

# BATHURST STORMWATER RECYCLING

## BATHURST , NSW

### BATHURST REGIONAL COUNCIL

## STRUCTURAL DESIGN- BRIDGES- PIPE SUPPORTS

**GENERAL NOTES:**

- G1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND OTHER CONSULTANTS' DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ALL DISCREPANCIES SHALL BE REFERRED TO THE ARCHITECT FOR DECISION BEFORE PROCEEDING WITH THE WORK.
- G2. ANY DISCREPANCIES WITHIN THE STRUCTURAL DRAWINGS SHALL BE REFERRED TO THE ENGINEER FOR DECISION. DIMENSIONS SHALL NOT BE OBTAINED BY SCALING THE STRUCTURAL DRAWINGS.
- G3. SETTING OUT DIMENSIONS SHOWN ON THE DRAWINGS SHALL BE VERIFIED BY THE BUILDER.
- G4. DURING CONSTRUCTION THE STRUCTURE SHALL BE MAINTAINED IN A STABLE CONDITION & NO PART SHALL BE OVERSTRESSED. TEMPORARY BRACING SHALL BE PROVIDED BY THE BUILDER AS REQUIRED.
- G5. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE SAA CODES AND THE BY-LAWS AND ORDINANCES OF THE RELEVANT BUILDING AUTHORITY.
- G6. UNLESS NOTED OTHERWISE, ALL LEVELS ARE IN METRES AND ALL DIMENSIONS ARE IN MILLIMETRES.
- G7. CONTRACTOR SHALL CHECK LOCATION OF EXISTING SERVICES PRIOR TO COMMENCEMENT OF ANY WORK AND ACCEPT FULL RESPONSIBILITY FOR THE COST OF REPAIRS AND CONSEQUENCES OF ANY DAMAGE WHICH MAY OCCUR TO THESE SERVICES AS A RESULT OF CONSTRUCTION WORKS.

**STEELWORK NOTES:**

- S1. ALL WORKMANSHIP & MATERIALS SHALL BE IN ACCORDANCE WITH AS 4100 AND AS 1554 EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
- S2. ALL STEELWORK SHALL BE IN ACCORDANCE (UNO) WITH:  
AS 3679.1 FOR UB, UC, PFC, EA AND UA SECTIONS  
AS 1163 (GRADE 350) FOR RHS, CHS AND SHS SECTIONS  
AS 1397 FOR COLD FORMED STEEL PURLINS & GIRTS
- S3. THE BUILDER SHALL PREPARE WORKSHOP DRAWINGS AND SHALL SUBMIT TWO COPIES OF EACH DRAWING FOR APPROVAL. FABRICATION SHALL NOT COMMENCE UNTIL APPROVAL HAS BEEN RECEIVED. APPROVAL OF DRAWINGS DOES NOT INCLUDE DIMENSIONS.
- S4. ALL COMMERCIAL GRADE BOLTS, NUTS AND WASHERS SHALL COMPLY WITH AS 1111, AS 1112 AND AS 1237 RESPECTIVELY.
- S5. WHERE NOT SPECIFIED, ALL BOLTS ARE TO BE 20 DIAMETER HIGH STRENGTH, OF GRADE 8.8 SNUG TIGHT (M20-8.8/S) - EXCEPT PURLIN AND H.D. BOLTS. ALL BOLTS ARE DESIGNATED BY THE NUMBER, DIAMETER, GRADE AND TIGHTENING PROCEDURE. FOR EXAMPLE 4M16-4.6/S MEANS FOUR M16 DIAMETER COMMERCIAL GRADE BOLTS, SNUG TIGHT.
- S6. ALL CONNECTIONS TO HAVE 2 BOLTS MIN. PER CONNECTION WITH GUSSET PLATES 10 THICK (UNO).
- S7. ALL WELDING DESIGN & FABRICATION SHALL CONFORM TO AS 1554 (UNO). ALL WELDS TO BE 6mm CONTINUOUS FILLET FROM E48XX ELECTRODES. ALL STRUCTURAL WELDS SHALL BE CATEGORY SP (UNO). GENERAL PURPOSE WELDS SHALL BE NOTED 'GP'. BUTT WELDS WHERE INDICATED IN THE DRAWINGS ARE TO BE COMPLETE PENETRATION BUTT WELDS AS DEFINED IN AS 1554. ALL WELDING SYMBOLS TO AS 1101 PART 3.
- S8. STRUCTURAL STEELWORK SHALL HAVE THE SURFACE TREATMENT IN ACCORDANCE WITH AS.NZ5.2512 AND SPECIFICATION.

