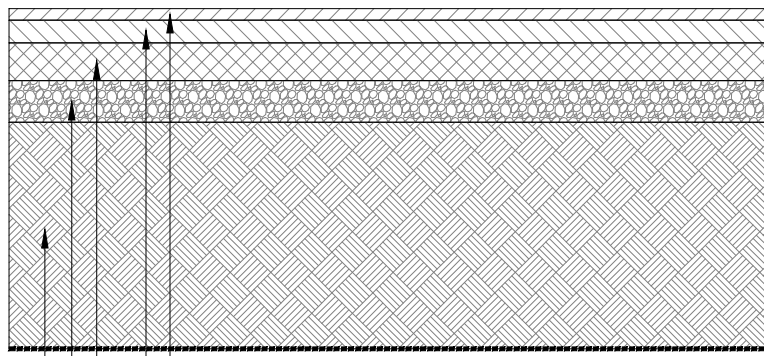
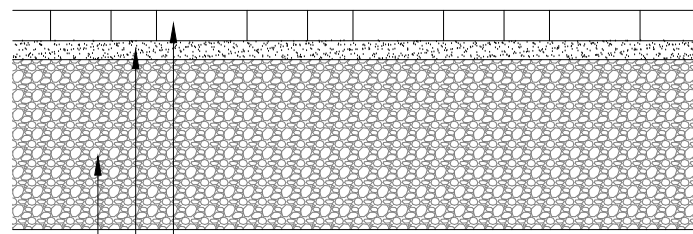




SURFACE COURSE (30mm AC 10 SURF 100/150 TO CL. 912)
BINDER COURSE (60mm AC 20 DENSE BIN 40/60 TO CL. 906) TO BS EN 13108-1 ASPHALT CONCRETE AND PD 6691
BASE COURSE (150mm AC 32 DENSE BASE 40/60 TO CL. 906) TO BS EN 13108-1 ASPHALT CONCRETE AND PD 6691
SUB BASE (220mm TYPE 1 GRANULAR MATERIAL TO CLAUSE 803 OF THE SPECIFICATION FOR HIGHWAY WORKS.)
CAPPING LAYER (320mm CLASS 6F1.6F2 (SITE WON), OR 6F4/6F5 (IMPORTED) MATERIAL.)

FLEXIBLE PAVING FOR RESIDENTIAL ROAD

THE ABOVE DETAIL IS NOT SUITABLE FOR USE AS A TEMPORARY RUNNING SURFACE DURING CONSTRUCTION

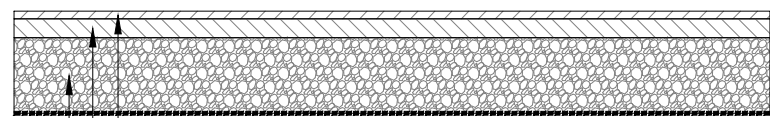


BLOCK PAVING
TOBERMORE PEDESTA 200x100x60mm RECTANGULAR BLOCKS LAID IN 45° HERRINGBONE PATTERN COLOUR: CHARCOAL.
THE PAVERS SHALL THE MINIMUM PPV AS SPECIFIED AND SHALL BE LAID IN ACCORDANCE WITH BS 7533: PART 3.

LAYING COURSE
50mm LAYER OF SHARP SAND TO BS EN 12620.

SUB-BASE
(REFER TO TABLE 1 FOR THICKNESS - ASSUME 4% CBR FOR TENDER PURPOSES)
450mm MIN. TYPE 1 GRANULAR MATERIAL TO CLAUSE 803 OF THE SPECIFICATION FOR HIGHWAY WORKS, LAID AND COMPACTED IN TWO LAYERS.

CONSTRUCTION SPECIFICATION FOR TOBERMORE PEDESTA (CHARCOAL) BLOCK PAVING TO DRIVEWAYS



SURFACE COURSE (20mm AC 6 DENSE SURF 100/150)

LAYING COURSE (30mm CATEGORY II LAYING COURSE SAND TO BS7533 PART 3, 2005 + A1:2009.)

SUB-BASE (200mm TYPE 1 GRANULAR MATERIAL TO CLAUSE 803 OF THE SPECIFICATION FOR HIGHWAY WORKS.)

TYPICAL SPECIFICATION PUBLIC FOOT PATH CONSTRUCTION

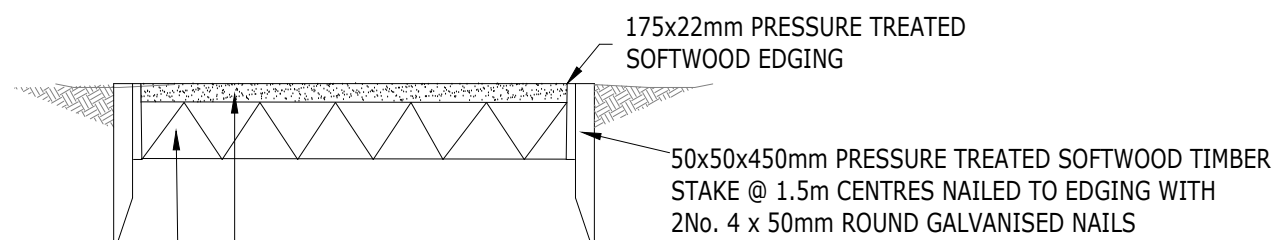


PAVING SLABS (PRIVATE HOUSES)
ALL PATIOS AND ACCESS PATHS TO BE CONSTRUCTED USING STONEMARKET STANDARD TEXTURE PAVING SLABS TO PATHS AND PATIOS, 600 x 600 AS PER LANDSCAPE ARCHITECT SPECIFICATION

LAYING COURSE
MIN 25mm THICK 1:4 CEMENT:SAND BED

SUB-BASE
MIN 100mm THICK CLEAN, WELL CONSOLIDATED CRUSHED CONCRETE HARDCORE (MAX SIZE 75mm). SURFACE TO BE BLINDED WITH 25mm LAYER OF SAND

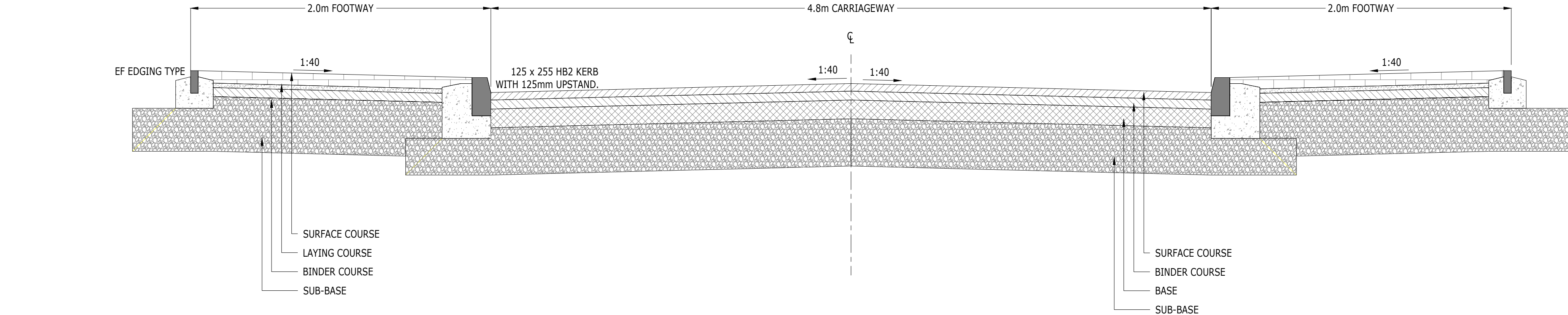
CONSTRUCTION SPECIFICATION FOR PAVING SLABS PATIO & ACCESS PATH



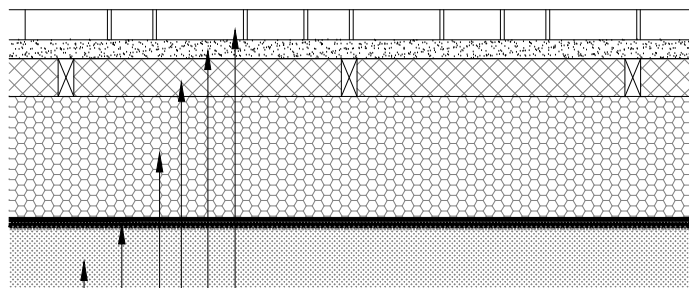
SURFACE COURSE
65mm THICK (50mm POST COMPACTION) SUPER CEDEC FOOTPATH GRAVEL, LAID AND COMPACTED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATION. COLOUR IN ACCORDANCE WITH ARCHITECT'S DETAILS

SUB-BASE
110mm THICK CLEAN, WELL CONSOLIDATED CRUSHED CONCRETE HARDCORE (MAX SIZE 75mm). SLAG OR CONCRETE SURFACE TO BE BLINDED WITH 25mm LAYER OF SAND

SELF BINDING GRAVEL FOOTPATH DETAIL



TYPICAL CROSS SECTION THROUGH 4.8m WIDE RESIDENTIAL ROAD WITH 2 x 2.0m FOOTWAYS
(1:20)



BLOCK PAVING
PERMEABLE HYDROPAVE PEDESTA CONCRETE BLOCK PAVING TO PARKING COURTS IN BRINDLE, HERRINGBONE BOND 200x100x80mm IN ACCORDANCE WITH LANDSCAPE ARCHITECT SPECIFICATION.

LAYING COURSE
50mm LAYER OF 2-6.3mm SIZE CLEAN AGGREGATE TO BS EN 12342:2002

BASE COURSE
100mm AC 20 DENSE BASE 100/150 REC TO BS EN 13108-1 ASPHALT CONCRETE, CAREFULLY CORED WITH 75mmØ HOLES @ 750mm c/c AND FILLED WITH 2-6.3mm SIZE CLEAN AGGREGATE, PRIOR TO INSTALLATION OF LAYING COURSE & BLOCKS.

SUB-BASE
400mm 20mm AGGREGATE (OPEN GRADE CRUSHED STONE WITH MIN 32% VOID RATIO), CLEAN AND FREE FROM ANY FRIABLE MATERIAL, TYPE 4/20 MATERIAL TO BS EN 13242:2002.

IMPERMEABLE GEOMEMBRANE
CHARCON GEOMEMBRANE WITH WITH PROTECTIVE CHARCON GEOTEXTILE. TO WRAP UP THE SIDE OF THE SUB-BASE WITH A MINIMUM LAP DISTANCE OF 0.3m

CAPPING LAYER
175mm, TYPE 6F2 MATERIAL, IN ACCORDANCE WITH MCHW VOLUME 1 SERIES 600.

PERMEABLE PAVING CONSTRUCTION SPECIFIED ABOVE IS SUITABLE FOR CBR VALUES OF BETWEEN 2.5% & 5%. FOR CBR VALUES OUTSIDE OF THIS RANGE, REFER BACK TO THE ENGINEER FOR CLARIFICATION.

ALL MATERIAL SPECIFICATION AND WORKMANSHIP OF PERMEABLE PAVING CONSTRUCTION TO BE STRICTLY IN ACCORDANCE WITH RECOMMENDATIONS BY CHARCON.

CONSTRUCTION SPECIFICATION FOR TANKED PERMEABLE BLOCK PARKING COURTS

GRANITE SETTS
100 x 100 x 200mm THICK GRANITE SETTS TO BE SET 10mm ABOVE NOTIONAL ROAD/RAMP LEVEL

LAYING COURSE
'BOND PLUS MORTAR' (POLYMER ENRICHED PRIMING ADHESIVE) TO BE APPLIED TO CONCRETE BASE BEFORE LAYING OF 40mm (MIN. 30mm / MAX. 70mm) THICK 'EASIPONT FINE BEDDING CONCRETE' (POLYMER REINFORCED). 'BOND PLUS MORTAR' TO BE APPLIED TO THE UNDERSIDE OF EACH SETT BEFORE BEDDING INTO PLACE WITH MAXIMUM 12mm JOINTS. POINTING OF SETTS TO BE CARRIED OUT USING 'EASIPONT STANDARD MORTAR' (GUN INJECTED). ALL BEDDING/POINTING PRODUCTS TO BE SUPPLIED BY PAREX LTD.

BASE COURSE
150mm GRADE ST1 CONCRETE TO CLAUSE 2602 OF MCHW1

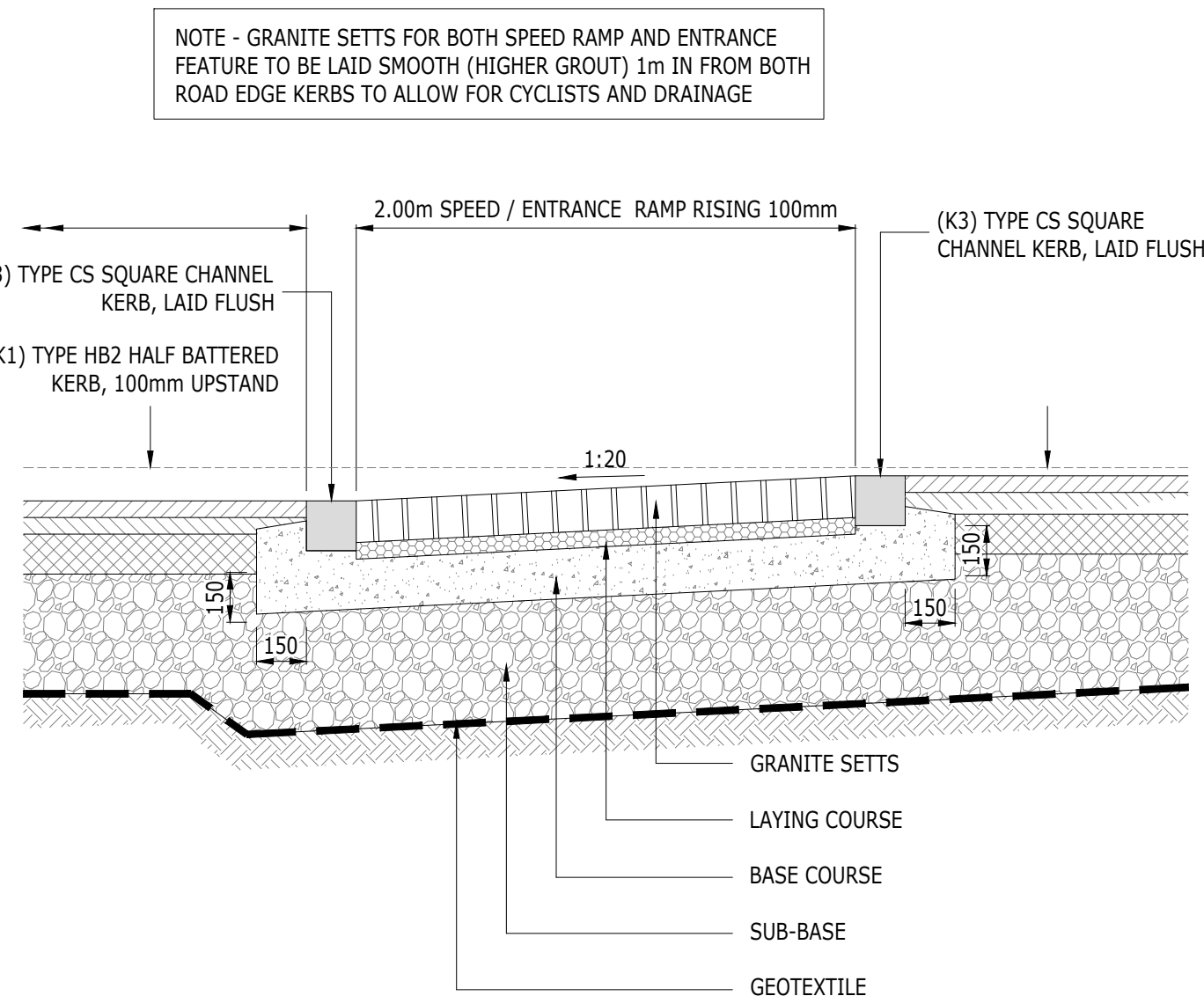
SUB-BASE
360mm MIN. THICKNESS OF TYPE 1 GRANULAR MATERIAL TO CLAUSE 803 MCHW1 (BASED UPON A CBR TEST RESULT OF 3.0% - IF DIFFERENT, REFER TO **TABLE A** AND ENGINEER FOR CLARIFICATION)

GEOTEXTILE
GEOTEXTILE SEPARATOR TERRAM T2000 (NON-WOVEN TYPE) TO BE PROVIDED ON FULL WIDTH OF THE COMPACTED SUBGRADE PRIOR TO SPREADING THE SUB-BASE FOR CBR VALUES LESS THAN 5% AS PER CLAUSE 2.1.4 OF THE 'SPECIFICATION FOR ESTATE ROADS, MAY 2007'

IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE CORING PROCESS OF THE BASE COURSE DBM LAYER IS CARRIED OUT AS NEATLY AND CAREFULLY AS POSSIBLE TO MINIMISE DISTURBANCE AND MAINTAIN THE STRUCTURAL INTEGRITY OF THE DBM.

ON COMPLETION OF THE CORING PROCESS THE CONTRACTOR IS TO REQUEST AN INSPECTION OF THE SURFACE FOR APPROVAL, PRIOR TO THE INSTALLATION OF THE LAYING COURSE AND BLOCKS.

***IMPORTANT NOTE REGARDING SUB-BASE FORMATION OF PERMEABLE PAVING**
THE FORMATION OF THE PERMEABLE PAVING SUB-BASE MUST NOT EXCEED A GRADIENT OF 1/40. FOR STEEPER GRADIENTS, USE MAXIMUM GRADIENT OF 1/40 FOR FORMATION, APPLYING VERTICAL STEPS AS NECESSARY, BUT ENSURING MINIMUM SUB-BASE THICKNESS IS ALWAYS ACHIEVED.



TYPICAL CONSTRUCTION DETAIL OF RUMBLE STRIP USING GRANITE SETTS
(1:20)

TYPICAL CROSS SECTION THROUGH 4.8m WIDE RESIDENTIAL ROAD WITH 2 x 0.5m SERVICE STRIPS
(1:20)

TABLE A - CAPPING LAYER & SUB-BASE THICKNESS REQUIREMENTS
(UPDATED AND IN ACCORDANCE WITH CD 225)

CBR VALUE (%)	CAPPING LAYER AND SUB BASE PROVIDED		SUB BASE ONLY PROVIDED
	Min. SUB BASE THICKNESS (mm)	Min. CAPPING LAYER THICKNESS (mm)	Min. SUB BASE THICKNESS (mm)
<2	GROUND IMPROVEMENT REQUIRED - SEEK ASSISTANCE FROM ENGINEER		
2	GROUND IMPROVEMENT REQUIRED - SEEK ASSISTANCE FROM ENGINEER		
2.5	240	410	400
3	230	370	360
4	220	320	310
5	200	260	280
8	160	220	240
10	150	200	230
>15	150	150	200

FOR TENDER PURPOSES, A CBR VALUE OF 4.0% IS ASSUMED AT THE FORMATION LEVEL OF THE HIGHWAY.
ACTUAL SUB-BASE / CAPPING LAYER THICKNESS TO BE DETERMINED IN ACCORDANCE WITH THE ABOVE TABLE, BASED UPON CBR TESTING AT 30m INTERVALS ON THE COMPLETED FORMATION. TEST RESULTS TO BE SUBMITTED TO ENGINEER & HIGHWAYS INSPECTOR FOR CLARIFICATION OF SUB-BASE / CAPPING LAYER CONSTRUCTION PRIOR TO CONTINUATION OF WORKS.

IMPORTANT NOTE
UPON COMPLETION OF THE SUB-BASE LAYER, INDEPENDENT VERIFICATION OF CBR VALUES ARE REQUIRED AS FOLLOWS, **PRIOR** TO THE LAYING OF ANY BITUMINOUS SURFACES OVER:
• 15% MINIMUM CBR ON THE COMPLETED CAPPING LAYER (IF APPLICABLE) &
• 30% MINIMUM CBR ON THE COMPLETED SUB-BASE LAYER
CONTRACTOR MUST MAKE ALLOWANCE WITHIN TENDER SUM FOR THIS TESTING.

WHERE CBR VALUES ARE BELOW 2% A 600mm THICK CAPPING LAYER IS TO BE PROVIDED. ALSO, IF THE SUB-GRADE IS SUSCEPTIBLE TO Frost, A CAPPING LAYER OF TYPE 6F1 MATERIAL (TO CLAUSE 613 OF THE SPECIFICATION FOR HIGHWAY WORKS) SHOULD BE PROVIDED TO INCREASE THE OVERALL CONSTRUCTION THICKNESS TO A MINIMUM OF 400mm.

IMPORTANT NOTE REGARDING SITE WON MATERIAL AS FILL

BEFORE SITE WON MATERIAL CAN BE RE-USED AS FILL UNDER PROPOSED HIGHWAY AREAS, SUITABLE TESTING (ALLOWANCE TO BE MADE IN TENDER SUMS) TO BE CARRIED OUT IN ACCORDANCE WITH GEOSPHERE ENVIRONMENTAL GEOTECHNICALS DETAILED SITE INVESTIGATION REPORT TO DETERMINE THE CLASSIFICATION OF THE MATERIAL IN ACCORDANCE WITH TABLE 6/1 600 SERIES OF MCHW1. IT IS TO BE EITHER CLASS 2A OR 2B OR POSSIBLY CLASS 1A OR 1B) AND ITS GENERAL SUITABILITY FOR RE-USE. PLEASE NOTE SOME SITE WON MATERIAL MAY NOT BE SUITABLE FOR RE-USE AS FILL FOR VARYING REASONS, E.G. LEVEL OF DESICCATION.

ALL FILL MATERIAL WILL NEED TO BE LAID AND COMPACTED STRICTLY IN ACCORDANCE WITH TABLE 6/4 600 SERIES OF MCHW1

ALL SUB-GRADES TO BE PROOF ROLLED WITH A SUB-BASE ROLLER TO DENSITY MAY BE OBTAINED WITHIN THE SUB-GRADE AT FORMATION. ALL SOFT SPOTS TO BE REMOVED AND BACKFILLED WITH WELL COMPACTED TYPE 1 MATERIAL TO CLAUSE 803 OF THE SPECIFICATION FOR HIGHWAY WORKS.

IMPORTANT NOTE:
REFER TO DRAWINGS 1051 -1052 & 1601-1602 FOR SURFACING LAYOUT.

NOTES

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE RELEVANT SPECIFICATION AND ALL OTHER RELATED DRAWINGS ISSUED BY THE ENGINEER.
- DO NOT SCALE FROM THIS DRAWING. WORK FROM FIGURED DIMENSIONS ONLY.
- ALL DIMENSIONS SHOWN ON THIS DRAWING ARE IN METRES, UNLESS OTHERWISE STATED.
- ALL DIMENSIONS, LEVELS AND SURVEY GRID CO-ORDINATES ARE TO BE CHECKED ON SITE AND THE ENGINEER NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES PRIOR TO THE COMMENCEMENT OF THE WORKS.
- NO DEVIATION FROM THE DETAILS SHOWN ON THIS DRAWING IS PERMITTED WITHOUT PRIOR PERMISSION FROM THE ENGINEER.
- ALL WORKS OUTSIDE RED SITE BOUNDARY ARE FOR INFORMATION PURPOSES ONLY. UNLESS SPECIFICALLY NOTED, ALL WORKS OUTSIDE THE SITE BOUNDARY WILL BE UNDERTAKEN BY OTHERS UNDER A SEPARATE CONTRACT.

CDM NOTES

THE ATTENTION OF THE CLIENT, PRINCIPAL DESIGNER, PRINCIPAL CONTRACTOR, DESIGNERS AND CONTRACTORS IS DRAWN TO THE FOLLOWING POTENTIAL RISKS IN CONJUNCTION WITH THE PROPOSED ON-SITE AND OFF-SITE WORKS AS DESIGNED FOR THIS PROJECT:

- WORKS IN THE VICINITY OF LIVE SERVICES INCLUDING GAS, ELECTRICITY AND BT WILL BE NECESSARY AND THE ADVICE OF ALL STATUTORY SERVICE COMPANIES MUST BE SOUGHT BEFORE ANY WORKS COMMENCE.
- WORKS WITHIN AND ABUTTING THE EXISTING HIGHWAY WILL ENTAIL TRAFFIC HAZARDS AND ALL APPROPRIATE SAFETY MEASURES INCLUDING BARRIERS, SIGNS AND LIGHTING MUST BE UNDERTAKEN TO THE APPROVAL OF THE LOCAL AUTHORITY, THE HIGHWAY AUTHORITY AND THE POLICE DEPARTMENT.
- HAZARDOUS MATERIALS INCLUDING CEMENT AND BITUMINOUS MATERIALS ARE SPECIFIED AND THE MANUFACTURERS ADVICE ON SAFE HANDLING PROCEDURES MUST BE OBTAINED AND MADE CLEAR TO ALL OPERATIVES.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR LOCATING ALL EXISTING SERVICES WITHIN THE VICINITY OF THE WORKS HAND DUG AND ENSURE THESE ARE PROTECTED THROUGHOUT THE DURATION OF THE WORKS. ALL UTILITY PLANT SHOULD BE CLEARLY MARKED ON THE GROUND PRIOR TO COMMENCEMENT OF THE WORKS.
- THE CONTRACTOR MUST ENSURE ALL WORKING AREAS ARE FULLY SECURE.

PO1 ISSUED FOR DISCHARGE OF PLANNING CONDITIONS MAC MAC BW 27.10.25

Rev	Description	Drn	Chk	App	Date
Purpose:	PRELIMINARY	Status:	NOT YET APPROVED		

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Client

JONES HOMES

Project Title:

FOLDERS GROVE 2

EXTERNAL WORKS CONSTRUCTION DETAILS (SHEET 1 OF 2)

Drawn by	Checked by	Approved by	Revision
MAC	MAC	BW	P01
A1 Scale	Date		
AS SHOWN	OCT 2025		

Drawing Number
2501300-ACE-XX-XX-DR-C-1611