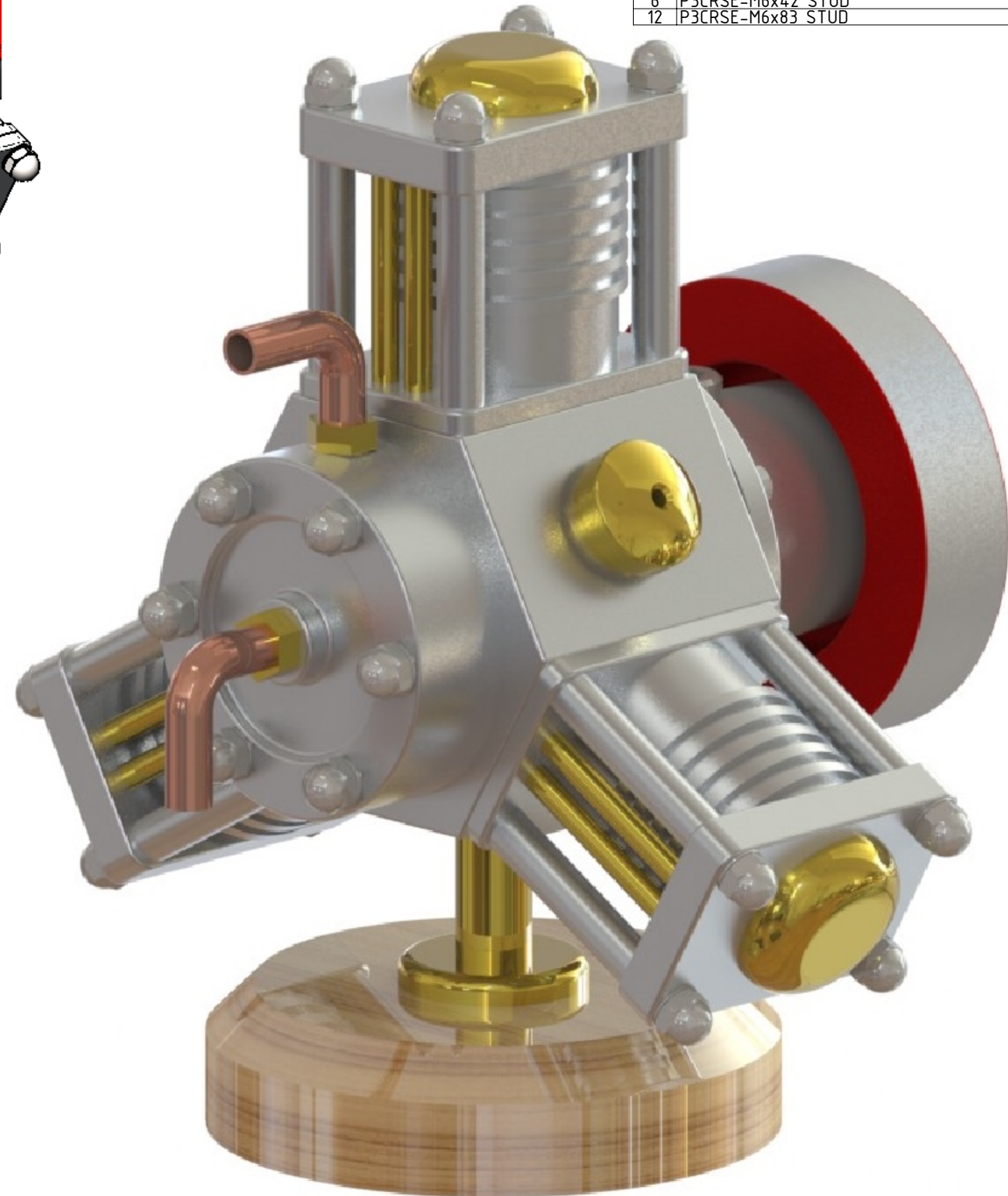
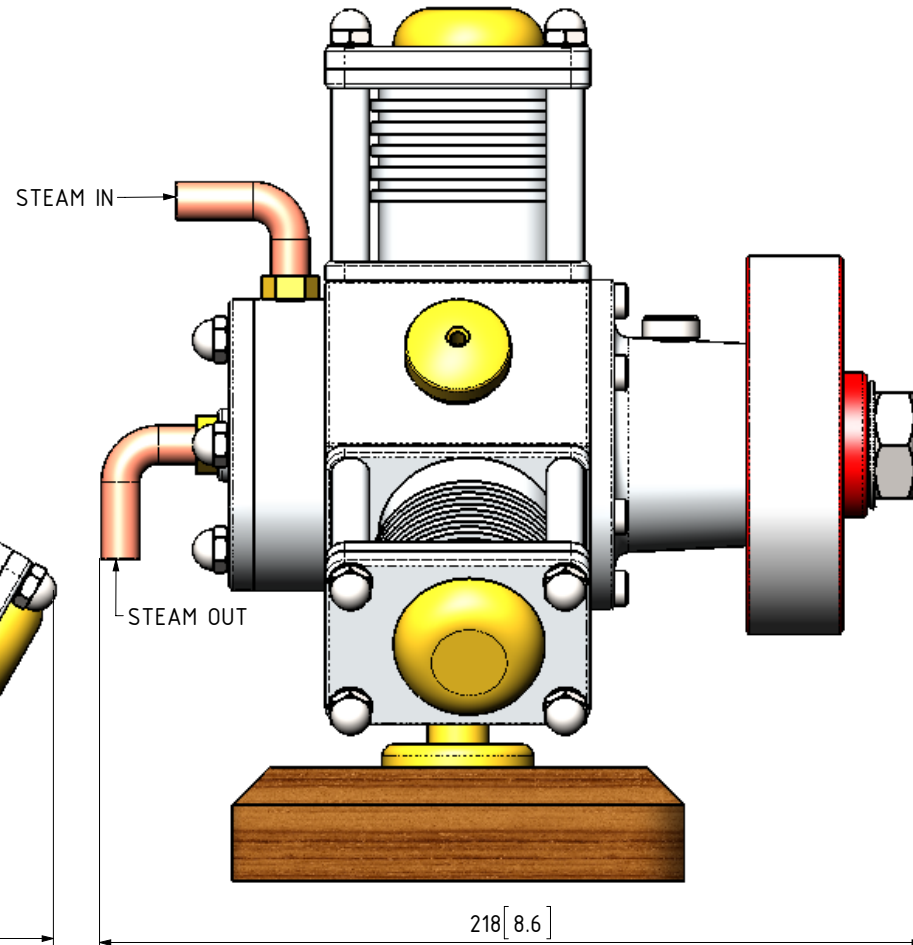
