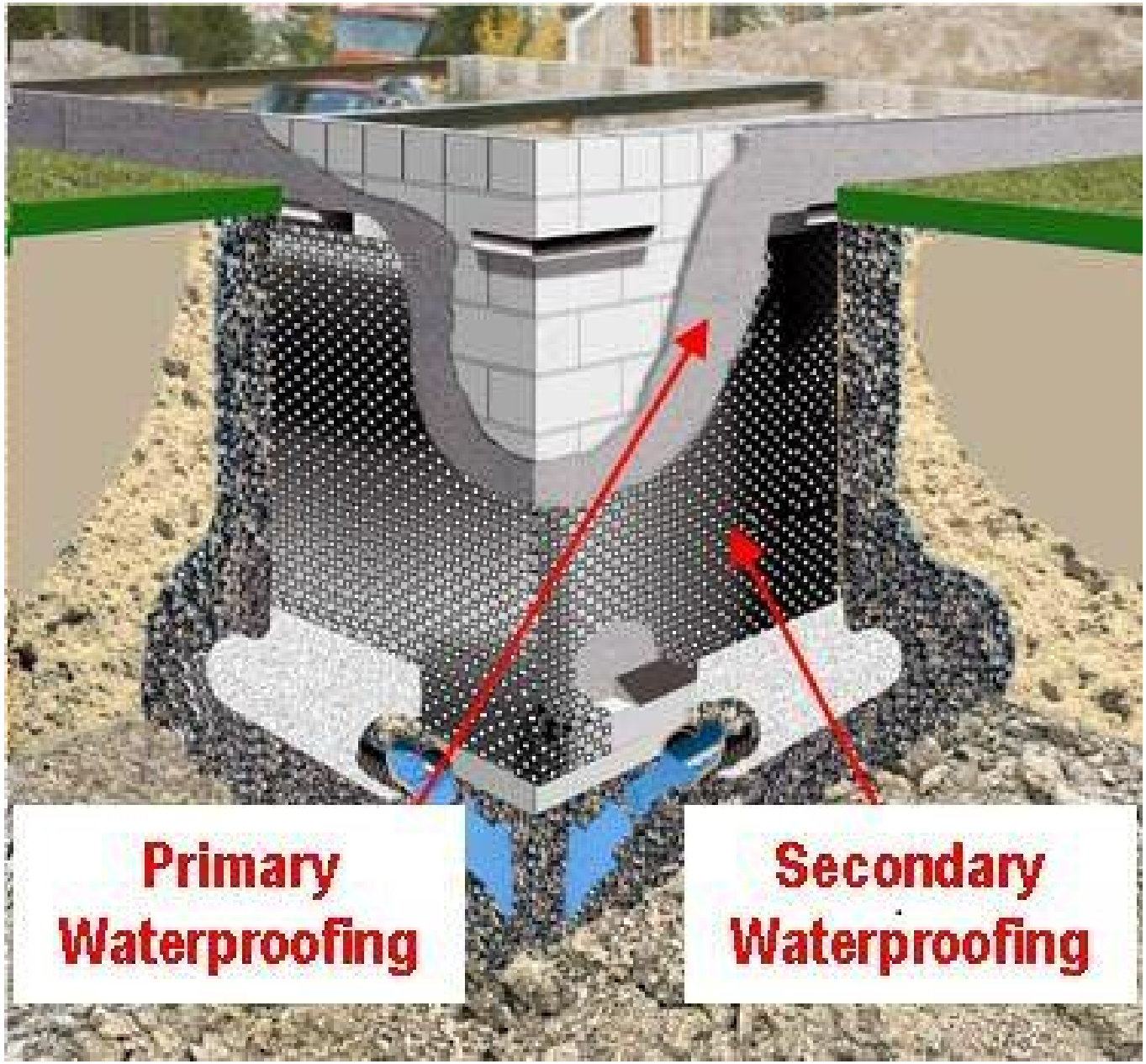
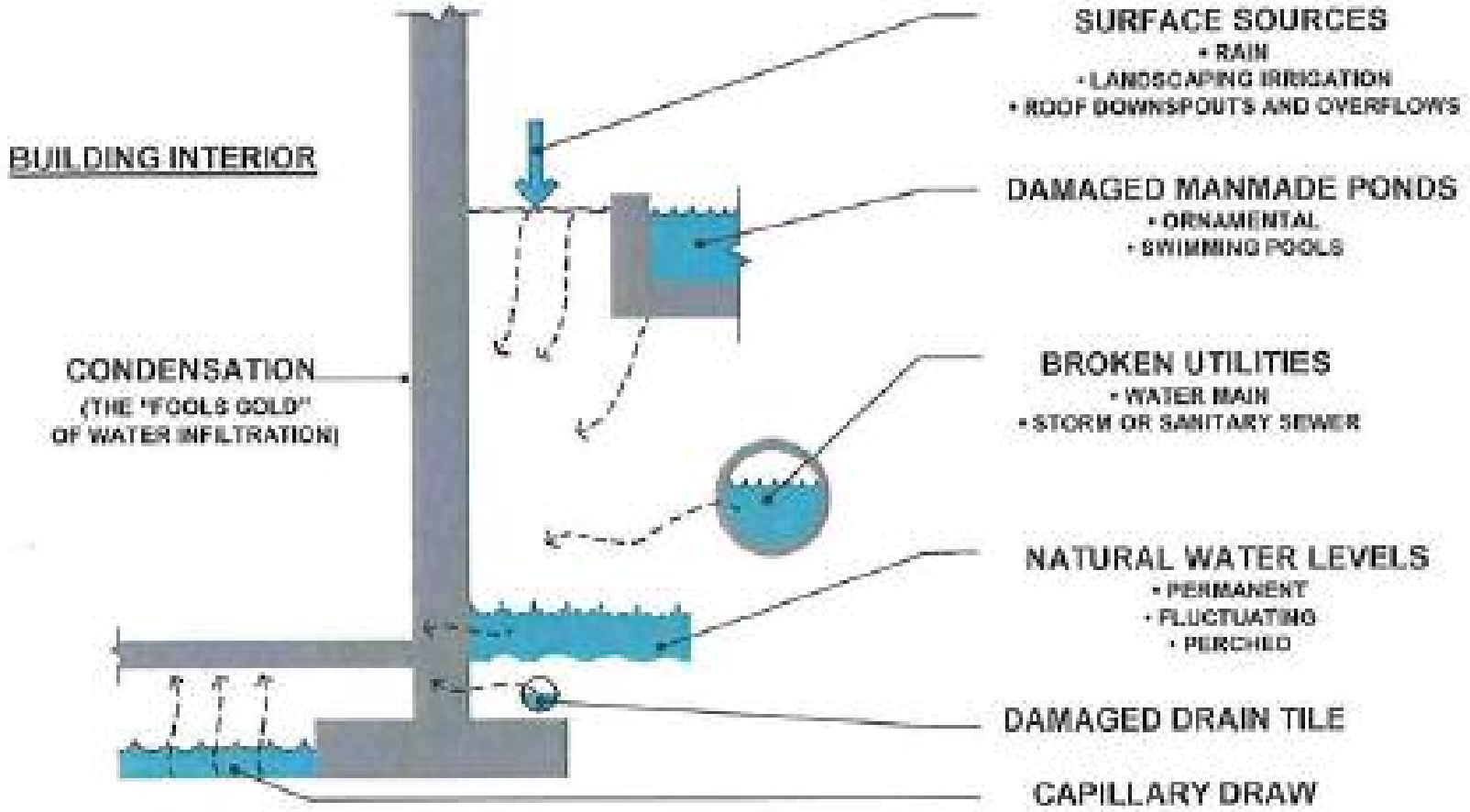
Diagrams to assist with

