Needle Installation Manual

Step 1: To make a concrete foundation as shown in Fig 1 and Fig 2. Take the dimensions of the bolt and conduit pipe from Fig 1 and Fig 2.

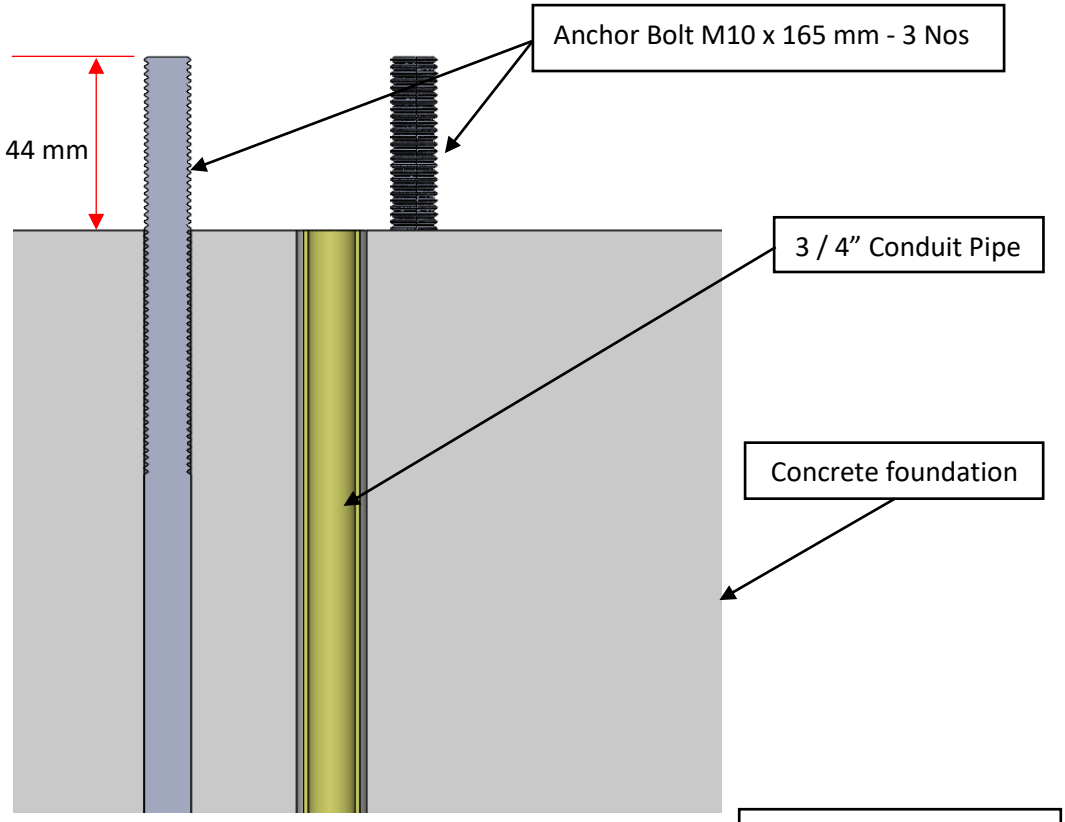


Fig.1 (Cross section view)

