WALL-101A



BASEMENT REINFORCED CONCRETE WALL TO FOUNDATION WITH SHEAR WALL AND BRICK VENEER ABOVE

158

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NOTE TO DESIGN PROFESSIONAL: COMPLETE THE ATTACHED CHECKLIST AND MODIFY DETAIL AS REQUIRED BEFORE INCORPORATING THIS DETAIL INTO PROJECT CONSTRUCTION DOCUMENTS

AND REINFORCEMENT

BASEMENT REINFORCED CONCRETE WALL TO FOUNDATION WITH SHEAR WALL AND BRICK VENEER ABOVE WITH DRAINAGE

WALL-101B

159

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FIGURE WALL-101A AND WALL-101B: BASEMENT REINFORCED CONCRETE WALL TO FOUNDATION WITH SHEAR WALL AND BRICK VENEER ABOVE

The design professional shall review the following checklist and incorporate project-specific requirements into the details

INTENDED USE

Basement reinforced concrete wall reinforcement detail with exterior non-structural brick veneer

GENERAL CONSIDERATIONS – NOTE: ALL SECTIONS REFER TO ACI 318-19

- 1. Wall thickness satisfies Section 11.3.1.1 and provides adequate width to support elevated slab
- 2. Exterior wall face distance to column line is coordinated
- 3. Ledge is provided to support the veneer, or ledge may be eliminated and masonry block will start at ground level as shown in Figure WALL-101B
- 4. Hooked bar is provided at ledge; size and spacing to match vertical wall bar size and spacing
- 5. Vertical dowels are provided from foundation into wall to match vertical wall reinforcement spacing
- 6. Basement wall vertical reinforcement is extended above the joint and spliced with vertical wall reinforcement in accordance with section 25.5
- 7. Wall reinforcement ratios exceed the minimum required in Section 11.6
- 8. Wall longitudinal reinforcement spacing satisfies Sections 11.7.2
- 9. Wall transverse reinforcement spacing satisfies Sections 11.7.3
- 10. Longitudinal reinforcement is laterally supported per Section 11.7.4.1
- 11. Top of foundation and top of basement slab-on-ground elevation is coordinated
- 12. Detail reflects actual condition at ground level; slab-on-ground or finish grade; Slope away from wall
- 13. Wall reinforcement and spacing requirements for special structural walls (SDC D through F) satisfy Sections 18.10 and supersede sections of Chapter 11
- 14. Boundary elements satisfy Sections 18.10.6.4 for special structural wall (SDC D through F)— see Figure WALL-1_2
- 15. Waterstop is provided if required. If adhesive waterstop type is used, then place next to the exterior vertical reinforcement layer. If bulb type waterstop is used, then place in the center of the wall
- 16. Vapor retarder applied to exterior face of wall below grade if required
- 17. Cover for reinforcement satisfies Section 20.5.1
- 18. Remove "NOTES TO DESIGN PROFESSIONAL" before placing detail in the Contract Documents

RECOMMENDED REFERENCES

Concrete International articles^{*}: 5, 6, 16, 17, 23, 31, 33

*Refer to Section 3 for articles

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EXTERIOR WALL - WITHOUT BASEMENT

NOTE TO DESIGN PROFESSIONAL: COMPLETE THE ATTACHED CHECKLIST AND MODIFY DETAIL AS REQUIRED BEFORE INCORPORATING THIS DETAIL INTO PROJECT CONSTRUCTION DOCUMENTS



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FIGURE WALL-102: EXTERIOR REINFORCED CONCRETE WALL – WITHOUT BASEMENT

The design professional shall review the following checklist and incorporate project-specific requirements into the details

INTENDED USE

Exterior reinforced concrete wall without basement and its connection to shallow foundation and elevated slab

GENERAL CONSIDERATIONS - NOTE: ALL SECTIONS REFER TO ACI 318-19

- 1. Wall thickness satisfies Section 11.3.1.1 and provides adequate width to support elevated slab
- 2. Exterior wall face distance to column line is coordinated
- 3. Vertical dowels are provided from foundation into wall to match vertical wall reinforcement and spacing
- 4. Bottom of foundation is below frost line; coordinate with geotechnical report
- 5. Wall reinforcement ratios exceed the minimum required in Section 11.6
- 6. Wall longitudinal reinforcement spacing satisfies Sections 11.7.2
- 7. Wall transverse reinforcement spacing satisfies Sections 11.7.3
- 8. Longitudinal reinforcement is laterally supported per Section 11.7.4.1
- 9. Detail reflects actual condition at ground level; slab-on-ground or finish grade slope away from wall
- 10. Wall reinforcement and spacing requirements for special structural walls (SDC D through F) satisfy Sections 18.10 and supersede Sections of Chapter 11
- 11. Boundary elements satisfy Sections 18.10.6 for special structural wall (SDC D through F)
- 12. Expansion joint filled with sealant is provided between wall and basement slab-on-ground
- 13. Detail reflects actual condition at ground level; slab-on-ground or finish grade; slope away from wall
- 14. Cover for reinforcement satisfies Section 20.5.1
- 15. Remove "NOTES TO DESIGN PROFESSIONAL" before placing detail in the Contract Documents

