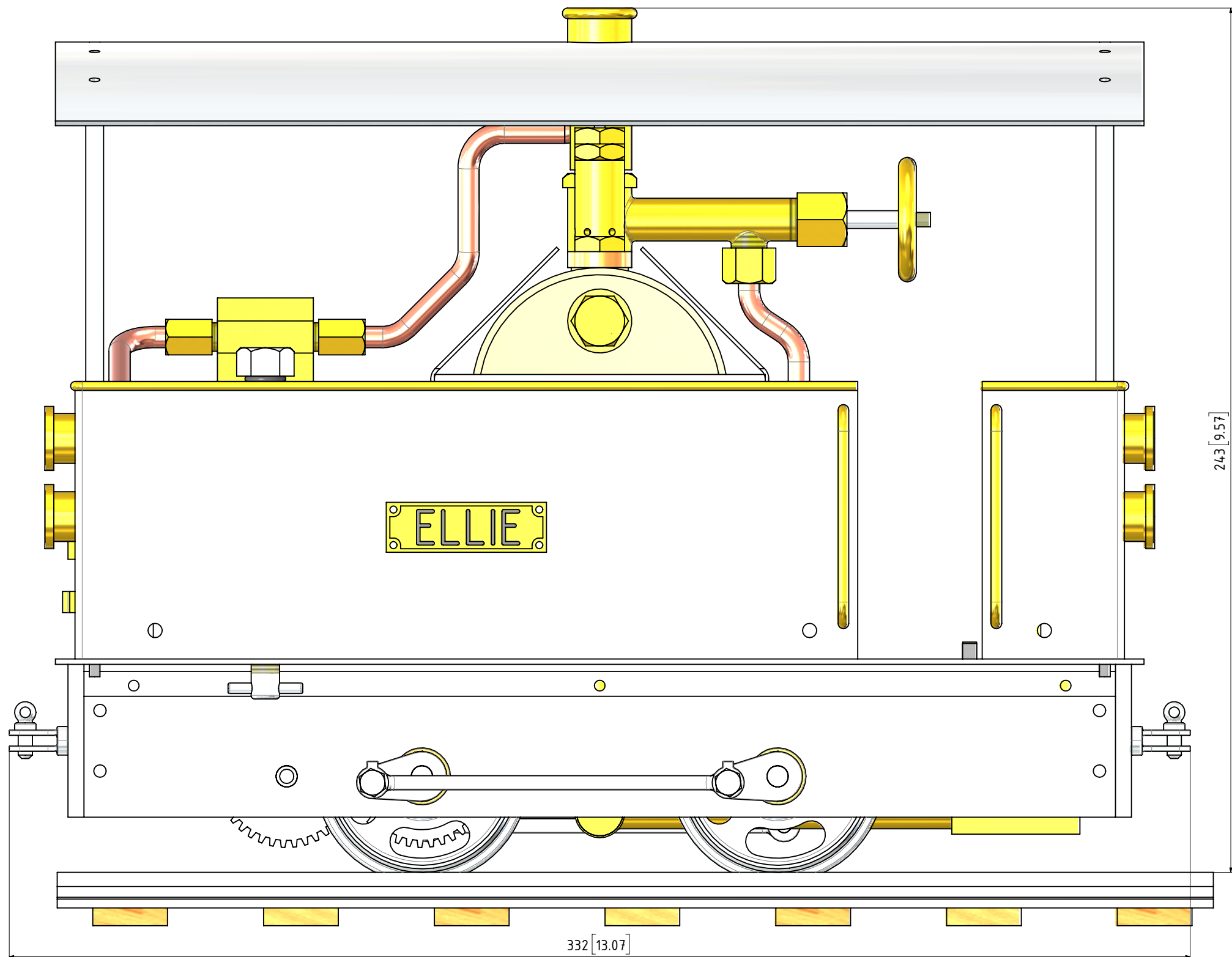