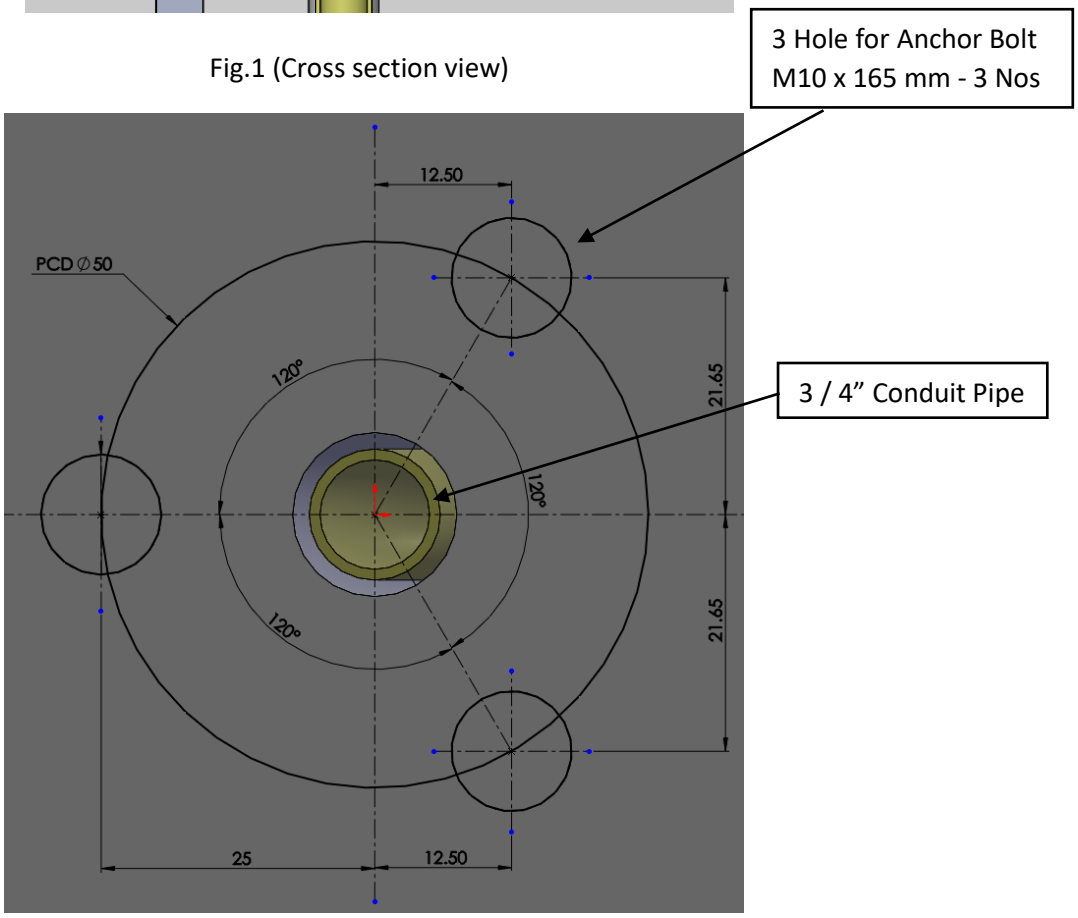
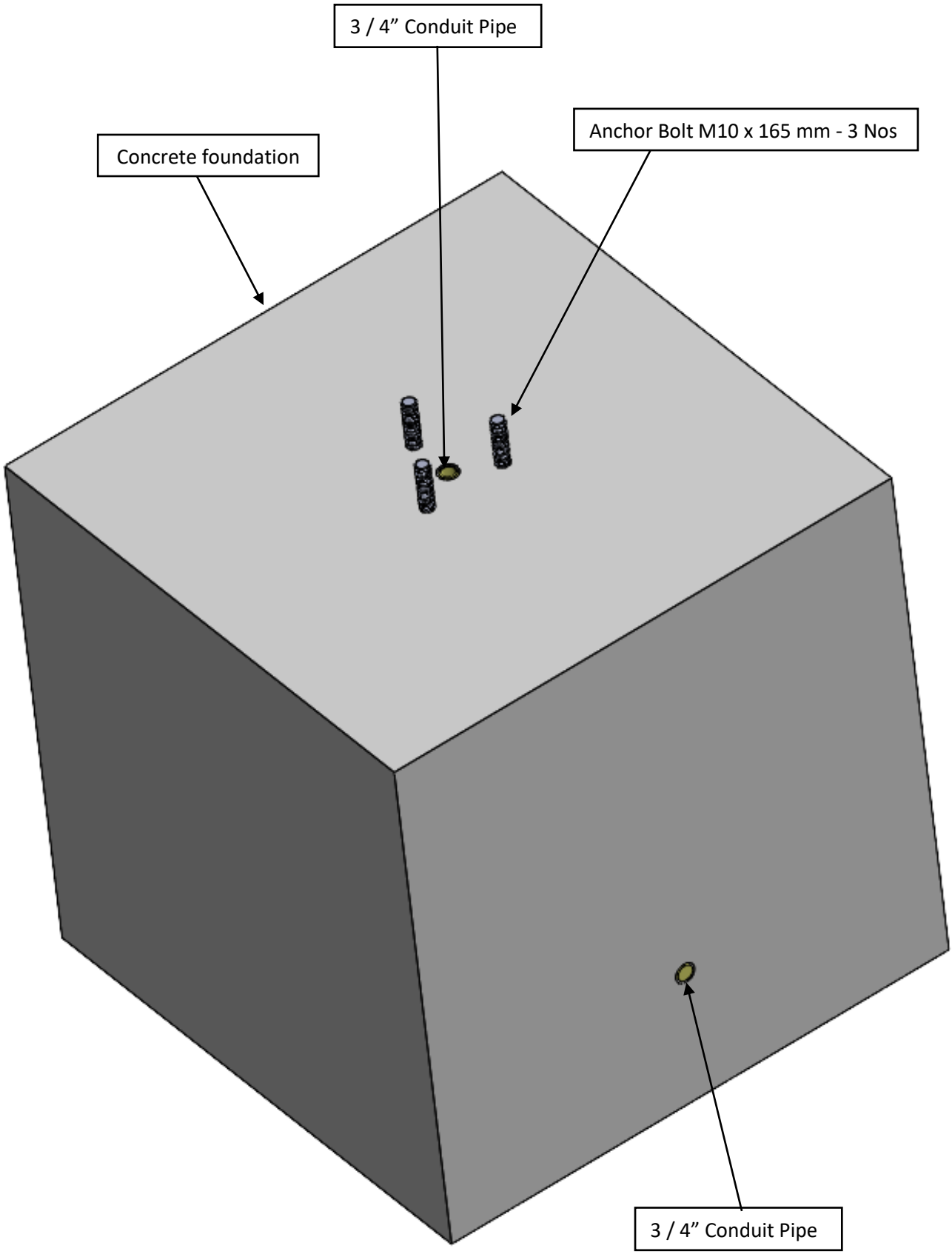
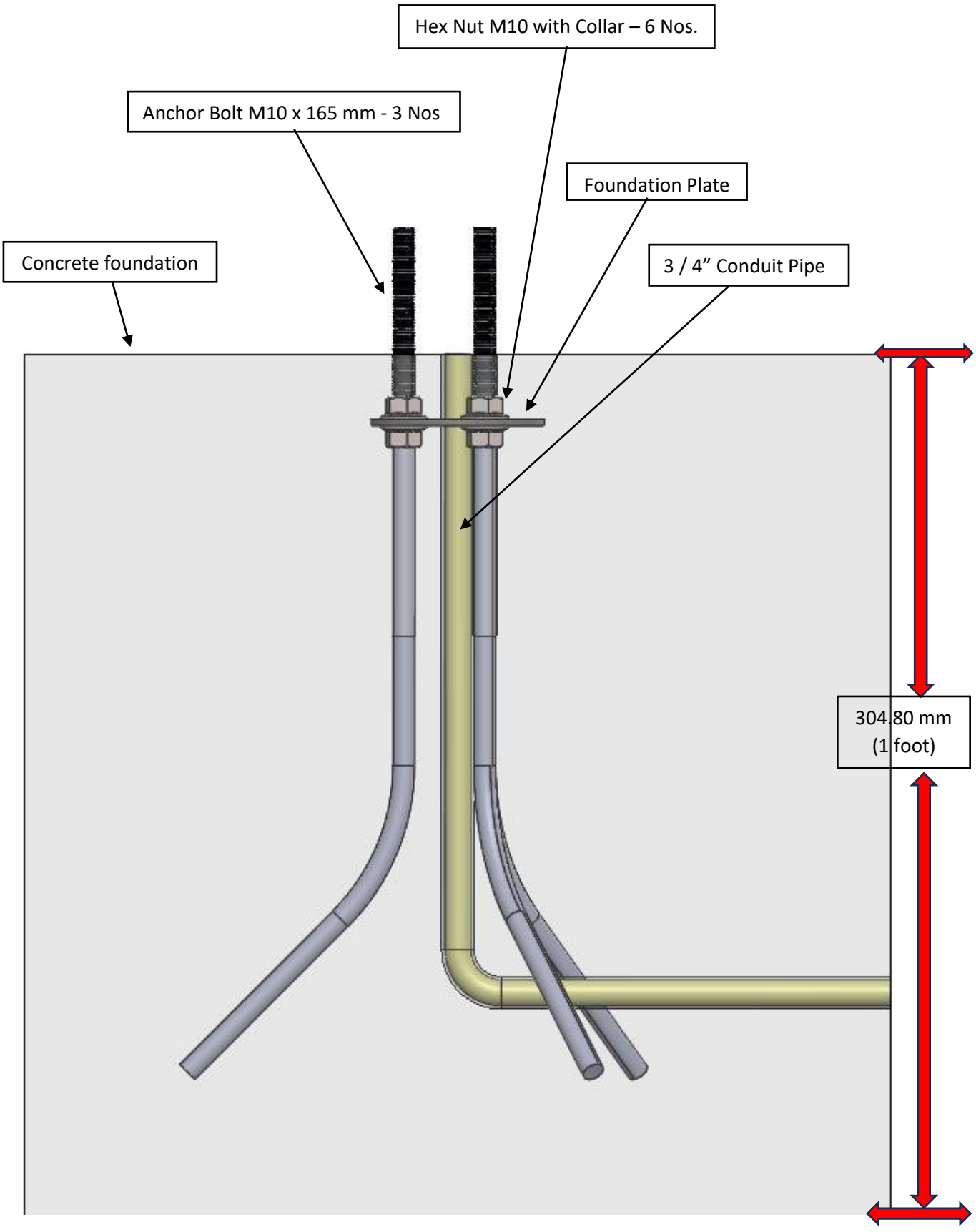
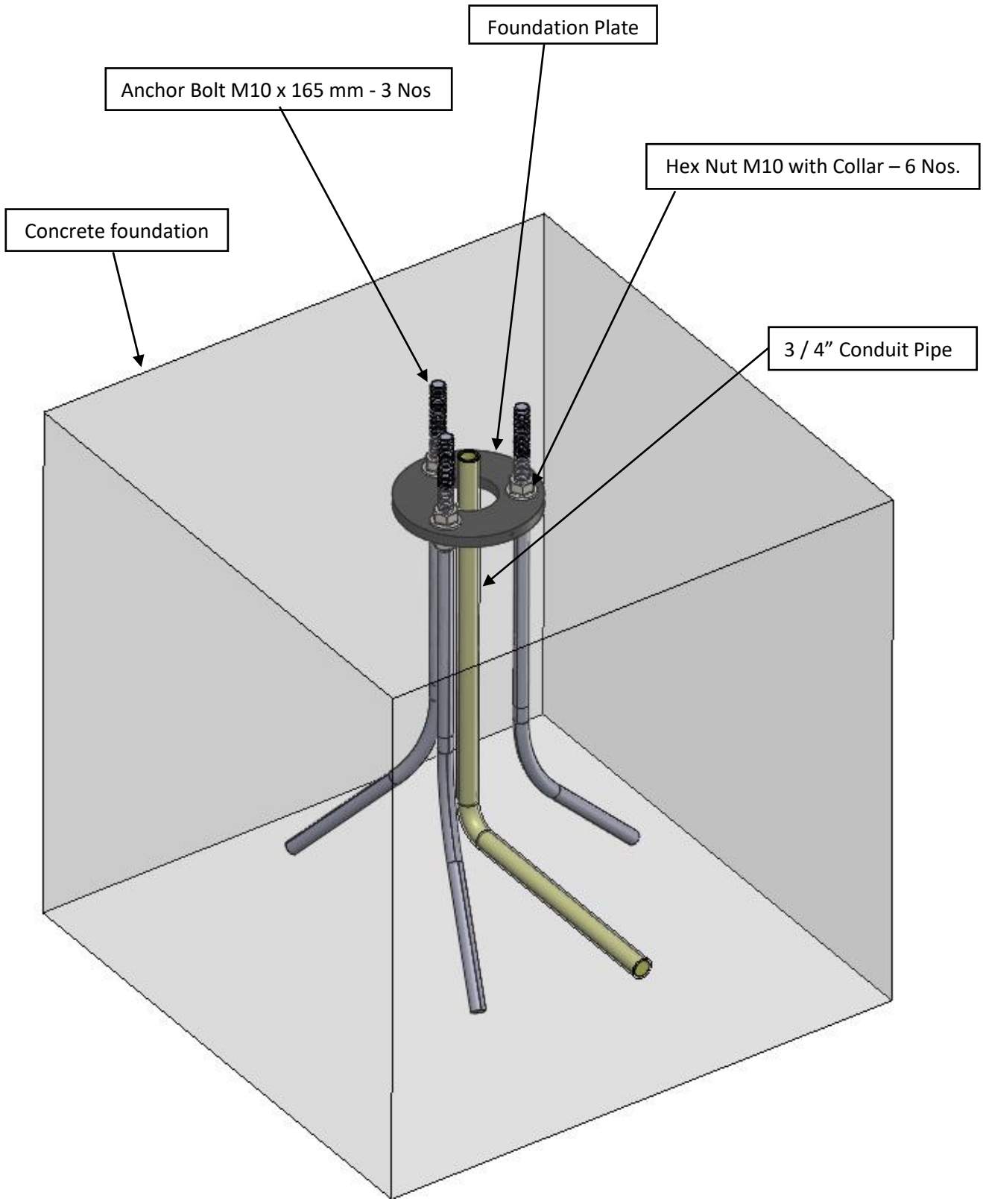


Fig.2 (Top View)

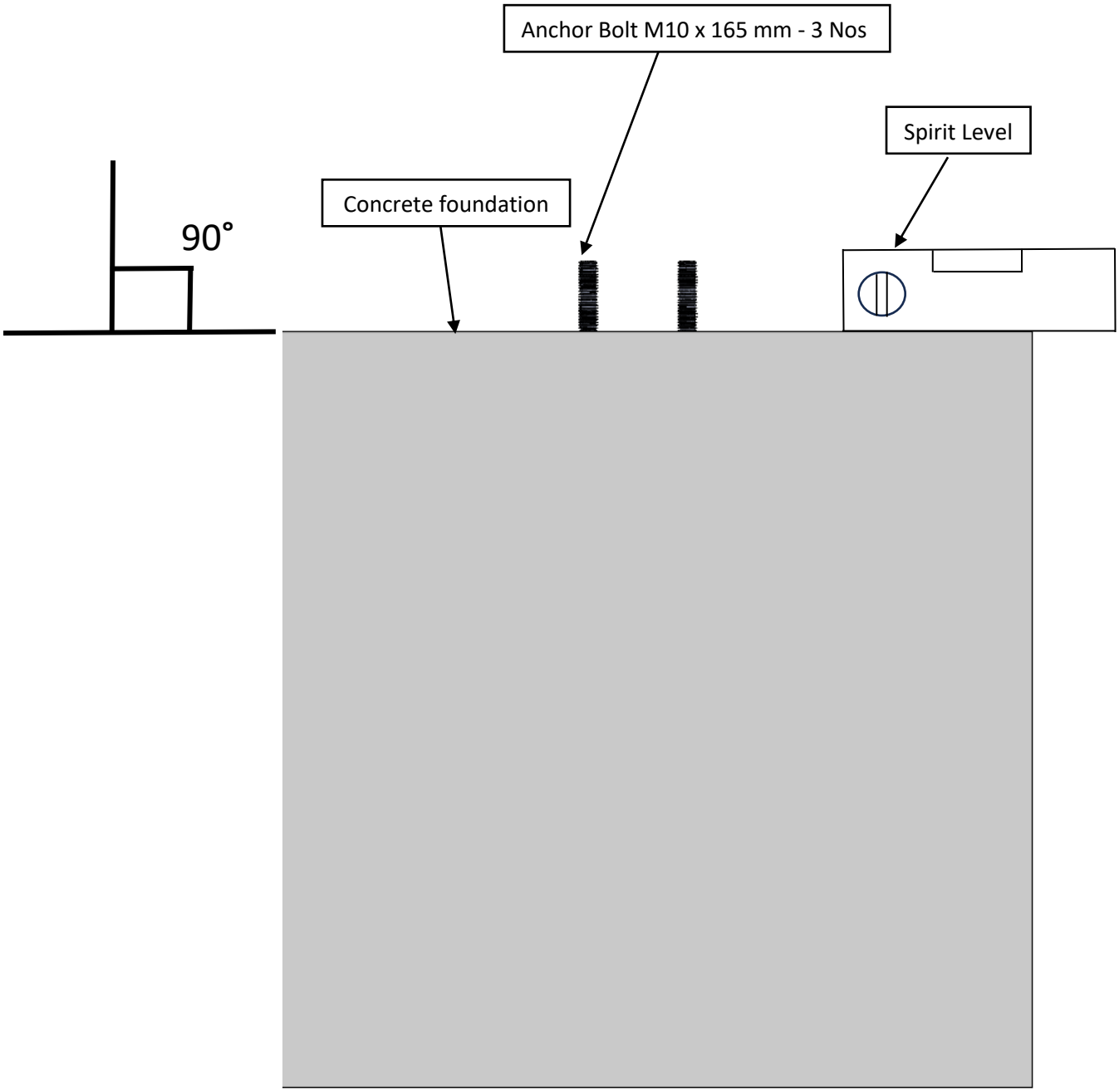

3 / 4” Conduit Pipe
Anchor Bolt M10 x 165 mm - 3 Nos
Concrete foundation
3 / 4” Conduit Pipe

Step 2: The foundation plate is also fit in concrete foundation for alignment of Anchor Bolt M10 x 165 mm by using Hex Nut M10 with collar before final concrete foundation.

