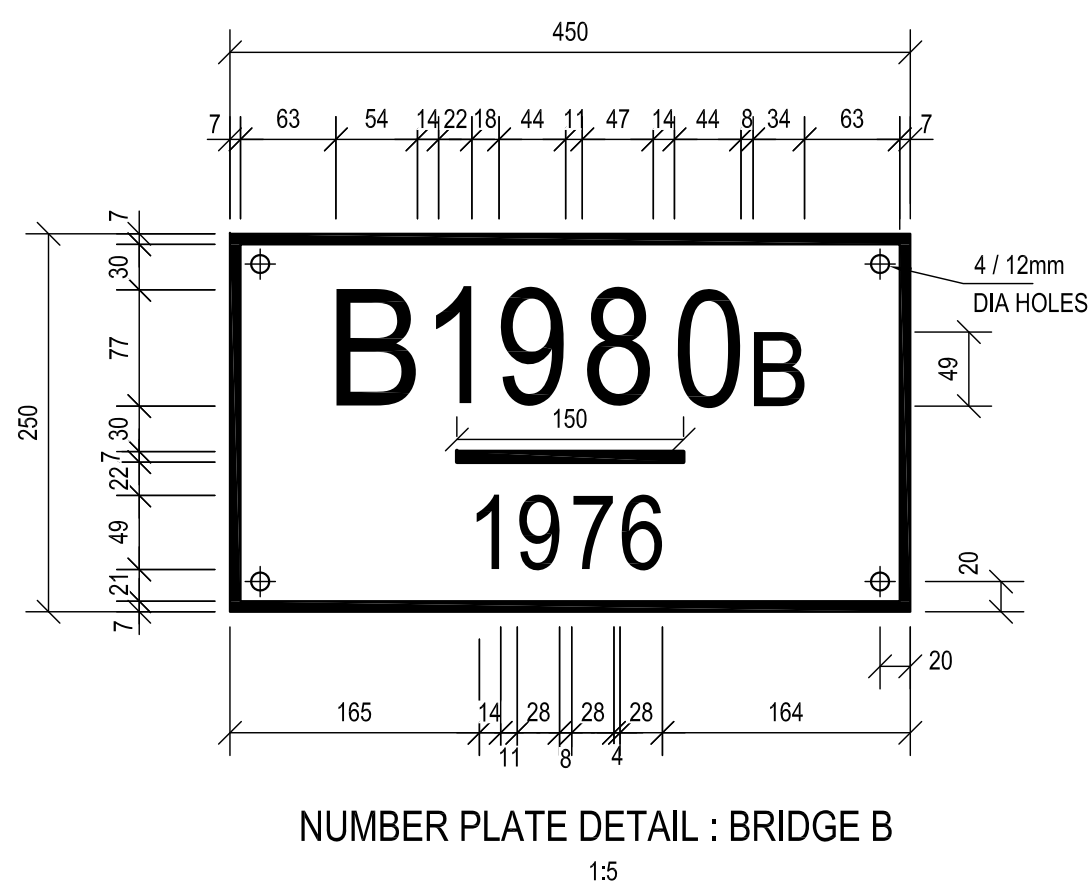
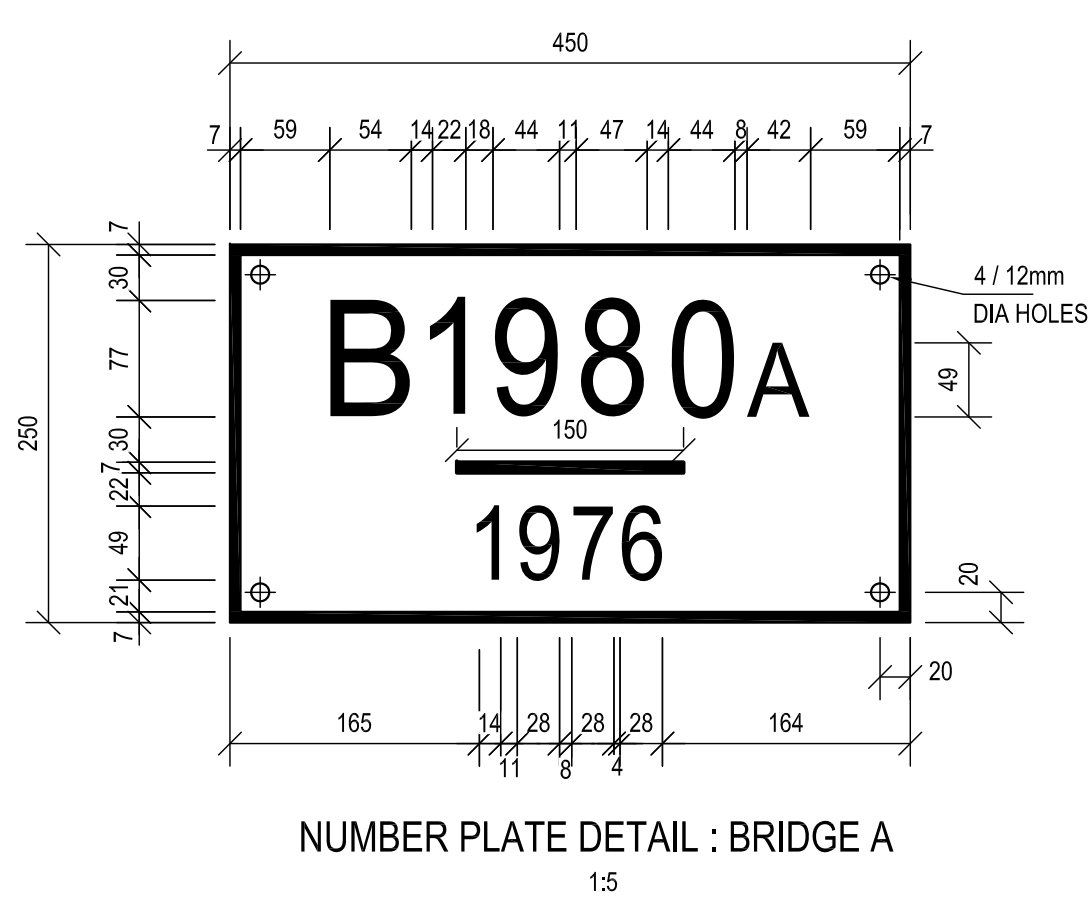
