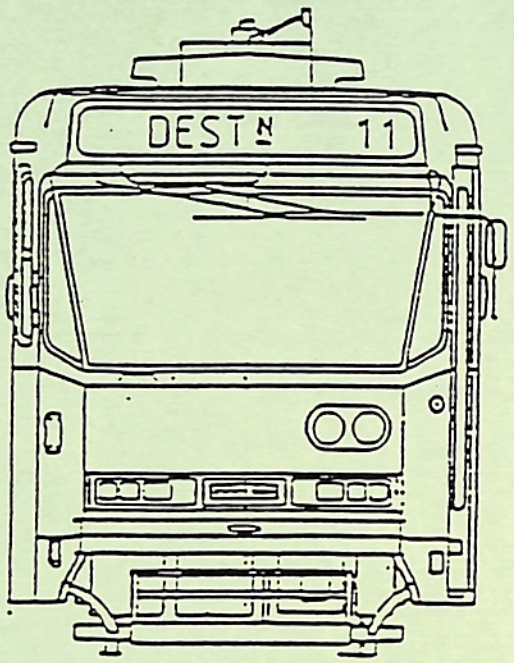
APPRECIATION OF TRAM OVERHEAD

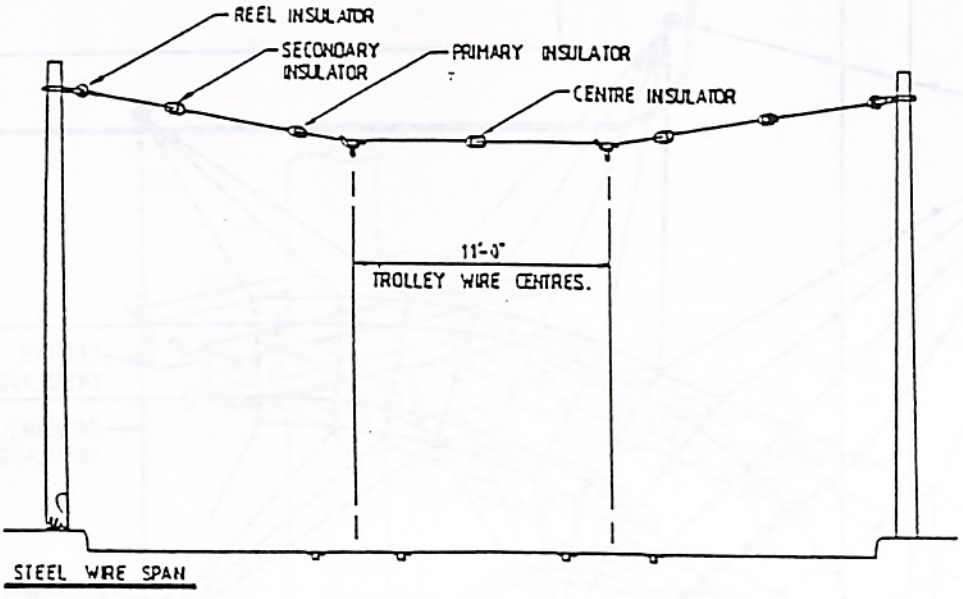
AND UNDERGROUND CABLES



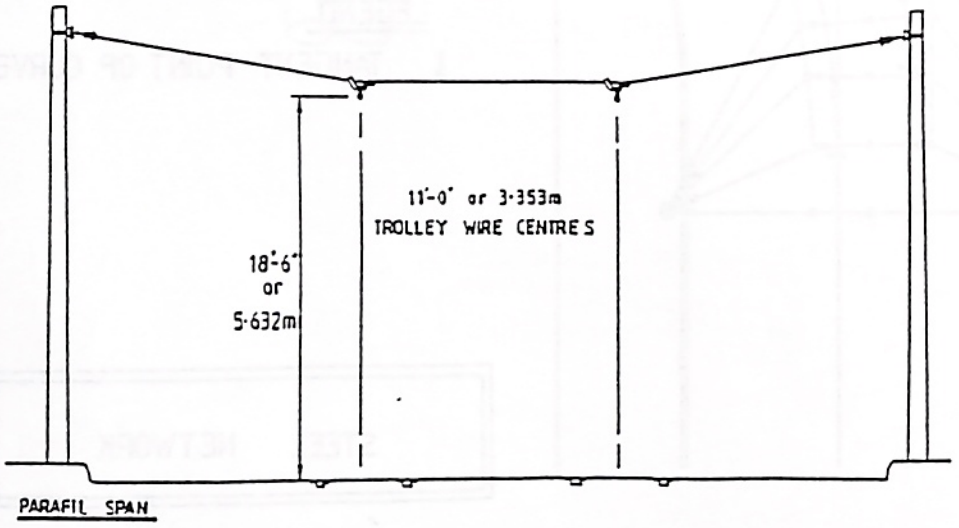
STEEL SPANS ABOVE STRAIGHT ROADWAYS

A Contractor must ensure that their employees or employees when operating plant machinery and mobile cranes under Trolley Wires, Fittings and support spans of the Tram Overhead system, they must maintain **AT ALL TIMES** a clearance of 2.0 **METRES** from a street Traction Trolley Wire and any wire or cable supporting the Trolley Wire.

If the minimum clearance cannot be maintained then arrangements must be made for the Trolley Wires, Fittings and support spans to be isolated or covered with insulating materials.