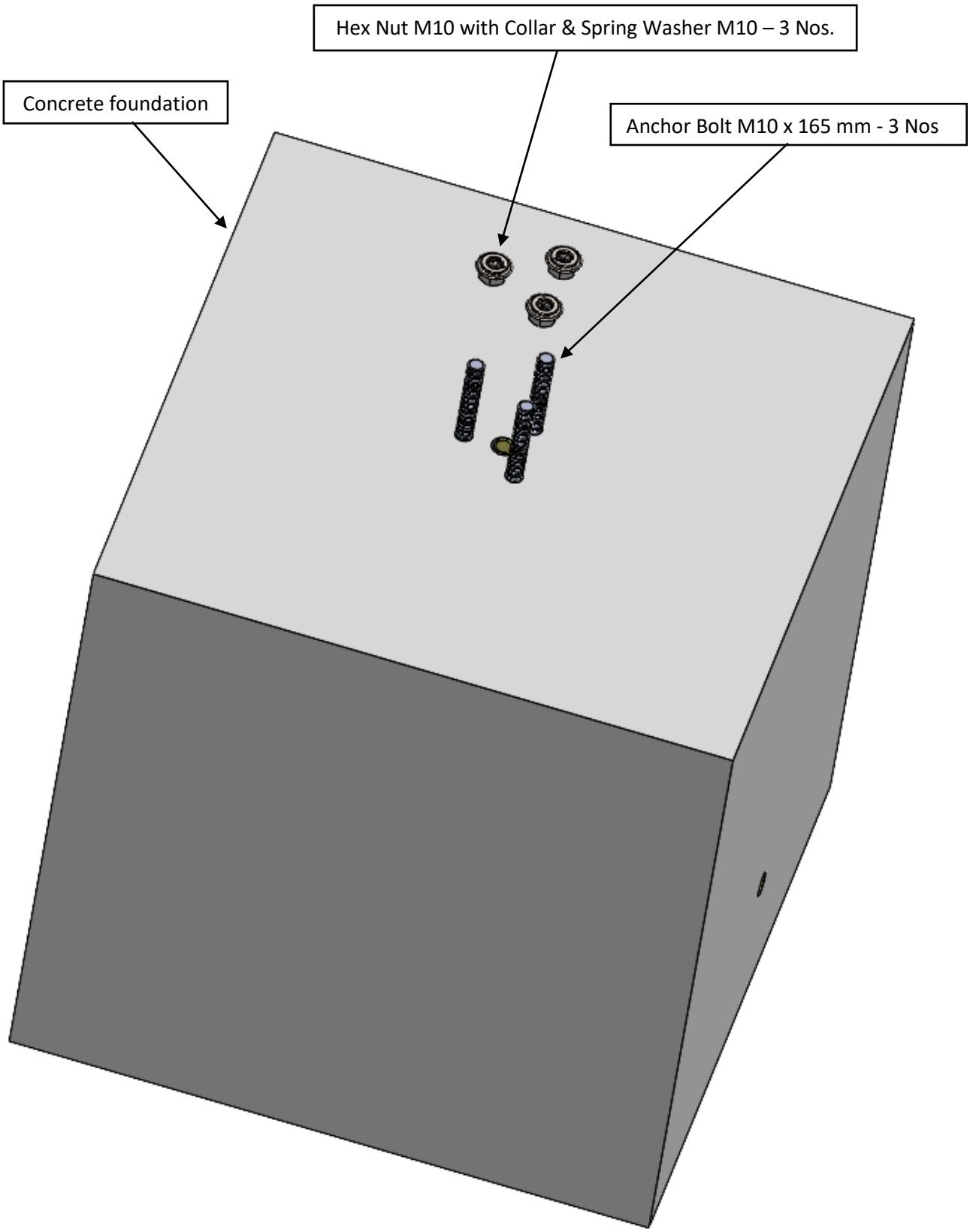


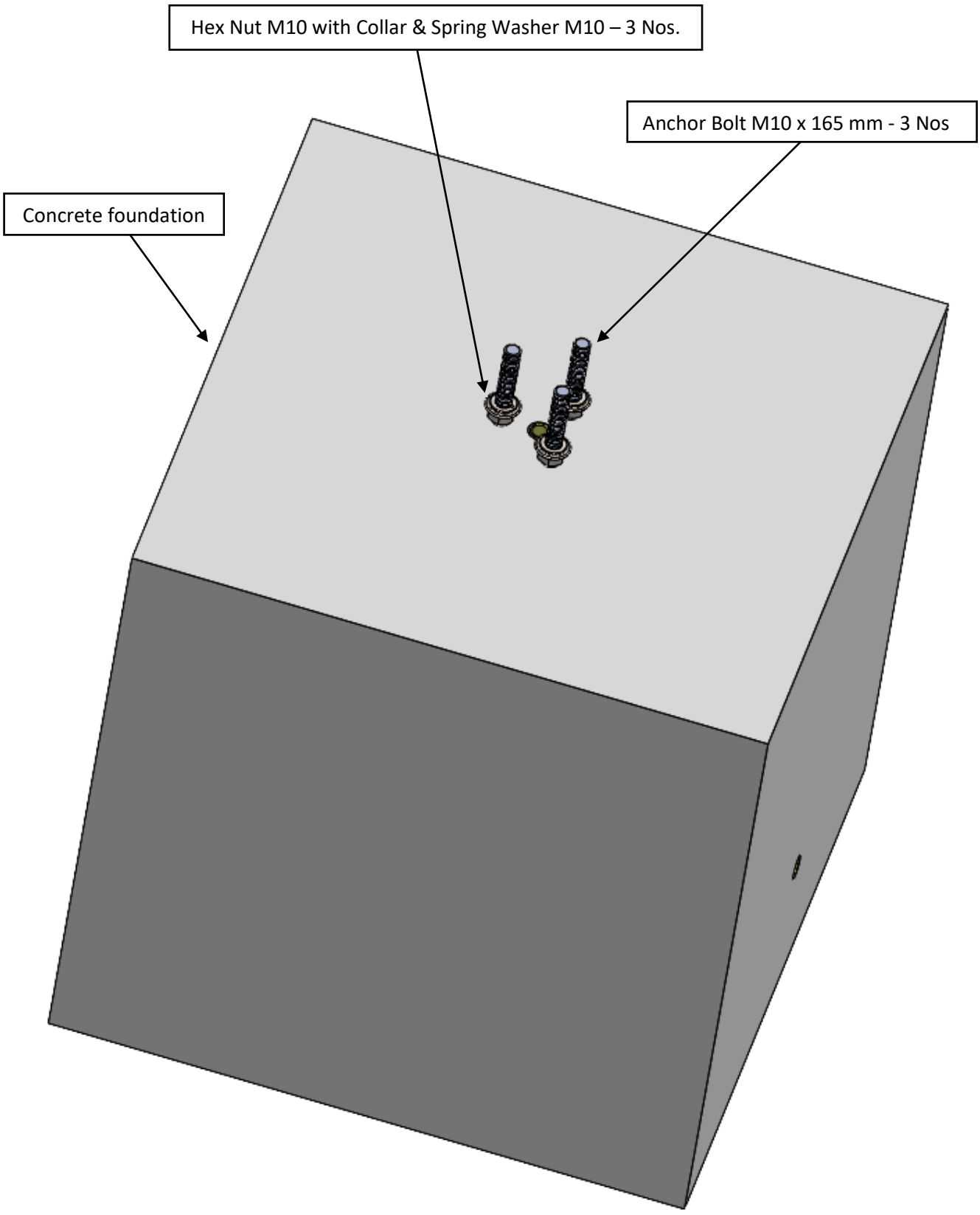

Foundation Plate
Anchor Bolt M10 x 165 mm - 3 Nos
Hex Nut M10 with Collar – 6 Nos.
Concrete foundation
3 / 4” Conduit Pipe

Step 3: To make sure that concrete foundation base should be in level 90˚ as shown in below figure. The spirit level is use for check level.

