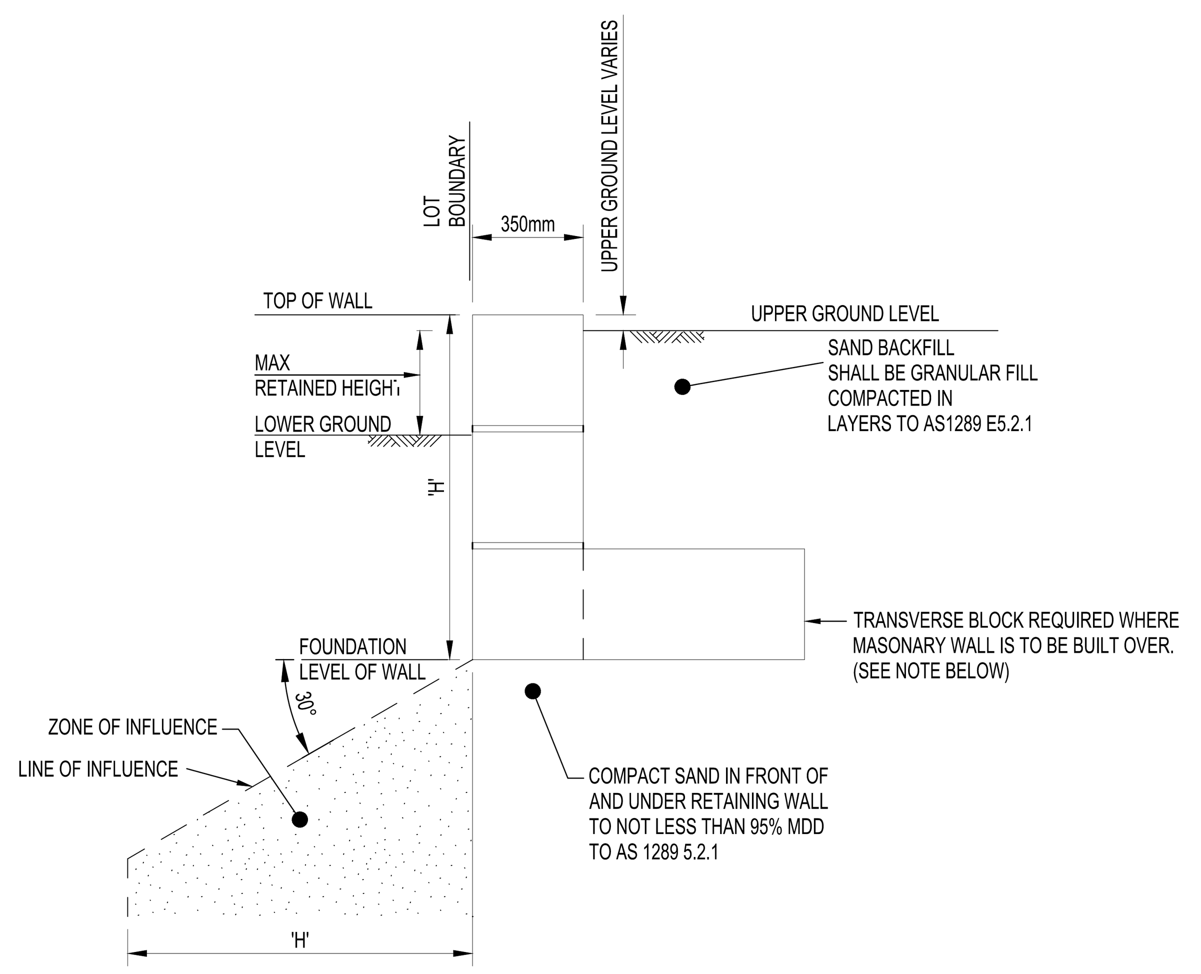
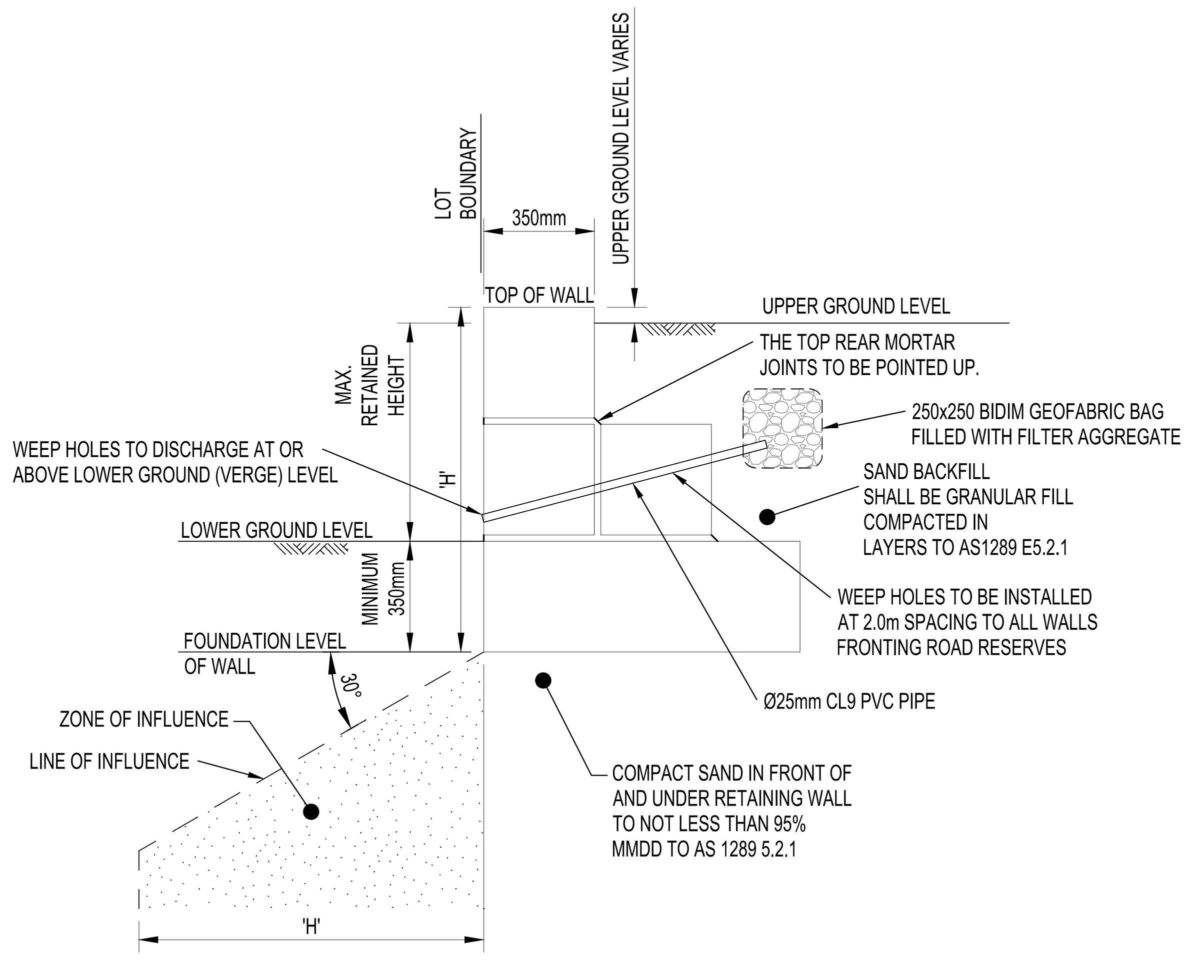