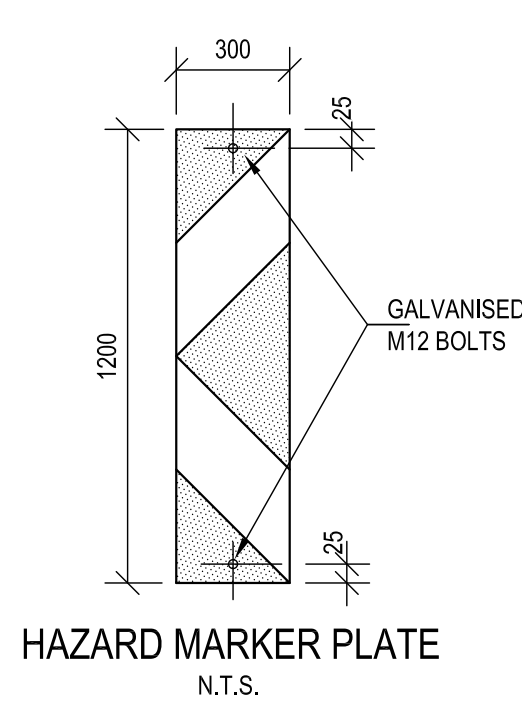
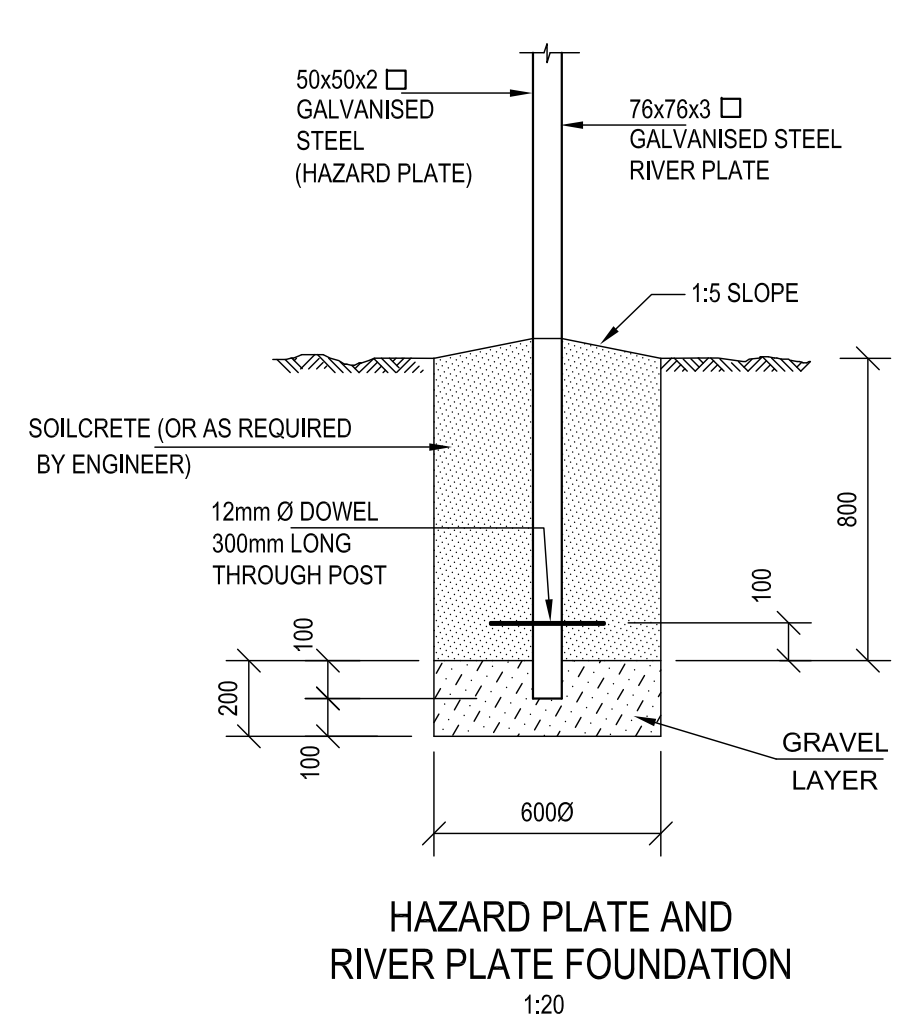