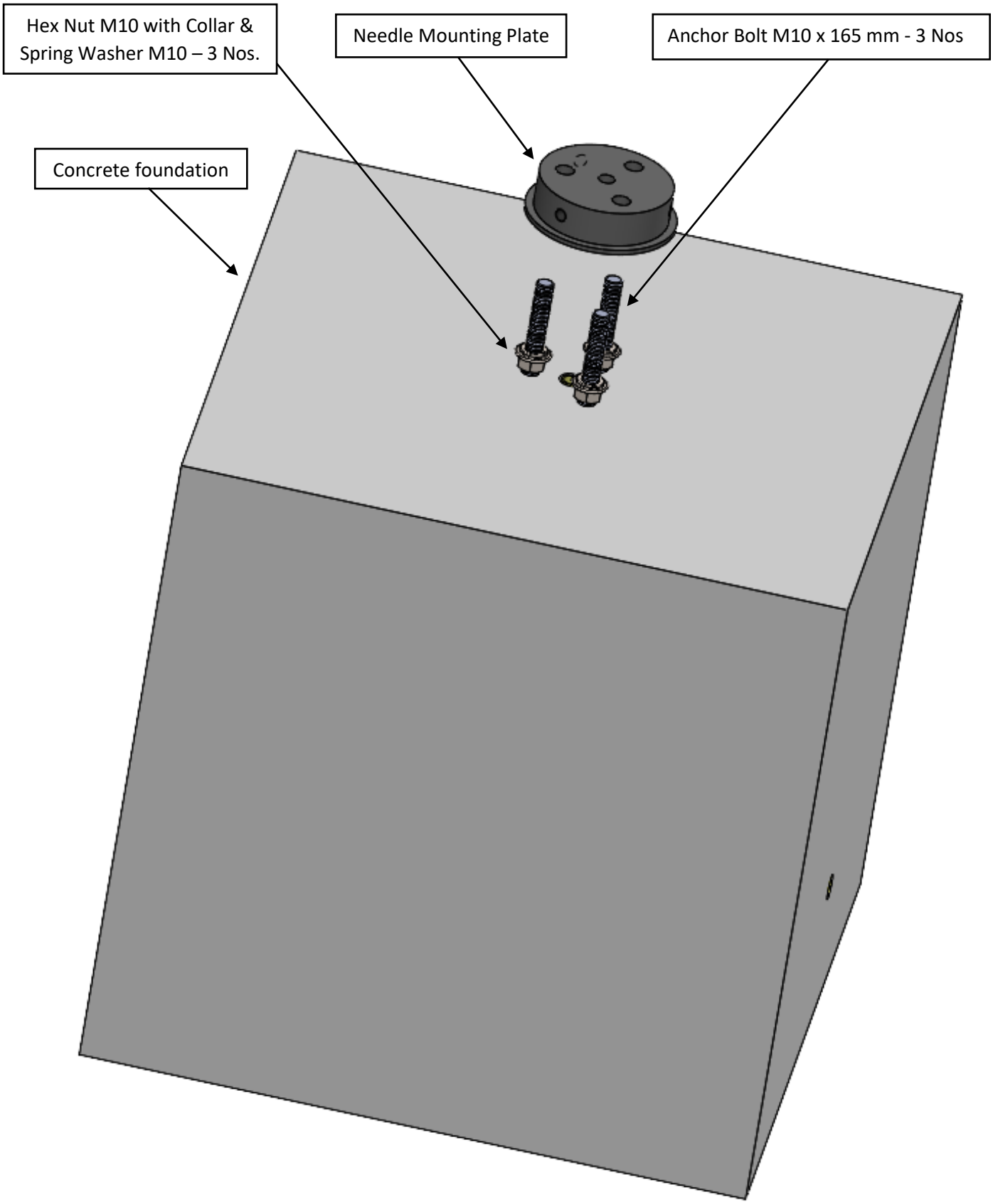


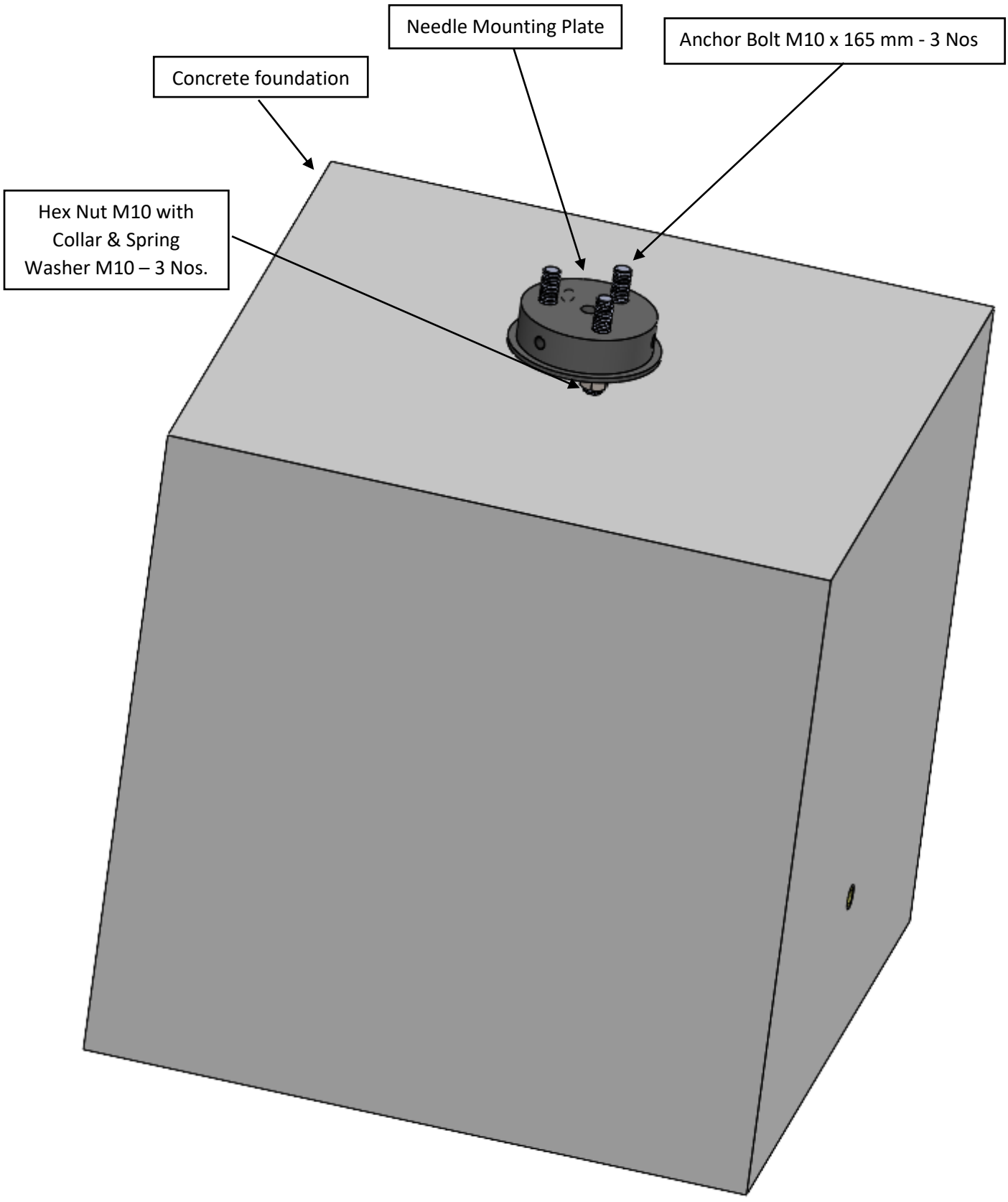
Step 4: Hex Nut M10 with Collar & Spring Washer M10 fit in anchor bolt M10 x 165 mm as shown in below figure.



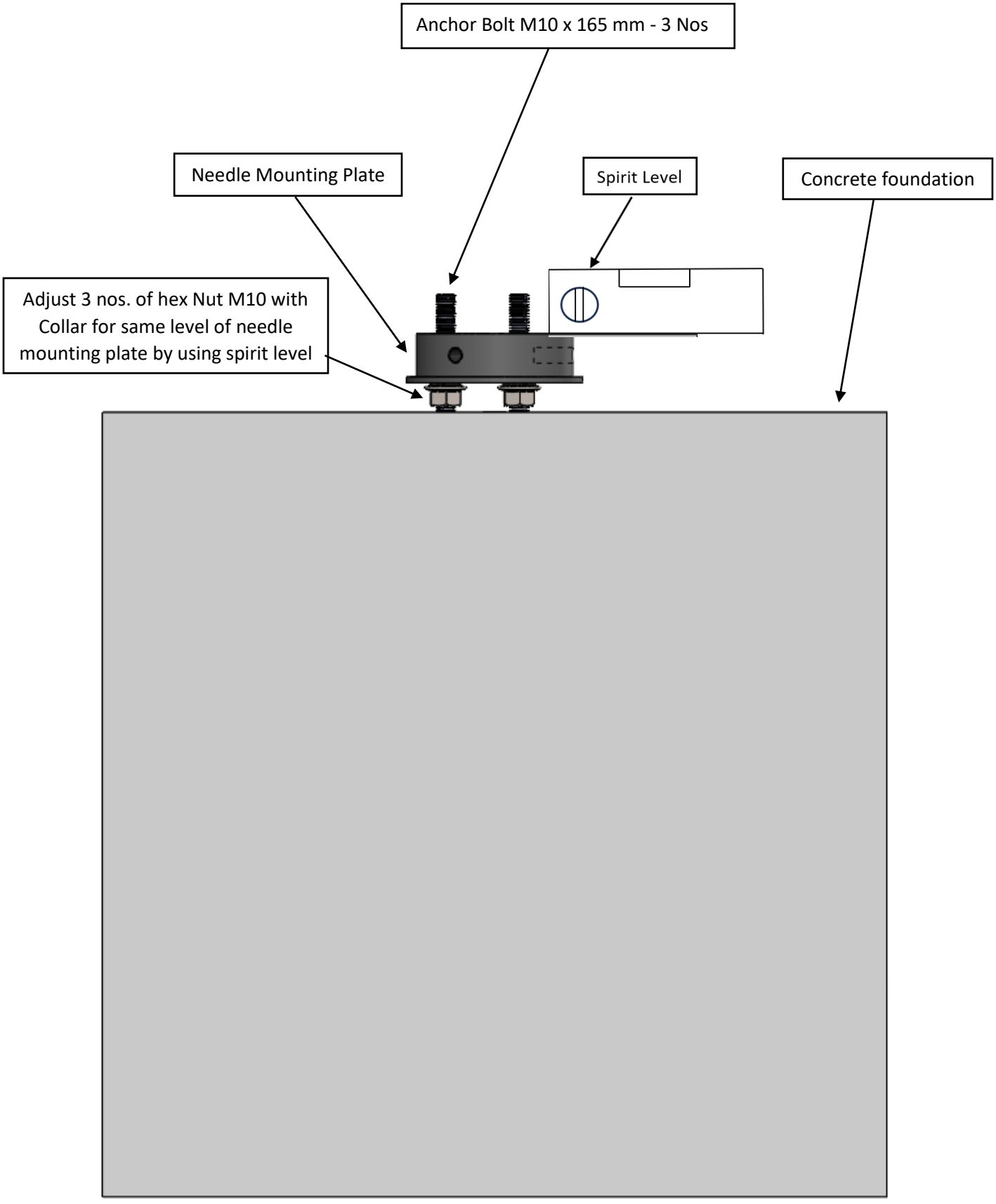

Hex Nut M10 with Collar & Spring Washer M10 – 3 Nos.
Anchor Bolt M10 x 165 mm - 3 Nos
Concrete foundation

Step 5: Needle mounting plate insert in anchor bolt M10 x 165 mm, then Needle mounting plate resting on Hex Nut M10 with collar as shown in below figure.

