

ES PIPELINES LIMITED



Specification for the Extension of a PRI Concrete Base

ESP/PL/PRI SPEC 3 V1.2 July 2022

Specification For the Extension of an Above Ground PRI Concrete Base

This specification is to be used whenever there is a requirement for a concrete base to be extended.

Notes:

The thickness of the concrete base extension is to match the thickness of the existing base being extended, normally 250mm.

The concrete strength is, as a minimum, to be C30; Ordinary Portland Cement minimum 320 kg/per cubic metre.

Water/cement Ratio 0.6; Aggregate 20mm with water reducing admixture.

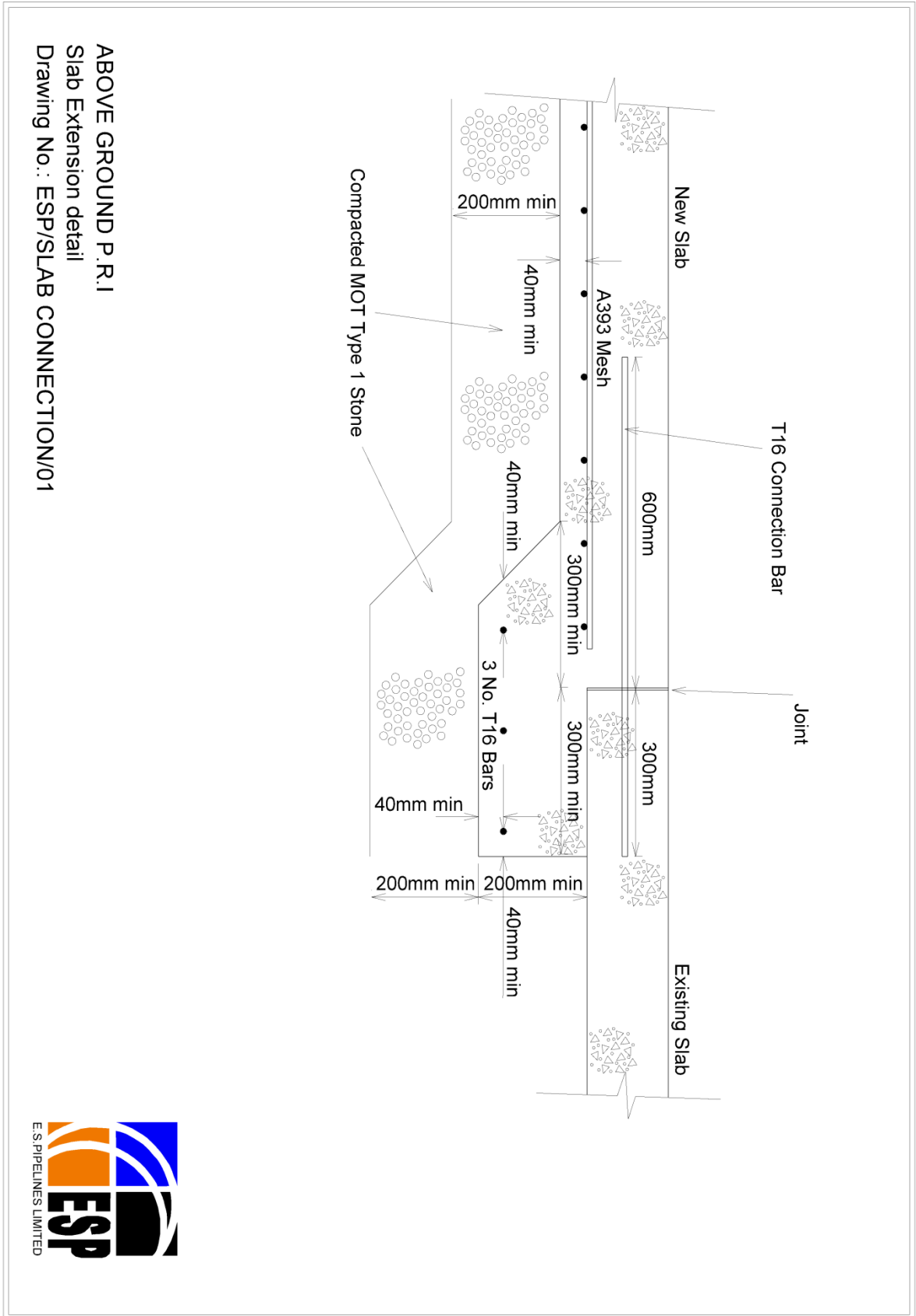
All concrete to be fully vibrated by mechanical concrete vibrator.

Base surface to be float finished.

The base to be protected from extreme weather conditions for a minimum of 7 days following the laying of the concrete.

See Drawing No. ESP/Slab Connection/01 below

- As a minimum a 200mm thick, well compacted, MOT type 1 basecourse is required under all new concrete and underpinned areas.
- The existing concrete slab to be underpinned 300mm back from connection face to a minimum of 200mm deep.
- The new base thickening to be, as a minimum 300mm forward from connection face and a minimum of 200mm deep.
- The connection joint faces to be cleaned using scabbler before holes for connection bars are drilled.
- T 16 Rebar 900mm long drilled 300mm deep at 200mm centres (maximum) into existing slab. 18mm holes are required, cleaned free from dust and Rebar chemically anchored into existing slab using Fischer FEB RM12 resin capsule system or equivalent.
- 3 off T16 rebar to be positioned longitudinally under existing slab and new base thickening, spaced evenly, and a minimum of 40mm from sides and from MOT base.
- A single layer of A 393 steel mesh required in new concrete slab spaced 40mm (minimum) from shuttered sides and MOT base.



ABOVE GROUND P.R.I
Slab Extension detail
Drawing No.: ESP/SLAB CONNECTION/01

