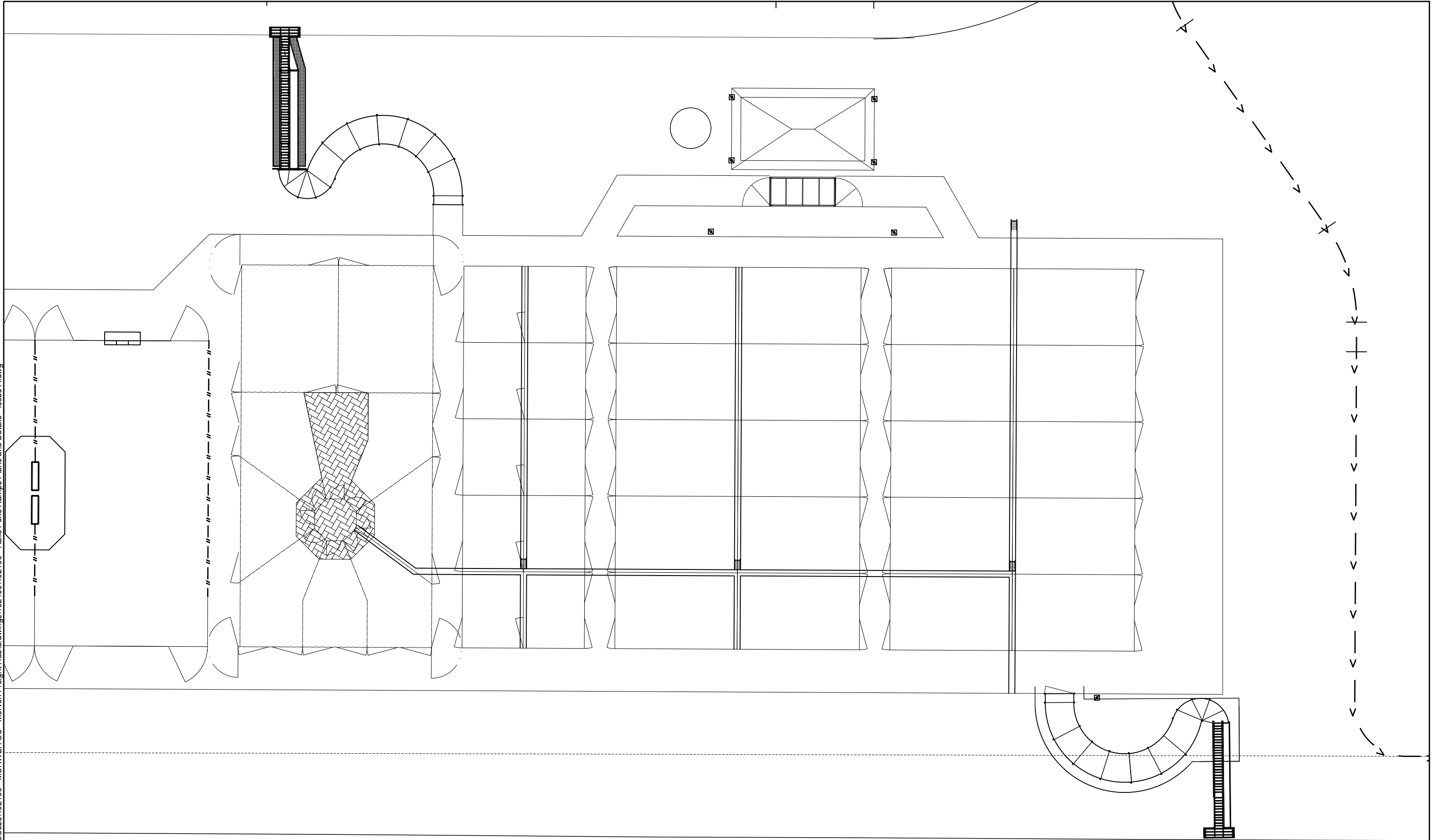


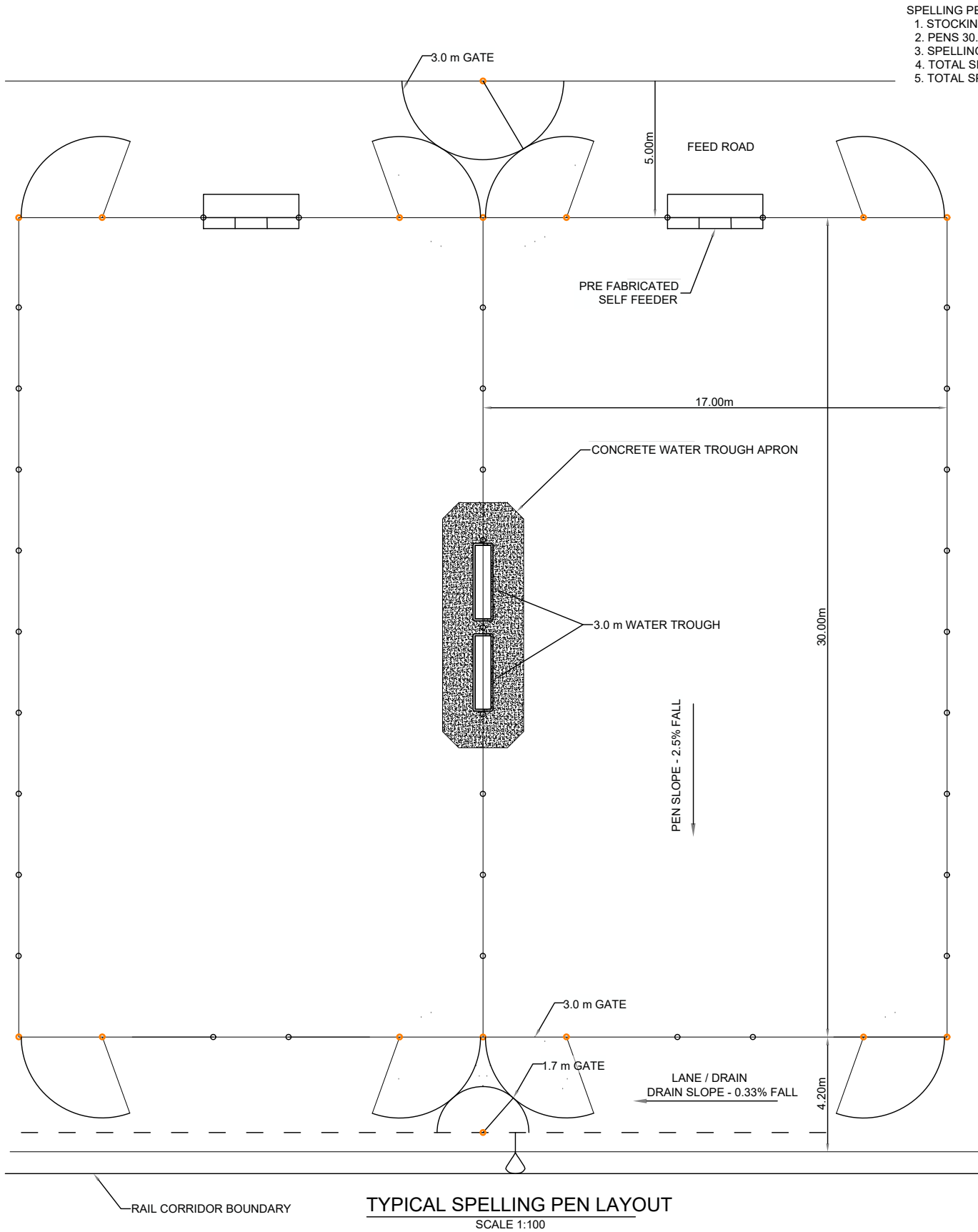
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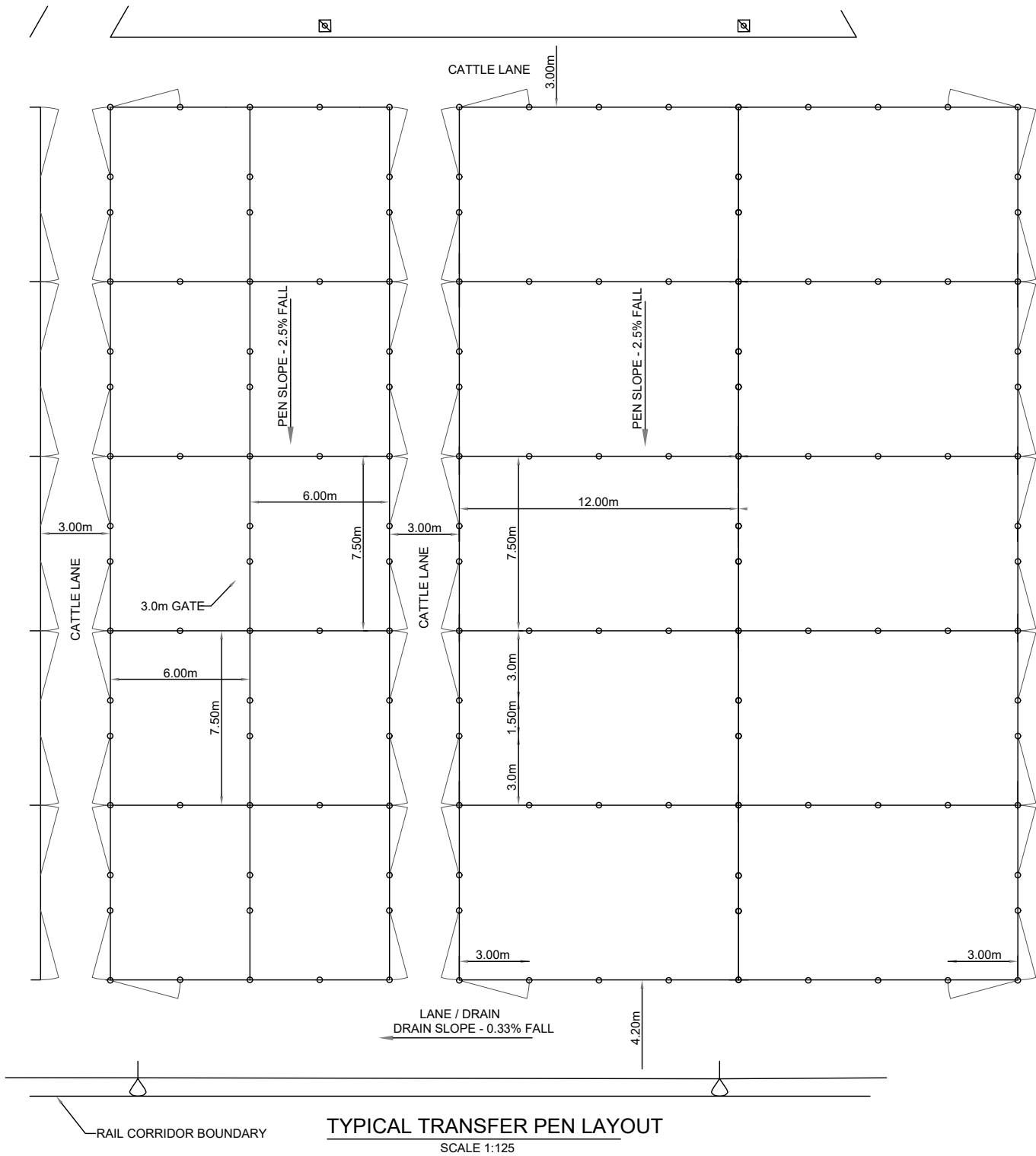
DRAWING NOT TO SCALE

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Designed	AS	Checked																																		
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Job Number		Drawing Number		Issue																																
192169		19216901		A																																
Number	01	of	21	Drawings																																
Full Size A3																																				
A	ISSUED FOR CONSTRUCTION	07/2020																																		

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TYPICAL SPELLING PEN LAYOUT
SCALE 1:100

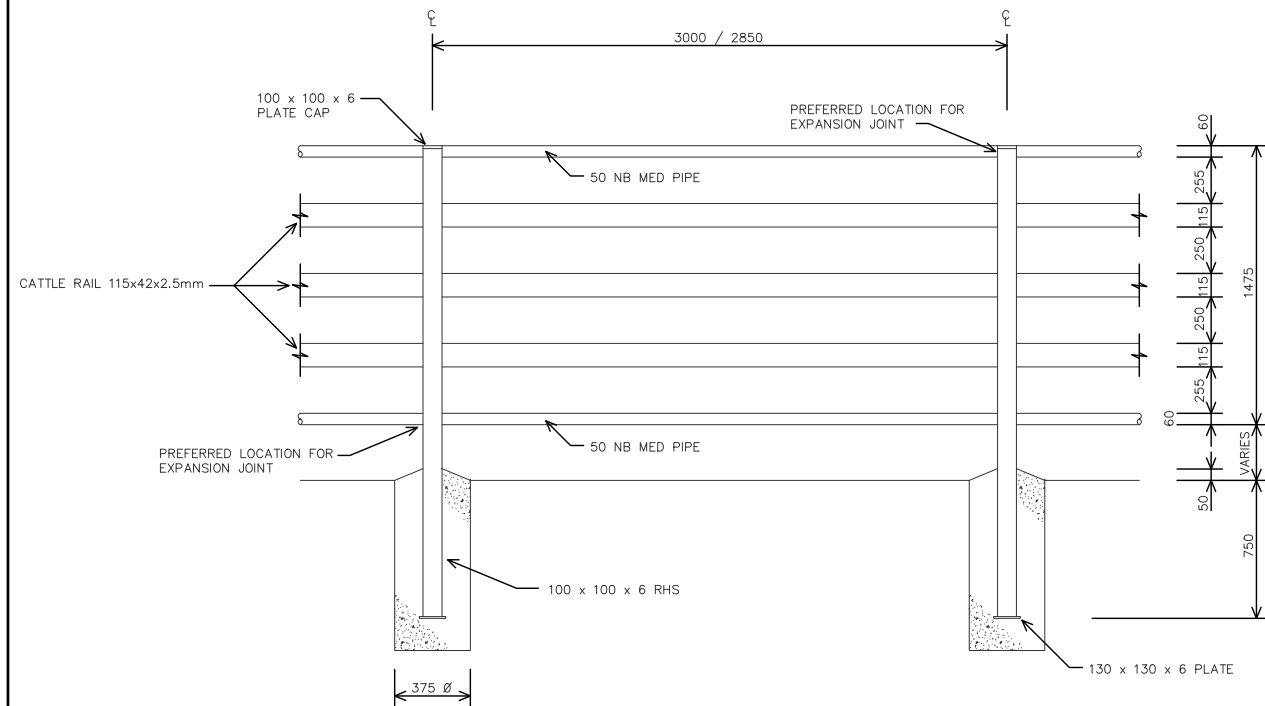


TYPICAL TRANSFER PEN LAYOUT
SCALE 1:125

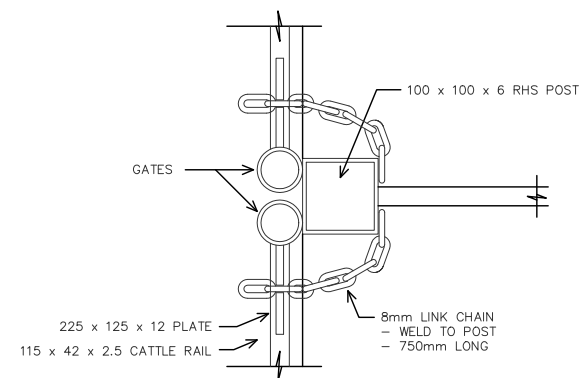
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Issue Status/Amendment		Date	brandon & ASSOCIATES ENGINEERING CONSULTANTS personal. professional. practical CHINCHILLA (HEAD OFFICE): 8 Colamba Street, Chinchilla Qld. 4413 Telephone: (07) 4668 9351 Fax: (07) 4668 9851 ROMA: 24 Quintin Street, Roma Qld. 4455 Telephone: (07) 4622 3799 Fax: (07) 4622 2041 TOOWOOMBA: 1/218 Anzac Avenue, Toowoomba Qld. 4350 Telephone: (07) 4636 4100 Fax: (07) 4636 4300
A		ISSUED FOR CONSTRUCTION	07/2020

