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		A	DEFINES THE SCOPE, DRAWINGS, BILL OF MATERIALS, MANUFACTURING REQUIREMENTS, AND INSPECTION EXPECTATIONS FOR QUOTATION OF THE BERT26 SUSPENSION SUBSYSTEM	6/3/2026	6/3/2026
BERT26 COST REPORTING DOCUMENTS					
		ALL SHEETS ARE THE SAME REVISION STATUS			
		 CAL POLY POMONA FORMULA SAE ELECTRIC 3801 W. TEMPLE AVE, POMONA, CA 91768 cppformulaelectric@cpp.edu			
APPLICATION					
CAR NUMBER: 24		DOCUMENT NAME: REQUEST FOR QUOTE (RFQ) BERT26 COMPLETE SUSPENSION SUBSYSTEM			
PROJECT/PROGRAM: CAL POLY POMONA FORMULA SAE ELECTRIC ("CPP FORMULA ELECTRIC")					
PREPARED BY: BRENDAN BIROZY, BUSINESS & MARKETING LEAD					
CHECKED BY: JOSE HIGAREDA, VEHICLE DYNAMICS LEAD					
APPROVED BY: CHRISTOPHER LINHARDT, PRESIDENT					
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FORM--COMPDOCU-BERT26-SUSP-RFQ-001		SCALE: AS SHOWN	WEIGHT: N/A	SHEET: 1	

1.0 SUMMARY OF REQUEST

TO: Suspension Subsystem Manufacturing and Supply Partner

SUBJECT: Request for Quote (RFQ) for BERT26 Complete Suspension Subsystem – Formula SAE Electric (“CPP Formula Electric”) Car #24

June 2, 2026

CPP Formula Electric requests a quote for procurement, manufacturing, quality inspection, off-car assembly, packaging, and delivery of the BERT26 Suspension subsystem as defined in this RFQ package. The subsystem scope is based on the submitted BERT26 2026 Cost Report submitted through the fsaeonline.org Online Cost Report System portal. The subsystem scope includes: front and rear control arms, pullrods, rockers, uprights, dampers, springs, suspension bearings/rod ends, raw materials, and required suspension fasteners. The RFQ should be quoted as one complete vehicle set unless otherwise stated.

Cost-report baseline for quote consistency:

Suspension Subsystem total = \$2,107.14*, consisting of:

\$1,724.60	.	.	.	.	.	.	MATERIALS
\$380.44	.	.	.	.	.	.	PROCESSES
\$2.10	.	.	.	.	.	.	FASTENERS
\$0.00	.	.	.	.	.	.	TOOLING

*Note that this baseline is the traceability baseline used to confirm consistency between the Cost Report, the RFQ BOM, and the event-day vehicle. This baseline is not a supplier price target.

Requested quote format:

- Itemized pricing by part/assembly, with separate material, purchased part, process/labor, inspection, assembly, tooling/NRE, packaging, shipping, and tax-duty lines.
- Lead time by item and total lead time to ship the complete suspension subsystem.
- Identification of supplier deviations, substitutions, minimum/maximum order quantities, lead-time related risks, drawing questions, and manufacturability concerns.
- Confirmation that the supplier can build to the attached drawings and quality requirements without additional engineering assumptions.

Scope Boundary:

This RFQ covers the suspension subsystem assembly and component manufacture only. It does not request installation of system onto the vehicle. Chassis, steering, wheels, hubs, drivetrain, brake, and tire systems are included only as references when needed by drawings or inspection fixtures.

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1.1.4 Nonconforming Material/Rework: Supplier shall notify CPP Formula Electric before shipping any nonconforming parts. Rework, repair, or use-as-is acceptance requires written approval from CPP Formula Electric. Nonconforming parts may be rejected, returned, or reworked at supplier expense unless otherwise agreed.

