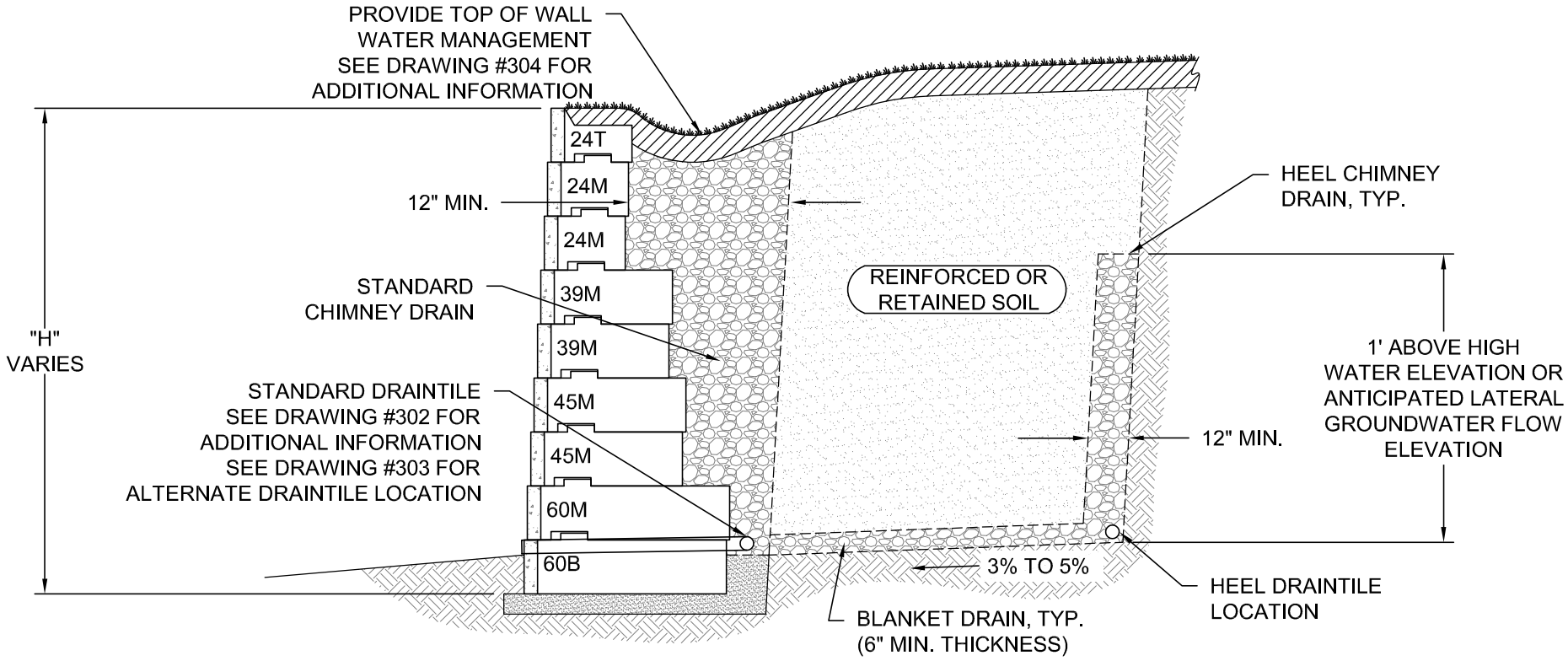
NOTES:

1. THE CROSS SECTION BELOW IS INTENDED TO REPRESENT VARIOUS OPTIONS FOR CONTROLLING AND REMOVING SURFACE WATER, HIGH GROUND WATER, AND LATERALLY FLOWING GROUND WATER. FINAL DESIGN FOR WATER MANAGEMENT IS THE RESPONSIBILITY OF THE WALL AND SITE DESIGNER.
2. SITE GRADING AND TOPOGRAPHY SHOULD BE DESIGNED TO MANAGE WATER AT THE TOP OF THE RETAINING WALL. REFER TO DRAWING #304 FOR SEVERAL TOP OF WALL WATER MANAGEMENT OPTIONS.
3. IT IS RECOMMENDED THAT A STANDARD CHIMNEY DRAIN AND DRAINTILE BE INSTALLED FOR ALL WALLS TO FACILITATE DRAINAGE OF INCIDENTAL SURFACE WATER AND POTENTIAL BELOW GRADE WATER. REFER TO DRAWING #302 AND #303 FOR MORE INFORMATION ON STANDARD AND ALTERNATE DRAINTILE PLACEMENT LOCATIONS.
4. BLANKET DRAINS AND HEEL CHIMNEY DRAINS SHOULD BE UTILIZED WHERE HIGH GROUND WATER ELEVATIONS ARE ANTICIPATED AS WELL AS LOCATIONS WHERE LATERAL GROUNDWATER FLOW INTO THE RETAINED OR REINFORCED SOIL ZONES MAY OCCUR. ADDITIONALLY, A HEEL DRAINTILE MAY BE INSTALLED TO HELP FACILITATE WATER DRAINAGE. HEEL DRAINTILE MAY BE TIED INTO STANDARD DRAINTILE WITH EXITS OUT OF THE THE FACE OF WALL OR TIED INTO SITE DRAINAGE.