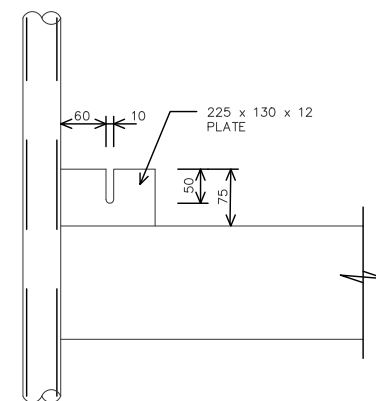
MURWEH SHIRE COUNCIL		Designed AS		Checked	
MORVEN FREIGHT HUB		Drawn AS		Checked	
LIVESTOCK TRANSPORTATION INTERCHANGE		Approved		ORIGINAL	
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Number 02 of 21		Drawings		Full Size A3	
				A	



TYPICAL FENCE ELEVATION

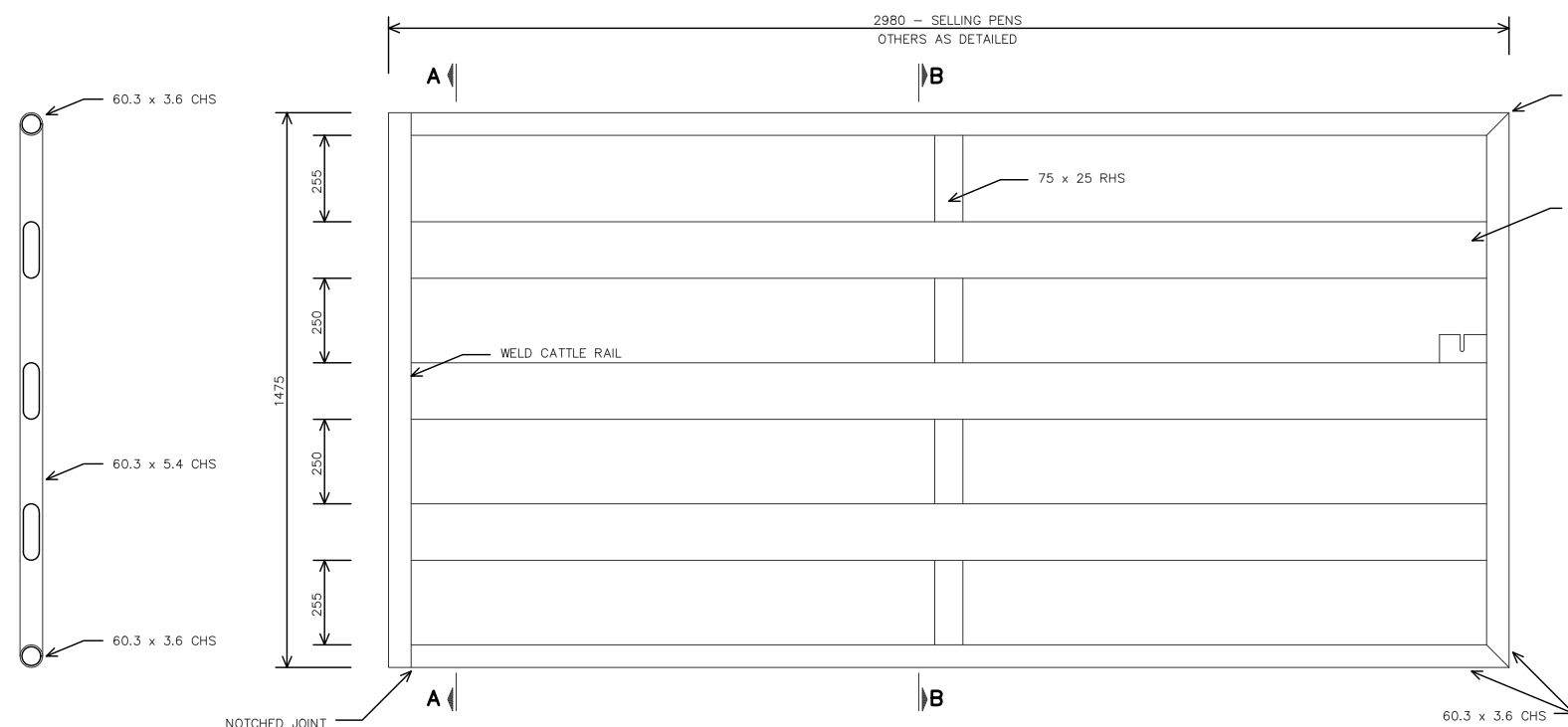


PLAN



ELEVATION

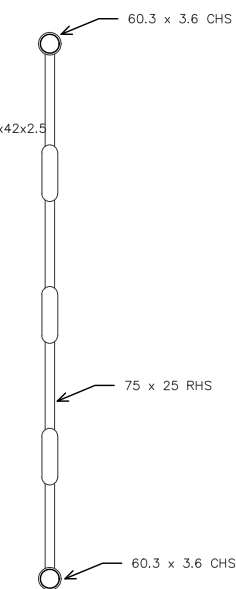
GATE CATCH DETAIL



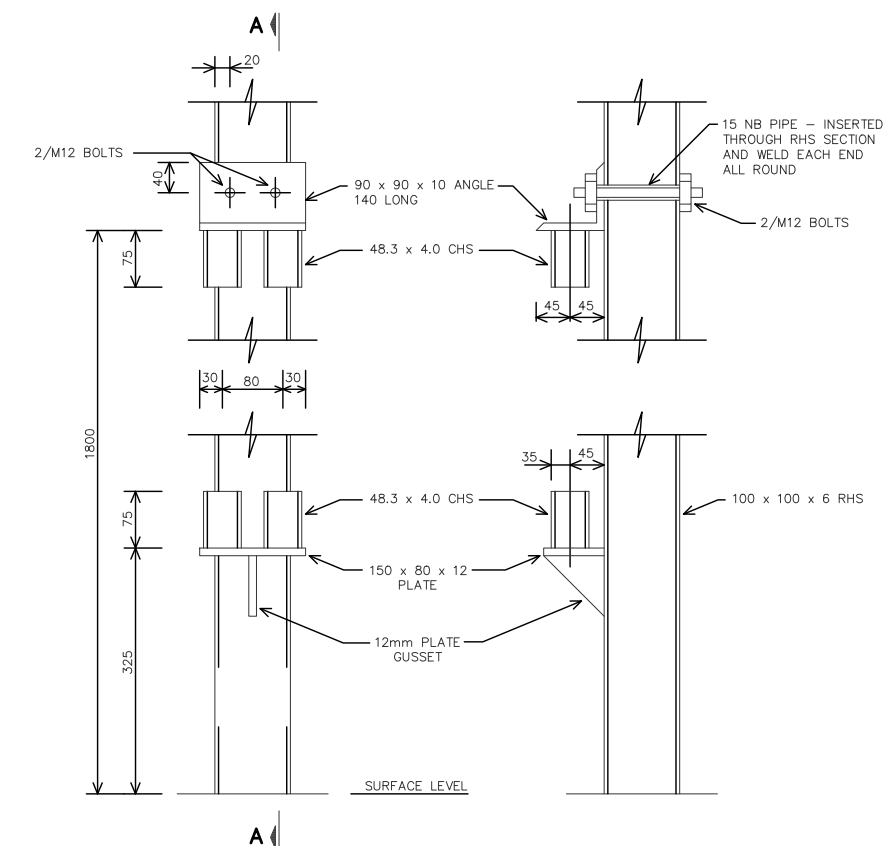
SECTION A-A

GATE ELEVATION

(SIDE FRONTING LANE)



SECTION B-B



FRONT ELEVATION

ELEVATION A-A

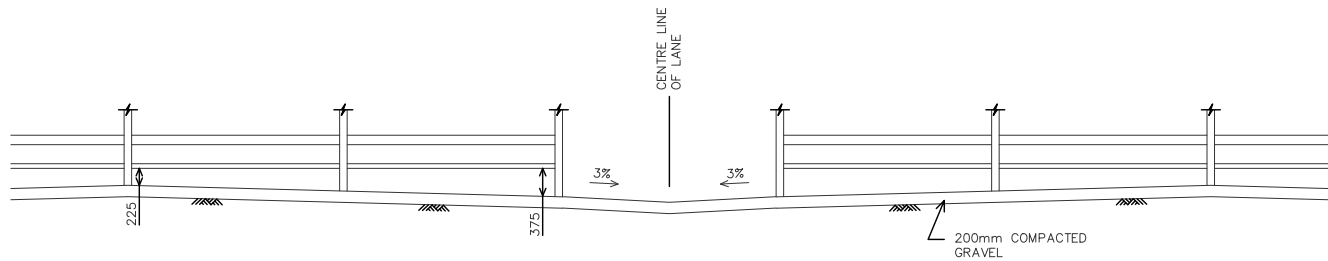
DOUBLE GATE HINGE DETAIL

DRAWING NOT TO SCALE

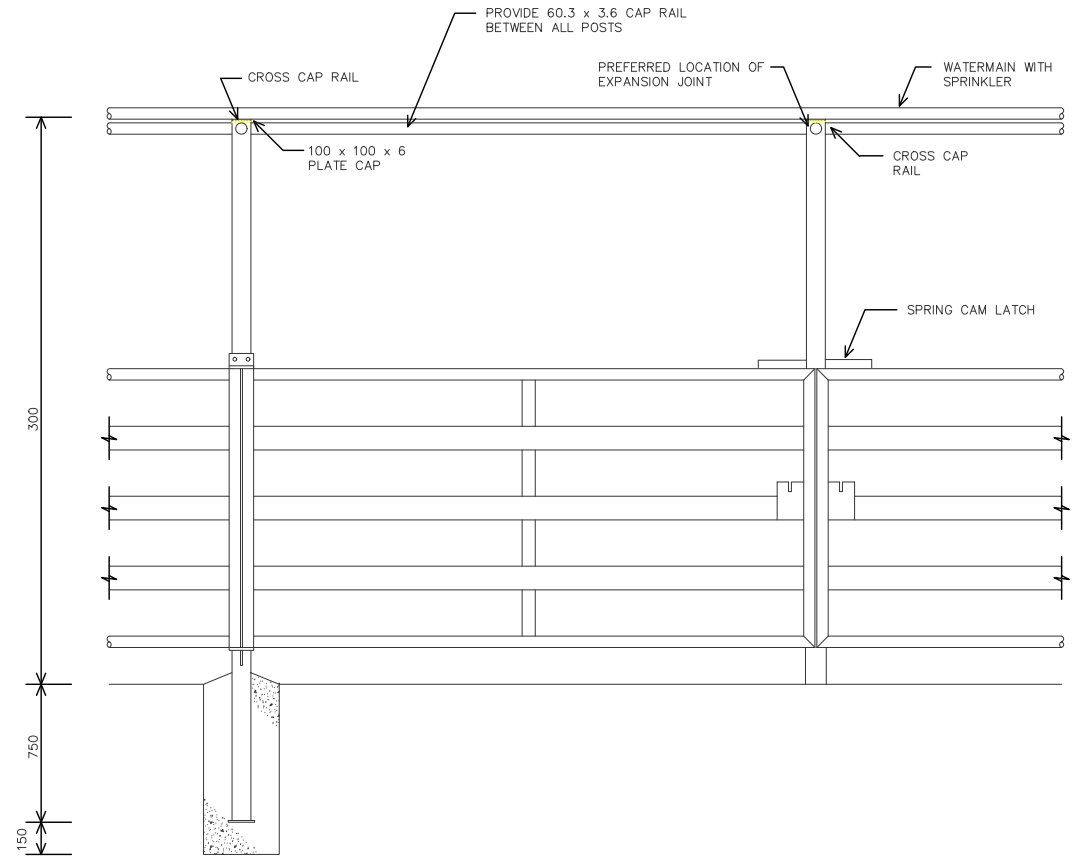
CAD REF:-

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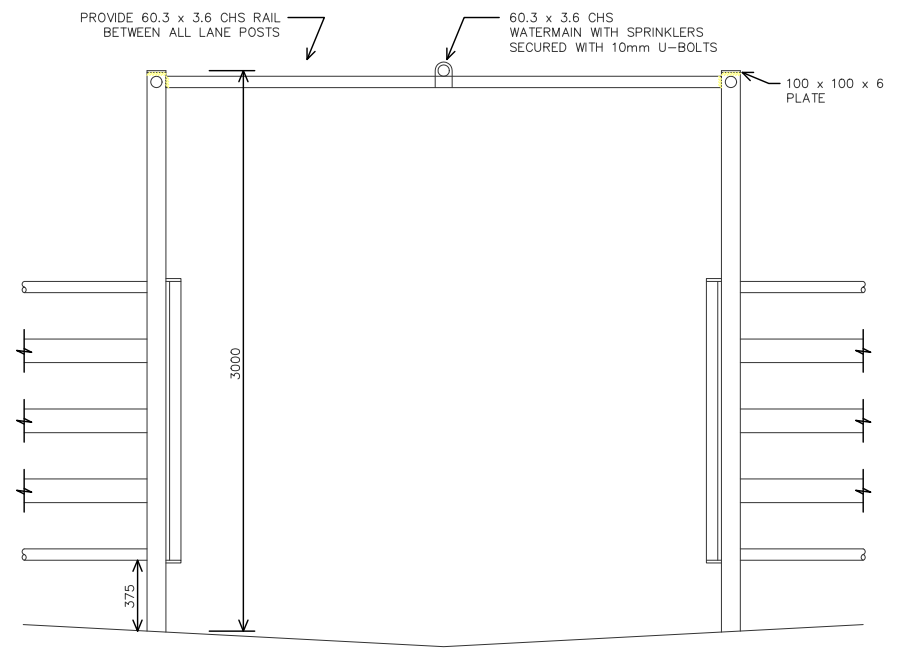
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SECTION A-A