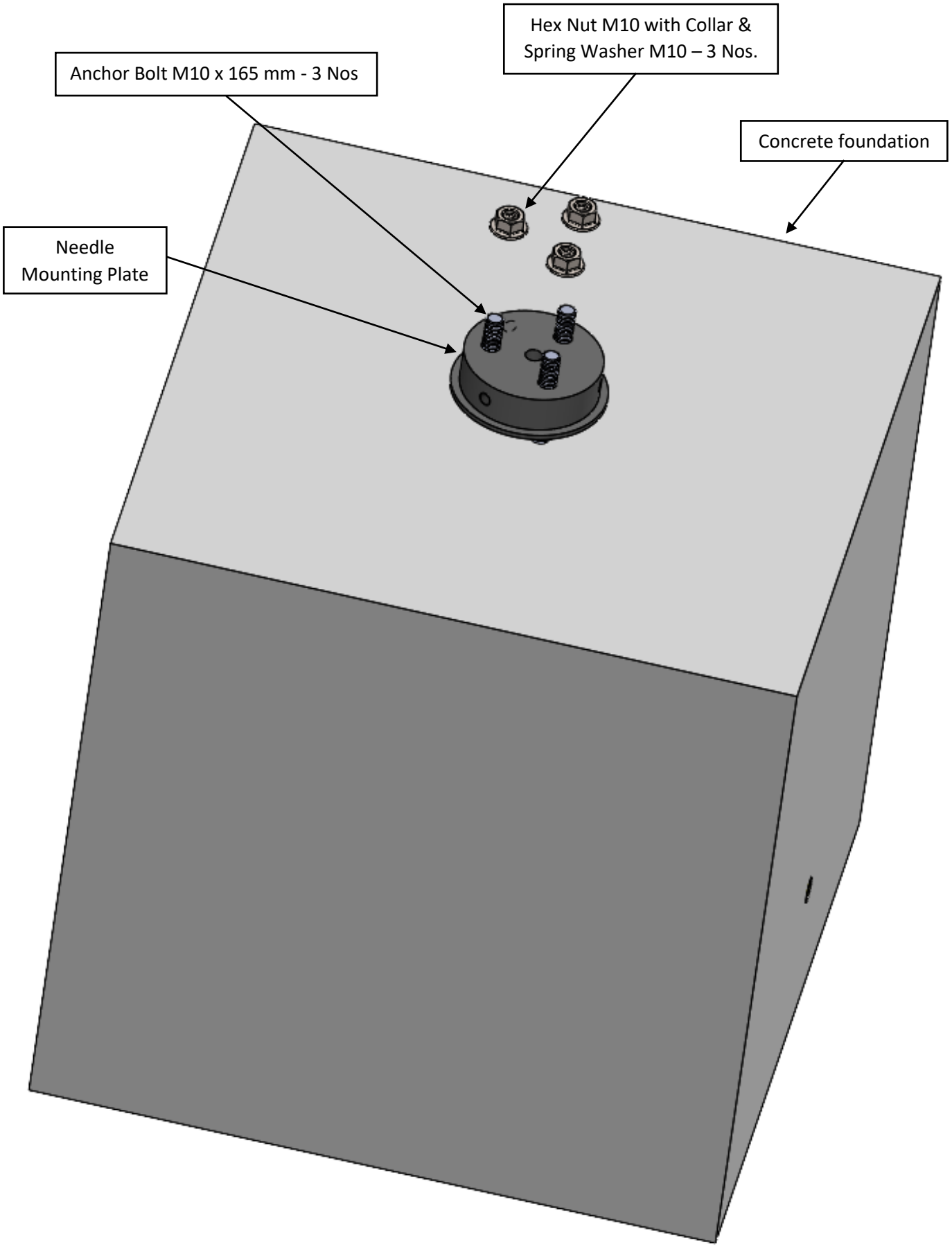


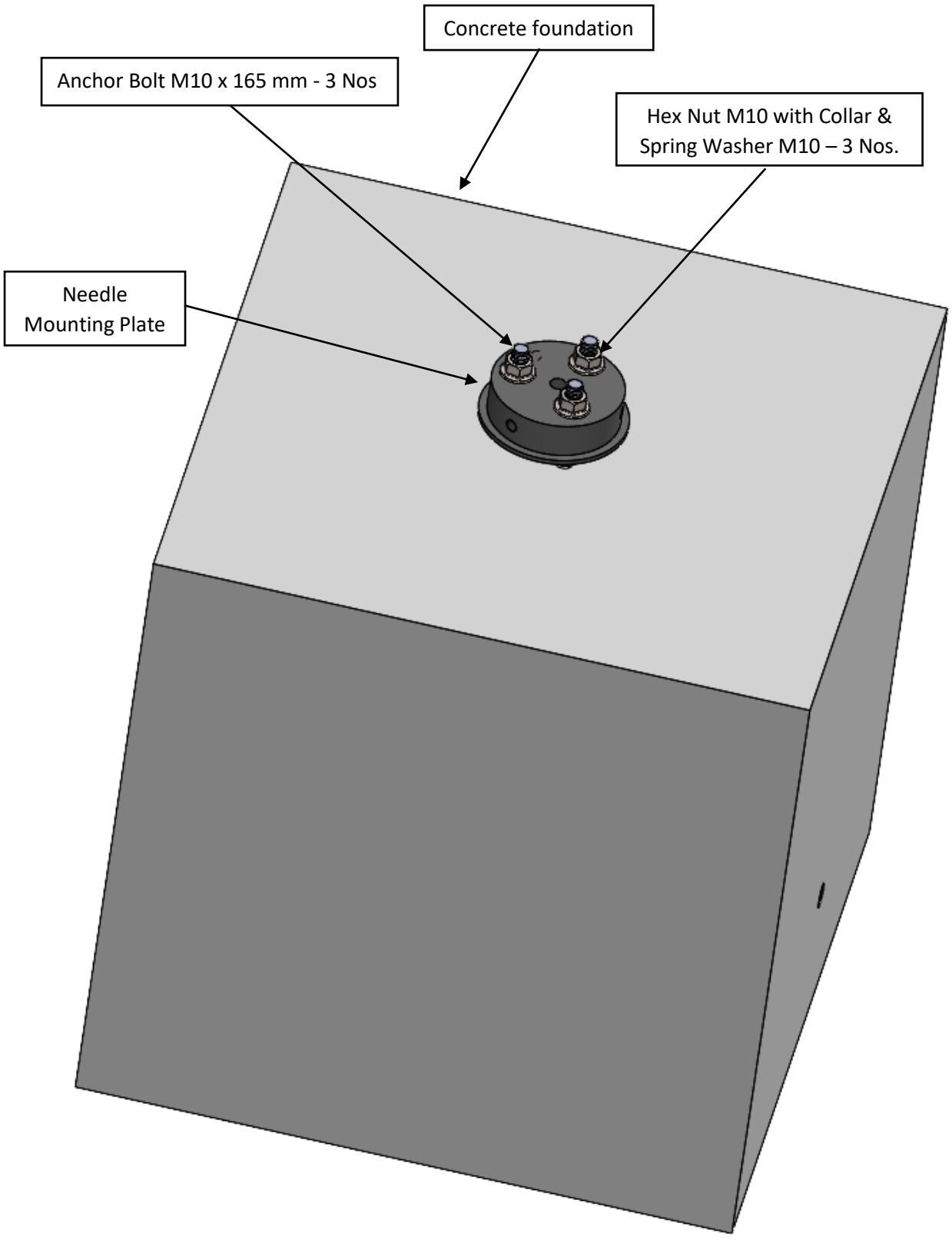

Needle Mounting Plate
Anchor Bolt M10 x 165 mm - 3 Nos
Concrete foundation
Hex Nut M10 with Collar & Spring Washer M10 – 3 Nos.

Step 6: Adjust 3 Nos. of Hex Nut M10 with Collar for same level of needle mounting plate by using spirit level.