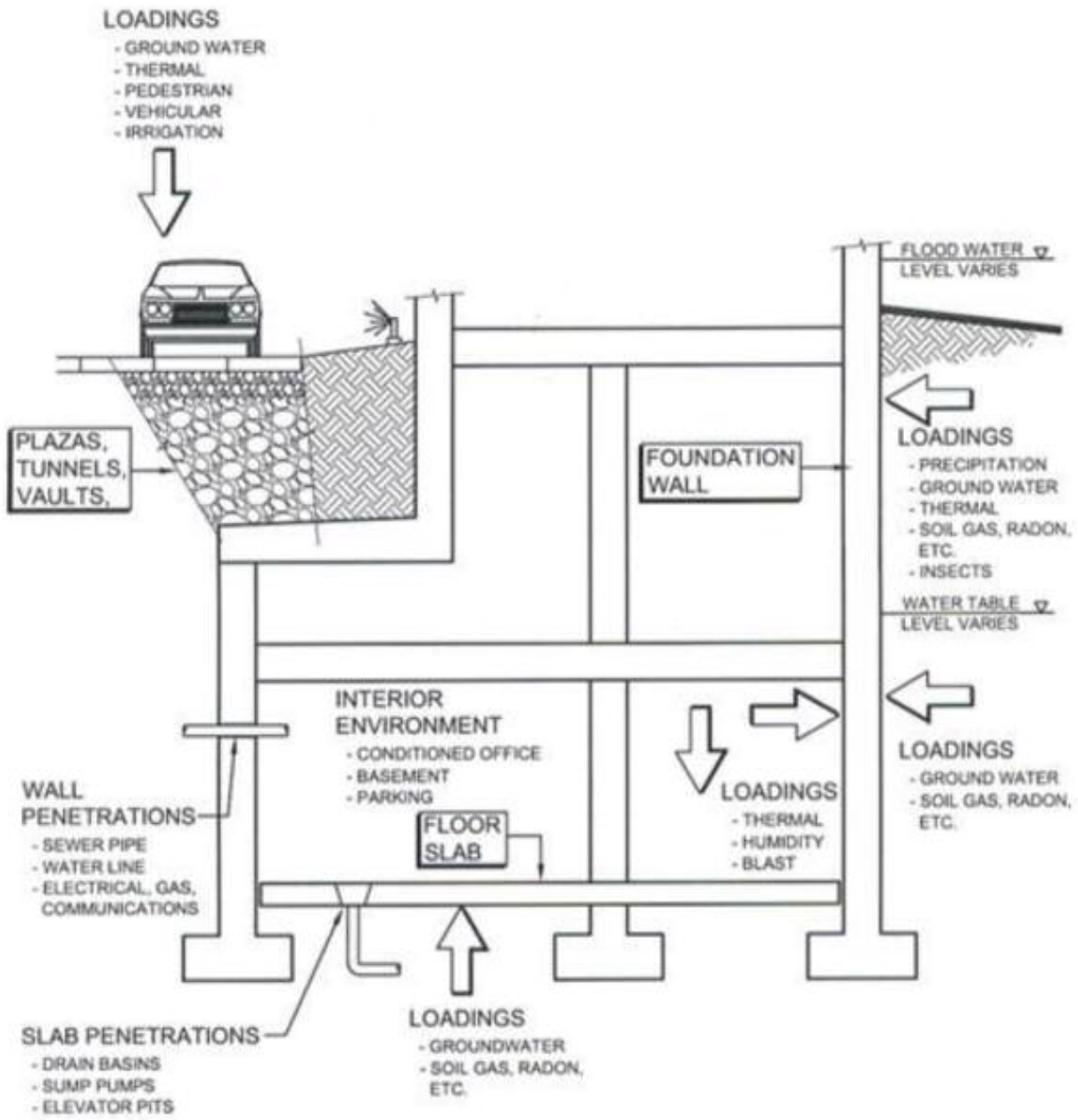
BELOW GROUND WATERPROOFING


Primary
Waterproofing
Secondary
Waterproofing

Waterproofing Basics

Sources of below-ground moisture

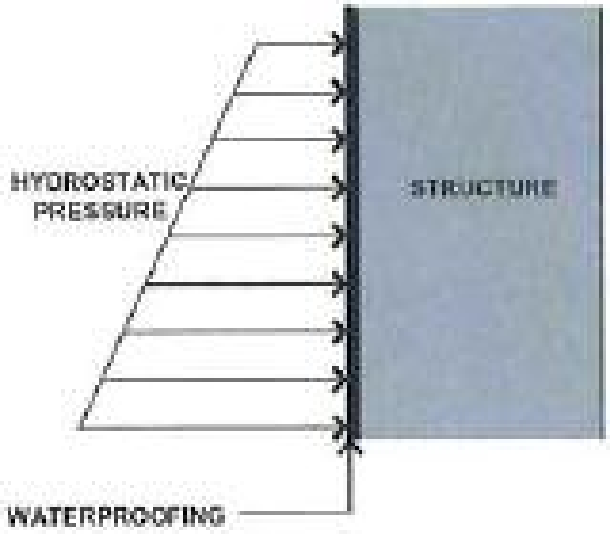


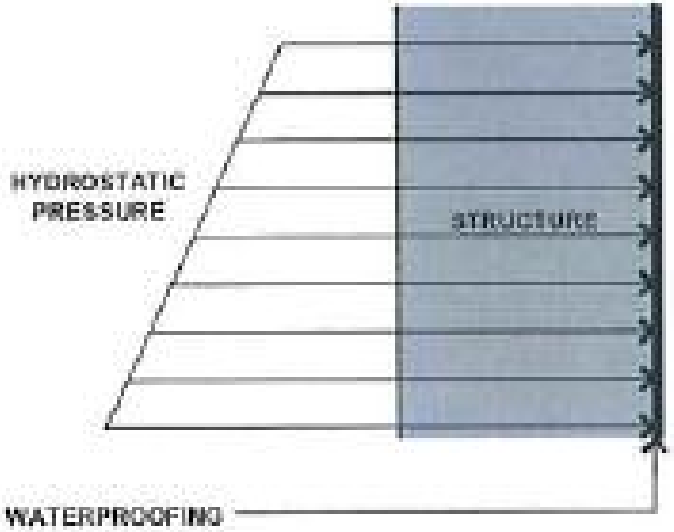


. Below Grade Building Systems Schematic

Waterproofing Basics

Positive side vs. negative side waterproofing



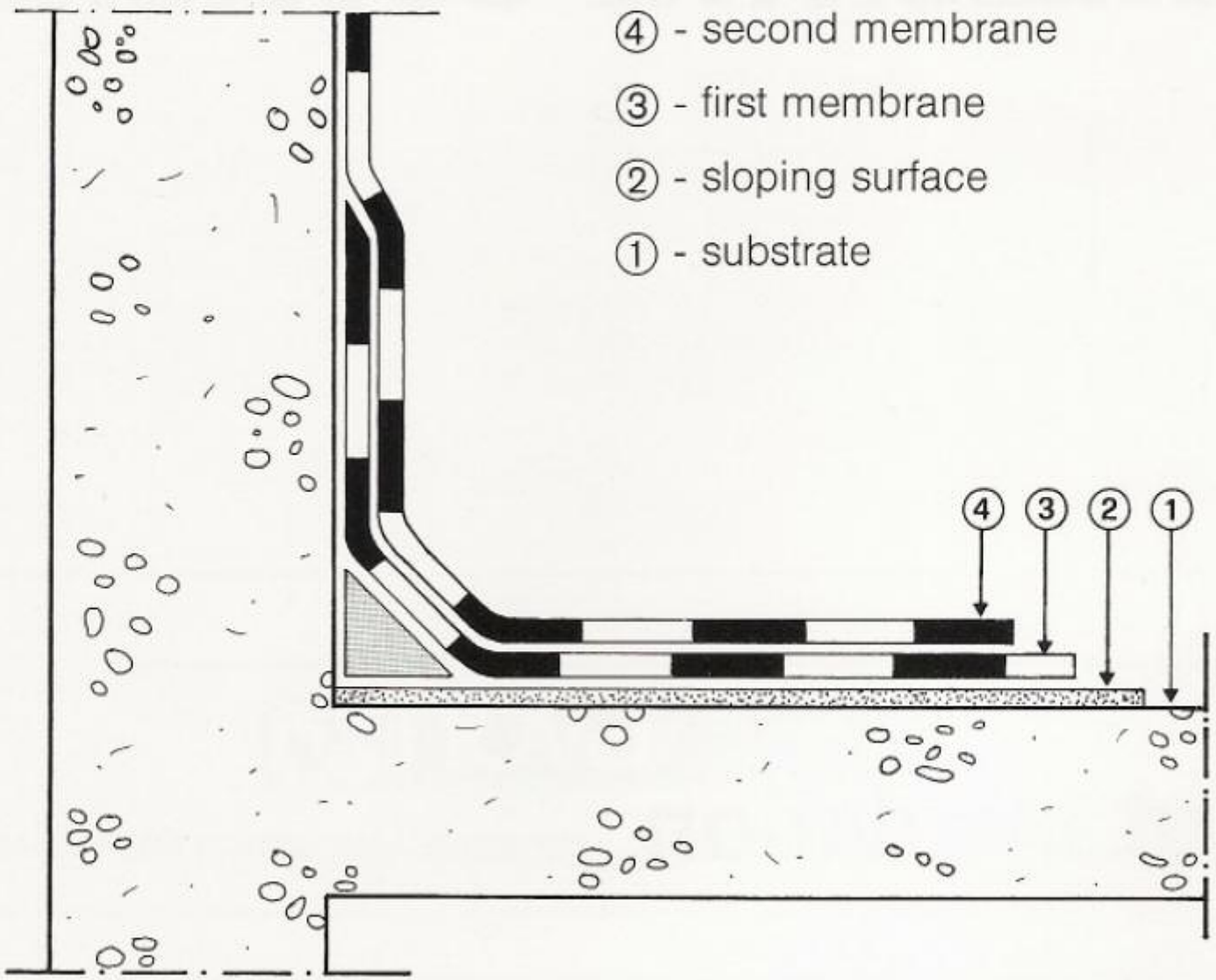


POSITIVE SIDE WATERPROOFING
(Most Common)