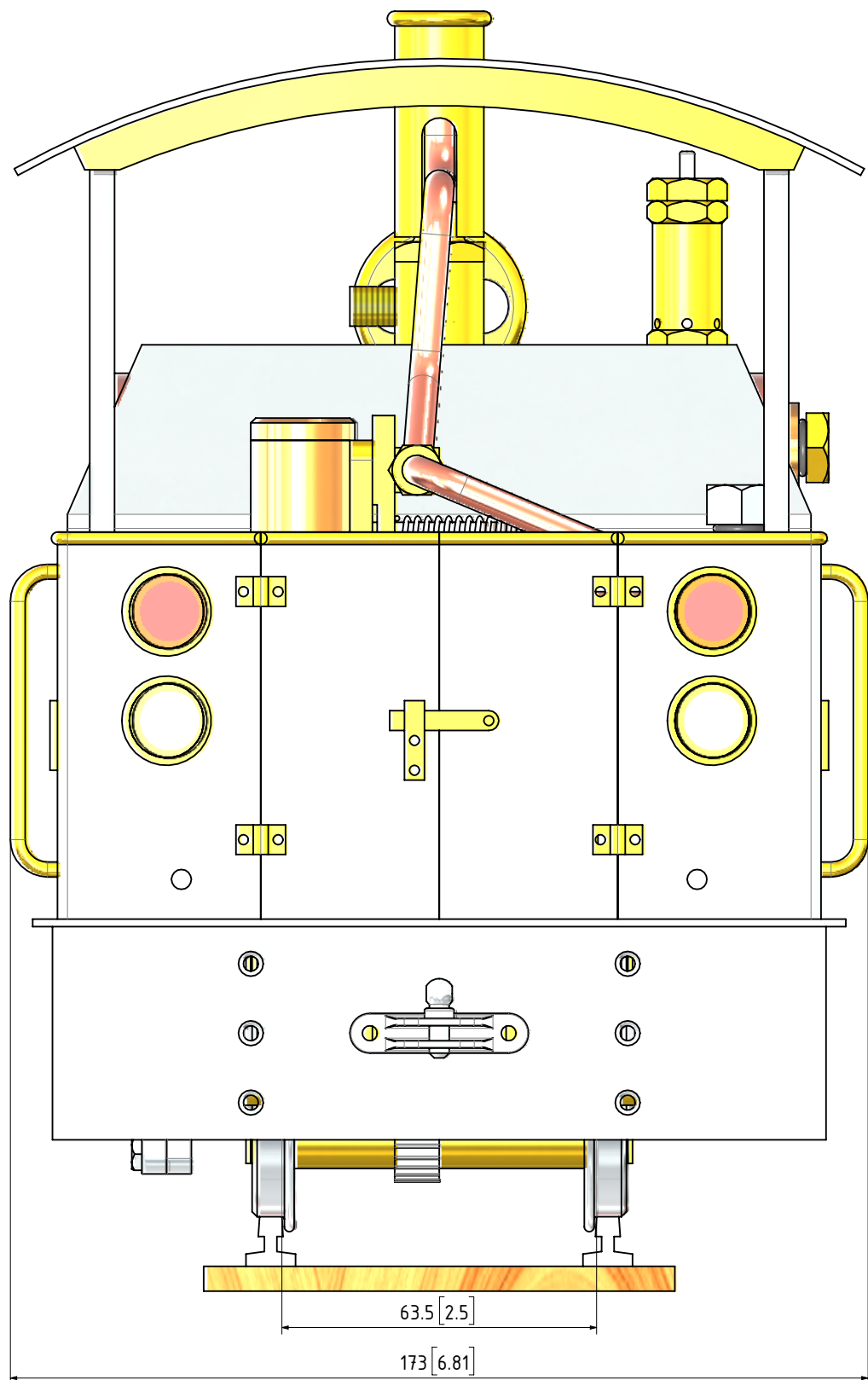