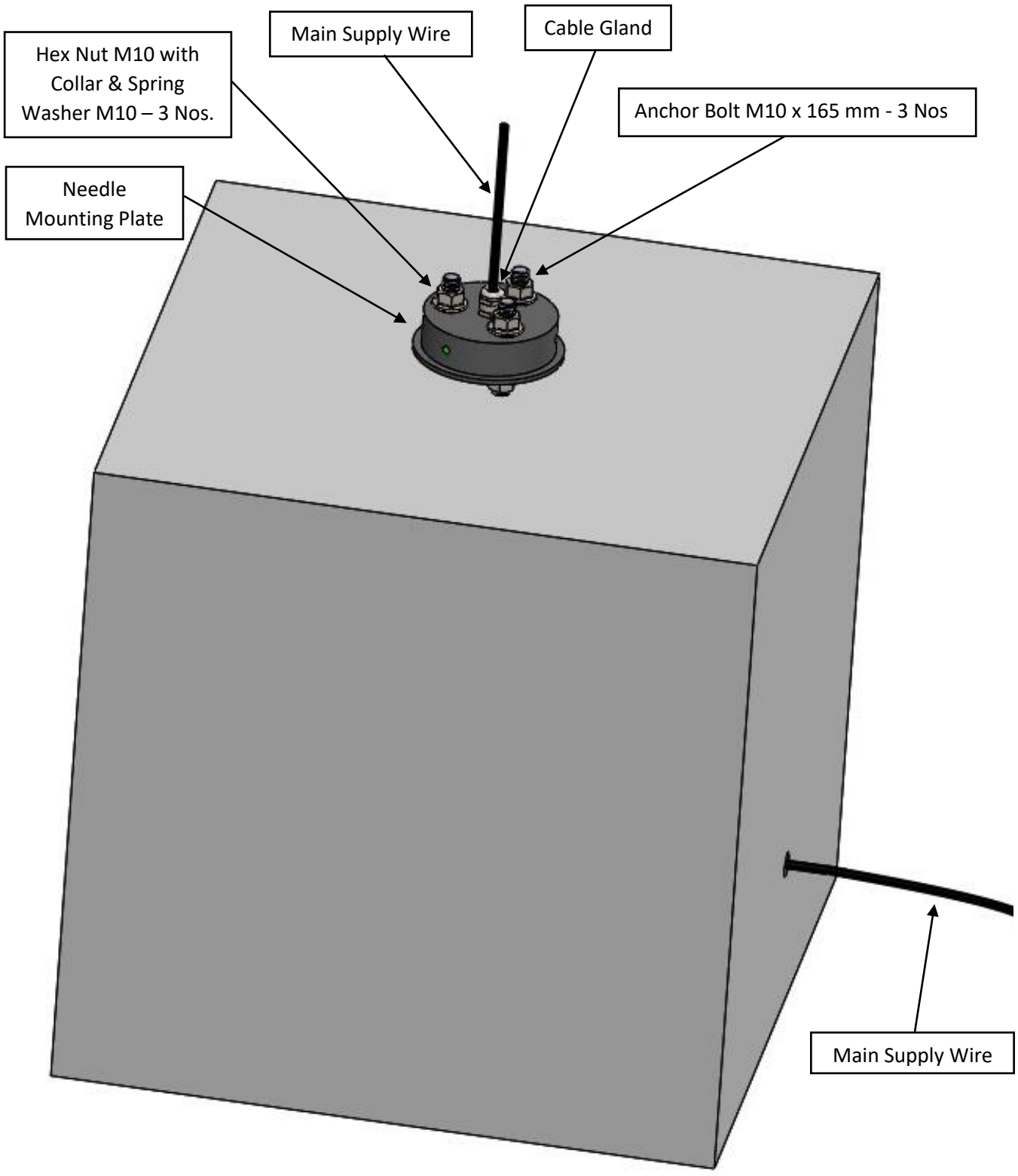


Step 7: The Needle mounting plate fix with concrete foundation by using Hex Nut M10 with Collar & Spring Washer M10 as shown in below figure.

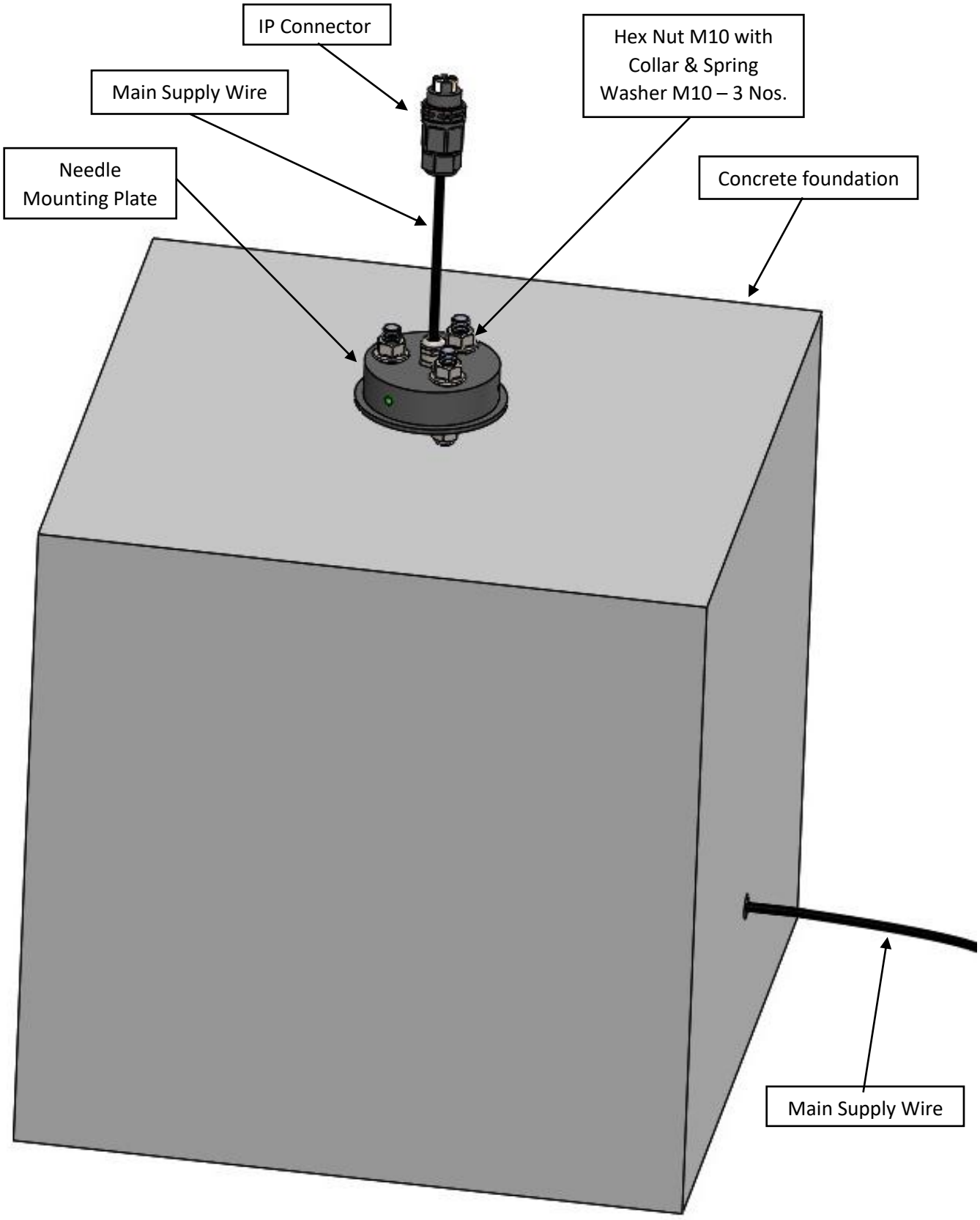



Concrete foundation
Anchor Bolt M10 x 165 mm - 3 Nos
Hex Nut M10 with Collar &
Spring Washer M10 – 3 Nos.
Needle
Mounting Plate

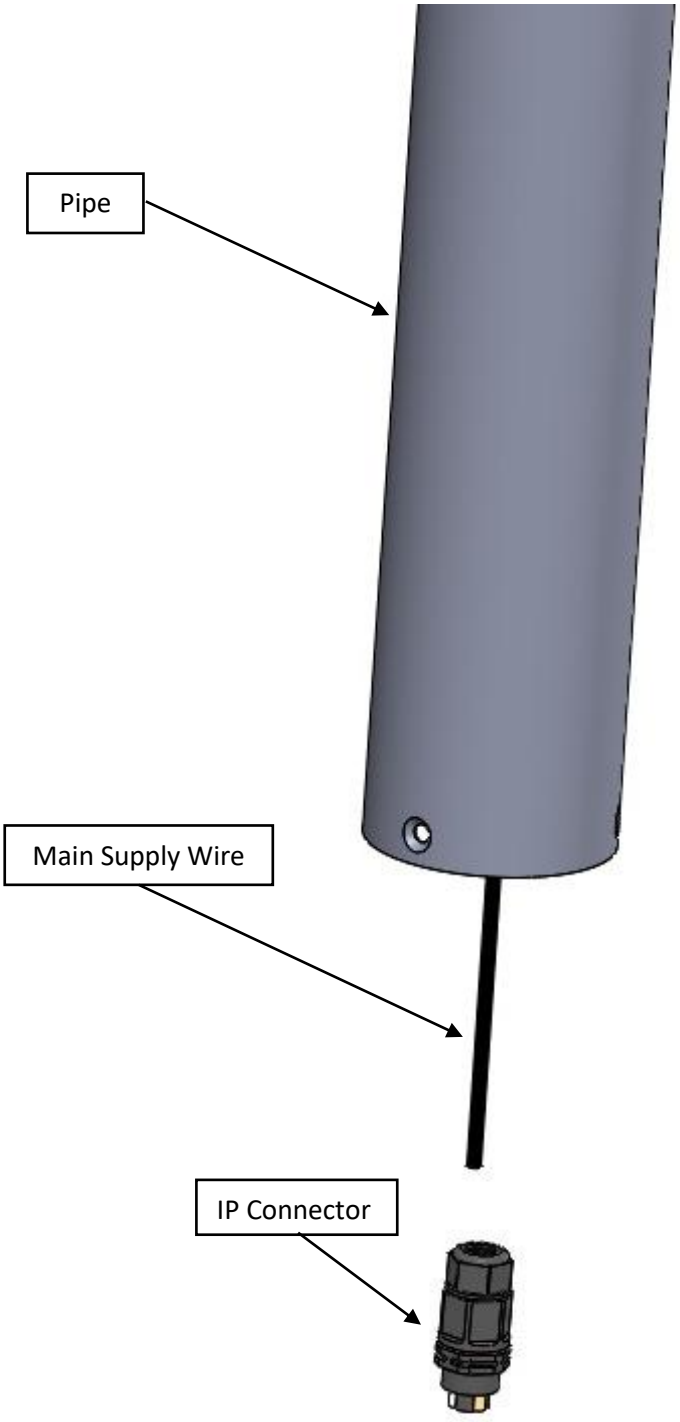
Step 8: Take out the main supply wire from needle mounting plate to cable gland to conduit pipe as shown in below figure.