- BACKFILLED WALLS
- BLINDSIDE WALLS
- PLAZA ROOFING
- EARTH-COVERED ROOFS

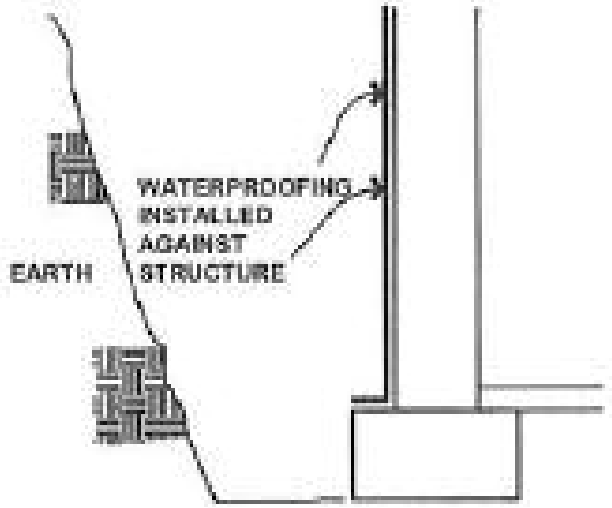
NEGATIVE SIDE WATERPROOFING

- INTERIOR REPAIR

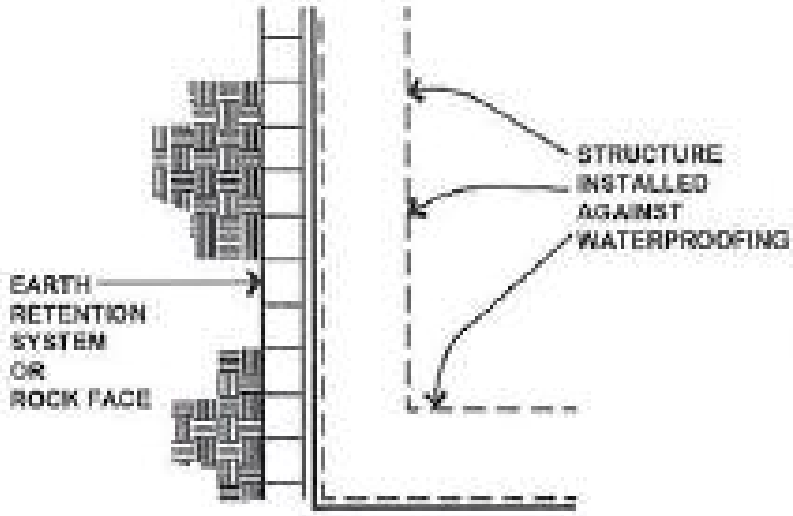

④ - second membrane
③ - first membrane
② - sloping surface
① - substrate
4
3
2
1

Waterproofing Basics

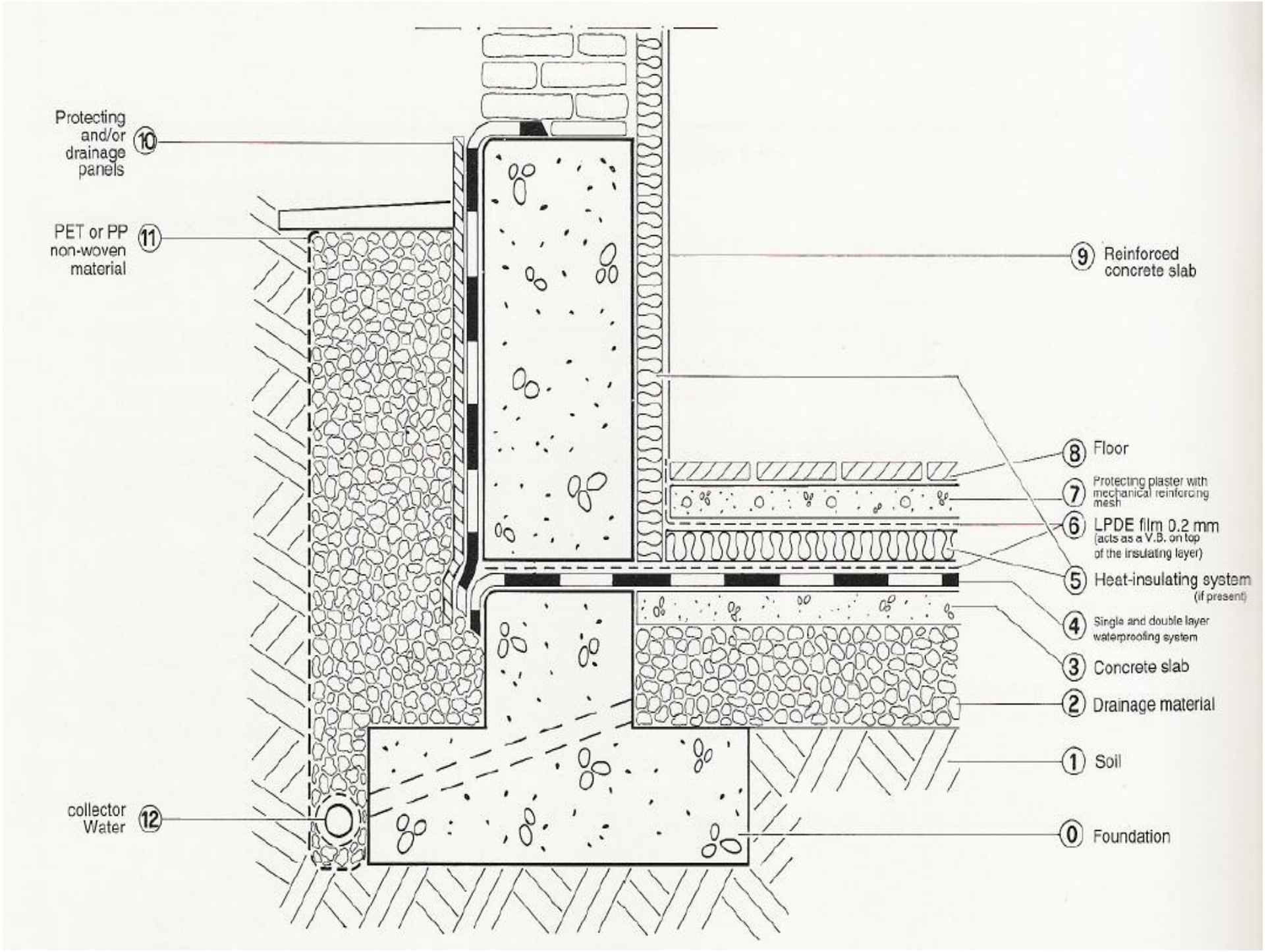
Positive side waterproofing



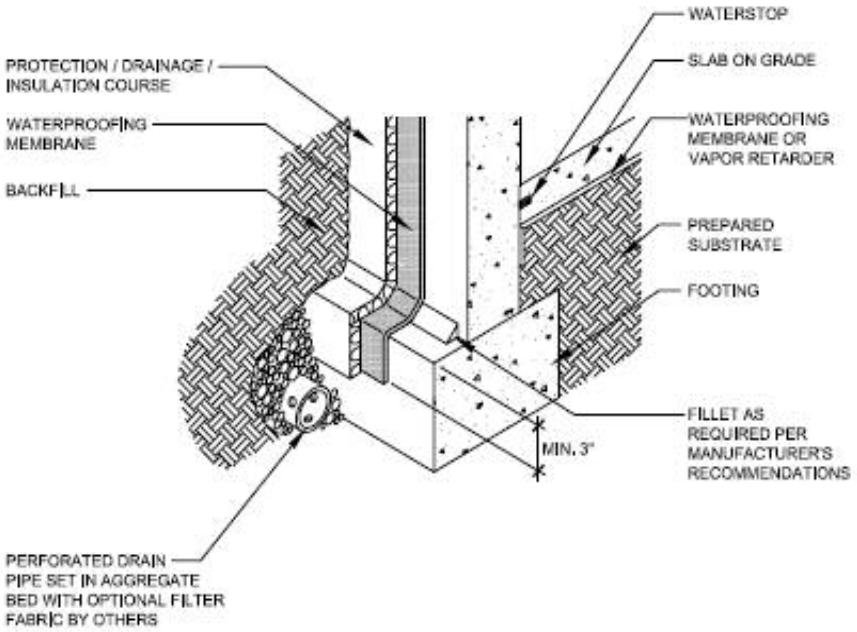
BACKFILLED
WATERPROOFING

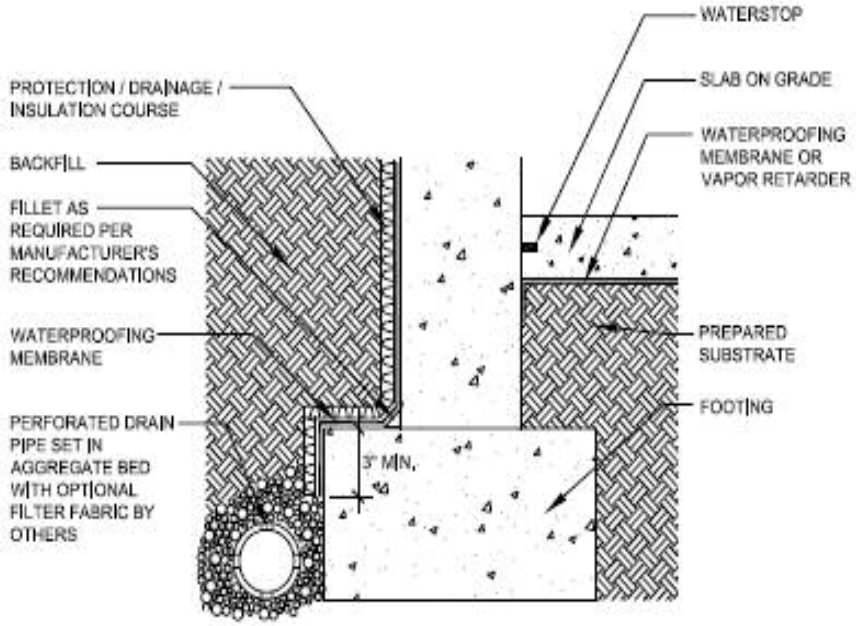


BLINDSIDE
WATERPROOFING

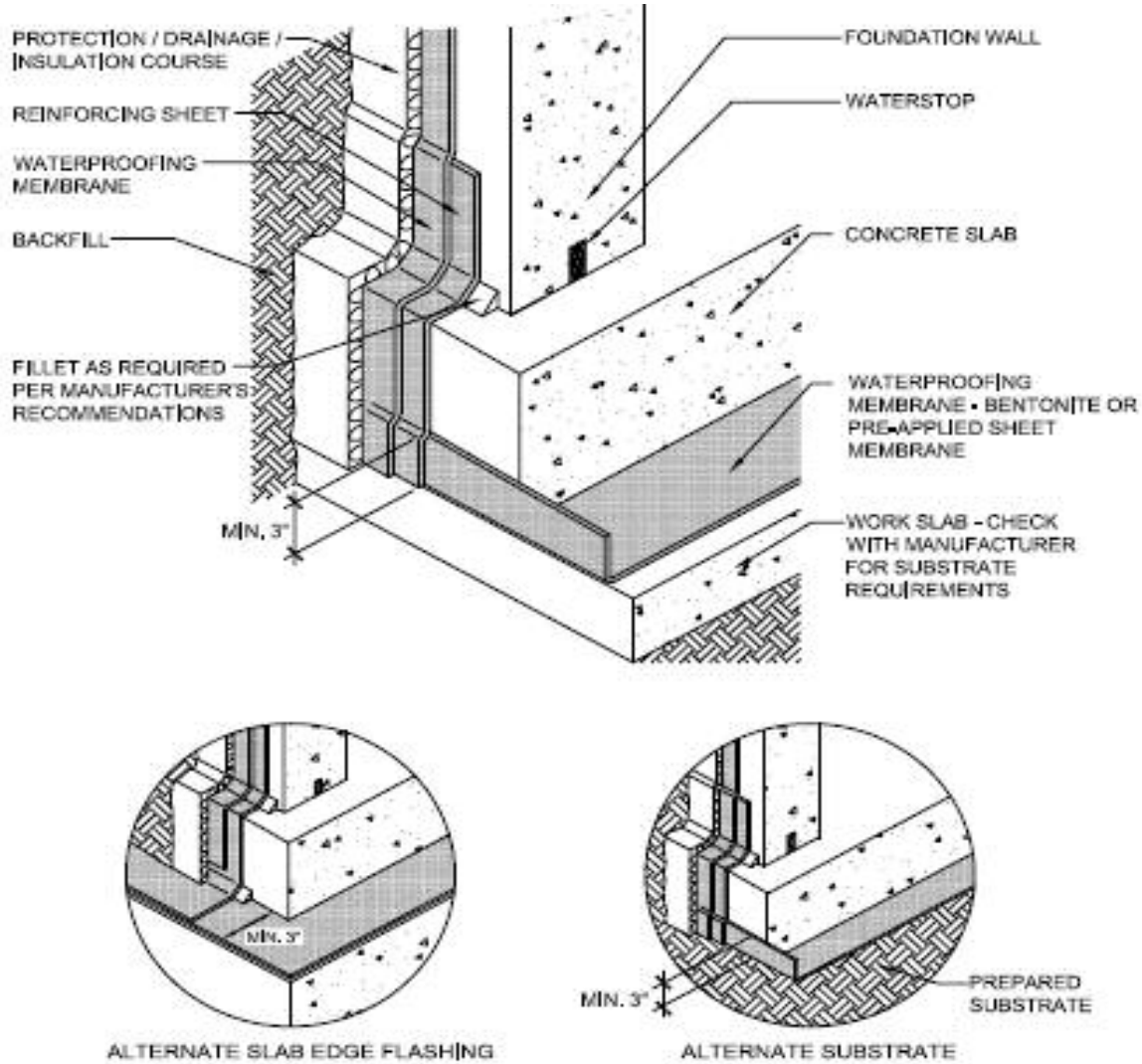

Protecting and/or drainage panels
10