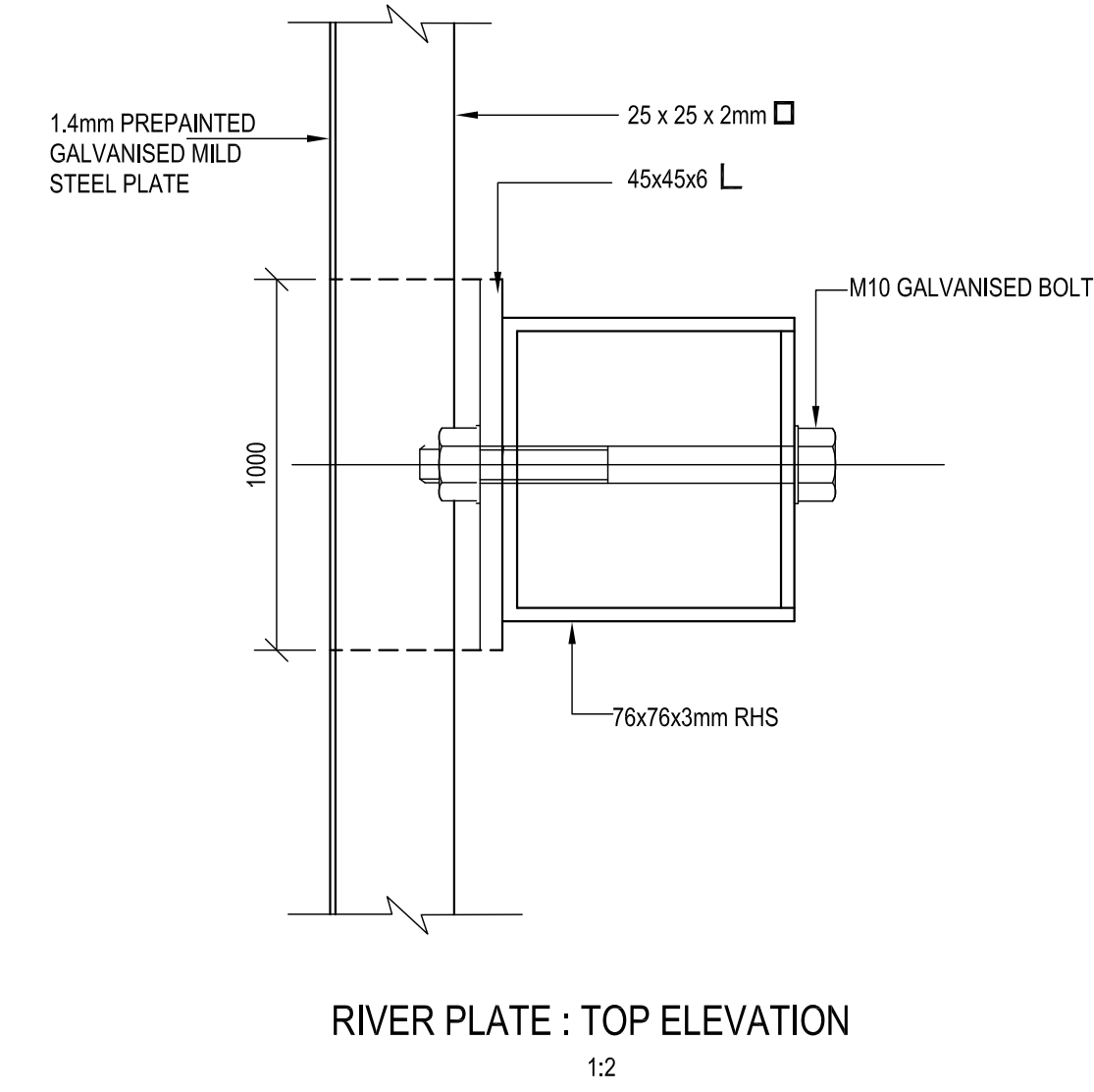
