



V8 SUPERCARS AUSTRALIA PTY LTD
ACN 077 053 484
45 NERANG STREET
SOUTHPORT QLD 4215
PO BOX 607 SOUTHPORT BC QLD 4215
T 07 5630 0364
E RECEPTION@SUPERCARS.COM
SUPERCARS.COM

Invitation to Tender for Supercars Control Driveline 2021-2025

1. Introduction

The governing body of Supercars Australia is seeking tenders for the exclusive supply of the control driveline. The supply agreement shall commence in 2021 to facilitate the development of the sport's new racing platform and prototype, GEN3, to be raced at the commencement of 2022 Supercars championship season. The supply agreement is for a term of 5 years.

As part of the process, we are looking at various options which are listed in this document.

2. Timeline

- | | |
|---|----------------|
| a. Supercars issue RFQ | Mon 08/03/2021 |
| b. All questions relating to RFQ sent to Supercars | Fri 12/03/2021 |
| c. Final quotes received | Fri 19/03/2021 |
| d. Selection date (SC may vary this date at its discretion) | Wed 24/03/2021 |

SC reserves the right to introduce a second round of consultation with selected suppliers between item c and d. which consequently may delay the selection date.



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3. Technical Requirements

- a) Tailshaft
 - a. See Appendix B for drawing.
 - b. Service life of a minimum of 10000km.
- b) Centre bearing mount
 - a. See Appendix B for drawing.
- c) Axles
 - a. See Appendix B for drawing.
 - b. Service life of a minimum of 10000km.
- d) Bellhousing assembly (plate, cover, releaser mount)
 - a. See Appendix B for drawing.
 - b. Supercars will work with the successful tenderer to finalise the specification once the clutch and clutch release system have been awarded.
- e) Bellhousing input shaft
 - a. See Appendix B for drawing.
 - b. Supercars will work with the successful tenderer to finalise the specification. The area of possible change is the spigot length.
- f) Clutch and Clutch master sleeve
 - a. Maximum torque 680NM.
 - b. Both pull or push action will be considered.
 - c. All material options will be considered.
 - d. Locally serviceable.



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4. Commercial

- a. Current projections include a starting grid of 24 Supercars in 2022 however this number may change marginally depending on the total number of Racing Entitlement Contracts "RECs" issued prior to the commencement of the 2022 Supercars Championship. Additional supply requirements will be in accordance with demand. A minimum of two manufacturers are presently expected to be on the grid in 2022.
- b. The tenderer can opt to tender for the complete package or any element of it, however tendering for the whole control driveline may be more attractive to Supercars. The tenderer may elect to tender to supply any one or more of the components and this will be considered by Supercars.
- c. Attached with this tender is a pricing table excel workbook. You must complete and return the excel workbook by completing the pricing table for each component you wish to tender:

When completing the pricing table:

- i. Please list the products you wish to tender and a brief description.
 - ii. Please indicate the price per product.
 - iii. Please provide your pricing based on:
 1. an MOQ of 36 for each component (double for axles).
 2. an MOQ for spare component orders.
 - iv. Please provide your pricing in AUD, CIF Brisbane, Australia including applicable taxes (excluding GST, import duties, and handling ex Brisbane).
 - v. Please specify your payment terms.
 - vi. If you have any questions completing the pricing tables, please email Mark Adams madams@supercars.com
- d. The supplier is not required to provide track support for race meetings and Supercars Test Days.
 - e. The supplier must ensure that the availability of parts throughout the duration of the agreement will not directly impact Supercars' supply and/or cost.
 - f. Prices quoted in year 1 remain fixed for the duration of the agreement.
 - g. Prices must be quoted in AUD. The foreign exchange risk will remain with the supplier.
 - h. The successful control supplier will contract directly with Supercars Australia and will be prohibited from entering into any arrangement or agreement with individual Supercars Teams.
 - i. Prototype components sufficient for two (2) Supercars must be supplied to Supercars at its nominated address by no later than Monday, 12 April 2021. The supply and distribution of these prototype components will be at the cost of the supplier.



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For all discussions relating to commercial opportunities with Supercars, please contact Cameron Price (CFO; cprice@supercars.com) and Jamie Black (General Manager – Commercial; jblack@supercars.com) within the previous timeline provided.

5. Control Driveline Sign Off Test

Track testing is required to sign off the part. If occurring outside a session organized by Supercars, the organization and cost is the responsibility of the control supplier.

6. Tender Document

It is expected that each tender document will include the following:

- a. Complete bill of material, including component weights, defining all components to support the function of the control driveline and a CAD file in STEP format.
- b. Approach of the engineering phase, if required, and detailed timing plan including the sign off testing.
- c. The warranty terms and conditions that will apply to the control driveline parts detailing limits for all relevant parameters.
- d. As much as is possible, details of any projects the potential supplier/manufacturer has delivered or is delivering which relate to the technical or operational aspects of this projects. For each project, the role of the supplier/manufacturer should be detailed and with whom the contract exists or existed.

7. Delivery point

All tenders should be delivered (either by post, e-mail) to:

Mr. Vincent Dumarski
Technical Projects Manager
Supercars Australia Pty Ltd
45 Nerang Street
Southport, Qld 4215

E-mail: vdumarski@supercars.com



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8. Final Note

The selection of the winning bidder will be at Supercars' complete discretion. Additionally, there is no guarantee that a bidder will be successful.

Appendix A

Brisbane & GC Area: 3 Teams (6 Cars)