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TITLE
A SPIRIT/ALCOHOL FIRED NARROW GAUGE
MODEL STEAM TRAM CALLED "ELLIE"

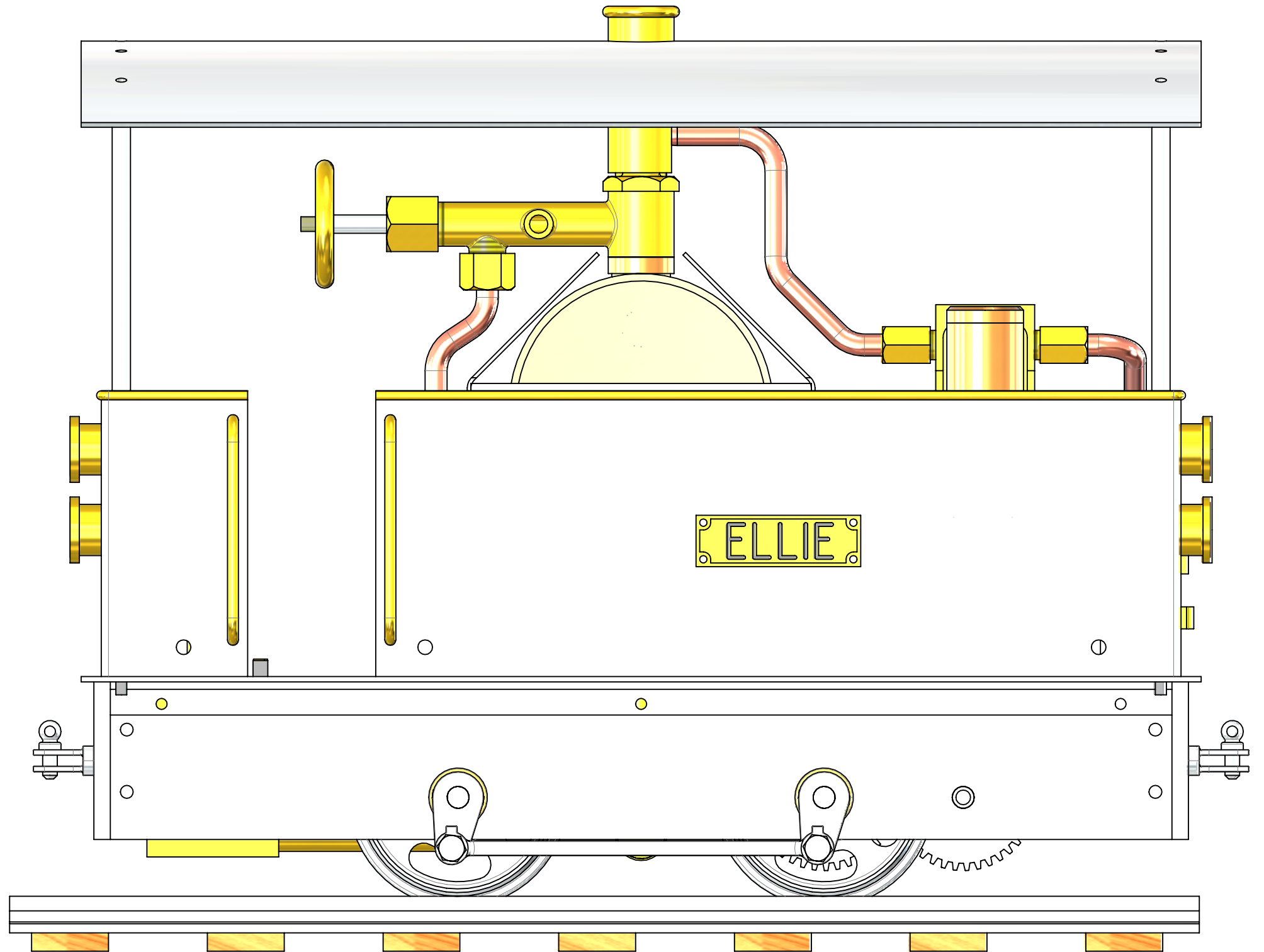
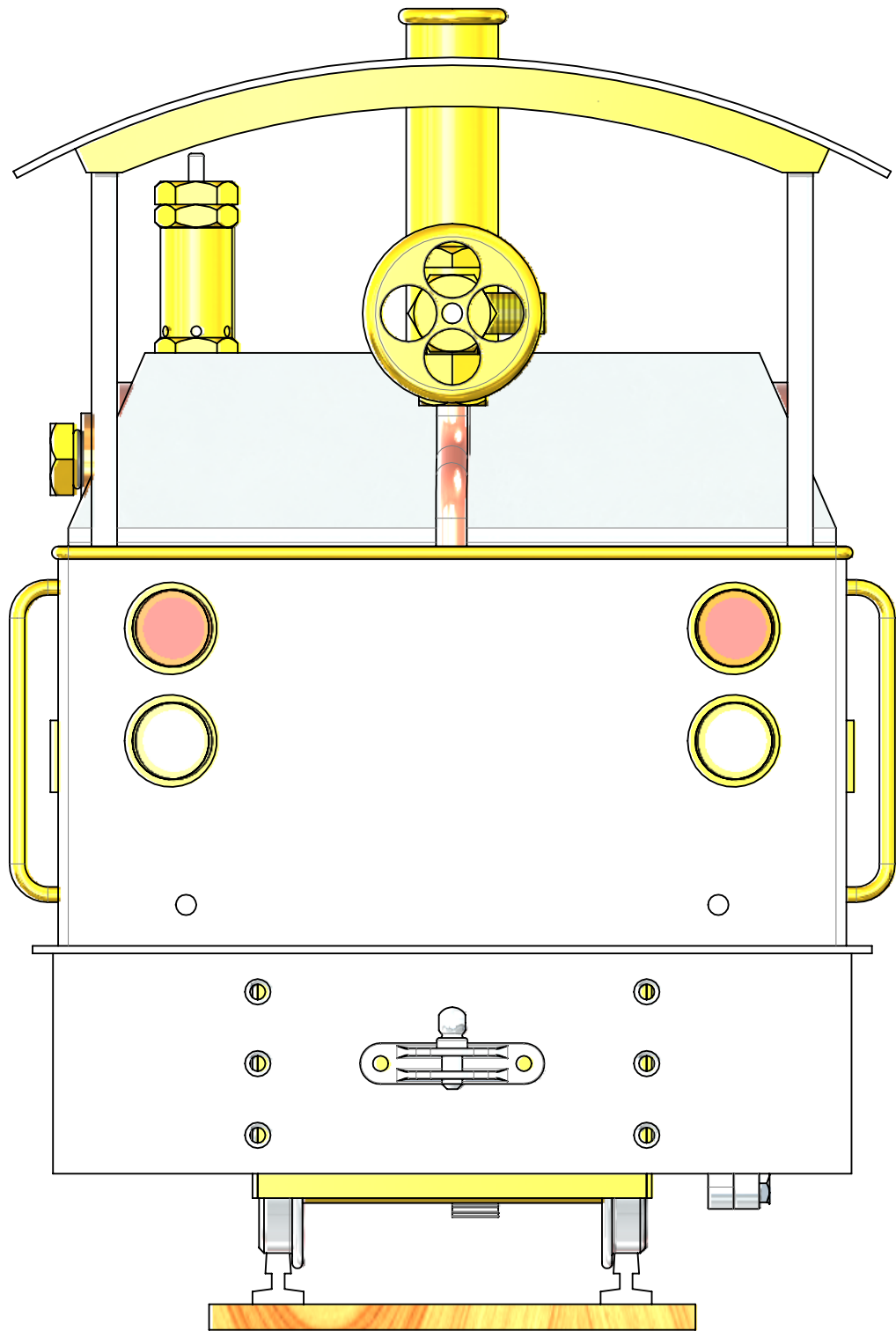
DRAWING CONTENTS
GENERAL ARRANGEMENT

