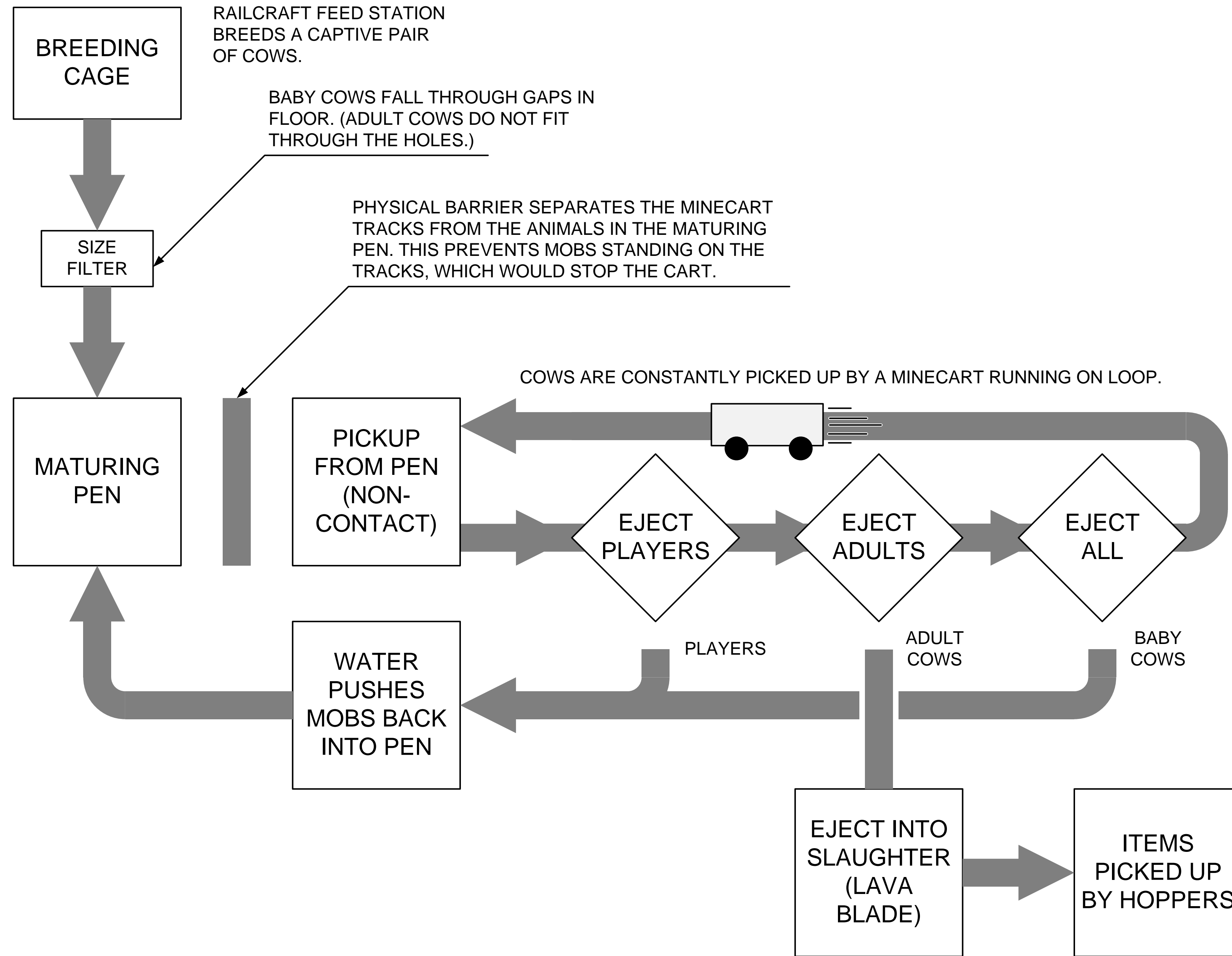


RAILCRAFT COW FARM

THIS IS A DETAILED DESIGN FOR A COW FARM.
 RAILCRAFT IS THE ONLY MOD USED.
 DESIGN INTENT IS FOR A MACHINE WITH FUN MOVING PARTS AND CLEARLY VISIBLE OPERATION.
 I.E. AVOID THE "ONE BLOCK WONDER" SOLUTIONS USING MINEFACTORY RELOADED CHRONOTYPERS ETC.

BLOCK DIAGRAM



BILL OF MATERIALS

VANILLA MINECRAFT

QTY	ITEM
3	HOPPER
3	WATER
3	LAVA
4	(RAIL) TRACK
2	LEVER
6	TRAP DOOR
3	SIGN
1	MINECART
2	ADULT COW
≈150	GLASS

RAILCRAFT

QTY	ITEM
1	FEED STATION
1	DETECTOR - PLAYER
1	DETECTOR - AGE
16	CONTROL TRACK
1	EMBARKING TRACK
3	DISSEMBARKING TRACK

TOOLS

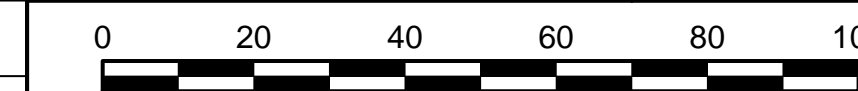
RAILCRAFT CROWBAR

SCHEDULE OF DRAWINGS

SHEET	DRAWING
1	OVERVIEW. BLOCK DIAGRAM. BILL OF MATERIALS.
2	GENERAL ARRANGEMENT
3	ASSEMBLY 1 - MINECART LOOP AND AGE SORTER
4	ASSEMBLY 2 - LAVA BLADE AND MATURING PEN
5	ASSEMBLY 3 - BREEDING CAGE
6	CONSTRUCTION AND COMMISSIONING CHECKLIST

NOT TO SCALE 1 OF 6 SHEET

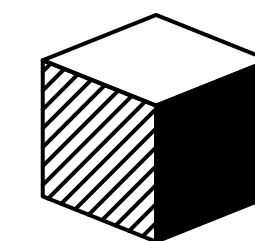
SCALE - ALL DIMENSIONS IN MM U.N.O.



