PROCEDURE FOR MAKING SPLICES IN PILES

1. Drive lower pile segment.
2. Carry out trial assembly to confirm alignment of pile and splice bars, with the lower section of pile, before upper section.
3. Seal lower edge of pile sleeve against pile.
   Check that pile sleeve, pile ends, holes and dowels are clean and dry.
4. Fill pile sleeve and holes with epoxy resin so that upper pile segment is inserted. Excess resin flows out over the top of the pile sleeve.
5. While curing, hold pile rigidly in position in a true line relative to the lower section of the pile.

GENERAL NOTES

SCALE 1:50
DIMENSIONS ARE IN MILLIMETRES.

THE EPOXY RESIN USED IN PILE SPLICES SHALL BE SUITABLE FOR HIGH IMPACT LOADING.
SPLICED PILES SHALL NOT BE DRIVEN UNTIL THE EPOXY RESIN IN THE PILE SPLICE
HAS REACHED THE STRENGTH OF THE CONCRETE SPECIFIED FOR THE PILE.
PILE SPLICES SHALL BE LOCATED A MINIMUM OF 5 METRES BELOW GROUND LEVEL
AFTER DRIVING.
STEEL PLATE IN PILE SPLICE SLEEVES SHALL CONFORM TO AS/NZS 3678-250.
SPLICE SLEEVES SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH AS 4680
AFTER FABRICATION.
SPLICE BARS SHALL BE DEFORMED STEEL REINFORCING BARS, GRADE D500N TO
AS/NZS 4671.
PILE AT ASSEMBLED SPLICE IS DESIGNED TO WITHSTAND LOADS AT POINT "B" ON
THE LOAD MOMENT DIAGRAMS SHOWN ON ROADS AND MARITIME SERVICES
DRAWING Nos B100 AND B111.

DESIGN PARAMETERS

1. Splice shall be designed for:
   a) Axial loads and 1.5 x the design moment ignoring the contribution of the steel sleeve
   b) Driving stresses
2. "L" may be increased to ensure adequate lap length with reinforcement in the adjacent segment.

SPICE SLEEVE DETAIL

SPICE PLATE SHALL CONTAIN A FULL PENETRATION BUTT WELD FOR THE COMPLETE LENGTH OF THE PLATE
IN ONE LOCATION ONLY.
THE HORIZONTAL FACE OF THE SPLICE SLEEVE SHALL BE GRIND FLUSH.