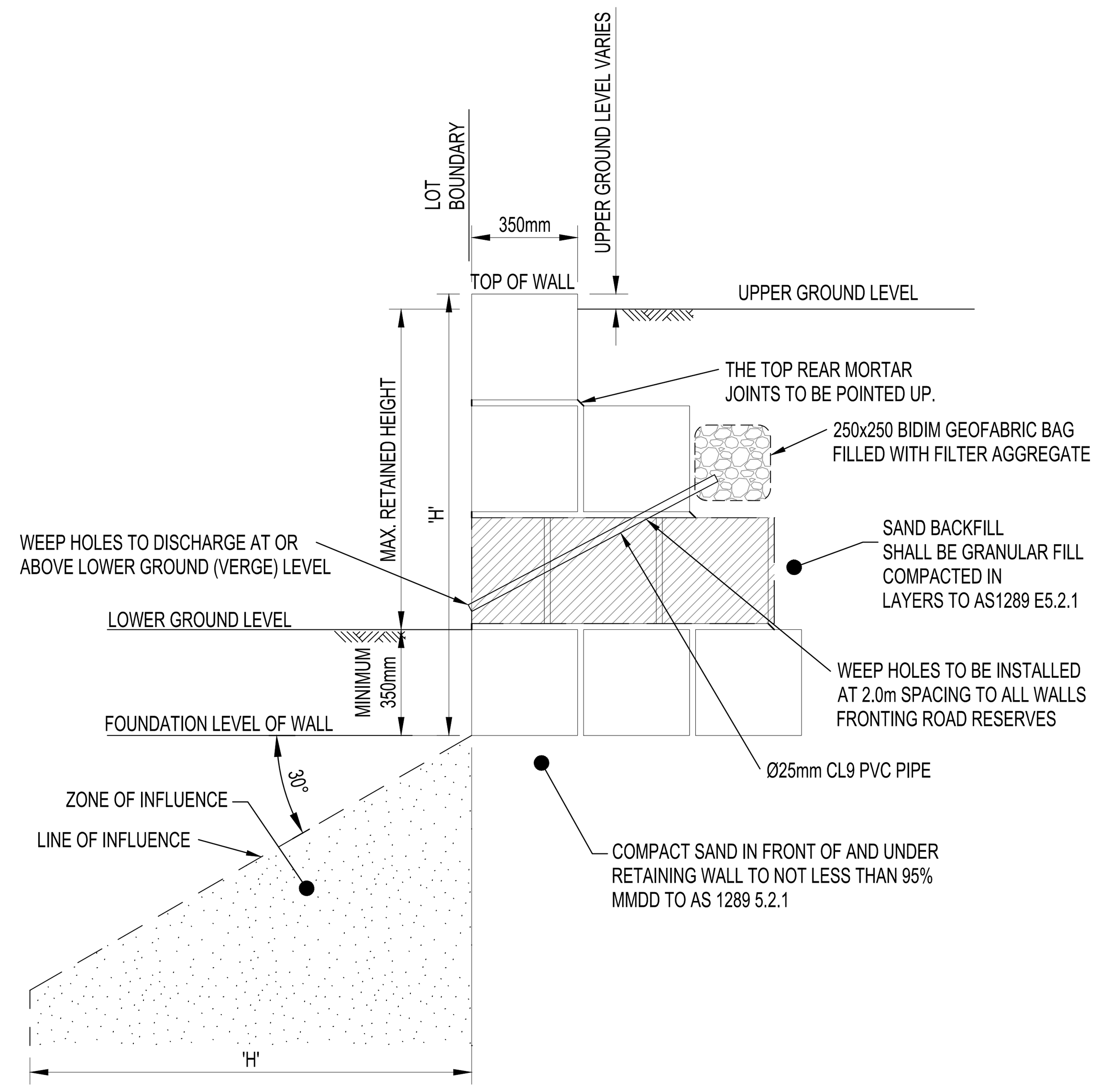
1 2 3 4 5



