This list is to be used as a general guide.  
It is not inclusive of all code requirements and inspection criteria.  
Per California Building Code (CBC), American Concrete Institute (ACI) 530.1 (masonry) and 318 (concrete) and applicable ASTM referenced standards  
California Codes available at www.bsc.ca.gov

FOOTING INSPECTION
☐ Approved plans on site CBC 2101.3.  
☐ Location and size per approved plans: depth and width, keyway if required  
☐ Clean of foreign debris ACI 318 7.5.1(d)  
☐ Reinforcing steel per ACI 318 and ACI 530  
  o Properly sized and placement per plan ACI 318 7.5.1  
  o Minimum clearance to earth 3” ACI 318  
  o Adequately secured from displacement ACI 318 7.5.1  
  o Minimum length of lap splices (30db in concrete, 40/48 db. in masonry)  
  o Double dowels at jambs, wall ends and corners as required by plans and ACI 530  
☐ Plumbing pipes and electric conduits must be shown on plan. CBC 2101.3 #8  
☐ Deputy Inspection or Structural Observation (per plan and CBC 1705.4)  
☐ Soils approval per plan and CBC table 1705.6

MASONRY (LAYUP) Materials per ACI 530 and ASTM standards Execution per ACI 530.1
☐ Rebar and footing clean of overpour and laitance per ACI 530.1 3.2B  
☐ Type of masonry per approved plans (density). No blemished, cracked or broken units per ASTM standard C 90.  
☐ Deputy inspection requirements of materials and layup-periodic for Level B  
☐ Continuous deputy inspection required for level C layup, reinforcement, anchors, and strength testing. Table 1.19.3 ACI 530  
☐ Wall height per approved plans  
☐ Head and bed joints solidly mortar filled, except beveled end of open-end units.  
☐ Initial bed joint >¼”< ¾”. ACI 530.1 3.3B.1  
☐ Bed and head joints 3/8” thick ACI 350.1 3.3.B  
☐ Maximum mortar fin projection of ½”. ACI 530.1 3.3B.1c  
☐ Cells clean of foreign debris and mortar droppings per ACI 530.1  
☐ Clean-outs required for grout pours over 5’4” ACI 530.1 3.2F  
☐ Max. grout pour height per ACI 530.1 3.5C and table 7 (based on cell size/grout space)  
☐ Anchor bolts minimum ¼” fine grout (1/2” coarse grout) surrounding per ACI 530 3.4D  
☐ Plumb and line of masonry layup- within 1/4” in 10’ (½” max.) per ACI 530 3.3F
REINFORCING STEEL (in masonry wall) per ACI 530.1

- Properly sized per plans (special requirements for shear walls)
  - Minimum #4 at 2’ o.c. each way in Seismic Design Category D
- Placed per plans and within tolerances (vertical rebar within ½” sideways, 2” long way)
- Adequately secured from displacement ACI 530.1 3.4B.1 and 3.2E (no drop in bars)
- Lentil bars minimum 2’ past openings each side ACI 530 1.18.3.2.3.1
- Double jamb bars at openings, double dowels at wall ends and corners. ACI 530 1.18.3.2.3.1
- Vertical steel within 16” of wall openings >16” and corners. Within 8” of joints and end of wall ACI 530 1.18.3.2.3.1
- Dowels embedded in concrete not bent more than 1 in 6. ACI 530.1 3.4B.8.6
- Minimum 40 db (40 bar diameters) lap slice, 48db for grade 60 rebar.
- Minimum clearance to masonry shell maintained. ACI 530.1 3.4B
  - ¼” for fine grout – ½” for course grout.

PRE-GROUT INSPECTION

- All grout per ASTM C476, 8-11” slump, mix design and psi (minimum 2000psi) per SEOR (structural engineer of record)
- Grout consolidation and reconsolidation per ACI 530.1 3.5E
- Maximum pour height per Approved plans and ACI 530.1 3.5C
- Maximum lift height per ACI 530.1 3.5D
- Periodic deputy inspection of reinforcement (and materials) per CBC1704.5.1
- Special inspection requirements apply to all structural masonry per CBC 1704.5. (all grouting requires continuous deputy inspection and periodic inspection of reinforcement)
- Deputy registered with the City of Santa Monica (S.M.M.C.)
- Minimum grout key of 1 ½” per ACI 530 3.5F
- Bed and head joints 3/8”+- 1/8” and initial bed joints ¾”min.and 3/4” max. per ACI
- Hot/cold weather precaution requirements in place per CBC Chapter 21
FINAL INSPECTION

☐ Wall construction complete, wall capped
☐ Appropriate curing time for retaining wall prior to backfill (28 days typical)
☐ Wall per approved plans, all grout lifts signed off, all city agencies approved
☐ Final deputy inspector’s report per CBC 1704
☐ Wall passes the visual acceptance criteria of ACI 530.1 3.3F
☐ Seismic gas shutoff valve if permit valuation is over $10,000 (separate permit required)