ORIGINAL DRAWING SIZE A1 - 100 MILLIMETRE PAPER SCALE

MODIFIED 2016-09-18 01:44 PRINTED 2016-09-16 21:47

FILE NAME DES-0004R0A Railcraft Cow Farm.vsd



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MINECRAFT 1.7.10 TECH MODS
 RAILCRAFT
 AUTOMATIC COW FARM

DRAWING TITLE
 LWS MC

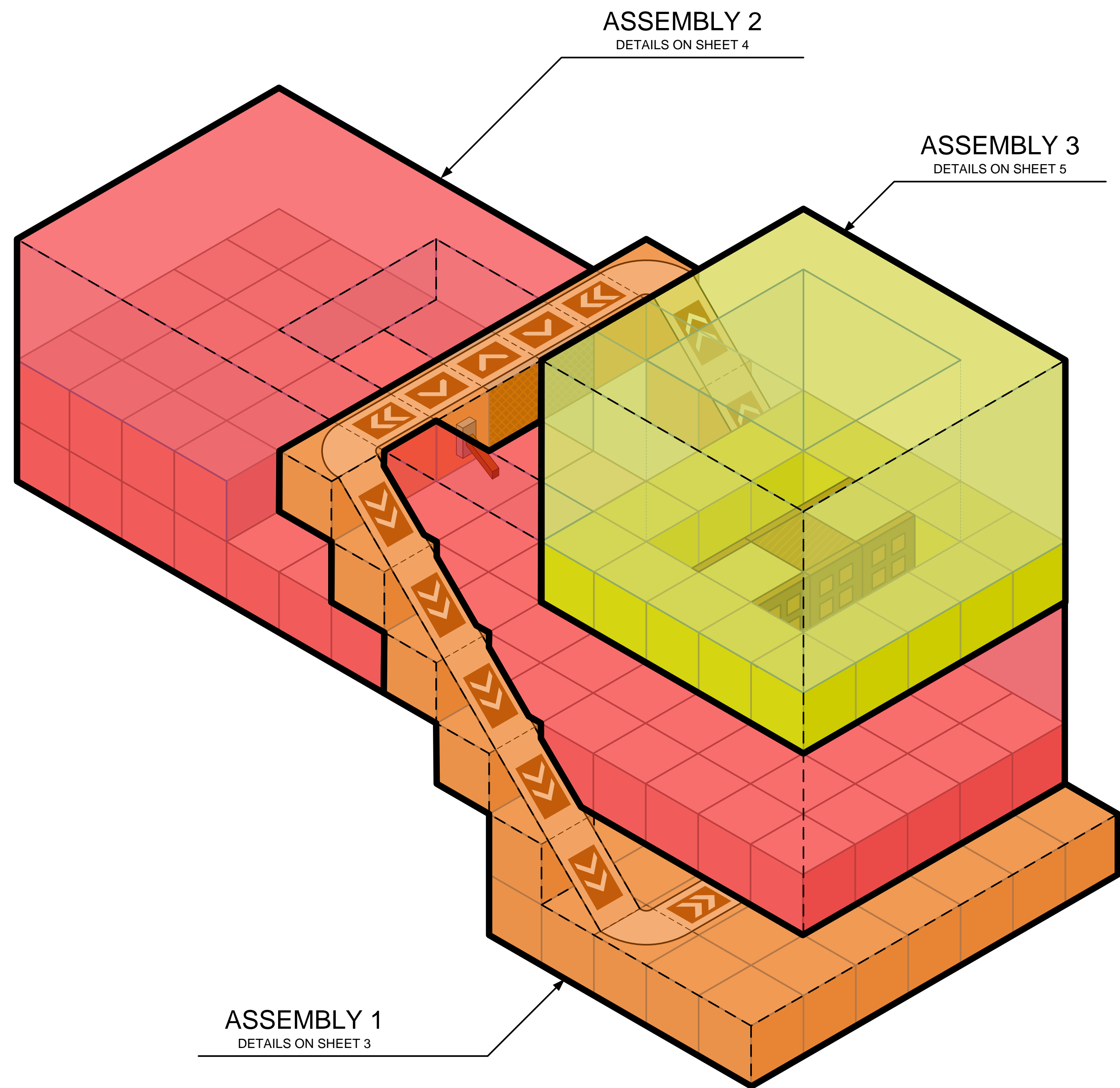
PROJECT NUMBER

DRAWING NUMBER

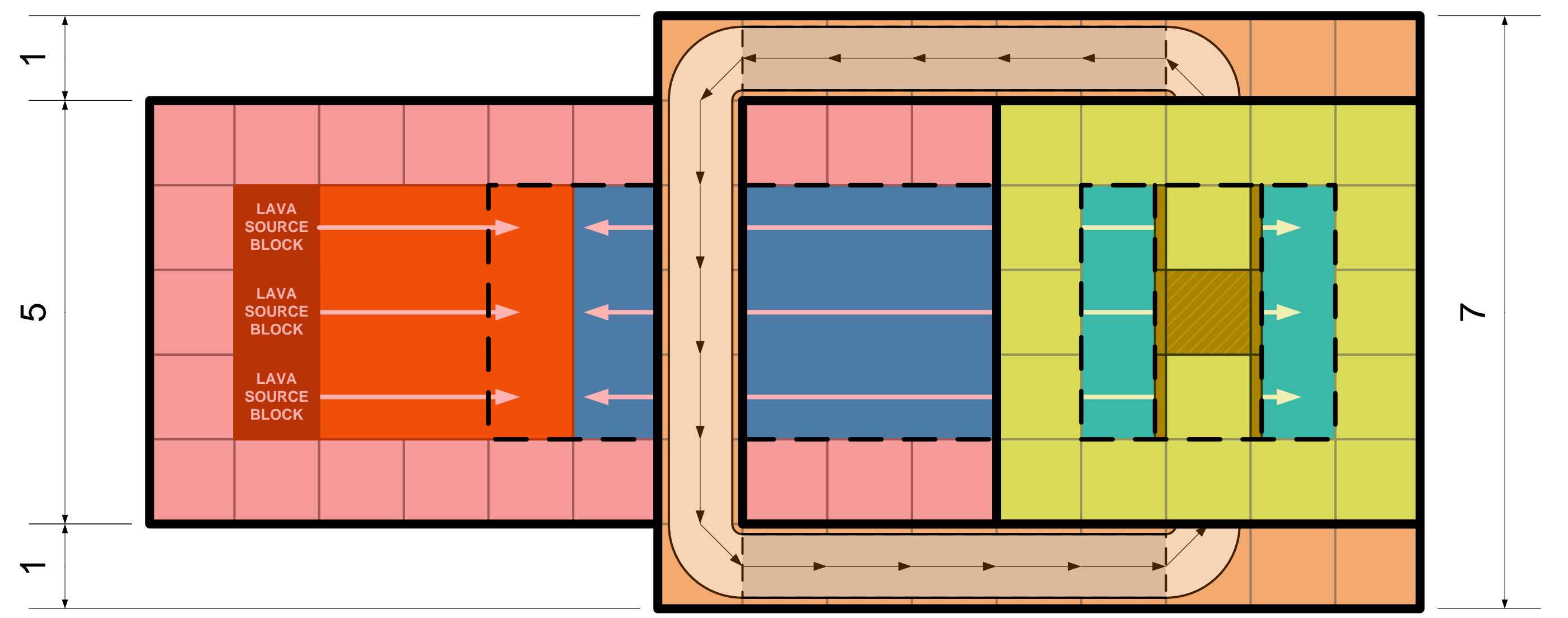
DES-0004

REVISION
 B

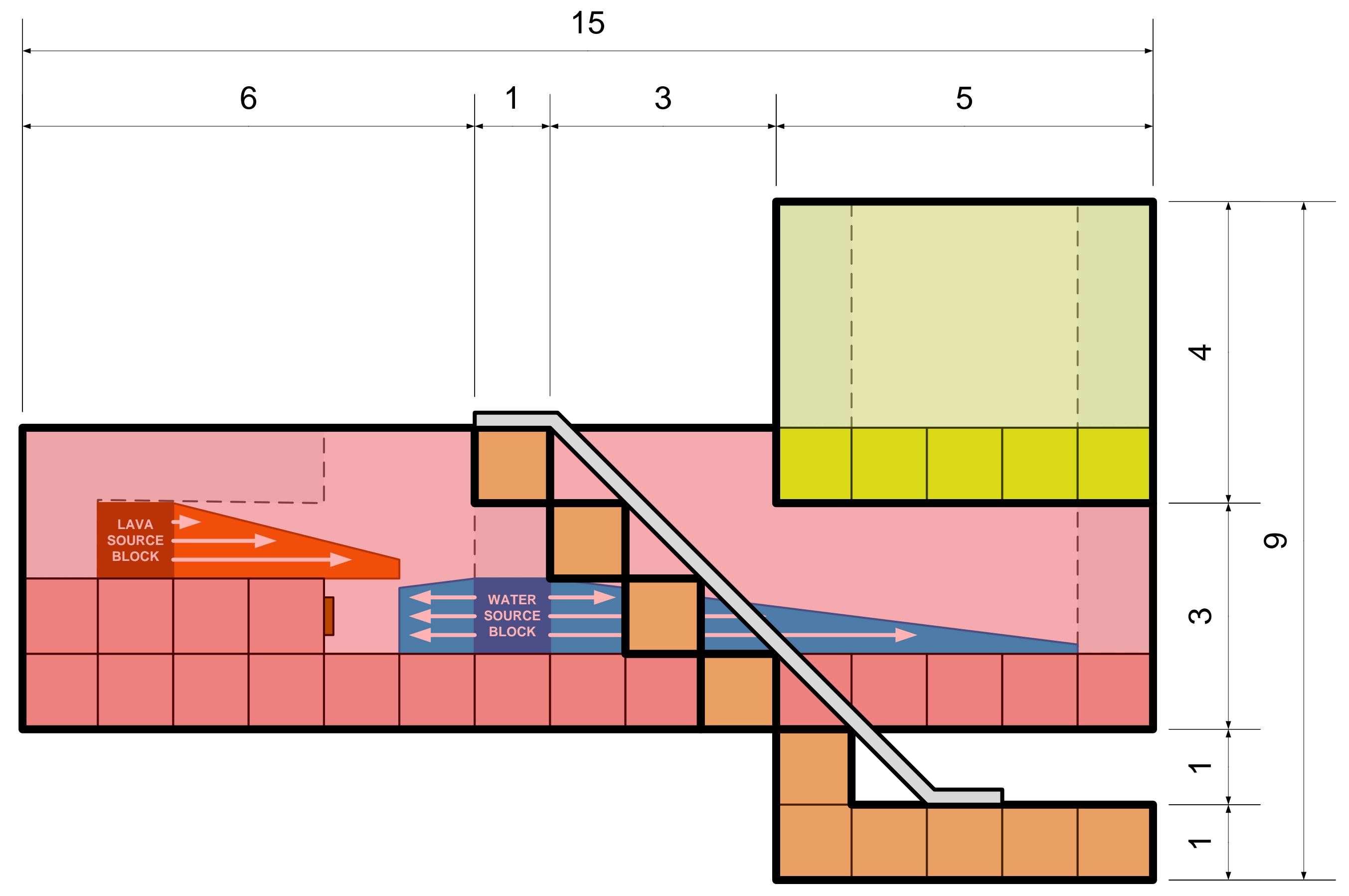
GENERAL ARRANGEMENT



ISOMETRIC
(LAVA AND WATER OMITTED FOR CLARITY)