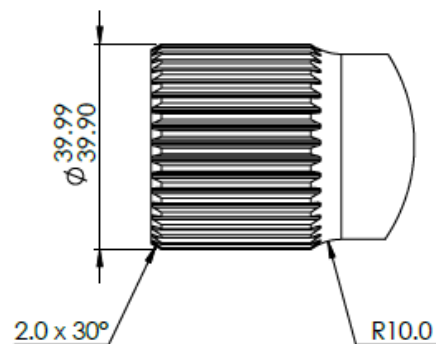
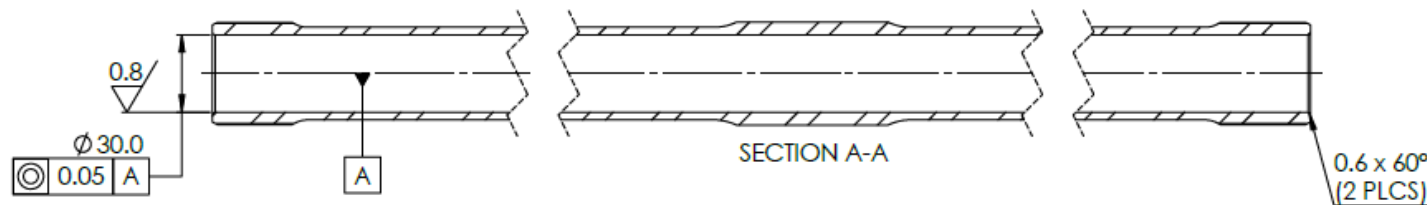
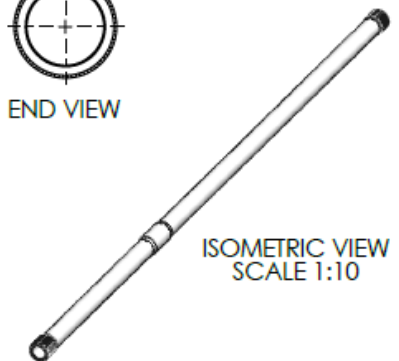
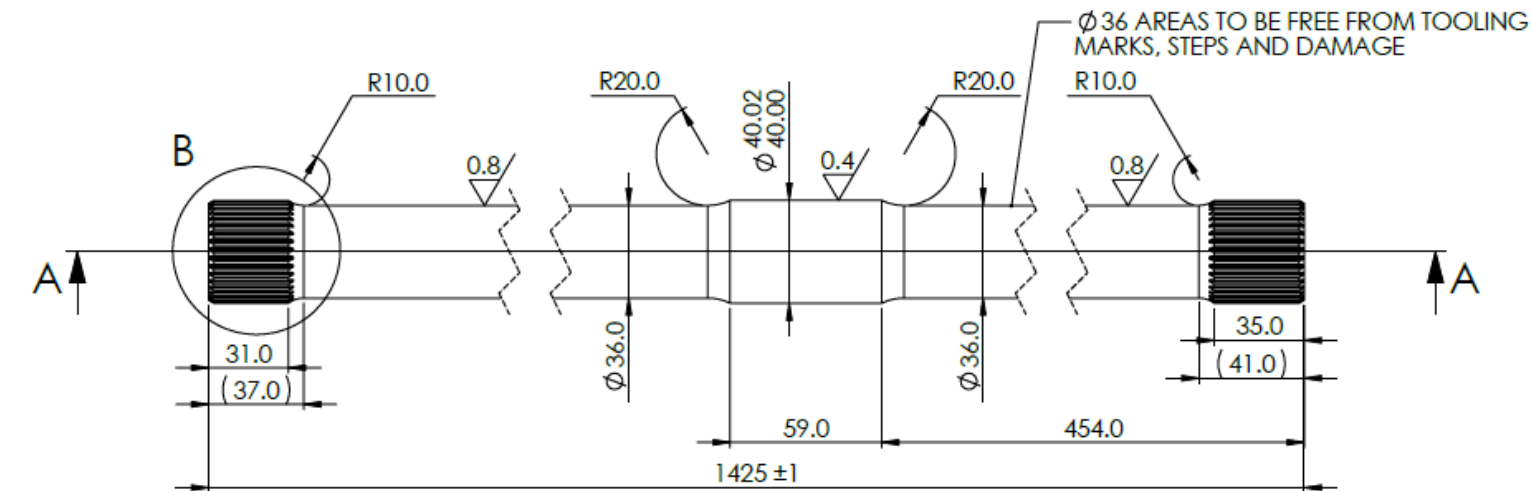
Melbourne: 6 Teams (14 Cars)

Albury: 1 Team (4 Cars)

Sydney: 1 Team (2 Cars)

Appendix B

DRAWINGS



SPLINE DETAILS:
 NUMBER OF TEETH - 37
 MODULE - 1.0583 (24/48)
 PRESSURE ANGLE - 30°
 TYPE OF SPLINE - FILLET ROOT, SIDE FIT
 CROWNING - 0.10MM ON RADIUS
 CENTRE OF CROWNING - MIDDLE OF SPLINE
 HOBBED PIN MEASUREMENT - 40.75 - 40.79
 FINISHED PIN MEASUREMENT - 40.76 - 40.81
 DIAMETER OF MEASURING PIN - 1.58
 CUT DEPTH - 1.59 (ON RADIUS)

DETAIL B
 SCALE 1 : 1

P01	INITIAL RELEASE	JM	18-12-2020
Issue	Description	Initial	Date
REVISIONS			
Next Highest Assembly	AN-5023	No./ASM	1
Mat'l Spec	4130 D4	Mass	3692.59g
Treatm't	AS RECOMMENDED BY SUPPLIED		
Finish	HOT BLACK OXIDE		
Designed	Jeromy Moore	Date	18/12/2020
Approved	Mitch Seymour	Date	18/12/2020



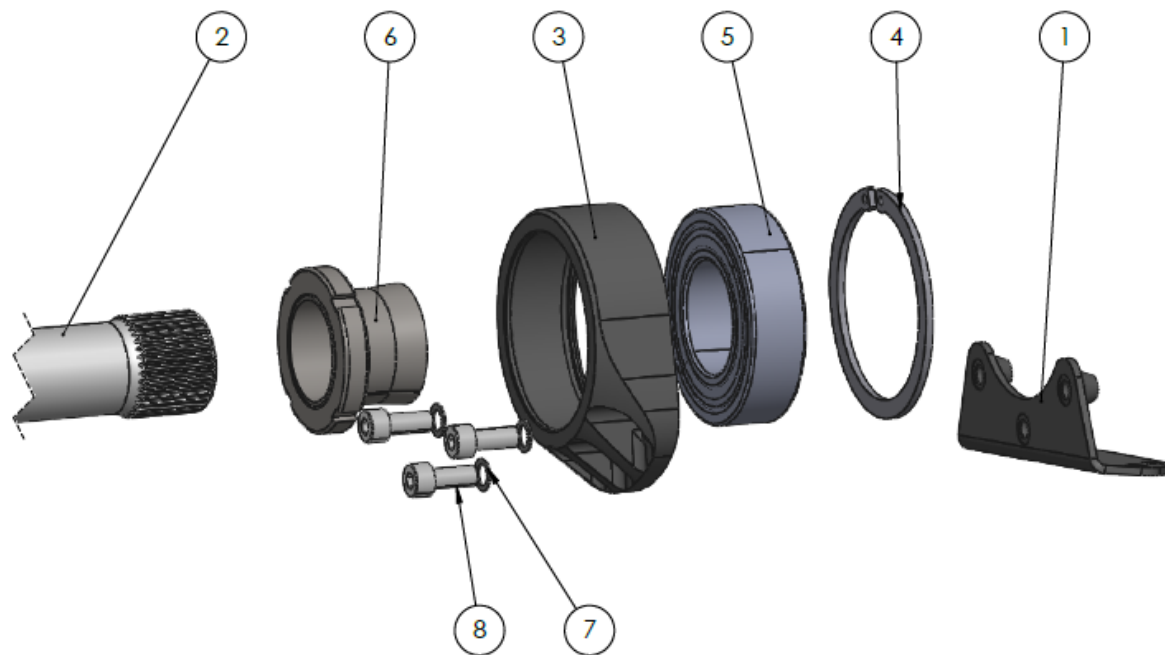
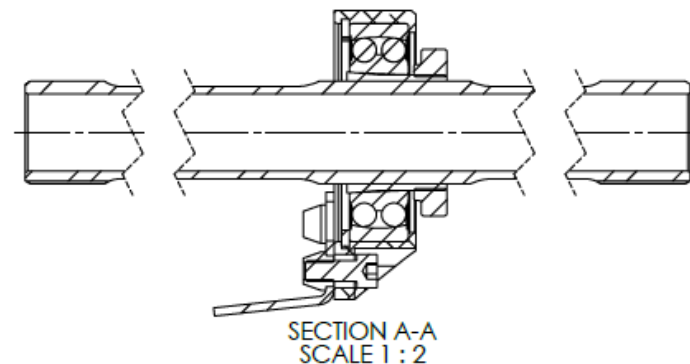
GEN. LIMITS UNLESS STATED
 NO PLACES DEC. ± 0.25mm
 1 PLACE DEC. ± 0.10mm
 2 PLACES DEC. ± 0.05mm
 ANGLE NO PLACES DEC. ± 0.50°
 ANGLE 1 PLACE DEC. ± 0.25°
 ANGLE 2 PLACES DEC. ± 0.10°
 SURFACE FINISH 1.6/
 UNLESS STATED
 ALL UNSPECIFIED DIMENSIONS ARE IN mm

