Supplementary Information

The following information is associated with Network Rail Standard:
NR CIV/SD/203 Rev A

Additional Content Access

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CAD Drawing

- CIV/SD/203

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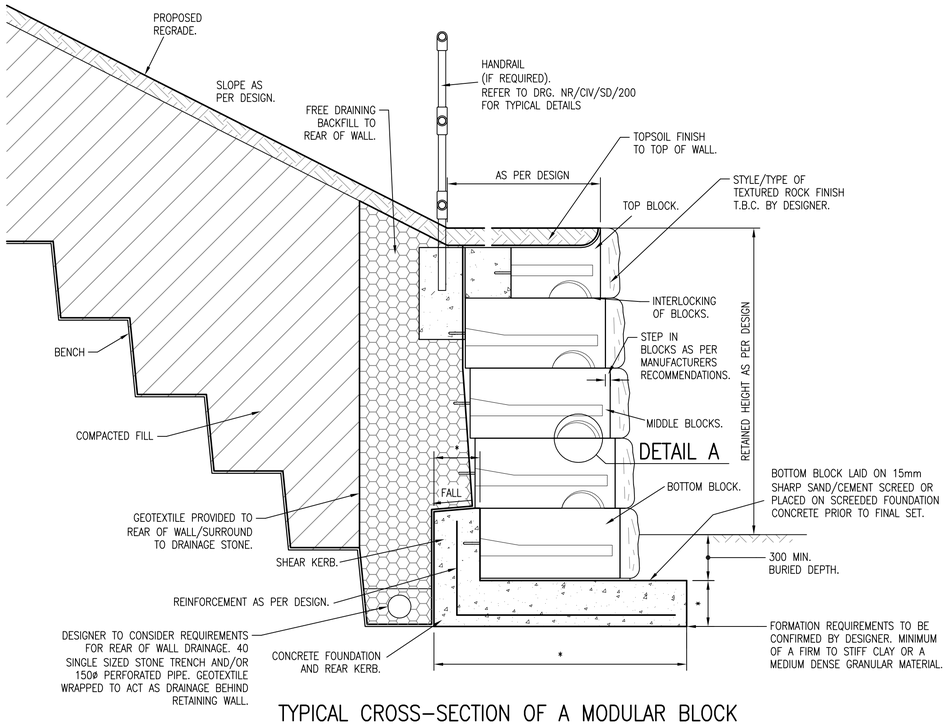
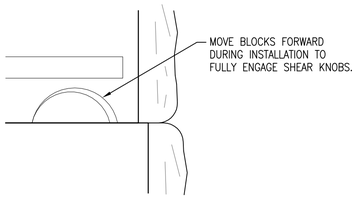


TYPICAL CROSS–SECTION OF A MODULAR BLOCK WALL APPLICATION (WITH REAR SHEAR KERB)

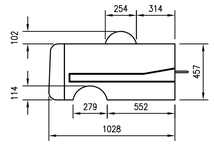
SCALE 1:20

* DIMENSIONS TO BE CONFIRMED BY DESIGNER.



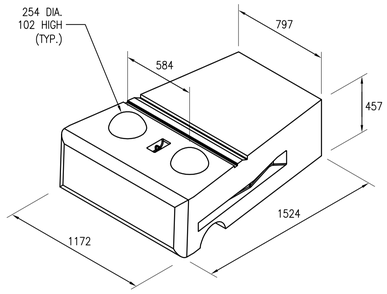
DETAIL A

SCALE 1:10

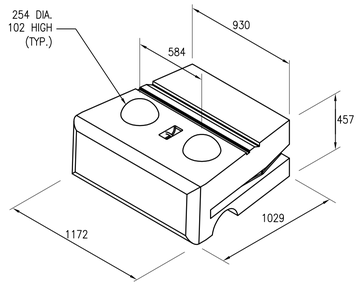


9" SETBACK BLOCK

SCALE 1:25



MIDDLE – 60"



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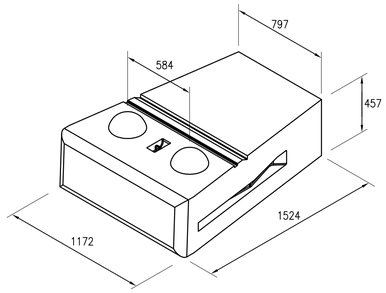

