



ENGINEERS  
MANAGERS  
SCIENTISTS

WESTERN AUSTRALIA RETURN  
RECYCLE RENEW LIMITED  
FABRICATED STEEL BOX / SHIPPING CONTAINER

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PROJECT	FABRICATED STEEL BOX / SHIPPING CONTAINER	STATUS	ISSUED FOR CLIENT REVIEW
CLIENT	WESTERN AUSTRALIA RETURN RECYCLE RENEW LIMITED	SCALE	N/A
		PROJECT No.	1.23.7092-S-000

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SHEET SIZE A3

**STEEL NOTES**

1. (a) ALL FABRICATION OF STEEL WORK AND TOLERANCES SHALL BE IN ACCORDANCE WITH AS/NZS 5131 - STRUCTURAL STEELWORK - FABRICATION AND ERECTION. STEELWORK SHALL BE FABRICATED BY FABRICATORS CERTIFIED UNDER THE ASI 'NATIONAL STRUCTURAL STEELWORK COMPLIANCE SCHEME' (NSSCS).
- (b) TOLERANCES CLASS FOR FUNCTIONAL TOLERANCES SHALL BE 'CLASS 1' U.N.O.
- (c) ALL STRUCTURAL STEEL MATERIAL SHALL CONFORM TO THE FOLLOWING:

COMPONENT	CONFORM TO STANDARD	MINIMUM GRADE
HOT ROLLED STEEL SECTION	AS/NZS 3679.1	300
PLATE	AS/NZS 3678	250
FLATS	AS/NZS 1594	300
HOLLOW SECTIONS: CIRCULAR (CHS) SQUARE (SHS) RECTANGULAR (RHS)	AS/NZS 1163	C350L0 C350L0 C350L0
WELDED BEAMS & COLUMNS	AS/NZS 3679.2	300
SHEAR STUDS (COMPOSITE SLABS)	AS/NZS 1554.2	380
QUENCH & TEMPERED PLATE	AS 3597	690
PURLINS & GIRTS	AS 1397	450

- (d) ALL COLD FORMED SECTIONS OTHER THAN THOSE COMPLYING TO AS 1163, TO BE MANUFACTURED FROM CONTINUOUS GALVANIZED SHEET STEEL (GSS) CONFORMING TO AS 1397 AND CONFORM TO THE REQUIREMENTS OF AS/NZS 5131.
- (e) DOCUMENTATION SUPPLIED WITH MATERIALS AND COMPONENTS SHALL CONFORM TO THE REQUIREMENTS OF AS/NZS 5131.
- (f) ALL STRUCTURAL STEELWORK SHALL BE SOURCED FROM MILLS WITH RELEVANT JAS ANZ ACCREDITED THIRD-PARTY CERTIFICATION SCHEME SUCH AS ACRS SCHEME. ALTERNATIVE SOURCING OF THIRD-PARTY CERTIFIED STRUCTURAL STEEL SHALL BE SUBMITTED FOR REVIEW AND APPROVAL PRIOR TO PROCUREMENT.
2. (a) ALL WELDING SHALL BE MINIMUM WELD CATEGORY GP (GENERAL PURPOSE) IN ACCORDANCE WITH AS 1554.1 - STRUCTURAL STEEL WELDING. STRUCTURAL STEEL > 500 MPa TO BE IN ACCORDANCE WITH AS 1554.4.
- (b) THE NOMINAL TENSILE STRENGTH (f<sub>w</sub>) OF WELD CONSUMABLES SHALL BE:
  - ALL STEEL WITH GRADE <= 300 MPa : 430 MPa
  - ALL STEEL WITH 300 < GRADE <= 450 MPa : 490 MPa
  - ALL STEEL WITH 450 < GRADE <= 690 MPa : 760 MPa
- (c) WHERE BOTH PLATES TO BE WELDED ARE GREATER THAN 2.5mm THICK, THE MINIMUM WELD IS TO BE 6mm FILLET CFW ALL ROUND.
- (d) WHERE EITHER OF THE PLATES TO BE WELDED ARE LESS THAN 2.5mm THICK, WELDING SHALL BE BY THE METAL INERT GAS TECHNIQUE (MIG) CONFORMING TO AS 1554.
- (e) JOINTS INDICATED AS 'LT SUSCEPTIBLE' (LAMELLAR TEARING) SHALL BE SUPPLIED ULTRASONICALLY TESTED TO AS 1710 CLASS 1.
- (f) SUPPLEMENTARY ULTRASONIC TESTING TO AS 2207 AND AS/NZS 1554.1 IS REQUIRED FOR PLATES 40mm THICKNESS & OVER.
- (g) NON-DESTRUCTIVE EXAMINATION OF WELDS SHALL BE AS DEFINED IN TABLE 13.6.2.2(A) OF AS/NZS 5131.
3. ALL STRUCTURAL STEELWORK MEMBERS SHALL BE SUPPLIED IN A SINGLE LENGTH, EXCEPT WHERE INDICATED WITH A SPLICE ON THE STRUCTURAL DRAWINGS. SPLICES AT OTHER LOCATIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO FABRICATION.
4. ALL CUTTING, HOLING AND SHAPING OF STRUCTURAL STEEL SHALL CONFORM TO THE REQUIREMENTS OF AS/NZS 5131. PENETRATIONS OR CUT-OUTS OTHER THAN THOSE SHOWN ON THE DRAWINGS SHALL NOT BE MADE WITHOUT PRIOR APPROVAL.
5. BOLTING DESIGNATION IS AS FOLLOWS:

4.6/S	COMMERCIAL GRADE 4.6 BOLTS TO AS 1111 SNUG TIGHT TO AS/NZS 5131
8.8/S	HIGH STRENGTH STRUCTURAL BOLTS GRADE 8.8 TO AS 12521 SNUG TIGHT TO AS/NZS 5131
8.8/TB	HIGH STRENGTH STRUCTURAL BOLTS GRADE 8.8 TO AS 12521 FULLY TENSIONED TO AS/NZS 5131 AS A BEARING JOINT
8.8/TF	HIGH STRENGTH STRUCTURAL BOLTS GRADE 8.8 TO AS 12521 FULLY TENSIONED TO AS/NZS 5131 AS A FRICTION JOINT