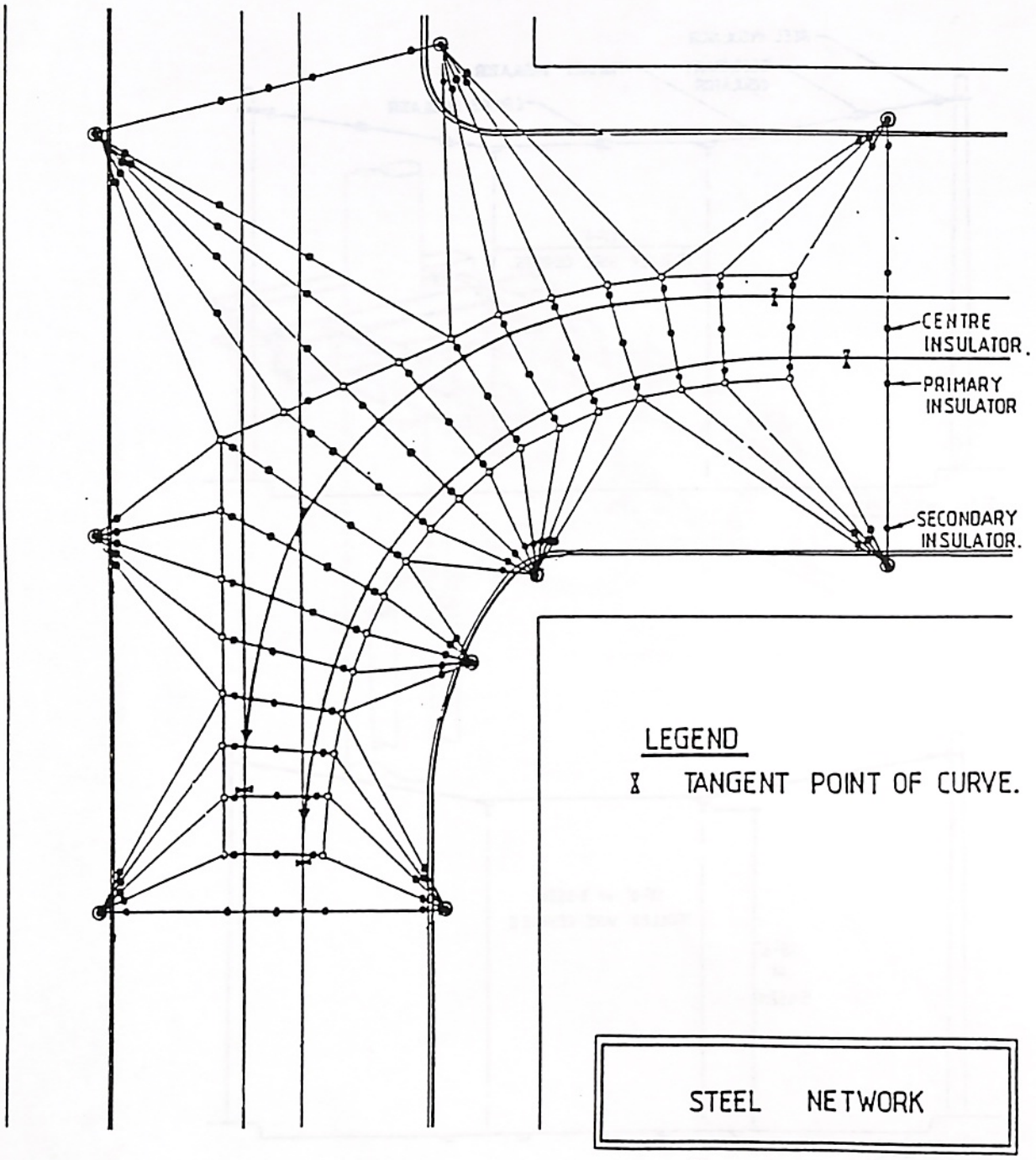
STEEL WIRE SPAN



PARAFIL SPAN

STEEL SPANS ABOVE CURVE AND INTERSECTION

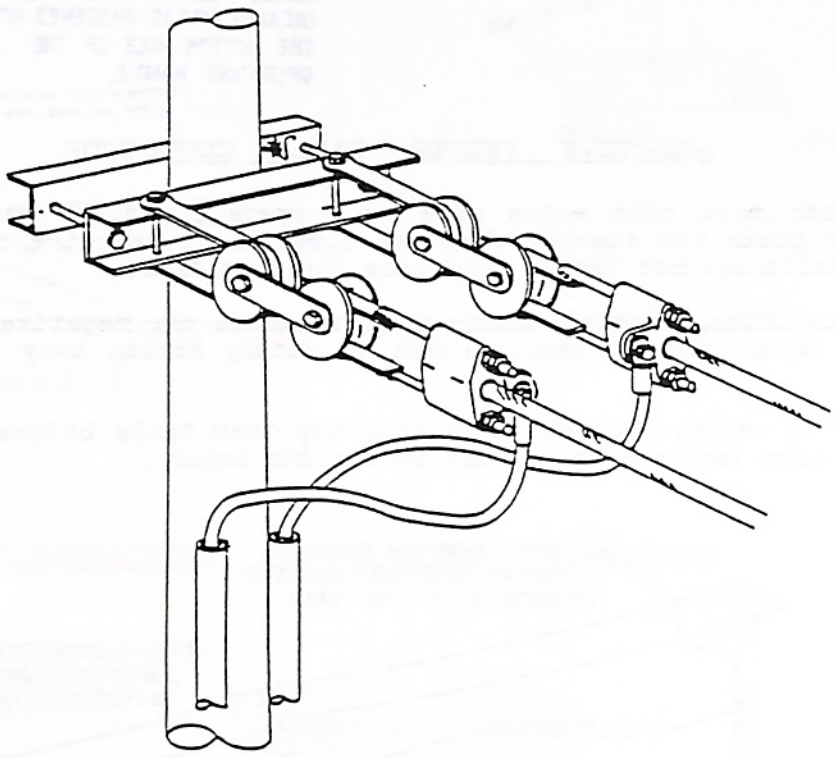
Where steel spans support 600 volt contact wires above curves or intersections, steel spans shall always be considered as potential live wires.