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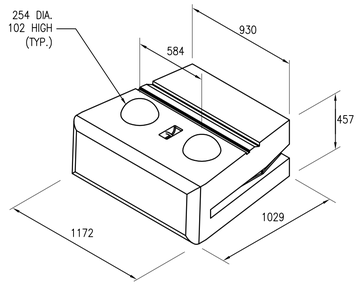

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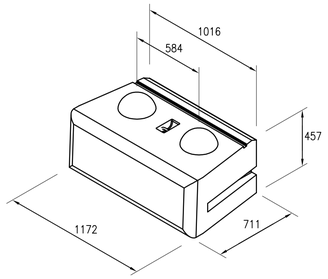

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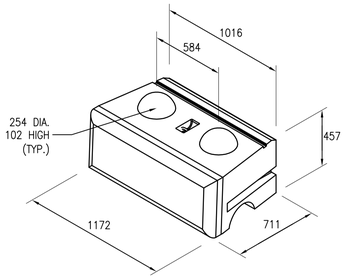

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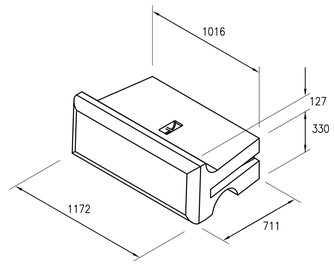
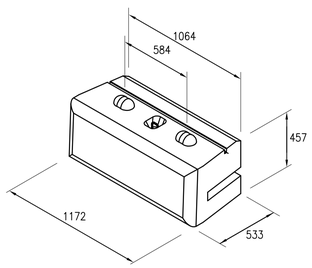


TOP – 28"



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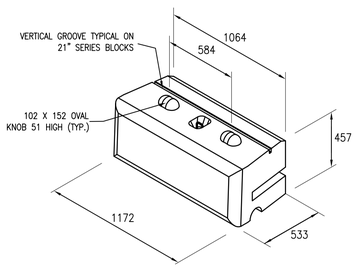

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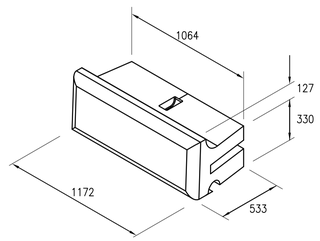
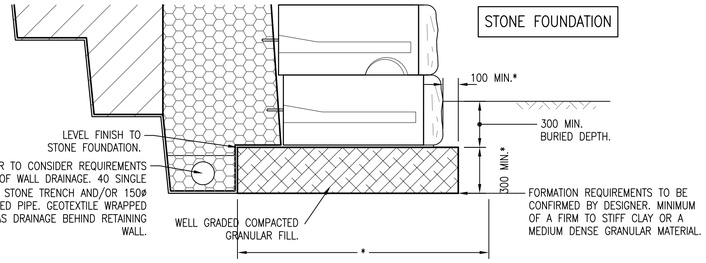
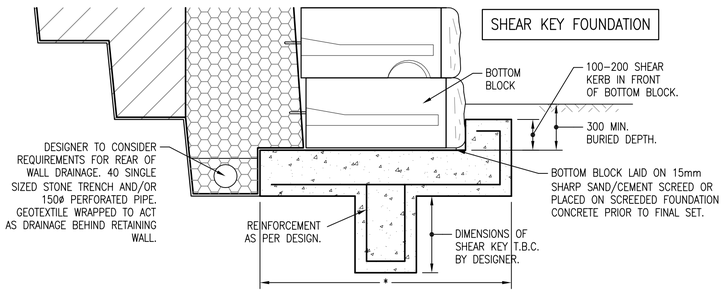


TOP – 21"

EXAMPLE MANUFACTURED MAIN BLOCK SIZE





OPTIONAL FOUNDATION ARRANGEMENTS

SCALE 1:20

DRAWING No. NR/CIV/SD/203

NOTES

A1 FOR GENERAL NOTES SEE DRG NR/CIV/SD/200.

A2 FOR GENERIC RISK ASSESSMENT, REFER TO DRG NR/CIV/SD/200 TABLE 1. DESIGNER TO COMPILE SITE SPECIFIC RISK ASSESSMENT.

B FOUNDATION

B1 DESIGNER TO CONFIRM THE FOUNDATION ARRANGEMENT (MATERIALS, WIDTH, DEPTH AND THE REQUIREMENT OF A SHEAR KEY) BASED ON THE GROUND CONDITIONS.

B2 CONCRETE TO BE IN ACCORDANCE WITH BS. 8500 AND EN 206–1. A COMPRESSIVE STRENGTH OF C35/45 IS REQUIRED FOR THE FOUNDATION.

C REINFORCEMENT

C1 ALL REINFORCEMENT SHALL BE HIGH YIELD, DEFORMED TYPE 2 BARS, IN ACCORDANCE WITH B.S.4449;2005.

D MODULAR BLOCK WALL SPECIFICATION

D1 THE WALL IS FORMED FROM A PROPRIETARY PRODUCT/SYSTEM AND THUS SHALL BE DESIGNED AND INSTALLED AS PER THE MANUFACTURERS RECOMMENDATIONS.

D2 THE MODULAR WALLS ARE FORMED FROM A SERIES OF INTERLOCKING BLOCKS OF VARIOUS SHAPES AND SIZES (SOME OF THE MAIN BUILDING BLOCKS SHOWN ON THIS DRAWING).

D3 PROPRIETARY SOFTWARE IS AVAILABLE FOR THE DESIGN OF THE WALLS FOR VARIOUS CONDITIONS. DESIGNER TO CONFIRM THE COMPOSITION OF THE WALL TO ENSURE INTERNAL STABILITY.

D4 THE DETAILS SHOWN ARE 'REDI–ROCK'. OTHER SIMILAR PROPRIETARY PRODUCTS MAY BE USED SUBJECT TO THE NECESSARY APPROVALS.

E REAR OF WALL DRAINAGE

E1 THE REQUIREMENT FOR REAR OF WALL DRAINAGE TO BE CONFIRMED BY THE DESIGNER. DRAINAGE SYSTEMS ARE TO BE PROPOSED IN A SITE SPECIFIC FORM A / FORM B, ENSURING THEY POSSESS THE NECESSARY FLOW CHARACTERISTICS AND CAN BE ADEQUATELY MAINTAINED.

F INSTALLATION GUIDANCE

F1 WALL UNITS ARE TO BE LIFTED, BEDDED, FIXED AND ASSEMBLED IN ACCORDANCE WITH THE MANUFACTURES INSTRUCTIONS.

F2 EXCAVATIONS TO CONSIDER THE STABILITY OF THE SLOPE ABOVE AT ALL TIMES (TRENCH EXCAVATION, BENCH BACKING, TOE EXCAVATION). METHOD OF CONSTRUCTION TO BE ASSESSED BY THE DESIGNER. EXCAVATIONS TO BE COMMENCED IMMEDIATELY PRIOR TO FOUNDATION CONSTRUCTION.

F3 CLASS 6N GRANULAR BACKFILL TO BE COMPACTED BEHIND THE RETAINING WALLS. OTHER CLASSES OF BACKFILL CAN BE CONSIDERED FOR USE BEHIND THE WALL SUBJECT TO THE NECESSARY LABORATORY CLASSIFICATION AND STRENGTH TESTS, AND WALL STABILITY DESIGN.

Rev	Date	Description of revision	Design'd	C'kd
A	MAY 2011	FIRST ISSUE	RKA	AW

Network Rail

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Approved	P CLARK	Senior Prog. Eng. Manager Investment Projects Building & Civils	PC	MAY 2011
	Name	Position	Signature	Date

Master copy with original signatures held by Network Rail HQ CIVIL ENGINEERING STANDARD DESIGN

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RETAINING WALLS

MODULAR BLOCK RETAINING WALL DETAILS

Scale	AS SHOWN @ A1	
Drawing Number	NR/CIV/SD/203	REV. A

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