

Specification - Quotation

Play Area Development – Ambergate Recreation ground

1.0 Condition of Contract

The Conditions of Contract shall be the ICE Conditions of Contract (Seventh Edition), published for the Institution of Civil Engineers, the Association of Consulting Engineers and the Federation of Civil Engineering Contractors in September 1999 inclusive of all amendments and modifications in conjunction with the Housing Grants Construction and Regeneration Act 1996.

2.0 Specifications and Scope of Works

2.0.1 All works are to be completed to the satisfaction of the representative of Amber Valley Borough Council. All materials and equipment required for the completion of works are to be supplied by the Contractor unless specified differently within this specification or accompanying documents.

2.0.2 The extent and scope of works required in developing the playground is identified within the enclosed brief.

2.1 Removal of all existing play equipment, timber post and rail fence, gates, street furniture and all existing loose-fill safety surface.

2.1 .1 The contractor shall carry out the removal of all loose fill safety surface, part of post and rail fence surrounding the play area, 12' field gate, 1 no. pedestrian self-closing gates (to the play area), seat and litter bin within the play area. All waste materials shall be transported and disposed of at contractors own licensed tip.

2.2 Topsoil shall be imported and laid in the existing bark pit in preparation for laying turf and should conform to the following specification:

2.2.1 Supply general-purpose topsoil conforming to BS 3882: 1994 and evenly distribute over the existing bark pit. Soil shall be screened and free from weed and other debris. Soil quantity is to be identified by the contractor. Any existing bark mulch, which is well rotten, can be compacted and covered with the topsoil.

2.2.2 Soil must be cultivated to a friable tilth by treading, firming and raking level or by other approved methods.

2.2.3 The finished level of the soil shall match that of the existing surrounding surface minus the depth of the new turf. The finished level shall be even and consistent over the whole area, not built up at the edges.

2.3 Amenity grade turf shall be supplied and laid on the area of topsoil as per the following specification, in accordance with BS 3969 (1990) Turf and BS 4428 (1989) Laying Turf.

- 2.3.1 Turf supplied will be free from pests and diseases have a close texture with uniform density and colour. Turf quantity to be identified by the contractor.
- 2.3.2 The soil base of the turf will be a medium loam texture and free from stones over 25mm diameter. Turf will be cut to a uniform thickness not less than 25mm and no greater than 30mm and will be supplied in widths of at least 300mm. The turf will not disintegrate whilst handling.
- 2.3.3 To avoid drying out whilst in transit, turf will be packed onto the transporter either rolled or laid but not folded.
- 2.3.4 Turf will be delivered within 36 hours of lifting and will be off-loaded by hand unless arranged on pallets for mechanical handling.
- 2.3.5 If turf is to be stacked it will be placed grass to grass on cleared ground to height not exceeding 1 metre. If turf is to be stored for more than three days it will be laid out and maintained.
- 2.3.6 Any turf, whether laid or not, that does not conform to this specification or the required standard of any approved sample will be removed and replaced by turf to an acceptable quality at no cost to the Council.
- 2.3.7 Turfs will be laid on the prepared bed in stretcher bond format, closely butted and to the correct levels. Turf will be laid off wooden planks working over turfs previously laid.
- 2.3.8 Laid turfs will be lightly and evenly firmed using wooden turf beaters, or scaffolding planks the bottoms of which to be kept constantly clean of soil or mud.
- 2.3.9 Any unevenness in finished levels due to variations in turf thickness or inconsistent firming of the soil will be adjusted by raking out and/or packing screened topsoil beneath the appropriate turf/turfs.
- 2.3.10 Whole turfs will be laid to all edges or margins.

2.4 The design and Installation of timber and / or steel playground equipment as per the enclosed brief

2.4.1 The design and construction of a new equipped play area for children aged specifically between 0-14 years. The equipment shall be designed to enhance its surroundings.

2.4.2 A range of play equipment shall be included and must provide all of the following play values; (listed in no particular order):

- Swinging
- Sliding
- Climbing
- Rotating
- Rocking
- Balancing

The above list is the minimum requirements for the play area. If the contractor wishes to include additional equipment, this will be scored favourably during the evaluation against value for money and play value.

2.4.3 All proposed play equipment shall conform to EN1176. New playground equipment and sundry items are to be installed to the manufacturer's instructions and to EN1176/77, including free space around equipment and zoning as appropriate.

2.4.4 All timber equipment shall be supplied with a metal ground socket to reduce the risk of decay below ground level.

2.4.5 Fresh earth shall not be built up around the base of timber elements, where an elevated position is required for a Aerial runway a stand alone ramp shall be used.

2.5 Lay grass reinforcement mesh and rubber grass mat safety surface around all items of play equipment to comply with EN 1176/77.

2.5.1 Mark out the grass mat safety areas as per the requirements of the play equipment. Surfacing shall extend into proposed wear areas and areas of heavy footfall to prevent future ground erosion.