ELEMENT	SURFACE PREPARATION	PRIME COAT	FINISH SECOND COAT
INTERNAL STEELWORK	WIRE BRUSH	ZINC PHOSPHATE PRIMER	OF ZINC PHOSPHATE PRIMER
EXTERNAL EXPOSED STEELWORK	HOT DIPPED GALV. DEGREASE WASH AND DRY		

- S9. NOTE: CONCRETE ENCASED STEELWORK SHALL BE LEFT UNPAINTED. THE BUILDER SHALL PROVIDE ALL CLEATS AND DRILL ALL HOLES NECESSARY FOR FIXING STEEL TO STEEL AND TIMBER TO STEEL WHETHER OR NOT DETAILED IN THE DRAWINGS.
- S10. ALL THE REQUIREMENTS OF THE STRUCTURAL STEEL SPECIFICATION SHALL APPLY (UNO).
- S11. THE BUILDER IS TO BE PRESENT WHEN ALL HOLDING DOWN BOLTS ARE INSTALLED TO ENSURE THEY ARE NOT DISPLACED DURING CONCRETE PLACEMENT.
- S12. THE BUILDER IS TO MAKE GOOD AND OR REPAIR ALL DAMAGED SURFACES DURING PERFORMANCE OF THE WORK.
- S13. UNLESS SHOWN ON THE DRAWINGS THE ROOF STRUCTURE HAS BEEN DESIGNED FOR NORMAL ROOF LOADS ONLY AND DOES NOT ALLOW FOR ANY EXTRANEIOUS LOADS.

**DRAFTING ABBREVIATIONS:**

- NGL NATURAL GROUND LEVEL
- FGL FINISHED GROUND LEVEL
- FFL FINISHED FLOOR LEVEL
- UNO UNLESS NOTED OTHERWISE
- VB VAPOUR BARRIER
- ZPEF ZIPPED POLYETHYLENE FOAM
- BCJ BRICK CONTROL JOINT
- C/C CENTRES
- C/S COURSES
- REINF REINFORCEMENT
- HORIZ HORIZONTAL
- VERT VERTICAL
- B/W BOTHWAYS
- KJ KEYED JOINT
- DJ DOWELLED JOINT
- VJ VERTICAL JOINT
- NTS NOT TO SCALE
- TYP TYPICAL
- BWK BRICKWORK
- BLK BLOCKWORK
- CONC CONCRETE
- CJ CONTROL JOINT
- CFW CONTINUOUS FILLET WELD

### SCHEDULE OF DRAWINGS

DRAWING	TITLE
S01	TITLE SHEET & NOTES
S02	GORDON EDGELL BRIDGE PLAN
S03	DENISON BRIDGE PLAN
S04	PIPEWORK SUPPORT DETAILS

FOR REVIEW

DATE	REV	DESCRIPTION	GT	DV
09/09/2024	A	ISSUED		
			REC	APP



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PROJECT MANAGER DV  
  
  
  
