

Referring to installation drawing of CAB-EX foundation details drawing ref CABEXFIT2 (overleaf)

- 1) The CAB-EX is engineered to be planted into a foundation hole measuring 600mm x 600mm wide by 500mm deep
- 2) For the purpose of drainage, the base of the hole should be compacted hard core preferably in free draining ground.
- 3) Take the CAB-EX and place in the bottom of the excavated hole. To protect the upstanding studs during installation leave the M12 stainless steel nyloc nuts on the studs. This will alleviate having to clean concrete off the threads when fitting the Global Plus baselight.

CAB-EX ORIENTATION - VERY IMPORTANT

- 4) The CAB-EX is obviously a round profile duct, however the fitted bollard and baselight need to be appropriately oriented to the desired traffic flow. With the CAB-EX placed in the excavated hole, rotate the moulding until the text reading "Simmons signs Ltd" faces the desired vehicular approach angle. If required place a cover plate on the CAB-EX to replicate the installed face of a completed bollard baselight installation.
- 5) Once the orientation of the CAB-EX is set feed in necessary ducting and cable using appropriate 50mm and 100mm knife knock outs. **NOTE:** the centre 150.00mm knockouts can be simply hammered out using a ball pain or claw hammer. The outer annular may need to be scribed through with a Stanley knife.
- 6) After ducting, check CAB-EX orientation hasn't moved
- 7) Next, taking finished ground level off the top of the CAB-EX level up the CAB-EX using a spirit level. **NOTE:** The top of the CAB-EX clearly indicated with the text reading "Ground level" should be set level with any kerb tops or the desired finished site level.
- 8) Once entirely happy with duct entry, CAB-EX orientation and spirit level, proceed to back fill with concrete.
- 9) **NOTE:** To securely restrain the CAB-EX in its foundation the unit should be completely submerged in concrete to the installation instructions.

CONCRETE MIX

- 10) In layman's terms, the concrete used should be composed of the following:- 1 part cement to 5 parts ballast (50/50 sand/gravel mix). The estimated quantity of ballast to install a CAB-EX to the full 600 x 600 x 500 foundation is 9 No. 25kg bags and appropriate quantity of cement and water.
- 11) As the CAB-EX is progressively back filled with concrete, continue to check orientation and level to finished ground level. Readjust if necessary.
- 12) Ensure concrete foundation is well bedded round the CAB-EX.
- 13) Bring concrete foundation right up level with moulded "Ground level" text and finally float surface flush with the top of the CAB-EX as shown, making sure concrete beds in firmly around M12 stainless steel stud rebates.
- 14) Remove any debris from top of CAB-EX