Title **TAILSHAFT GEN 3
 MUSTARO**

THIRD ANGLE PROJECTION	SHEET SIZE A3	Scale	1:2
Drawing Number	Issue	Sheet	Of
AN-5027	P01	1	1

Associated Drawing:

ITEM	PART	REV.	DESCRIPTION	QTY.
1	AC-5436	-	TUNNEL BRACE FAB ASSEM - TAILSHAFT ASSEM - GEN 3	1
2	AN-5027	P01	TAILSHAFT GEN 3 MUSTARO	1
3	AN-5037	P01	MOUNT - CENTRE BEARING - GEN3	1
4	HW-2586	A	D1300-0160 INTERNAL CIRCLIP	1
5	HW-2605	-	SKF MISALIGNMENT BEARING 2209 E-2RS1KTN9	1
6	HW-2606	-	SKF SHAFT SLEEVE H 309 E	1
7	HW-0813	-	M8 SCHNORR WASHER	3
8	HW-0381	A	M8 x 20 SOCKET HEAD CAP SCREW	3



P01	INITIAL RELEASE	JM	18/12/2020
Issue	Description	Initial	Date
REVISIONS			
Next Highest Assembly	AN-5000	No./ASM	1
Mat'l Spec	SEE PARTS	Mass	0.00g
Treatm't	SEE PARTS		
Finish	SEE PARTS		
Designed	Jeromy Moore	Date	17/07/2020
Approved	Mitch Seymour	Date	18/12/2020

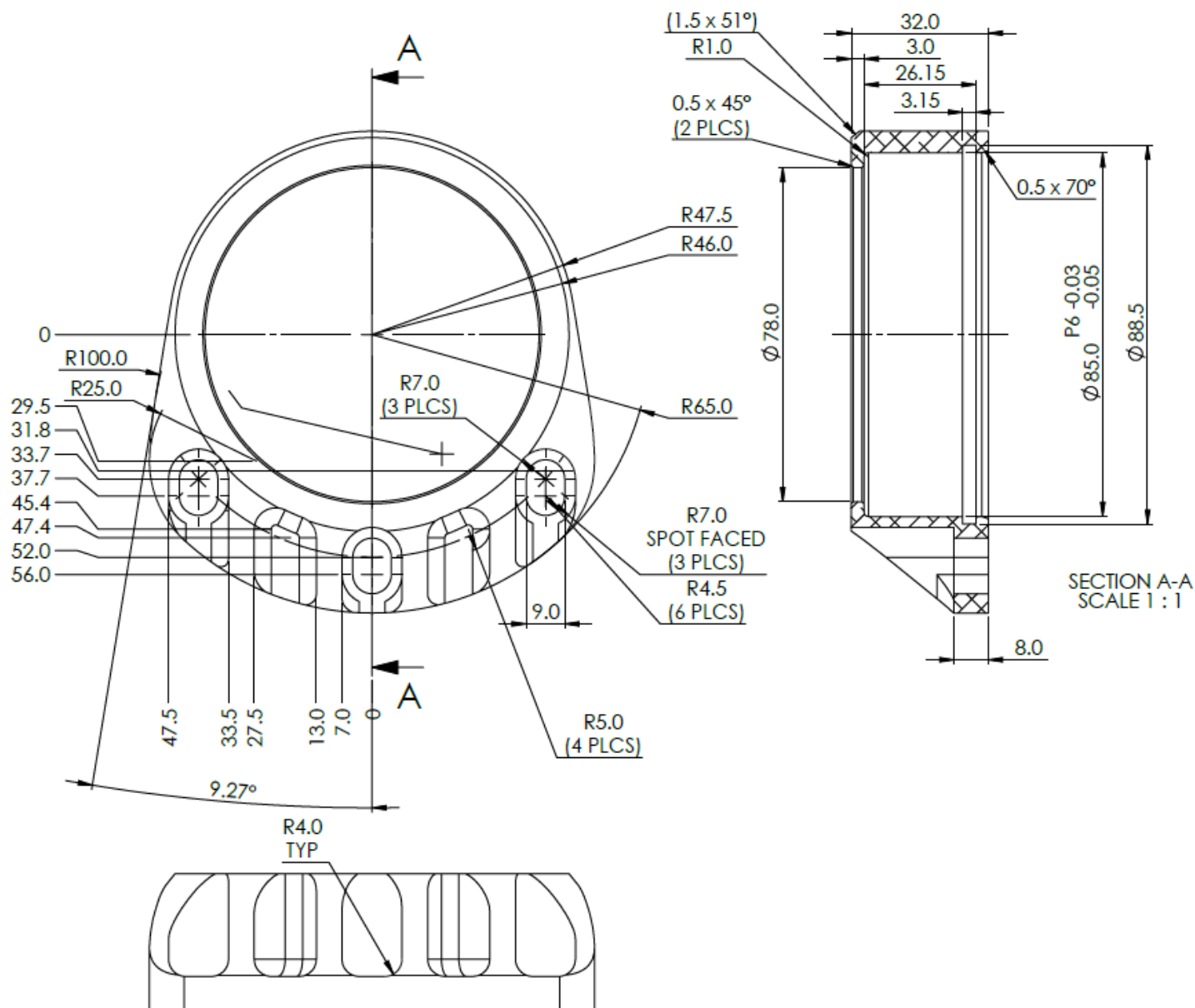


GEN. LIMITS UNLESS STATED
 NO PLACES DEC. $\pm 0.25\text{mm}$
 1 PLACE DEC. $\pm 0.10\text{mm}$
 2 PLACES DEC. $\pm 0.05\text{mm}$
 ANGLE 1 PLACE DEC. $\pm 0.50^\circ$
 ANGLE 2 PLACES DEC. $\pm 0.20^\circ$
 SURFACE FINISH $3.2/\sqrt{\text{ }}$
 UNLESS STATED
 ALL UNSPECIFIED DIMENSIONS ARE IN mm

Title **TAILSHAFT ASSEMBLY
GEN 3**

THIRD ANGLE PROJECTION		SHEET SIZE A3	Scale 1:10
Drawing Number AN-5023	Issue P01	Sheet 1	Of 1

Associated Drawing:



ISOMETRIC VIEW

P01	INITIAL RELEASE	JM	18/12/2020
Issue	Description	Initial	Date
REVISIONS			
Next Highest Assembly	AN-5027	No./ASM	1
Mat'l Spec	7075-T6	Mass	204.11g
Treatm't	NONE		
Finish	ANODISED - BLACK		
Designed	Jeromy Moore	Date	18/12/2020
Approved	Mitch Seymour	Date	18/12/2020



