REINFORCED CONCRETE RETAINING WALL

RW-01:

USE: AS DETAILED IN RETAINING WALL DETAILS.

MUST BE TAKEN DOWN IN MASS CONCRETE TO A DEPTH, WHICH HAS SUITABLE GROUND BEARING CAPACITY/STRATA (GROUND BEARING TAKEN AS 200kN/m²) (MUST BE AGREED BY LOCAL AUTHORITY BUILDING INSPECTOR ON SITE PRIOR TO POURING). WHERE DRAINAGE PASSES THROUGH, FOUNDATIONS TO BE STOPPED 300mm SHORT OF PIPE EACH SIDE AND PRECAST CONCRETE LINTELS FORMED TO SUPPORT MASONRY OVER. WHERE FOUNDATIONS STEP, STEP HEIGHT NO GREATER THAN THE THICKNESS OF THE FOUNDATION AND OVER LAPPED BY TWICE THE HEIGHT OF THE STEP OR 300mm WHICHEVER IS GREATER.

MASS CONCRETE:

UNLESS OTHERWISE STATED:

DESIGNATE MIX

FND3

OR

DESIGNED MIX

ALL CONCRETE TO BE GRADE	= C28/35N/mm²
NOMINAL MAXIMUM SIZE OF AGGREGATE	= 20mm
MINIMUM CEMENT CONTENT	= 380 kg/m³
SLUMP	= S3
MAXIMUM FREE WATER/CEMENT RATIO	= 0.40
CHLORIDE CONTENT CLASS	= N/A
ALLOWABLE CEMENT COMBINATIONS	= CHEM 1, SRPC, IIA, IIB-S, IIB-V, IIB+SR, IIIA, IIIASR, IIIB, IIIB+SR, IVB-V, (DC-1)

RATE OF SAMPLING FOR COMPRESSIVE STRENGTH COMPRESSIVE STRENGTH TESTING: ONE SAMPLE PER 25m³ BUT NOT LESS THAN ONE FOR EACH DAY OF USE.

READY MIXED CONCRETE

MUST BE USED FOR ALL REINFORCED CONCRETE AND MUST BE OBTAINED FROM A PLANT WHICH HOLDS A CURRENT CERTIFICATE OF ACCREDITATION UNDER THE QUALITY SCHEME FOR READY MIXED CONCRETE. EACH MIX MUST BE OBTAINED FROM ONLY ONE SOURCE UNLESS OTHERWISE APPROVED. CONFIRM NAME AND ADDRESS OF DEPOT(S) TO SE BEFORE ANY CONCRETE IS DELIVERED. RETAIN ALL DELIVERY NOTES FOR INSPECTION.

STEEL REINFORCEMENT

UNLESS OTHERWISE STATED:

BAR/MESH LAP LENGTHS TO BE MINIMUM:

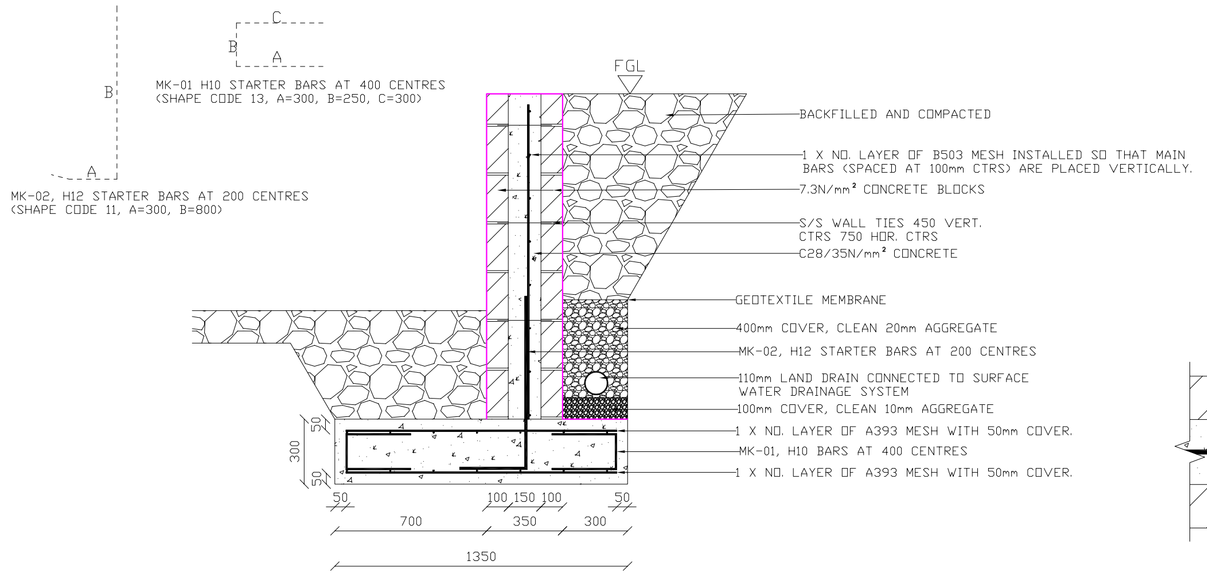
10mm BAR = 400mm LAP
12mm BAR = 480mm LAP
16mm BAR = 650mm LAP
20mm BAR = 820mm LAP
25mm BAR = 1000mm LAP

50 MINIMUM COVER TO ALL STEEL REINFORCEMENT (USE: HIGH CHAIRS OR SIMILAR)
ALL REINFORCEMENT TO BE fy = 500N/mm²
ALL REINFORCEMENT TO BE WIRE TIED USING 1.2mm STAINLESS WIRE

MASONRY

UNLESS OTHERWISE STATED:

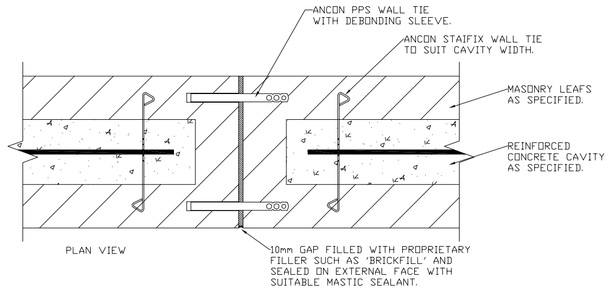
ALL MORTAR BELOW DPC TO BE 1:3 / 4:3 (CEMENT:SAND).
ALL MORTAR ABOVE DPC TO BE 1:1:6 (CEMENT:LIME:SAND).
ALL NEW MASONRY WALLS BELOW DPC TO BE CONSTRUCTED FROM 7.3N/mm² BLOCKS IN CLASS iii) MORTAR.



RETAINING WALL-RW-01

N.B
-TO BE USED FOR RETAINING HEIGHT UP TO 1800mm
-SETTING OUT, WATERPROOFING, INSULATION AND FINISHES TO ARCHITECTS DETAILS
-PROPRIETARY MOVEMENT JOINTS AT 6000mm
-CONCRETE TO BE POURED AND VIBRATED IN MAXIMUM 450 DEEP LAYERS
-S/S CAVITY TIES: 450 CENTRES VERTICALLY AND 750 HORIZONTALLY
-WATERPROOFING INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURERS SPEC. AND TO BE CONFIRMED COMPLIANT WITH BUILDINGS WARRANTY INSURERS PRIOR TO INSTALLATION.
-CONTRACTORS TO ENSURE SAFE WORKING AND TEMPORARY SHUTTERING AT ALL TIMES AS REQUIRED.
-ALL BARS AND MESH TO BE WIRE TIED TOGETHER.

WATERPROOFING TO BE SPECIFIED BY SUPPLIER



TYPICAL MOVEMENT JOINT
SCALE: N/A

NB. ALL PRODUCTS TO BE INSTALLED STRICTLY IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.

NOTES

General Preliminaries
This specification has been prepared for building control approval. To be read in conjunction with all relevant drawings and details.

The inspection or approval of the drawings by the Local Building Control Surveyor shall not relieve the contractor's responsibilities or obligations. Nothing included or omitted from this specification will relieve the contractor of his duty to carry out the works in accordance with all the relevant current standards, safety and good workmanship and practice. The contractor will be responsible for the correct setting out.

All dimensions are in millimetres and to be checked on site prior to commencement of works. Drawings must not be scaled.

No changes to be made without JSJ Design Ltd's authorisation.

REV	REV BY	DATE	DESCRIPTION
F			
E			
D			
C			
B			
A	SK	17/01/2022	First Review

JSJ Design Ltd

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PROJECT:
Retaining Wall at Wellfields Carpark, Penzance

TITLE:
Structural Layouts & Details

DRAWING NO: CJPENZADGW01			SHEET NO: 01
SCALE: @A1	DRAWN BY: SK	CHECKED BY: JK	
PROJECT REF: CJPENZA01	DATE: 17/01/2022		REV: A