

SECTION 4

DRAWING SHEETS AND TITLE BLOCKS

4 DRAWING SHEETS AND TITLE BLOCKS

4.1 SHEET SIZES

The RTA's Bridge Engineering Branch uses three standard sheet sizes for drawings and sketches. These sheet sizes are in agreement with the International Standard Sheet Sizes Series A and are suitable for microfilming.

All drawings and/or sketches produced by the Authority's Bridge Engineering Branch or by Consultants for the Authority or for bridges that will become the property of the Authority shall be on a sheet with sizes being as shown in Table 4.1.

TABLE 4.1 - STANDARD SHEET SIZES

ISO SIZE	OVERALL SIZE	MARGINS		CLEAR DRAWING AREA
		LHS	GENERAL	
A1	841 x 594	56	14	771 x 566
A3	420 x 297	28	7	385 x 283
A4	297 x 210	20	7	283 x 183

Drawings provided for formal approval by the Principal Bridge Engineer or other delegated officer, shall be A1 in size and they shall be printed on tracing paper.

Drawings provided by consultants for formal acceptance by the Principal Bridge Engineer or other delegated officer, shall be A1 in size and they shall be printed on tracing paper.

4.2 TITLE BLOCKS

For work performed by the RTA's Bridge Engineering Branch, cells have been created on the CAD System for each type of sheet used and these symbols come complete with the appropriate size title block, the size of which shall not be altered.

The cell for each sheet type is stored in the Public Cell Library on the CAD System and can be readily accessed.

Title block dimensions and location for A1 size sheets are given in Figure 4.2.1(a).

Title block dimensions and location for A3 size sheets are given in Figure 4.2.1(b).

Title block dimensions and location for A4 size sheets are given in Figure 4.2.1(c).

The information that must be provided in the title block on each sheet is as follows:

- Road type and number eg Main Road No 246, Highway No 10
- Local Government Area name eg Shire of Byron, City of Greater Taree
(Council names shall not be used – see Clause 4.5)
- Title and location of the bridge or structure
- Bridge Name (as appropriate for work on existing bridges)
- Work description (as appropriate for work on existing bridges)
- Plan Registration Number
- RTA Bridge Number (in the format BXXXXXX)
- Sheet number and Issue
- Issue Status

Title blocks to be used on drawings prepared for the RTA by external consultants shall be submitted to the RTA for approval prior to commencement of drafting activities.

4.3 ORDER OF SHEETS IN A SET OF DRAWINGS

The order of the sheets in a set of drawings should follow the logical order of the construction procedure of the structure itself and shall be as follows.

Cover Sheet
General Arrangement
Foundations ie Piles, Pile and / or Footing Layout, Rock Anchors etc
Reinforced Soil Walls (if included in the Bridge Contract)
Substructure ie Abutments Concrete
Reinforcement
Piers Concrete
Reinforcement
Bearings
Superstructure ie Girders, Planks etc
Deck Setting out (if necessary)
Concrete (including accessories)
Reinforcement
Expansion Joints (as required)
Cover Plates (as required)
Barriers (if applicable)
Approach Slabs (if included in the Bridge Contract)
Bar Shapes Diagram
Approach Slabs (if **NOT** included in the Bridge Contract)
Reinforced Soil Walls (if **NOT** included in the Bridge Contract)

The Cover Sheet of any set of drawings shall be numbered 1.

Where there are too many sheets to be listed on the Cover Sheet of a set of drawings, a Contents Sheet shall be provided and the Contents Sheet shall be numbered 2.

Where a Contents Sheet is not required, the General Arrangement sheet shall be numbered 2 and each following sheet shall be numbered in sequence beginning with Sheet No 3, 4, 5 etc. Blocks of numbers for suites of sheets (ie for 100 for abutments, 200 for piers etc) **shall not be used.**

Where drawings are prepared by consultants, drawing numbers shall not contain the consultant's reference numbers in any form.

The sheet number recorded in the title block of each sheet is subject to preceding sheets and is dependant on the number of sheets required to adequately illustrate each element of the structure.

Where more than one sheet is needed to adequately illustrate an element or elements of the structure, the sheet title, followed by Sheet A, Sheet B, Sheet C etc shall be shown both in the title block and in the schedule of drawings on the cover sheet of the set of drawings. **The terms Sheet 1, Sheet 2 etc shall not be used.**

4.4 STANDARD DRAWING SHEETS

Drawings sheets used for all work prepared by the RTA's Bridge Engineering Branch shall conform to the current version of RTA Standard Bridge Drawing No RTAB001.

