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SECTION SIX

**OTHER  
APPLICATIONS OF  
PREFABRICATED  
REINFORCEMENT**

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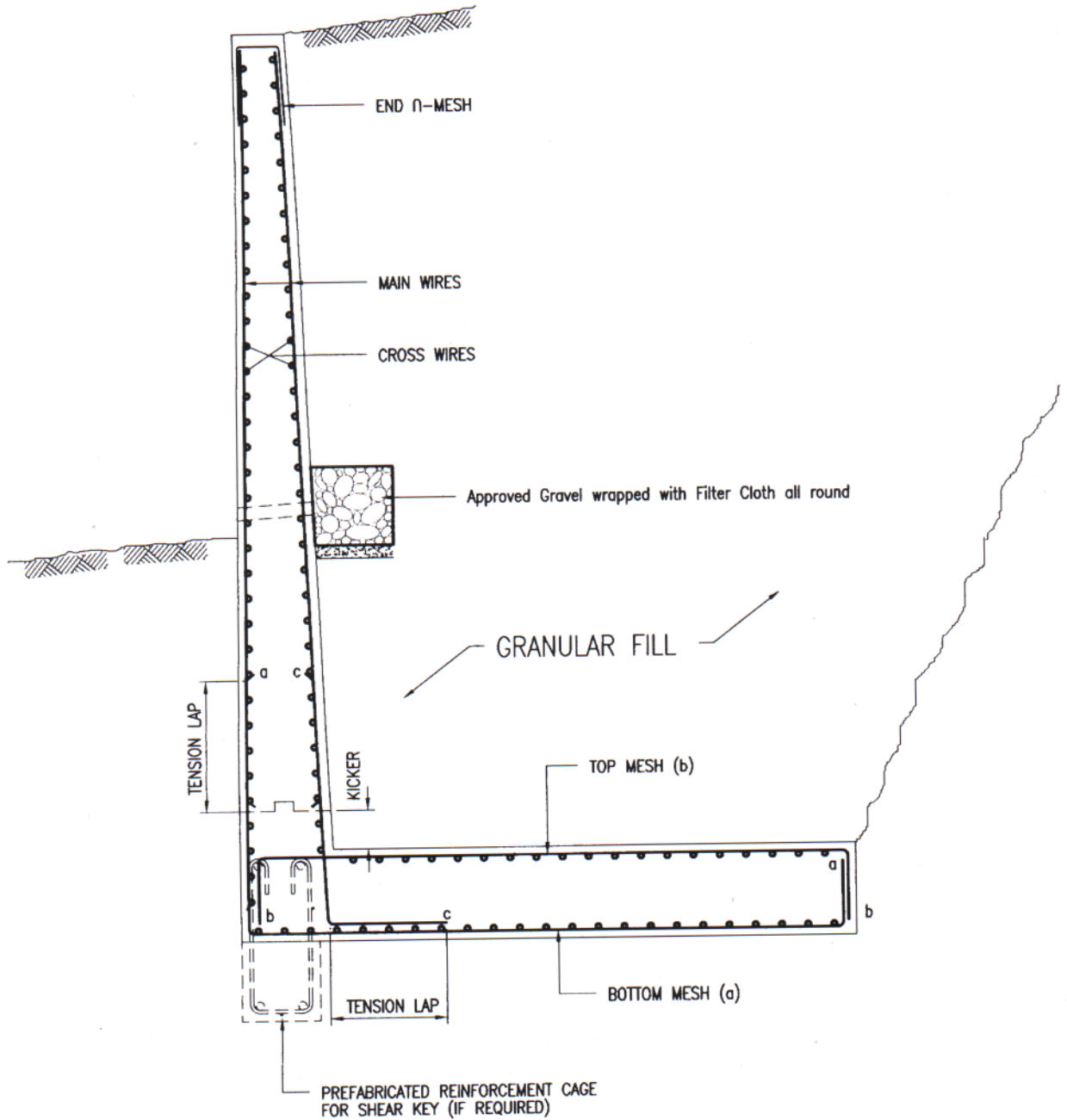
## SECTION SIX : OTHER APPLICATIONS OF PREFABRICATED REINFORCEMENT

This Sections provides general detailing for various structural reinforced concrete elements which prefabricated reinforcement bars by manual fabrication and/or welded wire fabric could be adopted.