PHILIP H. SEARL

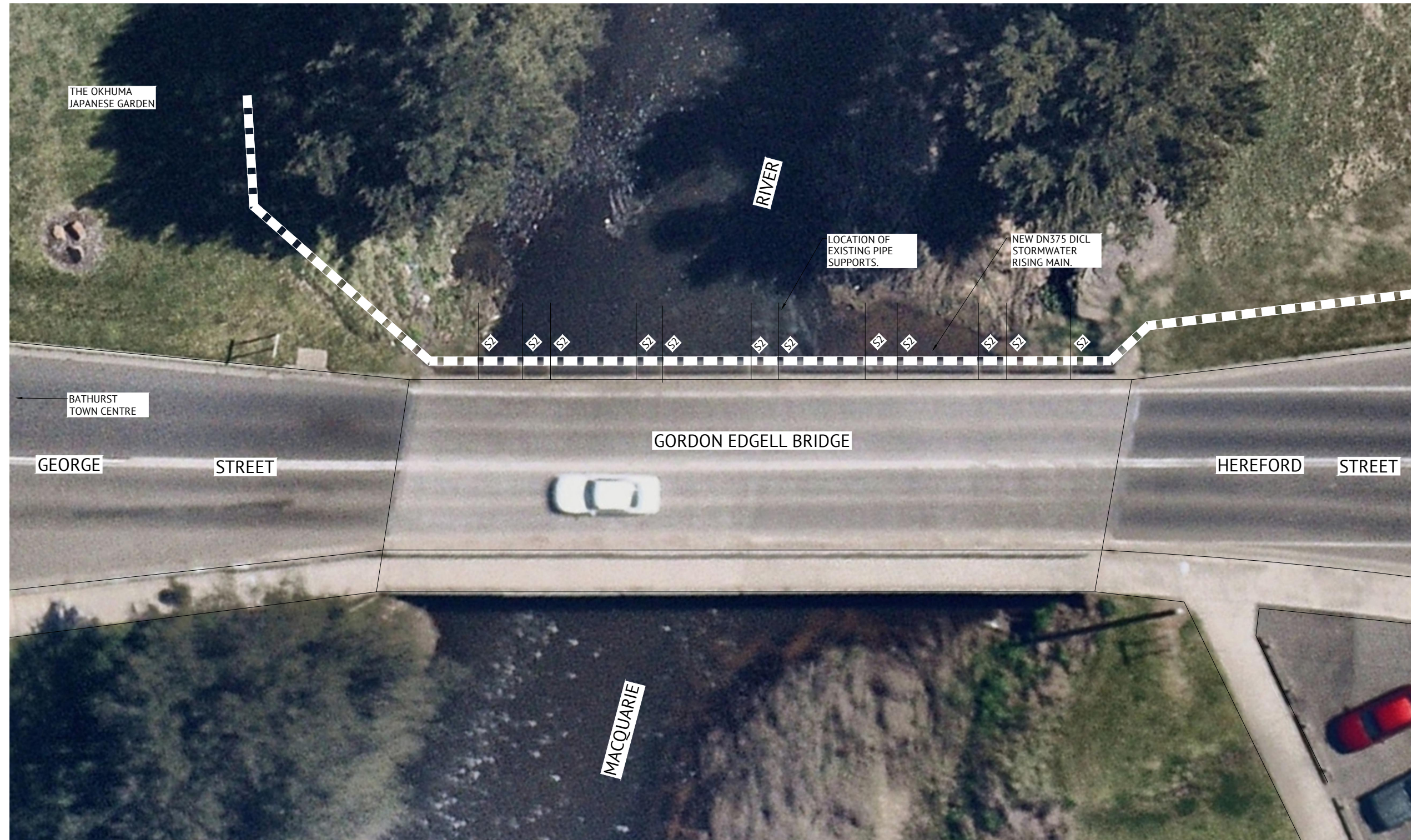
ORIGINAL SHEET SIZE A1

CLIENT **BATHURST REGIONAL COUNCIL**  
PROJECT **STORMWATER PROJECT**  
LOCATION **BATHURST, NSW**  
SHEET TITLE **TITLE SHEET & NOTES**