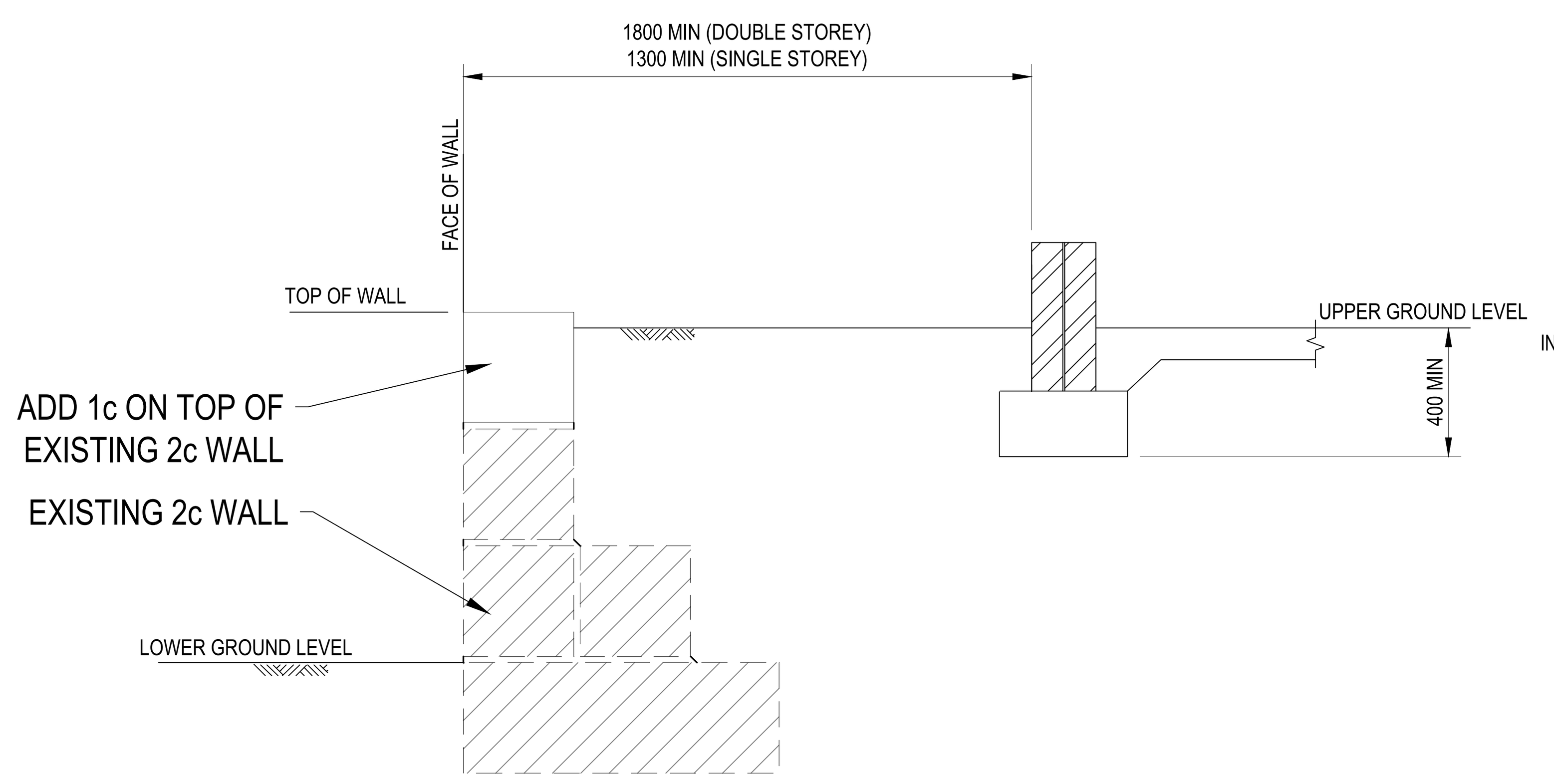
ONE COURSE WALL PROFILE
SCALE 1:20 (380 MAX. RETAINED HEIGHT)