ELEVATION A

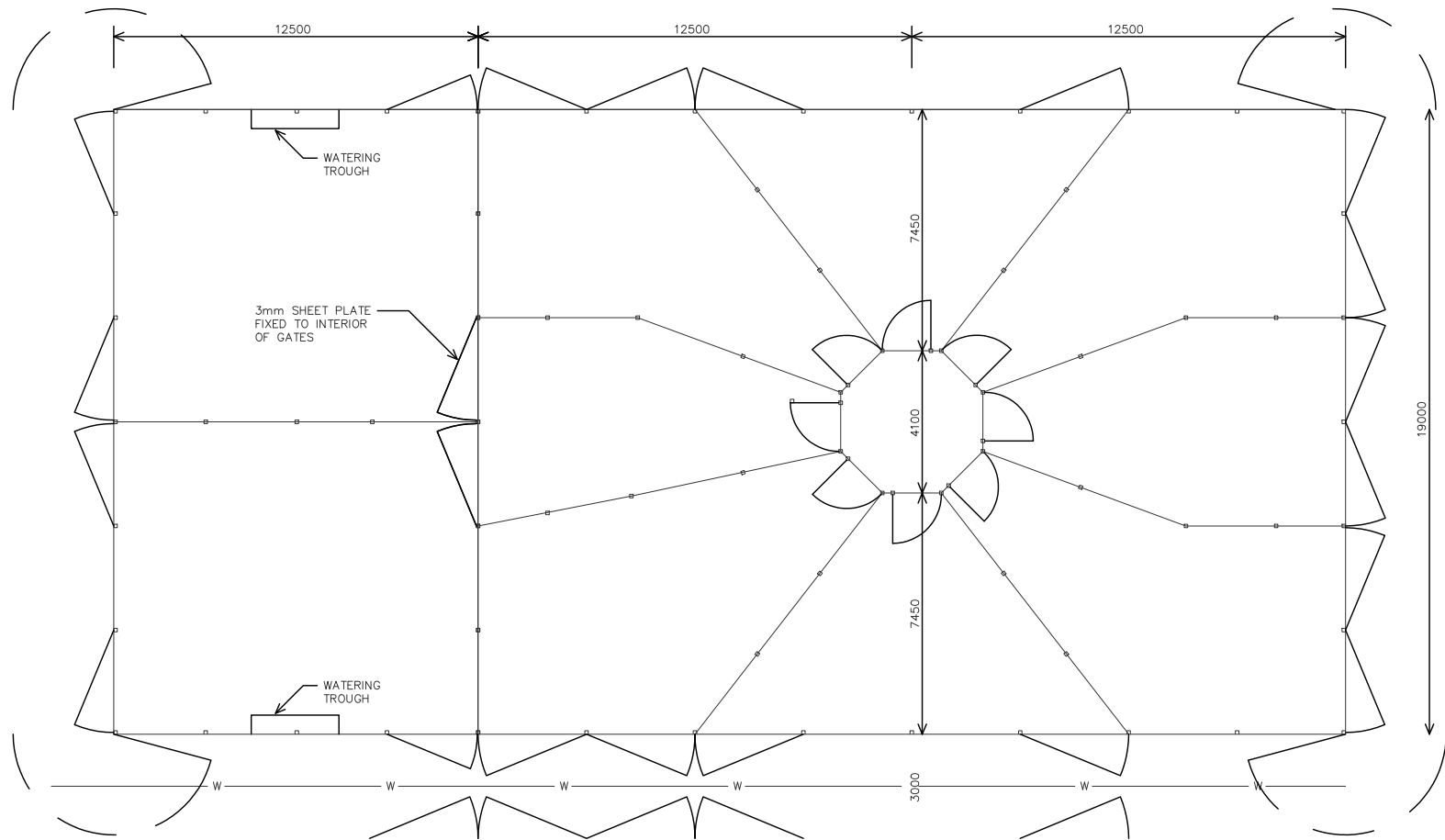


ELEVATION B

DRAWING NOT TO SCALE

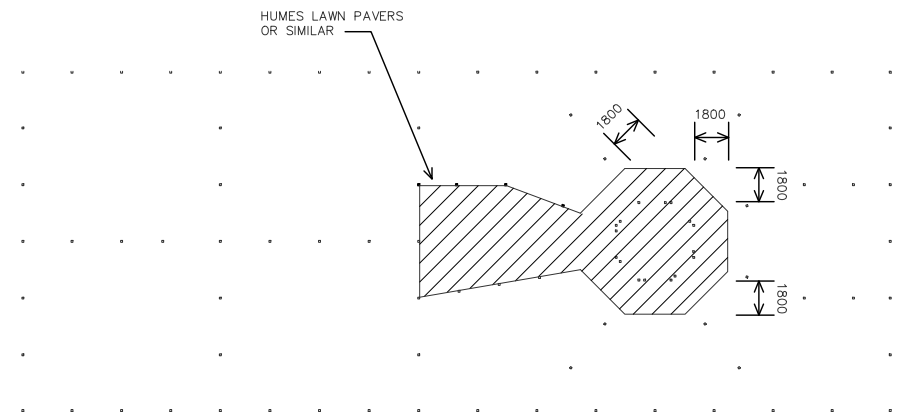
Issue Status/Amendment		Date	 brandon & ASSOCIATES ENGINEERING CONSULTANTS <i>personal. professional. practical</i> CHINCHILLA (HEAD OFFICE): 8 Colamba Street, Chinchilla Qld. 4413 Telephone: (07) 4668 9351 Fax: (07) 4668 9851 ROMA: 24 Quintin Street, Roma Qld. 4455 Telephone: (07) 4622 3799 Fax: (07) 4622 2041 TOOWOOMBA: 1/218 Anzac Avenue, Toowoomba Qld. 4350 Telephone: (07) 4636 4100 Fax: (07) 4636 4300		MURWEH SHIRE COUNCIL MORVEN FREIGHT HUB LIVESTOCK TRANSPORTATION INTERCHANGE © The information contained within this drawing and any associated drawings or intellectual property are subject to the copyright act & shall remain the property of B&A. The information is relevant to the project described and shall not be reproduced in part or full for any other project without express written approval from B&A.		Designed AS Drawn AS Approved LANE PROFILE AND IRRIGATION DETAILS Job Number 192169 Drawing Number 19216904 Issue A Number 04 of 21 Drawings Full Size A3	
A	ISSUED FOR CONSTRUCTION	07/2020						

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DRAFTING YARD LAYOUT PLAN

N.T.S

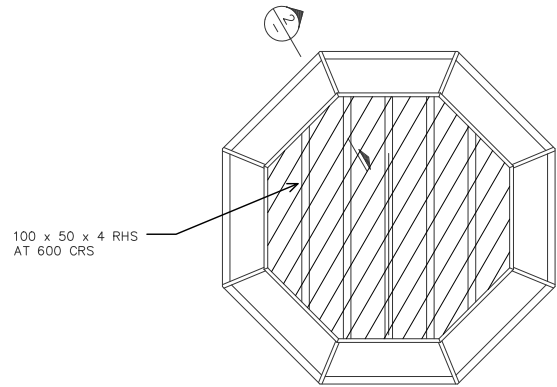


PAVING LAYOUT PLAN

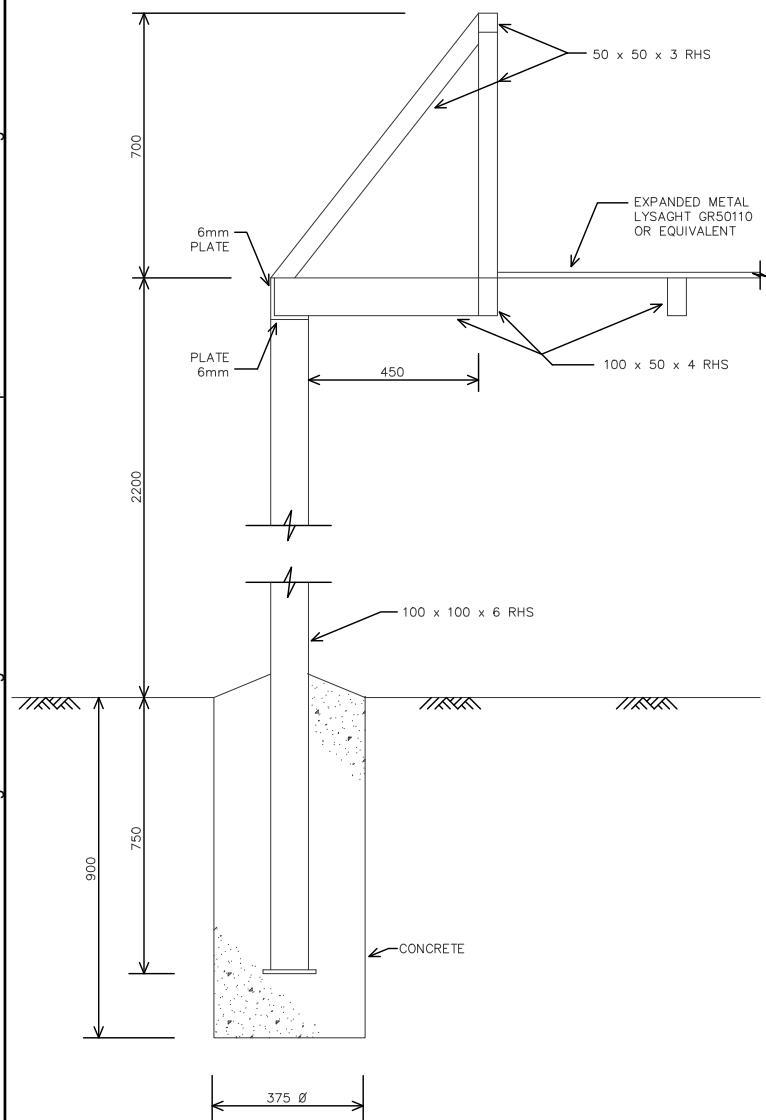
DRAWING NOT TO SCALE

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				Drawn AS	Checked					
				Approved						
A	ISSUED FOR CONSTRUCTION	07/2020						Job Number 192169	Drawing Number 19216905	Issue A
							Number 05 of 21 Drawings	Full Size A3		

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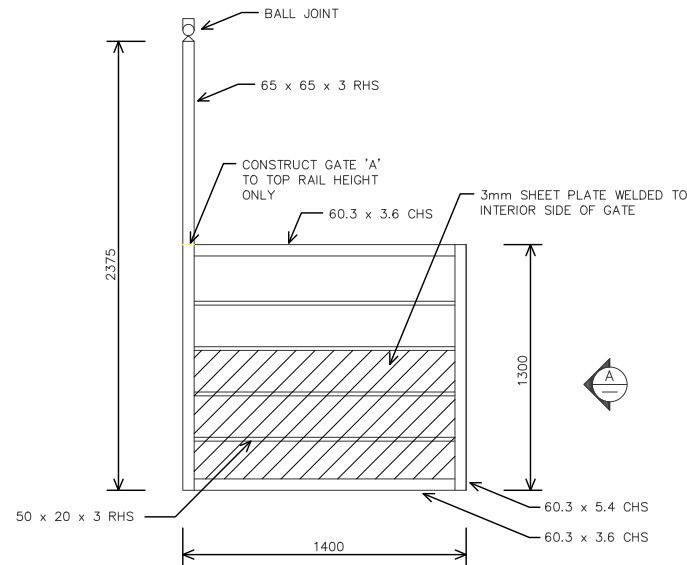


DRAFTING POUND PLATFORM



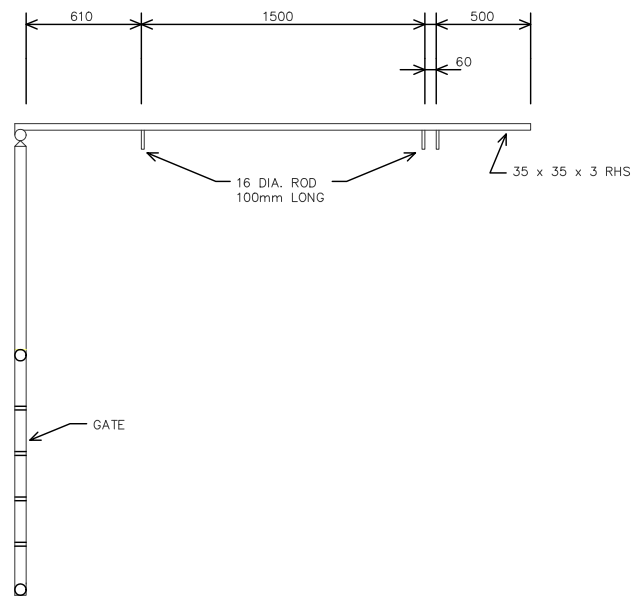
SECTION C-C

DRAWING NOT TO SCALE

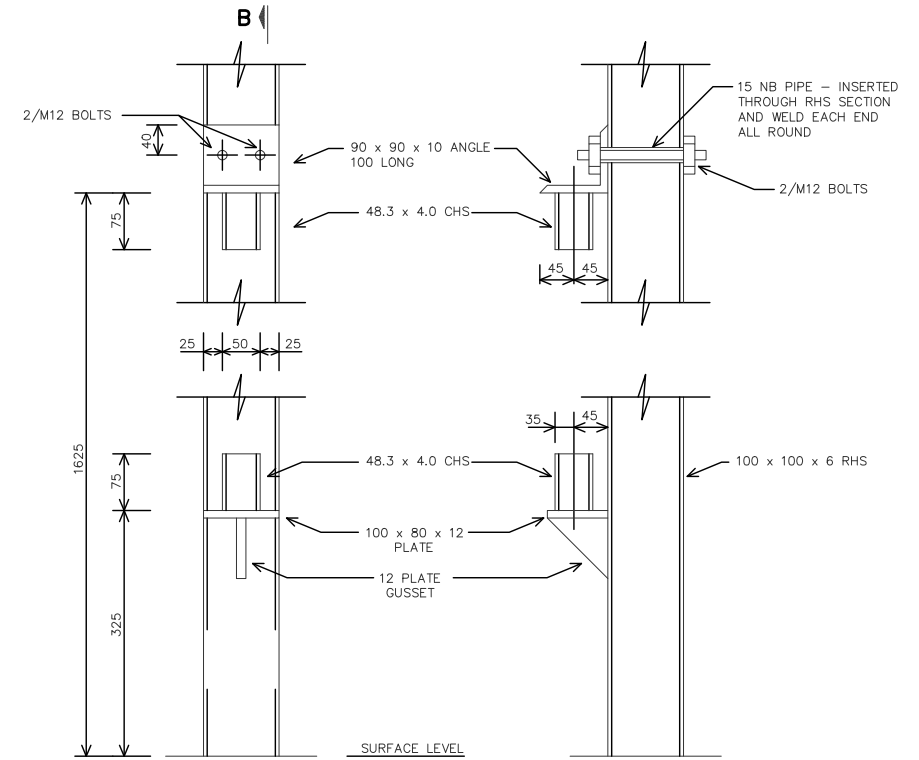


GATE ELEVATION

(TYPICAL EXCEPT FOR GATE 'A')



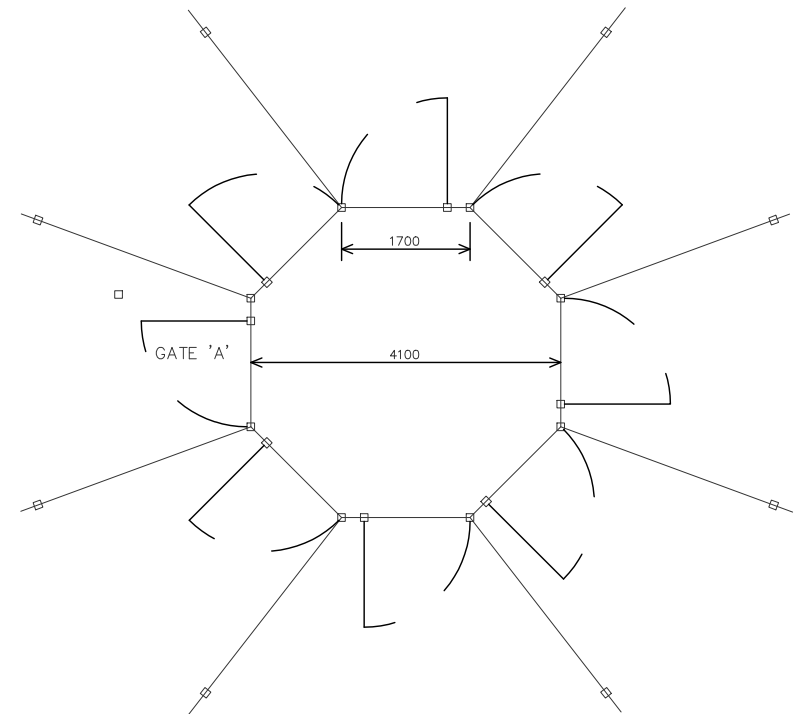
ELEVATION A



FRONT ELEVATION

ELEVATION B-B

SINGLE GATE HINGE DETAIL



DRAFTING POUND

Issue Status/Amendment		Date	MURWEH SHIRE COUNCIL MORVEN FREIGHT HUB LIVESTOCK TRANSPORT INTERCHANGE				DRAFTING YARD DETAIL			
A		ISSUED FOR CONSTRUCTION	07/2020	Designed AS Drawn AS Approved			Job Number 192169		Drawing Number 19216906	
							Number 06 of 21	Drawings	Full Size A3	Issue A