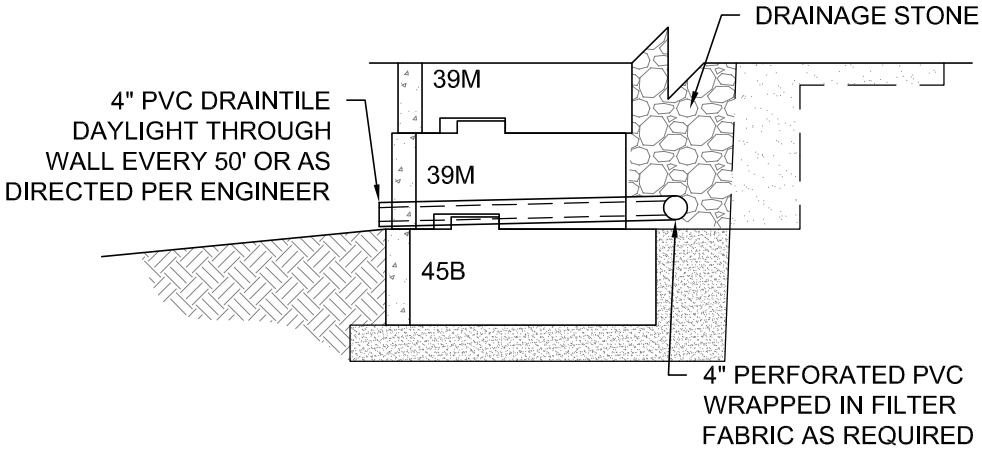


ReCon™ Retaining Walls

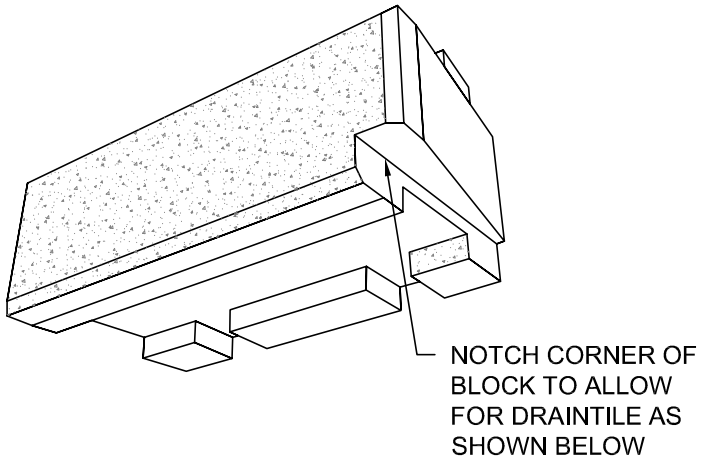
DRAWING #301

WATER MANAGEMENT DESIGN CONSIDERATIONS

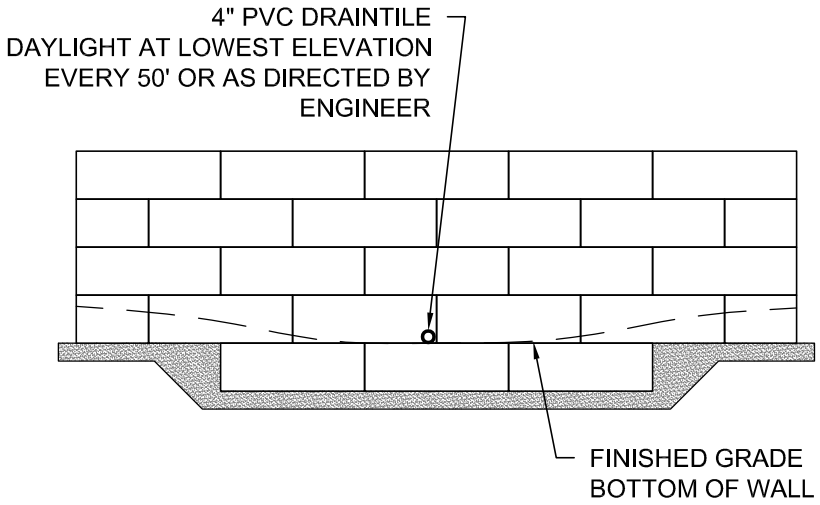
RECON WALL SYSTEMS, INC.
7600 W. 27th STREET, #229
ST. LOUIS PARK, MN 55426
952-922-0027
www.reconwalls.com