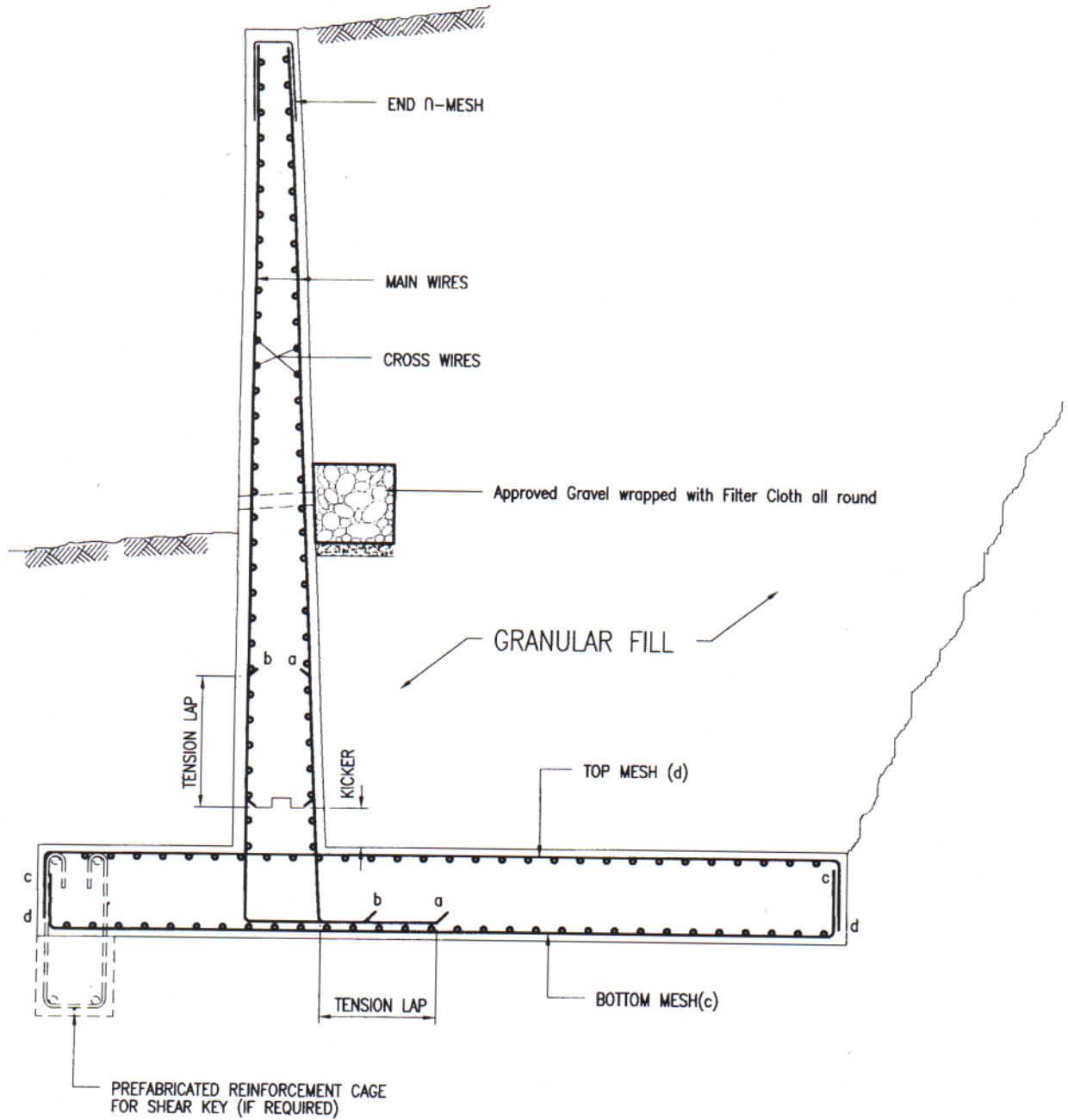
### **6.1 General Notes On Applications**