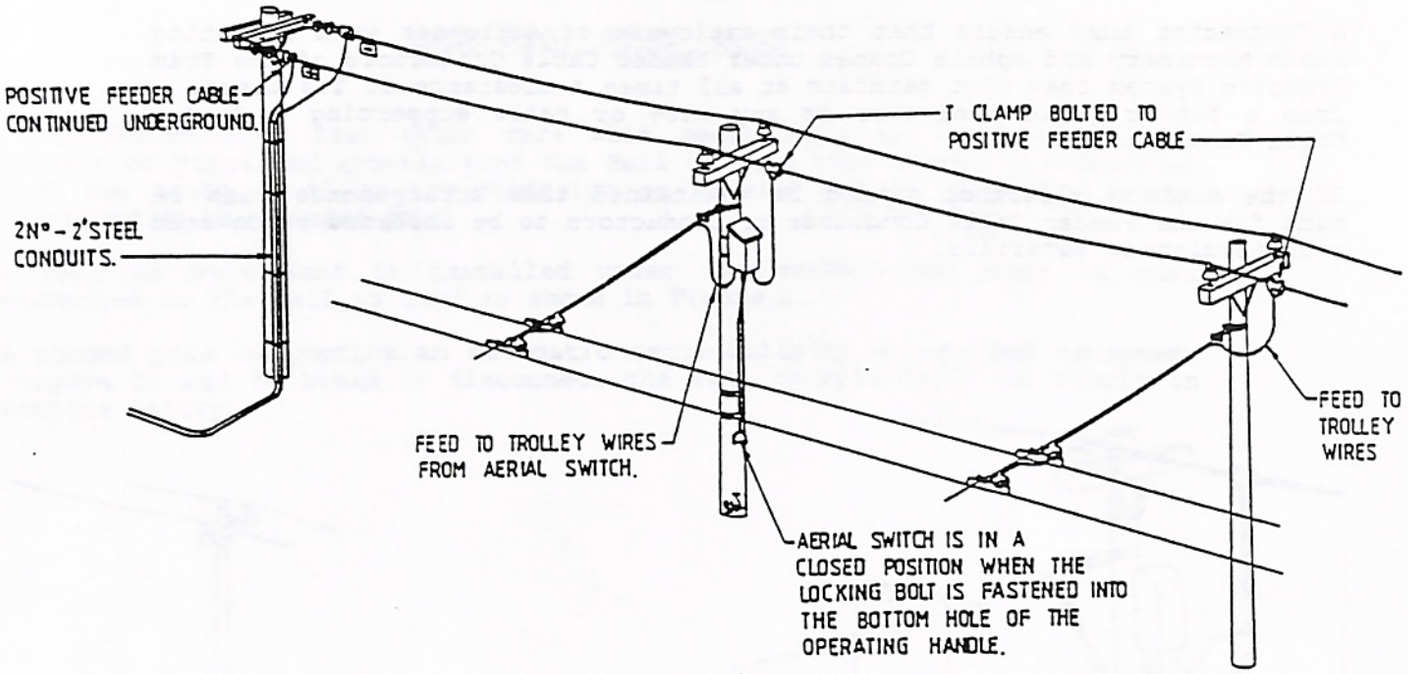
FEEDER CABLES CONDUCTORS

A Contractor must ensure that their employees or employees when operating Plant Machinery and Mobile Cranes under feeder Cable Conductors of the Tram Traction System they must maintain at all times a clearance of **2.0 metres** from a feeder cable conductor or any wire or cable supporting a Feeder Cable Conductor.

If the minimum clearance cannot be maintained then arrangements must be made for the Feeder Cable Conductor or Conductors to be isolated or covered with insulating materials.