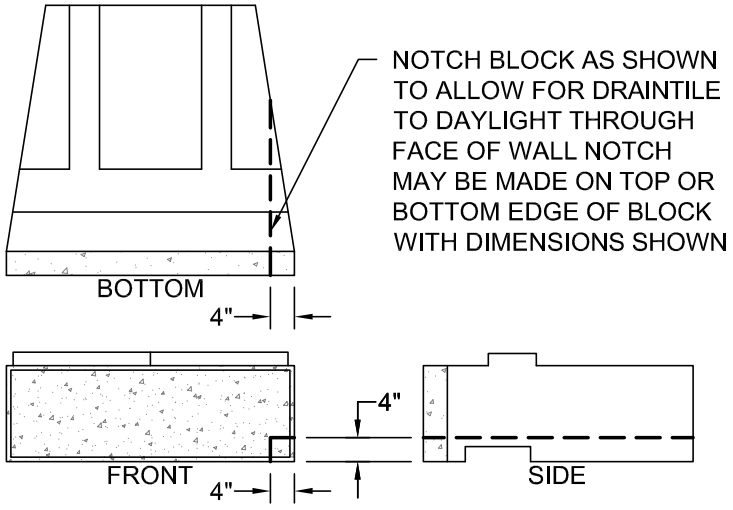
PARTIAL CROSS SECTION



ISOMETRIC VIEW



PARTIAL WALL PROFILE



DETAIL

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DRAWING #302

STANDARD DRAINTILE DETAILS

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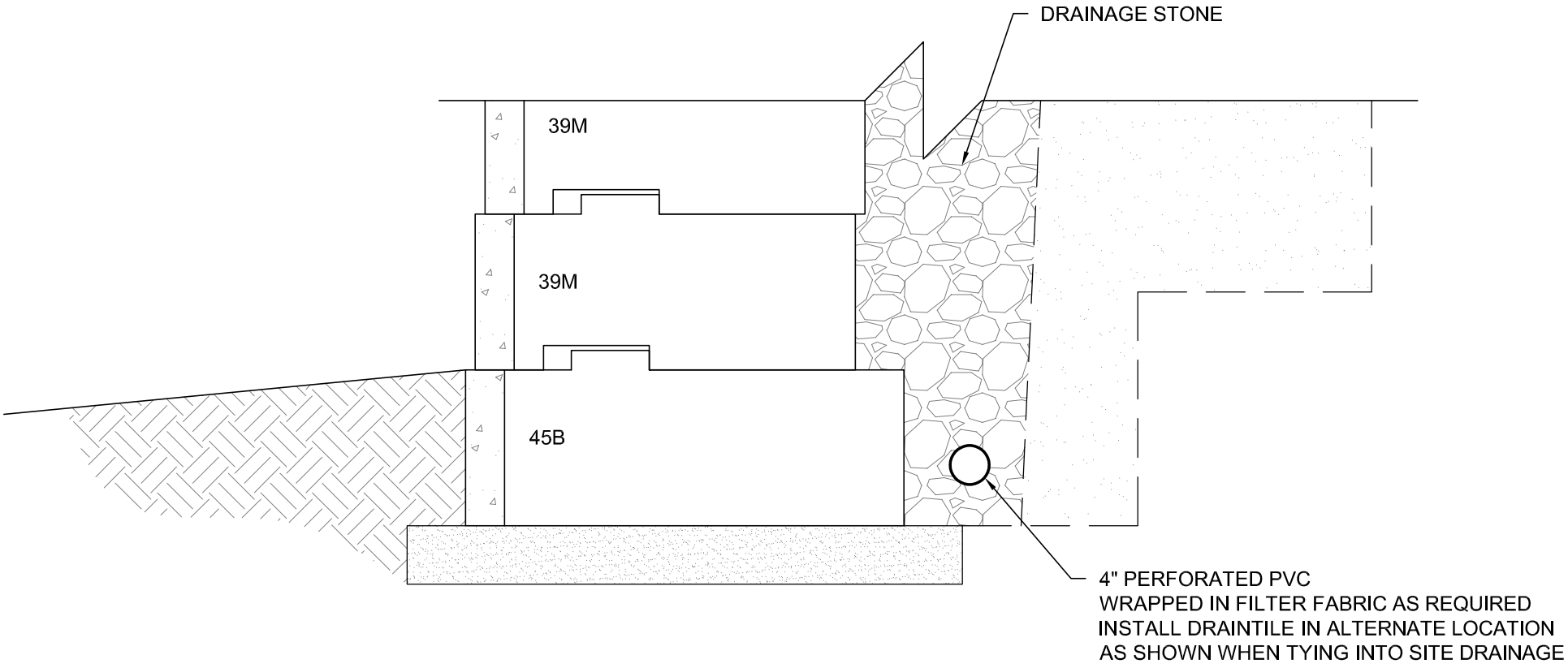

PARTIAL CROSS SECTION
ALTERNATE DRAINTILE LOCATION

Disclaimer: This drawing has been prepared by ReCon Wall Systems, Inc. and to the best of its knowledge, accurately represents the product use in the application that it is illustrated. This drawing is intended for conceptual purposes only. Anyone making use of this drawing does so at their own risk and assumes all liability for such use. Final design for construction purposes must be completed by a Registered Professional Engineer who is familiar with the product and who has taken into account specific site conditions.