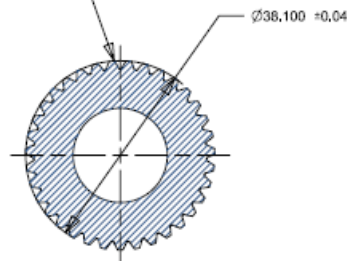
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 NO PLACES DEC. $\pm 0.25\text{mm}$
 1 PLACE DEC. $\pm 0.10\text{mm}$
 2 PLACES DEC. $\pm 0.05\text{mm}$
 ANGLE NO PLACES DEC. $\pm 0.50^\circ$
 ANGLE 1 PLACE DEC. $\pm 0.25^\circ$
 ANGLE 2 PLACES DEC. $\pm 0.10^\circ$
 SURFACE FINISH 1.6
 UNLESS STATED
 ALL UNSPECIFIED DIMENSIONS ARE IN mm

Title **MOUNT - CENTRE BEARING - GEN3**

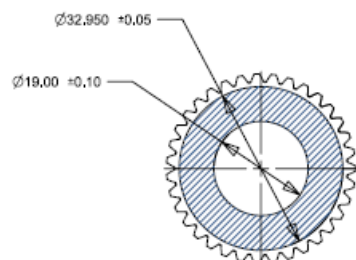
THIRD ANGLE PROJECTION		SHEET SIZE	A3	Scale	1:2
Drawing Number	AC-5037	Issue	P01	Sheet	1
				Of	1

Associated Drawing:

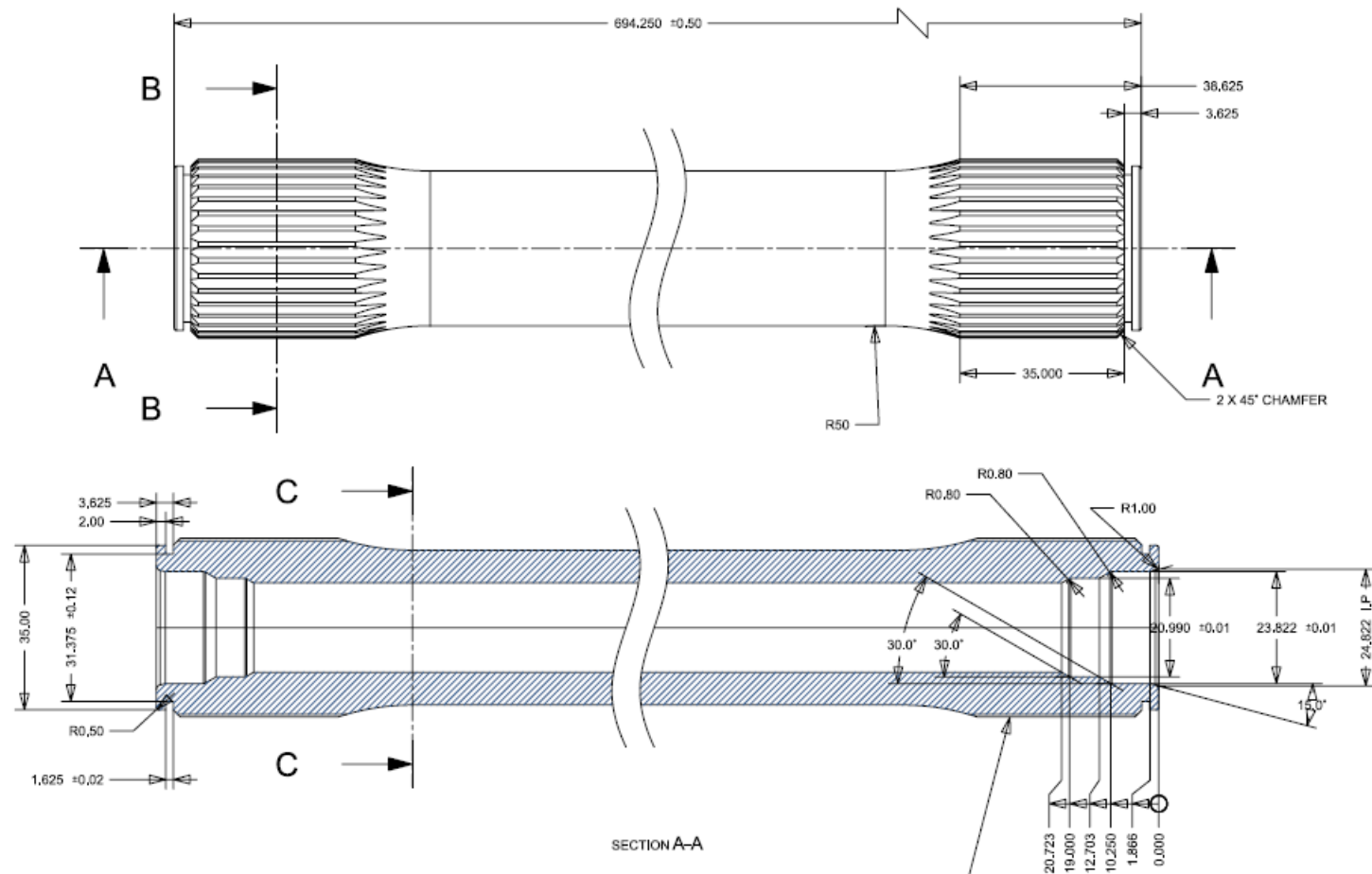
ANSI FILLET ROOT SPILE
35 SPILE
24/48 PITCH
30° PRESSURE ANGLE
TRIPODE FIT, TIGHT TAP ON



SECTION B-B



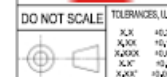
SECTION C-C



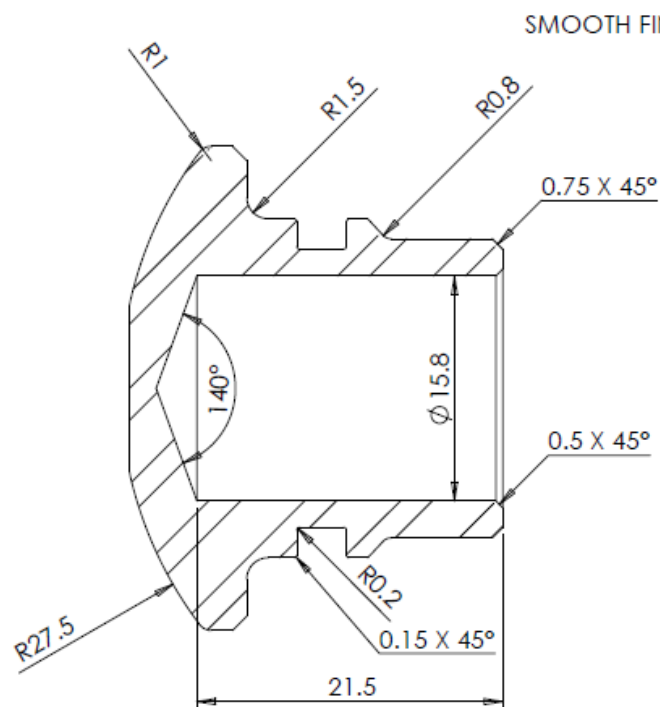
SECTION A-A

ALL DETAILS COMMON FROM EACH END, PART SYM ABOUT BOTH CENTRELINES

- NOTES:
1. REMOVE ALL BURRS & BREAK ALL UN-SPECIFIED SHARP EDGES 0.25 MAX;
INSIDE CORNERS 0.25 MAX RAD.
 2. TOTAL RUNOUT FOR ALL DIAMETERS TO NOT EXCEED .25 T.I.R, WITH
REFERENCE TO DATUM A-A UNLESS NOTED OTHERWISE.
 3. MACHINE 0.8 Ra MAX. FINISH ON ALL SURFACES UNLESS SPECIFIED OTHERWISE
 4. PART IS SYMMETRIC ALONG CENTERLINE "A-A"