TOP VIEW



FRONT VIEW

						<p>NOT TO SCALE</p> <p>SCALE - ALL DIMENSIONS IN MM U.N.O.</p> <p>0 20 40 60 80 100</p>				<p>2 OF 6</p> <p>SHEET</p>		<p>LWS INDUSTRIES 42 WALLABY WAY PERTH WA 6000 AUSTRALIA +618 5550 1234 minecraft@penwatch.net</p>		<p>MINECRAFT 1.7.10 TECH MODS RAILCRAFT AUTOMATIC COW FARM</p>			
						<p>ORIGINAL DRAWING SIZE A1 - 100 MILLIMETRE PAPER SCALE</p>				<p>MODIFIED 2016-09-18 01:44</p>		<p>PRINTED 2016-09-16 21:47</p>		<p>DRAWING TITLE</p>			
						<p>FILE NAME DES-0004R0A Railcraft Cow Farm.vsd</p>				<p>PROJECT NUMBER</p>		<p>DRAWING NUMBER</p>		<p>REVISION</p>			
REV.	ISSUE	DRAWN	CHECKED	APPROVED	DATE							LWS MC	DES-0004	B			

ASSEMBLY 1: MINECART LOOP AND AGE SORTER

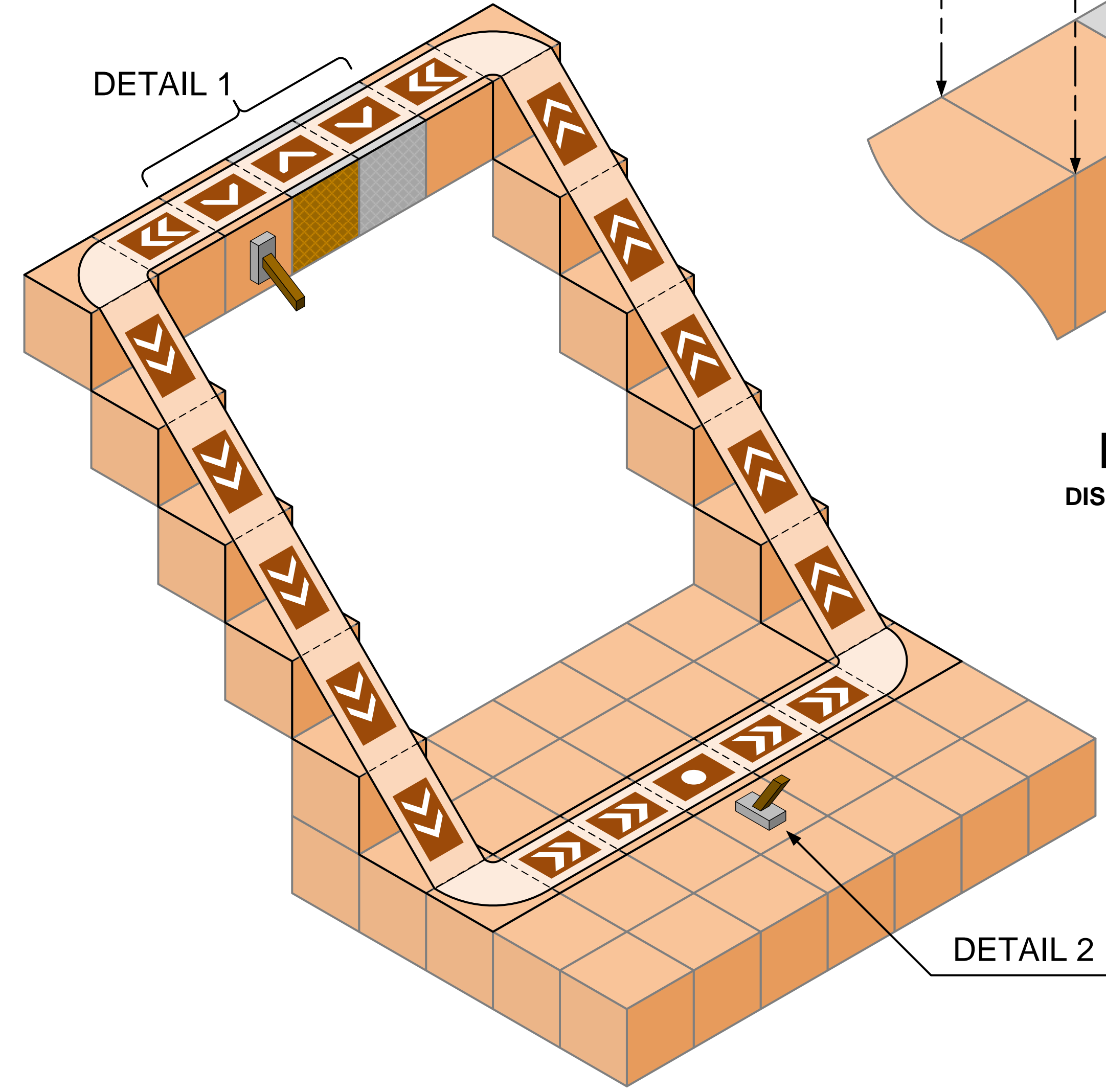
DISEMBARKING TRACKS
MUST POINT IN
DIRECTION SHOWN.
USE CROWBAR TO
ADJUST DIRECTION.

REDSTONE OUTPUT SIDE
MUST BE FACING
UPWARDS.
USE CROWBAR TO
ADJUST
DIRECTION.

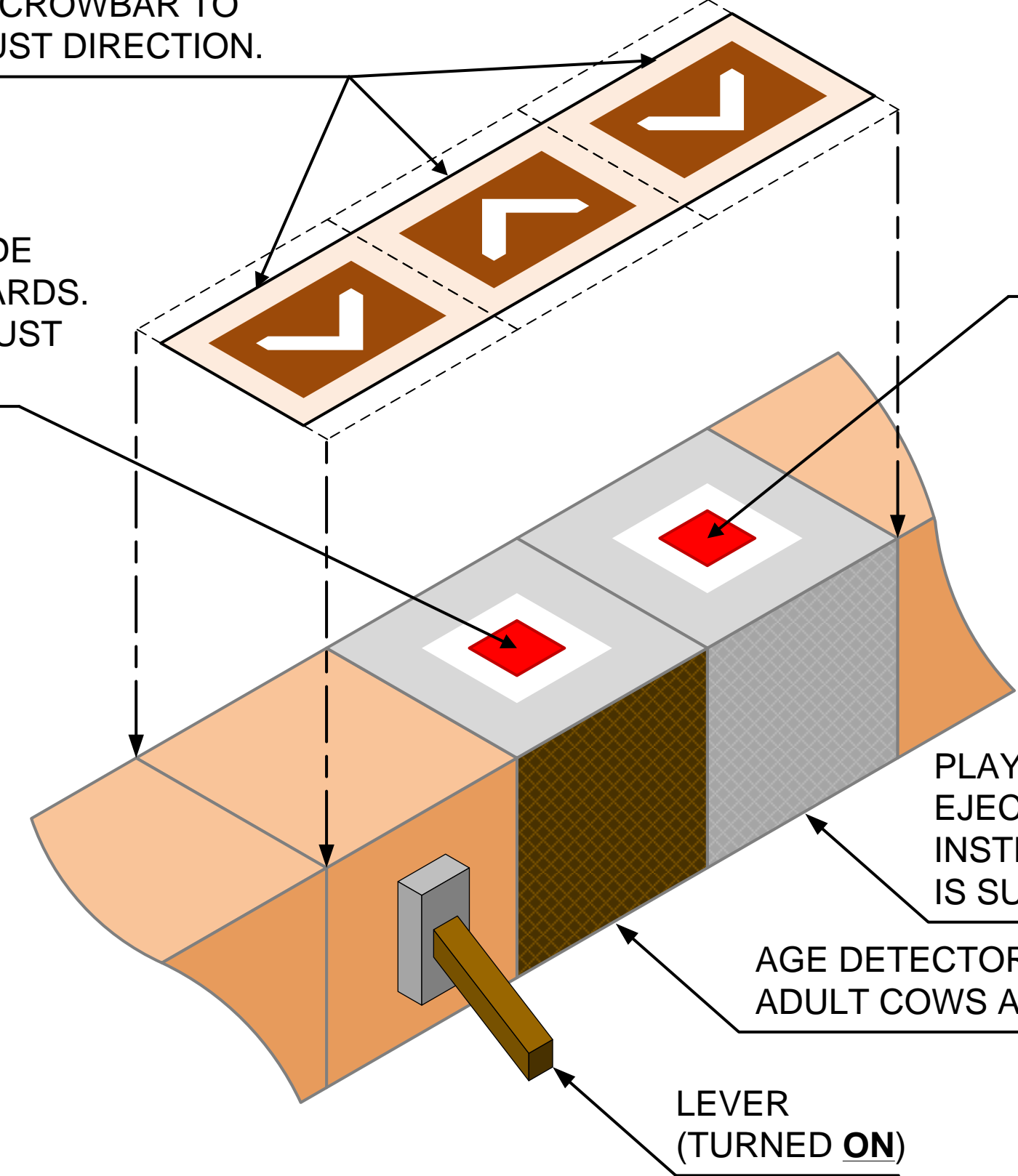
REDSTONE OUTPUT SIDE
MUST BE FACING
UPWARDS.
USE CROWBAR TO
ADJUST
DIRECTION.

