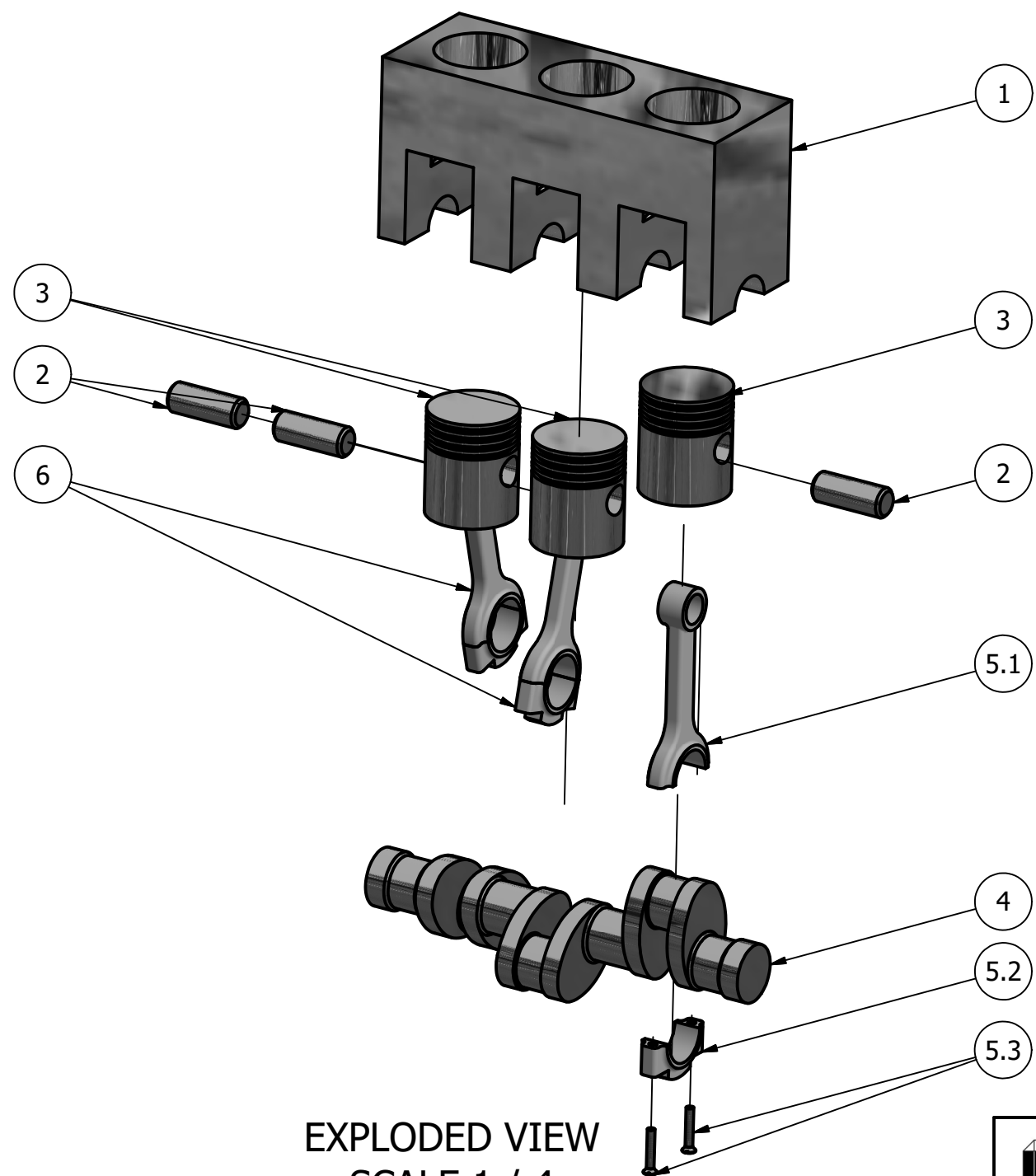


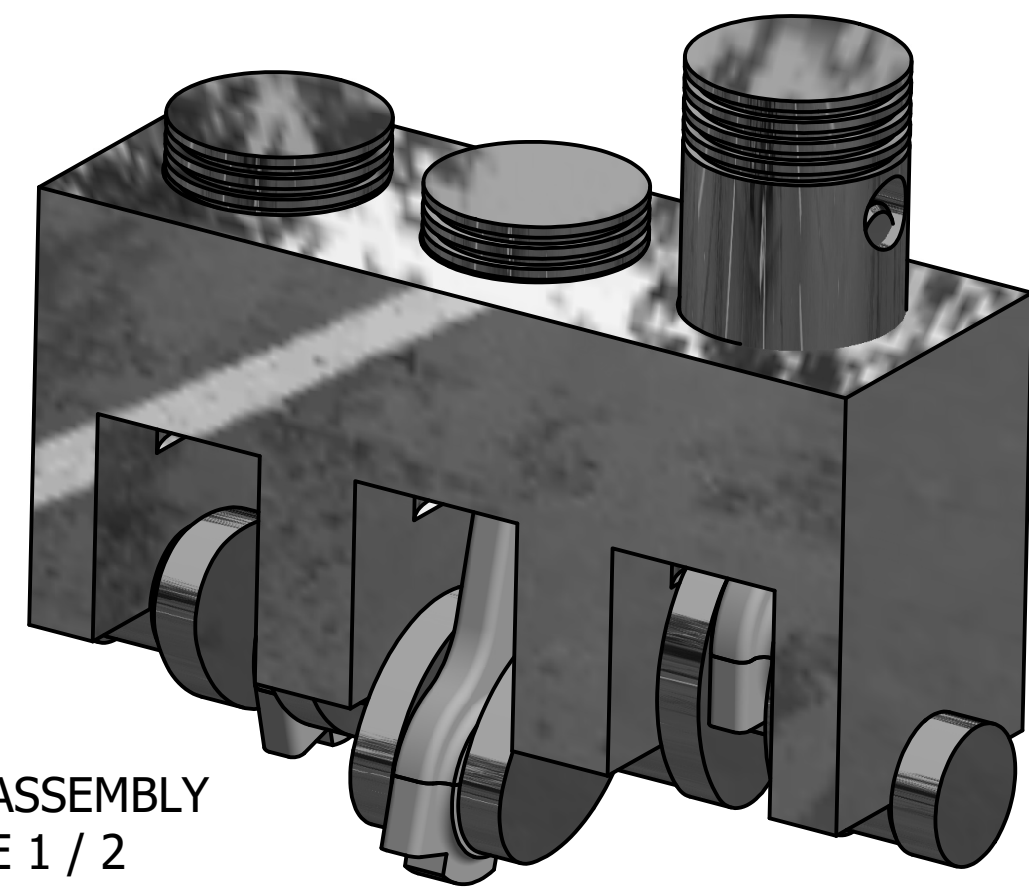
PARTS LIST			
ITEM	QTY	PART NUMBER	MATERIAL
1	1	ENGINE BLOCK	ALUMINUM 6061
2	3	PISTON PIN	STEEL, ALLOY
3	3	PISTON	STEEL, ALLOY
4	1	CRANK SHAFT	STEEL, ALLOY
5	3	CONNECTING ROD SUB ASSEMBLY	
5.1	3	CONNECTING ROD TOP	STEEL, ALLOY
5.2	3	CONNECTING ROD BOTTOM	STEEL, ALLOY
5.3	6	ANSI B18.6.7M -A - M5x30	STEEL, MILD



EXPLODED VIEW
SCALE 1 / 4

GENERAL NOTES:
 ALL FILLETS AND ROUNDS ARE R3
 UNLESS SPECIFIED
 ALL CHAMFERS ARE 2 X 45°
 UNLESS SPECIFIED

METRIC



MASTER ASSEMBLY
SCALE 1 / 2

LEGEND:
 Ø DIAMETER
 R RADIUS
 ° DEGREES
 ▽ DEPTH



DIGITAL DESIGN
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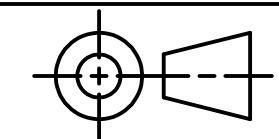


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TOLERANCES UNLESS SPECIFIED:
 MILLIMETERS:
 WHOLE NUMBER = ±.5
 X = ±.25
 XX = ±.12