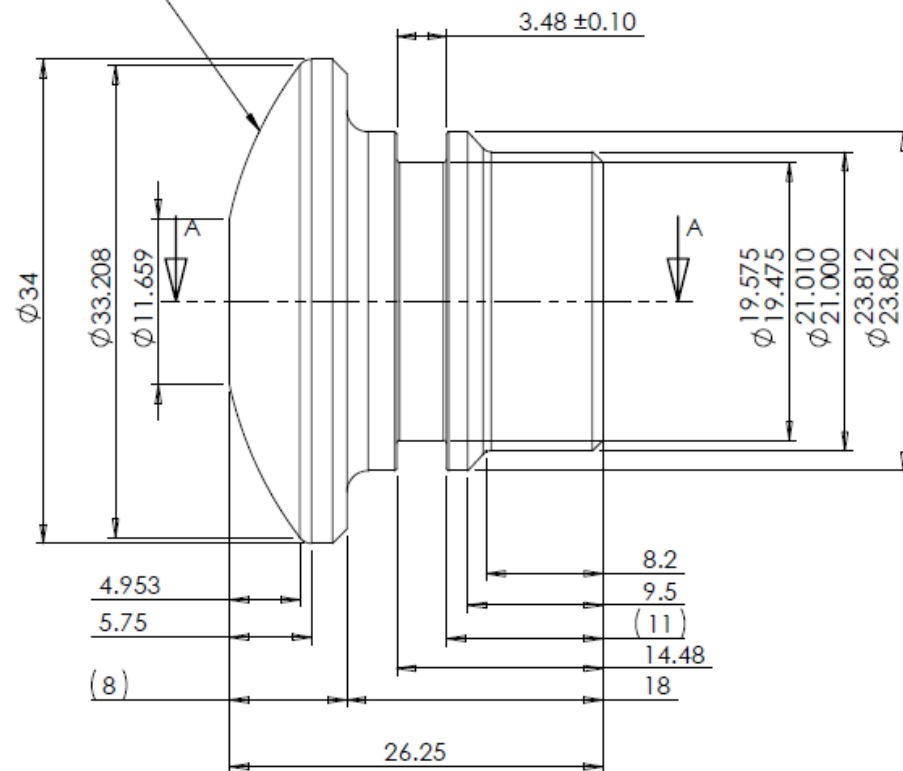


REVISION	15-Dec-2020	CHECK AND INITIAL RELEASE	PK
DATE		REVISION DESCRIPTION	NEALS
DEBURR ENTIRE PART AND BREAK SHARP EDGES U.O.S		MATERIAL	300M
SURFACE TREATMENT		THROUGH HARDENED & SHOT PEENED	ITEM NUMBER TP00255568/A
DRAWN		Perry Kapper	DATE 15-Dec-2020
DESCRIPTION		AXLE - GEN 3	REVISION
			DP255569
			A
			1 OF 1
			SCALE 1:1
			A3



SECTION A-A

SMOOTH FINISH REQUIRED



FINISH:

DEBUR AND
BREAK ALL SHARP
EDGES WITH .5mm
FILLET UNLESS
SPECIFIED

DO NOT SCALE DRAWING

REVISION



ISSUE	REVISION	NAME	DATE
A	INITIAL RELEASE	DC	02/08/12

ALL DIMENSIONS ARE
IN MILLIMETERS UNLESS
SPECIFIED

GENERAL TOLERANCES
NO PLACES DEC. +/- 0.25
1 PLACES DEC. +/- 0.10
2 PLACES DEC. +/- 0.05
ANGULAR +/- 0.50
ANGULAR +/- 0.25

DRAWN
APP'D
GA

NAME
DC

SIGNATURE
DATE
02/08/12

MATERIAL:

AISI 4140

WEIGHT:

DESCRIPTION: AXLE THRUST BUTTON

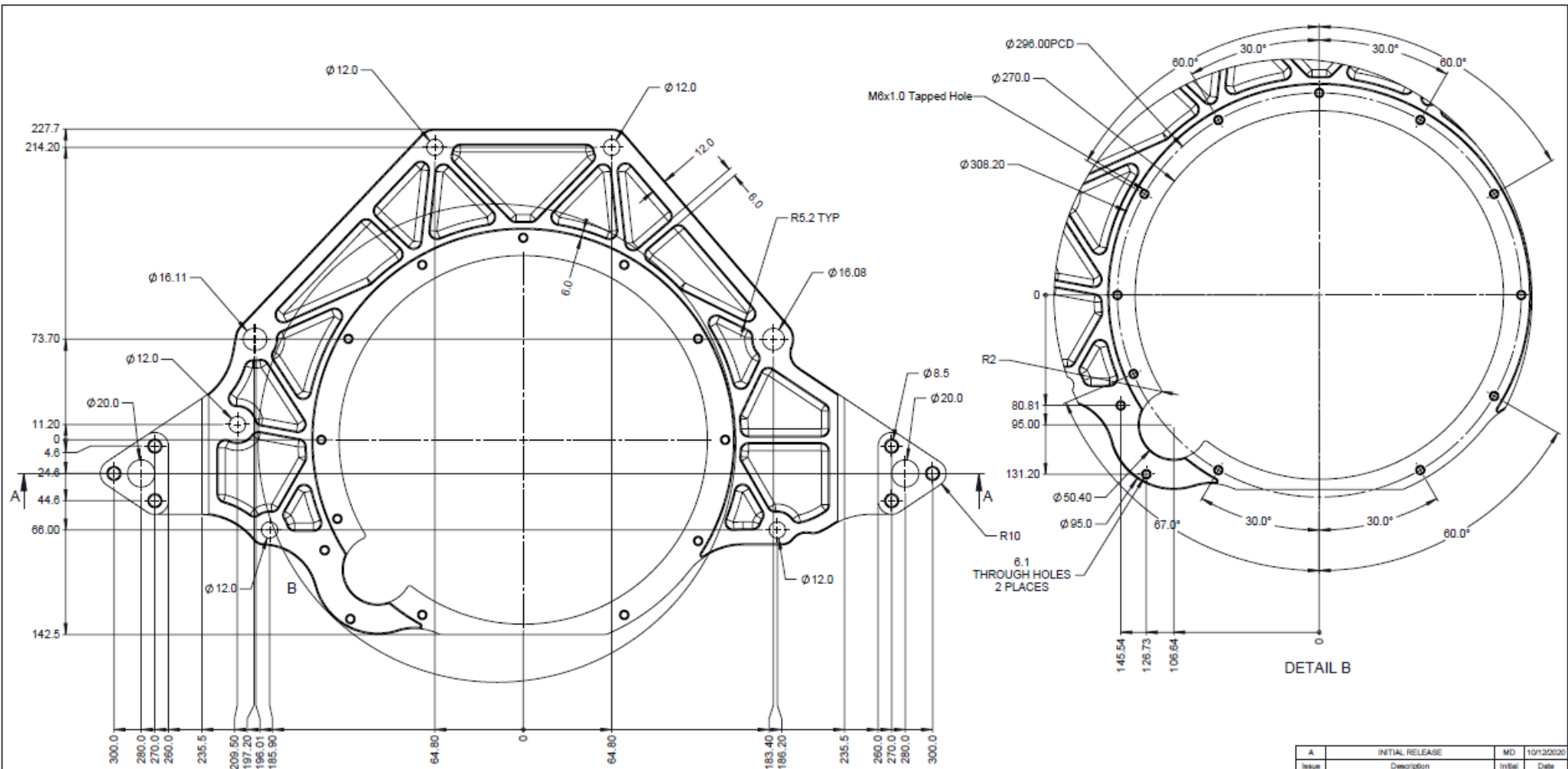
A4

PART NO. V8SC-4-067

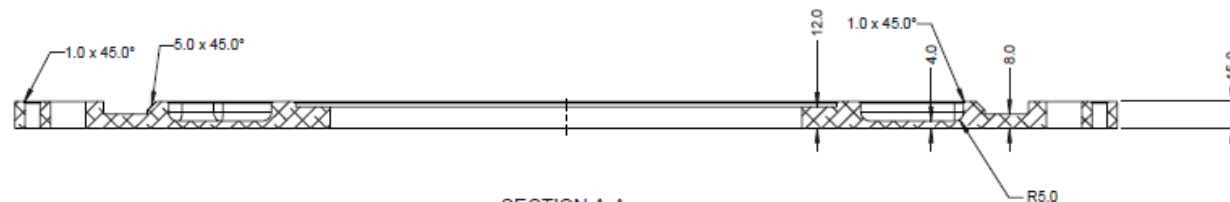
DWG NO.


SCALE:2:1

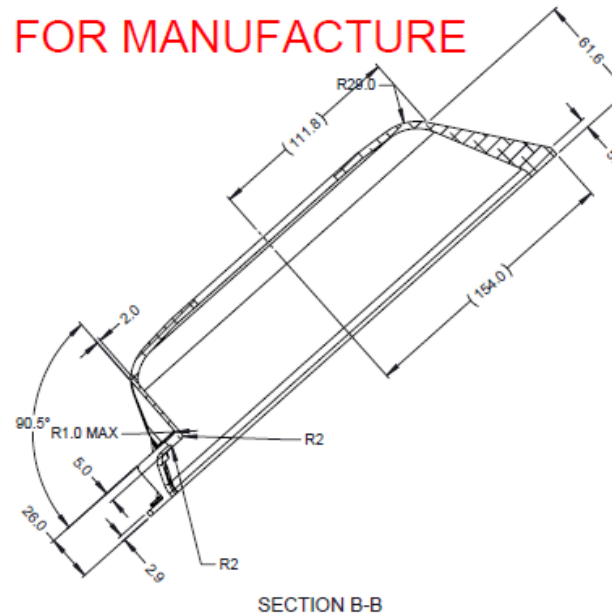
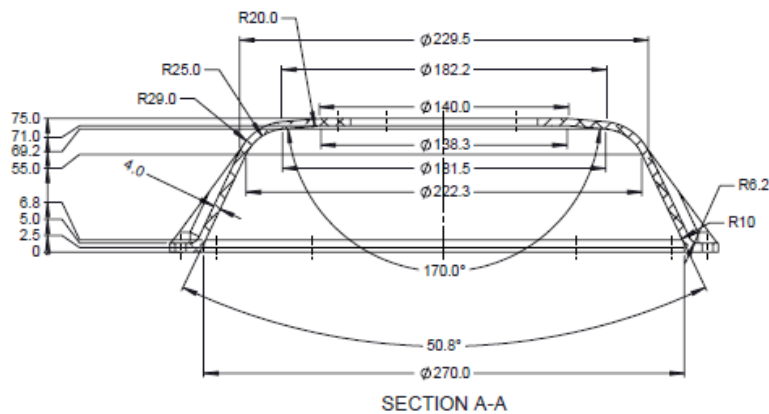
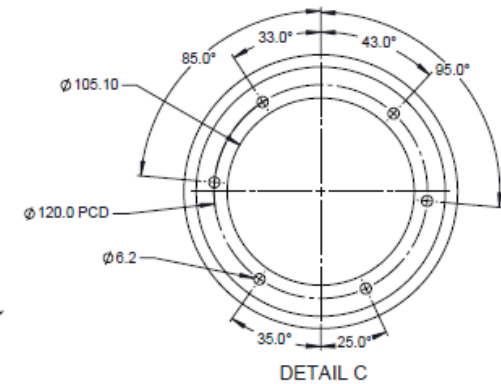
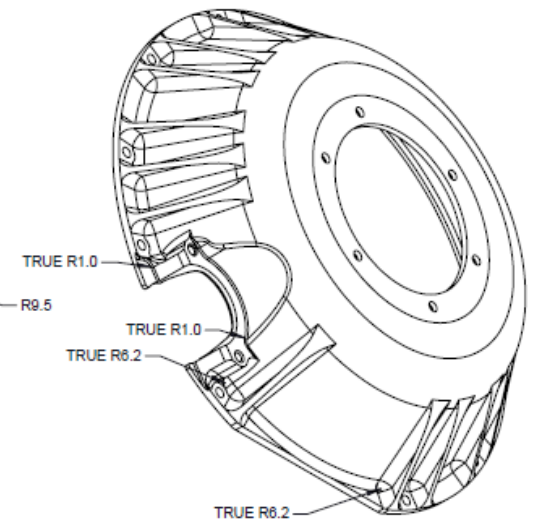
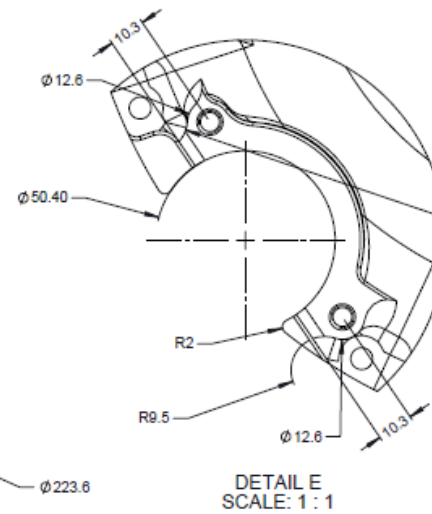
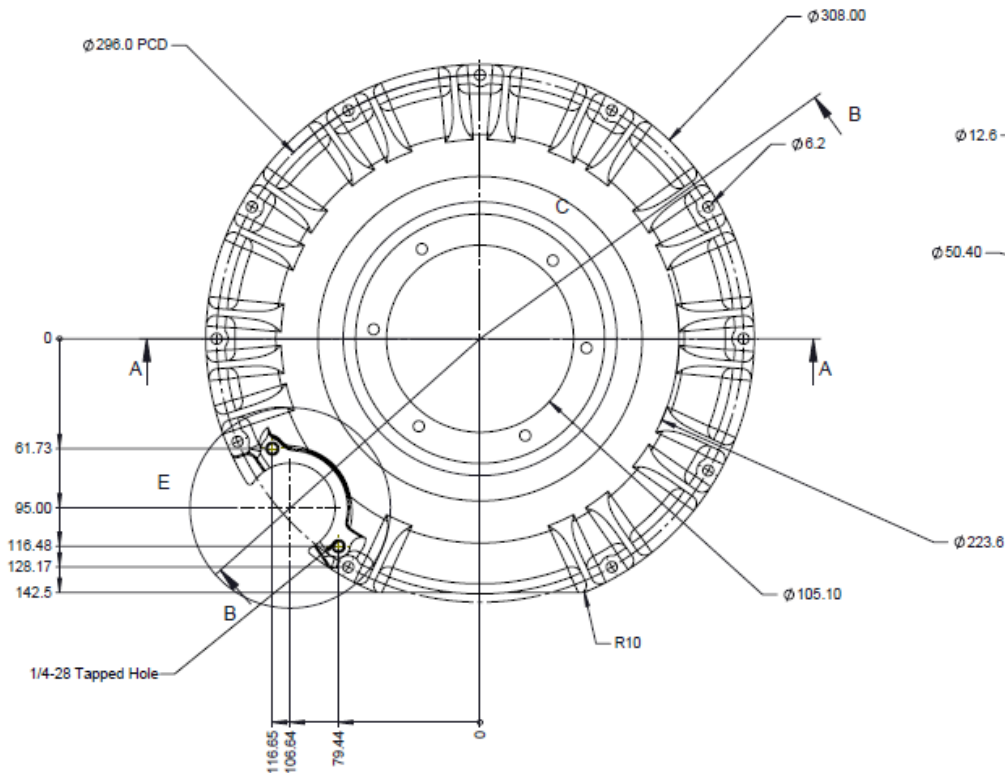
SHEET 1 OF 1