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DRAWING #303

STANDARD DRAINTILE ALTERNATE LOCATION

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7600 W. 27th STREET, #229
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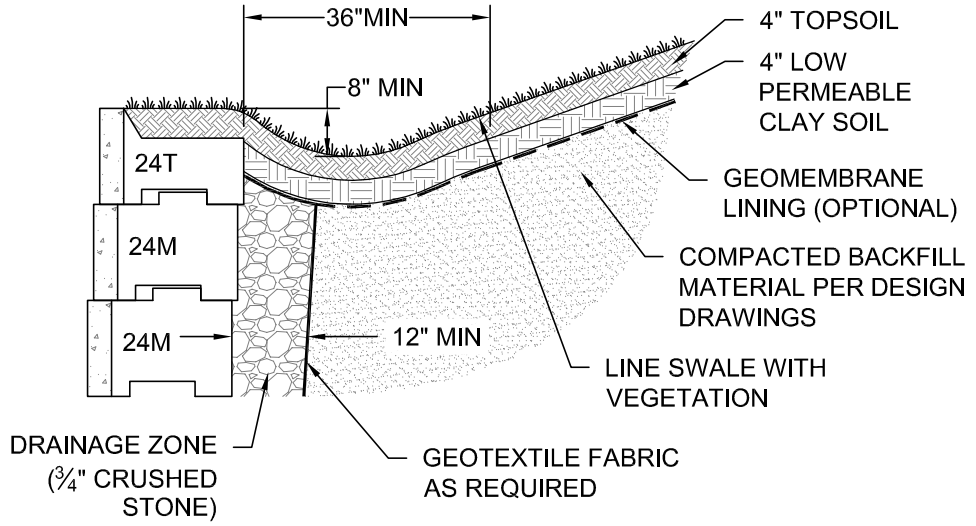
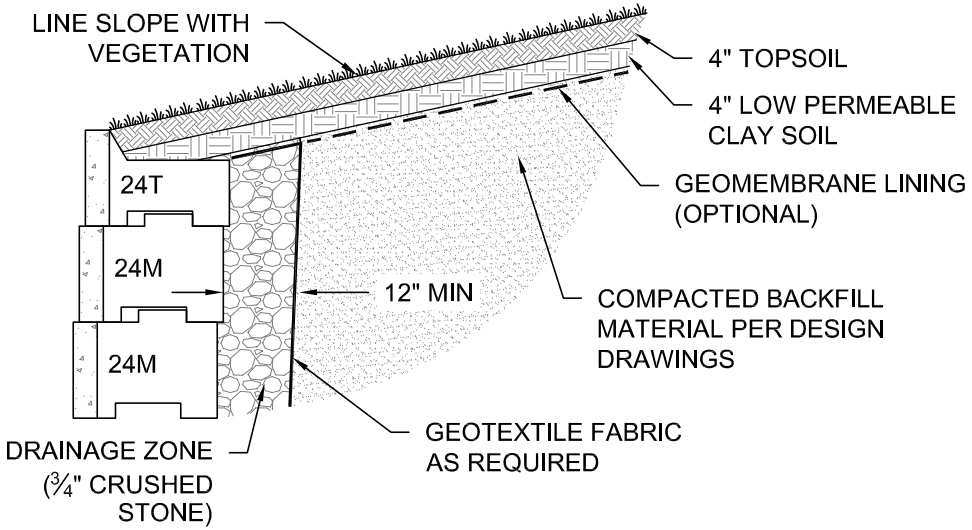
952-922-0027
www.reconwalls.com

NOTES:

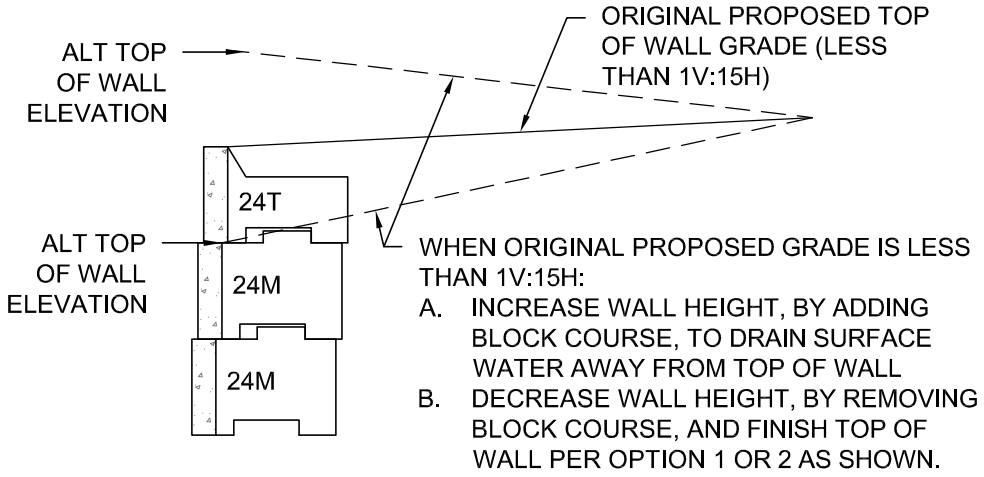
1. WHEN UTILIZING OPTION 1, ENSURE THAT SWALE CAN BE PITCHED ADEQUATELY ALONG THE LENGTH OF THE WALL TO FACILITATE WATER MOVEMENT AND PREVENT WATER PONDING.
2. IF ADEQUATE SWALE PITCH CANNOT BE ACHIEVED ALONG THE LENGTH OF WALL, FINISH TOP OF WALL USING OPTION 2. NOTE THAT SOME WATER STAINING MAY OCCUR FROM DRAINING WATER OVER THE FACE. PROVIDE ADEQUATE TOE PROTECTION (SCOUR) AND EMBEDMENT AT BASE OF WALL TO PREVENT EROSION.
3. IF THE PROPOSED TOP OF WALL GRADE HAS A SLOPE THAT IS LESS THAN 1H:15V IT IS RECOMMENDED THAT THE TOP OF WALL HEIGHT BE INCREASED OR DECREASED, AS SHOWN IN OPTION 3. IT IS ONLY RECOMMENDED THAT THE WALL HEIGHT BE INCREASED IF WATER WILL BE COLLECTED BEHIND THE WALL USING SITE DRAINAGE METHODS SUCH AS CATCH BASINS. ***COORDINATE WITH SITE CIVIL AND WALL DESIGNER PRIOR TO MAKING ANY CHANGES TO RETAINING WALL HEIGHTS.***
4. THE OPTIONS SHOWN ARE INTENDED TO ILLUSTRATE A FEW OF THE OPTIONS OF MANAGING WATER AT THE TOP OF WALL. WALL DESIGNER AND SITE CIVIL SHALL BE RESPONSIBLE FOR FINAL DESIGN.



