

**Works to External Drainage**

1. Stone Paving to the Northern Elevation; cut out loose & cementitious pointing, rake out all open joints and completely repoint all the paving slabs with NHL 5 mortar.
2. Stone Paving to the Southern Elevation; allow to lift, relay & repoint paving with NHL 5 mortar.
3. Stone Paving to the Western Elevation; cut out all cementitious pointing, rake out all open joints and repoint the paving slabs with NHL 5 mortar.
4. Existing surface water gulleys; these are to be retained and adapted to take water from the new surface water channel (8).

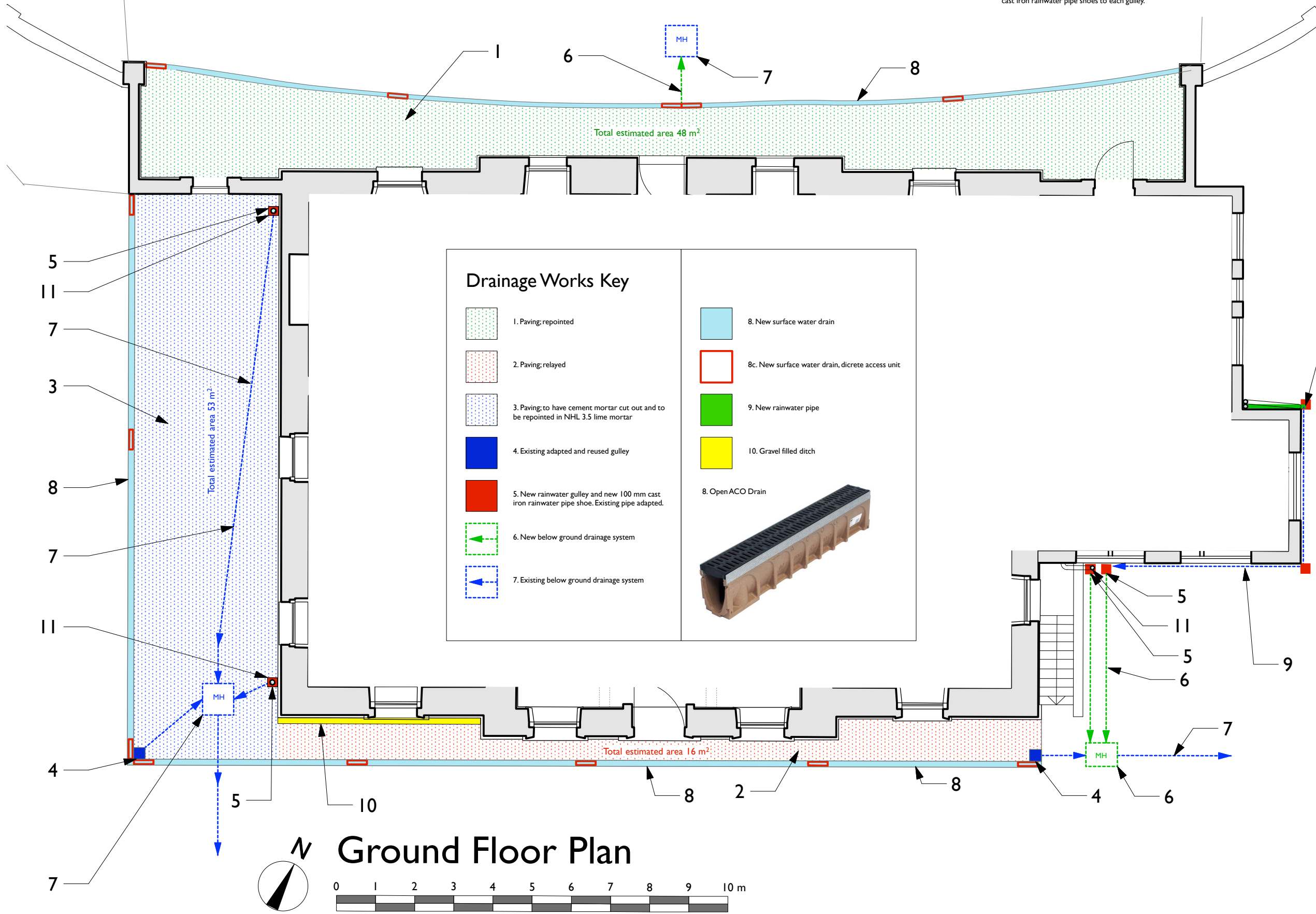
5. Excavate and install new rainwater gully. Assume gully to be a V.T. Knowles & Sons Ltd 'Square Inspection Gully' (with cast iron grate) Code KRGUI/1.
6. Allow for new below ground drainage and inspection chamber as indicated. Assume below ground pipe to be typical 110 mm  $\phi$  standard pipe to BS EN 1401 and BS 4660:2000. Inspection Chamber to be built up in Class A engineering brick laid in NHL 5 Lime Mortar and capped with a cast iron inspection chamber cover; assume cover to be a J & JW Longbottom Ltd 'Single Seal Heavy Duty Recessed Cover' (Code 926) assume size to be

