Internal Drainage Options

Typical Section - Option 1

18" x 12" (457 mm x 305 mm) non-woven geotextile fabric (AASHTO M288 Survivability Class 3) in corner of joint between adjacent blocks

Non-woven geotextile fabric (AASHTO M288 Survivability Class 3)

Drainage aggregate (in wedge between blocks, in vertical core slot, and 12" (305 mm) behind blocks)

Drain pipe (As specified)

Typical Section - Option 2

Non-woven geotextile fabric (AASHTO M288 Survivability Class 2) glued to back of blocks to cover vertical joints

Drainage aggregate (in wedge between blocks and in vertical core slot)

Drain pipe (As specified)

Blanket and Chimney Drain Section

Intended for poor-draining retained soils and/or areas with potential groundwater impact

Typical drain (Section 1 or 2)

Drainage composite (Chimney drain)

REINFORCED SOIL ZONE

RETAINED SOIL

Chimney Drain

(0.7H or Maximum Elevation of Groundwater Rise)

24" (610 mm)
(Or as Specified)

Coarse drainage aggregate
(AASHTO No. 57 or equivalent)

Wall Drainage Options

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Stone Chimney Drain Section

(Poor-draining retained soils and/or areas with potential groundwater impact)

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LEVELING PAD OPTIONS FOR RETAINING WALL BLOCKS

NO SCALE

AASHTO NO. 57 STONE TO EXTEND AT LEAST 12" BEHIND WALL

NON-WOVEN GEOTEXTILE FABRIC (IF SPECIFIED)

PERFORATED DRAIN GRAVITY FLOW TO OUTLET AROUND ENDS OF WALL AND EVERY 50' ON-CENTER OR AS SPECIFIED

CONVERT TO SOLID PIPE BEFORE OUTLETING UNDER WALL

AASHTO NO. 57 CRUSHED STONE LEVELING PAD

OPEN-GRADED CRUSHED STONE LEVELING PAD

AASHTO NO. 57 STONE

CONVERT TO SOLID PIPE BEFORE OUTLETING THROUGH WALL

PERFORATED DRAIN GRAVITY FLOW TO OUTLET AROUND ENDS OF WALL AND EVERY 50' ON-CENTER OR AS SPECIFIED

UNREINFORCED AASHTO CLASS B CONCRETE WITH A MIN. 1,500 psi 28 DAY COMpressive STRENGTH, or DENSE GRADED GRAVEL (IMPERMEABLE)

CONCRETE or DENSE GRADED GRAVEL LEVELING PAD

Leveling Pad Options
Optional Concrete Curb as Required per Site Design

Reinforcement as Required per Site Specific Design

Footing Size and Dimensions per Site Specific Design

Optional Soil Key per Site Specific Design

60" Bottom Block Shown for Reference

OPTIONAL CONCRETE LEVELING PAD WITH KEYWAY

(NO SCALE)
Wall Drain Weep Hole Options

Solid PVC or HDPE drain pipe cast into block
Diameter = 3" (76 mm) or 4" (102 mm) as specified on plans

Pipe to extend 6" (152 mm) to 8" (203 mm) from back of block for connection to perforated wall drain

Custom Pipe Cast into Block

Notch ± 2.5" x 5" (64 mm x 127 mm) hole in side of a Redi-Rock block

Place Solid PVC or HDPE drain pipe through notched hole and grout pipe in place

Field Installed Pipe

Connect to perforated wall drain

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STEP FOOTING DETAILS

PROFILE VIEW - CRUSHED STONE FOOTING
(No Scale)

d/2 OR 6" (MINIMUM)

PROFILE VIEW - CONCRETE FOOTING
(No Scale)

d/2 OR 6" (MINIMUM)