2.0 DOCUMENT INDEX (DI)

Doc No.	Title	Location / Attachment	Source Type	Notes / Action
RFQ-00	Cover Letter and Package Summary	This document	New RFQ content	Supplier, dates, and commercial terms completed for Cost Scenario RFQ issue.
RFQ-01	Document Index	This document, Section 2	New RFQ content	Keep document numbers/revisions synchronized.
BOM-01	Suspension & Shocks Quote BOM	This document, Section 4	Cost Report traceability	Parent rows are traceability; includes Hyperco 18FS400 springs and operational sensors and excludes chassis-side mounts.
BOM-02	Raw Material, Purchased Part, and Process Detail	This document, Section 5	Cost Report primary; VD BOM controls springs/sensors	Final supplier PNs requested in quote response; Hyperco springs and additl. sensors are included as team-confirmed vehicle content with Cost Report reconciliation noted.
MD-00	Manufacturing Data Matrix	This document, Section 7	RFQ outline + drawings	Maps quote parts to uploaded drawings and controlled addenda.
DRW-SUS-000	Complete Suspension Assembly Drawing	Controlled addendum before manufacture: BERT26_Suspension_Assembly_Drawing.pdf	Controlled release addendum	Must define assembly relationships, corners, chassis interfaces, datum origin, and coordinate system.
DRW-FCA-100	Front Control Arms Assembly Drawing	Controlled addendum before manufacture: BERT26_Front_Control_Arms_Assy.pdf	Controlled release addendum	Assembly drawing with FL/FR orientation, weld fixture datum, pickup points.
DRW-FUCA-101	Front Upper Control Arm Tube Elements	Attachment: FLUF_FRUF_Elements.pdf; Attachment: FLUA_FRUA_Element.pdf	Uploaded drawings	4130 tube, OD 5/8 in, ID 0.509 in, +/-0.01 in tolerance.
DRW-FUCA-102	Front Upper Control Arm Bearing/Housing Detail	Attachment: 2B_F_UpperHousing_Drawing.pdf; Attachment: CA_TabsGeneral_dwg.pdf	Uploaded drawings	Steel housing/tab details; add weldment drawing and bearing staking spec.
DRW-FLCA-103	Front Lower Control Arm Tube Elements	Attachment: FLLF_FRLF_Element.pdf; Attachment: FLLA_FRLA_Element.pdf	Uploaded drawings	4130 tube, OD 5/8 in, ID 0.509 in, +/-0.01 in tolerance.
DRW-FLCA-104	Front Lower Control Arm Bearing/Housing Detail	Attachment: 1B_F_LowerHousing_Drawing.pdf; Attachment: CA_TabsGeneral_dwg.pdf	Uploaded drawings	Steel housing/tab details; add weldment drawing and bearing staking spec.
DRW-FPR-110	Front Pullrod and Tab Drawing	Attachment: Front_Pullrod_CA_Tab_dwg.pdf; controlled addendum before manufacture: BERT26_Front_Pullrod_Drawing.pdf	Uploaded tab drawing + controlled addendum	Need finished length, right-hand-thread rod-end details, 5/16-24 jam nuts, custom misalignment spacers, final vertical/clocked orientation, and thread engagement.
DRW-FRK-120	Front Rocker Drawing	Attachment: Front_Rockers_dwg.pdf	Uploaded drawing	AI 6061-T6 rocker; quote bearing/spacer stackup using

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3.0 BILL OF MATERIALS (BOM)