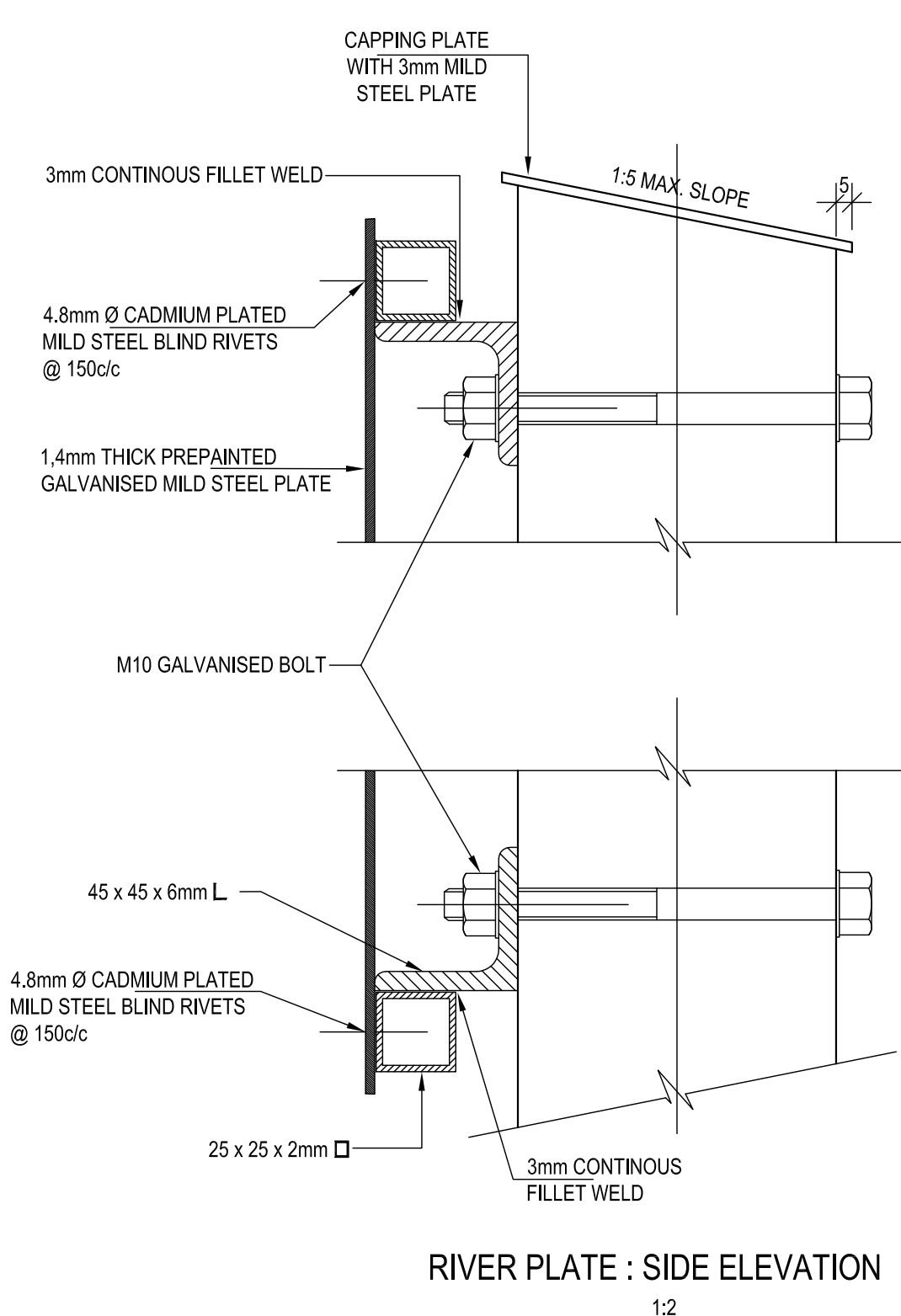
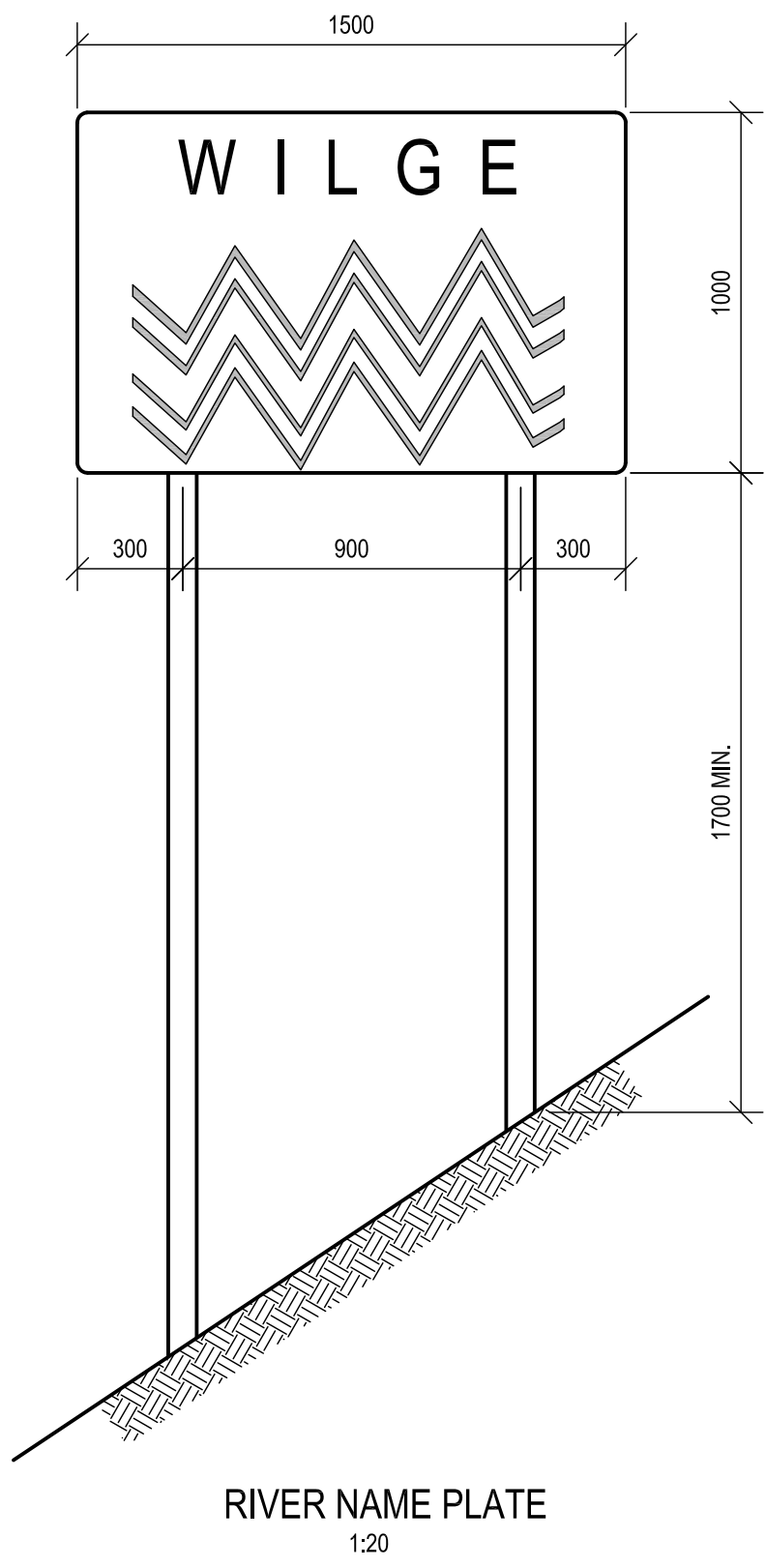