PROJECT No 07E-25-00
JDW DRAUGHTING SERVICES
J.A.M. DE WAAL, 12 BRIGHTWELL STREET PAKAPURA
2110, NEW ZEALAND. PHONE: 0064 09 2988815. MOB:
0211791000 E-MAIL: dewaal@xtra.co.nz.

PROJECTION
DATE
JULY 2026
SHEET: 01 OF 08

MODEL SCALE: 1:1
DWG SCALE: 1:1 @A3 OR AS SHOWN
Copyright © J.A.M. DE WAAL PAKAPURA NZ
A3 No:07E-25-00-SHT-01

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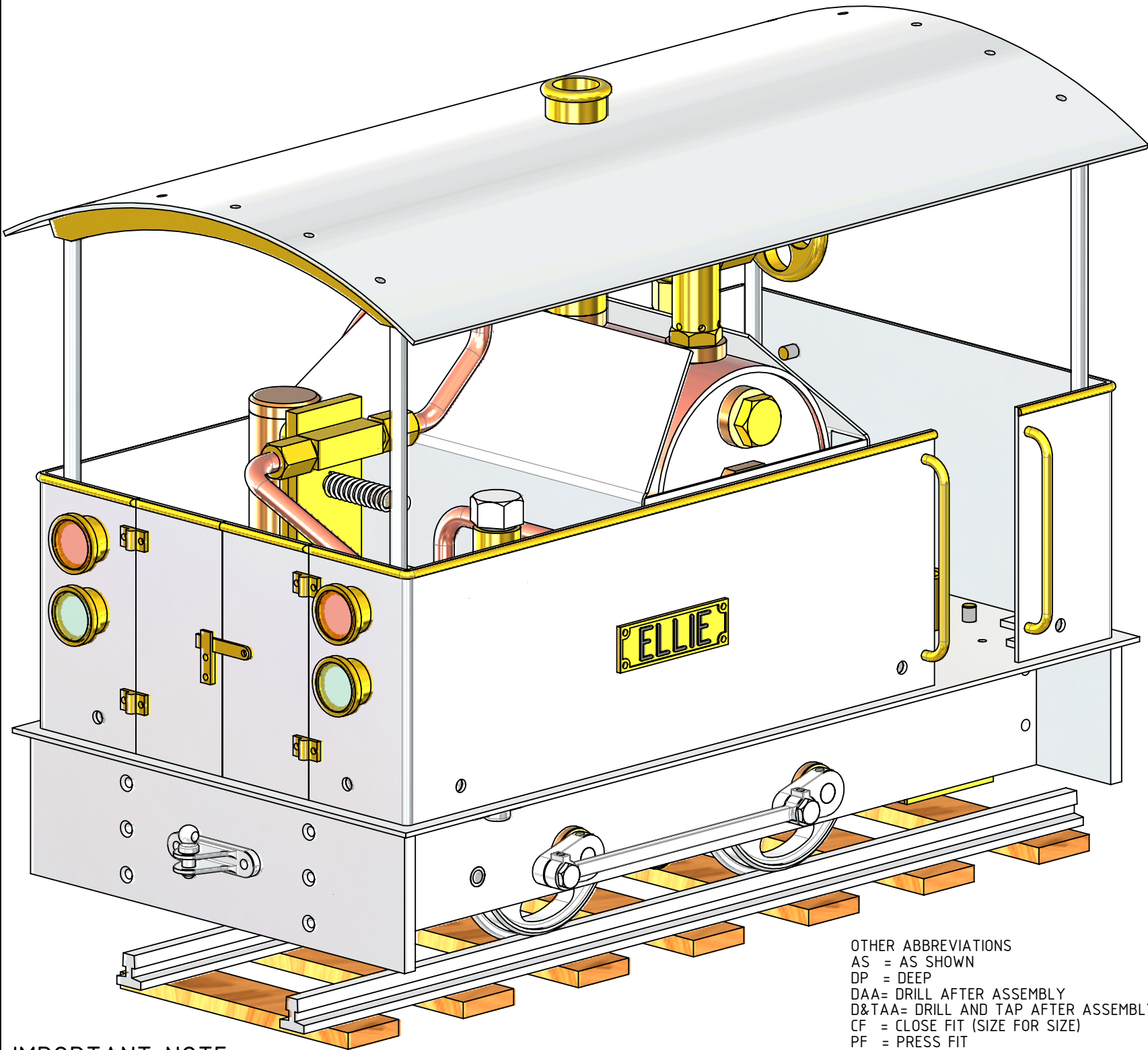
TITLE
A SPIRIT/ALCOHOL FIRED NARROW GAUGE
MODEL STEAM TRAM CALLED "ELLIE"

DRAWING CONTENTS
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PROJECT No 07E-25-00
JDW DRAUGHTING SERVICES
J.A.M. DE WAAL, 12 BRIGHTWELL STREET PAKAPURA
2110, NEW ZEALAND. PHONE: 0064 09 2988815. MOB:
0211791000 E-MAIL: dewaal@xtra.co.nz.

PROJECTION DATE JULY 2026	JDWDS Copyright © J.A.M. DE WAAL PAKAPURA NZ	MODEL SCALE: 1:1 DWG SCALE: 1:1 @A3 OR AS SHOWN
SHEET: 02 OF 08		A3 No:07E-25-00-SHT-02

DRAWINGS ARE FOR PERSONAL USE ONLY NOT FOR COMMERCIAL PURPOSES



IMPORTANT NOTE:
BEFORE STARTING: IT IS STRONGLY ADVISED THAT THE BOILER AS SHOWN ON THESE DRAWINGS SHOULD BE INSPECTED BY AN AUTHORISED PROFESSIONAL ENGINEER AND THE WORKING AND MAXIMUM BOILER PRESSURE TO BE CALCULATED.
MAKE SURE THE BOILER FULLY COMPLIES WITH THE LOCAL RULES AND REGULATIONS OF MODEL BOILERS.
A COMPLIANCE AND SAFETY/TEST CERTIFICATE SHOULD BE OBTAINED.

OTHER ABBREVIATIONS
AS = AS SHOWN
DP = DEEP
DAA= DRILL AFTER ASSEMBLY
D&TAA= DRILL AND TAP AFTER ASSEMBLY
CF = CLOSE FIT (SIZE FOR SIZE)
PF = PRESS FIT
PFAA= PRESS FIT AFTER ASSEMBLY
PCD = PITCH CIRCLE DIAMETER
RM = REAM
HEX = HEXAGON, 6SIDED
CP = COMPRESSED
KNL = KNURLED
CSK = COUNTERSINK
PL = PLACES
DWL= DOWEL
SPF= SPOTFACE
(T)HESOP=(TAPPED)HOLES EQUALLY SPACED ON PCD
(T)HESOC=(TAPPED)HOLES EQUALLY SPACED ON CIRCUMFERENCE
OD = OUTSIDE DIAMETER
ID = INSIDE DIAMETER
MAX/MIN = CRITICAL DIMENSION
[SA-xxx]= SUB ASSEMBLY-xxx