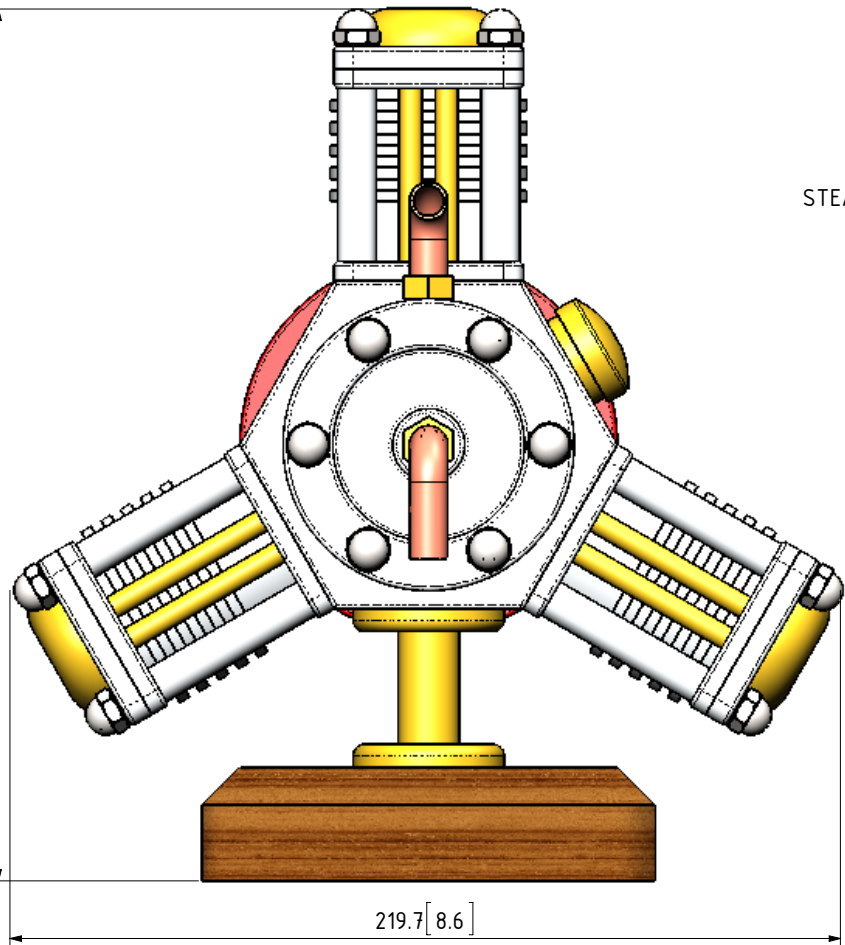