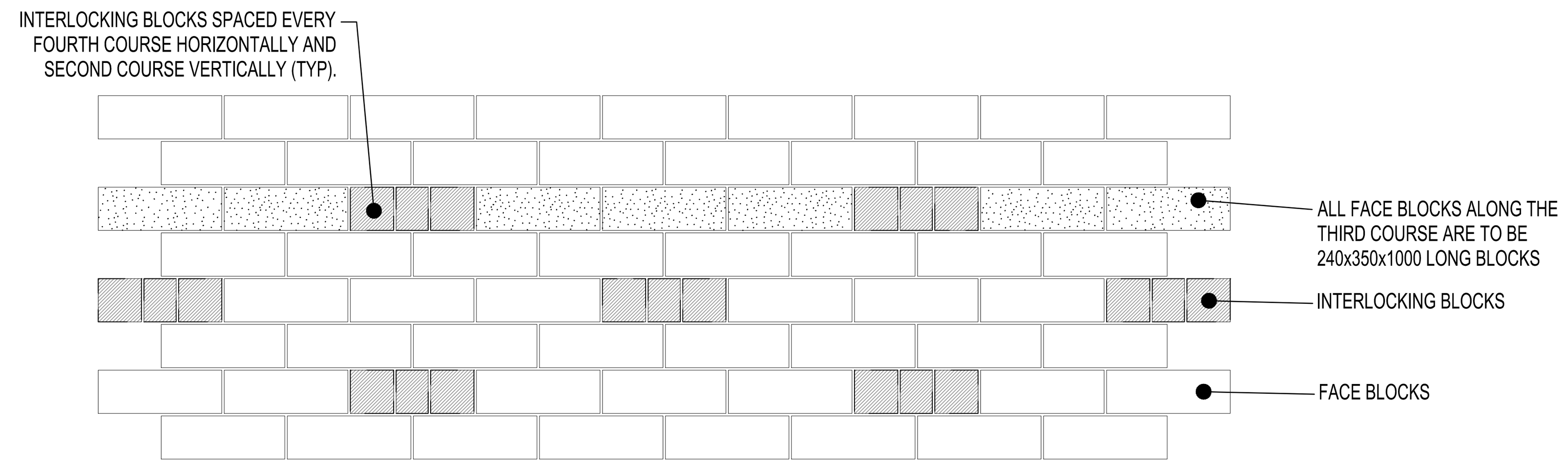
TWO COURSE WALL PROFILE
SCALE 1:20 (890 MAX. RETAINED HEIGHT)