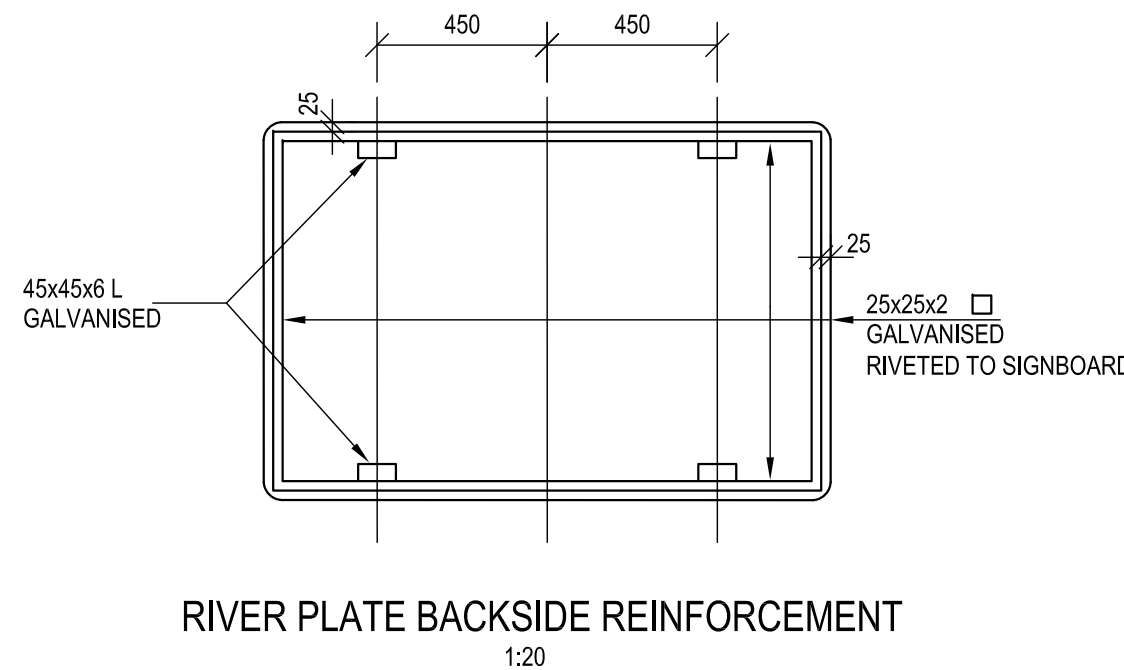
- NUMBER PLATE NOTES
- GENERAL
    - LETTERS AND NUMERALS SHALL BE TYPE 'B' LETTERS TO DIN 1451 PART 2.
