



# **CARRATHOOL BOAT RAMP**

## **Location, Access and Parking, and Concept Design Plans**

**COVER PAGE**

LOCATION – MURRUMBIDGEE RIVER CARRATHOOL

Lot 7004 DP1024205

COORDINATES -34.449197, 145.416971

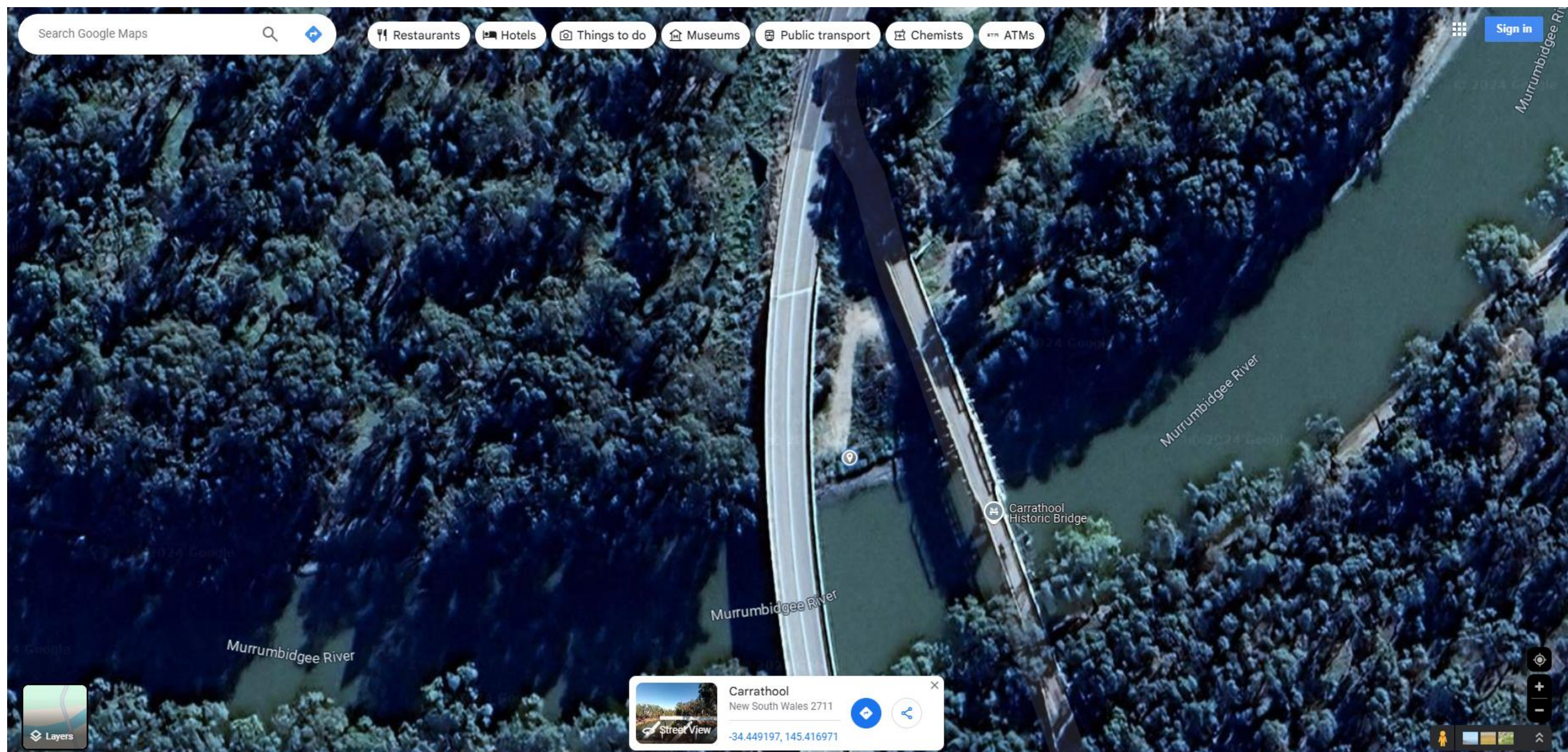
MURRUMBIDGEE RIVER ROAD, RESERVE OWNERSHIP – NEW SOUTH WALES STATE GOVERNMENT





Boat Ramp Location – Within the State Government owned Public Reserve adjacent to Murrumbidgee River Bridge at Carrathool. In between the new Merrylees Bridge and the old timber Allen Truss structure.