JOB CODE  
**220224-100**

SHEET NUMBER	REV
<b>S01</b>	<b>A</b>





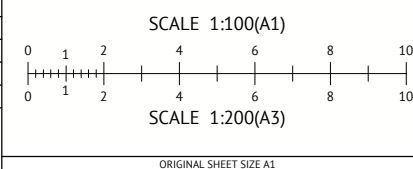
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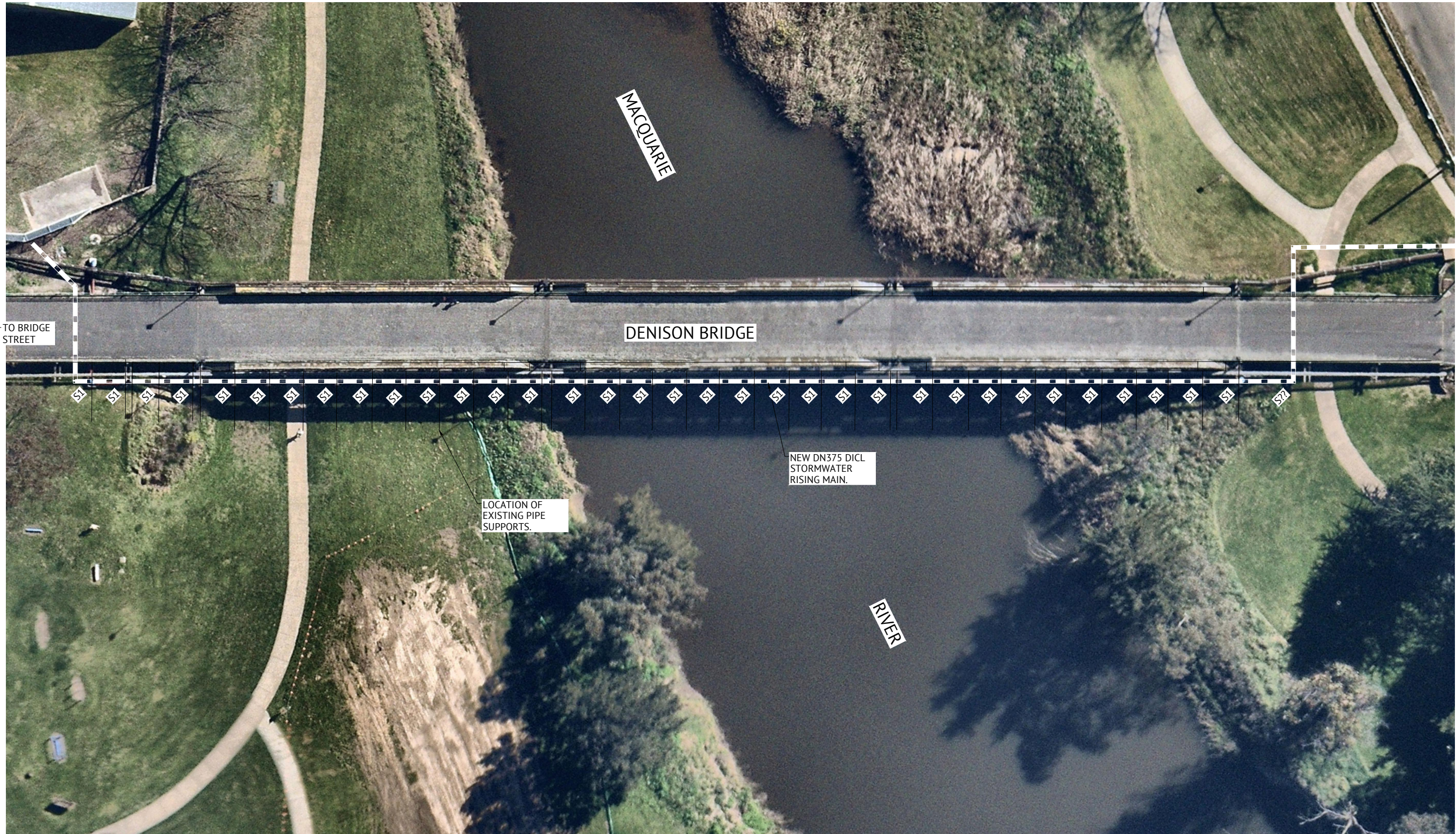
PROJECT MANAGER	DV
PHILIP H. SEARL	