EMBARKING TRACK
PICKUP RADIUS = 2
USE CROWBAR TO
ADJUST PICKUP RADIUS

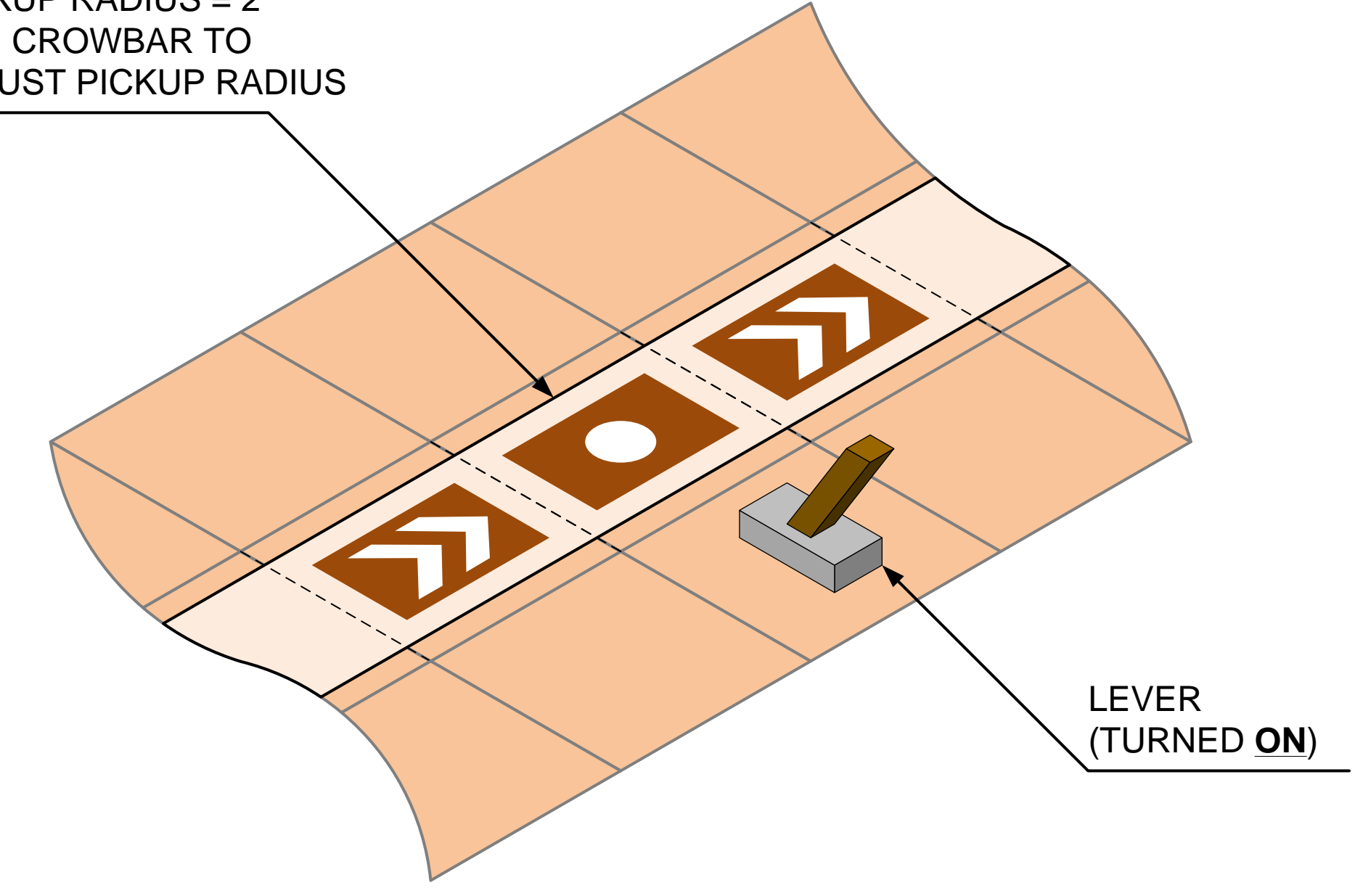
LEVER
(TURNED ON)



ISOMETRIC VIEW



**DETAIL 1
DISEMBARKING TRACK**



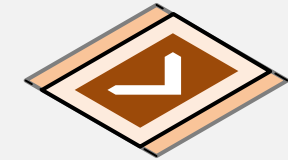
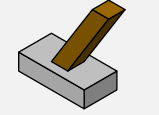
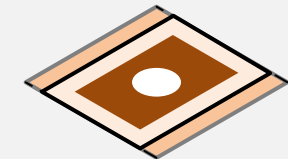
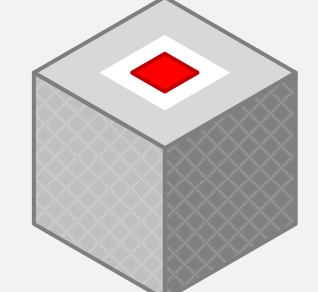
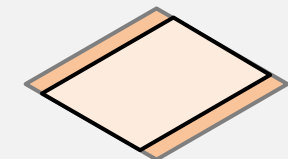
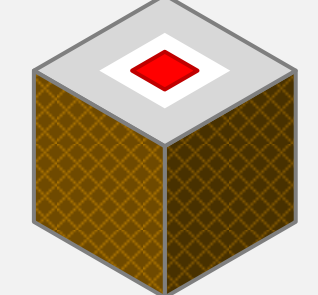
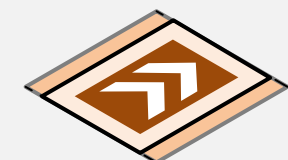
**DETAIL 2
EMBARKING TRACK**


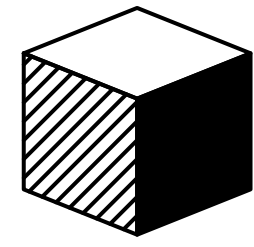
PLAYER DETECTOR. SAFETY FEATURE TO
EJECT PLAYER INTO WATER SIDE,
INSTEAD OF LAVA SIDE, IN CASE
PLAYER IS SUCKED INTO THE
MINECART.

AGE DETECTOR. TO SORT COWS BY
AGE. ADULT COWS ARE EJECTED
INTO LAVA.