1. Standard series of welded wire fabric are widely specified by engineers for use in non-suspended ground slabs, suspended floor slabs, building walls, external retaining walls, strip and pad footings, box-culverts, open and closed drains and any other reinforced concrete structural elements and architectural features such as fin and parapet walls. Such structural components could be in the forms of precast, prestressed or cast-in-situ elements.
2. Where standard mesh does not meet a particular design requirement, custom-made welded wire fabric termed as "Designer" or "Engineered" series can be manufactured by specialist suppliers upon engineer's request and early consultation.
3. Similarly, to reduce site wastage, overcome tight working space and increase productivity and speed on construction as well as when fabric could not meet the design requirement for higher reinforcement content, prefabricated reinforcement bars cage to be factory-made prior sending to project sites for such structural elements could be made.
4. Engineer shall liaise with specialist suppliers and fabricators on the feasible cage to meet lifting, lapping and installation requirements.
5. Engineer may consider to use structural couplers, if need arises, to meet lapping, lifting and installation requirements on site.

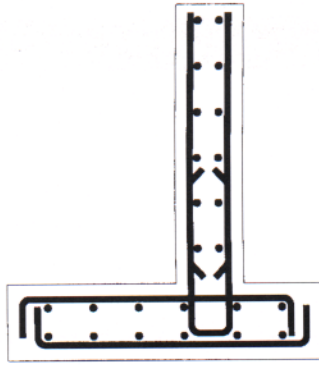
## 6.2 Retaining Wall



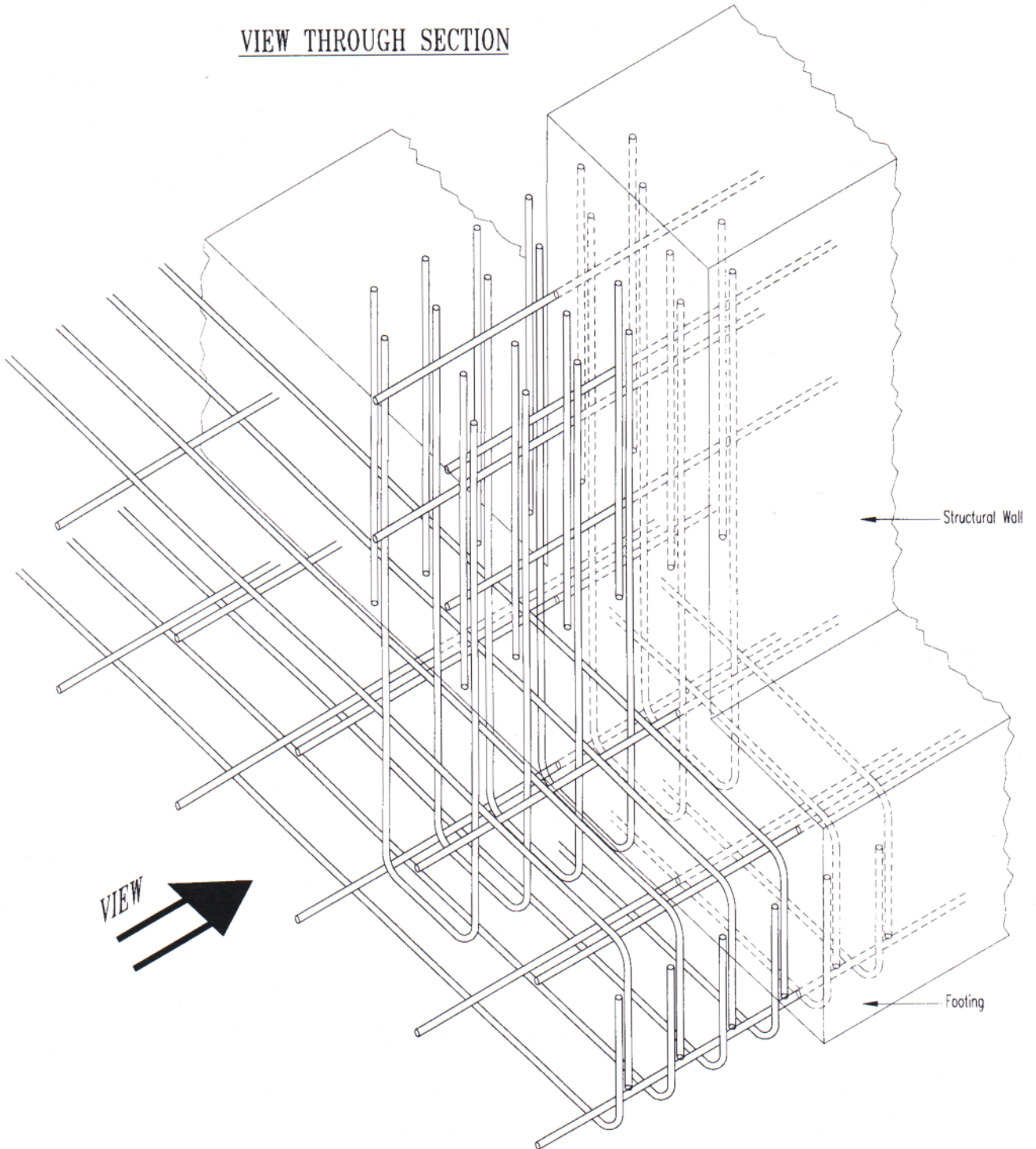
**EXAMPLE (1) : TYPICAL SECTION OF RETAINING WALL**



**EXAMPLE (2) : TYPICAL SECTION OF RETAINING WALL**

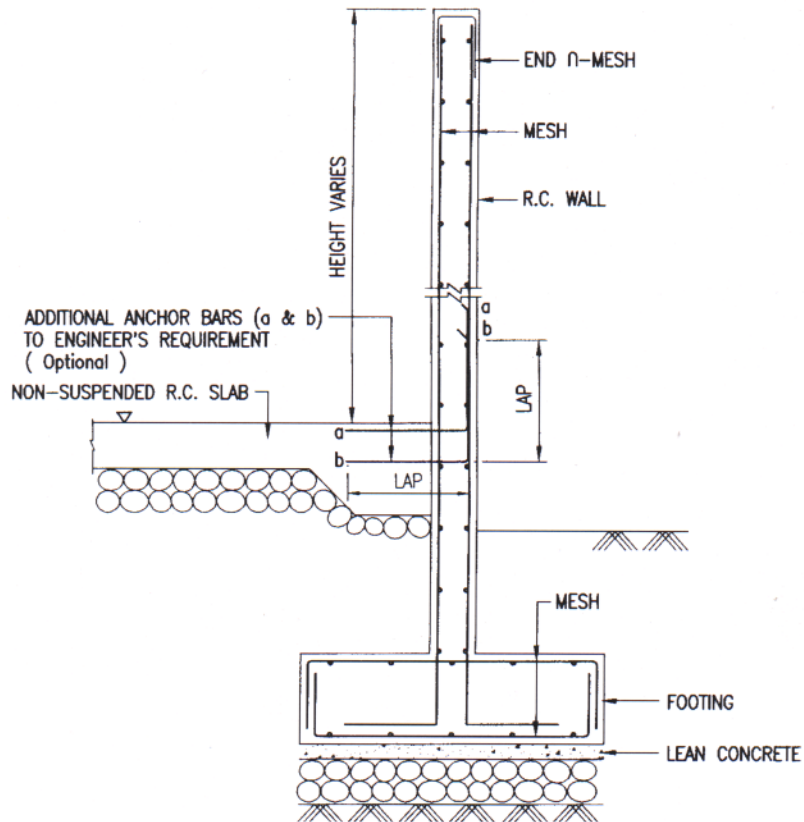
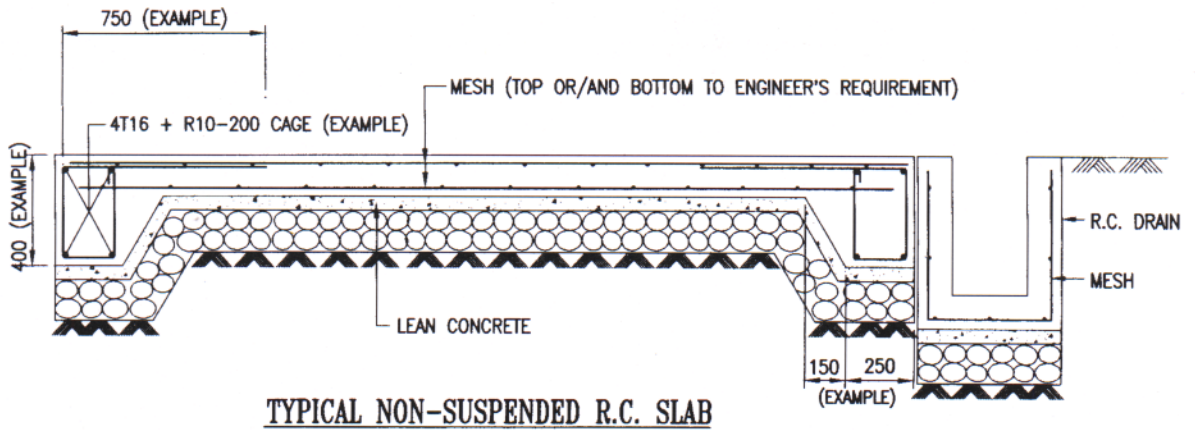