CLIENT	BATHURST REGIONAL COUNCIL
PROJECT	STORMWATER PROJECT
LOCATION	BATHURST, NSW
SHEET TITLE	GORDON EDGELL BRIDGE PLAN

JOB CODE	220224-100	
SHEET NUMBER	REV	
S02	A	





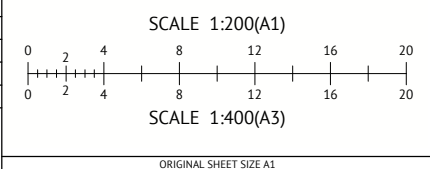
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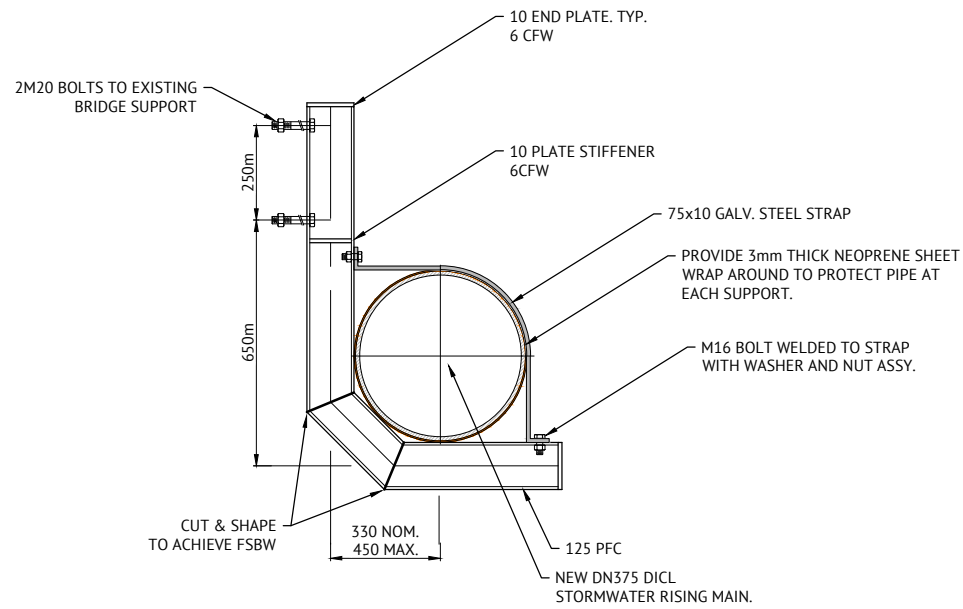
PROJECT MANAGER	DV



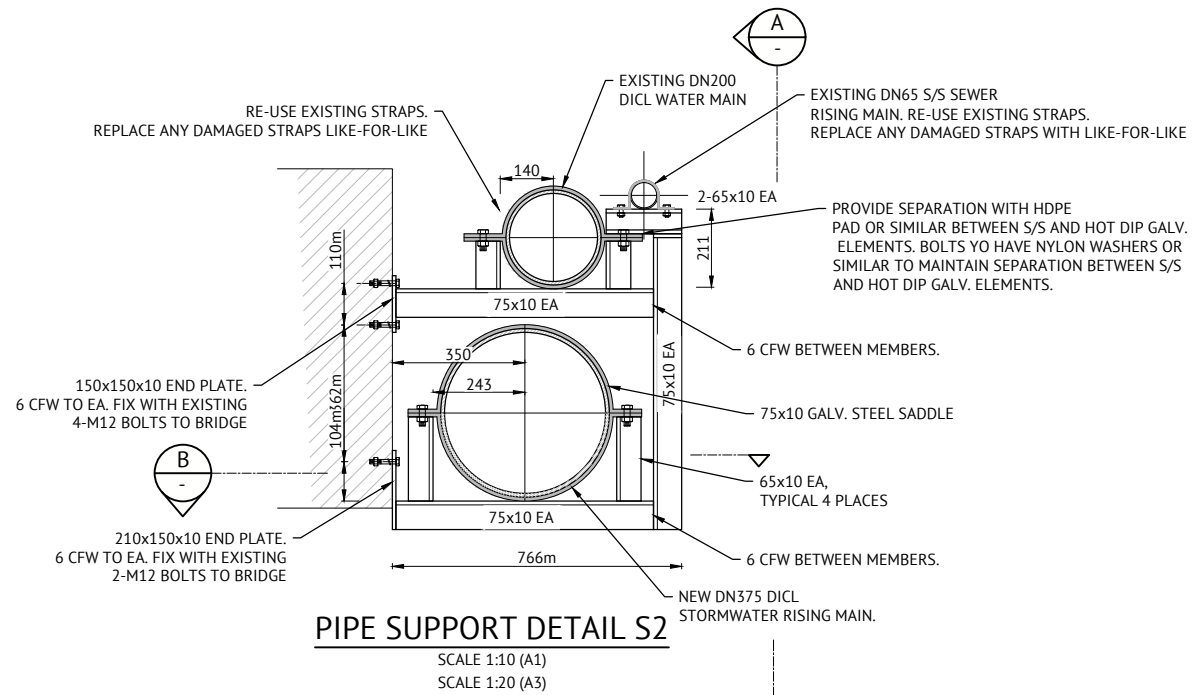
CLIENT	BATHURST REGIONAL COUNCIL
PROJECT	STORMWATER PROJECT
LOCATION	BATHURST, NSW
SHEET TITLE	DENISON BRIDGE PLAN