- (a) HIGH STRENGTH BOLTS SHALL BE VERIFIED TO AS/NZS 1252.2 INCLUDING THE 'SUPPLIER DECLARATION OF CONFORMITY'.
- (b) /TB & /TF BOLT CATEGORIES SHALL BE INSTALLED USING EITHER THE PART TURN METHOD OR DIRECT TENSION INDICATOR METHOD TO AS/NZS 5131.
- (c) /TF BOLTS SHALL BE FREE FROM PAINT OR FINISHES AND PREPARED IN ACCORDANCE WITH AS/NZS 5131. THE CONTRACTOR SHOULD SUBMIT TO THE ENGINEERS FOR APPROVAL 2 COPIES OF THE SHOP DRAWINGS BEFORE COMMENCING FABRICATION.
7. ALL COLUMN BASE PLATES SHALL BE SET ON 20mm MIN OF PORTLAND CEMENT GROUT. FOOTING BOLTS AND GROUTING UNDER STEEL BASE PLATES SHALL MEET THE REQUIREMENTS OF AS/NZS 5131.
8. EXCEPT WHERE OTHERWISE SHOWN IN THE DETAILS ALL STEEL TO STEEL CONNECTIONS SHALL BE 10PL CLEAT AND SHALL HAVE A MINIMUM OF 2M16 (8.8/S) BOLTS.
9. (a) ALL STRUCTURAL STEELWORK TO BE TREATED IN ACCORDANCE WITH THE ARCHITECT'S SPECIFICATION & AS 2312 AS FOLLOWS:
  - INTERNAL STEELWORK WITH A MINIMUM 75 MICRONS (DRY FILM THICKNESS) RED OXIDE ZINC PHOSPHATE.
  - EXTERNAL STEELWORK WITH A MINIMUM 75 MICRONS (DRY FILM THICKNESS) INORGANIC ZINC SILICATE.
- (b) ALL PAINTED SURFACES TO BE PREPARED TO TREATMENT GRADE 'P2' IN ACCORDANCE WITH AS/NZS 5131.
- (c) COATING QUALITY LEVELS ARE TO BE ASSESSED TO AS/NZS 5131 AS FOLLOWS:
  - INTERNAL STEELWORK: PC1
  - EXTERNAL STEELWORK: PC1
  - EXTERNAL STEELWORK: PC2
- (d) STRUCTURAL STEELWORK TO BE GALVANIZED SHALL CONFORM TO THE REQUIREMENTS OF AS/NZS 5131 AND AS 2312.
- (e) ALL BOLTS SHALL BE IN ACCORDANCE WITH AS 1214 AND BE CADMIUM PLATED OR GALVANIZED, U.N.O.
- (f) ALL HOLDING DOWN BOLTS TO BE HOT DIP GALVANIZED (600g/sqm) U.N.O. EPOXY COAT ALL STEELWORK BELOW GROUND LEVEL.
- (g) ARCHITECTURALLY EXPOSED STEELWORK (AESS) SHALL CONFORM TO THE REQUIREMENTS OF AS/NZS 5131 AND THE AESS CATEGORY NOMINATED IN THE ARCHITECT'S SPECIFICATION. AESS COMPONENTS SHALL BE MINIMUM AESS 2 U.N.O. IT IS THE BUILDER'S RESPONSIBILITY TO CONFIRM AESS REQUIREMENTS PRIOR TO PROCUREMENT.
10. PROVIDE HOLES OR FIXING CLEATS FOR OTHER TRADES AS DIRECTED IN THE SPECIFICATION OR SHOWN ON THE ARCHITECTURAL DRAWINGS.