VIEW THROUGH SECTION



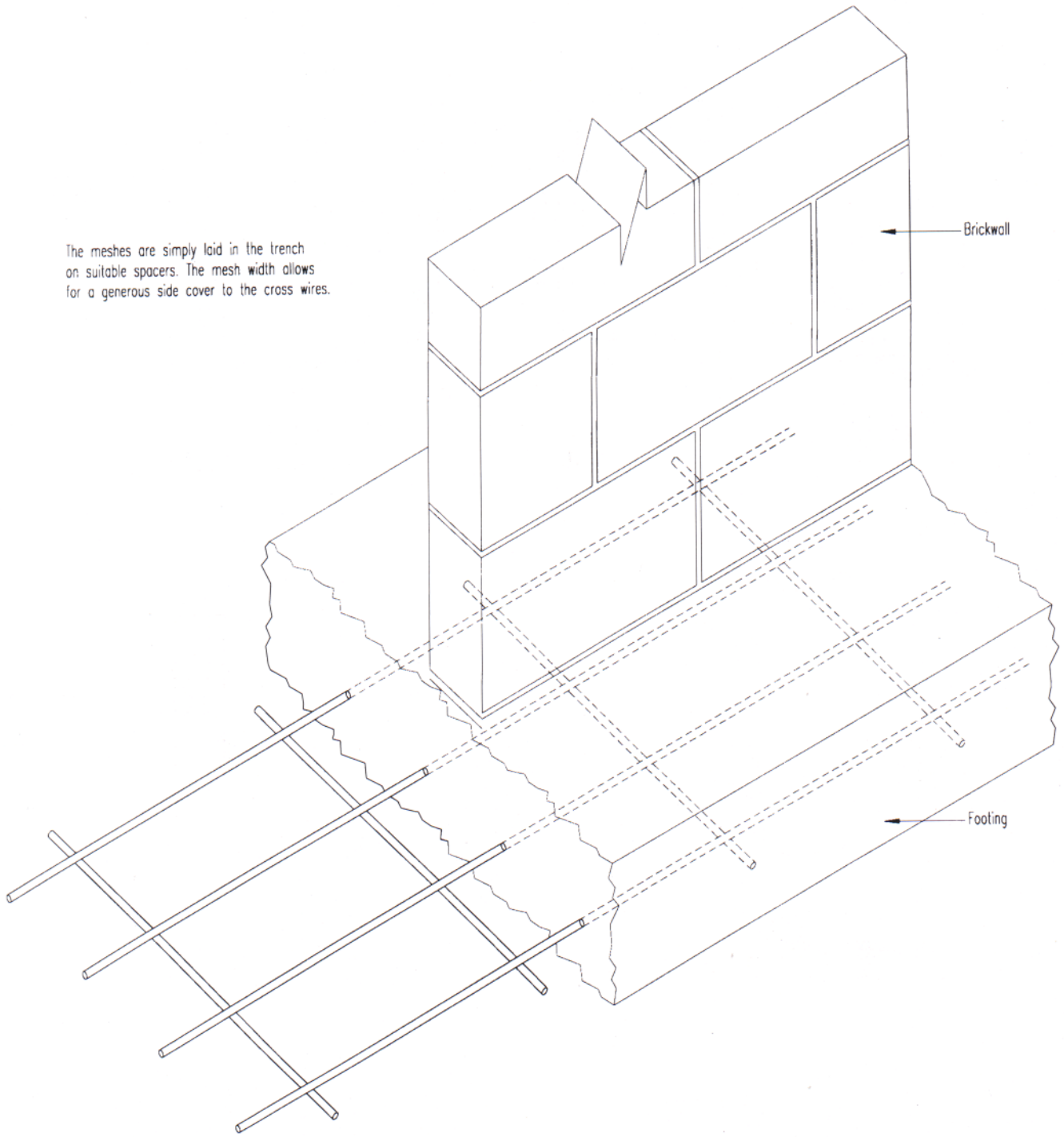
STRUCTURAL WALL AND FOOTING

## 6.3 Non-Suspended Slab And Footing



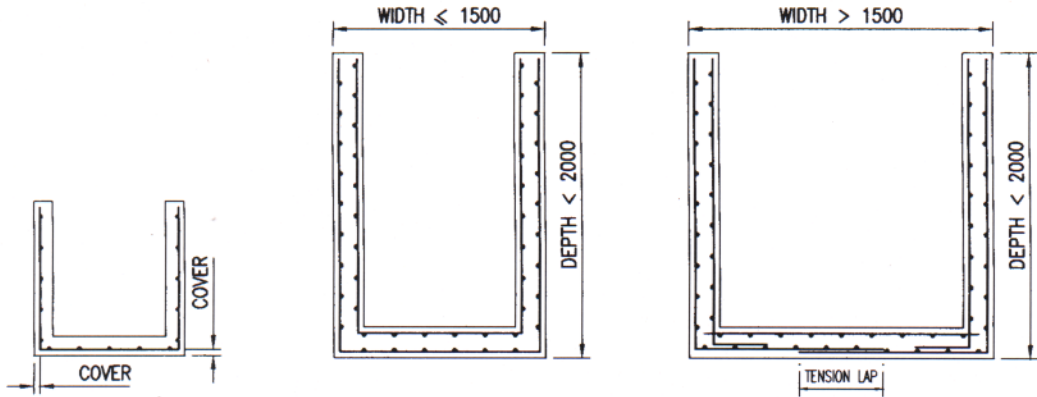
**TYPICAL DETAIL FOR STRIP FOOTING & EXTERNAL R.C. FASCIA WALL**

The meshes are simply laid in the trench on suitable spacers. The mesh width allows for a generous side cover to the cross wires.