POSITIVE FEEDER CABLE CONDUCTOR

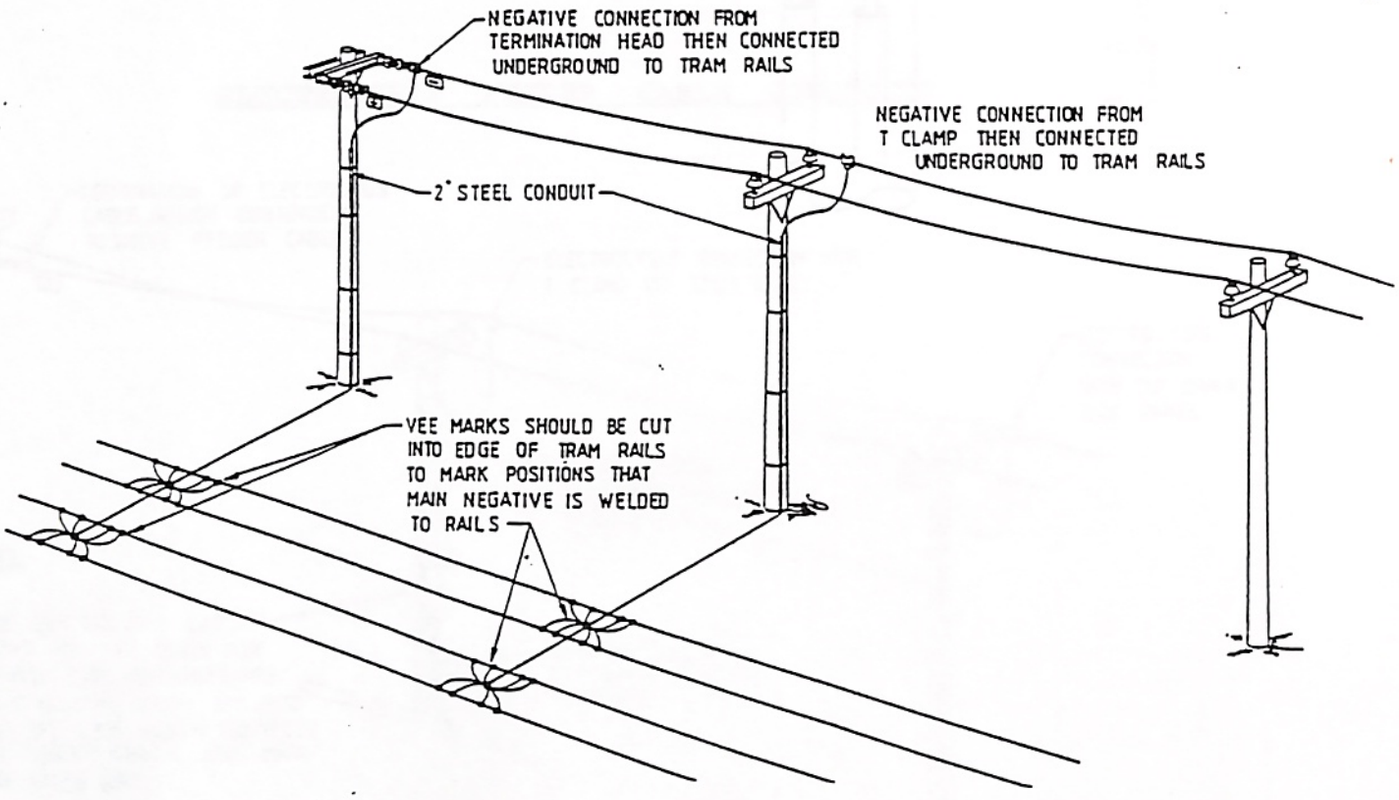


NEGATIVE FEEDER CABLE CONDUCTOR

A Contractor must take extra care when operating plant machinery, jack hammers or picks and shovels that the clusters or negative connections to the Tram Rails are not broken away from the Tram Rails.

Carlton Electrical Control Centre must isolated the negative feeder cable conductor before the connections can be safely broken away from the Tram Rails.

To break the negative connections from the Tram Rails before the negative cable has been isolated can result in serious injury.



RAIL TO POLE BOND

A Contractor must take extra care when operating plant machinery, jack hammers or picks and shovels that the Rail to pole bond is not disconnected from the trail until an investigation is carried out to find what maybe connected to the bonded pole.

A Rail to Pole Bond is installed under the roadway and then in turn connected to the rail as bond as shown in Figure 1.

A bonded pole supporting an automatic sectionalising switch box equipment (Figure 2) and to break or disconnect the rail to pole bond can result in serious injury.

