

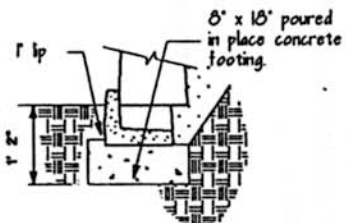
MASTERPLAN FOR RESIDENTIAL RETAINING WALLS OF HERCULES STANDARD AND MEGA MODULES

Hercules Mega Module for foundation

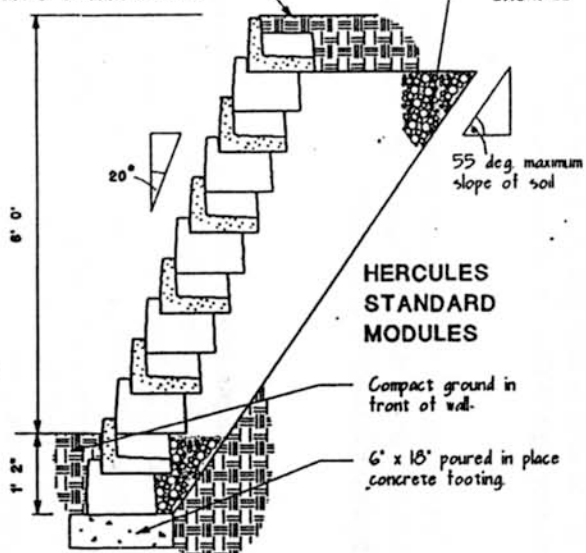


ALTERNATE FOOTING DETAIL FOR 6' 0" HERC. STD. WALL

ALTERNATE CONCRETE FOOTING DETAIL FOR ANY HERCULES STD. WALL

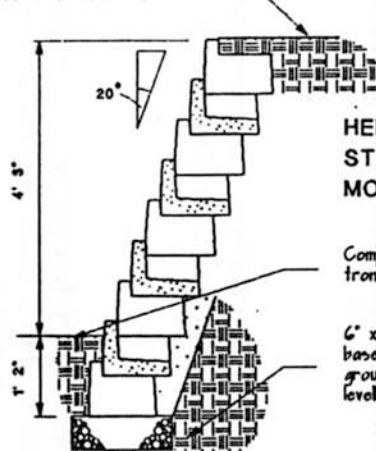


Ground should be level for at least 6' 0" back from wall



HERCULES STANDARD MODULES

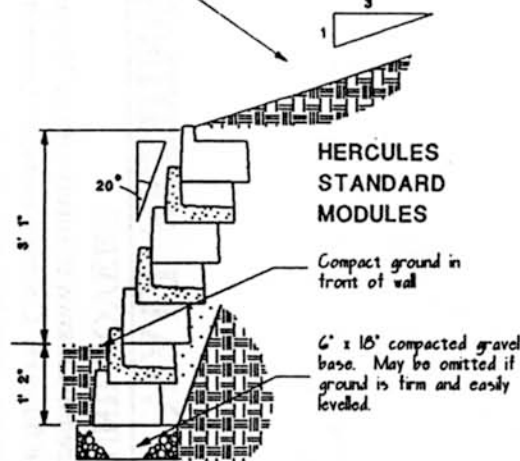
Ground should be level for at least 4' 8" back from wall



HERCULES STANDARD MODULES

A runoff collection swale can be formed to prevent erosion at the face of the wall

Max. slope 3



HERCULES STANDARD MODULES

Ground should be level for at least 6' 0" back from wall

ALTERNATE CONCRETE FOOTING DETAIL - for Hercules Mega walls shown

8' x 24" poured in place concrete footing



HERCULES MEGA and STANDARD MODULES

Compact ground in front of wall
Optional drainage layer with filter fabric - limits water buildup behind wall in heavy clays - all details. Otherwise use soil or rock fill to modules and behind wall.

6' x 24" compacted gravel base. May be omitted if ground is firm and levelled.

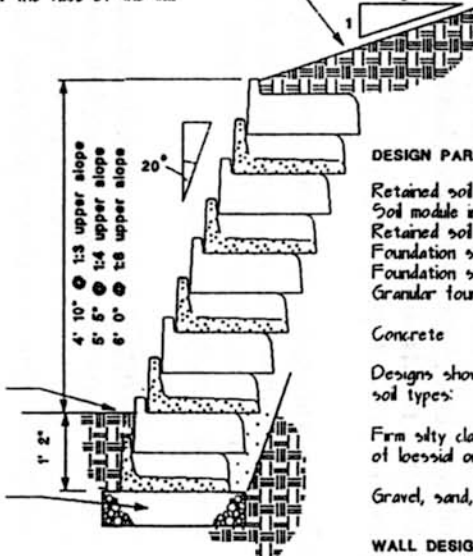
HERCULES MEGA MODULES

Compact ground in front of wall

6' x 24" compacted gravel base. May be omitted if ground is firm and easily levelled.

A runoff collection swale can be formed to prevent erosion at the face of the wall

Max. slope 3



DESIGN PARAMETERS

Retained soil density 120 pcf
Soil module infill density 100 pcf
Retained soil PHI angle 25 degrees
Foundation soil PHI angle 25 degrees
Foundation soil adhesion 250 pcf
Granular foundation PHI angle 34 degrees

Concrete $f_c = 3000$ psi

Designs shown are suitable for the following soil types:

Firm silty clays typical of the firmer silty clays of loessial origin occurring in the St. Louis area

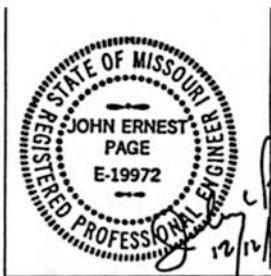
Gravel, sand, or gravelly or sandy clays

WALL DESIGNS ARE NOT SUITABLE FOR MOST BOTTOM LAND SOILS

FOUNDATION NOTES

Using the concrete footing detail with a lip will save one course of modules in the foundations (see detail).

Using the Mega Module for the footing with the 6' 0" Std. wall will avoid using a concrete footing for this wall.



The Engineer's seal (above) on this drawing attests only to the possibility of the detailed construction for the theoretical parameters used. Any person attempting to use these details is cautioned to hire the services of an engineer experienced in soil and foundation work. Building code authority inspectors should take particular care to ensure that conditions in the field do not vary from those indicated for the construction type shown.

ST LOUIS RETAINING WALL COMPANY			
DESIGN BY: J.E.P.	REVISION NO.	DATE/PLAN	
ISSUED BY: J.E.P.	TITLE: MASTER PLAN		
APPROVED BY: M.A.W.	DATE: 7-24-94	NO. OF SHEETS: 12-10-94	NO. OF 1