BRICKWALL AND FOOTING

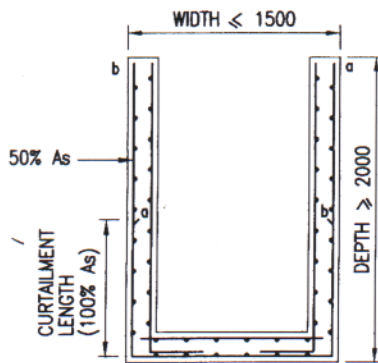
## 6.4 Drain And Box Culvert



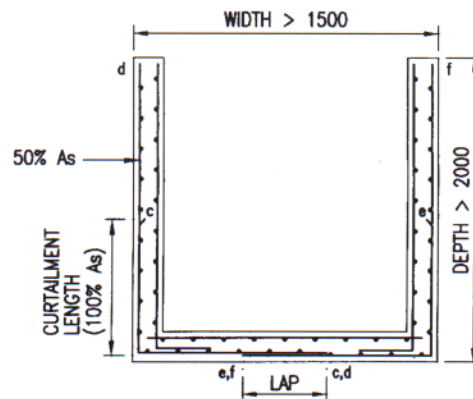
**Type '1'**  
1 U-BEND MESH

**Type '2'**  
2 U-BEND MESH

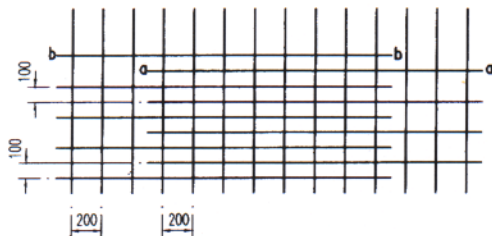
**Type '3'**  
4 L-BEND MESH & 1 FLAT SHEET