**STEEL NOTES CONTINUED**

11. PROVIDE APPROVED BRICK TIES TO ALL STEEL COLUMNS ETC. WHERE FACES ABUT BRICKWORK OR BLOCKWORK SEE DETAILS.
12. SEAL ALL OPEN ENDS OF PIPES OR RHS MEMBERS. GRIND OFF ALL VISIBLE WELDS AND BRAND MARKS TO NEAT APPEARANCE WHERE SPECIFIED.
13. (a) MASONRY AND CONCRETE ANCHORS WILL GENERALLY NOT BE CONSIDERED AS A SUITABLE ALTERNATIVE TO CAST-IN FERRULES EXCEPT AS SPECIFICALLY NOTED ON THE DRAWINGS.
- (b) ALL MASONRY AND CONCRETE ANCHORS SHALL BE INSTALLED STRICTLY IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND SHALL CONFORM TO THE REQUIREMENTS OF AS/NZS 5131. THE BUILDER MUST ENSURE THE ANCHOR LENGTH IS ADEQUATE TO ENSURE CORRECT EMBEDMENT, BEARING IN MIND THE THICKNESS OF THE PART BEING FASTENED. (ALL ANCHORS FOUND TO BE INSTALLED INCORRECTLY WILL BE REJECTED)
- (c) SITE TESTING SHALL BE PERFORMED ON MECHANICAL AND CHEMICAL ANCHORS TO VALIDATE CORRECT INSTALLATION (PROOF TESTING) WITH A MINIMUM 3 TESTS OR A 2.5% SAMPLE POPULATION, WHICHEVER IS GREATER. IF A FAILURE IS RECORDED, INCREASE TO MINIMUM 6 OR A 5% SAMPLE POPULATION. SITE TESTING OF POST INSTALLED ANCHORS SHALL BE UNDERTAKEN ACCORDING TO THE REQUIREMENTS OF AEFAC TECHNICAL NOTE - SITE TESTING GUIDELINES VOLUME 1 TO 4.
14. ALL DISSIMILAR METAL CONTACT TO BE ELECTRICALLY ISOLATED BY USE OF NON-CONDUCTIVE LOAD BEARING SPACERS TO MANUFACTURER'S SPECIFICATION.
15. ALL SITE WELDS TO BE MIN 6mm CONTINUOUS FILLET WELDS ALL ROUND U.N.O. PROPERLY CLEANED AND PREPARED BEFORE WELDING. POWER TOOL CLEAN TO CLASS 2 FOLLOWING WELDING AND PAINT WITH 2 COATS OF ZINC RICH PAINT AND TOP COAT TO MATCH EXISTING.
16. (a) THE CONTRACTOR SHALL REMAIN RESPONSIBLE AT ALL TIMES FOR PROVIDING ALL NECESSARY TEMPORARY BRACING AND OTHER SUPPORTS DURING ERECTION, TO STABILISE THE PARTIALLY CONSTRUCTED BUILDING.
- (b) PARTICULAR ATTENTION MUST BE PAID TO THE BUCKLING STABILITY OF BEAMS AND COLUMNS PRIOR TO THE CONNECTION OF PURLINS, GIRTS, FLYBRACES AND OTHER BRACING ELEMENTS.
- (c) IT IS THE RESPONSIBILITY OF THE BUILDER TO OBTAIN PROPER TECHNICAL ADVICE WHEREVER NECESSARY TO ENSURE THE PARTIALLY COMPLETED STRUCTURE IS SAFE FROM COLLAPSE.
- (d) THE INSTALLATION OF STATIC SAFETY LINE FIXING POINTS (WHERE REQUIRED BY THE RELEVANT AUTHORITIES) SHALL BE THE BUILDER'S RESPONSIBILITY.
17. ALL MEMBERS HAVING A NATURAL CAMBER WITHIN THE STRAIGHTNESS TOLERANCE SHALL BE ERECTED WITH THE NATURAL CAMBER UP.
18. ERECTION TOLERANCES SHALL CONFORM TO THE REQUIREMENTS OF AS/NZS 5131.
19. PROPRIETARY ITEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.
20. INSPECTION AND TEST PLANS (ITP) SHALL BE PREPARED IN ACCORDANCE WITH AS/NZS 5131 APPENDIX B4 FOR:
  - MATERIALS AND COMPONENTS
  - PREPARATION AND ASSEMBLY
  - WELDING
  - MECHANICAL FASTENING
  - CORROSION PROTECTION TO AS/NZS 5131 APPENDIX D AND THE NOMINATED COATING QUALITY LEVEL (NOTE 9c)
  - ERECTION
21. BUILDER TO ENGAGE QUALIFIED SAFETY CONSULTANT TO DESIGN & INSTALL STATIC ANCHOR POINTS FOR SAFE ACCESS FOR WORKING AT HEIGHT BOTH DURING CONSTRUCTION & IN-SERVICE. (SUCH AS ROOF ACCESS).

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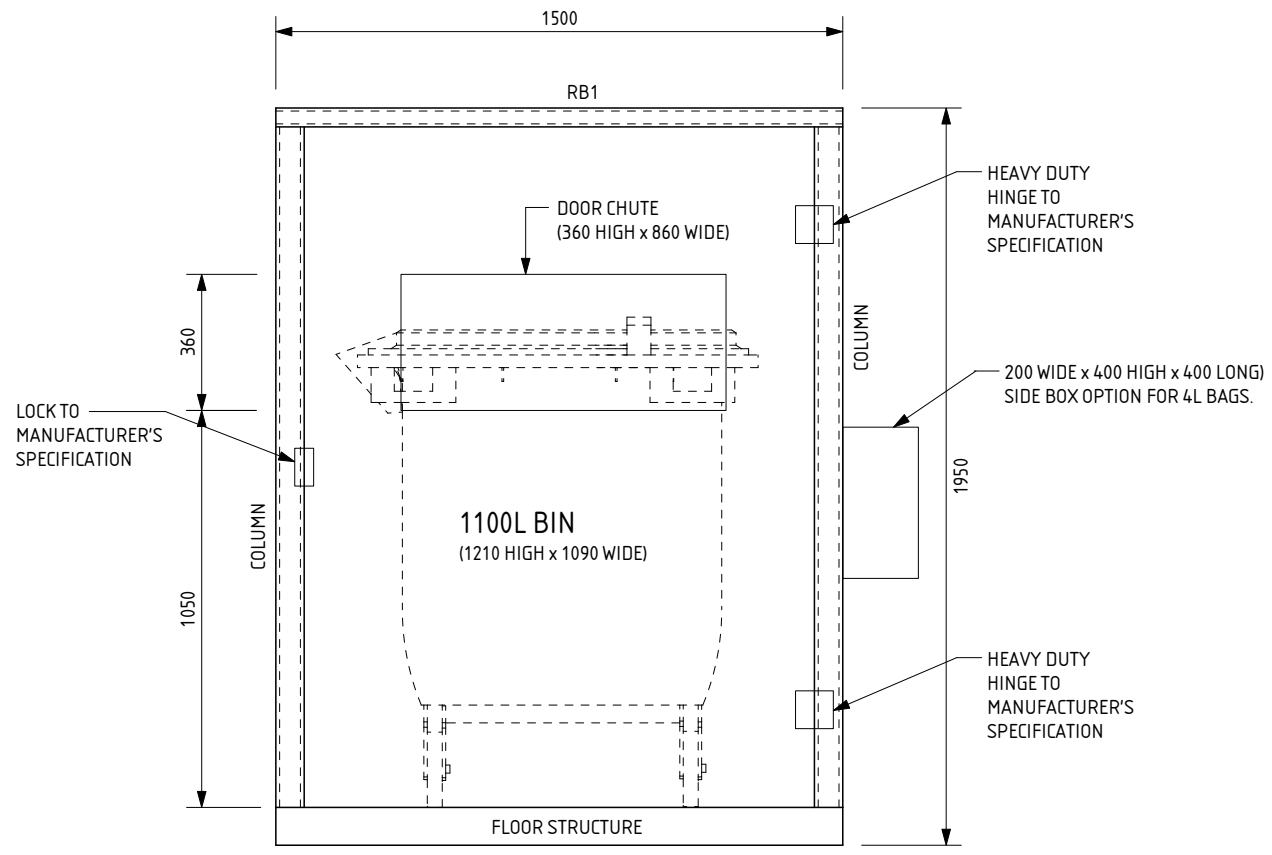