PET or PP non-woven material
11
collector Water
12
9 Reinforced concrete slab
8 Floor
7 Protecting plaster with mechanical reinforcing mesh
6 LPDE film 0.2 mm (acts as a V.B. on top of the insulating layer)
5 Heat-insulating system (if present)
4 Single and double layer waterproofing system
3 Concrete slab
2 Drainage material
1 Soil
0 Foundation

Foundation wall with drainage system

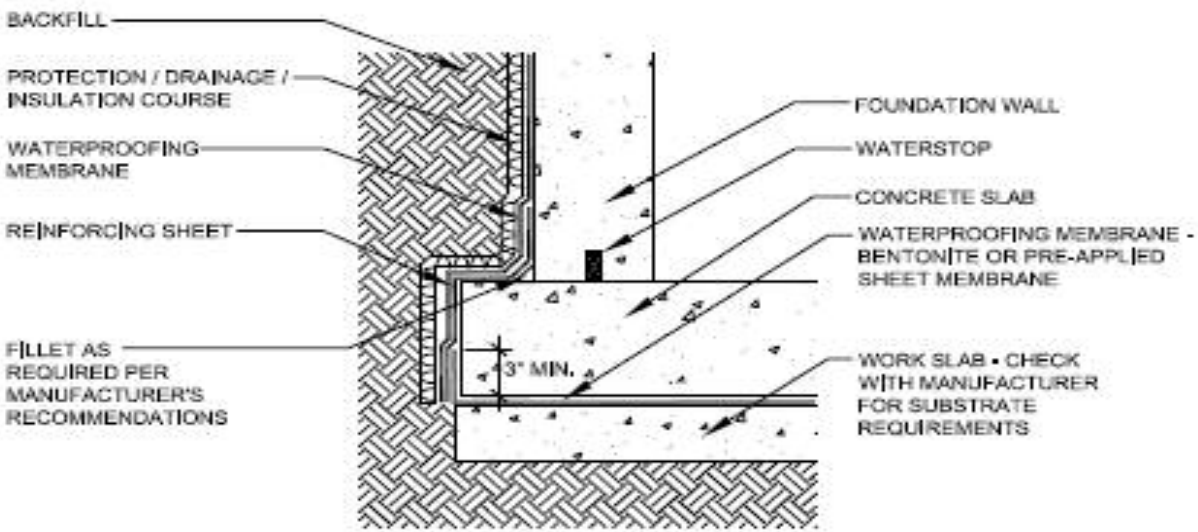


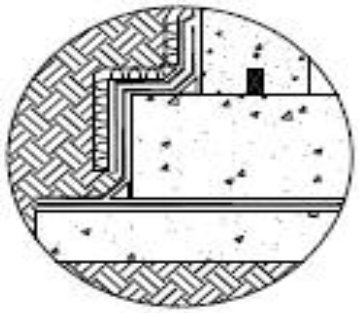


Foundation wall with slab below ground (1)

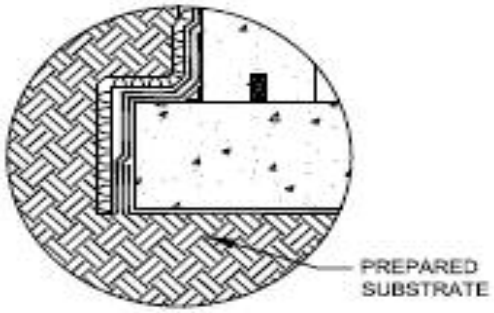


Foundation wall with slab below ground (2)