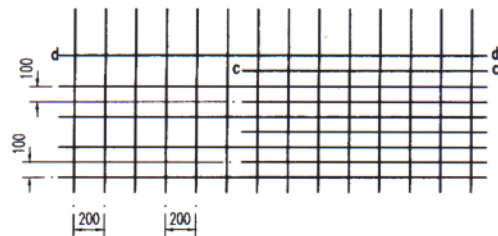
**Type '4'**  
1 U-BEND STAGGERED MESH (a & b)  
& 2 L-BEND MESH



**Type '5'**  
2 L-BEND STAGGERED MESH (c,d & e,f)  
& 2 L-BEND MESH & 1 FLAT SHEET

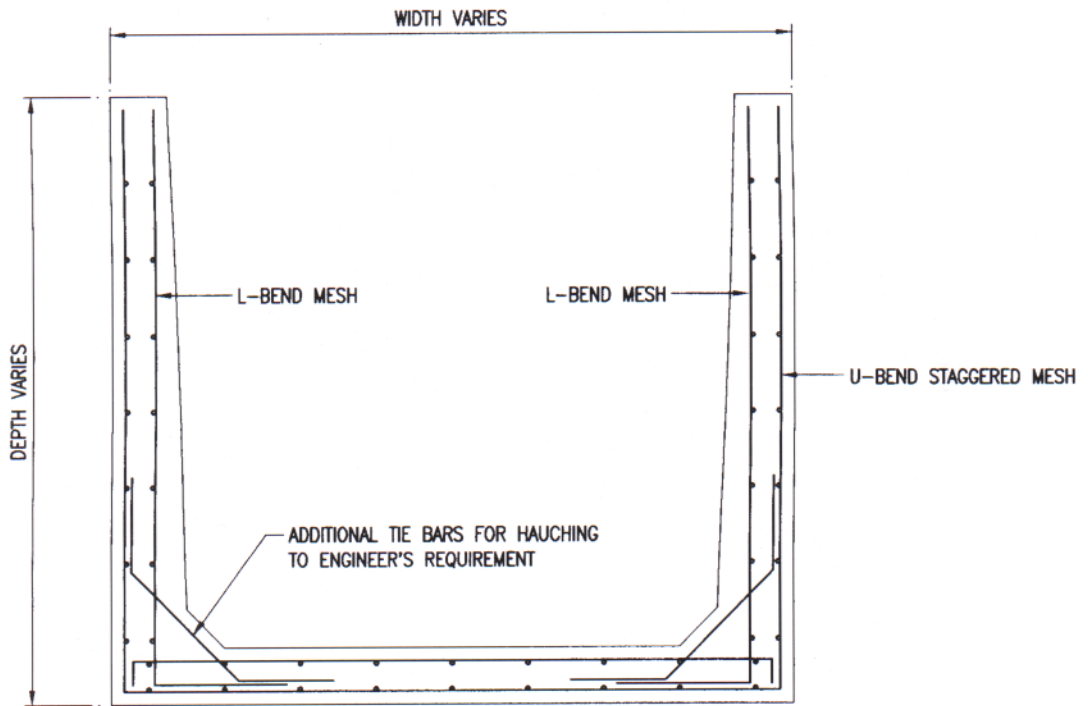


**DETAIL 'A'**  
Profile of U-BEND STAGGERED MESH  
before bending for TYPE '4'

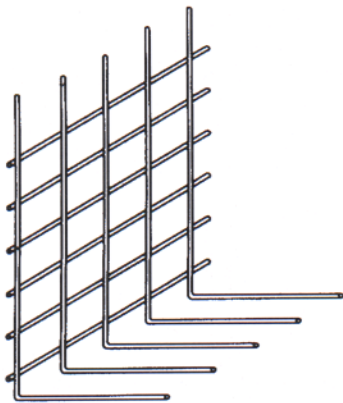


**DETAIL 'B'**  
Profile of L-BEND STAGGERED MESH  