ANGLES ±1 DEGREE

SURFACES 32 ✓

COURSE: DDGT240

INVENTOR DRAWING NAME:
 ENGINE MODEL

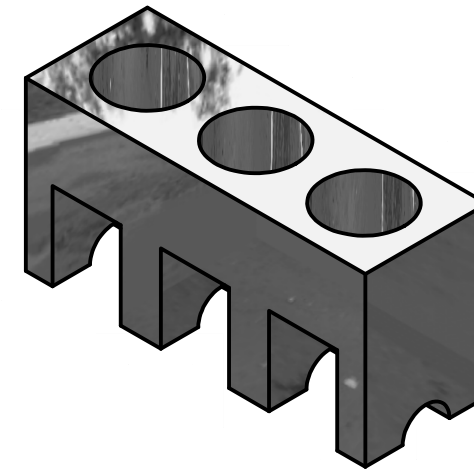
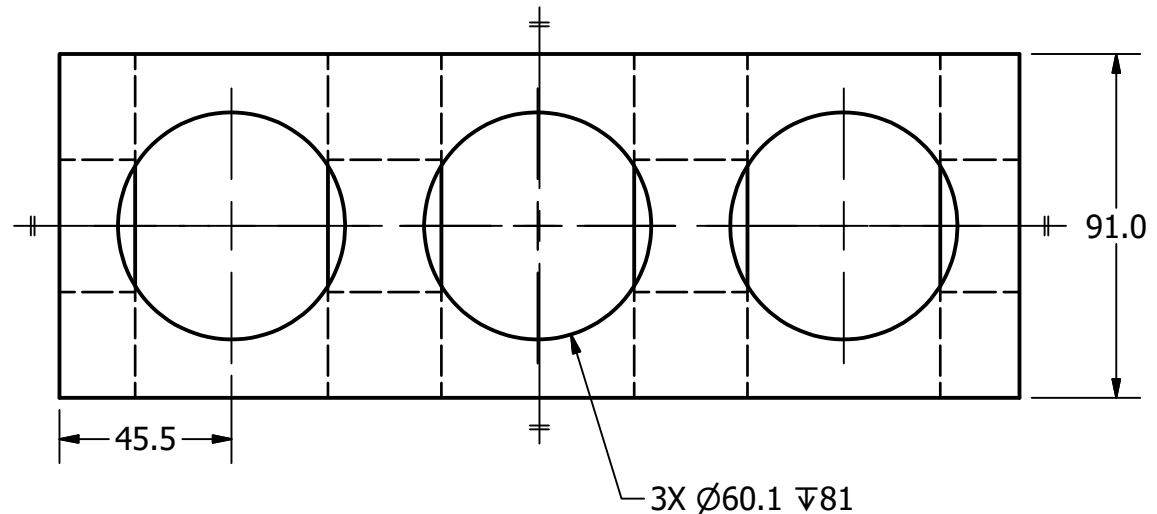
FIG #: 20.69