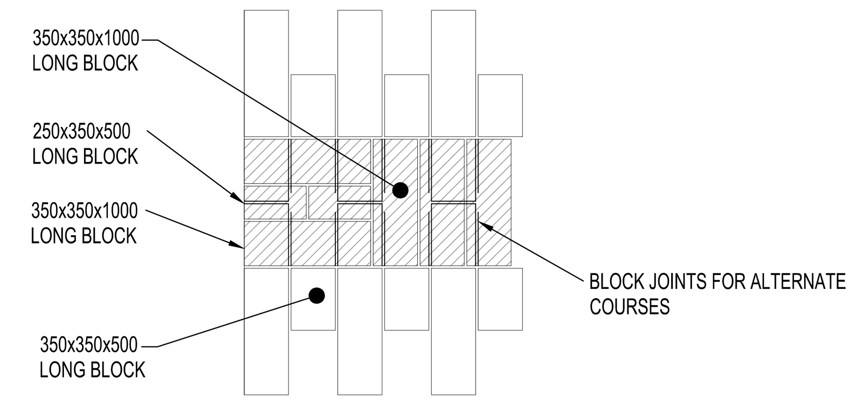
THREE COURSE WALL PROFILE
SCALE 1:20 (1260 MAX. RETAINED HEIGHT)