before bending for TYPE '5'

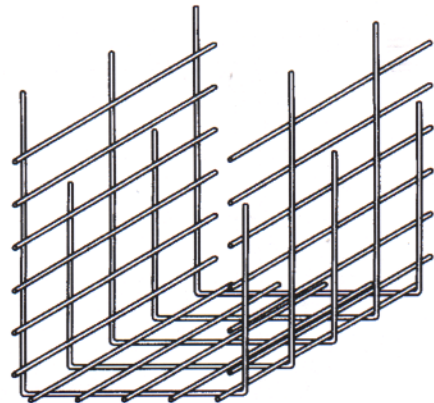




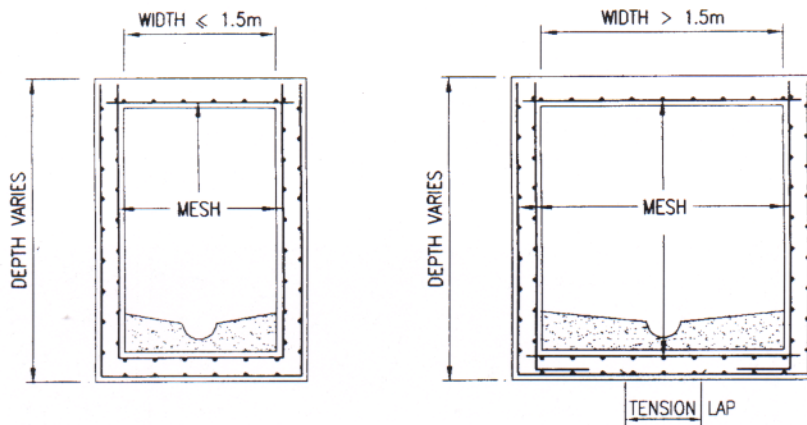
TYPICAL SECTION OF R.C. DRAIN



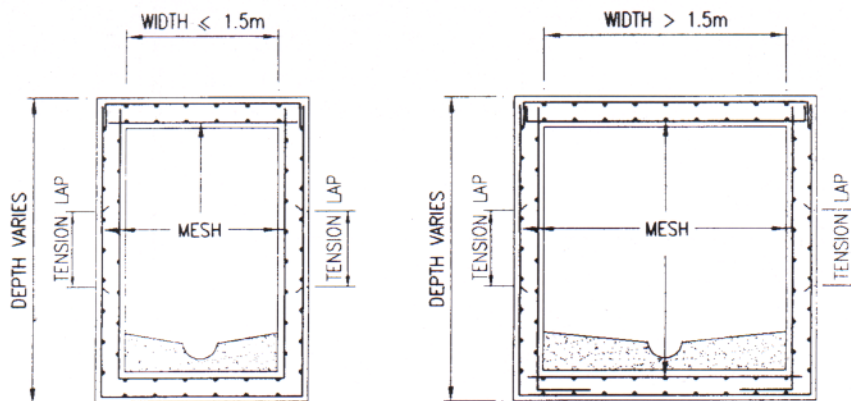
TYPICAL L-BEND MESH



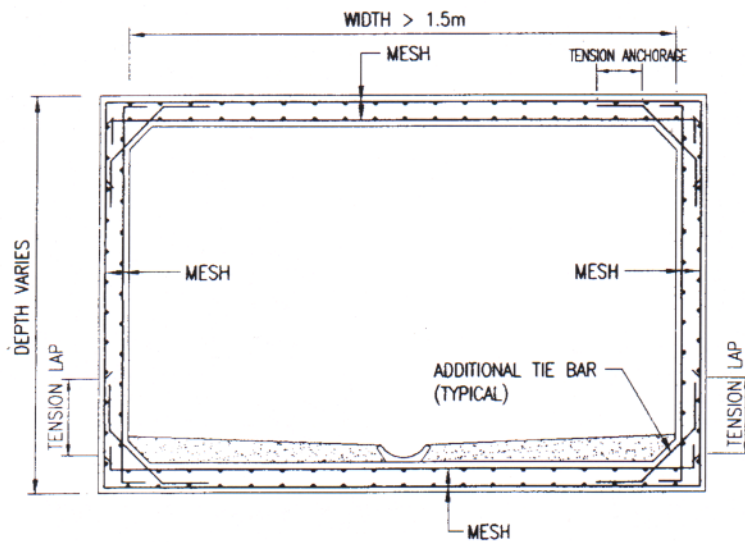
TYPICAL U-BEND STAGGERED MESH



**TYPICAL SECTION OF CLOSED DRAIN**



**TYPICAL SECTION OF BOX CULVERT**



**TYPICAL SECTION FOR LARGE SIZE CLOSED DRAIN**