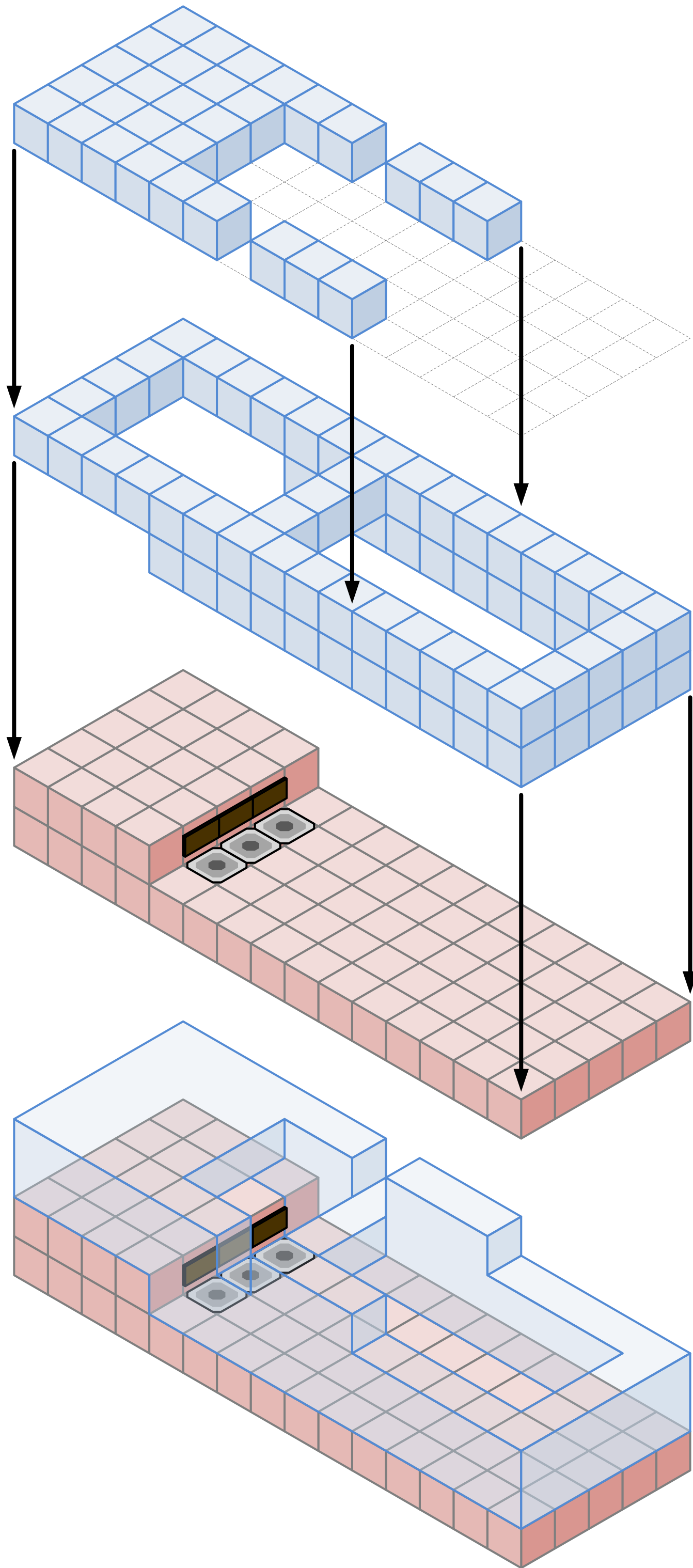
LEVER
(TURNED ON)

LEGEND

	DISEMBARKING TRACK		LEVER (SWITCHED ON)
	EMBARKING TRACK		DETECTOR - PLAYER
	[PLAIN] TRACK		DETECTOR - AGE
	CONTROL TRACK		

						NOT TO SCALE	3 OF 6		
						SCALE - ALL DIMENSIONS IN MM U.N.O.	SHEET		
						0 20 40 60 80 100			
						ORIGINAL DRAWING SIZE A1 - 100 MILLIMETRE PAPER SCALE			
B	AS BUILT				LAYIP	-	-	2016-09-18	 LWS INDUSTRIES 42 WALLABY WAY PERTH WA 6000 AUSTRALIA +618 5550 1234 minecraft@penwatch.net
A	FOR CONSTRUCTION				LAYIP	-	-	2016-09-16	
REV.	ISSUE	DRAWN	CHECKED	APPROVED	DATE	FILE NAME		DES-0004R0A Railcraft Cow Farm.vsd	DRAWING TITLE
						PROJECT NUMBER		LWS MC	MINECRAFT 1.7.10 TECH MODS RAILCRAFT AUTOMATIC COW FARM
						DRAWING NUMBER		DES-0004	REVISION
								B	

ASSEMBLY 2: LAVA BLADE AND MATURING PEN



ISOMETRIC

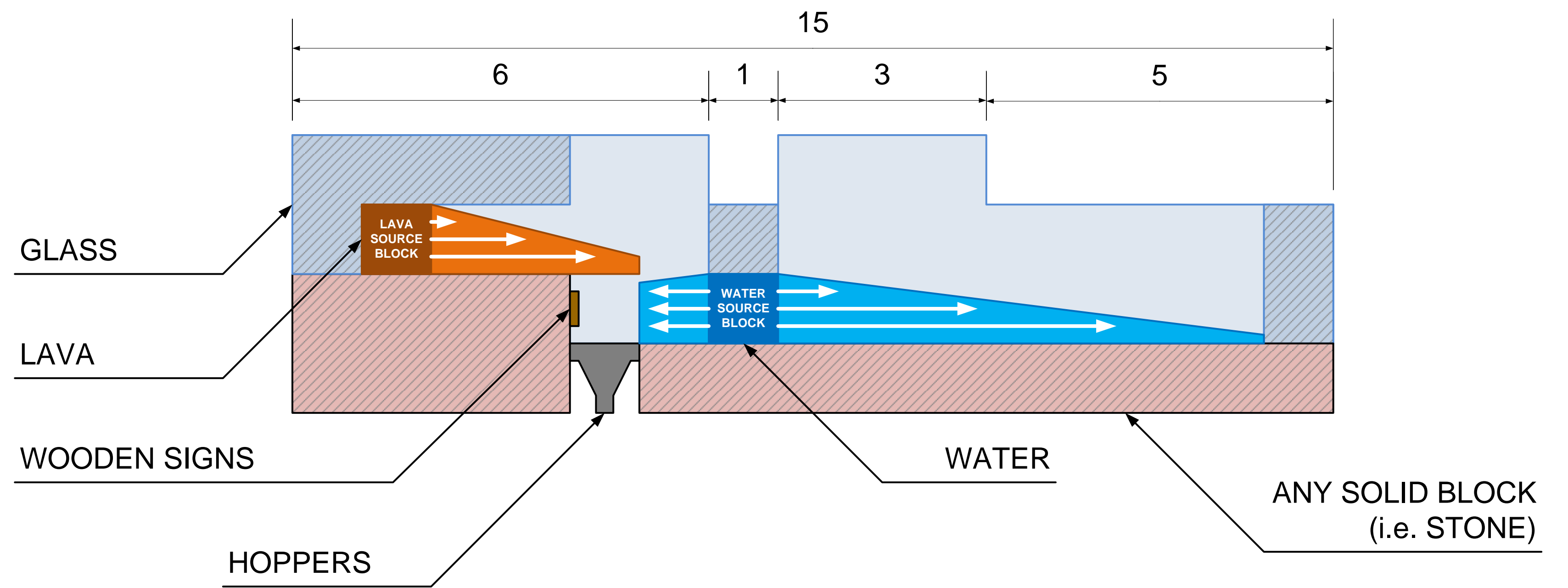
(LAVA AND WATER OMITTED FOR CLARITY)

LAVA BLADE

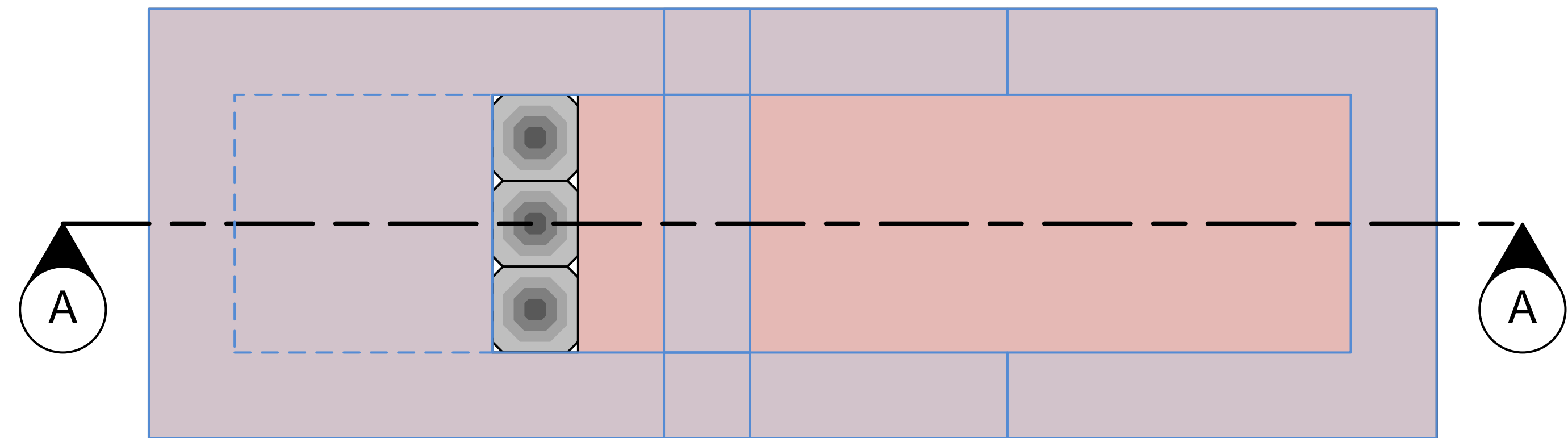
- ADULT COWS ARE EJECTED INTO THIS AREA.
- THE LAVA KILLS THE COWS.
- HOPPERS COLLECT THE DROPPED ITEMS.