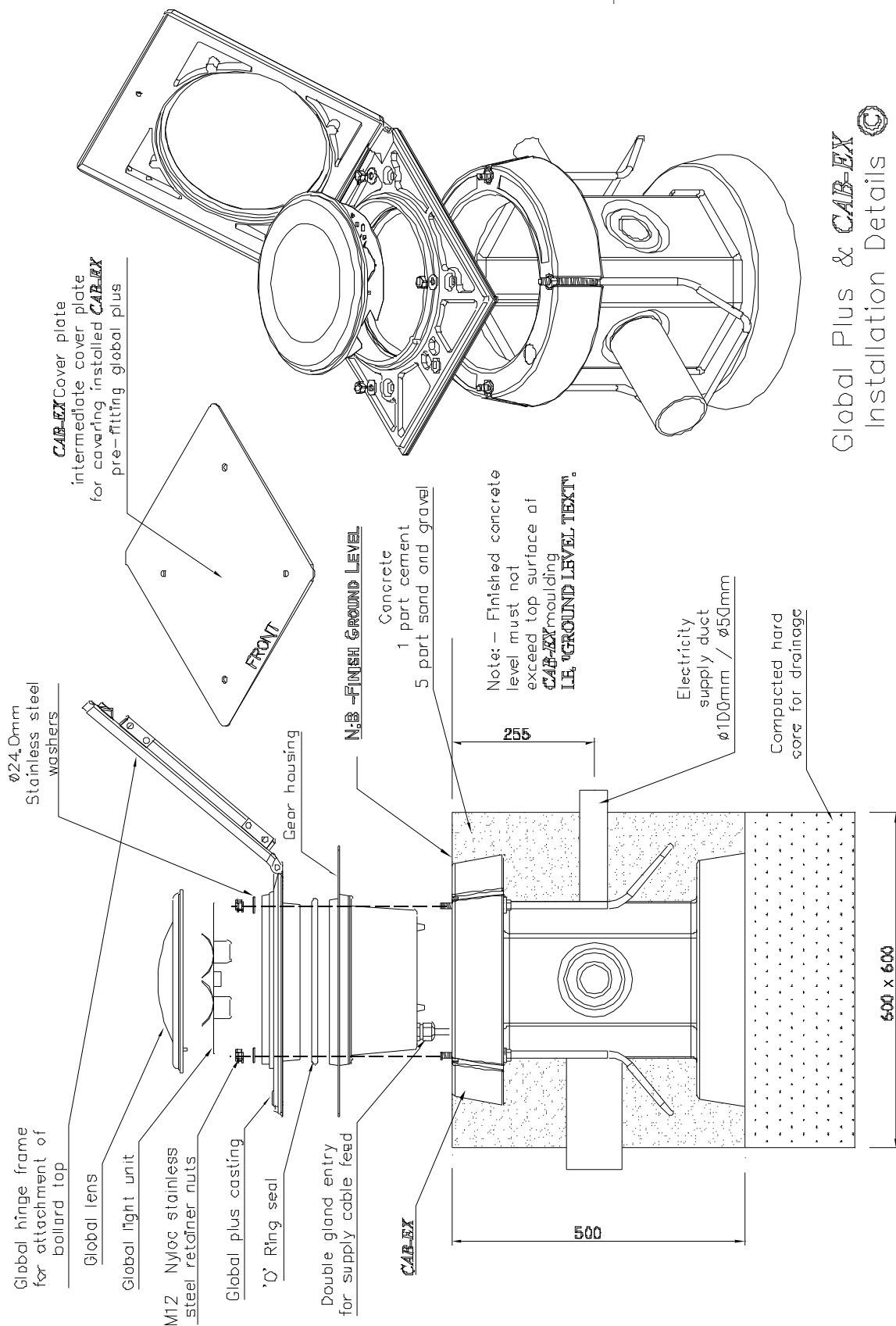
FITTING CAB-EX COVER PLATE

- 15) With the duct installation complete, the supply cable can be simply left coiled up in the bottom of the CAB-EX duct for final installation. To cover and protect the CAB-EX during further installation works remove the 4 No. M12 retainer nuts and 4 No. 124.00 stainless steel washers and place a cover plate over the projecting studs. Finally secure the plate with the M12 washers and Nyloc nuts and firmly tighten down.

FITTING GLOBAL PLUS with new larger capacity separate cutout chamber

- 16) Remove M12 stainless steel Nyloc nuts and dia 24.00mm stainless steel washers from CAB-EX. Remove cover plate if fitted.
- 17) Open Global Plus by first removing black bung and then using Tri-head key to release hinge frame.
- 18) Using 2 No. 19.00mm spanners remove the 2 No. M12 x 20mm long transit bolts and nuts from the Global Plus and safely recycle them!
- 19) Take coiled supply cable from CAB-EX and feed through gland on Global Plus moulding. **NOTE:** At this stage the gland can be left loose to allow cable freedom whilst terminating the cable into a suitable cut-out or terminal block if the Global Plus is a 24 volt system.
- 20) Once the supply cable is securely terminated in the cut-out, the cut-out can then be screwed down onto the Global Plus fuseboard. **NOTE:-** The fuseboard is 10.00mm thick marine grade ply, so a number of suitable lengthed chipboard screws will be required to hold the cut-out securely in place.
- 21) With the cut-out secured, the cable gland can then be firmly tightened onto the supply cable. **NOTE:** It is particularly important that all glands are securely tightened onto supply and loop cables and if the second gland is not used, that the sealing stub bolt supplied is securely sealed by tightening the gland around it **NOTE:-** The tightened gland rubber sealing ferrule must engage with the shoulder of the bolt and not the thread.
- 22) Next place the new detachable black moulded Global Plus cut-out vessel over the studs of the CAB-EX and then take the Global Plus casting, ensuring that the black O-ring is neatly seated in the cast rebate of the Global Plus and finally place the casting over the vessel so that the hinge "Front" faces the direction of oncoming traffic.
- 23) Using M12 stainless steel Nyloc nuts and dia 24.00 stainless steel washers retain Global Plus onto projecting M12 stainless steel studs. **NOTE:** It is particularly important that these Nyloc nuts are fully tightened down and that they engage by the full nut thread depth to ensure satisfactory compression of the O-Ring.
- 24) Finally place appropriate sign faced bollard top onto Global Plus hinge frame and retain with suitable fixings, supplied as standard with the bollard top.
NOTE:- Flexible bollards are retained on inner fixing holes with bolts, washers and nuts and Rigid bollards using outer fixing holes with nylon knock-in drive pins.
- 25) Remove any transit material from Global Plus baselight and lighting unit and test light unit operates.
- 26) Replace lens.
- 27) Hinge bollard back over Global Plus baselight and screw down Tri-head retainer. **NOTE:** When fastened down securely there should be no gap evident between the underside of the hinge frame and the Global Plus webbed platform.
- 28) Finally replace black tri-head bung.

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