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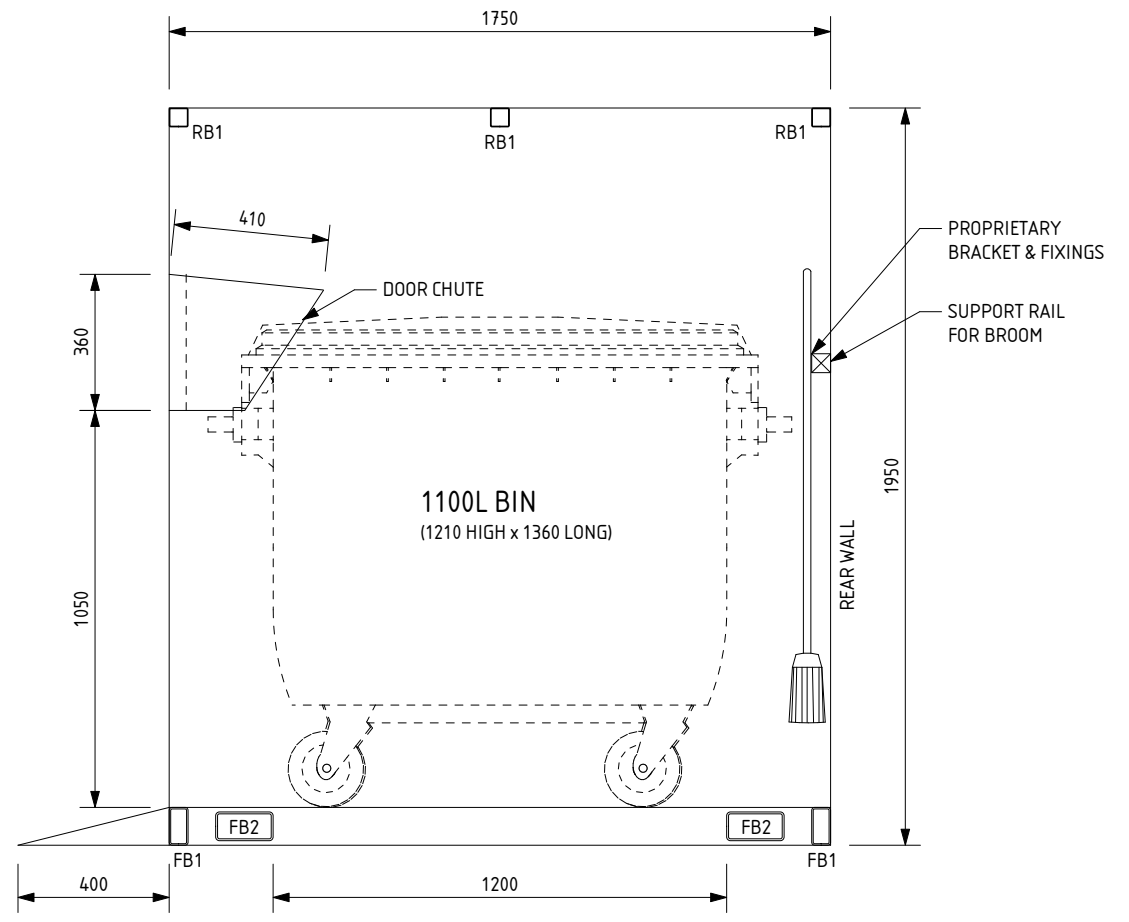
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SHEET SIZE A3