GENERAL NOTES:
0. ALL DRAWINGS ARE IN METRIC MEASUREMENTS
1. ALL ENGINEERING PRACTICES SHALL BE APPLIED WITH REGARDS TO HOLE AND SHAFT TOLERANCES.
2. WHERE SCREWS OR BOLTS ARE USED THE CLEARANCE HOLES SHALL BE APPROXIMATELY 5% TO 8% LARGER THAN THE MATCHING TAPPED HOLE.
3. PREFERABLY ALL TAPPED HOLES AND MATCHING SCREWS AND/OR BOLTS TO BE METRIC FINE (MF)
4. MATERIALS SPECIFIED ON THE DRAWINGS ARE INDICATIVE ONLY. THE BUILDER CAN MAKE HIS/HER OWN MATERIAL CHOICE.
5. ALL CONNECTIONS/JOINTS WHICH HAVE STEAM PRESSURE APPLIED TO IT SHALL BE SILVER/HARD SOLDERED.
6. COMPRESSION SPRINGS ARE DRAWN IN COMPRESSED STATE (CP), UNCOMPRESSED STATE IS APPROX 40% TO 60% LONGER THEN COMPRESSED STATE.
7. WHERE PREFERRED SCREW OR RIVETED CONNECTIONS CAN BE OMITTED AND PARTS CAN BE BONDED TOGETHER BY USING EITHER HIGH STRENGTH GLUE, EPOXY RESIN, OR SOLDER.
8. PARTS WHICH ARE DIRECTLY EXPOSED TO STEAM AND/OR WATER SHOULD BE CONSTRUCTED USING NON-FERROUS OR NON CORROSIVE MATERIAL SUCH AS BRASS, BRONZE, GUNMETAL, STAINLESS STEEL, COPPER OR MONEL.
9. THE ORDER IN WHICH THE PARTS/COMPONENTS ARE MANUFACTURED AND THE MODEL IS ASSEMBLED IS ENTIRELY LEFT TO THE BUILDER/MODEL MAKER.
10. A COLOUR SCHEME FOR THIS PROJECT IS ENTIRELY LEFT UP TO THE MODEL MAKER.
11. THE MANNER IN WHICH THE PARTS/COMPONENTS ARE MANUFACTURED IS ENTIRELY LEFT UP TO THE BUILDER.
12. USE LOCTITE, ON SCREW OR PRESS FIT CONNECTIONS OR SURFACES, WERE DEEMED NECESSARY TO PREVENT PARTS FROM LOOSENING.
13. WASHERS AND/OR SPRING WASHERS SHALL BE USED WHERE DEEMED NECESSARY.
14. USE SEALING GASKETS WERE DEEMED NECESSARY.
15. REMOVE ALL SHARP EDGES
XX. ERRORS AND/OR OMISSIONS MAY OCCUR IN THE DRAWINGS, DO NOT HESITATE TO CONTACT ME SO THAT THE ERRORS/OMISSIONS CAN BE RECTIFIED.

ADDITIONAL NOTES ABOUT THESE DRAWINGS:
1) NO MATERIALS HAVE BEEN SPECIFIED ON THESE DRAWINGS. THE BUILDER TO CHOOSE ITS OWN PREFERRED MATERIAL FOR THE PARTS/COMPONENTS. THE FOLLOWING COLOURS ON THE DRAWINGS INDICATES POSSIBLE MATERIALS WHICH CAN BE USED FOR PARTS: YELLOW=BRASS, LIGHT GREY=ALUMINIUM OR MILD STEEL, REDDISH BROWN=COPPER, DARK BROWN=BRONZE OR GUN METAL, WHITISH=SILVER STEEL OR STAINLESS STEEL
2) FASTENERS.
NO FASTENERS SUCH AS BOLTS, SCREWS, RIVETS, NUTS AND WASHERS HAVE BEEN SHOWN ON THESE DRAWINGS. THE BUILDER TO CHOOSE ITS OWN PREFERRED TYPE OF FASTENERS.
3) PRESSURE GAUGE.
NO PRESSURE GAUGE HAS BEEN SHOWN ON THESE DRAWINGS. IF A PRESSURE GAUGE IS REQUIRED/DESIRED THE RANGE OF THE PRESSURE GAUGE TO BE DETERMENT AFTER MAXIMUM BOILER PRESSURE IS ESTABLISHED AND THE AVAILABILITY ON THE MARKET. THE PRESSURE GAUGE IS A PROPRIETY ITEM.
4) PIPING
PREFERABLY ALL PIPING TO BE COPPER. THE PIPING ON THE DRAWINGS ARE INDICATIVE ONLY. THE BUILDER TO ESTABLISH THE PIPE LENGTH AND ROUTE FROM WORK PIECE. THE PIPE SIZES ARE INDICATIVE ONLY. THE BUILDER TO ESTABLISH THE AVAILABILITY OF THE PIPE SIZE(S) FROM THE LOCAL SUPPLIER(S). THE PIPE NUT(S) TO BE ADJUSTED TO THE USED PIPE SIZE.
5) BOILER.
BEFORE STARTING: THE BOILER AS SHOWN ON THESE DRAWING SHOULD BE INSPECTED BY AN AUTHORISED PROFESSIONAL ENGINEER. THE RUNNING AND MAXIMUM BOILER PRESSURE TO BE CALCULATED. MAKE SURE THE THE BOILER FULLY COMPLIES WITH THE LOCAL RULES AND REGULATIONS OF MODEL BOILERS. A COMPLIANCE AND TEST CERTIFICATE SHOULD BE OBTAINED.
BOILER INSULATION IS NOT SHOWN ON THESE DRAWINGS.
IF BOILER INSULATION IS PREFERRED THEN THE BUILDER TO SOURCE THE APPROPRIATE MATERIAL AND THICKNESS
5) DUMMY PARTS.
IF PREFERRED SOME OF THE DUMMY PARTS COULD BE REPLACED WITH REAL OPERATING PART(S). THE BUILDER TO DESIGN THE PART OR ALTERNATIVELY PURCHASE.