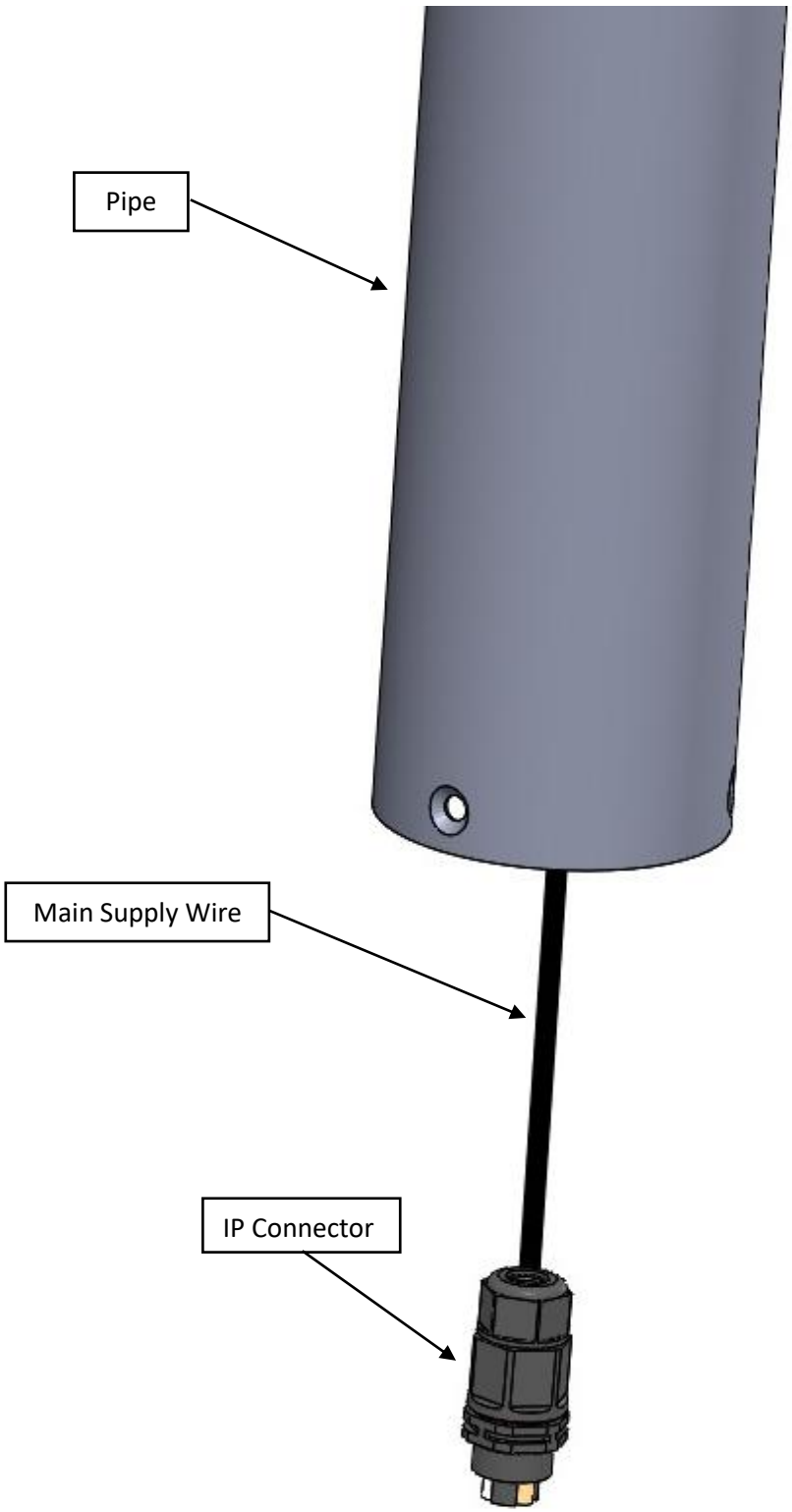


Step 9: Connect IP connector with main supply wire as shown in below figure.

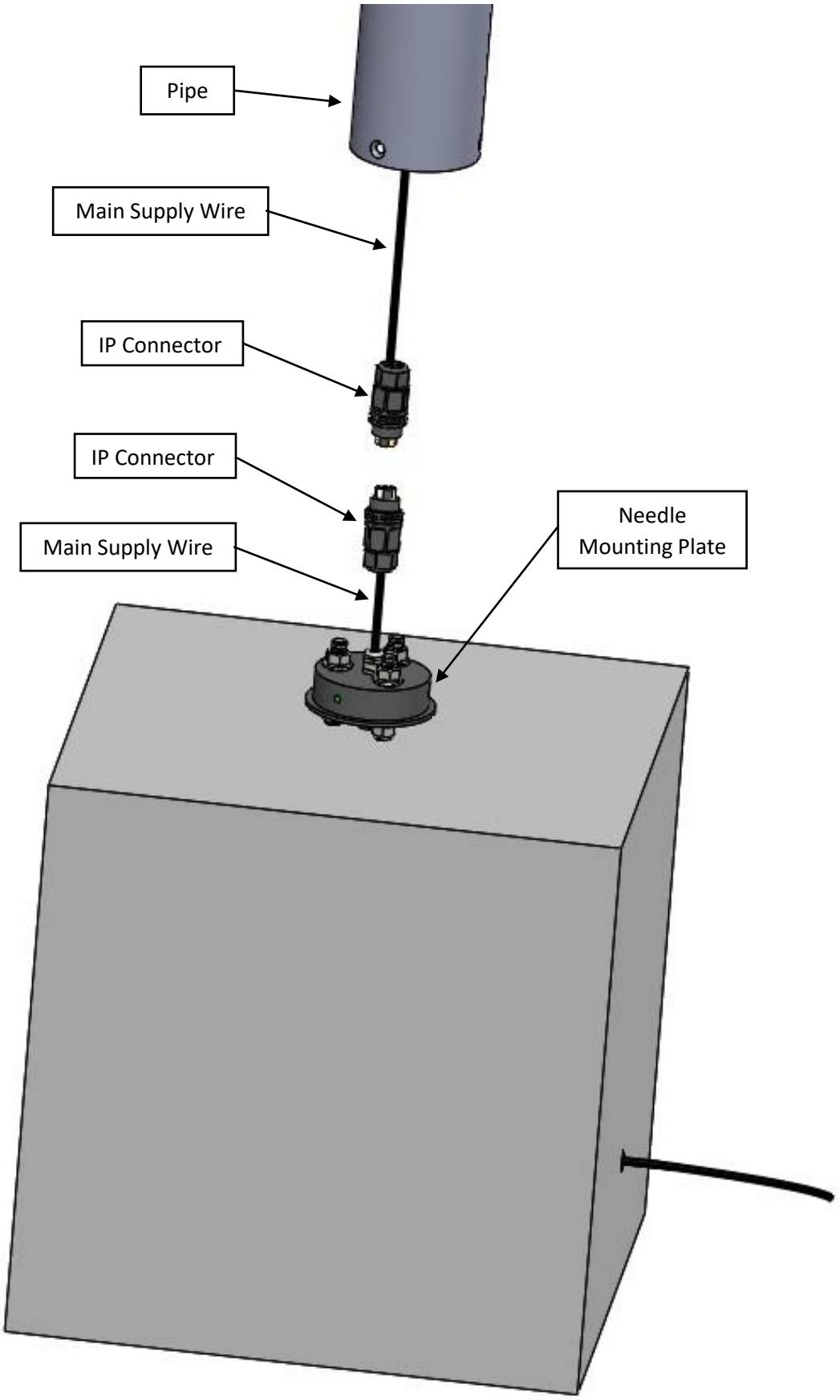


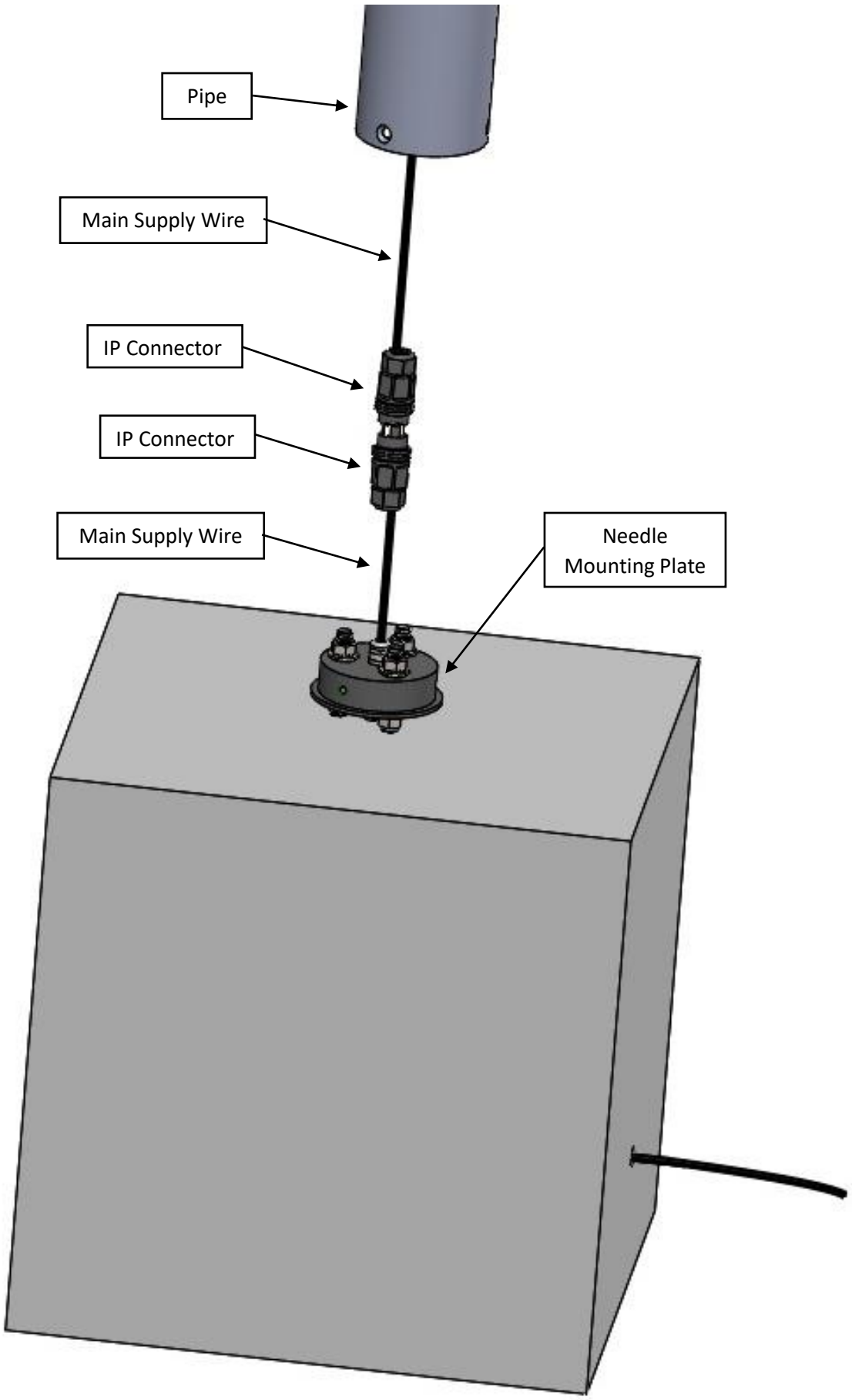
Step 10: Connect IP connector with main supply wire at pipe side as shown in below figure.