**FABRICATED STEEL BOX FRONT DOOR ELEVATION PLAN** 1:20



**FABRICATED STEEL BOX SIDE ELEVATION PLAN** 1:20

MEMBER SCHEDULE	
MARK	MEMBER
RB1	50 x 50 x 5.0 SHS
FB1	100 x 50 x 4.0 RHS
FB2	152 x 76 x 4.0 RHS

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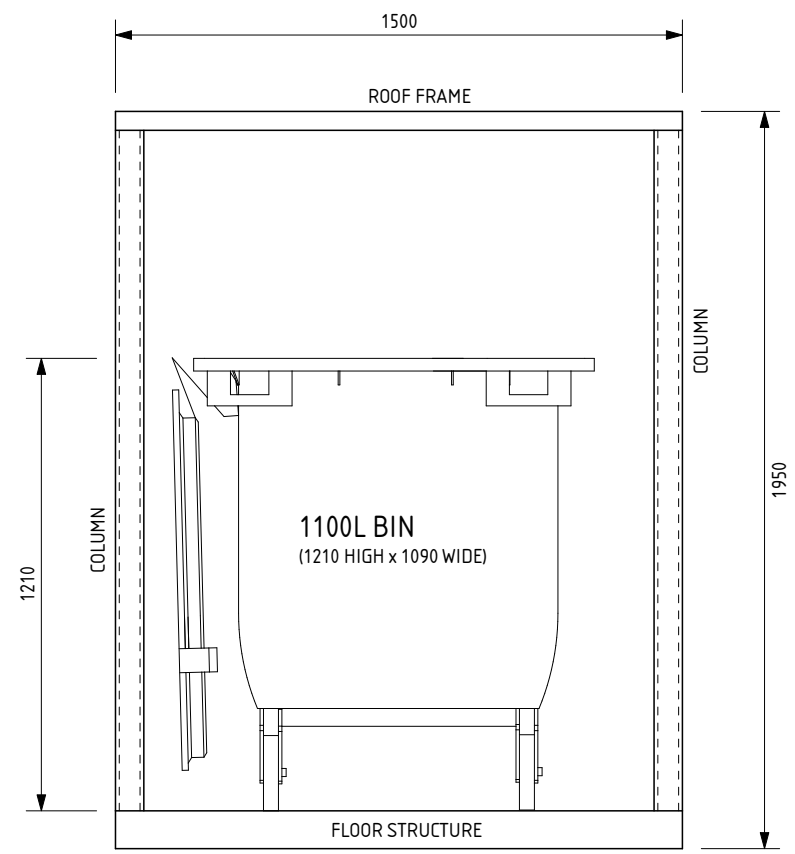
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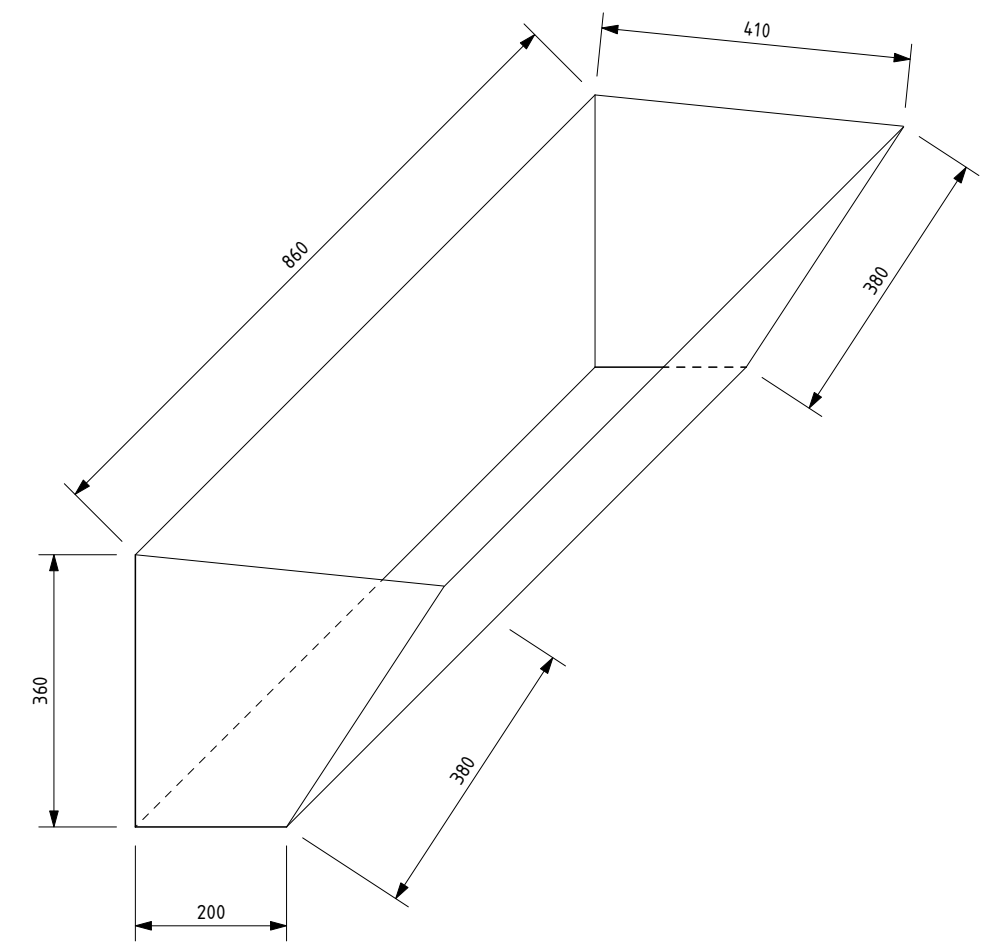