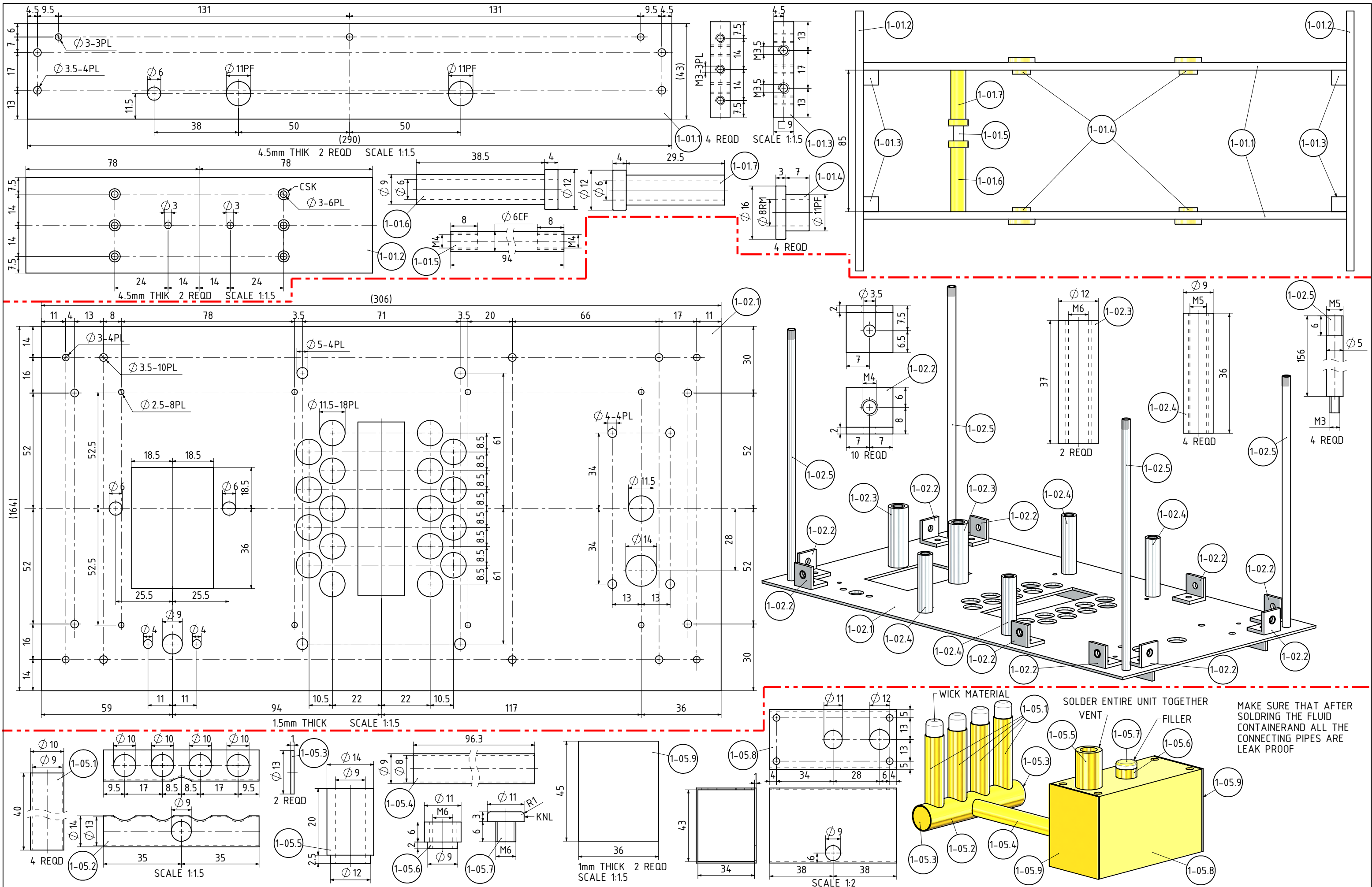
DUE TO THE LACK OF INFORMATION ON THE ORIGINAL DRAWING(S), SUCH AS VIEWS, DIMENSIONS, SECTIONS ETC AND/OR CLARITY OF COMPONENTS, OMITTED PARTS/COMPONENTS, SOME OF THE COMPONENTS MIGHT NOT BE AS CONSTRUCTED ORIGINALLY OR AS THE ORIGINAL DESIGNER INTENDED