- 900 x 600 mm. Also allow for stone to match existing/adjacent paving to infill recess.
7. Recently installed below ground drainage and inspection chamber. Allow for the rebuilding of 1 no inspection chamber to be the specification given in note 6.
  8. Surface water channel. Removed the existing dished channel and set aside. Install iron grating capped ACO Multidrain sloping depth channel. Assume the following specification: 100 m  $\phi$  units of the various appropriate depths to suit the length with slotted ductile iron covers. Allow for the connection of the new channels to the existing surface water gullies. Install units as per the manufacturers guidelines and instructions.

9. Below ground rainwater pipe, the condition is to be checked using a video inspection. At each change in direction the pipe is to be fitted with a new inspection/rodding/access.
10. Remove the existing 'gravel filled French drain,' and backfill with sub-soil and pave with new paving to match existing; lay and repoint in NHL 5 lime mortar.
11. Existing rainwater pipes; these are to be taken down, fully refurbished, redecorated and reinstalled. They are to be reinstalled in their original locations. Cut back the existing/new rainwater pipe to the appropriate length and to suit the new gully. Allow to install new cast iron rainwater pipe shoes to each gully.

DO NOT SCALE THIS DRAWING USE DIMENSIONS ONLY  
 VERIFY ALL DIMENSIONS ON SITE BEFORE COMMENCING ANY WORK OR SHOP DRAWINGS  
 INFORM THE ARCHITECT BEFORE ANY WORK STARTS IF THIS DRAWING EXCEEDS THE QUANTITIES IN ANY WAY

Revision	Date	Details
A	28 <sup>th</sup> March 2017	Additions of options a) & b) to items 1 & 2
B	21 <sup>st</sup> July 2017	Removal of specification information.
C	4 <sup>th</sup> September 2017	Notes amended for planning submission



**Ground Floor Plan**

**Drainage Works Key**

	1. Paving; repointed		8. New surface water drain
	2. Paving; relayed		8c. New surface water drain, discrete access unit
	3. Paving; to have cement mortar cut out and to be repointed in NHL 3.5 lime mortar		9. New rainwater pipe
	4. Existing adapted and reused gully		10. Gravel filled ditch
	5. New rainwater gully and new 100 mm cast iron rainwater pipe shoe. Existing pipe adapted.		8. Open ACO Drain
	6. New below ground drainage system		
	7. Existing below ground drainage system		

DRAWING ISSUE STATUS	REVISION N°	DATE	SIGNED
RISK ASSESSMENT UNDERTAKEN			
PLANNING APPLICATION N° 1			
PLANNING APPLICATION N° 2			
PLANNING CONSENT			
LISTED BLDG APPLICATION			
LISTED BLDG CONSENT			
DAC APPROVAL			
BLDG CONTROL APPLICATION			
BLDG CONTROL APPROVAL			
TENDER DOCUMENT			
CONTRACT DOCUMENT			

CLIENT  
English Heritage

PROJECT  
Marble Hill House

TITLE  
Main House:  
Ground Floor Plan;  
Showing Proposed External Drainage

SCALE  
1:100 @ A3

DATE  
March 2017

JOB N°  
16\_132

DRAWN  
HS

DRAWING N°  
270 C

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