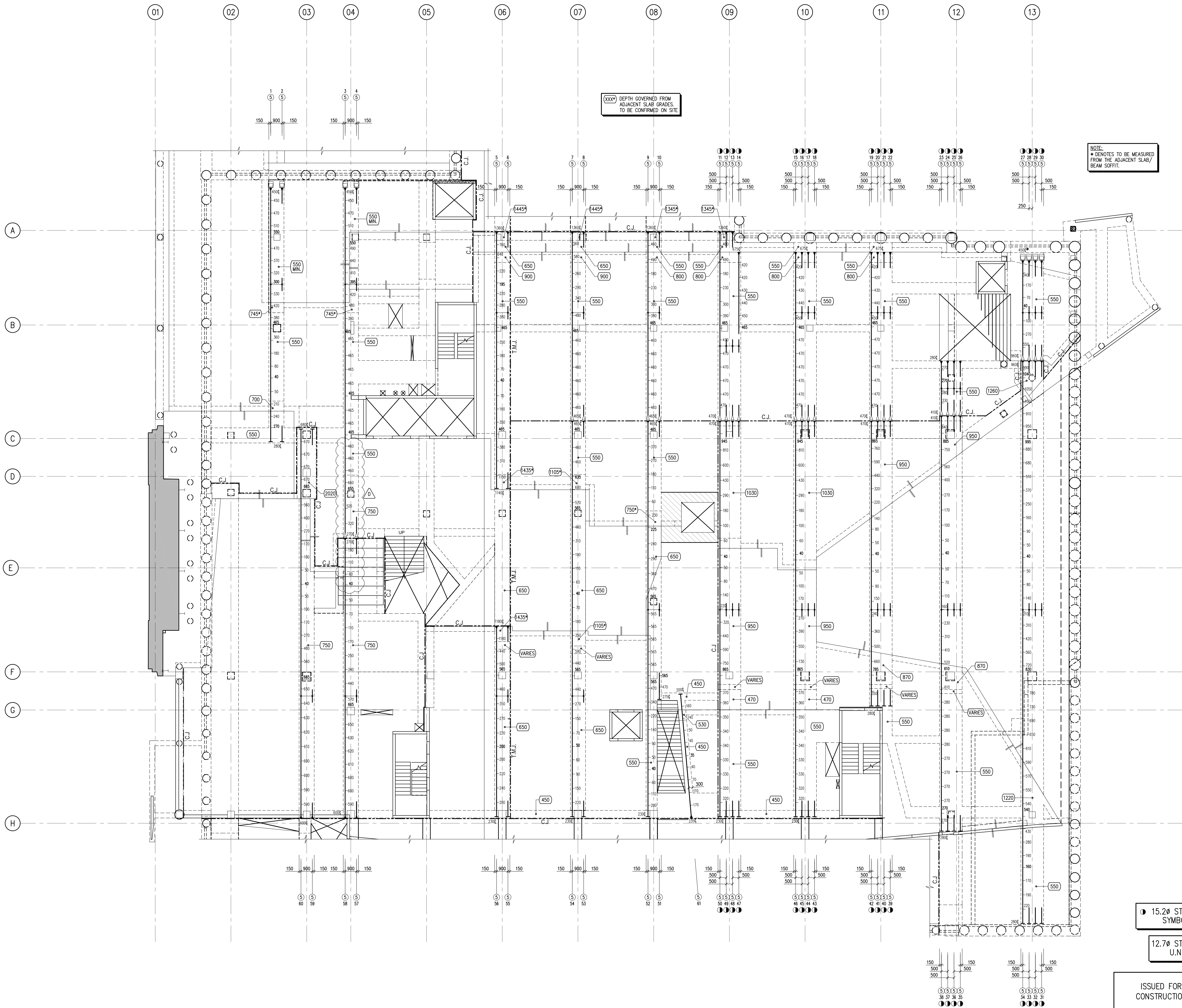




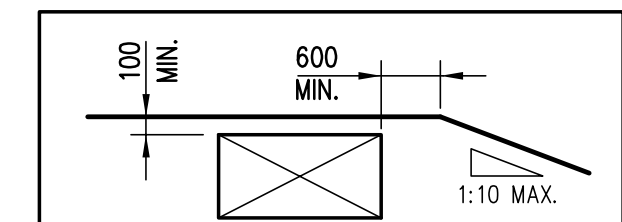
- POST-TENSIONING NOTES
1. All stressing workmanship and materials shall comply with S.A.A. Concrete Structures Code A.S. 3600-2001.
 2. Following completed installation of anchorages and tendons, care must be taken to prevent damage or movement of any of the components. Particular care shall be taken during placing and compacting of concrete around anchorages to ensure that full compaction is achieved and that no part of the anchorage or tendon or their ancillaries is moved from its correct position.
 3. Anchorage designation.