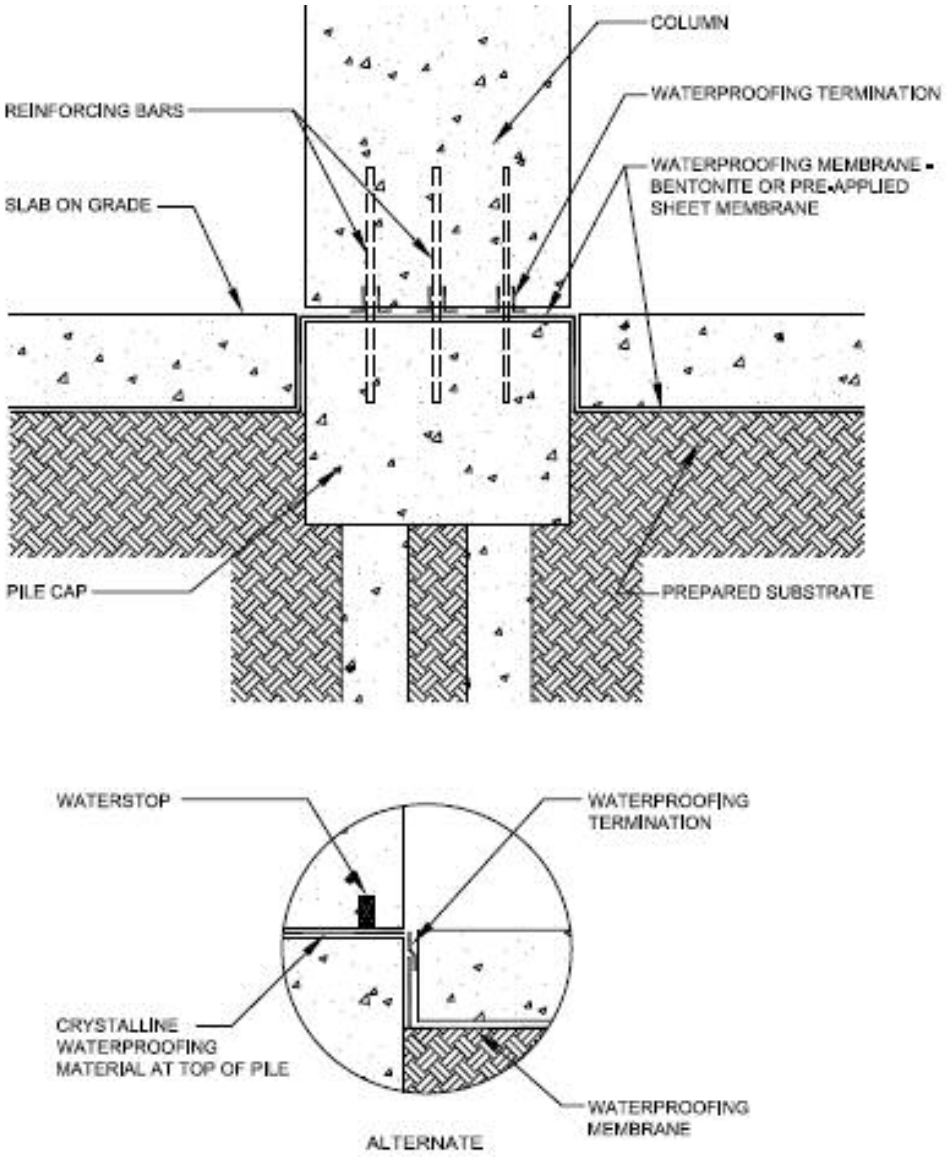


ALTERNATE SLAB EDGE FLASHING

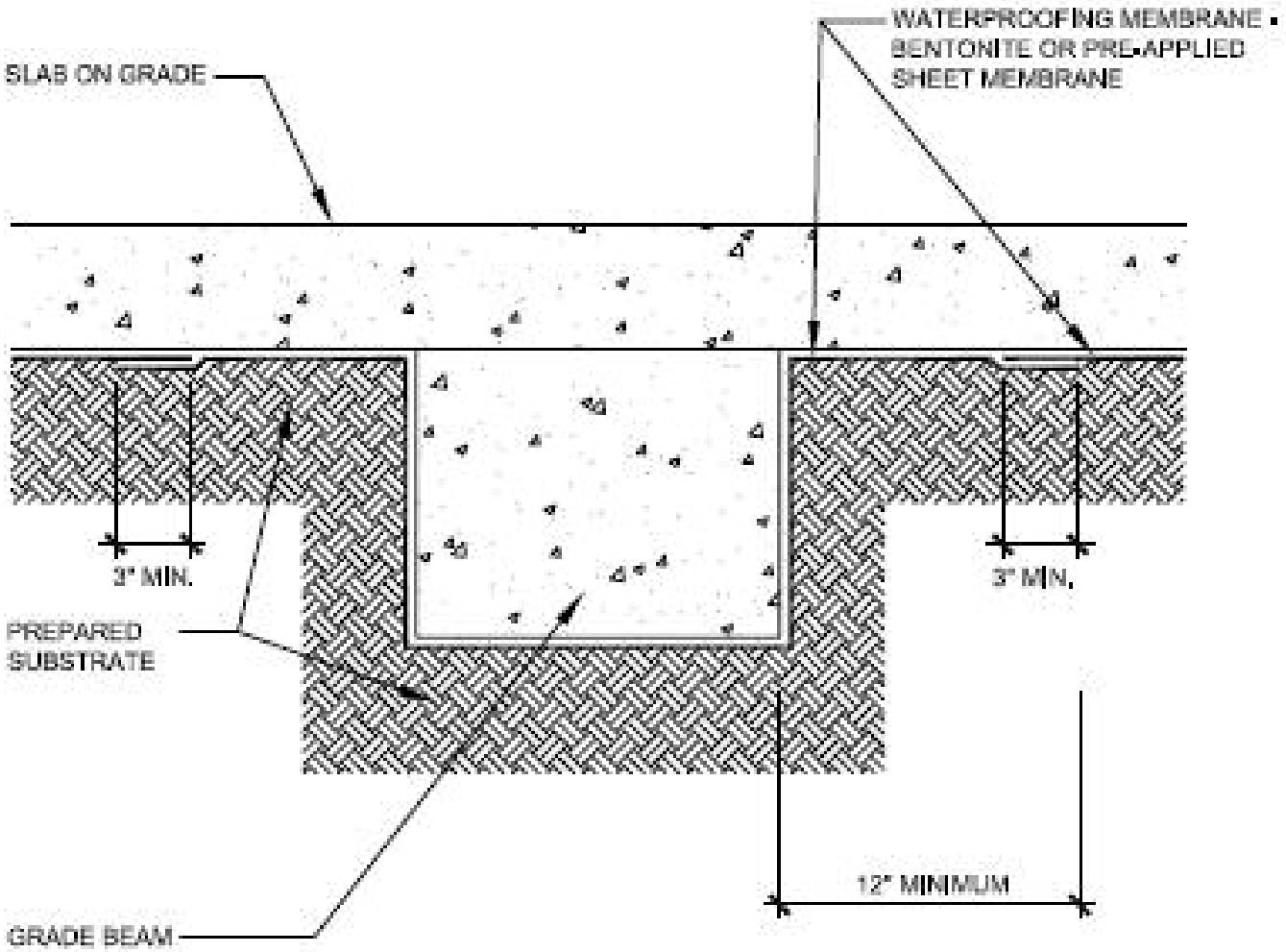


ALTERNATE SUBSTRATE

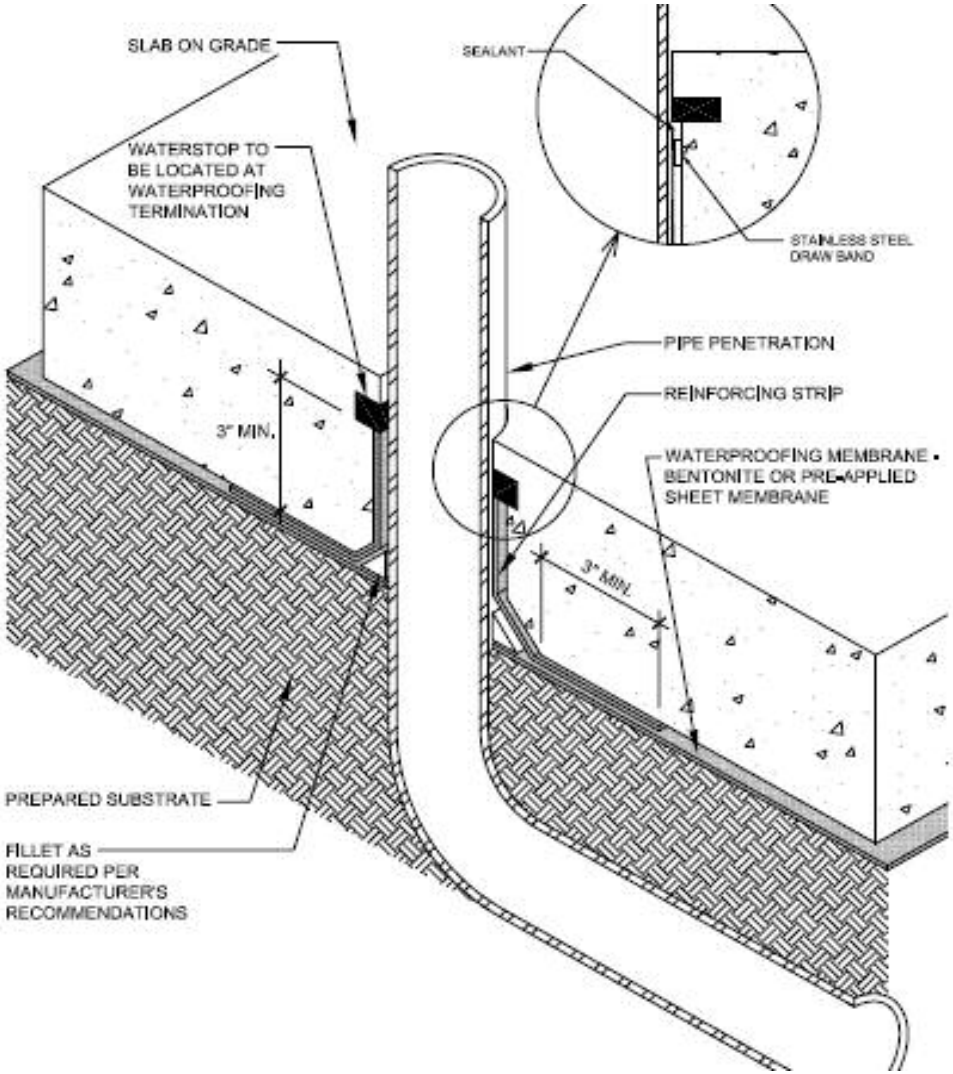
Pile cap waterproofing



Field grade beam waterproofing

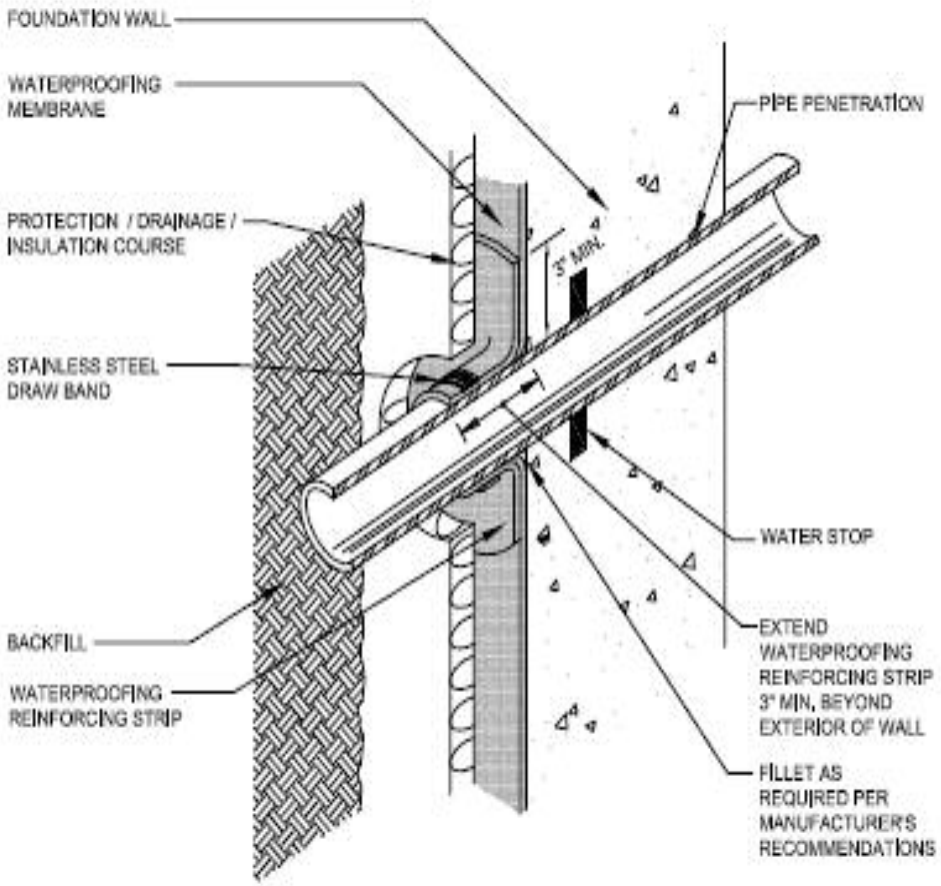


Vertical penetration for below grade membrane



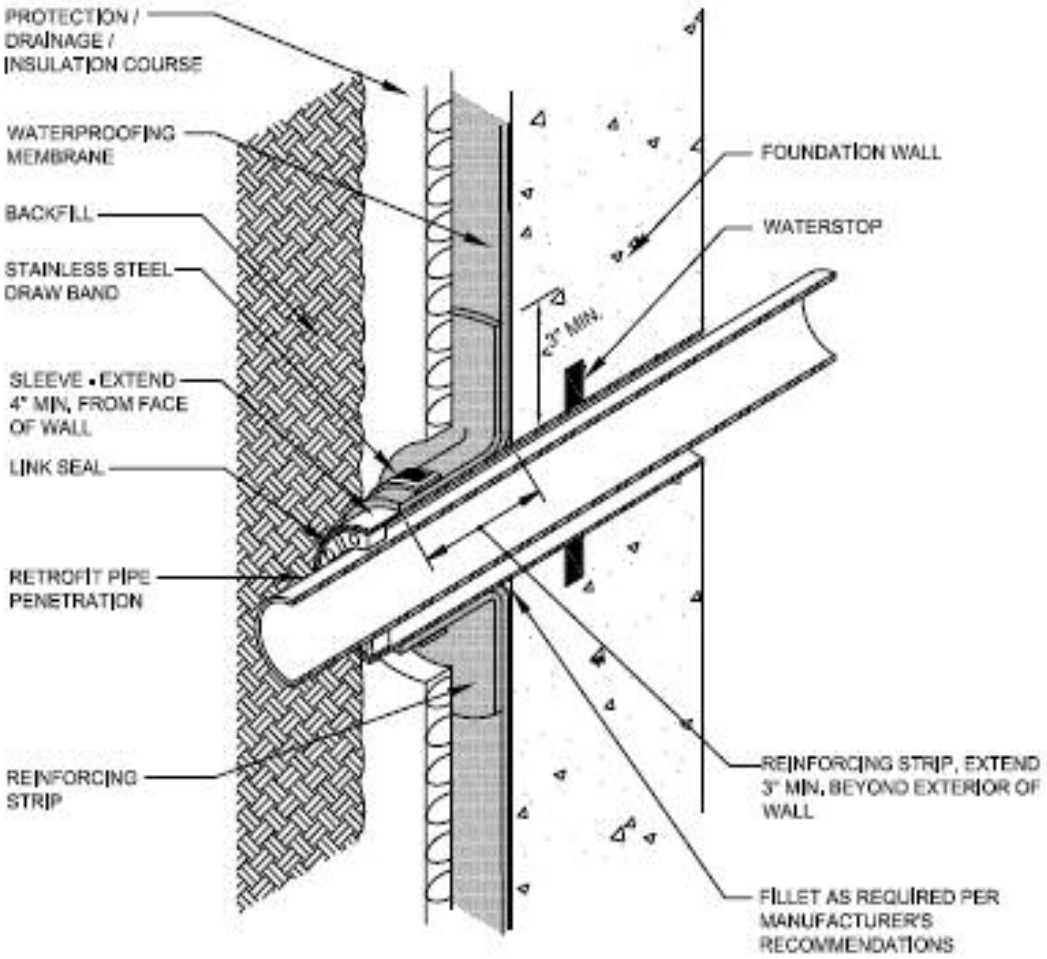
N.B: All penetrations should be 300mm from walls, curbs, up stands, and be placed a minimum of 300mm apart.