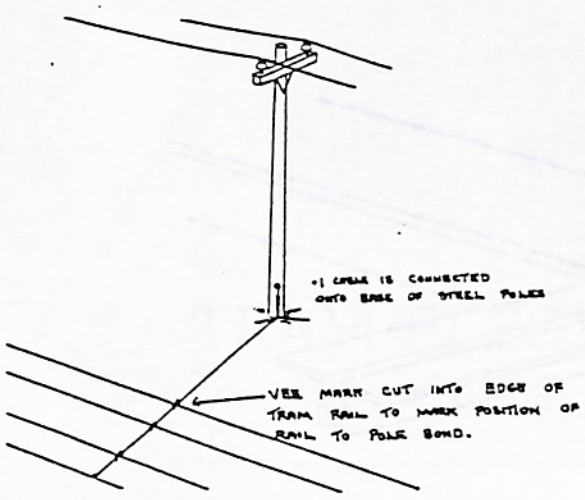


FIGURE 1

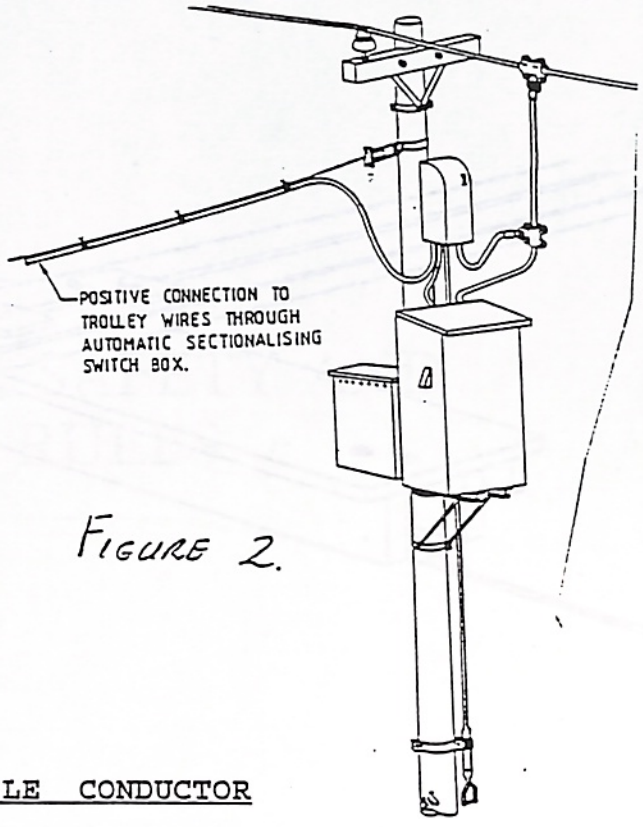
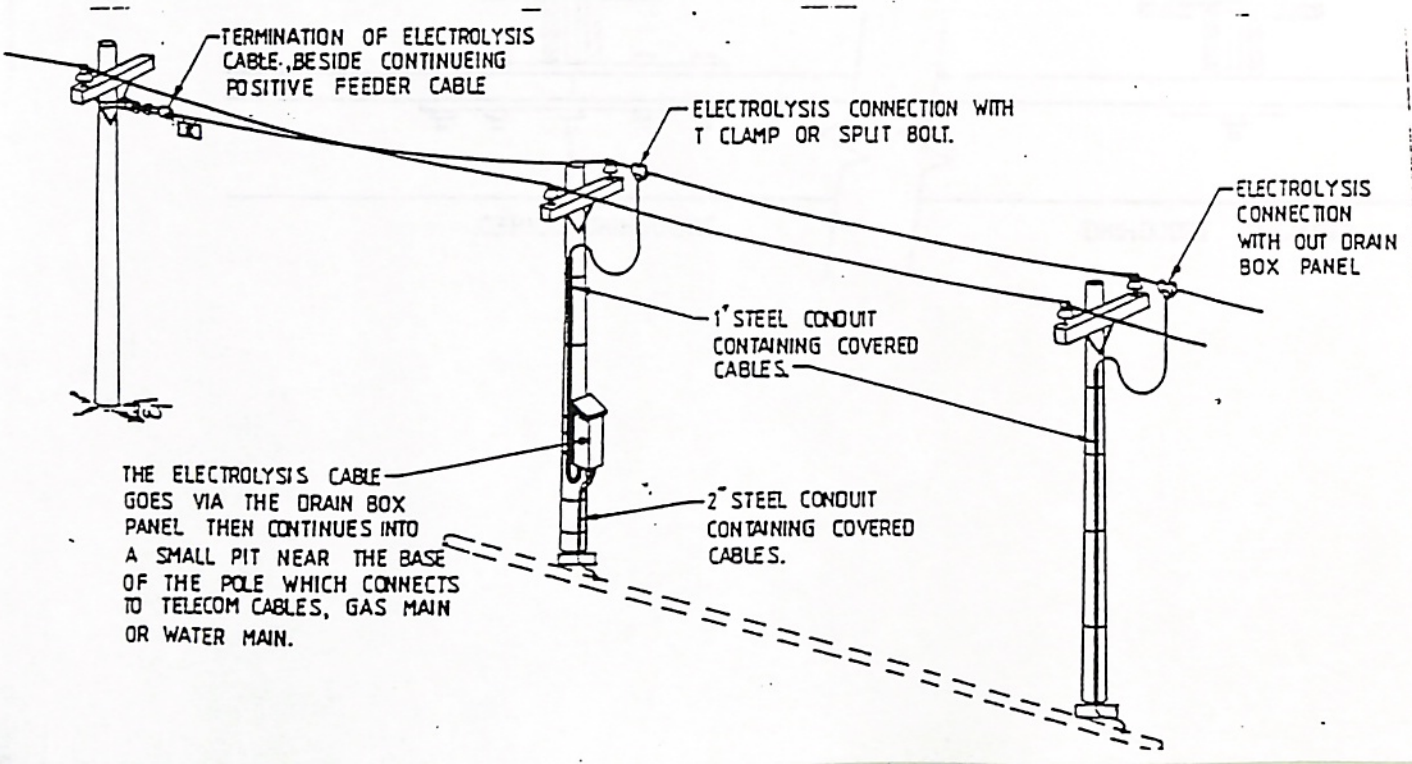