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**FABRICATED STEEL BOX SECTION** 1:20



**FABRICATED STEEL BOX DOOR CHUTE** 1:10

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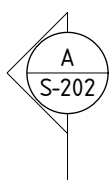
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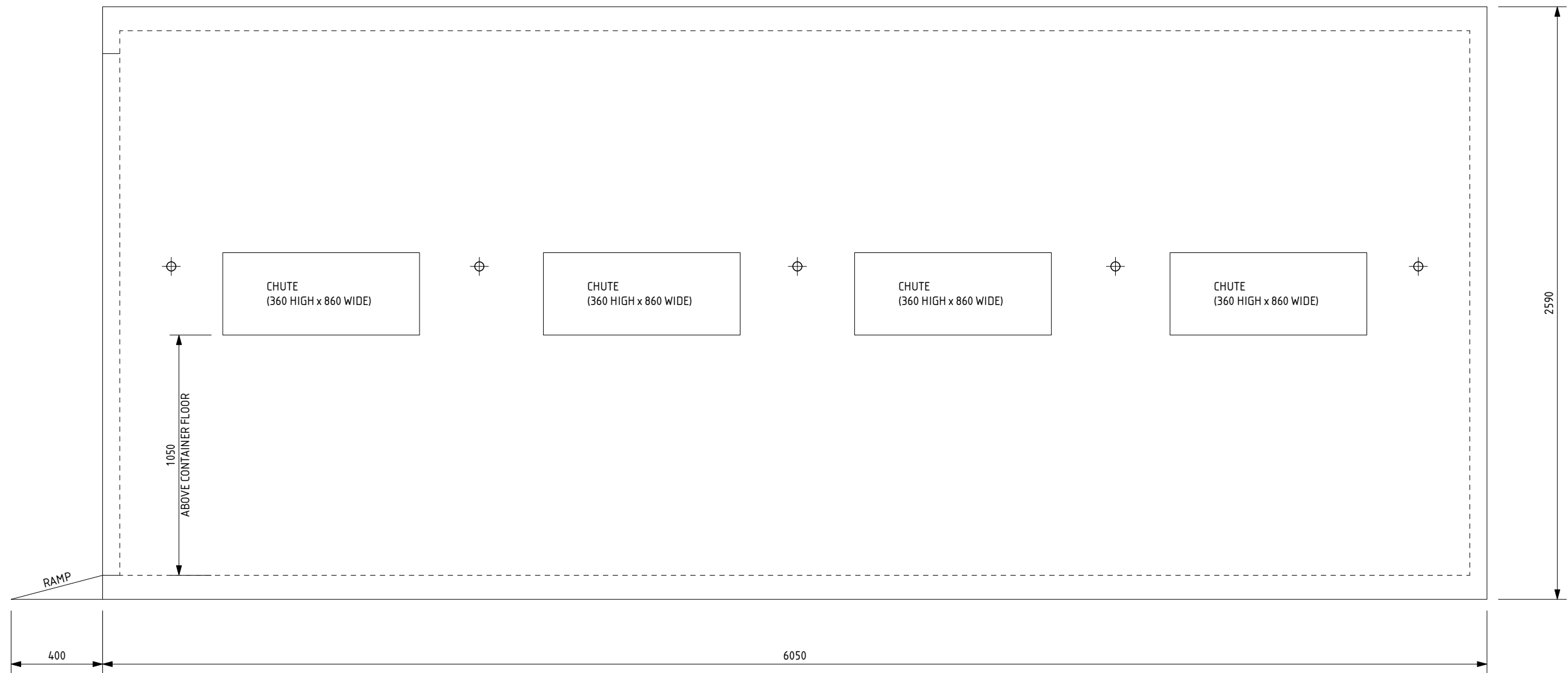
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A B C D E F G H J K