OPTION 1 - TOP OF WALL DRAINAGE SWALE



OPTION 2 - TOP OF WALL SLOPE



OPTION 3 - TOP OF WALL RE-GRADING

ReCon™ Retaining Walls

DRAWING #304

TOP OF WALL WATER MANAGEMENT

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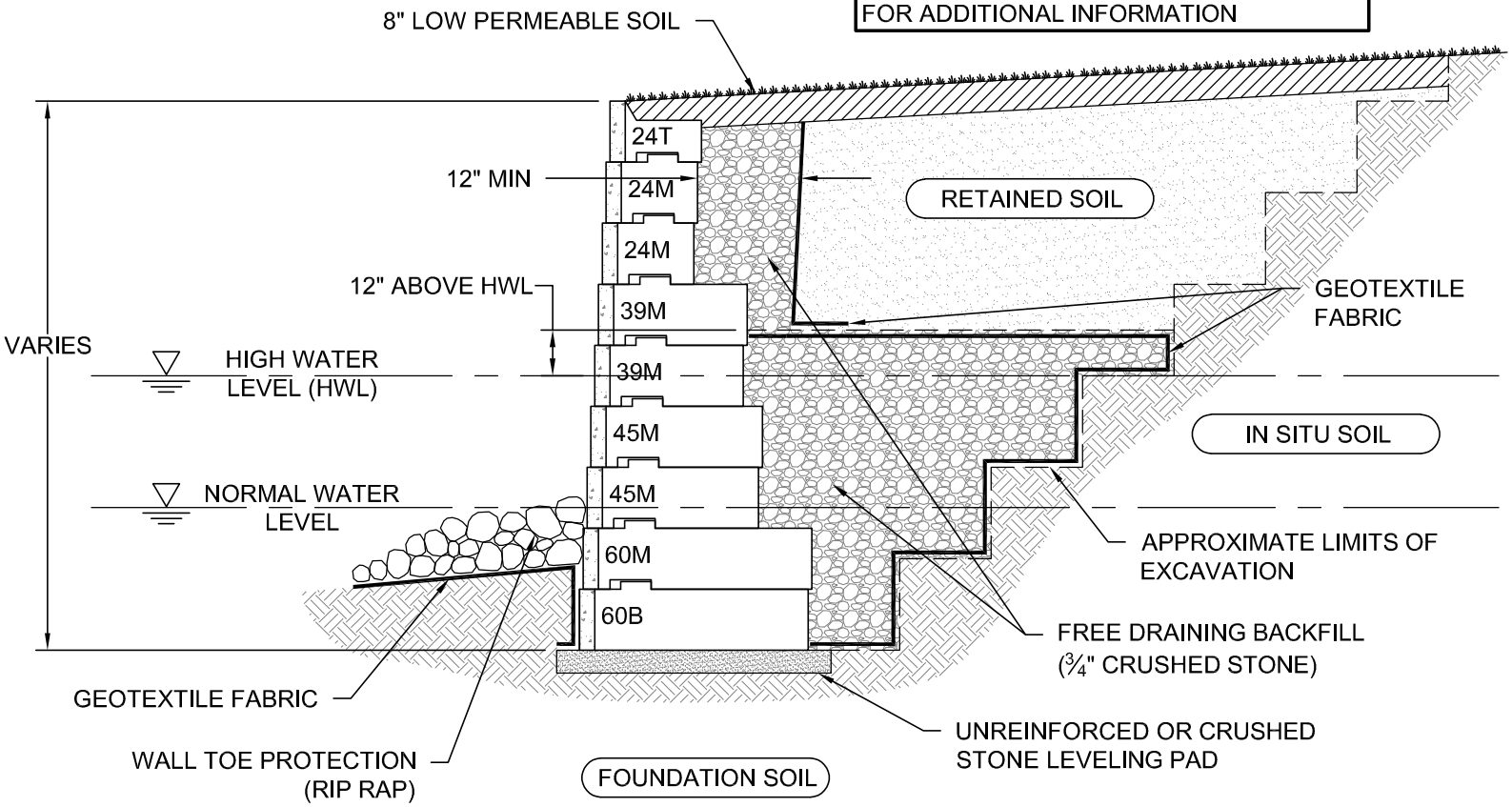
NOTE: REFER TO DRAWING #103 - TYPICAL GRAVITY WALL CROSS SECTION - FOR ADDITIONAL CROSS SECTION INFORMATION

FINISHED GRADE AT TOP OF WALL SHALL BE DESIGNED FOR PROPER DRAINAGE TO PREVENT PONDING. SEE DRAWING #304 FOR ADDITIONAL INFORMATION