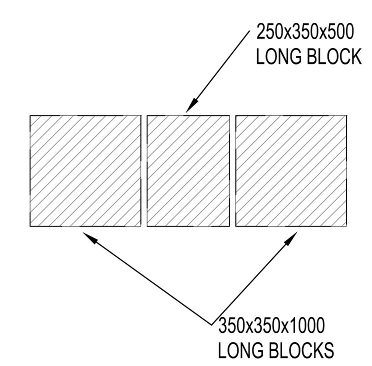
LOT 326 EXISTING WALL MODIFICAITON
SCALE 1:20



TYPICAL WALL ELEVATION
SCALE 1:50



INTERLOCKING BLOCK LAYOUT PLAN
SCALE 1:50



INTERLOCKING BLOCK DETAIL
SCALE 1:20

DESIGN LOAD PARAMETERS

1. SINGLE STOREY DWELLING - MIN. 1.0m SETBACK FROM LOT BOUNDARY ASSUMED DEAD LOAD 15.4kN/m (UNLESS NOTED OTHERWISE).
2. DOUBLE STOREY DWELLING - MIN. 1.5m SETBACK FROM LOT BOUNDARY ASSUMED DEAD LOAD 54.4kN/m (UNLESS NOTED OTHERWISE).
3. MAX. LIVE LOAD SURCHARGE BEHIND WALL - 5kPa (INCLUDING DWELLINGS).
4. 1.8m MAXIMUM HIGH LIGHT WEIGHT SOLID COLORBOND FENCE OR EQUIVALENT.
5. ASSUMED SAND FRICTION ANGLE IS 33 DEGREES. NOTIFY ENGINEER IF THE GEOTECHNICAL REPORT FOR THE SITE INDICATES A LOWER SITE SAND FRICTION ANGLE.
6. PARAPET WALLS FOR DWELLINGS TO TWO STORIES AS PER R CODE EXTENT AND HEIGHTS LIMITS ARE PERMITTED.

1:50 1 0.5 0 1 2 A1
1:100 A3
1:20 0.2 0 0.2 0.4 0.6 0.8 1 A1
1:40 A3

NOTES

1. REFER TO EARTHWORKS PLAN AND WALL LONG SECTIONS FOR UPPER AND LOWER GROUND LEVELS.
2. ALL FACE BLOCKS TO BE 350x350x1000 LONG RECONSTITUTED LIMESTONE OR LATERITE BLOCKS, EXCEPT ALONG THIRD COURSE WHERE 240x350x1000 LONG BLOCKS ARE TO BE USED. ALL BLOCKS BEHIND FACE OF WALL TO BE 350x350x1000 LONG RECONSTITUTED LIMESTONE OR CONCRETE BLOCKS. ALL BLOCKS ARE TO BE FULLY JOINTED WITH M3 MORTAR.
3. ALL FENCE POSTS TO BE CORED MINIMUM 250mm INTO THE THIRD COURSE.
4. ALL FACE MORTAR JOINTS TO BE POINTED UP, INCLUDING BELOW GROUND LEVEL.
5. MINIMUM DENSITY OF BLOCKS SHALL BE 1.8 t/m³.
6. ALL BACKFILL TO BE FREE DRAINING STRUCTURAL FILL COMPACTED IN LAYERS TO 95% MMDD IN ACCORDANCE WITH AS 1289. NO RUBBLE BACKFILL IS PERMITTED.
7. AT COMPLETION OF WORKS THE CONTRACTOR SHALL PROVIDE WRITTEN CERTIFICATION THAT ALL WALLS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THESE DETAILS AND THE SPECIFICATION.
8. MINIMUM BLOCK STRENGTH (f'uc) TO BE 2.7 MPa.
9. CONTROL JOINTS IN LONG RUNS OF WALL TO BE AT 25-35m c/c ON A STRAIGHT RUN OF WALL AND AT PIER / BUTRESS INTERSECTION, AT CHANGE IN PLAN ALIGNMENTS MORE THAN 30°, BUILDER TO LOCATE JOINTS AT LOT BOUNDARY LOCATIONS. LAY 1m WIDE STRIP OF GEOFABRIC CENTRAL TO AND FOR FULL HEIGHT OF BACK FACE OF WALL JOINT. PROVIDE CLOSED CELL BACKING ROD, MASTIC SEALANT AND VISUAL MORTAR PACKING TO FRONT EXPRESSED FACE OF JOINT. PROVIDE GALVANISED ABEY EXPANSION TIES OR SIMILAR APPROVED AT JOINT LOCATIONS FOR EACH COURSE.
10. ANTI GRAFFITI COATING TO BE APPLIED TO WALLS EXCEPT FOR FACES BETWEEN LOTS.
11. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL SUBMIT COPIES OF THESE DRAWINGS TO THE LOCAL AUTHORITY TO OBTAIN BUILDING LICENCE AND PAY ALL FEES.
12. CONTRACTOR TO REFER TO GEOTECHNICAL REPORT INCLUDED IN THE SPECIFICATION.
13. 150KPa ALLOWABLE BEARING PRESSURE CAPACITY TO BE ACHIEVED AT THE SANDY SUBGRADE BELOW RETAINING WALL.
14. THE CONTRACTOR SHALL ENSURE THAT THE SOIL PROFILE IN FRONT OF ALL WALLS ARE COMPACTED TO 95% MDD IN ACCORDANCE WITH AS1289. THE MINIMUM CRITICAL ZONE OF SOIL IS A CONTINUOUS ZONE ALONG THE WALL, MEASURING 1m MINIMUM FROM THE FRONT OF THE WALL IN A HORIZONTAL SENSE AND DOWN TO THE LEVEL OF THE UNDERSIDE OF THE LOWEST BLOCK. THE CONTRACTOR SHALL PROVIDE COMPACTION RESULTS TO DEMONSTRATE THAT THIS HAS BEEN ACHIEVED.