1  
2  
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4  
5  
6  
7  
8



LEGEND	
SYMBOL	DESCRIPTION
	I-BOLT FIXINGS FOR BULKA BAG HANDLES



**SHIPPING CONTAINER FRONT ELEVATION PLAN** 1:20

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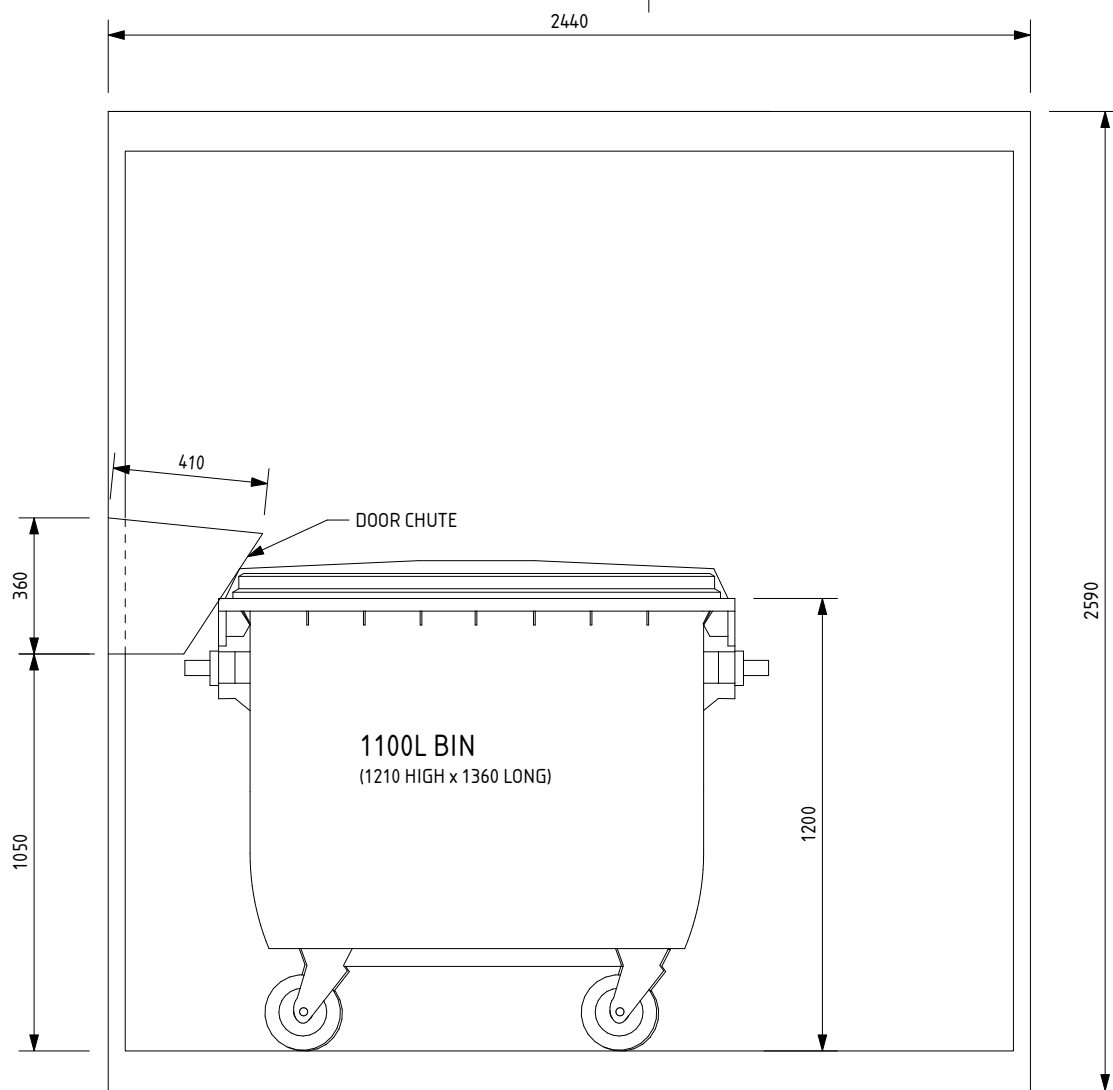
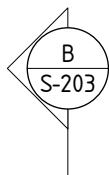
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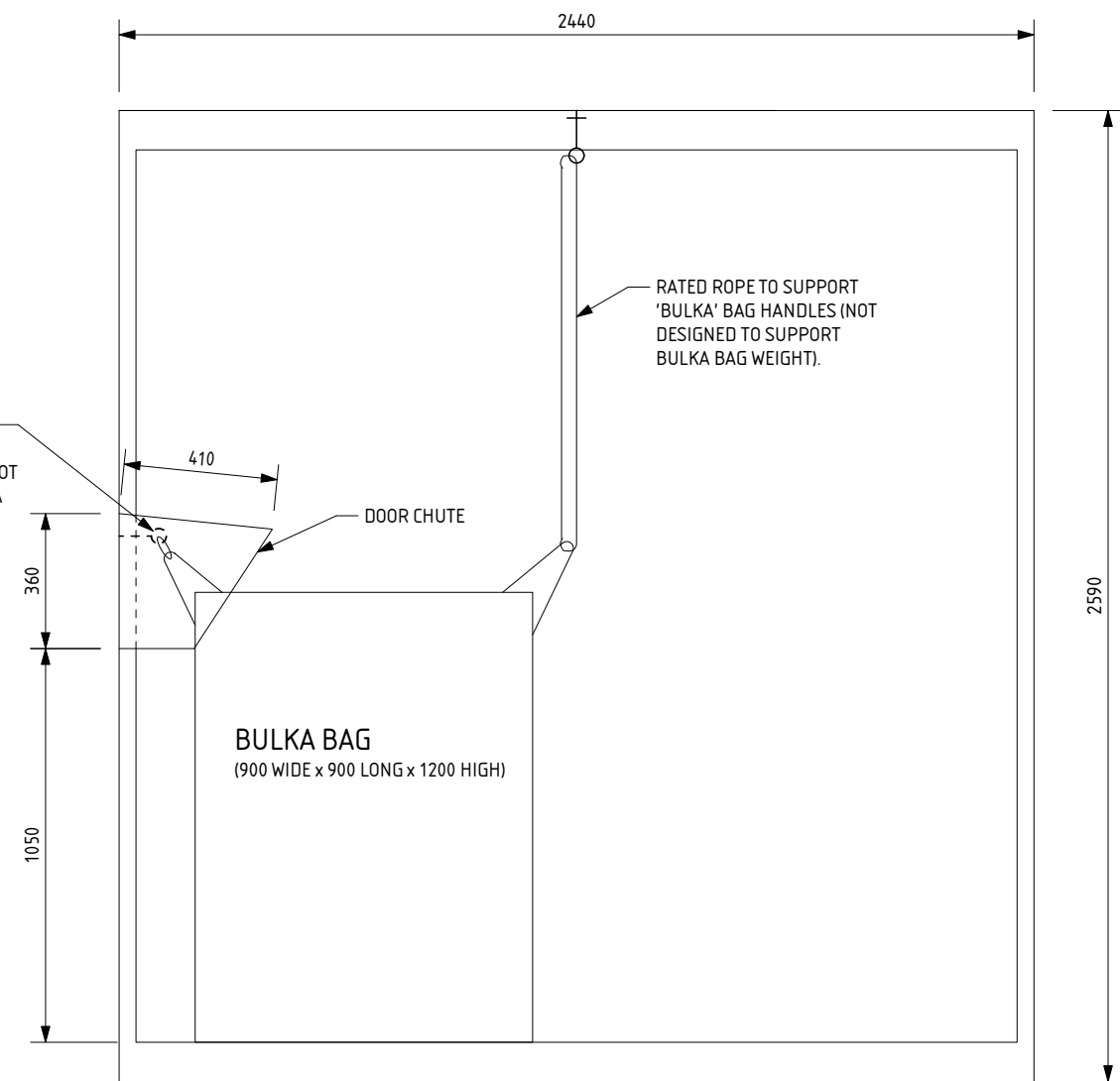
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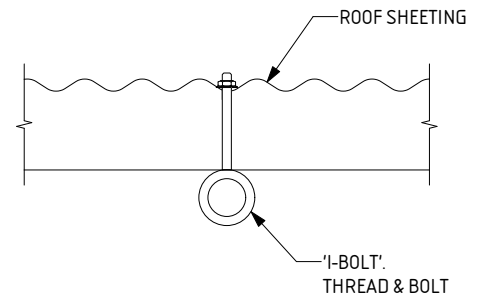


**A SECTION**  
S-201 SCALE: 1:20  
• 1100L BIN OPTION

SIMILAR FIXING WITH I-BOLT EACH SIDE OF CHUTE OPENING FOR 'BULKA' BAG HANDLES (NOT DESIGNED TO SUPPORT BULKA BAG WEIGHT).