    - THE DATE ON THE BRIDGE NUMBERS SHALL BE THE YEAR IN WHICH THE BRIDGE WAS COMPLETED.
    - THE BRIDGE NUMBERS SHALL HAVE A WHITE BACKGROUND WITH BLACK LETTERS, NUMERALS AND BORDERS.
  - MANUFACTURE OF NUMBER PLATES AND TEMPLATES
    - TYPE 1: NUMBER PLATES
      - THE NUMBER PLATES SHALL BE MANUFACTURED FROM NON-METALLIC, UV RESISTANT MATERIAL.
    - TYPE 2: PAINTED NUMBERS
      - THE TEMPLATES FOR THE PAINTED NUMBERS SHALL BE MANUFACTURED FROM VINYL DECAL IN NEGATIVE STENCIL FORM COMPLETE WITH APPLICATION TAPE.
  - CONSTRUCTION
    - TYPE 1: NUMBER PLATES
      - THE BRIDGE NUMBER PLATES SHALL BE POSITIONED AS SHOWN.
      - THE NUMBER PLATE SHALL BE SECURELY FASTENED TO THE INSIDE FACE OF THE SHUTTER BY MEANS OF M10 ANCHOR BOLTS. THE PROTRUDING THREADS OF THE BOLTS SHALL BE COATED WITH AN APPROVED DESODING AGENT. ONCE THE CONCRETE HAS SET AND PRIOR TO STRIPPING THE SHUTTER THE M10 ANCHOR BOLTS SHALL BE REMOVED. THE BOLT HOLES SHALL BE MADE GOOD WITH EPOXY FILLER AND THE PAINT WORK TOUCHED UP.



- REPAIR AND PREVENTATIVE MAINTENANCE
- REPAIR DAMAGED ENDBLOCK (B1980A NORTHBOUND LHS).
  - REPAIR CONCRETE SPALLING DAMAGE ON THE FOLLOWING STRUCTURAL MEMBERS:
    - PARAPET ENDBLOCKS
    - KERBS
    - DECK EDGE BEAMS SUBJECTED TO DRIPPING FROM DRAINAGE HOLES
  - COVER THE FOLLOWING MEMBERS WITH AN APPROVED ANTI-CARBONATION COATING
    - PARAPET ENDBLOCKS
    - KERBS
  - REFURBISH OR REPLACE ONE PARAPET POST AND ONE PARAPET LOWER RAIL.
  - REPLACE MISSING PARAPET STEEL TOP RAIL. THIS WILL REQUIRE A NEW ATTACHMENT BRACKET AGAINST THE ENDBLOCK (B1980B LHS WESTBOUND).
  - INSTALL NEW KERBS AT THE ENDBLOCKS TO ACCOMMODATE NEW EXPANSION JOINT TERMINATIONS
  - REMOVE EXISTING DECK BITUMINOUS SURFACING AND TOP OF CONCRETE NOSINGS BY MILLING.
  - OVERLAY THE DECK WITH A NEW 50 mm BRAC SURFACING LAYER.
  - INSTALL NEW ASPHALTIC PLUG TYPE JOINTS, INCLUDING JOINT TERMINATIONS AND COVER PLATES.