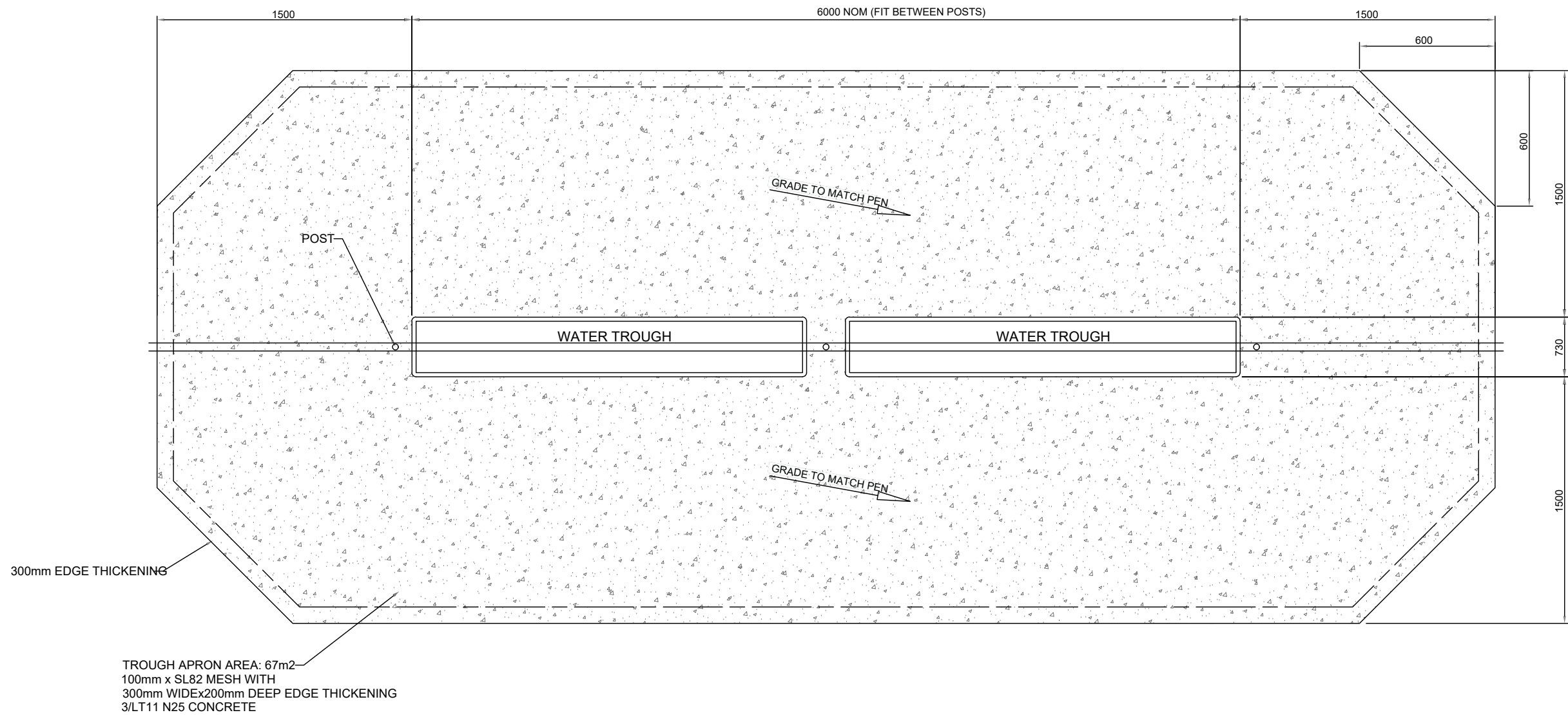
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				Job Number 192169	Drawing Number 19216907	Issue A		
A	ISSUED FOR CONSTRUCTION	07/2020		Number07of21Drawings	Full Size A3			

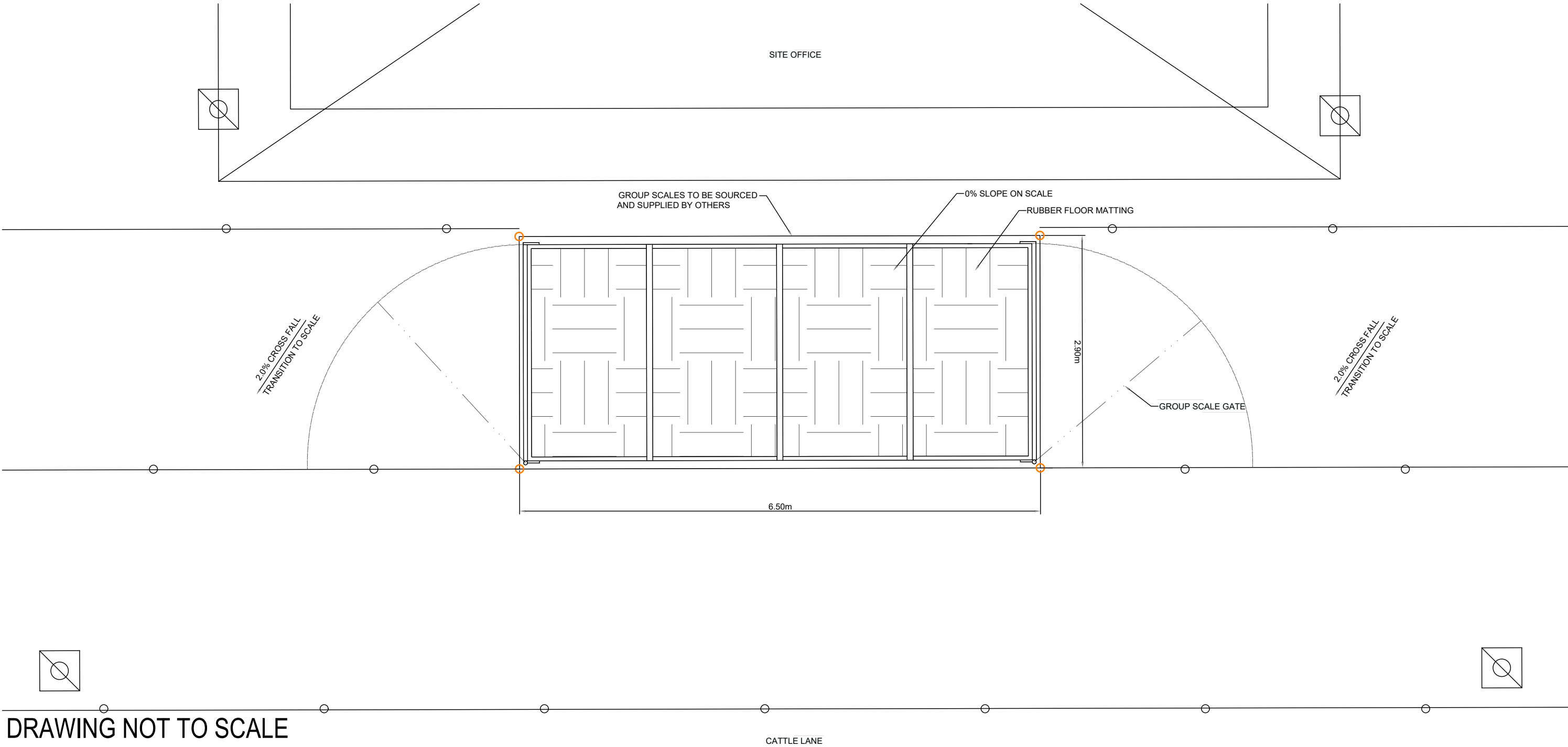
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20 HEAD GROUP SCALES

TOTAL AREA - 17.6m²
PER HEAD AREA - 1.14m²

LEGEND

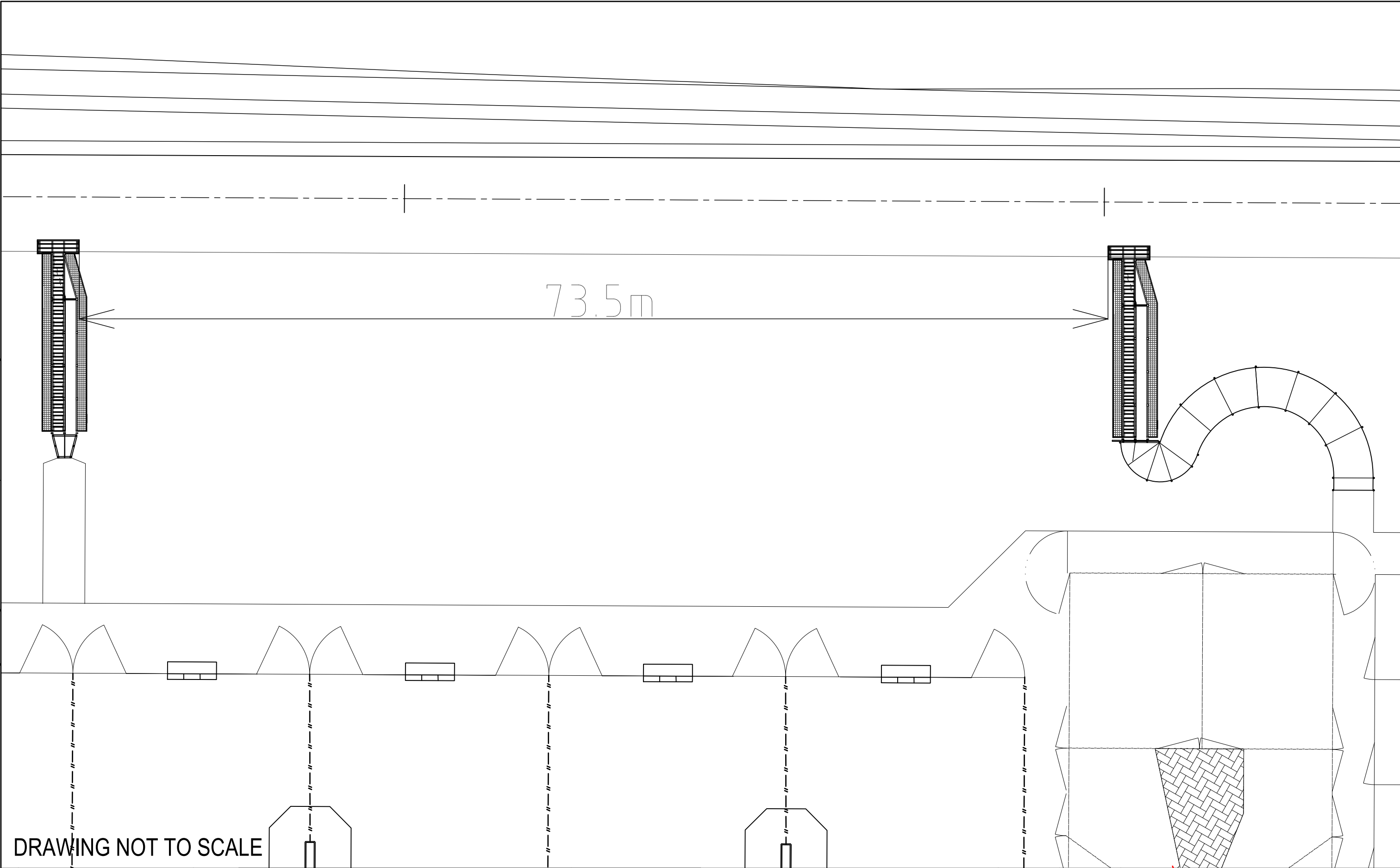
- PANEL FENCE
- STANDARD FENCE POST
- CORNER/STAY FENCE POST



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Issue Status/Amendment		Date
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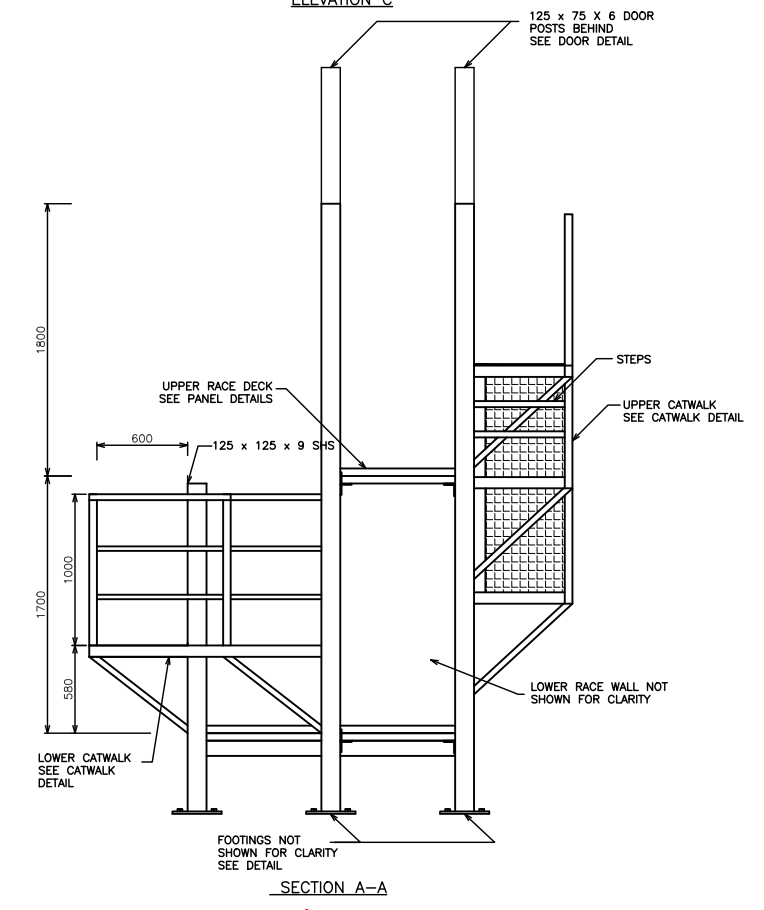
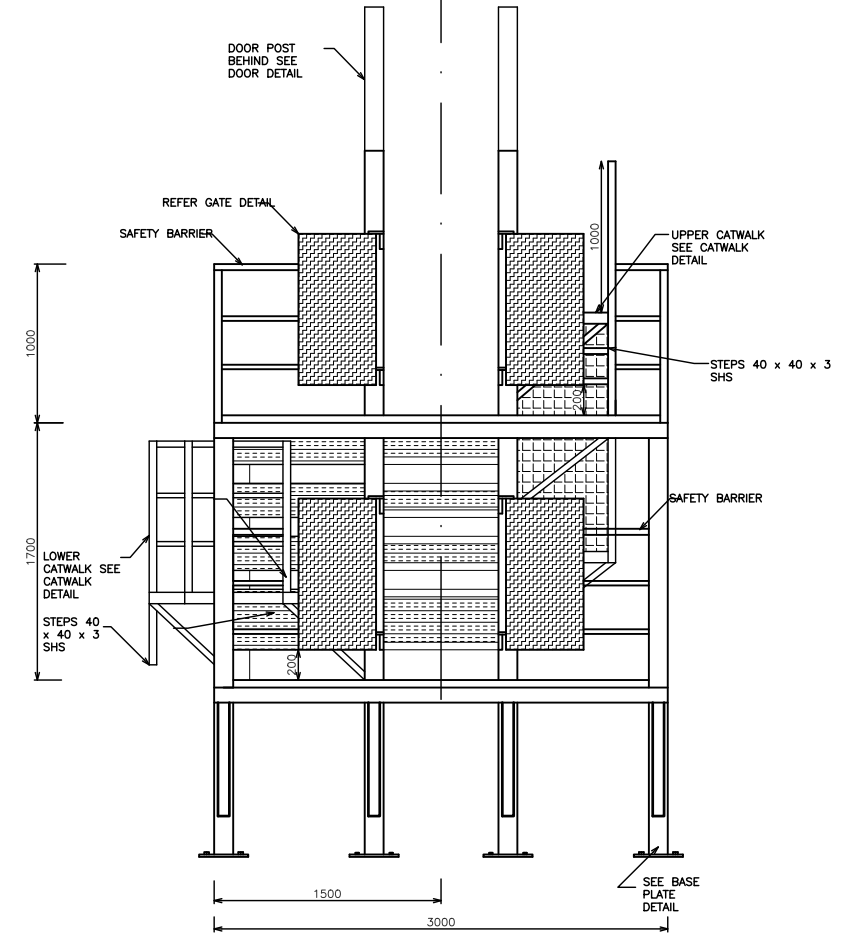
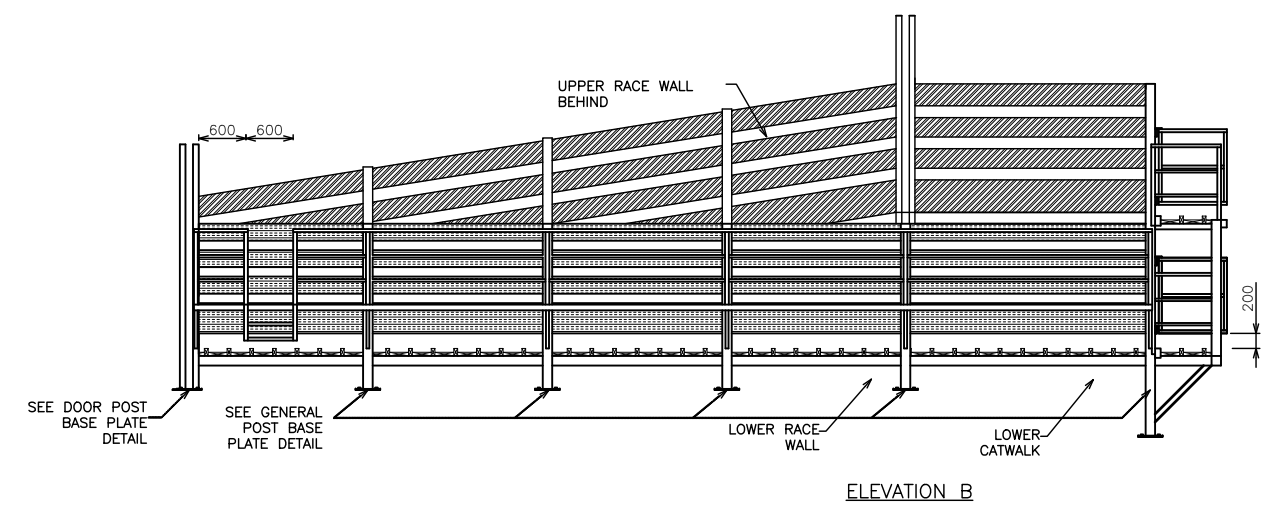
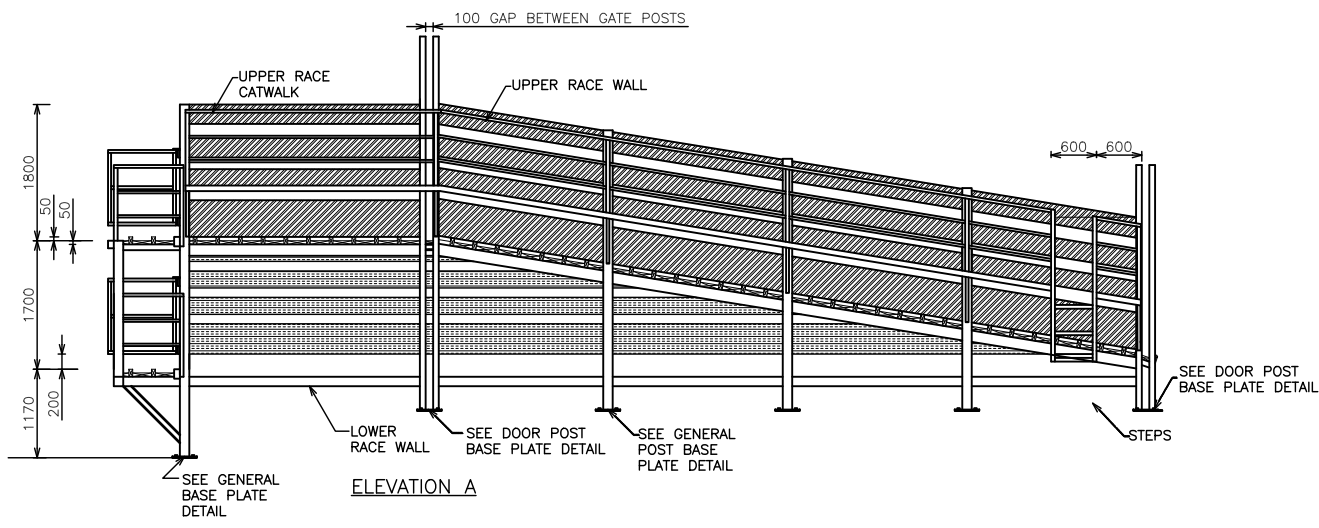
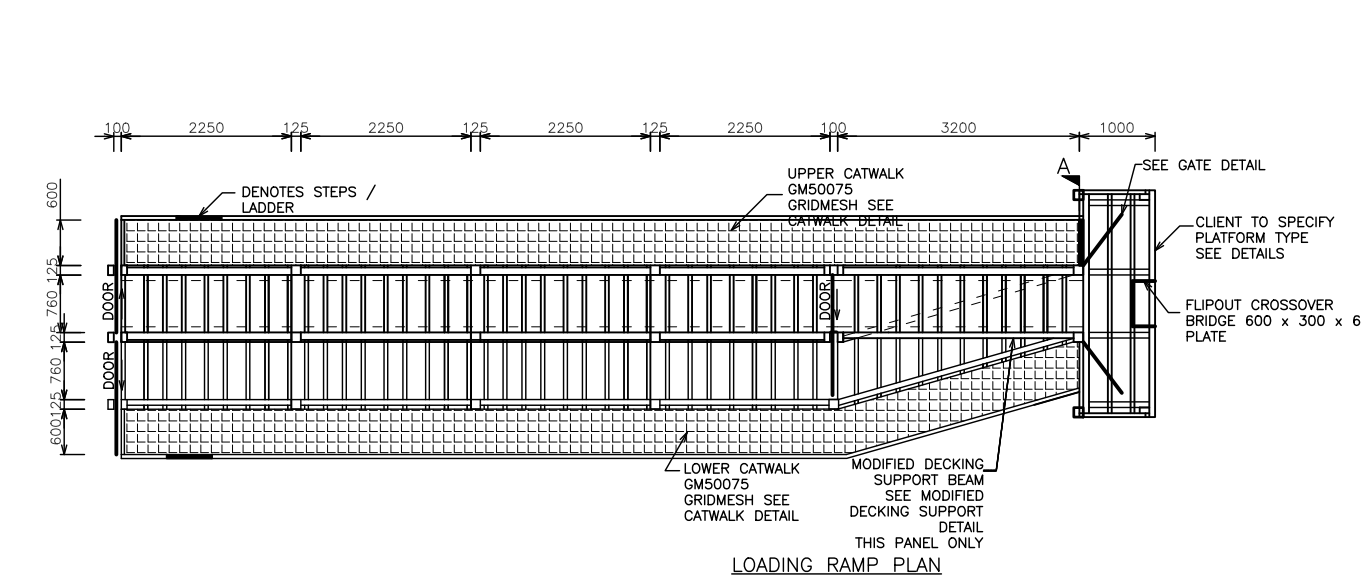
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MURWEH SHIRE COUNCIL
MORVEN FREIGHT HUB
LIVESTOCK TRANSPORT INTERCHANGE