QTY	PART NUMBER
1	07E-25-00-1-01-UNDER FRAME
1	07E-25-00-1-02-FOOT PLATE
1	07E-25-00-1-03-ENGINE FRAME
1	07E-25-00-1-04-DISPLACEMENT LUBRICATOR
1	07E-25-00-1-05-ALCOHOL BURNER
1	07E-25-00-1-06-BOILER
1	07E-25-00-1-07-SAFETY VALVE
1	07E-25-00-1-08-REGULATOR
1	07E-25-00-1-09-FIREBOX
1	07E-25-00-1-10-STEAM SUPPLY PIPE-1
1	07E-25-00-1-11-STEAM SUPPLY PIPE-2
1	07E-25-00-1-12-EXHAUST PIPE
1	07E-25-00-1-13-BODY WORK
1	07E-25-00-1-14-CANOPY ROOF
4	07E-25-00-1-15-HAND RAIL
4	07E-25-00-1-16-FRONT AND REAR LIGHTS
4	07E-25-00-1-16-FRONT AND REAR LIGHTS
2	07E-25-00-1-17-COUPLER
2	07E-25-00-2-01-WHEEL SET
2	07E-25-00-2-02-COUPLING ROD
1	07E-25-00-2-03-CRANKSHAFT+FLYWHEEL
1	07E-25-00-2-04-CYLINDER
1	07E-25-00-2-05-PISTON
1	07E-25-00-2-06-CRANK SHAFT GEAR WHEEL-19T-M=1
1	07E-25-00-2-07-COMPOUND GEAR WHEELS-19T+ 38T-M=1
1	07E-25-00-2-08-IDLER GEAR WHEELS-38T-M=1
1	07E-25-00-2-09-GEAR WHEEL-38T-M=1
4	07E-25-00-M4 NUT-BRASS
4	07E-25-00-M4x10 A-K ROUND HEAD SCREW-BRASS
1	07E-25-00-M64mm-RAIL

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TITLE	DRAWING CONTENTS	PROJECT No	PROJECTION	DATE	MODEL SCALE:
A SPIRIT/ALCOHOL FIRED NARROW GAUGE MODEL STEAM TRAM CALLED "ELLIE"	ISOMETRIC VIEW, NOTES AND BILL OF MATERIALS	07E-25-00		JULY 2026	1:1
		JDW DRAUGHTING SERVICES J.A.M. DE WAAL, 12 BRIGHTWELL STREET PAKAPURA 2110, NEW ZEALAND. PHONE: 0064 09 2988815. MOB: 0211791000 E-MAIL: dewaal@xtra.co.nz.			DWG SCALE: 1:1 @A3 OR AS SHOWN
				SHEET: 03 OF 08	Copyright © J.A.M. DE WAAL PAKAPURA NZ A3 No:07E-25-00-SHT-03

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TITLE		DRAWING CONTENTS		DATE		DWG SCALE: 1:1 @A3 OR AS SHOWN	
A SPIRIT/ALCOHOL FIRED NARROW GAUGE		PARTS AND ASSEMBLIES		JULY 2026		Copyright © J.A.M. DE WAAL PAPA KURA NZ	
MODEL STEAM TRAM CALLED "ELLIE"				SHEET: 04 OF 08		A3 No:07E-25-00-SHT-04	