Aerial Photograph of the Boat Ramp Location. Between two bridges. Access through the reserve, and out either via the old northern bridge approach, or back under the old bridge.





Access and Parking areas in reserve to be sign posted.





Access to the boat ramp under the old bridge. Suitable overhead clearance for lifted 4WD light vehicles. Boat ramp directional signage to be installed, and low clearance safety signage for access.





Vehicle on boat ramp approach to waterline. The former bridge construction track to be recompacted and trimmed for sealing to ensure no erosion. Concrete matting to be used as boat ramp surface on immediate approach to water for a substantial structure to cater for increased flows and higher river levels.





Reversing alignment, eucalypt tree on right to remain, seasonal vegetation to be slashed and cleared where necessary.





Existing pavement to have gravel added, trimmed and resealed to the lower terrace. (See construction plans for dimensions; 4m past the eucalypt tree)





Water entry; excavation of high points to establish even grade on approach to water. Grade compliant with NSW Boat Ramp Facility Guidelines. (See construction design plan details for particulars)





Entry and exit route under old bridge, exit queuing traffic dependent.





Exiting straight ahead over the old bridge abutment or returning along entry route available.





Exiting over the old bridge abutment, to be slashed re-graveled and sealed.





Exiting avenue over the old bridge abutment to be resealed.





Approaching the boatramp from Carrathool Road, queuing area before going under the old bridge. Boat Ramp Guidance signage to be added also.





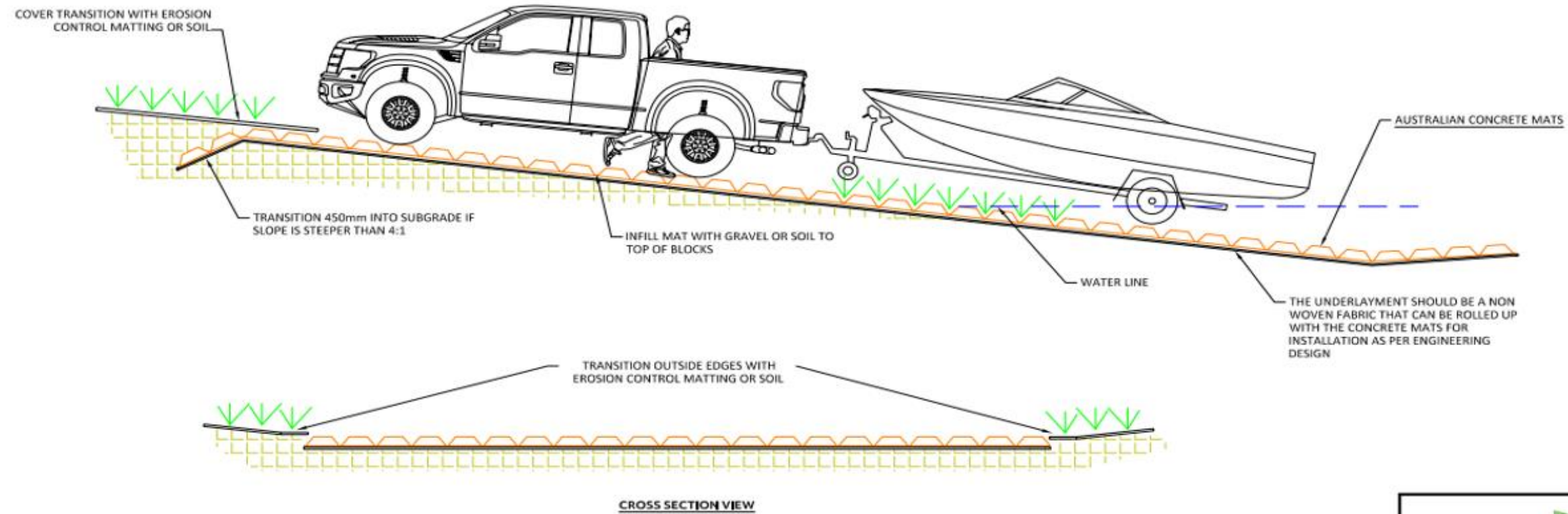
Parking areas within the reserve, away from aged eucalypt trees available. Parking signs installed.