**A SECTION**  
S-201 SCALE: 1:20  
• BULKS BAG OPTION



**I-BOLT FIXING DETAIL** NTS

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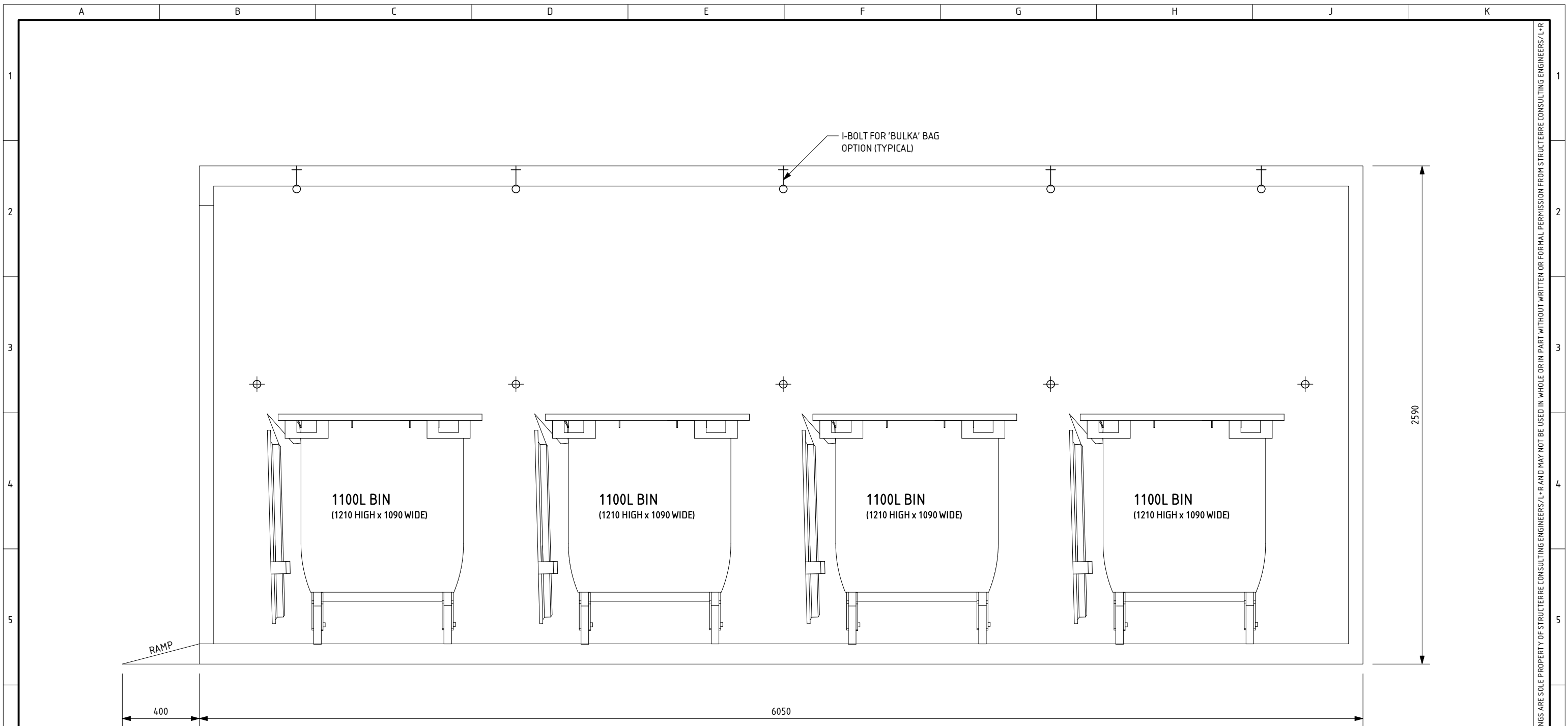
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**B** SECTION  
S-202 SCALE: 1:20

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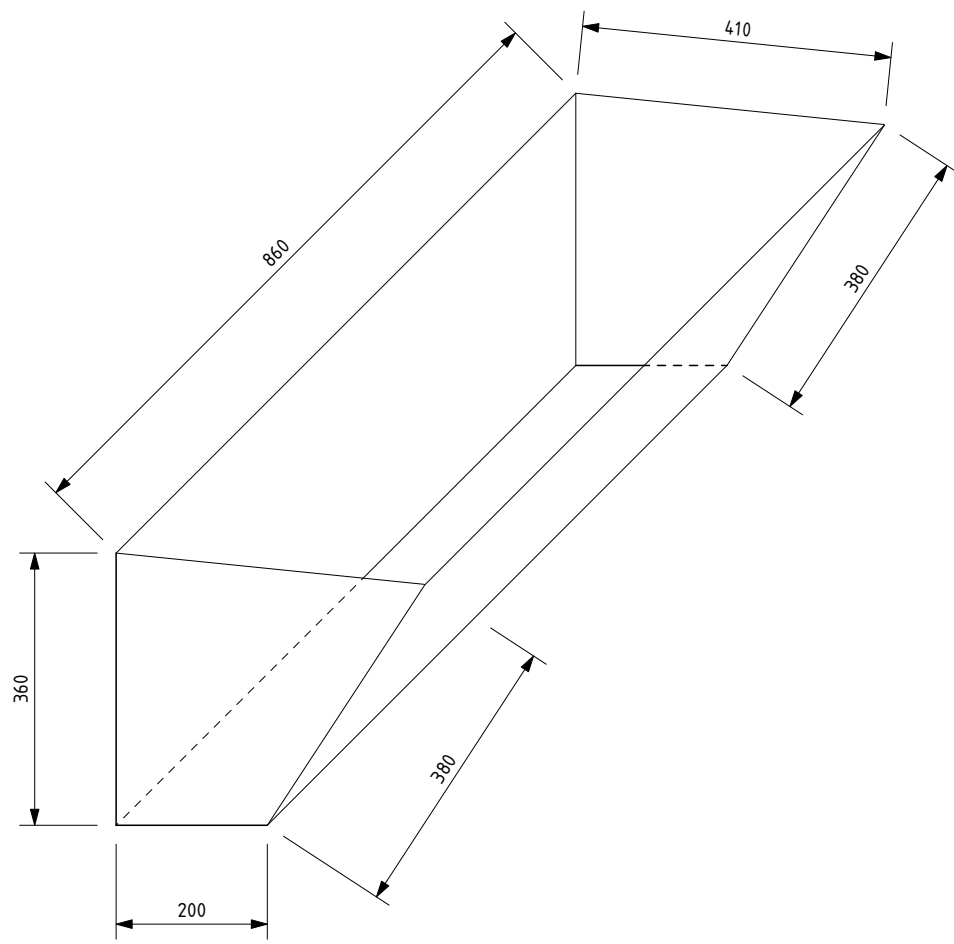
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**SHIPPING CONTAINER CHUTE** 1:10

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