QTY.	PART NUMBER	QTY.	PART NUMBER
1	P3CRSE-01-CYLINDER BLOCK CRANK CASE	3	P3CRSE-21-GUDGION PIN
1	P3CRSE-02-CYLINDER BLOCK BREATHER	1	P3CRSE-22-CENTER CON ROD
1	P3CRSE-03-STEAM CHEST	2	P3CRSE-23-OUTER CON ROD
1	P3CRSE-04-STEAM CHEST COVER	1	P3CRSE-24-4mm PLUG
1	P3CRSE-05-PORT FLANGE	1	P3CRSE-25-5mm PLUG
1	P3CRSE-06-MAIN BEARING HOUSING	1	P3CRSE-26-6mm PLUG
3	P3CRSE-07-CYLINDER	1	P3CRSE-27-ORBITAL VALVE
3	P3CRSE-08-CYLINDER TOP FLANGE	1	P3CRSE-28-RETURN CRANK
3	P3CRSE-09-CYLINDER BOTTOM FLANGE	1	P3CRSE-29-STAND POST
3	P3CRSE-10-CYLINDER HEAD	2	P3CRSE-30-STEAM IN & OUTLETS
3	P3CRSE-11-CYLINDER HEAD DOME	1	P3CRSE-31-WOOD BASE
3	P3CRSE-12-CYLINDER LINING	12	P3CRSE-32-CYLINDER HEAD SPACER
6	P3CRSE-13-CYLINDER AIR TUBE	1	P3CRSE-M10 NUT
2	P3CRSE-14- BALL BEARING 19x44x14	1	P3CRSE-M10 WASHER
1	P3CRSE-15-CRANK SHAFT	1	P3CRSE-M10x10 P-HEAD A-KEY
1	P3CRSE-16-FLYWHEEL COLLET	1	P3CRSE-M16 NUT
1	P3CRSE-17-FLYWHEEL	1	P3CRSE-M16 WASHER
1	P3CRSE-18-CRANK SHAFT SPACER	3	P3CRSE-M4x15 C-SINK A-KEY SCREW
3	P3CRSE-19-PISTON	18	P3CRSE-M6 WASHER
6	P3CRSE-20-PISTON RING	18	P3CRSE-M6-DOME NUT
		6	P3CRSE-M6x13 P-HEAD A-KEY
		6	P3CRSE-M6x42 STUD
		12	P3CRSE-M6x83 STUD