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Designed	FJA	Checked	
Drawn	FJA	Checked	
Approved			
Job Number		Drawing Number	Issue
192169		19216909	A
Number	09	of	21
Drawings	Full Size A3		

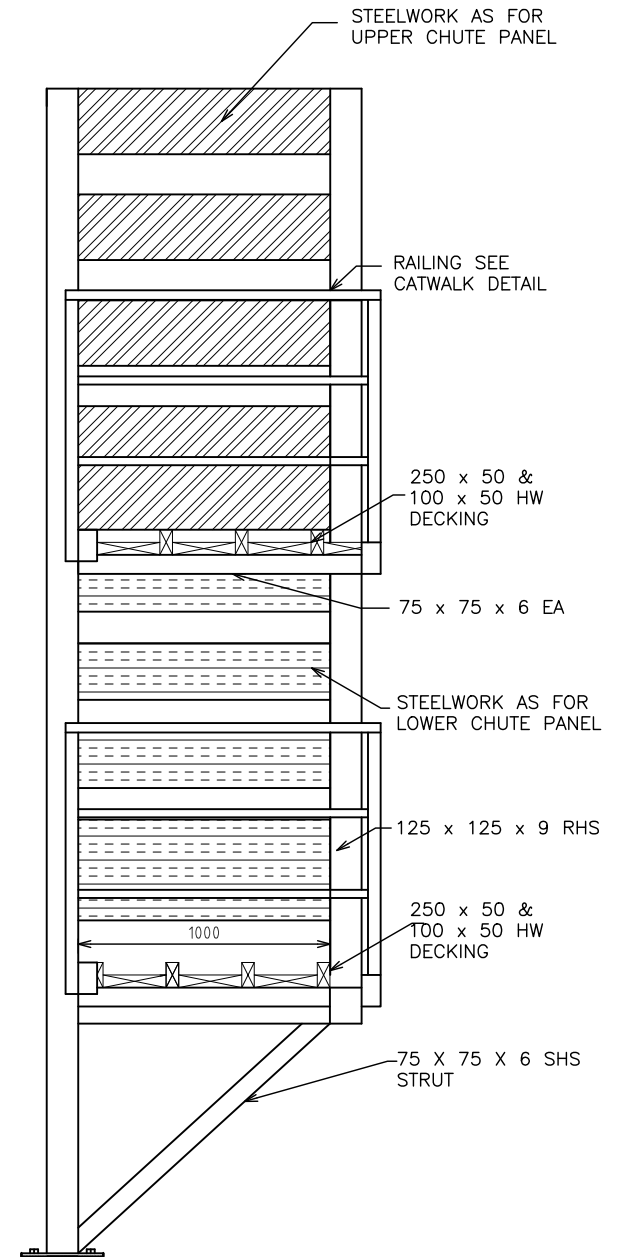
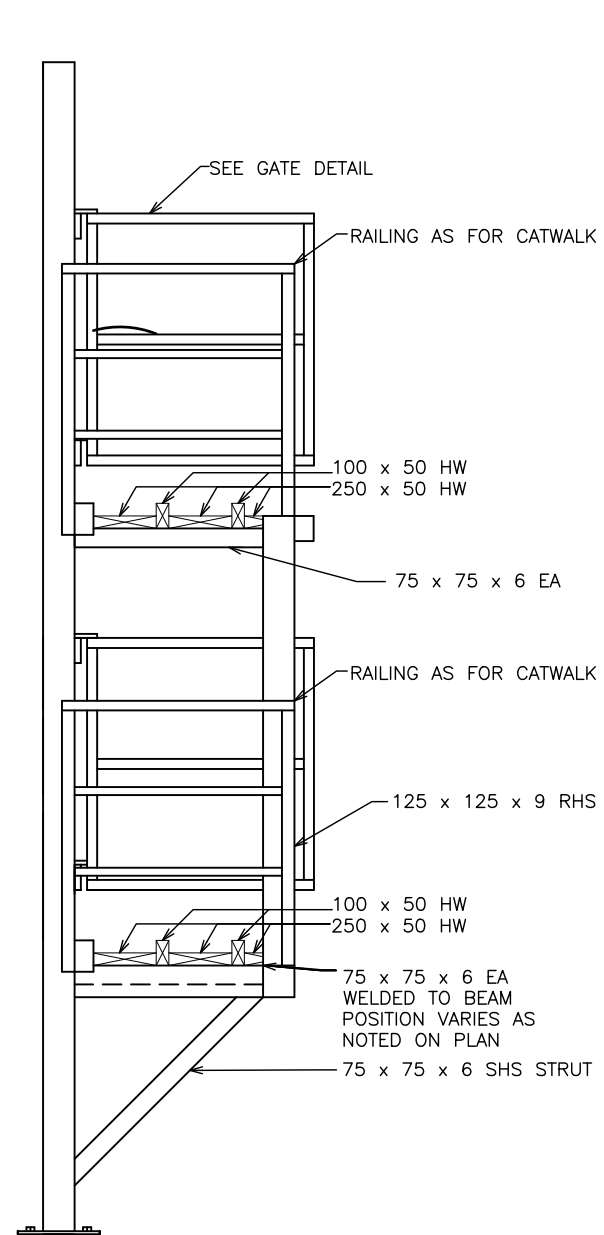
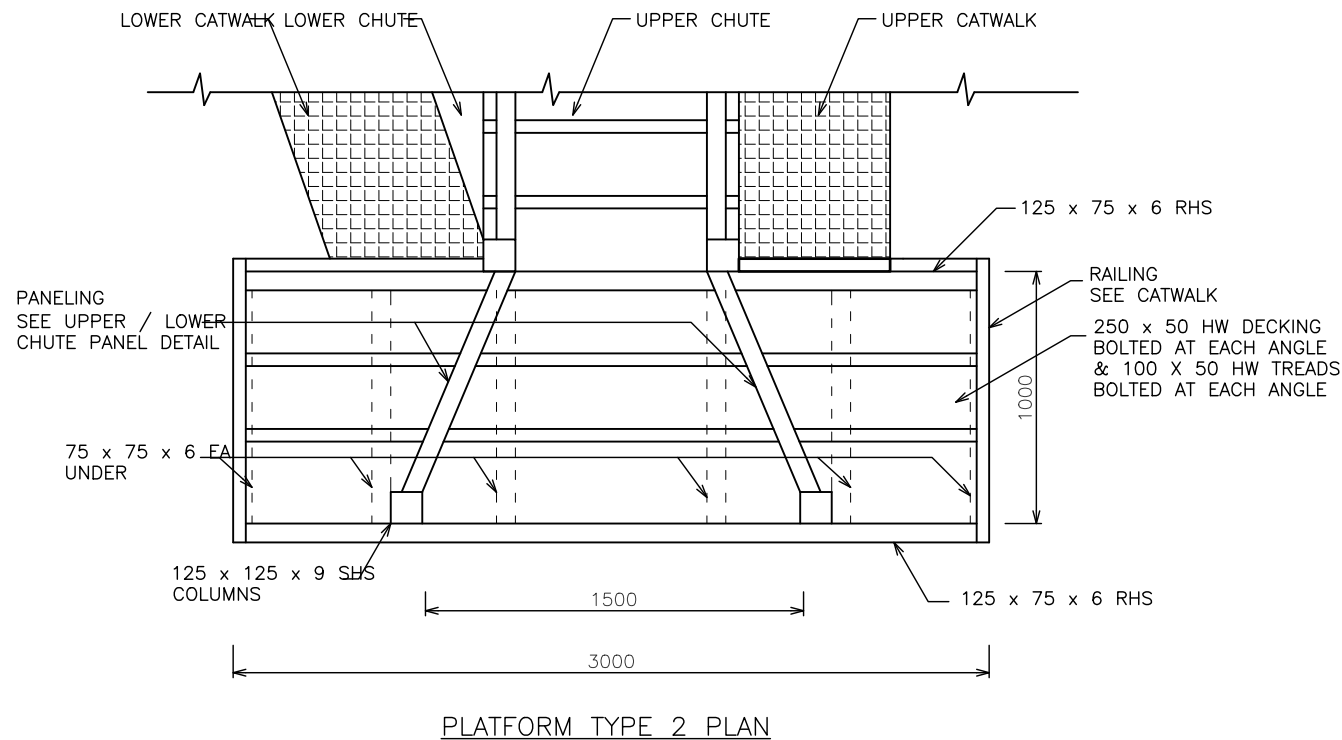
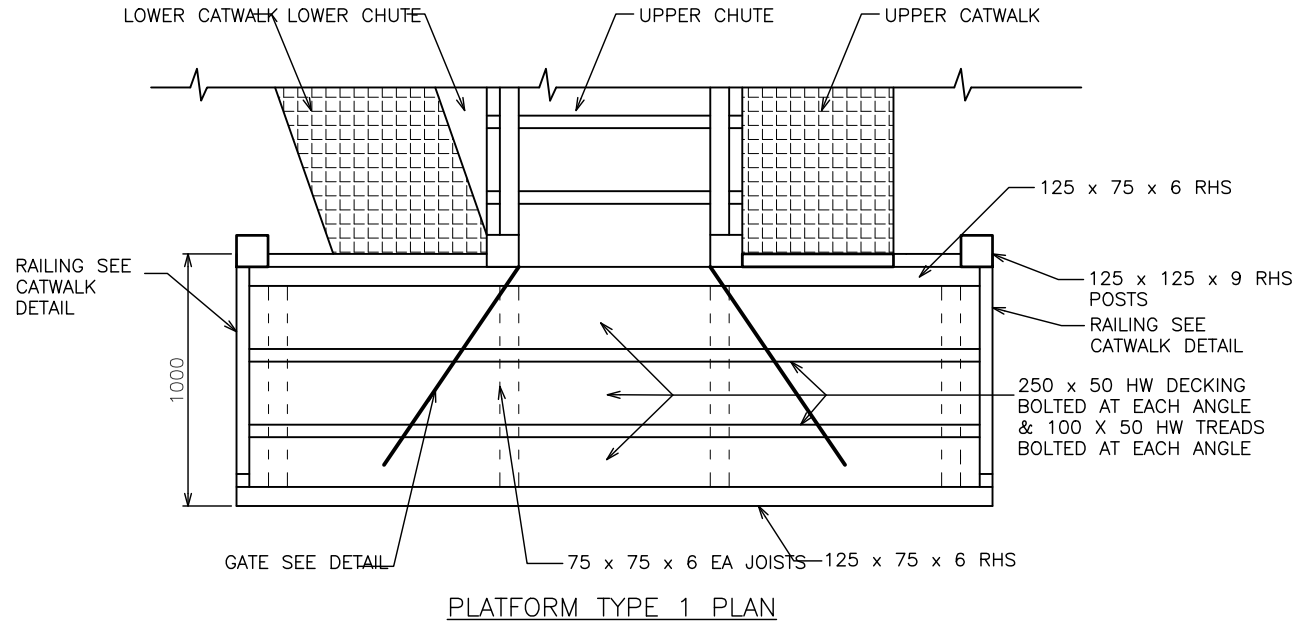
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				Drawn FJA	Checked	Number 10 of 21 Drawings						Full Size A3				
A	ISSUED FOR CONSTRUCTION	07/2020														

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NOTE:
CONTR
CONFIR
WHICH
USE.