MATURING PEN

BABY COWS STAY IN THIS AREA UNTIL THEY GROW INTO ADULT COWS.



SECTION A-A



TOP VIEW

(LAVA AND WATER OMITTED FOR CLARITY)

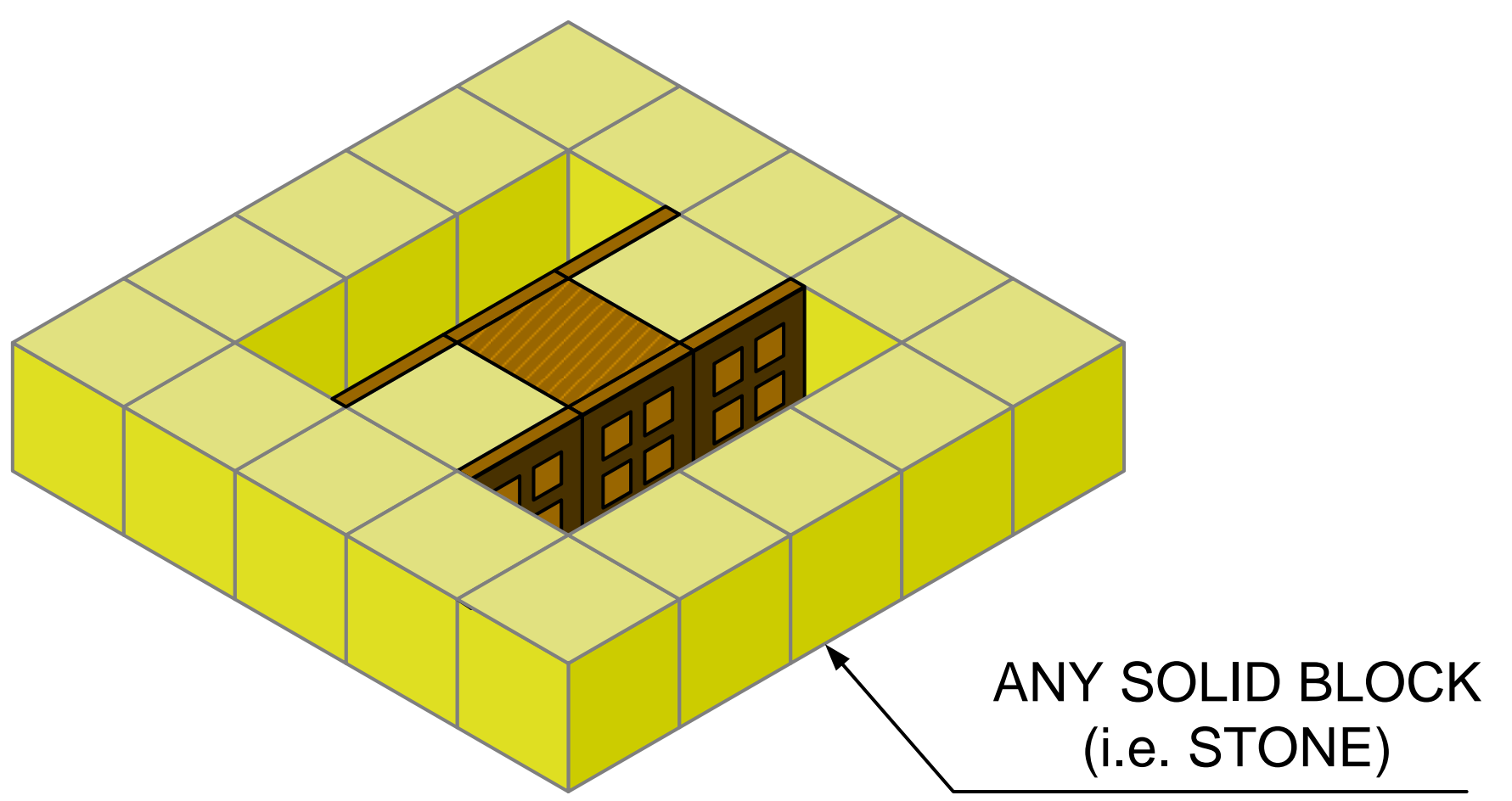
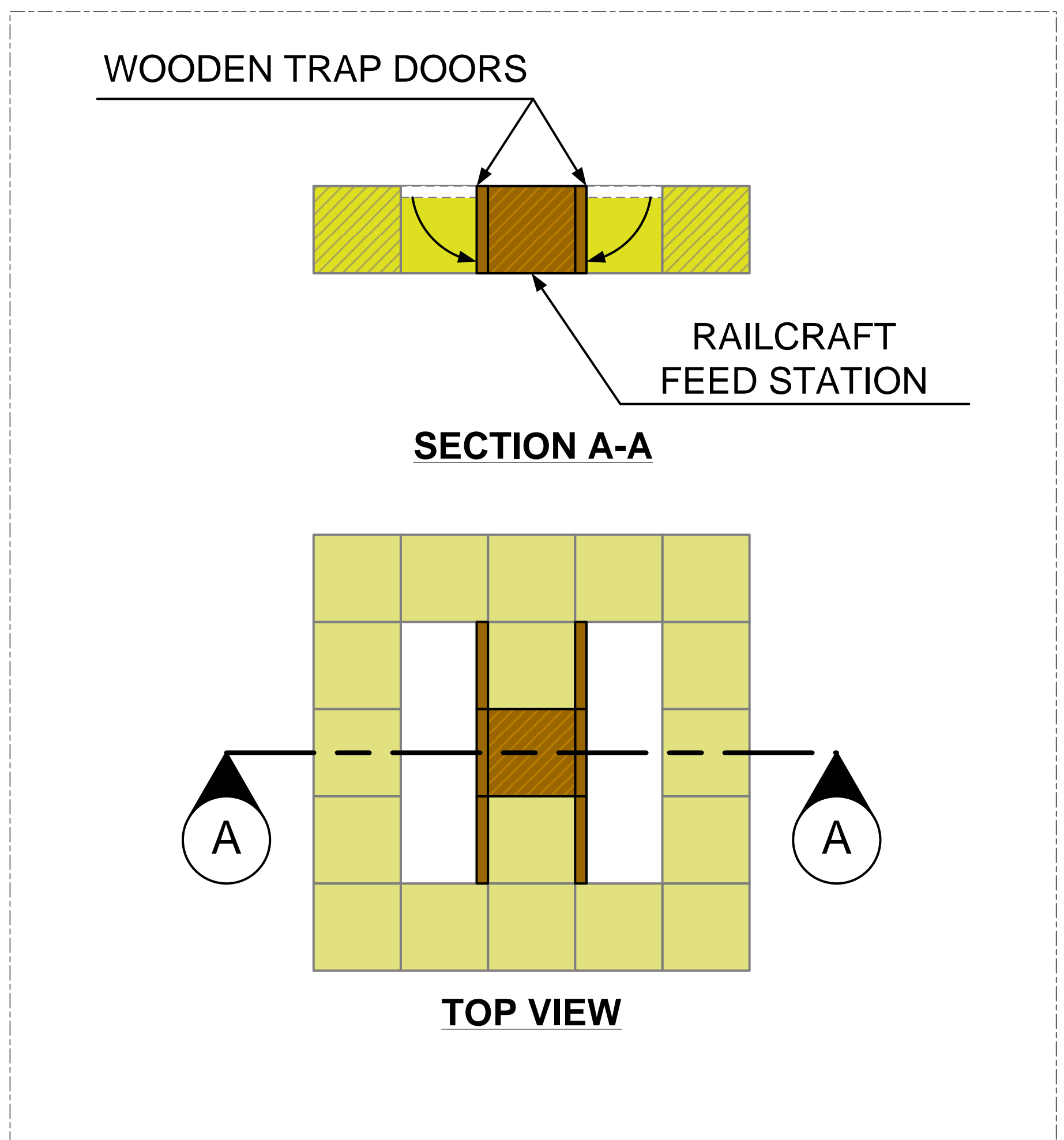
REV.	ISSUE	DRAWN	CHECKED	APPROVED	DATE
B	AS BUILT	LAYIP	-	-	2016-09-18
A	FOR CONSTRUCTION	LAYIP	-	-	2016-09-16