NOTES: THIS ENGINE WAS DESIGNED AND BUILT BY Mr. STEWART HART (POTTY ENGINEERING)

TITLE

THREE CYLINDER RADIAL STEAM ENGINE

DRAWING CONTENTS

GENERAL ARRANGEMENT

PROJECT No 09-05-13

JDW DRAUGHTING SERVICES

J.A.M. DE WAAL, 12 BRIGHTWELL STREET PAPA KURA 2110.
NEW ZEALAND. PHONE: 0064 09 2988815. MOB: 0211791000
E-MAIL: dewaal@xtra.co.nz.

PROJECTION

DATE

APRIL 2014

SHEET:01 OF 03

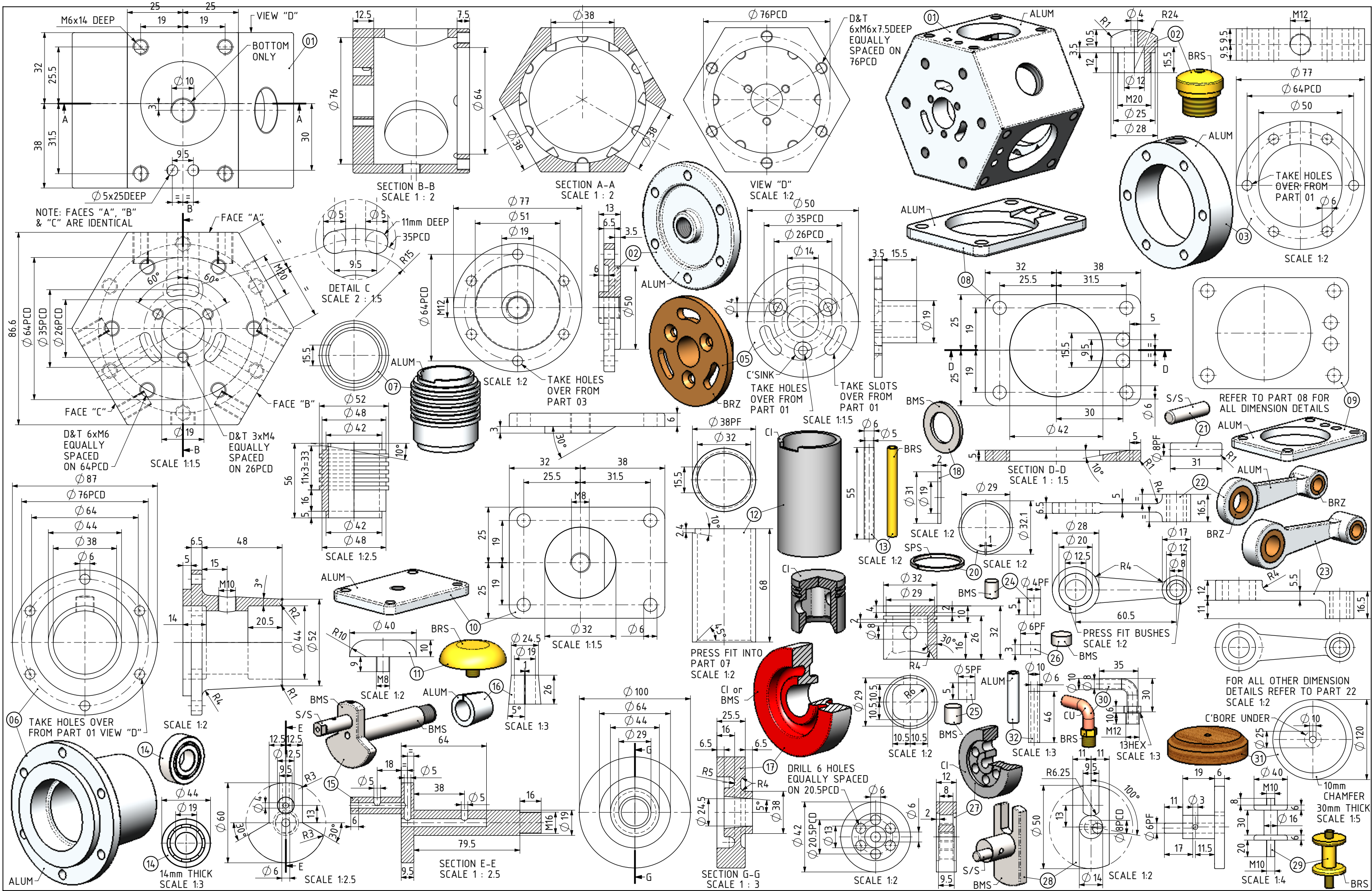
JDWDS

MODEL SCALE: 1:1

DWG SCALE: 1:1 @A3 OR AS SHOWN

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A3 No: P3CRSE-01



NOTES: THIS ENGINE WAS DESIGNED AND BUILT BY Mr. STEWART HART (POTTY ENGINEERING)