JOB CODE	220224-100
SHEET NUMBER	S03
REV	A

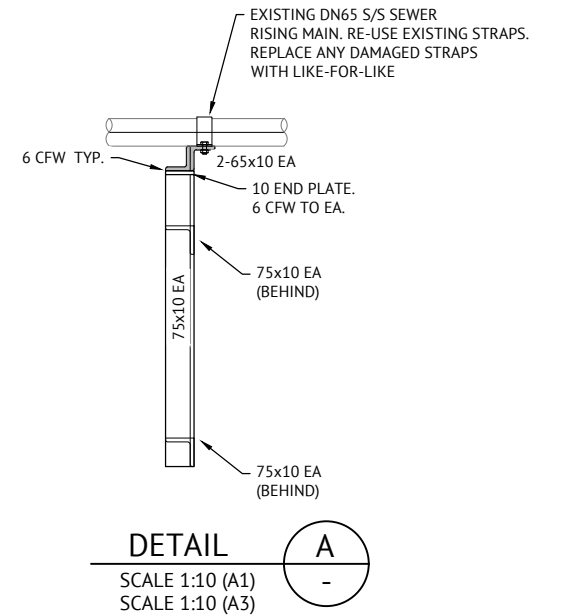




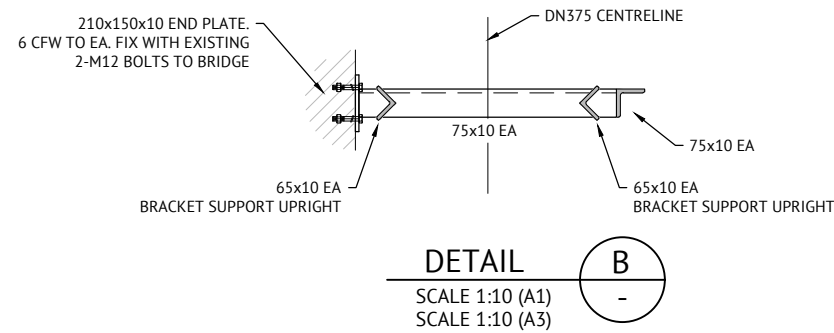
**PIPE SUPPORT DETAIL S1**  
SCALE 1:10 (A1)  
SCALE 1:20 (A3)



**PIPE SUPPORT DETAIL S2**  
SCALE 1:10 (A1)  
SCALE 1:20 (A3)



**DETAIL A**  
SCALE 1:10 (A1)  
SCALE 1:10 (A3)



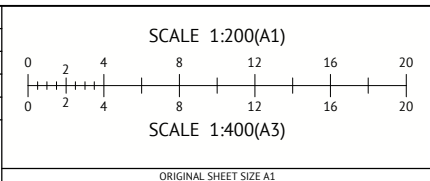
**DETAIL B**  
SCALE 1:10 (A1)  
SCALE 1:10 (A3)

**FOR REVIEW**

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SHEET TITLE	PIPEWORK SUPPORT DETAILS

JOB CODE	220224-100
SHEET NUMBER	S04
REV	A