DRAFTER: J.WILLIAMS

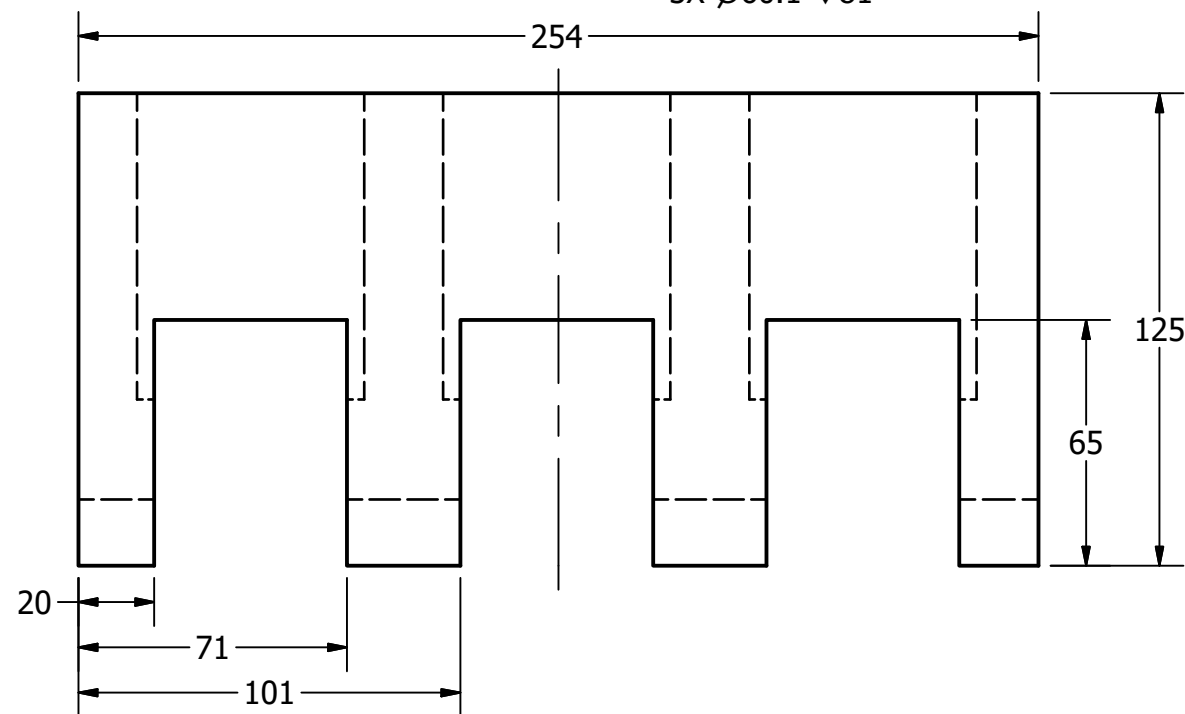
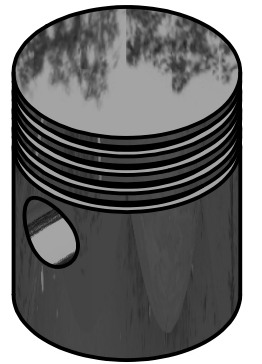
DATE: 10/2/2019

SCALE: AS NOTED

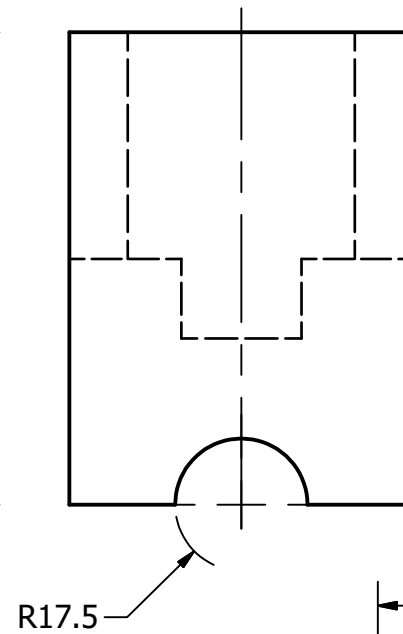
PAGE #: 1 OF 3



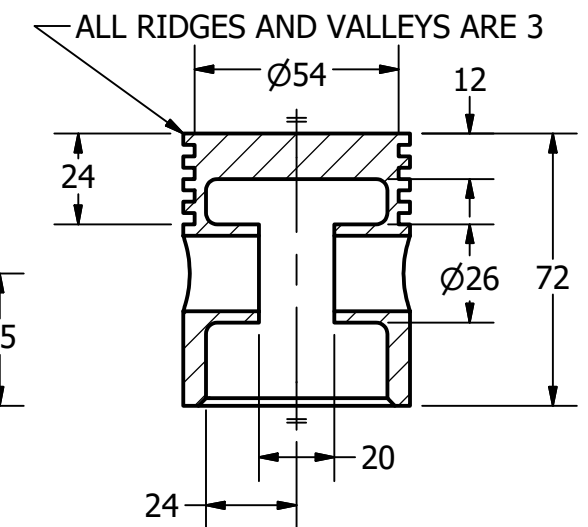
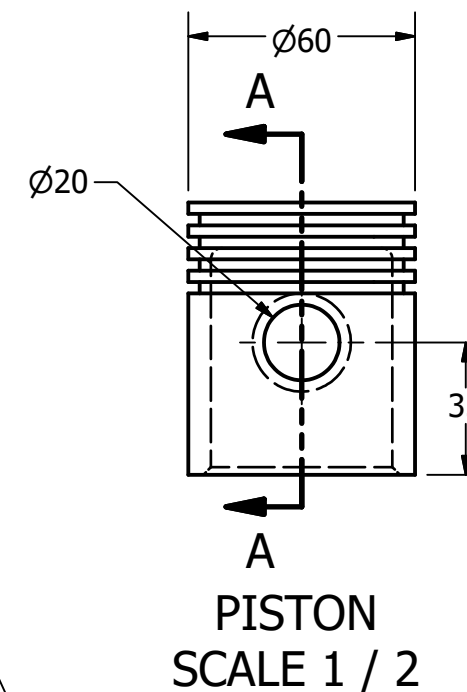
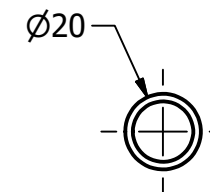
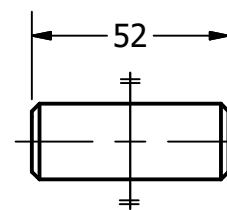
PARTS LIST		
ITEM	QTY	PART NUMBER
1	1	ENGINE BLOCK
2	3	PISTON PIN
3	3	PISTON