NOT TO SCALE		4 OF 6	
SCALE - ALL DIMENSIONS IN MM U.N.O.		SHEET	
ORIGINAL DRAWING SIZE A1 - 100 MILLIMETRE PAPER SCALE	MODIFIED	PRINTED	
	2016-09-18 01:44	2016-09-16 21:47	
FILE NAME	DES-0004R0A Railcraft Cow Farm.vsd		

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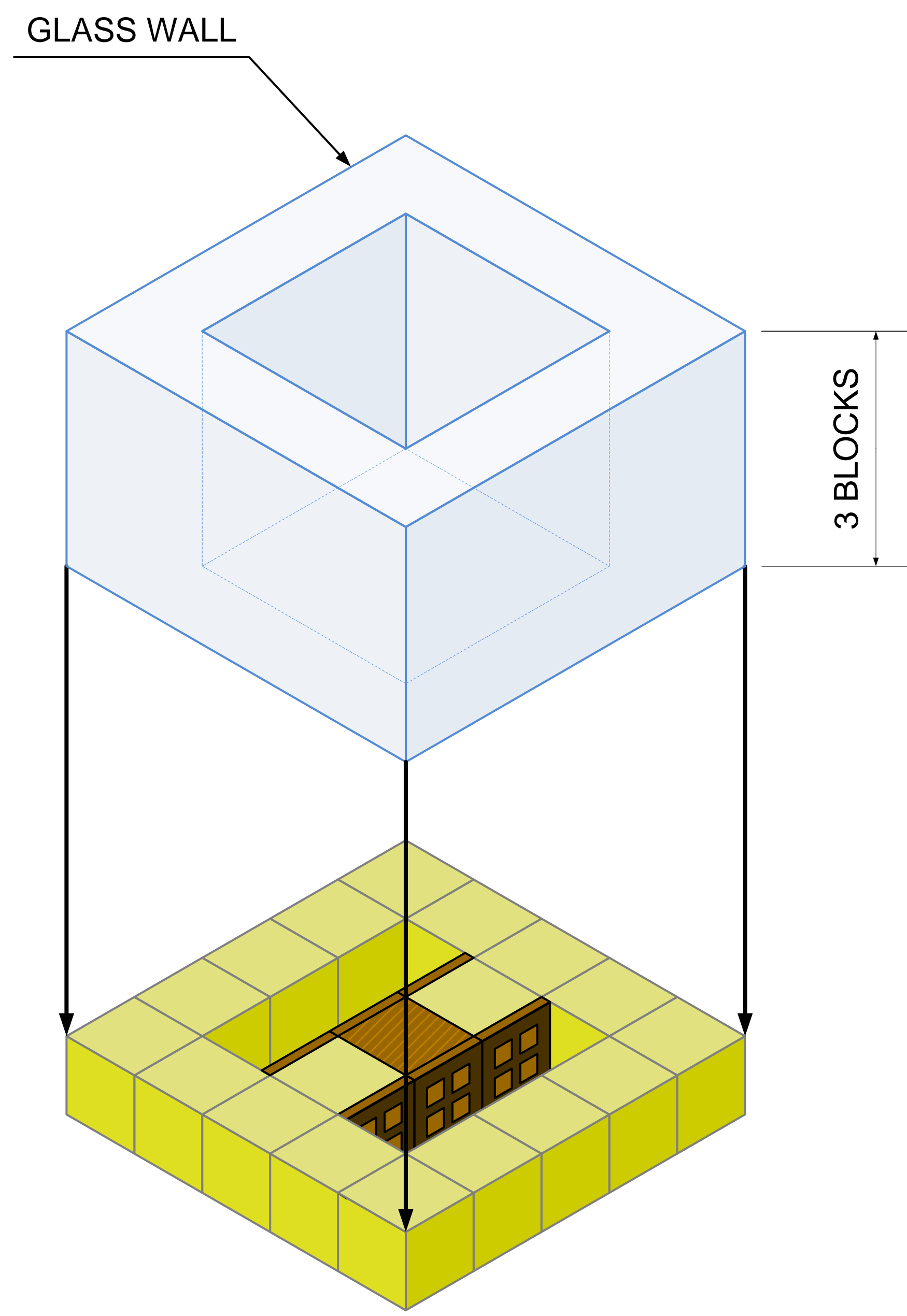
MINECRAFT 1.7.10 TECH MODS RAILCRAFT AUTOMATIC COW FARM		DRAWING TITLE	
LWS MC		DES-0004	
PROJECT NUMBER		DRAWING NUMBER	
			B
			REVISION

ASSEMBLY 3: BREEDING CAGE



(1) ASSEMBLE THE BASE.

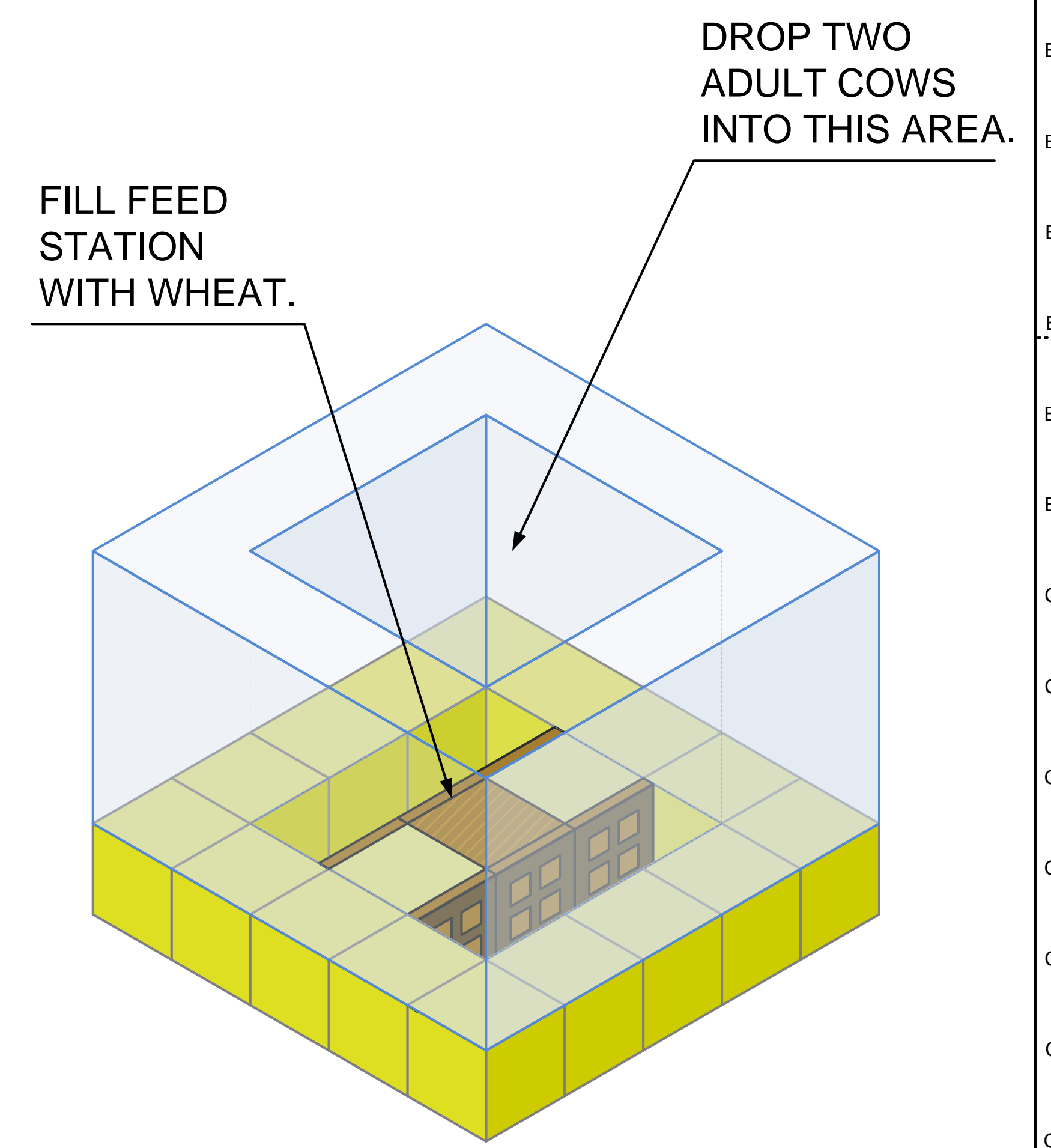
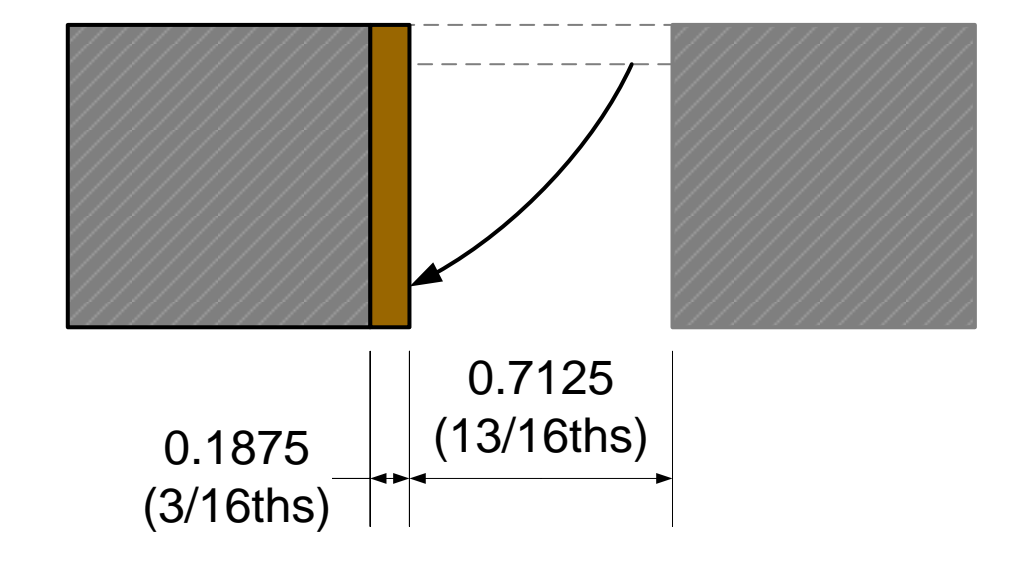
WALL **MUST** BE MADE OF GLASS, TO AVOID ACCIDENTAL SUFFOCATION IF COWS ARE FORCED INTO THE WALLS.