2.5.2 Lay out a grass reinforcement mesh within the marked area ensuring the mesh edges butt up to each other.

- 2.5.3 Lay the rubber grass mats over the mesh as per British standards. All adjoining grass mats shall be fixed together using cable ties. A minimum of 6 ties shall be used on the short edge (1.0m) and a minimum of 10 ties on the long edge (1.5m). Where the corners of four mats meet together use two cable ties to diagonally tie together opposite mats, forming a cross.
- 2.5.4 Mark and cut the mats around the legs of play equipment where necessary ensuring any cuts made from the edge of the mat to the center of the leg hole are fixed back together using the ties provided, see 'Laying grass mats' image.
- 2.5.5 Push the cable tie knot down and underneath the grass mat and cut off any excess to help prevent the tie causing injury from its potential sharp point.
- 2.5.6 Around the perimeter edge roll back the grass mat. Starting from approximately 150mm in from the outer edge of the mats, use a spade to lift away the top turf at a 45-degree angle (keep neat to fold back over later). This will leave a wedge-shaped channel. Continue around the full perimeter.
- 2.5.7 Roll the grass mat back down into the wedge-shaped channel.
- 2.5.8 Using 3 pegs (per mat) securely fix each mat around the perimeter to the ground and in addition use additional pegs to the centers of the mats to prevent them from being lifted.
- 2.5.9 Re-lay the wedge of turf back into the recess
- 2.5.10 Use any remaining pegs/ties to secure the mats in place at even spaces.

2.6 Supply and installation of a timber knee rail surrounding the outer edge of the play space to define a low inconspicuous play area boundary.

- 2.6.1 The installation of a softwood knee rail 450mm high will provide an informal barrier surrounding the play area. The location of the knee rail is identified on the detailed drawing.
- 2.6.2 Each post shall be 100mm x 100mm x 450mm high with bird's mouth top, supplied with softwood planed finish. Each post shall be set between 1.2m centres.
- 2.6.3 The top rail shall be 100mm x 100mm nominal section 2.4m long. Each rail is to be secured using galvanised strap with 50mm nails.
- 2.6.4 Face fix 1no. mid rail to each post using 3.5" x 1.5" Tantalised timber fence rails each secured with 50mm nails. Used to prevent small dogs running beneath the top rail.

2.7 Install third party seats and litter bin within a concrete wear pad (Furniture supplied by Amber Valley Borough Council)

- 2.7.1 Mark out the location of each wear pad for 2no. Streetmaster Stirling polyboard Seats, cw extended leg for concreting in (pad dimension – 2.0m x 1.0m) and 1no. Broxap Derby Standard litter bin, surface fixed with rawl bolts included (pad dimension 0.6m x 0.6m)
- 2.7.2 Excavate in any material to formation level of footpath and dispose of at licensed tip. Average depth 125mm
- 2.7.3 Prepare and compact formation level in approved manner.
- 2.7.4 Supply and lay weed retaining membrane to the formation level.
- 2.7.5 Supply and install 50 x 150mm timber edgings using 50 x 50mm pegs at regular intervals
- 2.7.6 Supply, lay and finish 125mm of Class C35 (or equivalent) mass concrete into the bays as required.
- 2.7.7 Surface to have a brushed finish.
- 2.7.8 Clear all concrete shuttering once cured.
- 2.7.9 Evenly spread topsoil to the back edge of the new pad, leaving no trip hazards. The soil shall be compacted and spread with an amenity grass mix.
- 2.7.10 All other disturbed areas surrounding the pathway shall be reinstated to an even surface and re-seeded if required.

3.0 General Information

- 3.0.1 The site must be made secure during the works at the contractor's expense.
- 3.0.2 The budget available for the development of the play area is shown within the enclosed brief. Contractor's should seek to expend the full amount but must not exceed the set budget.
- 3.0.3 All proposed play equipment shall conform to EN1176. New playground equipment and sundry items are to be installed to the manufacturer's instructions and to EN1176/7, including free space around equipment and zoning as appropriate.

3.0.4 Any play equipment standing above the height of 4 metres will require planning permission prior to its installation. If any equipment is proposed to be installed above this height it must be noted that there is a minimum 6 week turnaround period from the time of the application to its approval and will be the responsibility of the contractor to obtain.

3.0.5 Following the completion of all installation works the site shall be reinstated as necessary. All waste material shall be removed from site and disposed of at the Contractor's own tip. Bare earth areas shall be graded out, with all large stones (over 20mm diameter), removed, and shall be seeded with an amenity grass mix or turfed as agreed.

Where necessary topsoil to BS 3882 shall be imported to complete the reinstatements.

3.0.6 All excavated material shall be removed and disposed of at the Contractor's own tip.

All works shall be completed to the satisfaction of a representative of Amber Valley Borough Council, and a post installation inspection will be carried out by a recognised independent playground equipment inspector appointed and paid for by the Council, the contractor does not need to make any allowances within their tender for this inspection, any defects found on this report will be rectified by the Contractor at no additional cost

3.0.7 The contractor shall provide evidence that they can meet the requirements of the CDM Regulations and any necessary risk assessments, and method statements must be provided.

: - End of Specification.