Foundation wall with poured in place pipe penetration



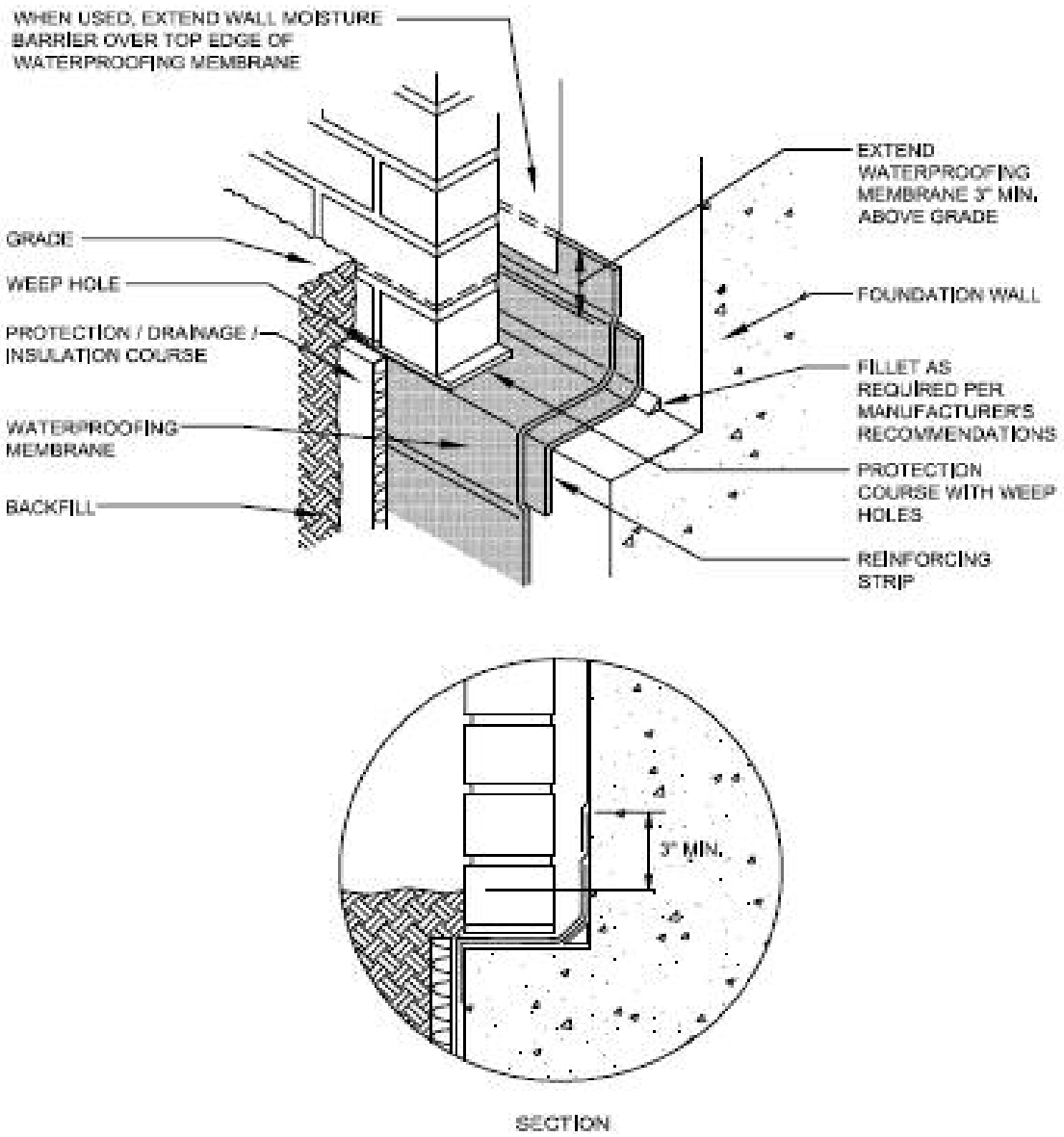
N.B: All penetrations should be 300mm from walls, curbs, up stands, and be placed a minimum of 300mm apart.

Pipe sleeve penetration detail



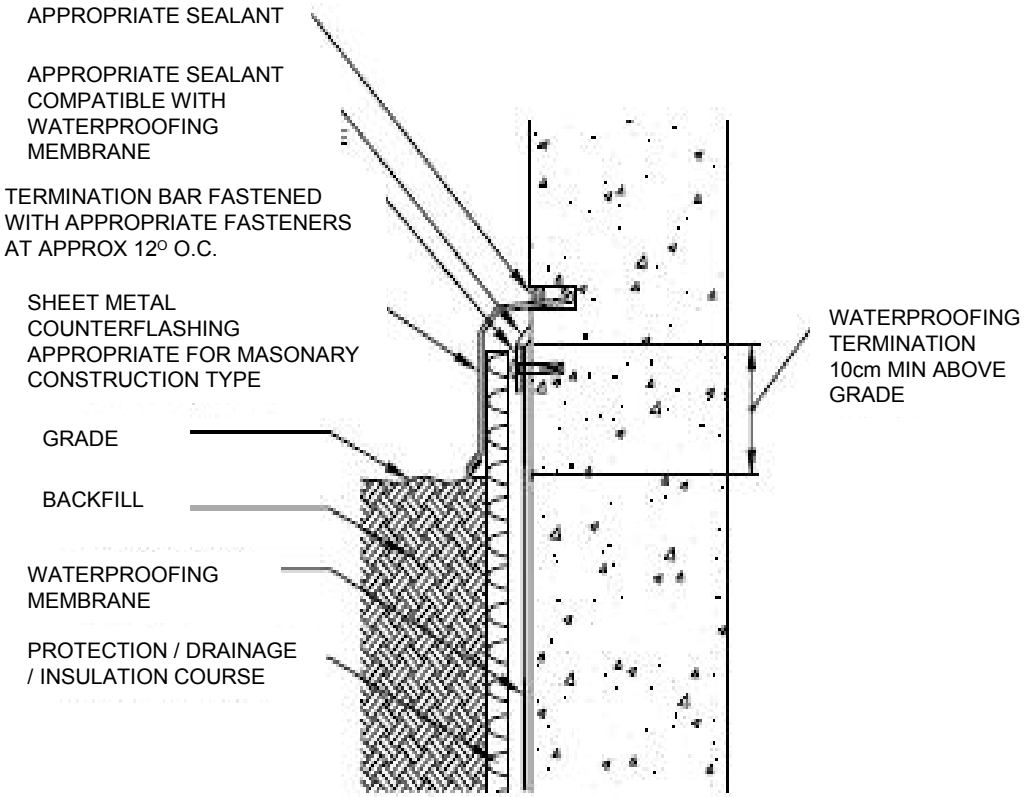
N.B: All penetrations should be 300mm from walls, curbs, up stands, and be placed a minimum of 300mm apart.