RECOMMENDED REFERENCES

Concrete International articles^{*}: 5, 13, 15, 16, 17, 23, 31, 33

*Refer to Section 3 for articles

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COMPLETE THE ATTACHED CHECKLIST AND MODIFY DETAIL AS REQUIRED BEFORE INCORPORATING THIS DETAIL INTO PROJECT CONSTRUCTION DOCUMENTS

INTERIOR REINFORCED CONCRETE WALL

NOTE TO DESIGN PROFESSIONAL:

FIGURE WALL-103: INTERIOR REINFORCED CONCRETE WALL

The design professional shall review the following checklist and incorporate project-specific requirements into the details

INTENDED USE

Interior reinforced concrete wall and its connection to shallow foundation and elevated slab

GENERAL CONSIDERATIONS – NOTE: ALL SECTIONS REFER TO ACI 318-19

- 1. Wall thickness satisfies Section 11.3.1.1 and provides adequate distance to support elevated slab
- 2. Exterior wall face distance to column line is coordinated
- 3. Vertical dowels are provided from foundation into wall to match vertical wall reinforcement and spacing
- 4. Dowel hooks in foundation
- 5. Wall reinforcement ratios exceed the minimum required in Section 11.6
- 6. Wall longitudinal reinforcement spacing satisfies Sections 11.7.2
- 7. Wall transverse reinforcement spacing satisfies Sections 11.7.3
- 8. Longitudinal reinforcement is laterally supported per Section 11.7.4.1
- 9. Wall reinforcement and spacing requirements for special structural walls (SDC D through F) satisfy Sections 18.10 and supersede Sections of Chapter 11
- 10. Boundary elements satisfy Sections 18.10.6 for special structural wall (SDC D through F)
- 11. Expansion joint filled with sealant is provided between wall and slab-on-ground
- 12. Adequate distance is provided between top of foundation and bottom of slab-on-ground to run duct/pipes
- 13. Cover for reinforcement satisfies Section 20.5.1
- 14. Remove "NOTES TO DESIGN PROFESSIONAL" before placing detail in the Contract Documents

RECOMMENDED REFERENCES

Concrete International articles*: 5, 13, 16, 17, 23, 31, 33

*Refer to Section 3 for articles



WALL-104



NOTE TO DESIGN PROFESSIONAL: COMPLETE THE ATTACHED CHECKLIST AND MODIFY DETAIL AS REQUIRED BEFORE INCORPORATING THIS DETAIL INTO PROJECT CONSTRUCTION DOCUMENTS

EXTERIOR WALL SUPPORTING PRECAST BEAM AT TOP LEVEL



FIGURE WALL-104: EXTERIOR WALL - SUPPORTING PRECAST CONCRETE BEAM AT TOP LEVEL

The design professional shall review the following checklist and incorporate project-specific requirements into the details

INTENDED USE

Cast-in-place reinforced concrete nonprestressed walls supporting precast concrete beam

GENERAL CONSIDERATIONS – NOTE: ALL SECTIONS REFER TO ACI 318-19

- 1. Wall thickness satisfies Section 11.3.1.1 and provides adequate width to support elevated slab
- 2. Wall reinforcement ratios exceed the minimum required in Section 11.6
- 3. Wall reinforcement and spacing requirements for special structural walls (SDC D through F) satisfy Sections 18.10
- 4. Wall longitudinal reinforcement spacing satisfies Sections 11.7.2
- 5. Wall transverse reinforcement spacing satisfies Sections 11.7.3
- 6. Longitudinal reinforcement is laterally supported per Section 11.7.4.1
- 7. Development lengths satisfy Sections 25.4
- 8. Bearing surface types, embedded steel plate, or angle with studs
- 9. Seat depth is defined, but is not less than 4 in.
- 10. An L-bar is placed below bearing area with size and spacing matching vertical wall reinforcement
- 11. Cover for reinforcement satisfies Section 20.5.1
- 12. Remove "NOTES TO DESIGN PROFESSIONAL" before placing detail in the Contract Documents

RECOMMENDED REFERENCES

Concrete International articles*: 5, 16, 17, 23, 31, 33

*Refer to Section 3 for articles

167