ENGINE BLOCK
SCALE 1 / 2



PISTON PIN
SCALE 1 / 2



LEGEND:

\varnothing	DIAMETER
R	RADIUS
\circ	DEGREES
∇	DEPTH

METRIC

GENERAL NOTES:
 ALL FILLETS AND ROUNDS ARE R3
 UNLESS SPECIFIED
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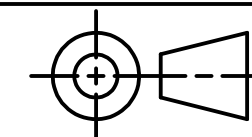


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TOLERANCES UNLESS SPECIFIED:
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 WHOLE NUMBER = ± 0.5
 X = ± 0.25
 XX = ± 0.12

ANGLES ± 1 DEGREE

SURFACES $\sqrt{32}$

COURSE: DDGT240

INVENTOR DRAWING NAME:
 ENGINE MODEL

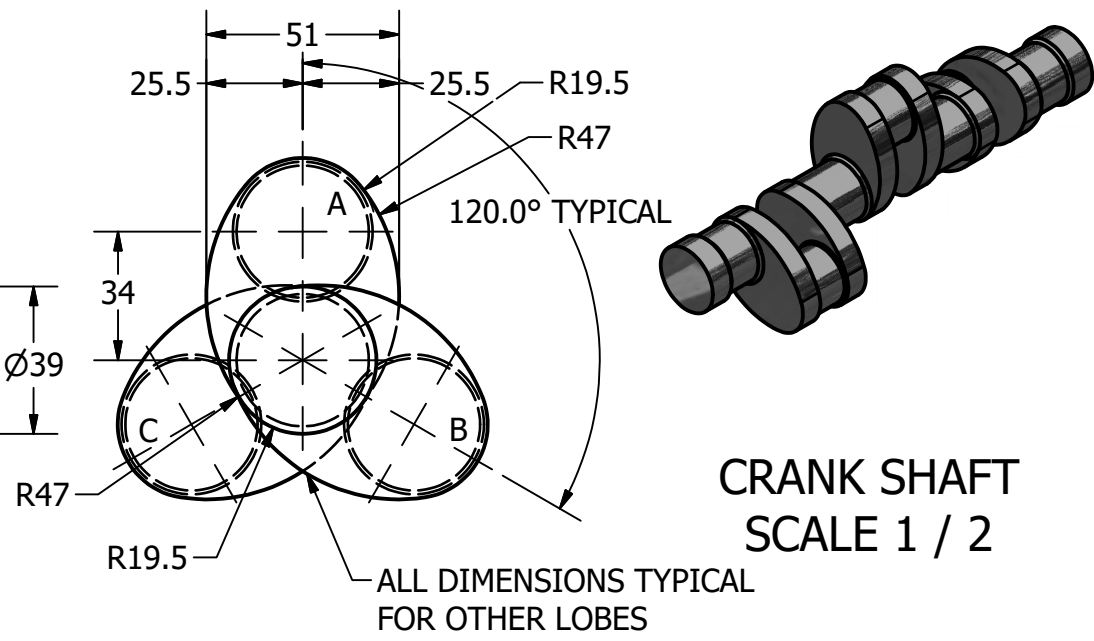
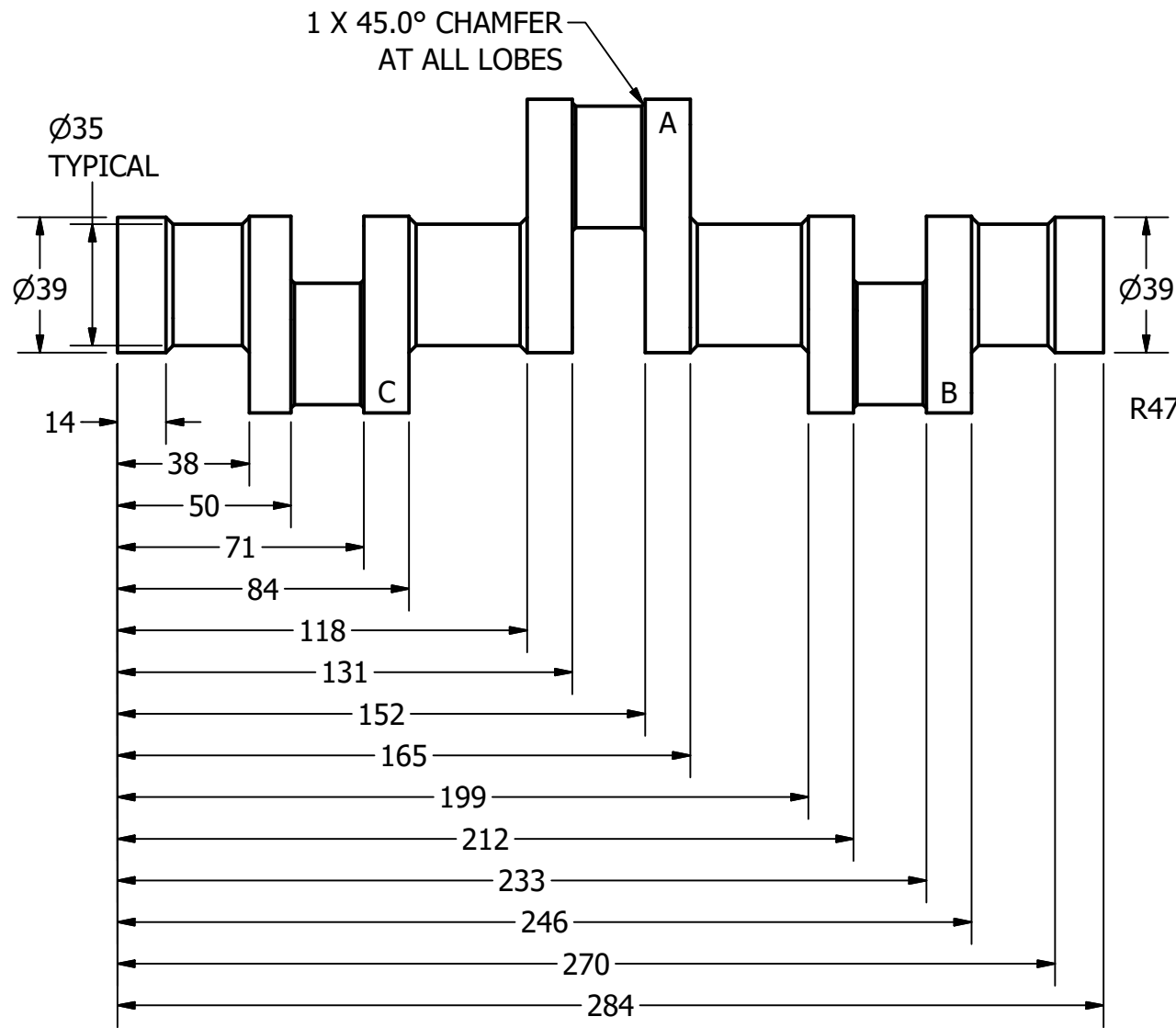
FIG #: 20.69