FOR INDICATIVE QUOTING ONLY - NOT FOR MANUFACTURE

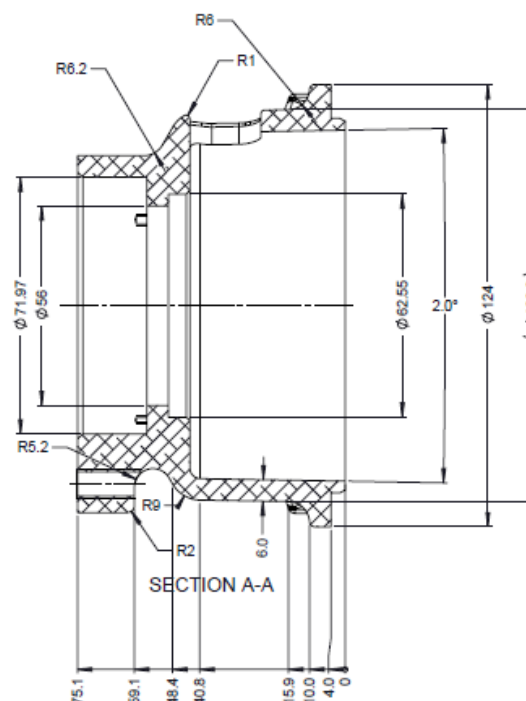
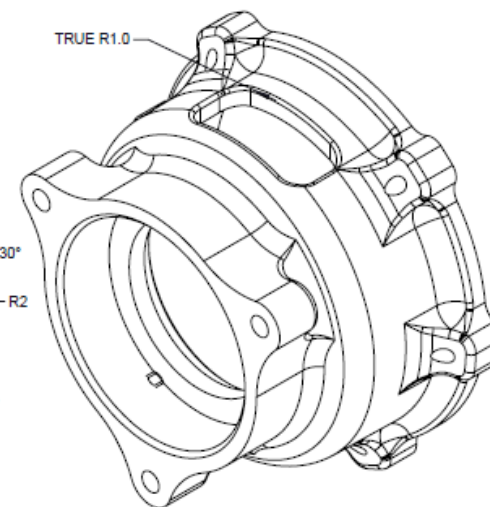




INITIAL RELEASE		MD	10/12/2020
Issue	Description	Initial	Date
REVISIONS			
Next Highest Assembly	AN-5000	No./Assy	1
Matl Spec	5083-H32	Mass	2011.6g
Treatmt	NONE		
Finish	NATURAL		
Designed	Mark Dutton	Date	10/12/2020
Approved	Jeromy Moore	Date	17/12/2020
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Title COYOTE BELLHOUSING - MOTOR PLATE - GEN 3			
THIRD ANGLE PROJECTION	BY	A2	Scale 1:2
Drawing Number	Issue	Sheet	Of
AN-5038	P01	1	1