RTA Standard Bridge Drawing No RTAB001 is shown in Figure 4.4.1

For drawings prepared by the RTA's Bridge Engineering Branch, the contact details given in the Title Block for the approving manager, as well as the approving manager's title shall be amended as required.

For drawings prepared for the RTA by consultants, drawing sheets shall conform to the current version of RTA Standard Bridge Drawing No RTAB041. Where the drawings have been prepared for offices other than Bridge Engineering Branch, the details provided in the title block for approving officers shall be amended as required for each respective office.

RTA Standard Bridge Drawing No RTAB041 is shown in Figure 4.4.2.

Drawing sheets for all work prepared by Consultants for Design and Construct or Public Private Partnership type contracts shall conform to the current version of RTA Standard Bridge Drawing No RTAB100. Space is provided in the title block for the design consultant's name and logo as well as the contractor's name and logo. Reference file details, amendment / revision description, scales etc shall be entered in the respective spaces provided.

RTA Standard Bridge Drawing No RTAB100 is shown in Figure 4.4.3.

In all instances, the "Approved for Use" box and the standard drawing number box located on the drawing sheet, as well as their respective contents, shall be removed when the drawings are incorporated in a set of detail drawings.

4.5 LOCAL GOVERNMENT AREA NAMES

The name of the area of land in which the bridge is located, ie the Local Government Area (LGA) name, shall be in accordance with the information in Government Gazette notices. This information is contained in the LGA Listing prepared by the Land Information and Titles Section of the Real Estate Branch of the RTA and each LGA has been allocated a specific number. Where Local Government Areas are defined as either a shire, city or municipality eg Shire of Sutherland, City of Bankstown, Municipality of Leichhardt, this definition must be included in the LGA name in the drawing title blocks and on drawing set Cover Sheets. Where the Local Government Area is not defined as either a shire, city or municipality, the information included in drawing title blocks shall be as listed in the LGA listing as prepared by the Land Information and Titles Section of the Real Estate Branch of the RTA, followed by the letters LGA (eg Goulburn Mulwaree LGA, Great Lakes LGA).

Where a bridge can be identified as being in two Local Government Areas (ie where the LGA boundary is given as either in the middle or edge of a watercourse) the name of both LGAs shall be included in the title block and on the drawing set Cover Sheet, with the structure being registered under the LGA in which Abutment A of the bridge is located.

No reference shall be made to the name of the council that administers the area of land in which the bridge is located in the Title Blocks or on drawing set Cover Sheets, unless the drawings are being prepared for a Council Contract.

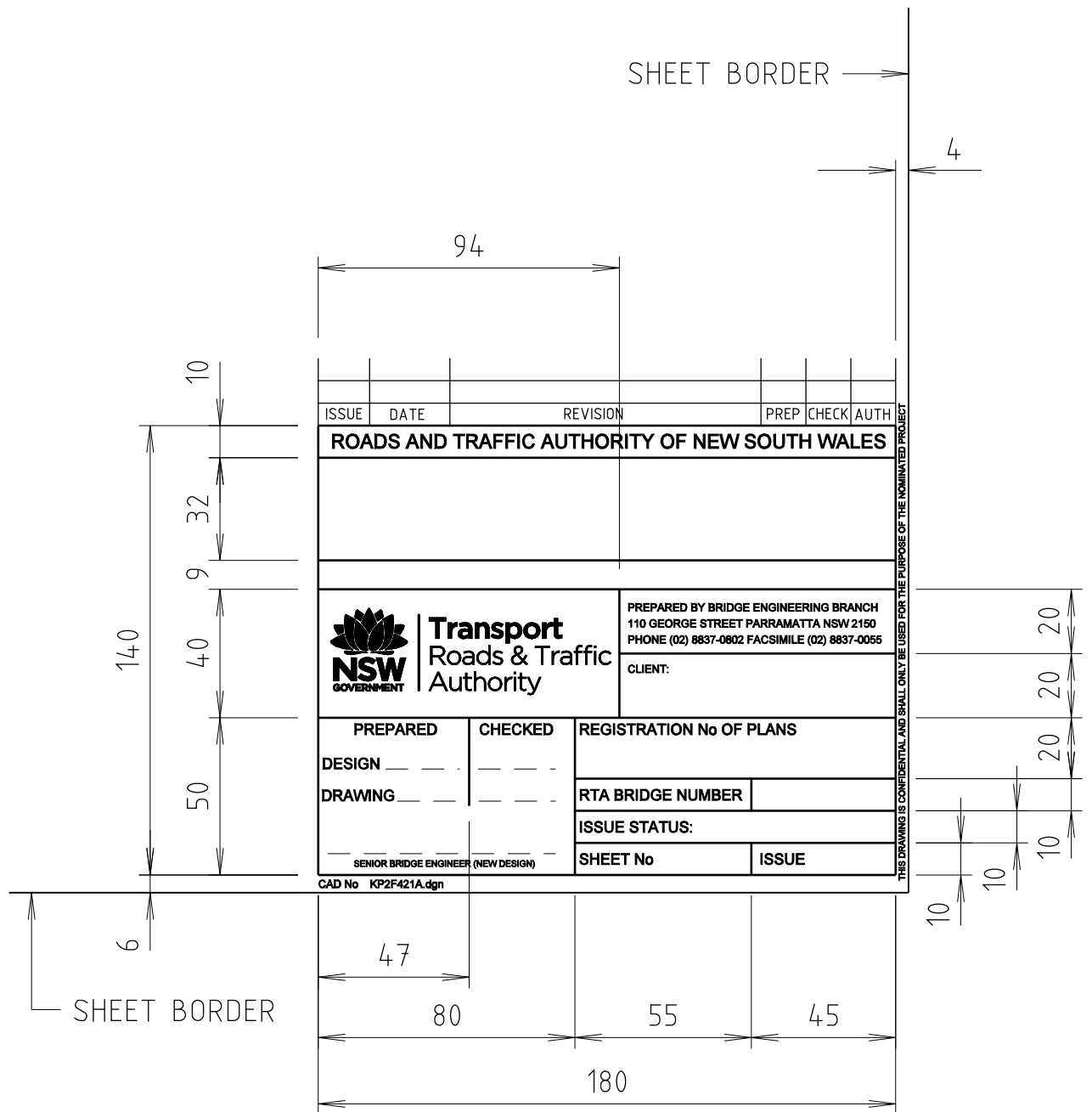
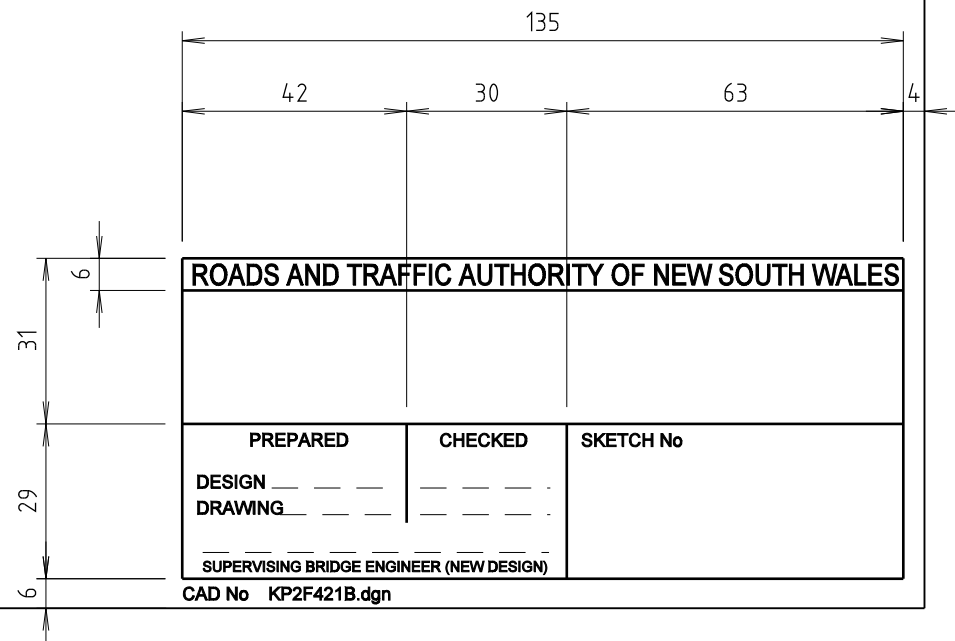


FIGURE 4.2.1 (a)

FIGURE 4.2.1(b)



ALTERNATIVE POSITION
OF TITLE BLOCK →

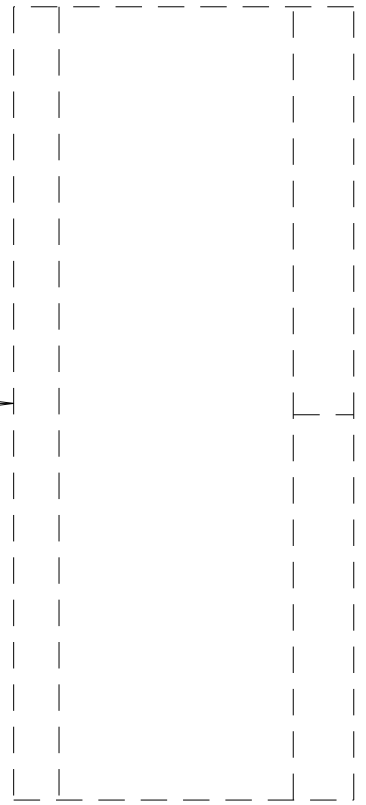


FIGURE 4.2.1(c)

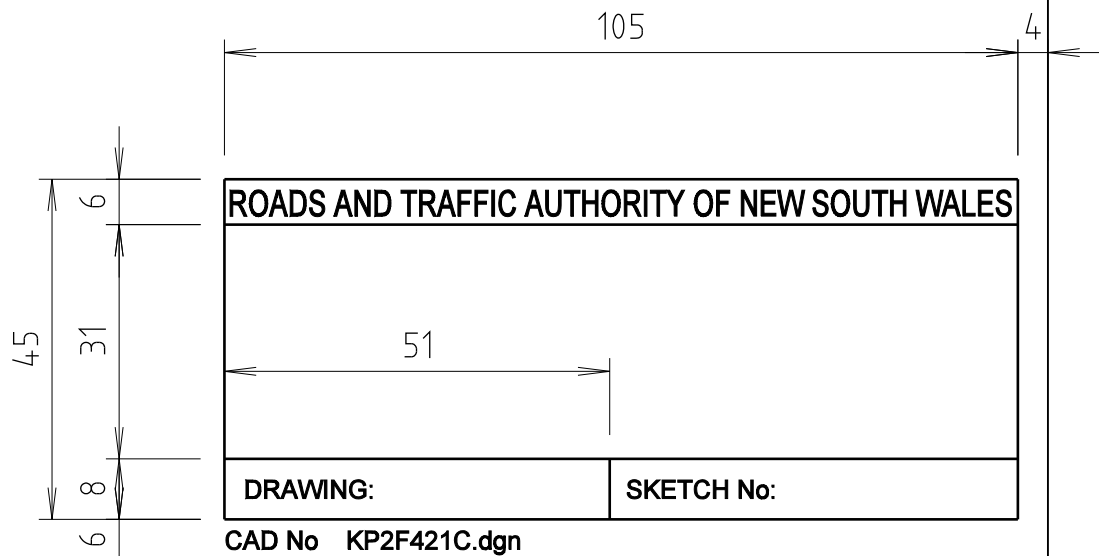

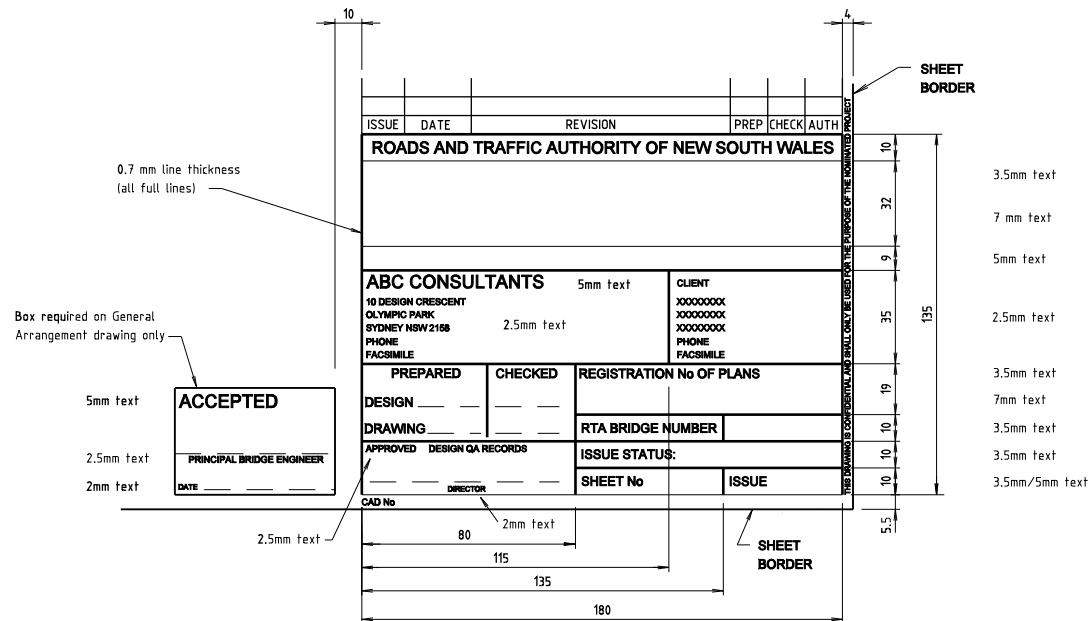


FIGURE 4.4.1

ISSUE	DATE	REVISION	PREP	CHECK	AUTH
ROADS AND TRAFFIC AUTHORITY OF NEW SOUTH WALES					
 Transport Roads & Traffic Authority			PREPARED BY BRIDGE ENGINEERING BRANCH 110 GEORGE STREET PARRAMATTA NSW 2150 PHONE (02) 8837-0802 FACSIMILE (02) 8837-0055 CLIENT:		
PREPARED	CHECKED	REGISTRATION No OF PLANS			
DESIGN					
DRAWING		RTA BRIDGE NUMBER			
		ISSUE STATUS:			
		SHEET No		ISSUE	

THIS DRAWING IS CONFIDENTIAL AND SHALL ONLY BE USED FOR THE PURPOSES OF THE INDICATED PROJECT



TITLE BLOCK FOR CONSULTANT DESIGNS

FIGURE 4.4.2

ISSUE	DATE	REVISION	PREP	CHECK	AUTH
ROADS AND TRAFFIC AUTHORITY OF NEW SOUTH WALES					
CLIENT					
PREPARED	CHECKED	REGISTRATION No OF PLANS			
DESIGN _____	_____				
DRAWING _____	_____	RTA BRIDGE NUMBER			
APPROVED DESIGN QA RECORDS		ISSUE STATUS:			
_____	DIRECTOR _____	SHEET No	ISSUE		
CAD No					

THIS DRAWING IS CONFIDENTIAL AND SHALL ONLY BE USED FOR THE PURPOSE OF THE INSTANTIATED PROJECT

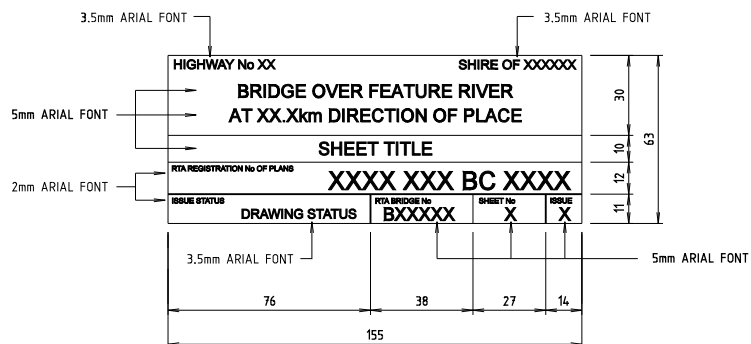


FIGURE 4.4.3

DRAWING FILE LOCATION / NAME					DATUM : MGA / AHD		SCALES ON A1 SIZE DRAWING		DESIGNER	CONTRACTOR	HIGHWAY No XX SHIRE OF XXXXXX
EXTERNAL REFERENCE FILES					REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No	APPROVAL	BRIDGE OVER FEATURE RIVER AT XX.Xkm DIRECTION OF PLACE	
XXXXXXX					01	XX.XX.XX	ISSUED FOR XXXXX	XX	XX	SHEET TITLE	
INSERT REFERENCE FILE DETAILS HERE					INSERT AMENDMENT / REVISION DESCRIPTION HERE					RTA REGISTRATION No OF PLANS XXXX XXX BC XXXX	
					DRAFTING					ISSUE STATUS DRAWING STATUS RTA BRIDGE No SHEET No ISSUE	
					DRAFTING CHECK					X BXXXXX X X	
					DESIGNER					© COPYRIGHT RTA, NSW 2010	
					DESIGN CHECK						
					PROJECT MANAGER						
					PROJECT DIRECTOR						