Tendon designation.
tendon no. no. of strands.
 4. Dimensions indicated are to the underside of the duct from the soffit of the slab except at the anchorage, where dimensions are to the centreline of the tendon. Tendons shall be located to a vertical tolerance of ± 5 mm.
 5. Wherever there is conflict between a tendon and any kind of conduit or reinforcement, the tendon profile shall govern.
 6. The stated tendon spacing is indicative only. In the event of any constraint to the post-tensioning works, the spacing shall be adjusted accordingly to suit the site condition.

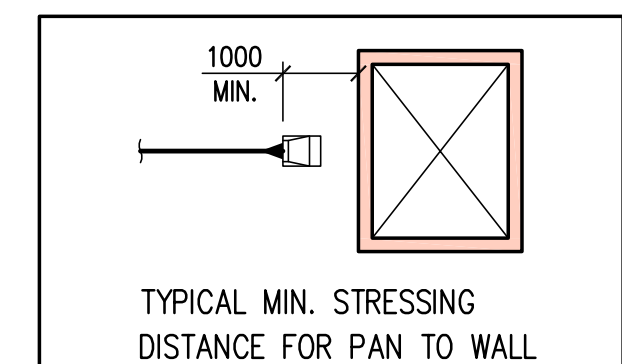
- GENERAL NOTES:
7. These drawings shall be read in conjunction with the applicable Architect's, Consultant's and Builder's drawings.
 8. All dimensions relevant to setting out shall be verified by the Builder before construction is commenced.
 9. Formwork and scaffolding shall be extended beyond tendon anchorage point to provide space for stressing operations. Safety hoarding for stressing shall be provided.
 10. Concrete mix design and curing shall be to Structural Engineer's specification.
 11. Stripping of formwork and backpropping details to Structural Engineer's specification.

- 15.2mm STRANDS
12. 15.2 mm nominal diameter strands shall be seven wire super grade, stress relieved, low relaxation to A.S. 4672.1
Minimum breaking load = 250kN
13. Jacking force per strand shall be 212.5kN (85% minimum breaking load) UNO.
14. Stressing sequence UNO.
- | Initial stress | At minimum 24 hours and concrete strength = 20MPa jack each strand to 50kN |
|----------------|--|
| Final stress | After 5 days minimum and at concrete strength = 25MPa jack each strand to 212.5kN UNO. |

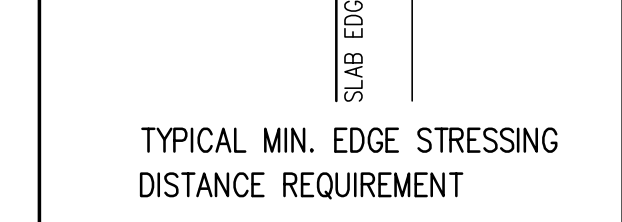
- 12.7mm STRANDS
15. 12.7 mm nominal diameter strands shall be seven wire super grade, stress relieved, low relaxation to A.S. 4672.1
Minimum breaking load = 154kN
16. Jacking force per strand shall be 156kN (85% minimum breaking load) UNO.
17. Stressing sequence UNO.
- | Initial stress | At minimum 24 hours and concrete strength = 20MPa jack each strand to 40kN |
|----------------|--|
| Final stress | After 5 days minimum and at concrete strength = 25MPa jack each strand to 156kN UNO. |



TYPICAL TENDON DETAIL AT PENETRATIONS & OPENINGS



TYPICAL MIN. STRESSING DISTANCE FOR PAN TO WALL



TYPICAL MIN. EDGE STRESSING DISTANCE REQUIREMENT

THE INFORMATION USED TO PRODUCE THIS SHOP DRAWING WAS TAKEN FROM IRWIN CONSULTING ENGINEERS DWG'S: S051 (REV F) & S054 (REV D)

Rev	Date	Drawn	Checked	Description
D	22.08.13	B.T.	-	CONSTRUCTION JOINT REVISED, TENDONS ADJUSTED TO SUIT.
C	21.08.13	B.T.	-	TENDON ADDED, AS BUILT ON SITE
B	02.08.13	B.T.	-	CONSTRUCTION JOINT REVISED, TENDONS REVISED TO SUIT.
A	02.08.13	B.T.	-	ISSUED FOR CONSTRUCTION.
I	30.07.13	B.T.	-	RE-ISSUED FOR APPROVAL.
O	30.07.13	B.T.	-	ISSUED FOR APPROVAL.

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Project: UNIVERSITY OF MELBOURNE PARKVILLE CAMPUS

Title: GROUND FLOOR POST TENSIONING LAYOUT PLAN

Scale: 1:100

Authorised: -

Date: JULY '13

Project No: 3020525

Plot Date: -

15.2Ø STRANDS SYMBOL

12.7Ø STRANDS U.N.O

ISSUED FOR CONSTRUCTION