

2.3 Part 3 Execution

2.3.1 Reinforcement

A. Bar Schedules and Shop Drawings

1. The contractor shall schedule the reinforcement in accordance with BS 8110 and BS 8666 and the information on the drawings, this specification and subsequent instructions.
2. The contractor shall include for all necessary supports, chairs and spacers, and his price and rates for reinforcement thus shown shall include for these.
3. The contractor shall prepare reinforcement detail drawings and other relevant shop drawings to the following scales:
 - a. Walls and slabs 1:50
 - b. Beams and column elevations 1:20
 - c. Beam and column sections 1:20 or 1:10
4. Shop drawings shall show all openings for services, up stands or plinths for equipment and cast-in items and be fully coordinated with relevant trades.
5. Reinforcement details drawings shall be in accordance with the Standard Method of Detailing Structural Concrete published by the Institution of Structural Engineers/Concrete Society. Sketches will not be acceptable.
6. Bar bending schedules and coordinated shop drawings shall be submitted for the Engineer's approval. An average of 21 days shall be allowed for the Engineer's review of this documentation.
7. The Contractor shall correct these schedules incorporating the Engineer's comments and resubmit as reasonably required to ensure a high standard of work. He shall programme his work and submit schedules for approval allowing time for such verification, rectification and resubmission as necessary. Such approval shall not relieve the Contractor of his contractual responsibility.
8. No concreting shall be allowed to proceed until such a time that the shop drawings and bending schedules for that particular section of works are approved.

B. Bar Cutting and Bending

1. Reinforcement shall be cut and bent in accordance with BS 8666. Cutting or bending by the application of heat is not permitted. Welding of reinforcement shall only be permitted when approved in writing by the Engineer. If such approval is given then the workmanship shall be in accordance with BS