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PLATFORM TYPE 1 SIDE ELEVATION

PLATFORM TYPE 2 SIDE ELEVATION

Issue Status/Amendment	Date
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MURWEH SHIRE COUNCIL
MORVEN FREIGHT HUB
LIVESTOCK TRANSPORT INTERCHANGE

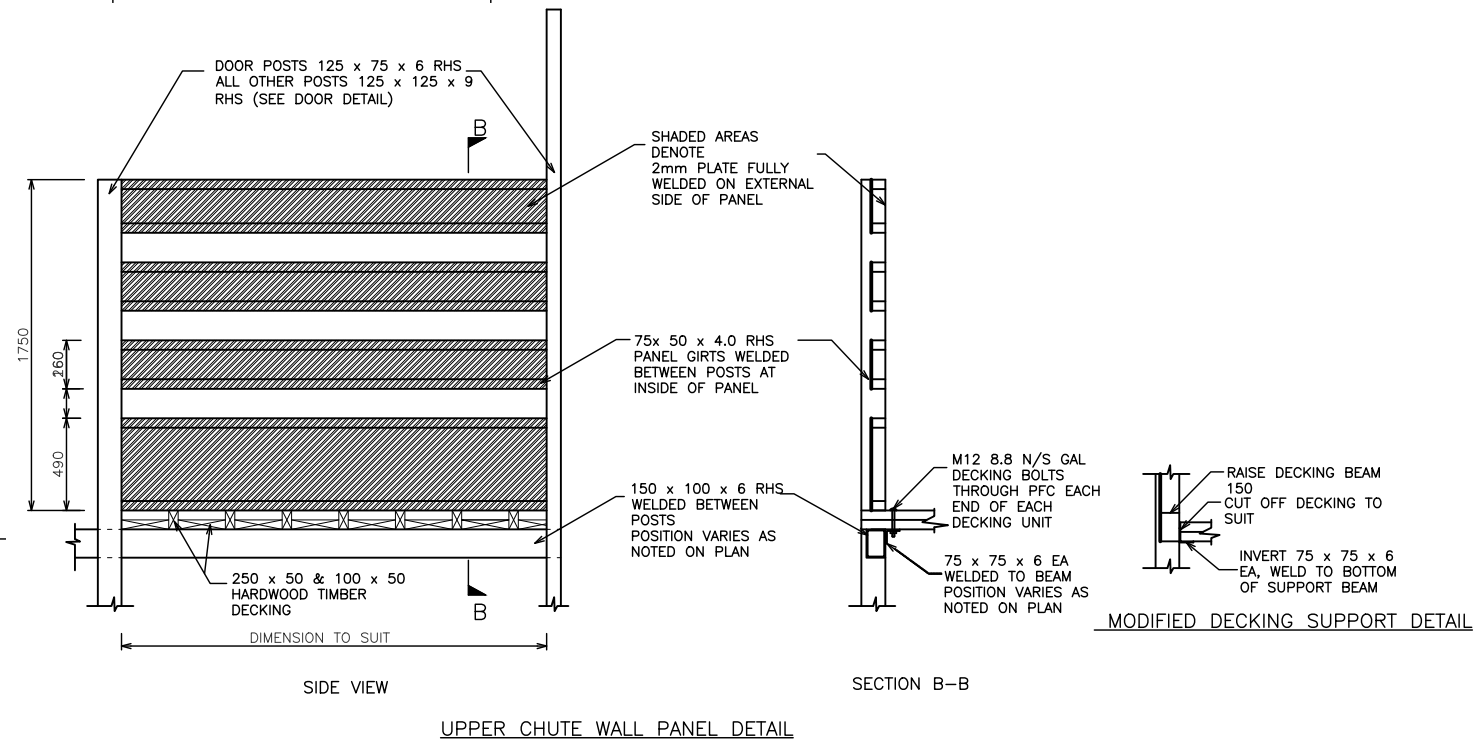
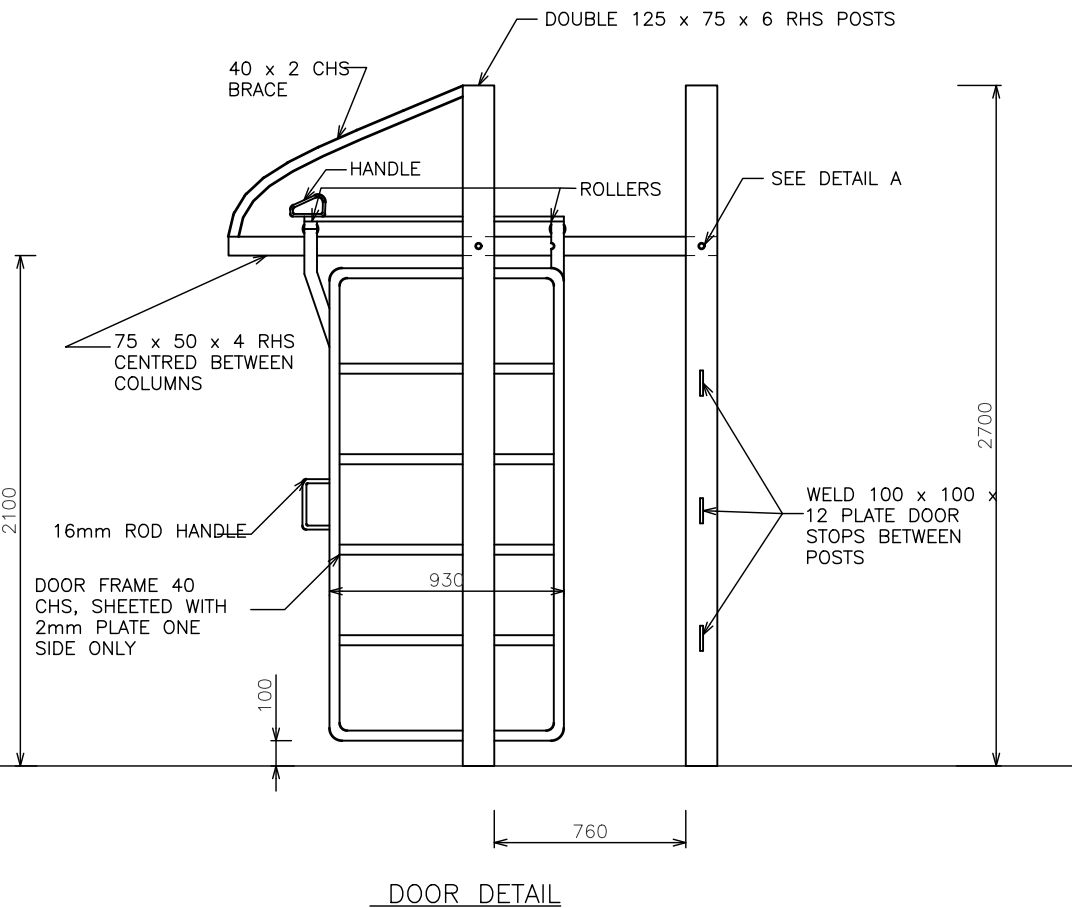
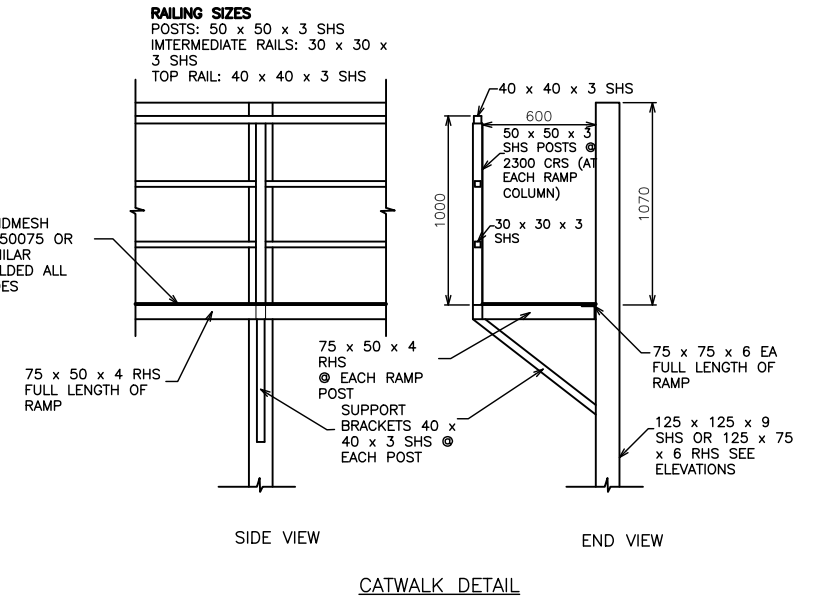
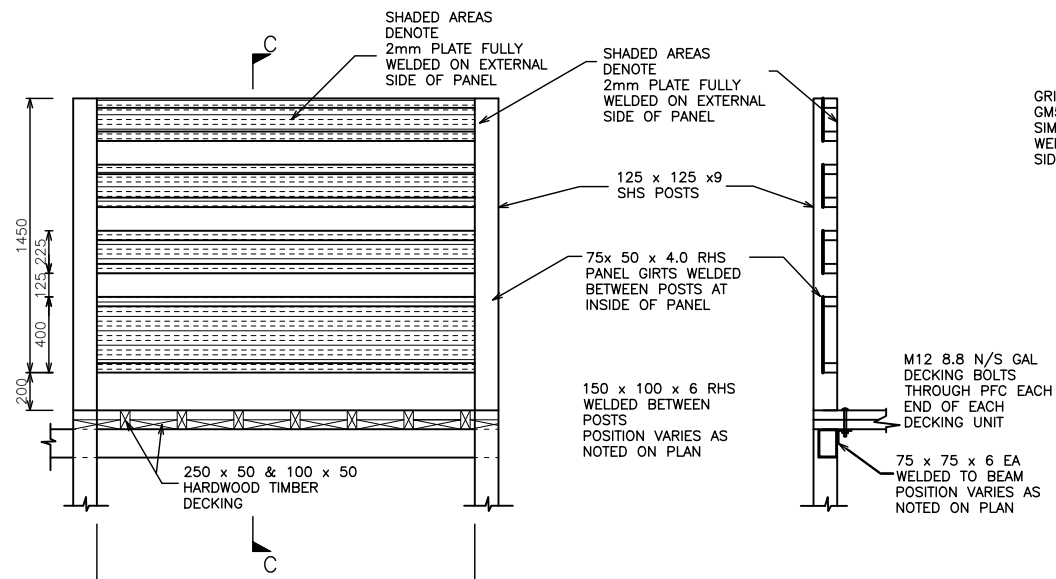
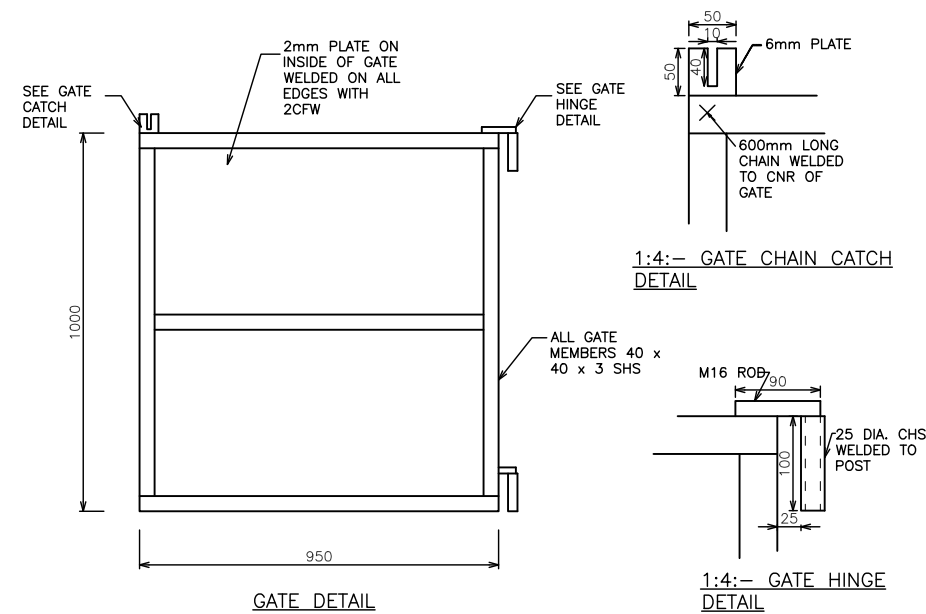
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Drawn	FJA	Checked	
Approved			

CATTLE RAMP PLATFORM
DETAIL

Job Number	Drawing Number	Issue
192169	19216911	A
Number 11 of 21	Drawings	Full Size A3

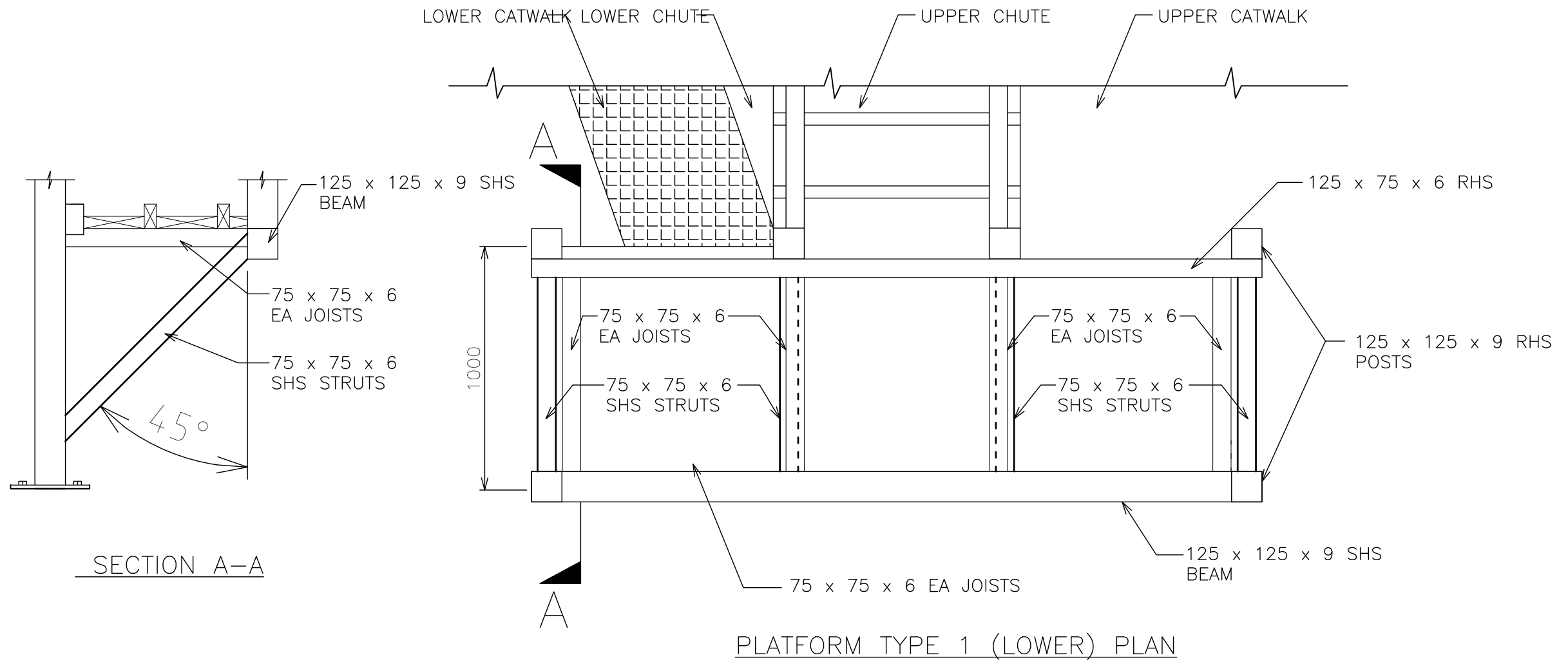
CAD REF:- \\BAA-ROMA-DC-01\documents\jobs\192169 - MURWEH SC - Morven Freight Hub\Drawings\192169\192169 - Rails Pens Ramps Plans and Details - Issue A.dwg