(2) ADD GLASS WALL.

NOTES

- The breeding cage uses the Railcraft "Feed Station" to feed a pair of adult cows, producing baby cows.
- You must fill the Feed Station with wheat.
- Adult cows are too large to fit through the trap doors (0.7125 opening width), so they are held captive above the trapdoors.
- Baby cows are small enough to fit through the trap doors, so they fall through.



(3) ADD COWS AND WHEAT.

REV.	ISSUE	DRAWN	CHECKED	APPROVED	DATE
B	AS BUILT	LAYIP	-	-	2016-09-18
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NOT TO SCALE 5 OF 6
 SCALE - ALL DIMENSIONS IN MM U.N.O. SHEET
 ORIGINAL DRAWING SIZE A1 - 100 MILLIMETRE PAPER SCALE
 MODIFIED 2016-09-18 01:44 PRINTED 2016-09-16 21:47
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MINECRAFT 1.7.10 TECH MODS
 RAILCRAFT
 AUTOMATIC COW FARM
 DRAWING TITLE

LWS MC PROJECT NUMBER
 DES-0004 DRAWING NUMBER
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CONSTRUCTION AND COMMISSIONING CHECKLIST

PREPARATION

- 0.1 CLEAR A CONSTRUCTION SITE AT LEAST 15 WIDE x 7 DEEP x 8 HIGH.
- 0.2 GATHER ALL ITEMS LISTED ON BILL OF MATERIALS (SHEET 1)

ASSEMBLY 1

- 1.1 CONSTRUCT BASE OF ASSEMBLY 1 FROM SOLID BLOCKS I.E. STONE
- 1.2 PLAYER DETECTOR – PLACED
- 1.3 PLAYER DETECTOR – REDSTONE OUTPUT – FACING UPWARDS
- 1.4 AGE DETECTOR – PLACED
- 1.5 AGE DETECTOR – REDSTONE OUTPUT – FACING UPWARDS
- 1.6 4 PLAIN TRACKS – PLACED
- 1.7 16 CONTROL TRACK – PLACED
- 1.8 3 DISEMBARKING TRACKS – PLACED
- 1.9 DISEMBARKING TRACKS – DIRECTION OF EACH TRACK SET WITH CROWBAR
- 1.10 LEVER – AT DISEMBARKING TRACK – TURNED ON
- 1.11 1 EMBARKING TRACK - PLACED
- 1.12 EMBARKING TRACK – USE CROWBAR – PICKUP RADIUS SET TO 2
- 1.13 LEVER – AT EMBARKING TRACK – TURNED ON

ASSEMBLY 2

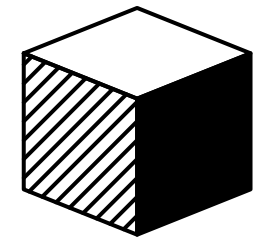
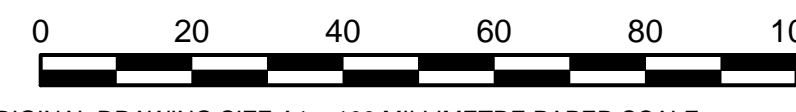
- 2.1 CONSTRUCT BASE OF ASSEMBLY 2 FROM SOLID BLOCKS I.E. STONE
- 2.2 CONSTRUCT WALLS OF ASSEMBLY 2 FROM GLASS
- 2.3 DO NOT PLACE LAVA OR WATER UNTIL FINAL COMMISSIONING.
- 2.4 3 HOPPERS – PLACED
- 2.5 3 SIGNS – PLACED

ASSEMBLY 3

- 3.1 CONSTRUCT BASE OF ASSEMBLY 3 FROM SOLID BLOCKS I.E. STONE
- 3.2 6 TRAP DOORS – PLACED
- 3.3 6 TRAP DOORS – OPENED
- 3.4 FEED STATION – PLACED
- 3.5 CONSTRUCT WALLS OF ASSEMBLY 3 FROM GLASS

COMMISSIONING

- 4.1 TWO ADULT COWS – PLACE INTO ASSEMBLY 3, AS PER SHEET 5
- 4.2 FEED STATION – FILL WITH WHEAT, AS PER SHEET 5
- 4.3 3 BLOCKS OF LAVA – PLACE INTO ASSEMBLY 2, AS PER SHEET 4
- 4.4 3 BLOCKS OF WATER – PLACE INTO ASSEMBLY 2, AS PER SHEET 4
- 4.5 MINECART – PLACED ON TRACK – MOVEMENT START

						NOT TO SCALE <small>SCALE – ALL DIMENSIONS IN MM U.N.O.</small>		6 OF 6 <small>SHEET</small>		 LWS INDUSTRIES 42 WALLABY WAY PERTH WA 6000 AUSTRALIA +618 5550 1234 minecraft@penwatch.net		MINECRAFT 1.7.10 TECH MODS RAILCRAFT AUTOMATIC COW FARM									
												<small>DRAWING TITLE</small>									
B	AS BUILT					LAYIP	-	-	2016-09-18			<small>PROJECT NUMBER</small>		LWS MC		<small>DRAWING NUMBER</small>		DES-0004		B	
A	FOR CONSTRUCTION					LAYIP	-	-	2016-09-16			<small>FILE NAME</small>		DES-0004R0A Railcraft Cow Farm.vsd		<small>REVISION</small>		B			
REV.	ISSUE					DRAWN	CHECKED	APPROVED	DATE			<small>PROJECT NUMBER</small>		LWS MC		<small>DRAWING NUMBER</small>		DES-0004		<small>REVISION</small>	