  - SEAL KERB EXPANSION JOINTS WITH AN APPROVED SILICONE SEALANT.
  - PAINT THE EXISTING STEEL PARAPETS, AS FOLLOWS:
    - SURFACE PREPARATION - ABRASIVE BLAST CLEANING
    - PRIMER - INORGANIC ZINC WITH A 75 MICRON DRY FILM THICKNESS
    - 2<sup>ND</sup> COAT - TWO COMPONENT CROSS-LINKED EPOXY WITH A 75 MICRON DRY FILM THICKNESS.
    - FINAL COAT - ALPHATIC ACRYLIC POLYURETHANE WITH A 40 MICRON DRY FILM THICKNESS.
  - ATTACH GUARDRAILS TO ENDBLOCKS WITH M16 CONCRETE ANCHORS. SOME GUARDRAILS NEED TO BE LENGTHENED.
  - EXTEND ALL DECK DRAINAGE HOLES
  - INSTALL NEW BRIDGE NUMBER PLATES
  - INSTALL HAZARD WARNING PLATES
  - INSTALL NEW RIVER NAME PLATES



- RIVER NAME PLATE NOTES:
- STRUCTURAL STEEL SECTIONS SHALL BE MILD STEEL CONFORMING TO THE REQUIREMENTS OF SANS 1431, GRADE 300W. RECTANGULAR HOLLOW SECTIONS MAY BE COLD FORMED OF COMMERCIAL QUALITY STEEL.
  - ALL STEEL SECTIONS INCLUDING BOLTS, WASHERS AND NUTS TO BE HOT-DIPPED GALVANISED IN ACCORDANCE WITH THE REQUIREMENTS OF SANS 121:2000 (ISO 1461:1999).
  - SIGN BACKGROUND : WHITE RETROREFLECTIVE CLASS 1.
  - SIGN SYMBOLS : BLUE RETROREFLECTIVE CLASS 1.



CONSTRUCTION RECORD				DESIGNED BY				CONSULTANT APPROVAL				HEAD OFFICE				NORTHERN REGION				ACCEPTANCE				PROJECT DESCRIPTION				PROJECT NUMBER			
WORKS CONTRACT ENGINEER				NAME				NAME				48 Tambotie Avenue Val de Grace Pretoria 0184				38 Ida Street Menlo Park Pretoria 0081				THIS ACCEPTANCE IS FOR PROCEDURAL AND ADMINISTRATIVE REVIEW PURPOSES ONLY AND DOES NOT ATTRACT LEGAL LIABILITY OR LIABILITY OF ANY KIND FROM WHATSOEVER CAUSE OR HOWSOEVER ARISING				THE REPAIR AND RESURFACING OF NATIONAL ROAD N12 SECTION 20 FROM PETROPORT (km 20.0) TO OGIES (km 42.2)				DRAWING LOCATION DATA			
Name : Prof. Reg. No. : Date :				Prof. Reg. No. : 910252				: JL VENTER Prof. Reg. No. : 20010154				PO Box 415 Pretoria 0001 South Africa Tel: (012) 844 8000				Private Bag X17 Lynwood Ridge 0040 Tel: (012) 6656200								WILGE RIVER BRIDGE B1980 A&B AT KM 23.492 REPAIR GENERAL LAYOUT : SHEET 2				ROUTE			
SANRAL PROJECT MANAGER				CHECKED BY				NAME				SECTION				Drawing km DISTANCE								DRAWING TYPE				START			
Name : Date :				JJ JANSE VAN RENSBURG 350018				NAME				20				23.40								BRIDGE/STRUCTURE No.				N12			
V1 05/10/2021 ORIGINAL VERSION				DRAWN BY				D VENTER				20				23.60								CONSULTANT DRAWING No.				20			
No. DATE REVISION																								STRUCTURES-BRIDGES				B1980 A&B			
JR CONSULT. ENG.																								SANRAL DOCUMENT #				B1980/R2			
																								SCALE : AS SHOWN				SHEET 2 OF 3			
																												VER			
																												V1			

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