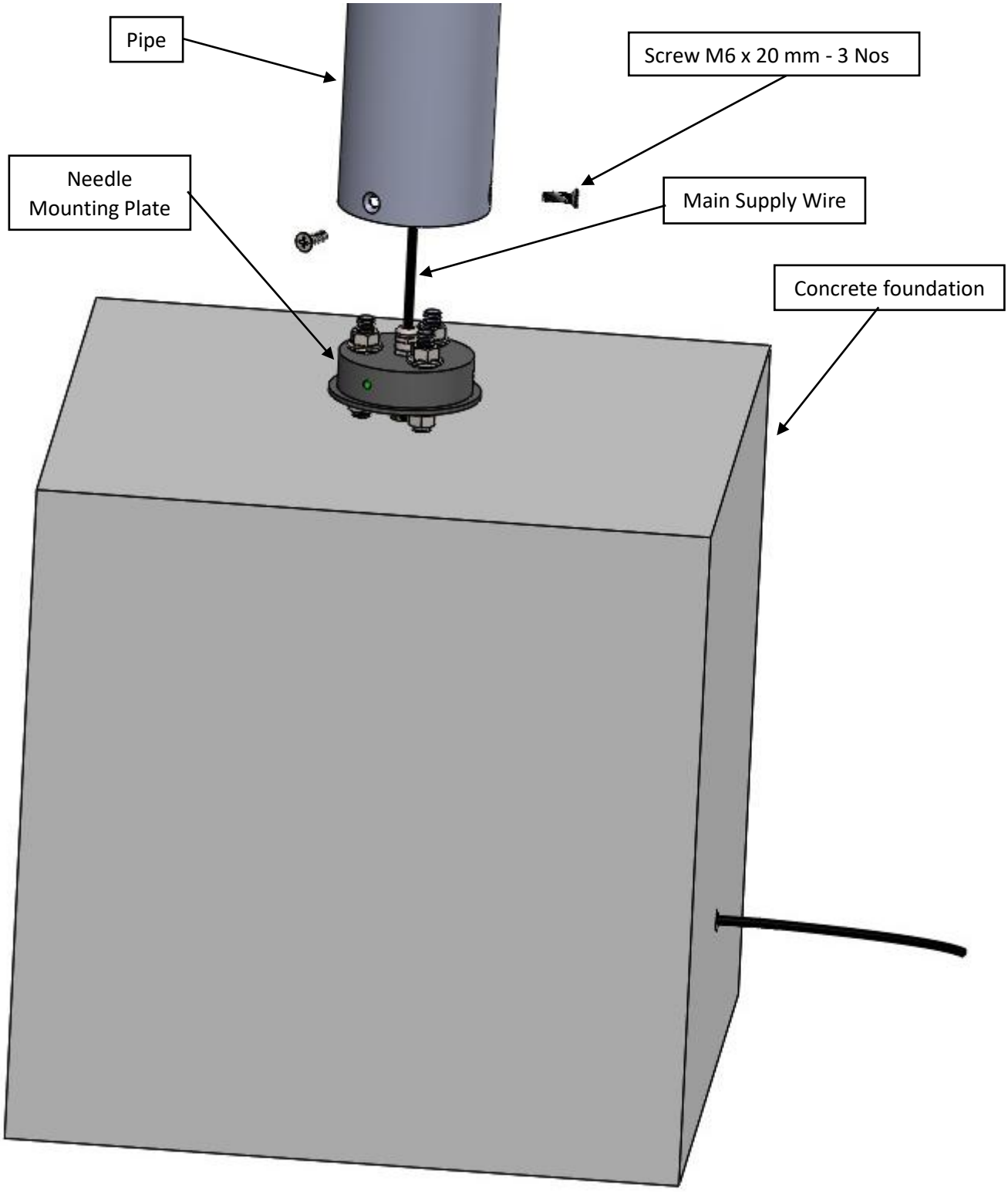

Pipe
Main Supply Wire
IP Connector

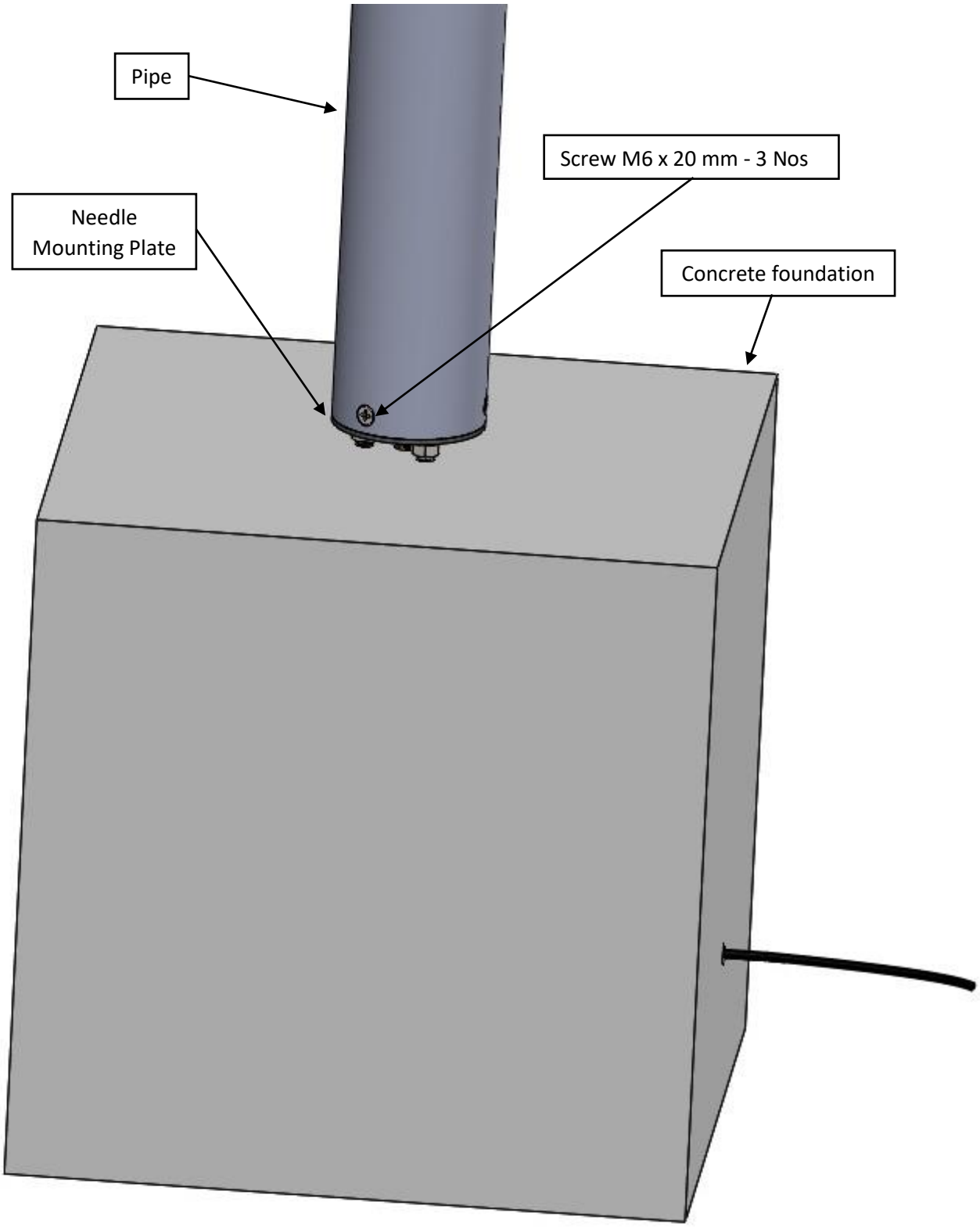
Step 11: Connect both main supply wire by using IP connector as shown in below figure.

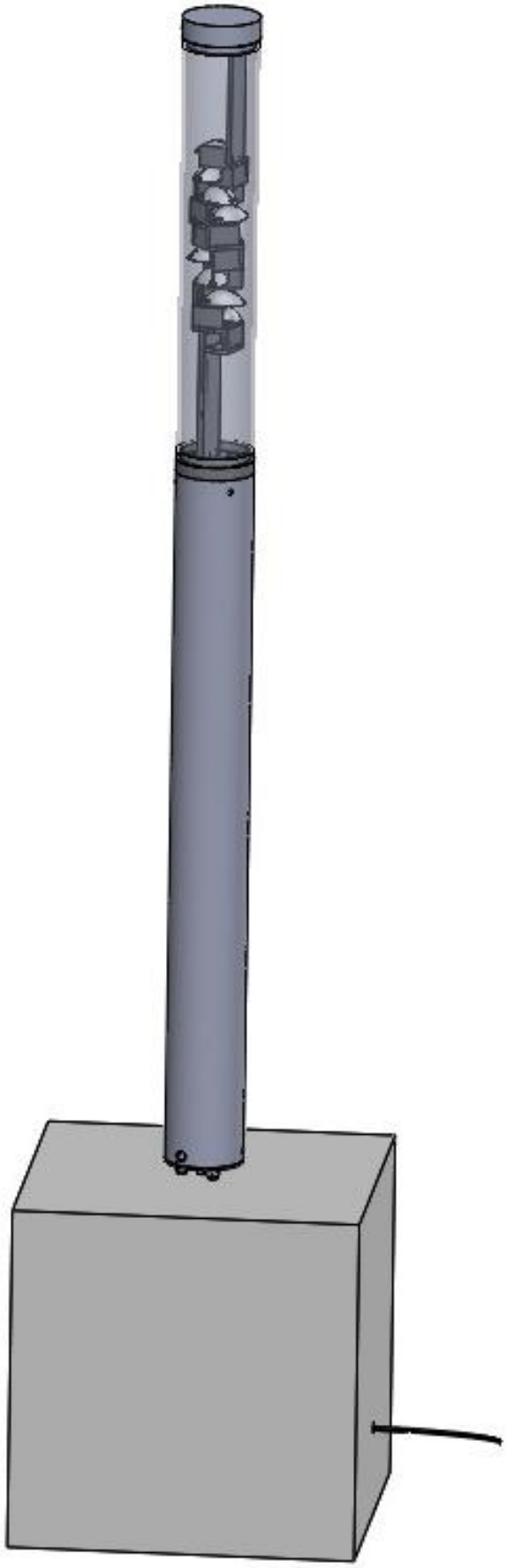



Pipe
Main Supply Wire
IP Connector
IP Connector
Main Supply Wire
Needle
Mounting Plate

Step 12: The pipe fix with needle mounting plate by using screw M6 x 20 mm as shown in below figure.




Pipe
Screw M6 x 20 mm - 3 Nos
Needle
Mounting Plate
Concrete foundation



Installation is complete. Lights can be Turned On!