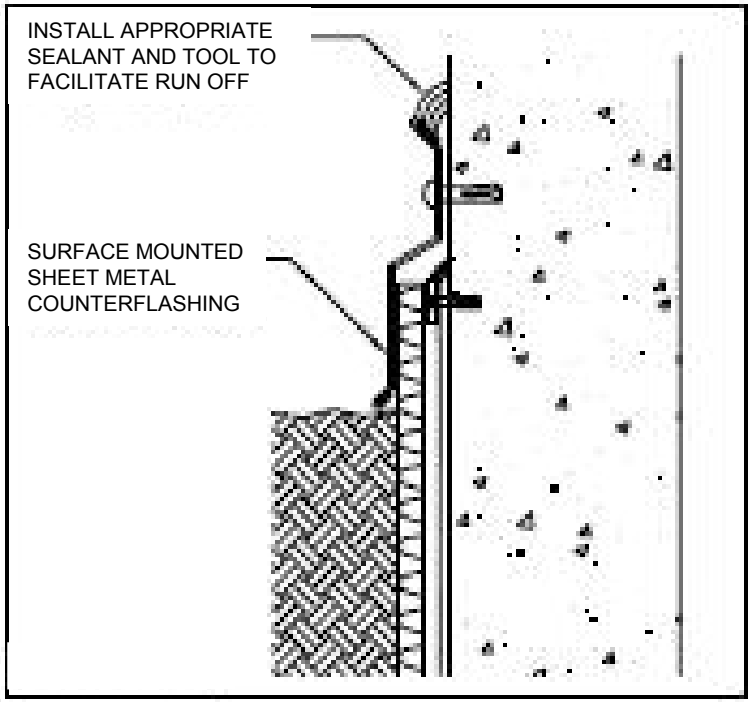
Foundation wall – brick ledge termination



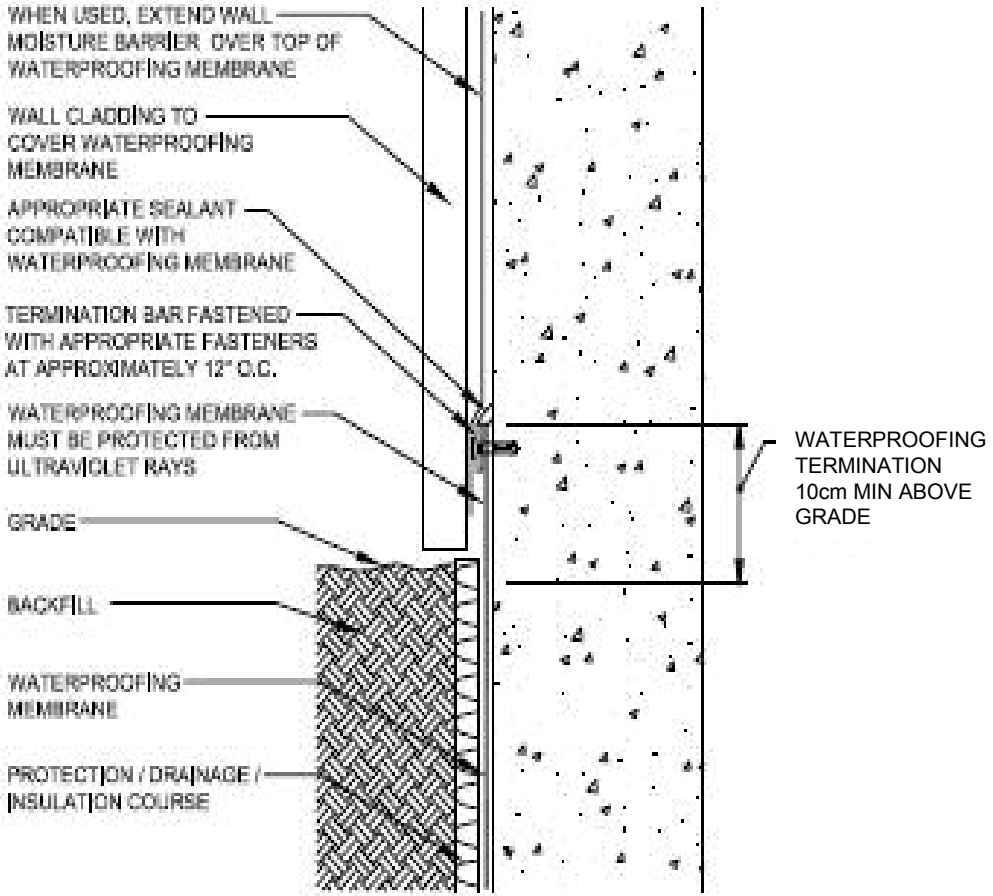
N.B: All penetrations should be 300mm from walls, curbs, up stands, and be placed a minimum of 300mm apart.