Exiting from the reserve on established trails, onto Carrathool Road.





#### CONSTRUCTION NOTES:

1. AN ENGINEER MUST DESIGN AND/OR SIGN OFF ON THE DESIGN AND ONSITE INSTALLATION.
2. GRADE THE SITES SO THAT WATER WILL NOT FLOW ABOVE, BELOW, OR AROUND THE OUTSIDE OF THE AREA PROTECTED WITH AUSTRALIAN CONCRETE MATS. ALL SUBGRADE SURFACES PREPARED FOR PLACEMENT OF MATS SHALL BE SMOOTH AND FREE OF ALL ROCKS, STICKS, ROOTS, OTHER PROTRUSIONS, OR DEBRIS OF ANY KIND.
3. APPLY SITE SPECIFIC SEED, INCLUDING NATIVE GRASSES DIRECTLY TO THE PREPARED SOIL PRIOR TO AUSTRALIAN CONCRETE MAT INSTALLATION.
4. AUSTRALIAN CONCRETE MAT ROLLS ARE AVAILABLE IN WIDTHS OF 2400mm WIDE.
  - (a) TO ACHIEVE WIDER WIDTHS, INSTALL CONCRETE MATS ADJACENT TO ONE ANOTHER. INSTALL ADDITIONAL UNDERLAYMENT GEOGRID UNDER ALL ADJOINING MATS. A MINIMUM OF 450mm OF UNDERLAYMENT SHALL EXTEND UNDER EACH SIDE OF THE MAT AND DIRECTLY AGAINST THE SUBGRADE.
  - (b) INSTALL 450mm REBAR U-ANCHORS OR STAINLESS-STEEL ZIP TIES IN 900mm INCREMENTS THE LENGTH OF THE LONGITUDINAL SEAM. (OR AS DESIGNED BY AN ENGINEER FOR THE CONDITIONS)
5. AT THE BEGINNING OF THE AUSTRALIAN CONCRETE MATS, TRANSITION THE INITIAL LEADING EDGE PROPERLY WITH EROSION MATTING OR SOD. IF EXPOSED TO CONCENTRATED FLOWS EMBED 450mm VERTICALLY INTO THE SUB GRADE TO SERVE AS AN ANCHOR TRENCH. THE TRENCH SHALL BE FILLED AND COMPACTED WITH SUITABLE FILL OR OTHER (AS SPECIFIED BY EOR).
6. FOR ADDITIONAL SECTIONS OF MAT, OVERLAP THE DOWNSTREAM SECTION 450mm WITH UPSTREAM SECTION OF MAT. PRIOR TO INSTALLING OVERLAP, FLIP UPSTREAM MAT BACK 600mm. EXCAVATE 60mm OF SOIL 450mm FROM END OF UPSTREAM MAT. DOWNSTREAM SECTION IS LAID IN THE SHALLOW TRENCH. LIGHTLY SPREAD TOPSOIL, SEED AND FERTILIZER OVER INITIAL EDGE. FLIP END OF UPSTREAM MAT OVER THE SOIL COVERED INITIAL LEADING EDGE OF DOWNSTREAM MAT.
7. INSTALL 450mm U-ANCHORS IN 900mm INCREMENTS ACROSS THE OVERLAP. INSTALL ANCHORS DIRECTLY BEHIND BLOCKS. "U" ANCHORS CONSIST OF 10mm REBAR "U" ANCHOR WITH 450mm LEGS.
8. AT THE END OF THE ARMORED CHANNEL, EMBED THE MAT 450mm IN A TERMINATION TRENCH. FILL AND COMPACT TERMINATION TRENCH WITH SOIL (DETERMINED BY ENGINEER).



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Project Title:

**BOAT RAMP**

Sheet Title:

**INSTALLATION OF AUSTRALIAN  
CONCRETE MATS**

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Paper: A3 Scale: NTS Date: 2019/11/15

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**CARRATHOOL SHIRE COUNCIL – CARRATHOOL BOAT RAMP INSTALLATION**

**- SIMILAR CONCEPT PHOTOGRAPHS -**

- Planned installation on the Murrumbidgee River, at Carrathool, NSW
- Photographs from Lower Portland, NSW installation.







Lot 7004 DP1024205 NSW STATE GOVERNMENT OWNERSHIP, pre-new bridge aerial photograph. Old bridge no longer used.