DRAFTER: J.WILLIAMS

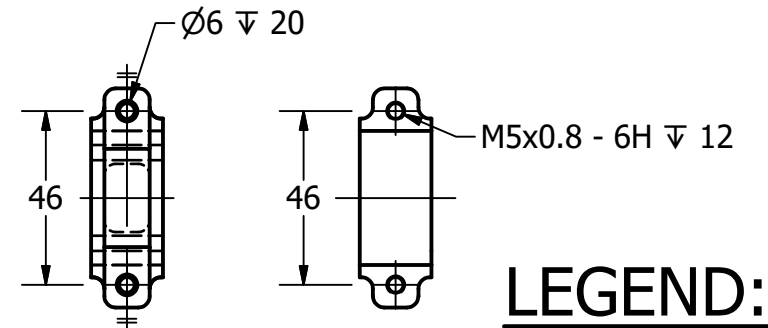
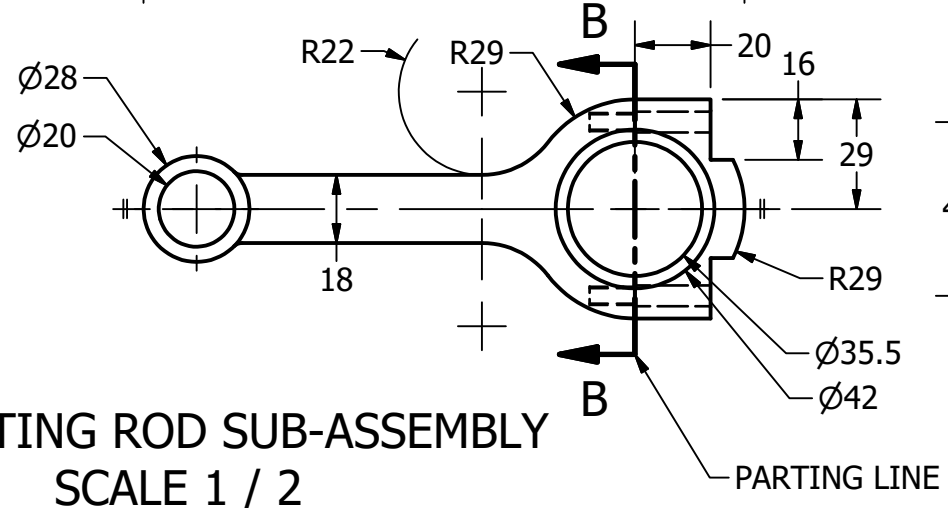
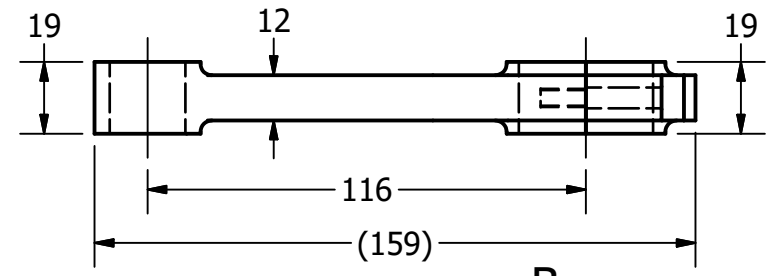
DATE: 10/2/2019

SCALE: AS NOTED

PAGE #: 2 OF 3



PARTS LIST		
ITEM	QTY	PART NUMBER
4	1	CRANK SHAFT
5	3	CONNECTING ROD SUB ASSEMBLY
5.1	3	CONNECTING ROD TOP
5.2	3	CONNECTING ROD BOTTOM



LEGEND:

- Ø DIAMETER
- R RADIUS
- ° DEGREES
- √ DEPTH

CONNECTING ROD SUB-ASSEMBLY SCALE 1 / 2

METRIC

GENERAL NOTES:
 ALL FILLETS AND ROUNDS ARE R3 UNLESS SPECIFIED
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DIGITAL DESIGN GRAPHICS TECHNOLOGY

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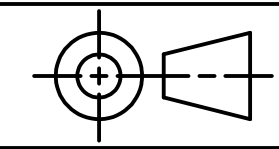


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 ANGLES ±1 DEGREE
 SURFACES 32 ✓

COURSE:	DDGT240
INVENTOR DRAWING NAME:	ENGINE MODEL
FIG #:	20.69
DRAFTER:	J.WILLIAMS
DATE:	10/2/2019
SCALE:	AS NOTED
PAGE #:	3 OF 3