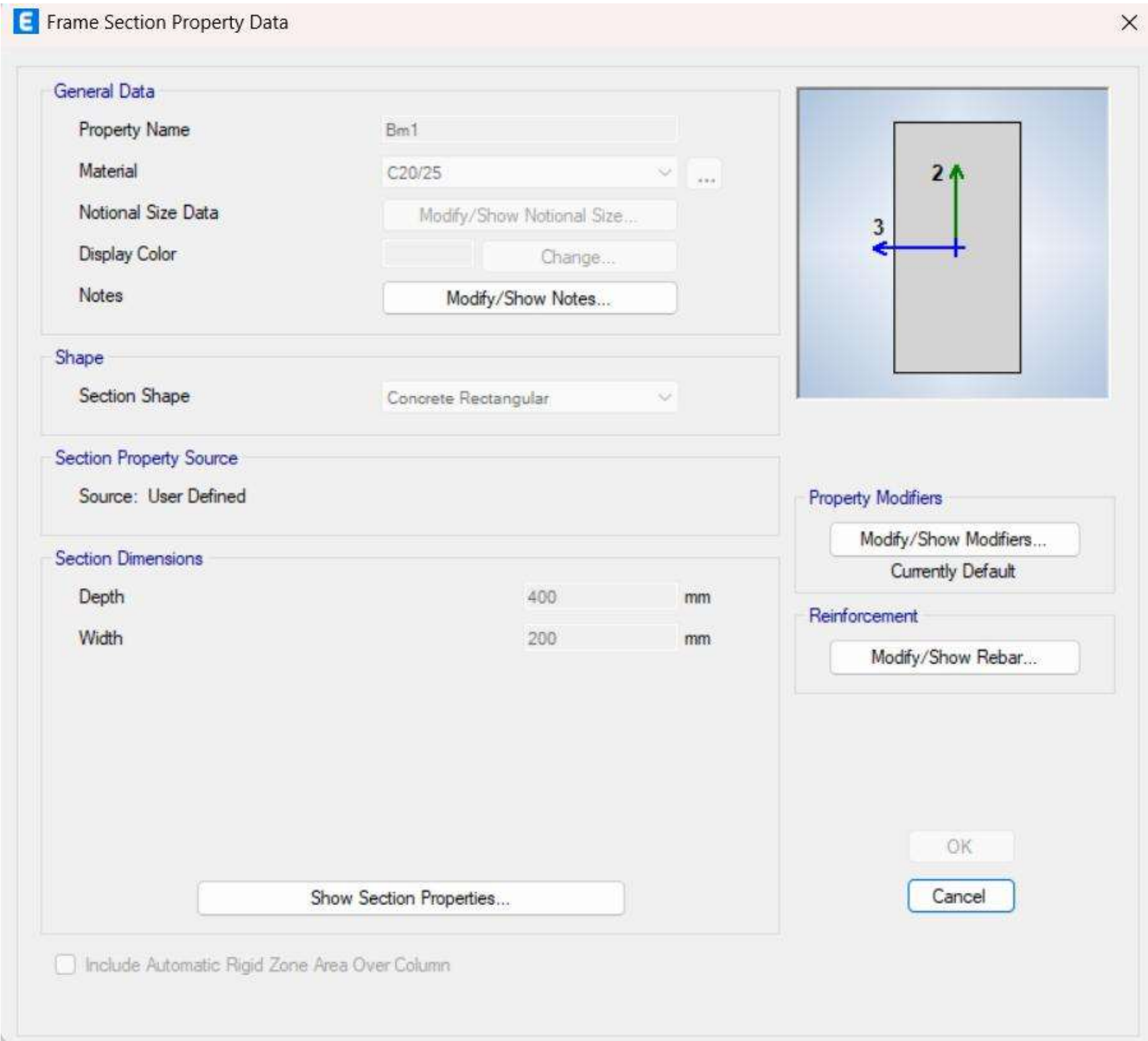
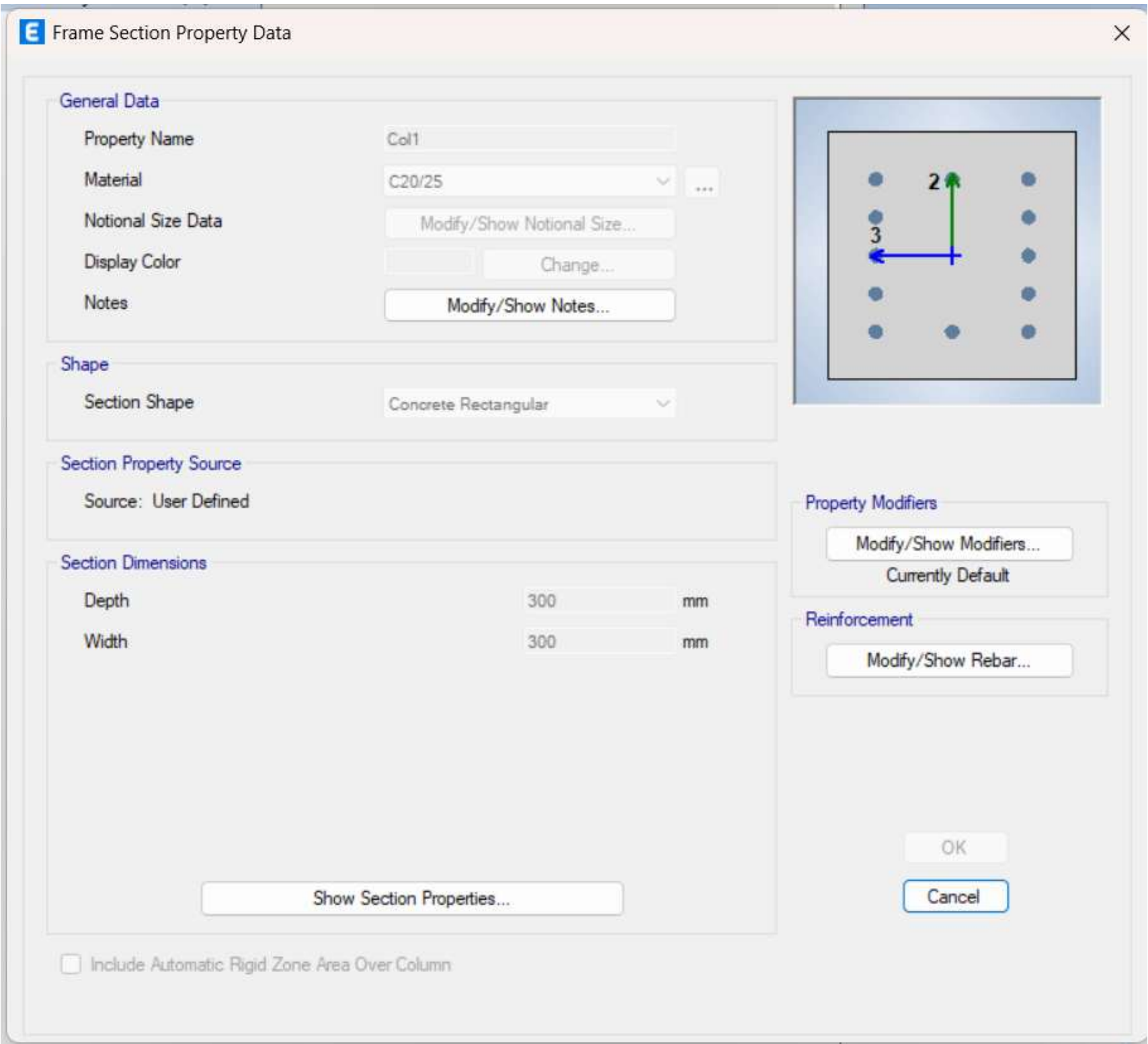


I used C20/25 Concrete for the whole structure:

I used beam sections of 400 by 200 across the whole structure for uniformity and ease of construction



I used 300*300 columns across the whole structure for symmetry



I loaded the tank as a deadload but named it finishes. The load was gotten from the manual load takedown plus an additional 1.5kN/m² to account for other finishes. I assigned a live load of 1kN/m² to account for periodic access to the tank.

Shell Uniform Load Set Data

×

Uniform Load Set Name

shell loadset 1

Load Set Loads

Load Pattern	Load Value (kN/m²)
Live	1
Finishes	30.5

Add

Delete

Note: Loads are in the gravity direction.

OK

Cancel

I considered both serviceability and ultimate limit state for the design:

Load Combinations

×

Combinations

SLS

ULS

Click to:

Add New Combo...

Add Copy of Combo...

Modify/Show Combo...

Delete Combo

Add Default Design Combos...

Convert Combos to Nonlinear Cases...

OK

Cancel

I proceeded to set up the grid and story system in accordance with the initial design