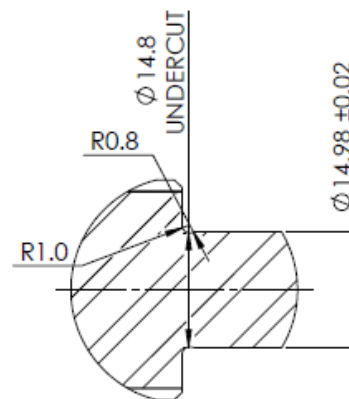
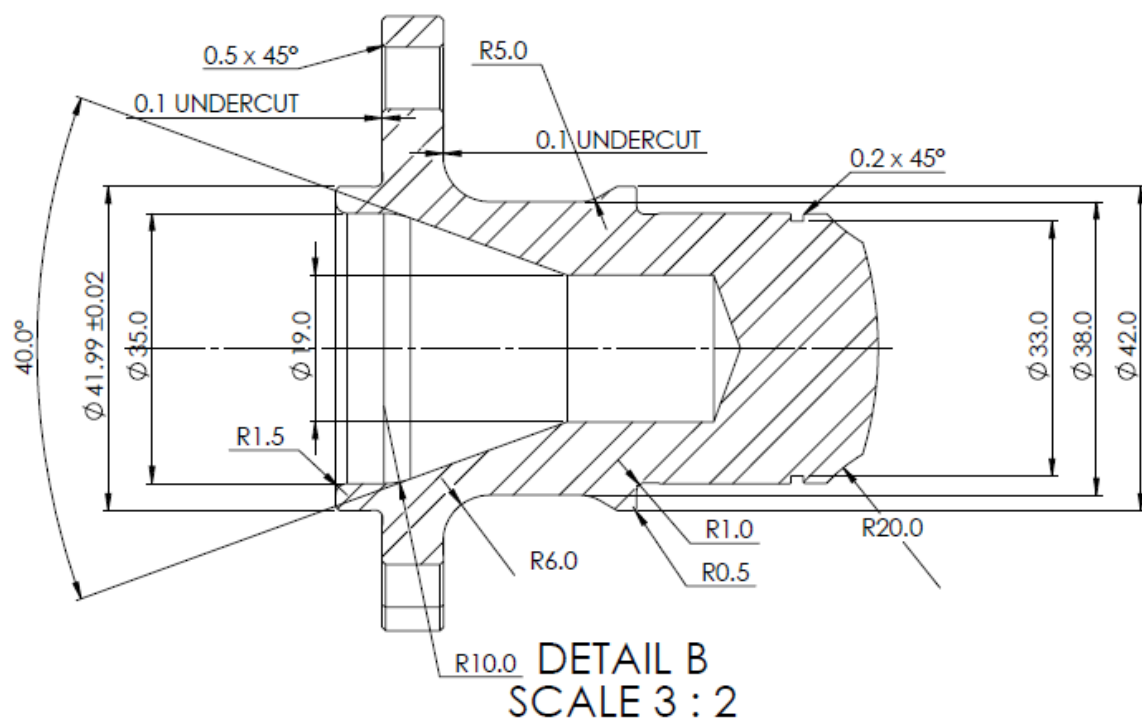
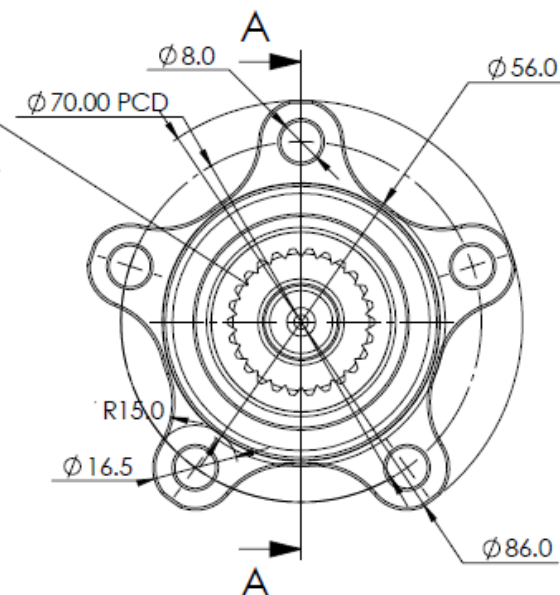
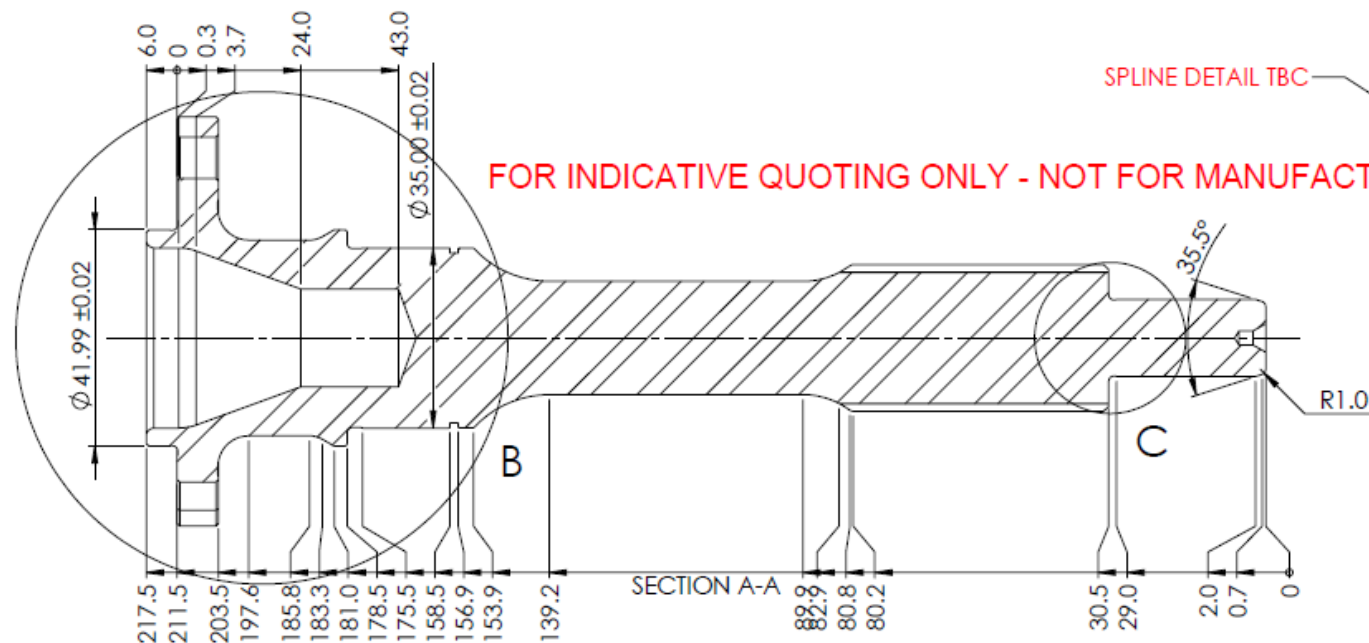
FOR INDICATIVE QUOTING ONLY - NOT FOR MANUFACTURE

INITIAL RELEASE		MD	10/12/2020
Issue	Description	Initial	Date
REVISIONS			
Next Highest Assembly	AN-5000	No./Assy	1
Mat'l Spec	5083-H32	Mass	1192.5g
Treatmt	NONE		
Finish	NATURAL		
Designed	Mark Dutton	Date	10/12/2020
Approved	Jerome Moore	Date	17/12/2020
GEN. LIMITS UNLESS STATED NO PLACES DEC. ± 0.25 mm 1 PLACE DEC. ± 0.10 mm 2 PLACES DEC. ± 0.05 mm ANGLE 1 PLACE DEC. $\pm 0.50^\circ$ ANGLE 2 PLACES DEC. $\pm 0.25^\circ$ SURFACE FINISH 1.6 UNLESS STATED ALL UNSPECIFIED DIMENSIONS ARE IN mm			
			
Title COYOTE BELLHOUSING - CLUTCH COVER - GEN 3			
THIRD ANGLE PROJECTION	BY: A2	Scale	1:2
Drawing Number	Issue	Sheet	Of
AN-5038	P01	1	1



A	INITIAL RELEASE	MD	10/12/2020
Issue	Description	Initial	Date
REVISONS			
Next highest Assembly	AN-5000	No./Assy	1
Mat'l Spec	7050-T7451	Mass	577.3g
Treatmt	NONE		
Finish	NATURAL		
Designed	Mark Dutton	Date	10/12/2020
Approved	Jeromy Moore	Date	17/12/2020
 <p>GEN. LIMITS UNLESS STATED</p> <p>NO PLACES DEC. ± 0.25mm 1 PLACE DEC. ± 0.10mm 2 PLACES DEC. ± 0.25mm ANGLE 1 PLACE DEC. ± 0.50° ANGLE 2 PLACES DEC. ± 0.20°</p> <p>SURFACE FINISH 1/8" UNLESS STATED</p> <p>ALL UNSPECIFIED DIMENSIONS ARE IN mm</p>			
Title COYOTE BELLHOUSING - RELEASER MOUNT - GEN 3			
THIRD ANGLE PROJECTION		SCALE	A:2
Scale	1:1		
Drawing Number	AN-5038	Issue	P01
Sheet	1	Of	1

FOR INDICATIVE QUOTING ONLY - NOT FOR MANUFACTURE



A	INITIAL RELEASE	MD	18/12/2020
Issue	Description	Initial	Date
REVISIONS			
Next Highest Assembly	AN-5000	No./ASM	1
Mat'l Spec	300M	Mass	1013.89g
Treatm't			
Finish			
Designed	Mark Dutton	Date	12/05/2020
Approved	Jeremy Moore	Date	18/12/2020



GEN. LIMITS UNLESS STATED
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 1 PLACE DEC. $\pm 0.10\text{mm}$
 2 PLACES DEC. $\pm 0.05\text{mm}$
 ANGLE NO PLACES DEC. $\pm 0.50^\circ$
 ANGLE 1 PLACE DEC. $\pm 0.25^\circ$
 ANGLE 2 PLACES DEC. $\pm 0.10^\circ$
 SURFACE FINISH UNLESS STATED 1.6
 ALL UNSPECIFIED DIMENSIONS ARE IN mm

Title **BELLHOUSING - INPUT SHAFT - GEN 3**

THIRD ANGLE PROJECTION	Issue	Scale	1:1
Drawing Number	Issue	Sheet	Of
AN-5041	P01	1	1

Associated Drawing: