

Langho FC

Draft Specification For The Construction Of a New Synthetic Football Pitch

Pitch Size 106m x 78m (8268 sqm)

Location: Dewhurst Road, Langho, Lancashire, Blackburn. BB6 8AF

Ground Works

- Excavate and re move topsoil from the pitch area. Topsoil is estimated at 250mm deep. Topsoil will be deposited on site within 200m from new pitch area in a landscaped bund.
- Carry out cut/fill operation over the pitch area to provide a 'level' platform at a max fall of 1 in 100.
- Trim and compact the prepared formation delivering a formation level performance of greater than or equal to 5% CBR

Drainage

- Install an under pitch drainage system, consisting of lateral drains at 10m centres linked to a perimeter collector drain. Lateral drains consisting of 80mm dia perforated pipes bedded in 20mm single sized gravel. Collector drains consisting of 120mm dia perforated pipes. All drain lines connected with proprietary joints for full serviceability.
- Manholes will be installed at each corner (change of direction).
- Outfall from lowest corner will collect in a new manhole outside the pitch and this will control the outflow into existing outfall. To be determined.

Sub Base

- Lay a separating membrane (geotextile) over the prepared formation ensuring that joints overlap by at least 250mm
- Lay 200mm of crushed stone sub base in layers not exceeding 150mm. Sub Base consisting of Type 3 road stone with reduced fines providing void content of 30% per cubic metre of compacted product.
- Lay 50mm (compacted depth) crushed stone Blinding Layer laid to a tolerance of 6mm. Blinding layer consisting of mixed aggregate 2-10 mm in size, laid through lazer guided box grader. Finished level compacted and tested under 3m rolling straight edge.
- Install perimeter edging using 150 x 50mm pre cast concrete flat top edging kerb. Edgings laid on concrete bend and haunch.

Surface

- Lay performance shock pad directly on top of blinding stone later. Shock Pad is prefabricated and rolled into position, seamed on site with proprietary tape.
- Lay CCG Super 45 3G playing surface. Superb 45 is a high performing synthetic grass system manufactured using a C8 polymer with a Diamond shaped yarn, backed using PU backing. The playing surface is infilled with dried silica sand and SBR crumb rubber. System tested to FIFA Quality Pro. CC Grass are a FIFA preferred producer.

Fencing

- Install perimeter fencing 5.0m high around the entire pitch perimeter.
- Fencing consisting of 8/6/8 twin bar rebound panels fixed to 5.0m high 150x100x8mm hollow section steel posts.
- Lower section to 1.2m using rebound panels with 50mm mesh
- All steel work galvanised and polyester powder coated in either green or black
- 1 vehicle gate and 2 pedestrian gates using twin bar system in proprietary frames.

Lighting

- New pitch floodlit using a 6 column system.
- 6 x mass concrete foundations, reinforced and with bolt clusters to accept the lighting masts.
- 6 x 15 m galvanised steel masts bolted to new concrete bases
- LED fixings atop the steel masts delivering average lux levels of 220lux.
- All power and control wires hosted in ducting beneath the ground taken to a new pitch side control pillar. Main power taken from club house.