ORIGINAL SHEET - ISO A1 COORD - PCG94 DATUM - mAHD

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Notes

LEGEND

INTERLOCKING BLOCKS
(REFER TO SECTIONS AND ELEVATION FOR LOCATIONS)

NOTE:
FOR WALL STABILITY, NO EXCAVATION SHALL TAKE PLACE WITHIN THE ZONE OF INFLUENCE. THIS IS DEFINED AS THE AREA BOUNDED BY THE LINE OF INFLUENCE AS SHOWN AND A VERTICAL LINE PLACED A DISTANCE EQUAL TO THE WALL HEIGHT. ANY EXCAVATION WITHIN THE ZONE OF INFLUENCE WILL REQUIRE CERTIFICATION BY A PRACTISING STRUCTURAL ENGINEER.

NOTE:
ONLY LIGHTWEIGHT COLORBOND EQUIVALENT FENCES MAY BE BUILT OVER THIS PARTICULAR WALL. DEVELOPER TO INCLUDE THIS INTO CONTRACT OF SALE DOCUMENTS OR ADVISE ENGINEER OTHERWISE. MAXIMUM HEIGHT OF FENCE TO BE 1.8m.

I HEREBY CERTIFY THAT THESE WALLS HAVE BEEN DESIGNED TO ACCOMMODATE THE DESIGN LOAD PARAMETERS AS INDICATED IN THE TABLE ABOVE.

SIGNED DATE

NAME (PRACTICING STRUCTURAL ENGINEER FOR STANTEC)

Rev	Issued/Revision	By	Appd	YYYY.MM.DD
0	ISSUED FOR CONSTRUCTION	MCM	STT	2023.10.25
B	LOT 326 WALL DETAIL ADDED	MCM	STT	2023.08.22
A	TENDER AND COUNCIL APPROVAL	MCM	DP	2023.02.07

File Name: CI-208-RW-D1.DWG	MCM	DP	DP	2023.02.07
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Issue Status

CONSTRUCTION ISSUE

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Client/Project Logo

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S & A GALATI

WHISTLING GROVE - STAGE 2

Title
RETAINING WALL STANDARD DETAILS SHEET 1

Project No.	WAPC No.	Scale
301251172	160974 & 162398	AS SHOWN

Revision: 0
Drawing No.: **CI-208-RW-D1**