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DRAWING #305

WATER APPLICATION - GRAVITY WALL CROSS SECTION

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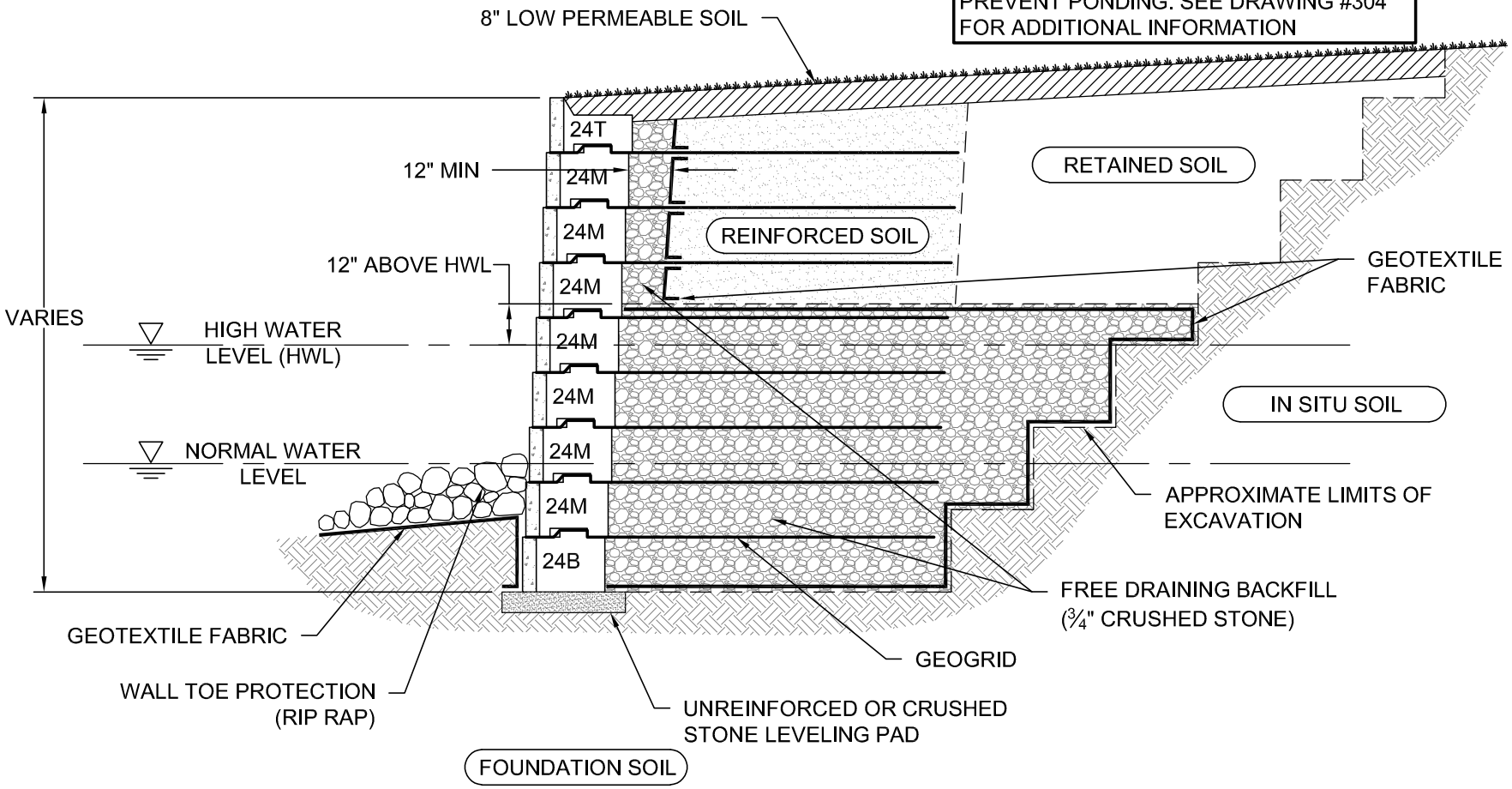
NOTE: REFER TO DETAIL DRAWING #104 - TYPICAL GEOGRID WALL CROSS SECTION - FOR ADDITIONAL CROSS SECTION INFORMATION

FINISHED GRADE AT TOP OF WALL SHALL BE DESIGNED FOR PROPER DRAINAGE TO PREVENT PONDING. SEE DRAWING #304 FOR ADDITIONAL INFORMATION



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DRAWING #306

WATER APPLICATION - GEOGRID WALL CROSS SECTION

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