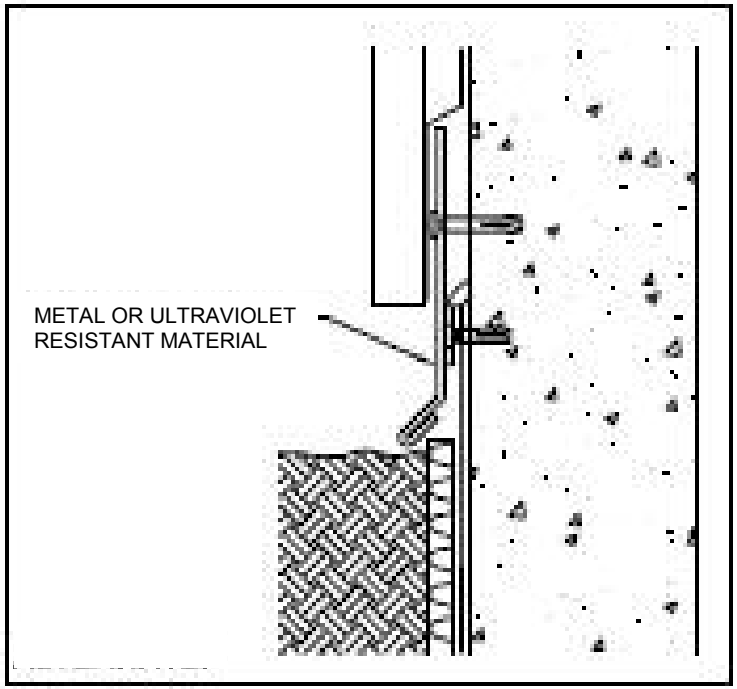
Waterproofing termination at ground



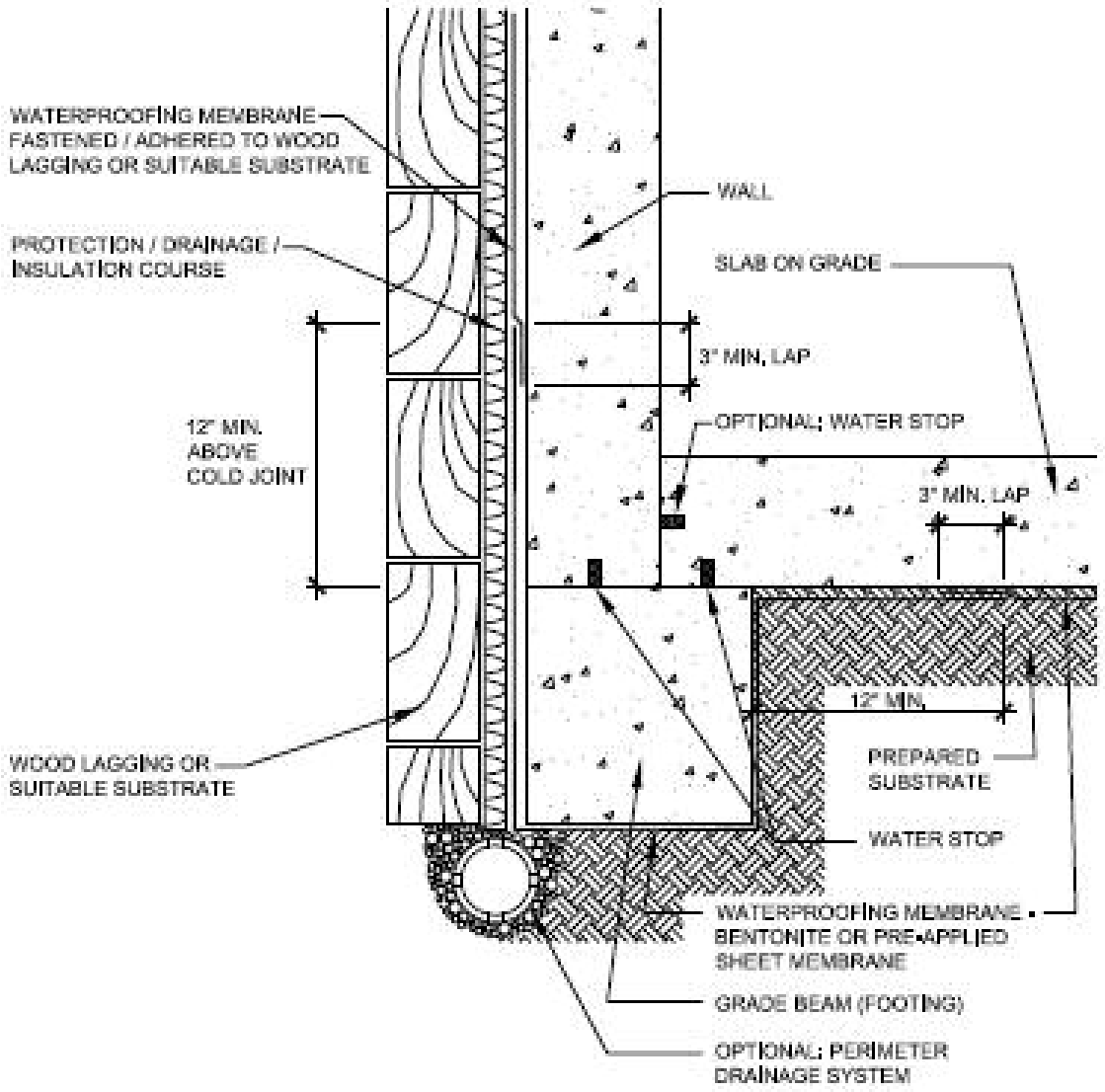


Foundation wall – exterior cladding tie-in

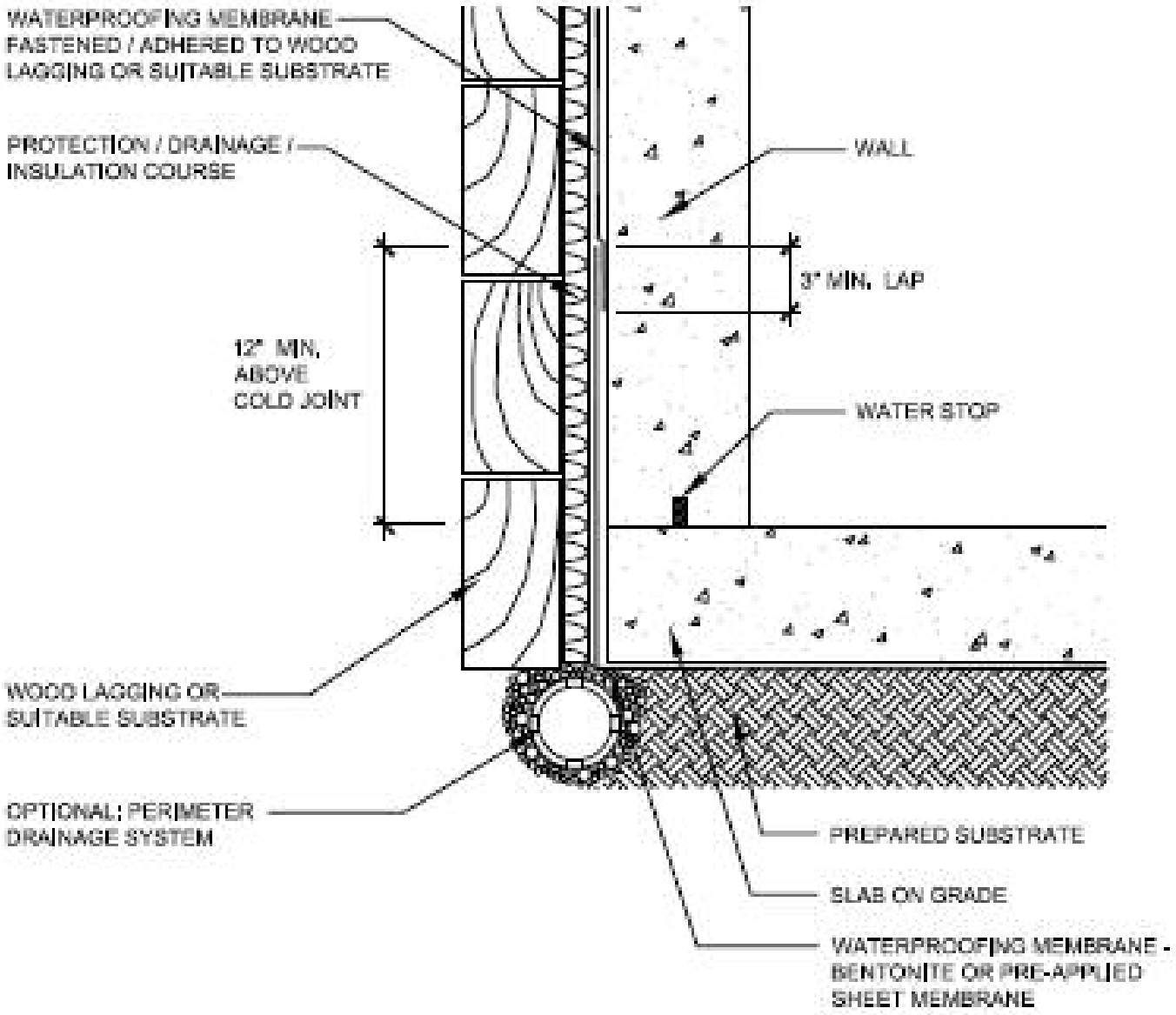




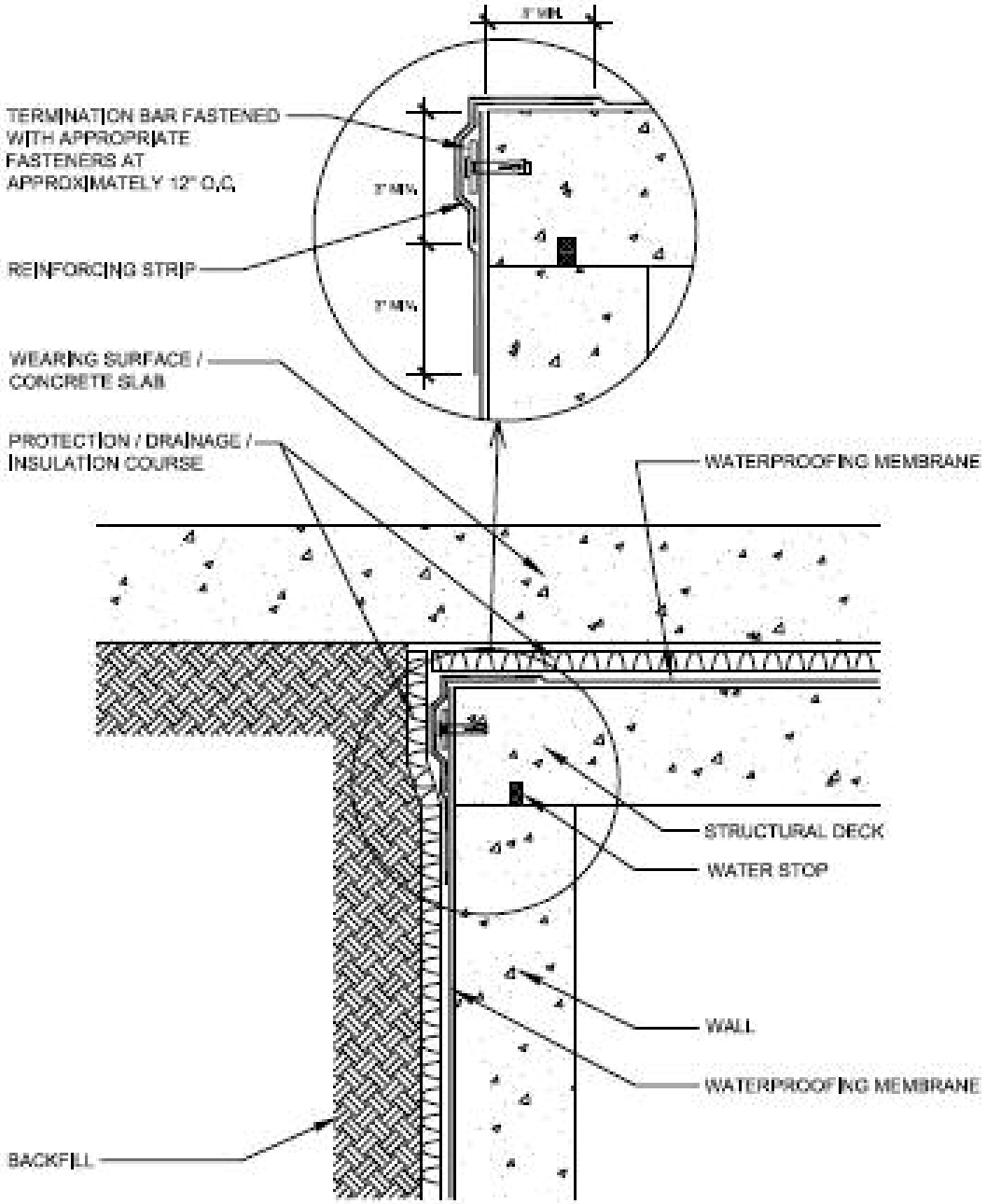
Blind side waterproofing at ground beam



Blind side waterproofing at slab



Perimeter edge detail at ground compatible materials



Perimeter edge detail at ground – dissimilar materials