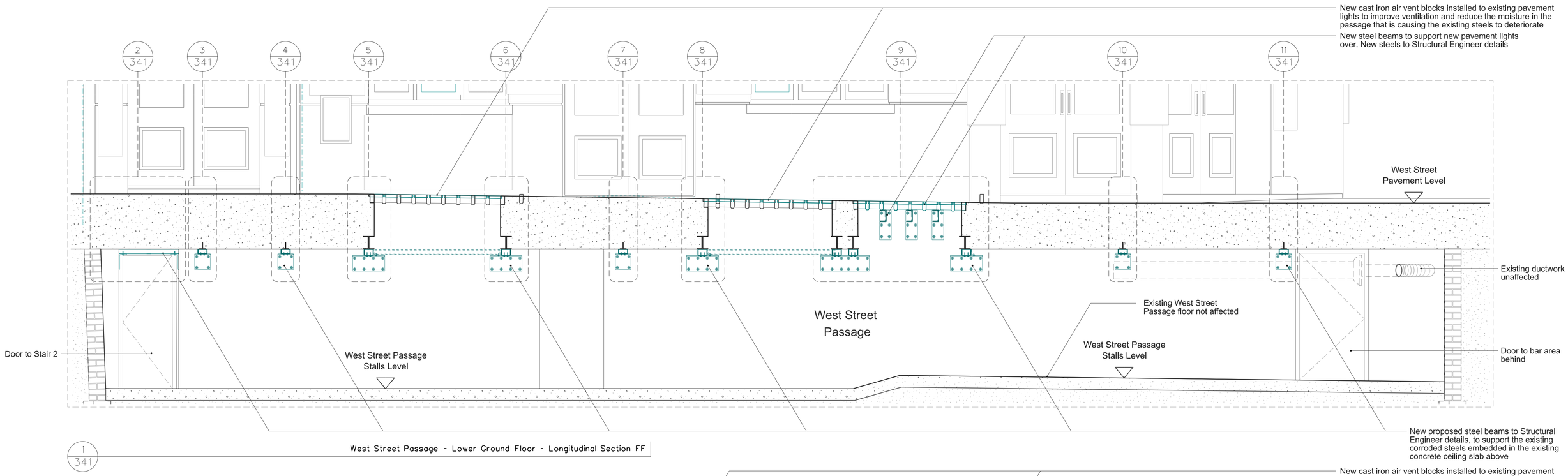
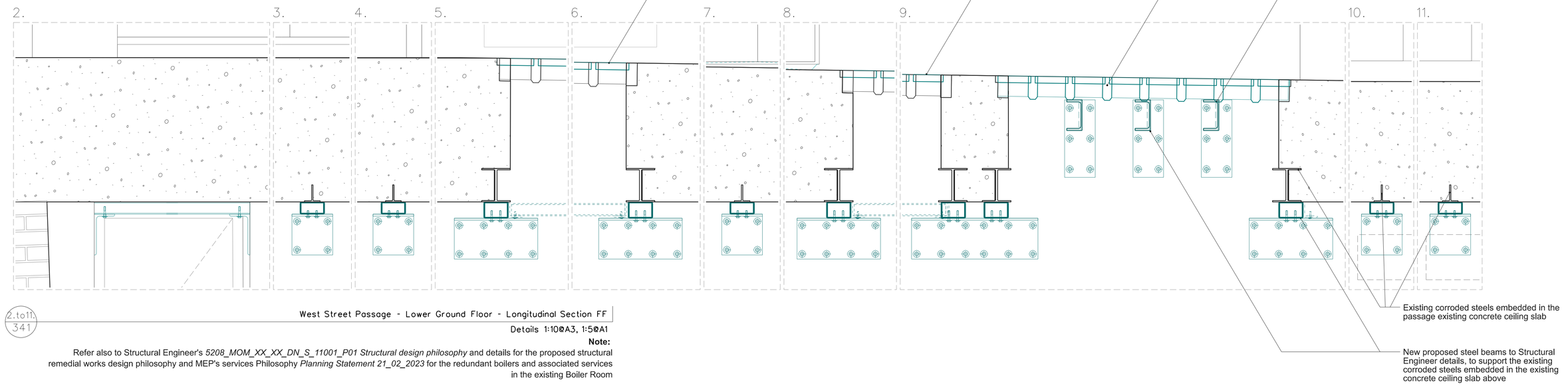


1 341 West Street Passage - Lower Ground Floor - Longitudinal Section FF



2.to11. 341 West Street Passage - Lower Ground Floor - Longitudinal Section FF

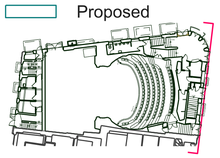
Details 1:10@A3, 1:5@A1

Note:

Refer also to Structural Engineer's *5208_MOM_XX_XX_DN_S_11001_P01 Structural design philosophy* and details for the proposed structural remedial works design philosophy and MEP's services Philosophy *Planning Statement 21_02_2023* for the redundant boilers and associated services in the existing Boiler Room

Key

- Existing
- Existing demolished
- Proposed



Philosophy of the Remedial Works to the West Street Passage

The West Street passage runs at Lower Ground Floor level along the front of the Ambassadors Theatre, under the public pavement on West Street.
Within the passage, the concrete slab covering the bottom flanges of the existing steels had completely spalled due to the corrosion expansion of the steel beams. Hence, the structural integrity of the steel beams - and thereby the public pavement floor as a whole - had been compromised and can't be relied on anymore.
The cause of the corrosion is water ingress, in combination with the lack of ventilation (as the steels are encased in concrete). This might have been further exacerbated by the the clinker concrete typically used in those days: when the clinker concrete gets wet it creates a strong acidity which affects the steel.
The structural design philosophy for the remedial works sets out to make the structure safe again whilst balancing this with practical restraints. New steel beams are proposed which sit below the existing ones, taking over their support function. Putting these beams in place with a significant level of corrosion protection (by galvanising) will ensure the correct level of support is achieved again. The insertion of the steel beams could be reversed at a later date if it is ever decided to replace the full slab overhead. The new steel beams will be as shallow as possible, not to affect too much the headroom within the passage.

THE CONTRACTOR IS TO CHECK AND VERIFY ALL BUILDING AND SITE DIMENSIONS, LEVELS AND SEWER INVERT LEVELS AT CONNECTION POINTS BEFORE WORK STARTS

THIS DRAWING IS TO BE READ AND CHECKED IN CONJUNCTION WITH ENGINEERS AND OTHER SPECIALIST DRAWINGS

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0 1m 2m

Rev:	Date:	Description
/	06/03/23	Planning

Job: 2201 Ambassadors Theatre

Client: Ambassador Theatre Group

Drawing: West Street Passage Section Details

Drawing no: 2201-3-341 Rev: Status: Planning

Scale: 1:50@A3, 1:25@A1 Date: 06/03/23

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