TITLE

THREE CYLINDER RADIAL STEAM ENGINE

DRAWING CONTENTS

PARTS AND ASSEMBLIES

PROJECT No 09-05-13

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

JDWDS

DATE APRIL 2014

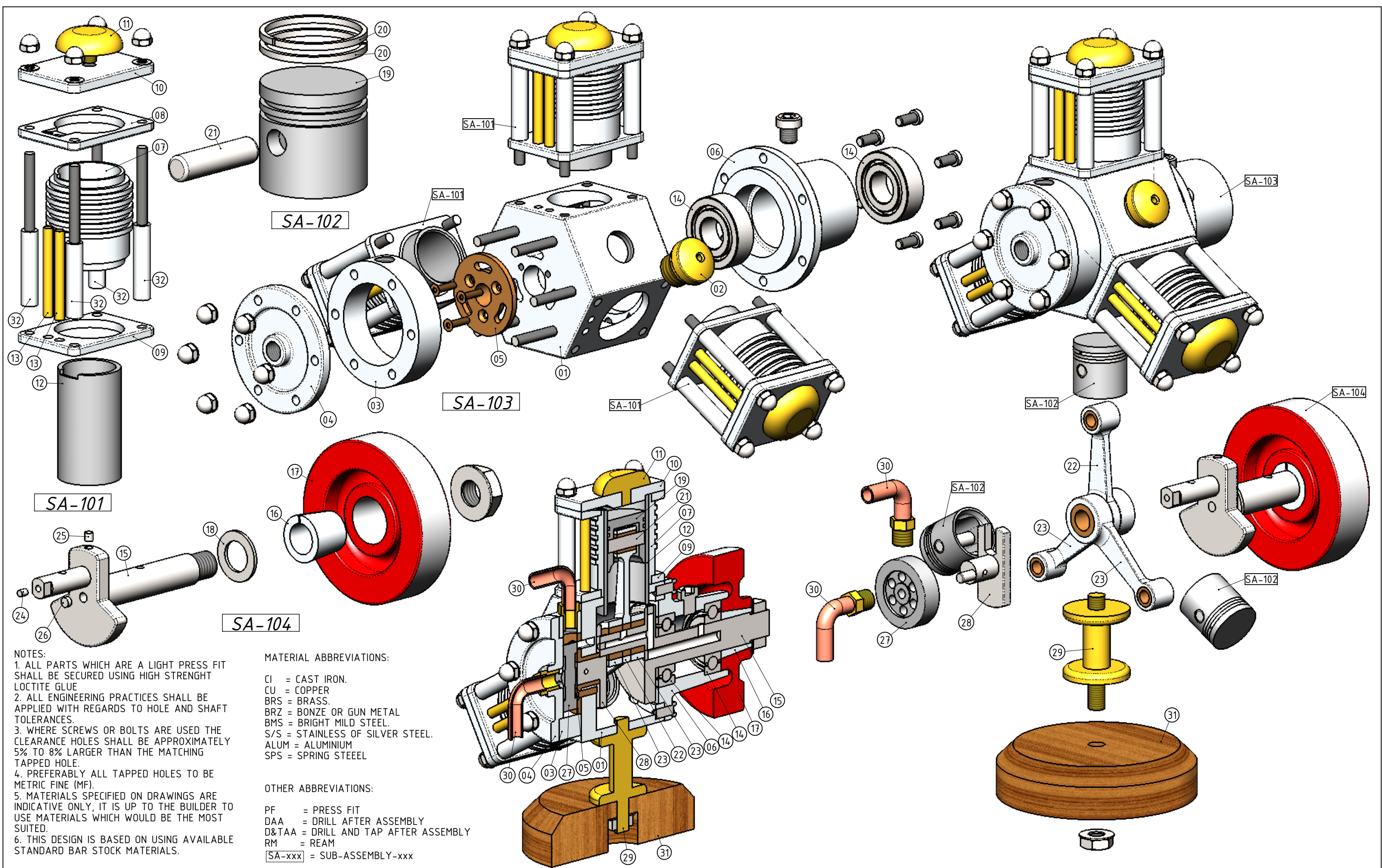
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MODEL SCALE: 1:1

DWG SCALE: 1:1 @A3 OR AS SHOWN

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A3 No: P3CRSE-02



NOTES:
1. ALL PARTS WHICH ARE A LIGHT PRESS FIT SHALL BE SECURED USING HIGH STRENGTH LOCTITE GLUE
2. ALL ENGINEERING PRACTICES SHALL BE APPLIED WITH REGARDS TO HOLE AND SHAFT TOLERANCES.
3. WHERE SCREWS OR BOLTS ARE USED THE CLEARANCE HOLES SHALL BE APPROXIMATELY 5% TO 8% LARGER THAN THE MATCHING TAPPED HOLE.
4. PREFERABLY ALL TAPPED HOLES TO BE METRIC FINE (MF).
5. MATERIALS SPECIFIED ON DRAWINGS ARE INDICATIVE ONLY, IT IS UP TO THE BUILDER TO USE MATERIALS WHICH WOULD BE THE MOST SUITED.
6. THIS DESIGN IS BASED ON USING AVAILABLE STANDARD BAR STOCK MATERIALS.

MATERIAL ABBREVIATIONS:
CI = CAST IRON.
CU = COPPER
BRS = BRASS.
BRZ = BONZE OR GUN METAL
BMS = BRIGHT MILD STEEL.
S/S = STAINLESS OF SILVER STEEL.
ALUM = ALUMINIUM
SPS = SPRING STEEL

OTHER ABBREVIATIONS:
PF = PRESS FIT
DAA = DRILL AFTER ASSEMBLY
D&TAA = DRILL AND TAP AFTER ASSEMBLY
RM = REAM
SA-xxx = SUB-ASSEMBLY-xxx

NOTES: THIS ENGINE WAS DESIGNED AND BUILT BY Mr. STEWART HART (POTTY ENGINEERING)

TITLE
THREE CYLINDER RADIAL STEAM ENGINE

DRAWING CONTENTS
PARTS AND ASSEMBLIES

PROJECT No 09-05-13
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 SHEET:03 OF 03	JDWDS APRIL 2014 A3	MODEL SCALE: 1:1 DWG SCALE: 1:1 @A3 OR AS SHOWN Copyright © J.A.M. DE WAAL PAKAPURA NZ No: P3CRSE-03
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