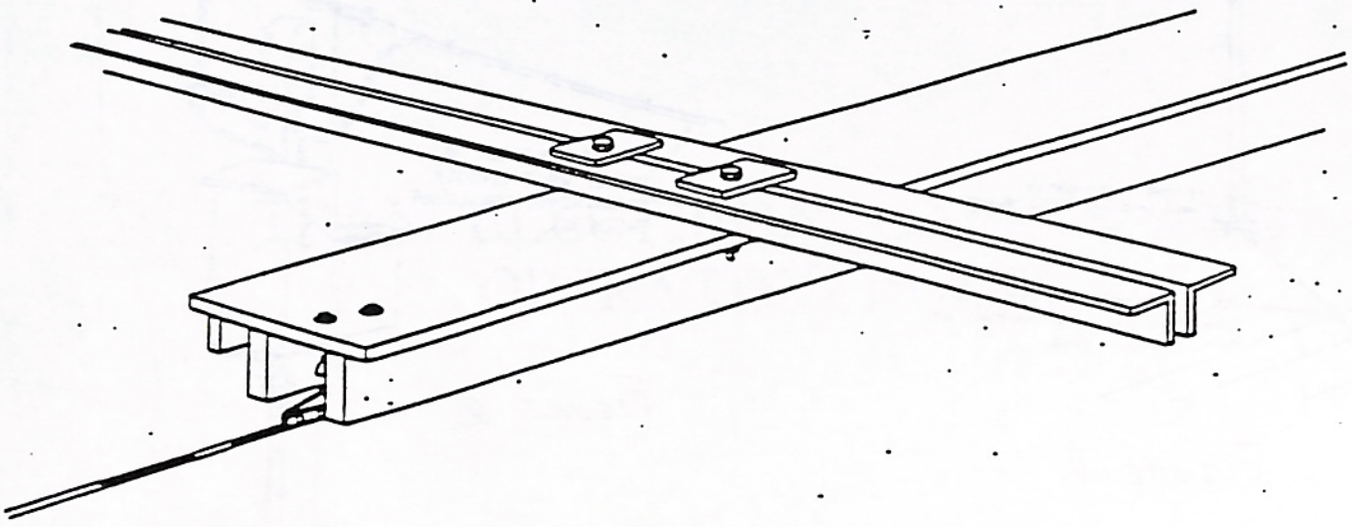
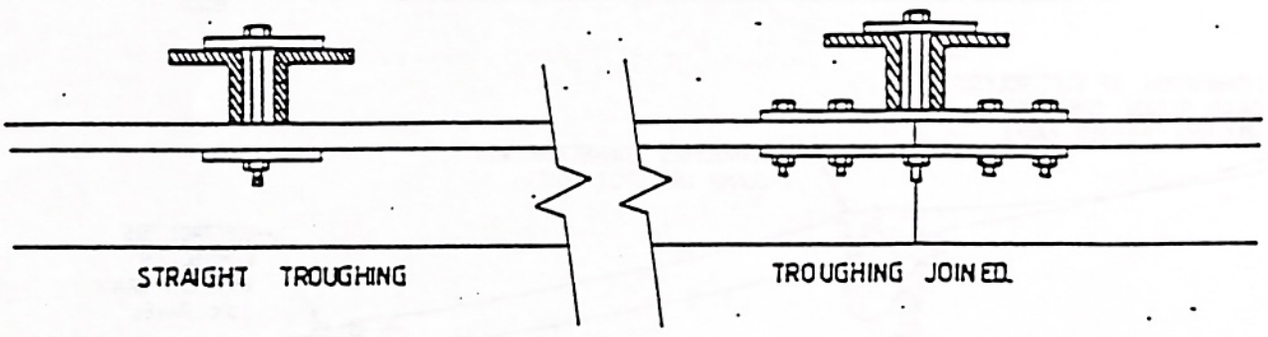


FIGURE 2.

ELECTROLYSIS FEEDER CABLE CONDUCTOR






STRAIGHT TROUGHING
TROUGHING JOINED