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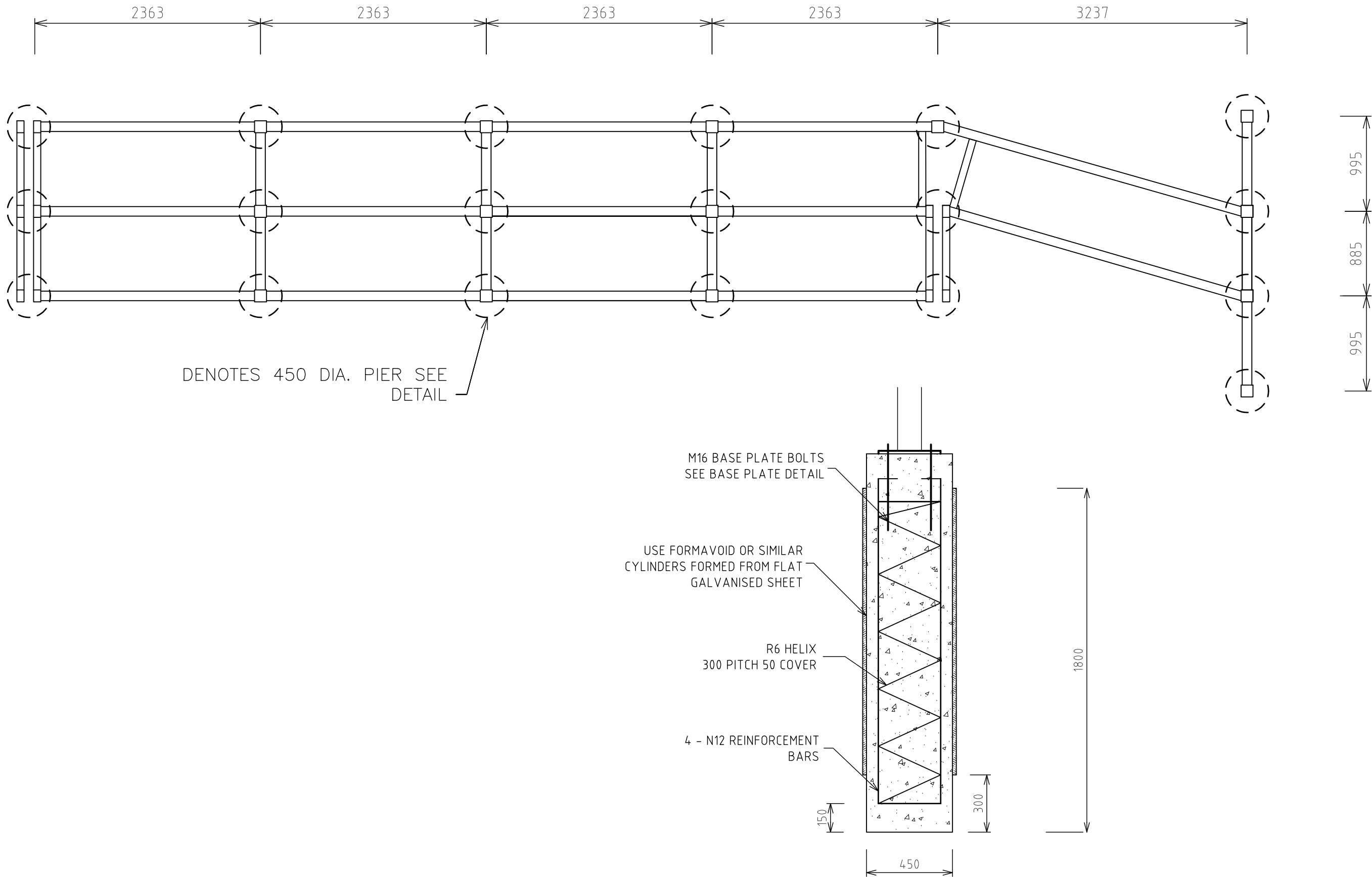
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A	ISSUED FOR CONSTRUCTION	07/2020														

CAD REF:- \\BAA-ROMA-DC-01\documents\jobs\192169 - MURWEH SC - Morven Freight Hub\Drawings\192169\192169 - Rails Pens Ramps Plans and Details - Issue A.dwg



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A	ISSUED FOR CONSTRUCTION	07/2020							

CONCRETE NOTES

- C1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600.
- C2. SIZES OF CONCRETE ELEMENTS DO NOT INCLUDE THICKNESS OF APPLIED FINISHES.
- C3. NO HOLES, CHASES OR EMBEDMENT OF PIPES OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE MADE IN CONCRETE MEMBERS WITHOUT APPROVAL.
- C4. CONSTRUCTION JOINTS SHALL BE USED ONLY WHERE SHOWN OR APPROVED.
- C5. SPLICES IN REINFORCEMENT SHALL ONLY OCCUR IN POSITIONS AS SHOWN OR APPROVED
- C6. WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED WITHOUT APPROVAL. TACK WELDING FOR POSITIONING IS ACCEPTABLE.
- C7. ALL REINFORCEMENT SHALL BE SUPPORTED ON APPROVED BAR CHAIRS AT NOT GREATER THAN 800mm CENTRES BOTH WAYS. BARS SHALL BE TIED AT ALTERNATE INTERSECTIONS.
- C8. REINFORCEMENT SYMBOLS:
Y – HOT ROLLED DEFORMED BARS TO AS 1302 GRADE 400.
R – STRUCTURAL GRADE PLAIN ROUND BAR TO AS 1302
F – HARD DRAWN STEEL WIRE REINFORCING FABRIC TO AS 1304.
- C9. ALL COGS TO BARS 200mm U.N.O.
- C10. FORMWORK SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH AS 1509.
- C11. ALL REINFORCEMENT LAPS ARE TO BE A MINIMUM OF:
– BARS – 40 BAR DIAMETERS
– TRENCH MESH – 40 MAIN BAR DIAMETERS
– SLAB FABRIC – TWO WIRES OF ONE SHEET TO OVERLAP CORRESPONDING BARS OF INVERTED SECOND SHEET
- C12. COVER TO REINFORCEMENT SHALL BE
50mm FOOTINGS IN UNPROTECTED GROUND U.N.O.
50mm FOOTINGS IN PROTECTED GROUND U.N.O.
50mm TOP COVER SLAB FABRIC U.N.O.
- C13. CONCRETE COMPONENTS AND QUALITY SHALL BE
FOOTINGS – CLASS N32 (SLUMP 80) OR AS SHOWN
SLABS – CLASS N32 OR AS SHOWN (SLUMP 80)
- C14. ADDITIVES CONTAINING CALCIUM CHLORIDE SHALL NOT BE USED
- C15. SUPERPLASTICERS MAY BE USED AT THE DISCRETION OF THE ENGINEER.
- C16. EXPOSED CONCRETE SURFACES SHALL BE CURED FOR A MINIMUM PERIOD OF SEVEN (7) DAYS BY EITHER COVERING WITH PLASTIC SHEETING, CONTINUOUS WATER CURING OR APPLICATION OF APPROVED CURING COMPOUND.
- C17. THE DESIGN MINIMISES SHRINKAGE CRACKS, CRACKS MAY STILL OCCUR AS A NATURAL CHARACTERISTIC OF CONCRETE.

PIER NOTES

- P1. THE BUILDING CONTRACTOR IS TO ENSURE THE PIER BORE HOLES ARE BORED TO DESIGNATED DIAMETER AND DEPTH.
- P2. WHERE BORE REFUSAL IS ATTAINED BEFORE THE DESIGNATED DEPTH THE ADVICE OF THE ENGINEER IS TO BE SOUGHT.
- P3. THE SIDES OF HOLES ARE TO BE SMOOTH AND ANY IRREGULARITIES ARE TO BE REPAIRED. THE BORE HOLE IS TO BE LINED WITH 'FORMATUBE' OR EQUIVALENT IF SMOOTH SIDES CANNOT BE MAINTAINED.
- P4. THE BASE OF THE HOLE IS TO BE CLEARED OF ANY LOOSE MATERIAL AND ANY IRREGULARITY OF THE SURFACE IS TO BE REMOVED.
- P5. THE BUILDING CONTRACTOR IS TO ENSURE COVER IS MAINTAINED TO ALL REINFORCEMENT.
- P6. CONCRETE CLASS SHALL BE N25 U.N.O.
- P7. WHERE HEIGHT OF FALL OF CONCRETE DURING POURING EXCEEDS 2000mm A DROP CHUTE SHALL BE USED.

GENERAL NOTES

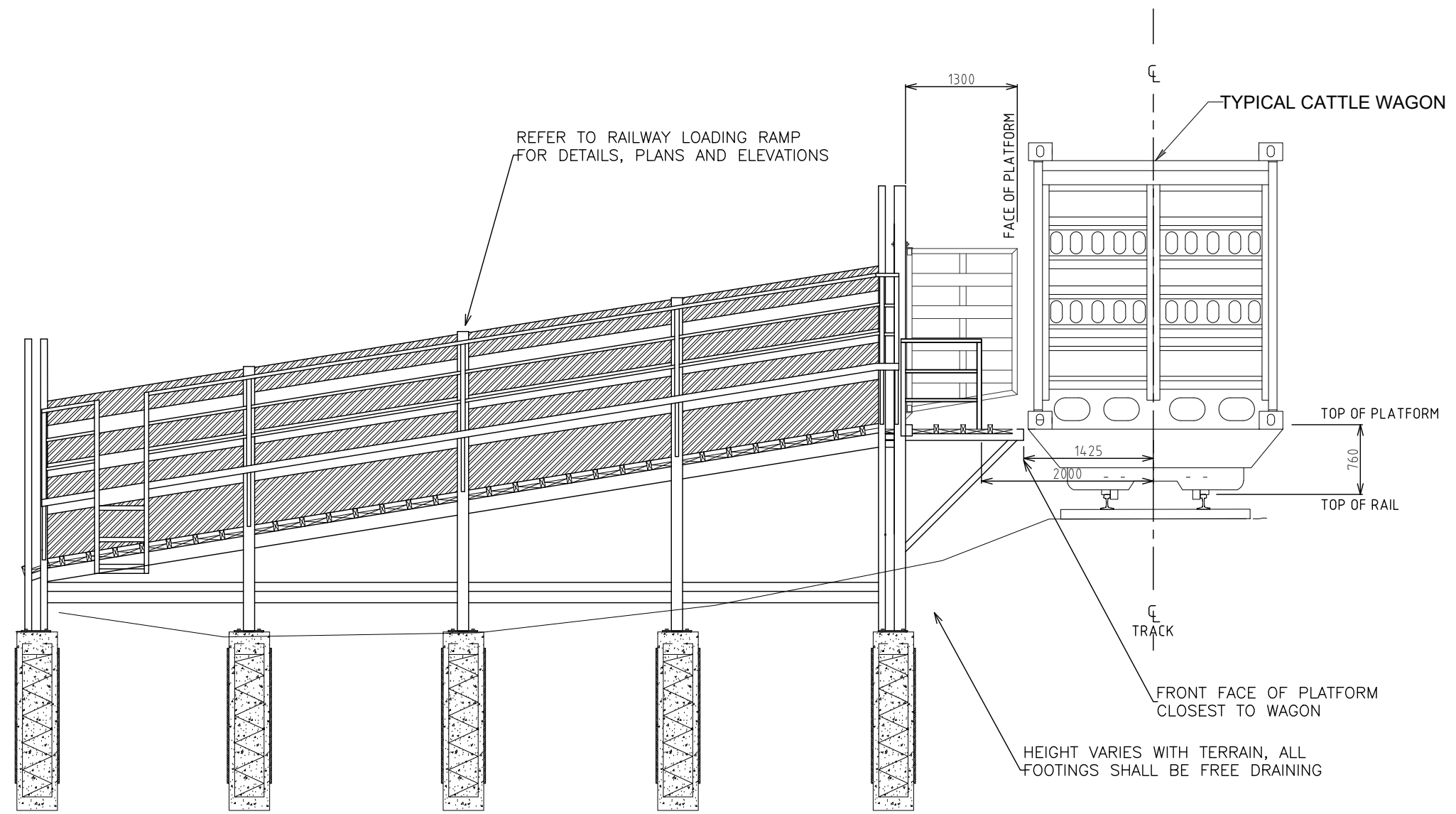
- G1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS. OTHER CONSULTANTS DRAWINGS AND THE SPECIFICATION AND WITH OTHER WRITTEN INSTRUCTIONS.
- G2. FIGURED DIMENSIONS TAKE PREFERENCE OVER SCALE. DO NOT SCALE FROM THESE DRAWINGS. IF IN DOUBT – ASK.
- G3. THE BUILDING CONTRACTOR IS SOLELY RESPONSIBLE FOR THE CORRECT SETTING OUT AND THE EXECUTION OF THE WORK. ALL DIMENSIONS EXCEPT BASIC STRUCTURAL MEMBER SIZES ARE SHOWN FOR THE CONTRACTOR'S CONVENIENCE ONLY. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AGAINST DETAILS PREPARED BY SUBCONTRACTORS OR REQUIRED BY ANY TRADE.
- G4. THE BUILDING CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTING AND MAINTAINING SITE DRAINAGE IN ACCORDANCE WITH THE SITE PREPARATION REQUIREMENTS DRAWING.
- G5. THE BUILDING CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE SITE AND STRUCTURE IN A SAFE CONDITION AND FOR MINIMISING THE IMPACT OF EROSION AND SEDIMENTATION ON ADJOINING PROPERTIES AND/OR PUBLIC INFRASTRUCTURE.
- G6. WHERE CONDITIONS ENCOUNTERED ON SITE DIFFER FROM THAT WHICH HAS BEEN DOCUMENTED AND/OR WHERE CHANGES TO THE DETAILS ARE PROPOSED, ADVICE SHOULD BE SOUGHT FROM THE ENGINEER. NO LIABILITY WILL BE ACCEPTED FOR CHANGES MADE BY THE BUILDING CONTRACTOR WHICH HAVE NOT BEEN APPROVED IN WRITING.
- G7. WORKMANSHIP AND MATERIAL SHALL BE IN ACCORDANCE WITH THE RELEVANT CURRENT S.A.A. CODES INCLUDING ALL AMENDMENTS AND THE LOCAL STATUTORY AUTHORITIES EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.

STEELWORK NOTES

- S1. STEELWORK TO BE FABRICATED AND ERECTED IN ACCORDANCE WITH:
AS 4100 – STEEL STRUCTURES
AS 1554 – S.A.A. STRUCTURAL STEEL WELDING CODE
S.A.A. MA 1 – MANUAL ON STEEL STRUCTURES
- S2. BOLTS SHALL BE 8.8/S U.N.O. BOLTS
DESIGNATED 4.6/S SHALL BE COMMERCIAL GRADE BOLTS TO AS 1111 AND AS 1112, TIGHTENED TO SNUG TIGHT. BOLTS DESIGNATED TO 8.8/S SHALL BE HIGH STRENGTH STEEL BOLTS TO AS 1252 TIGHTENED TO A SNUG TIGHT FIT.
- S3. THE CONTRACTOR SHALL PROVIDE SUCH TEMPORARY BRACING AS IS NECESSARY TO STABILIZE THE STRUCTURE DURING ERECTION.
- S4. THE ENDS OF ALL TUBULAR MEMBERS SHALL BE SEALED WITH A 6mm PLATE AND CONTINUOUS FILLET WELD U.N.O.
- S5. BEFORE FABRICATION COMMENCES THE CONTRACTOR SHALL SUBMIT COPIES OF SHOP DRAWINGS TO THE SUPERINTENDENT FOR REVIEW. REVIEW DOES NOT INCLUDE CHECKING OF DIMENSION.
- S6. SURFACE TREATMENT SHALL BE AS NOTED ON THE DRAWINGS AND AS SPECIFIED.
- S7. ALL DAMAGED GALVANISED COATING IS TO BE IMMEDIATELY REPAIRED WITH "GALVIT" OR EQUAL.
- S8. WELDS SHALL BE 6mm CONTINUOUS FILLET U.N.O.
- S9. ALL BUTT WELDS SHALL BE COMPLETED BY A QUALIFIED PERSON
- S10. ALL BUTT WELDS SHALL BE FULL PENETRATION
- S11. ALL PLATES AND CLEATS SHALL BE 8mm THICK U.N.O.
- S12. STANDARD CONNECTION DETAILS SHALL CONFIRM WITH A.I.S.C. STANDARD STRUCTURAL CONNECTIONS U.N.O.

