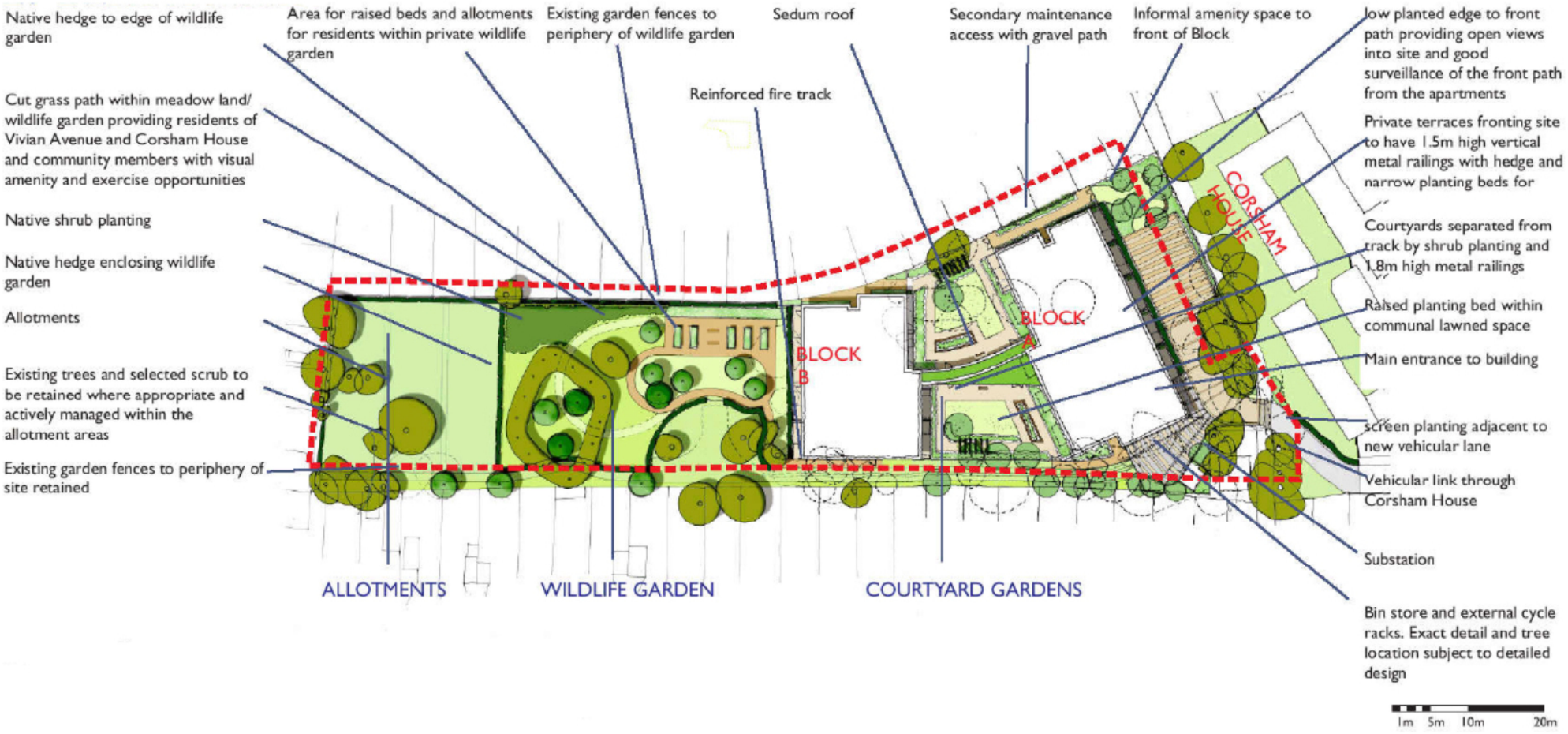Appendix 1 Scheme Layout