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A	ISSUED FOR CONSTRUCTION	07/2020					

CAD REF:- \\BAA-ROMA-DC-01\documents\jobs\192169 - MURWEH SC - Morven Freight Hub\Drawings\192169\192169 - Rails Pens Ramps Plans and Details - Issue A.dwg



CROSS SECTION RAILWAY CORRIDOR

PROPOSED CATTLE LOADING RAMP DESIGN ALTERNATIVE TO QR STANDARD DRG 2054. ALLOWS UNIMPEDED STORMWATER FLOWS

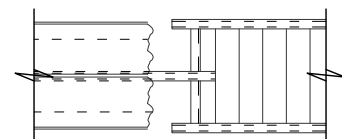
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				Drawn FJA	Checked						
				Approved					Job Number 192169	Drawing Number 19216916	Issue A
A	ISSUED FOR CONSTRUCTION	07/2020						Number 16 of 21	Drawings	Full Size A3	

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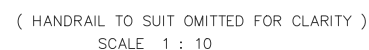
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				Drawn FJA		Checked					
				Approved		Job Number 192169		Drawing Number 19216917		Issue A	
A	ISSUED FOR STRUCTION	07/2020				Number 17 of 21 Drawings		Full Size A3			
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SCALE 1 : 20

SCALE 1 : 20

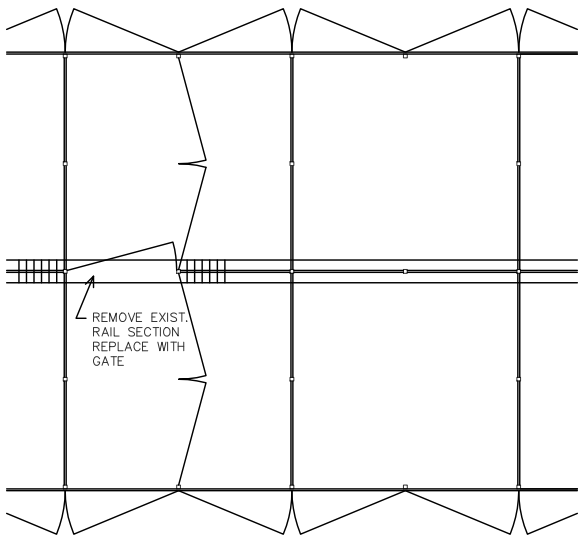


CAD REF:- CATWALK AND HANDRAILING DETAILS

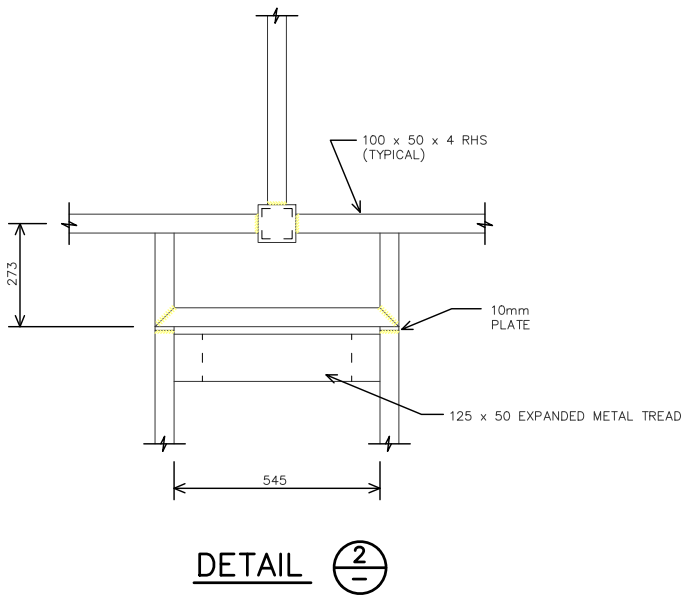


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Designed	FJA	Checked																																					
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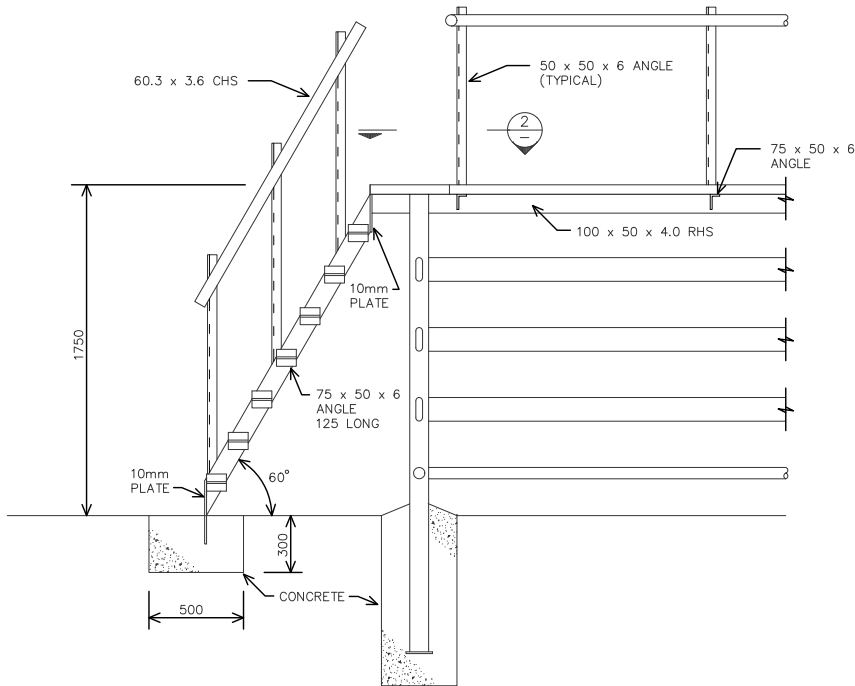
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TYPICAL HALF YARD PLAN



DETAIL 2

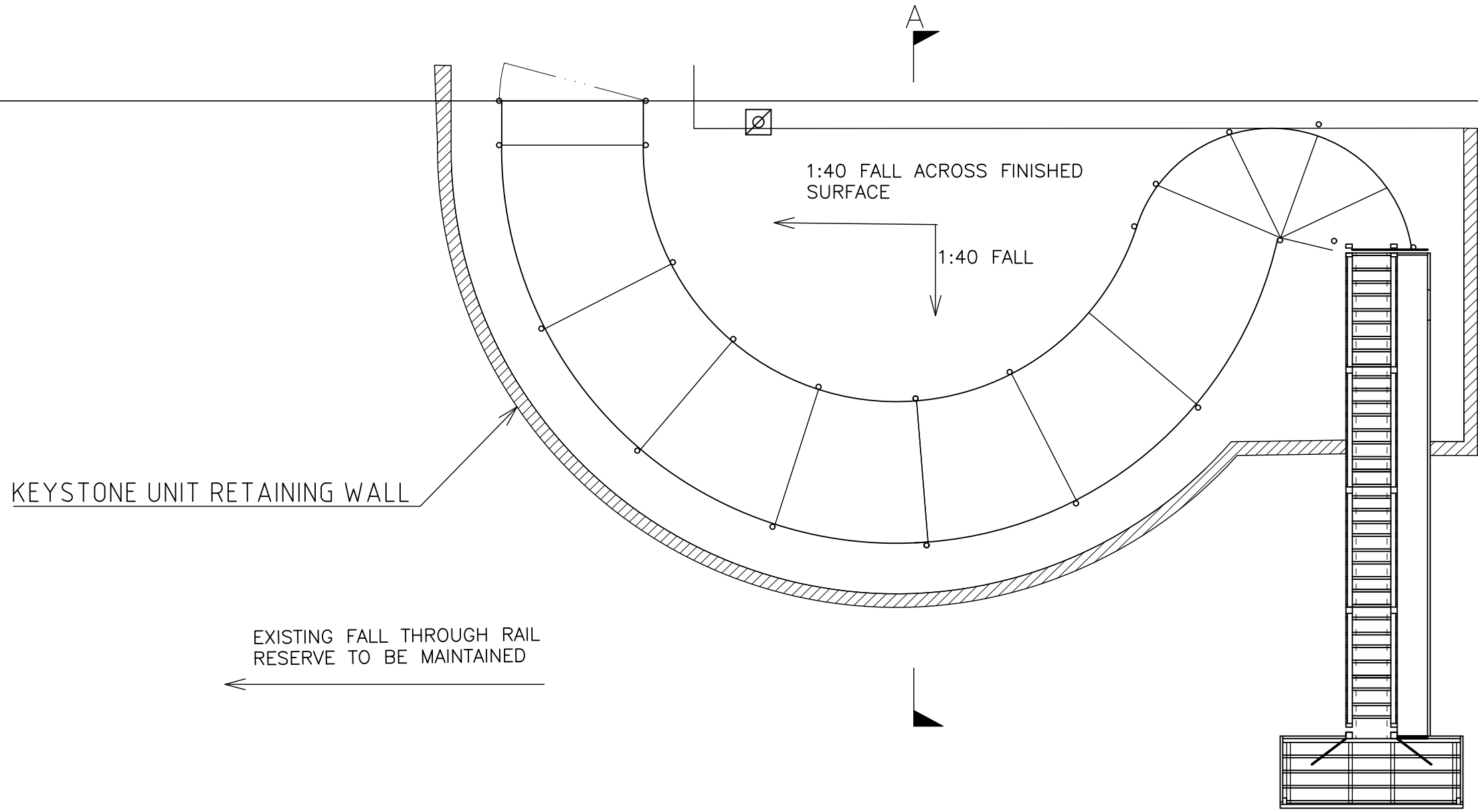


ACCESS TO AGENTS' CATWALK

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& ASSOCIATES
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MURWEH SHIRE COUNCIL
MORVEN FREIGHT HUB
LIVESTOCK TRANSPORT INTERCHANGE

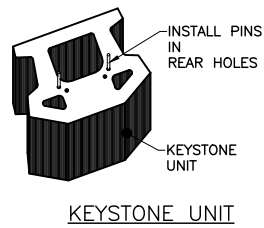
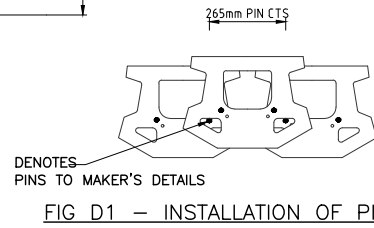
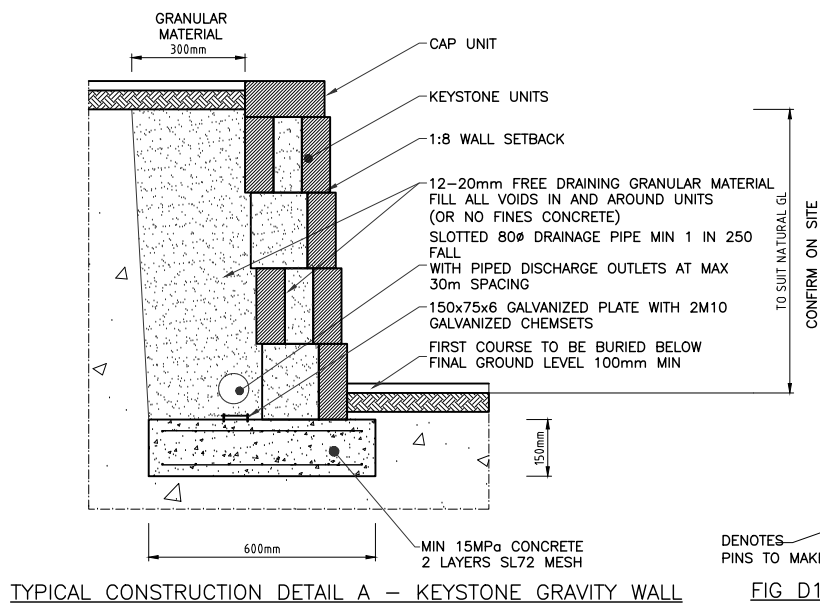
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Designed	FJA	Checked
Drawn	FJA	Checked
Approved		

KEYSTONE RETAINING WALL
FOR RAIL LOADING RAMP

Job Number		Drawing Number		Issue
192169		19216920		A
Number	20	of	21	Drawings
Full Size A3				

CAD REF:- \\BAA-ROMA-DC-01\documents\jobs\192169 - MURWEH SC - Morven Freight Hub\Drawings\192169\192169 - Rails Pens Ramps Plans and Details P5_recover.dwg



- 3 UNIT 90° CORNER : r = 900mm
- 4 UNIT 90° CORNER : r = 1250mm
- 5 UNIT 90° CORNER : r = 1540mm
- 6 UNIT 90° CORNER : r = 1830mm
- 7 UNIT 90° CORNER : r = 2120mm

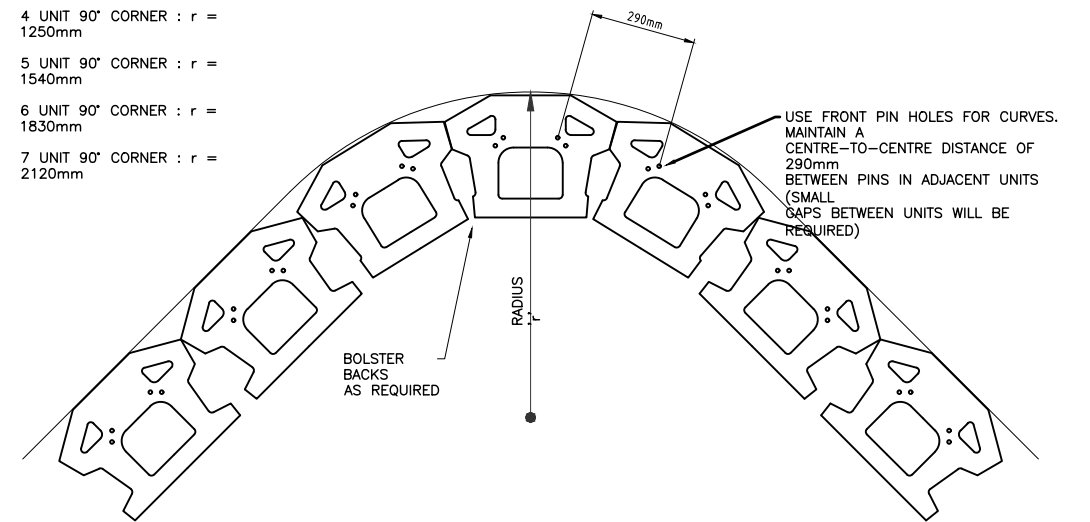
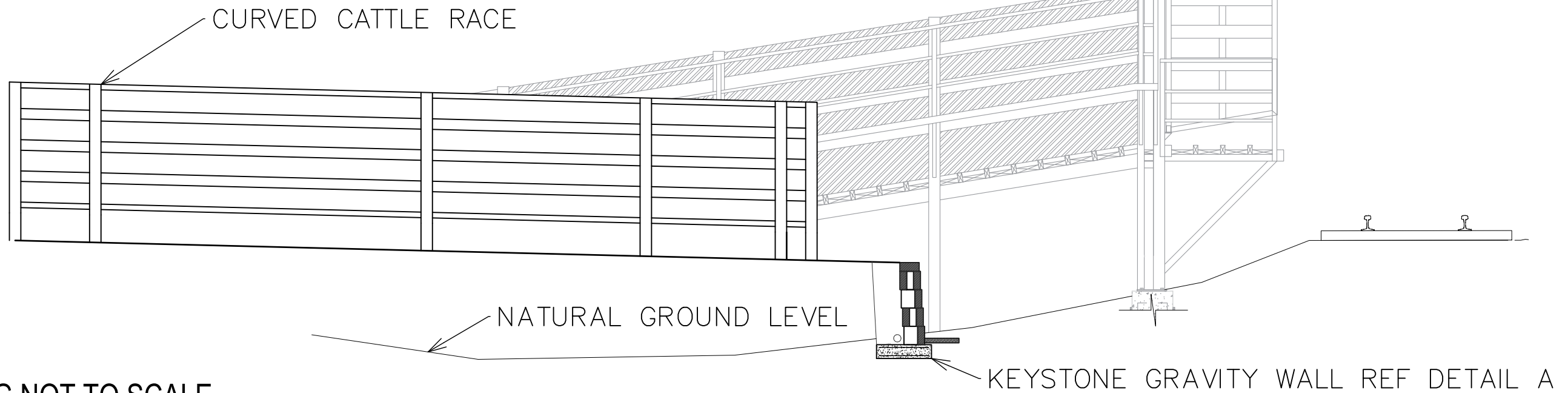


FIG 1: CONVEX CURVE



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				Drawn FJA	Checked							
				Approved								
A	ISSUED FOR CONSTRUCTION	07/2020						Job Number 192169		Drawing Number 19216921		Issue A
							Number	21	of	21	Drawings	Full Size A3

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