Item	Team / RFQ Part No.	Part or Assembly	Type	Qty	Unit Cost / Quote Basis	Total / Quote Basis	Cost / Source Basis	Attachments
1.0	CPPFE-BERT26-SUS-FCA-ASSY	Front Control Arms Assembly	Assembly traceability	2	73.38	146.76	Parent assembly: one upper and one lower front control arm per side.	See DI: DRW-FCA-100; child docs DRW-FUCA-101/102 and DRW-FLCA-103/104.
1.1	CPPFE-BERT26-SUS-FUCA	Front Upper Control Arm	Manufactured subassembly	2	38.39	76.78	Steel tube/plate, rod ends, spherical bearing; cut, weld, machine, press/stake bearing.	See DI: DRW-FUCA-101/102; controlled weldment addendum before manufacture.
1.2	CPPFE-BERT26-SUS-FLCA	Front Lower Control Arm	Manufactured subassembly	2	34.99	69.98	Steel tube/plate, rod ends, spherical bearing; cut, weld, machine, press/stake bearing.	See DI: DRW-FLCA-103/104; controlled weldment addendum before manufacture.
2.0	CPPFE-BERT26-SUS-FPR	Front Pullrods	Manufactured subassembly	2	21.19	42.38	Steel tube with two 10.32 mm rod ends; assemble and cut tube to size.	See DI: DRW-FPR-110; controlled pullrod drawing before manufacture.
3.0	CPPFE-BERT26-SUS-FRK	Front Rocker	Manufactured part/subassembly	2	4.88	9.76	Aluminum plates, laser cut to shape.	See DI: DRW-FRK-120; controlled rocker stackup addendum.
4.0	CPPFE-BERT26-SUS-FUP	Front Upright	Machined part	2	62.77	125.54	Aluminum machined upright; Cost Report includes one Grade 10.9 bolt line.	See DI: DRW-FUP-130; attached F_FrontUprightDrawing.pdf and assigned DWG NO CPPFE-BERT26-SUS-FUP-130.
5.0	CPPFE-BERT26-SUS-RCA-ASSY	Rear Control Arms Assembly	Assembly traceability	2	73.74	147.48	Parent assembly: one upper and one lower rear control arm per side.	See DI: DRW-RCA-200; child docs DRW-RUCA-201/202 and DRW-RLCA-203/204.
5.1	CPPFE-BERT26-SUS-RUCA	Rear Upper Control Arm	Manufactured subassembly	2	36.85	73.70	Steel front/back tubes and plate, rod ends, spherical bearing; cut, weld, machine, press/stake bearing.	See DI: DRW-RUCA-201/202; controlled weldment addendum before manufacture.
5.2	CPPFE-BERT26-SUS-RLCA	Rear Lower Control Arm	Manufactured subassembly	2	36.89	73.78	Steel front/back tubes and plate, rod ends, spherical bearing; cut, weld, machine, press/stake bearing.	See DI: DRW-RLCA-203/204; controlled weldment addendum before manufacture.
6.0	CPPFE-BERT26-SUS-RPR	Rear Pullrods	Manufactured subassembly	2	21.14	42.28	Steel tube with two 10.32 mm rod ends; interference assembly and cut tube to size.	See DI: DRW-RPR-210; controlled pullrod drawing before manufacture.

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Item	Team / RFQ Part No.	Part or Assembly	Type	Qty	Unit Cost / Quote Basis	Total / Quote Basis	Cost / Source Basis	Attachments
7.0	CPPFE-BERT26-SUS-RRK	Rear Rocker	Manufactured part/subassembly	2	3.44	6.88	Aluminum plates, laser cut, attach rockers to rod ends.	See DI: DRW-RRK-220; controlled rocker stackup addendum.
8.0	CPPFE-BERT26-SUS-RUP	Rear Upright	Machined part	2	115.27	230.54	Aluminum machined upright; attach to control arms.	See DI: DRW-RUP-230; attached FRearUprightDrawingV2.PDF and assigned DWG NO CPPFE-BERT26-SUS-RUP-230.
9.0	CPPFE-BERT26-SUS-DMP	Shocks / Dampers	Purchased part + setup	4	313.88	1255.52	Ohlins TTX 25 damper; install spring and set preload; corner setup/alignment.	See DI: DAT-DMP-300; exact PN/stroke/valving required in supplier quote.
10.0	CPPFE-BERT26-SUS-SPR	Hyperco 18FS400 Springs	Purchased part	4	54.00	216.00	VD BOM / team-confirmed actual vehicle spring: Hyperco 18FS400, 1.45 in ID, 4.4 in length, 400 lb/in.	See DI: DAT-SPR-301; supplier to include current Hyperco datasheet/certification and delivery lead time.
11.0	CPPFE-BERT26-SUS-SENS	Operational Suspension Sensor Set	Purchased sensor kit	1 kit	414.39 VD subtotal	501.09 order total	Team-confirmed VD BOM sensor set: 4 linear potentiometers, 2 wheel speed sensors, 1 rotary angle sensor, 1 tire temperature sensor, and 2 strain gauges.	See DI: DAT-SENS-302 and Section 5.2. Supplier shall quote datasheets, calibration/acceptance data, and any pigtail/mounting assumptions.
12.0	CPPFE-BERT26-SUS-FST	Complete suspension fastener/hardware kit	Fastener kit	1 kit	2.10	2.10	Cost Report fastener baseline is \$2.10 in front upright line; VD BOM provides candidate hardware. CA joint baseline: 5/16-24 Grade 8 bolt, 1-3/4 in length, washers, two custom misalignment spacers, centerlock nut, 29 lb-ft dry torque, optional Loctite Blue, and paint mark.	Quote complete hardware kit by joint using Sections 5.2 and 8.4; include preliminary control-arm joint stackup, bag/tag by joint, and exclude chassis-side mount hardware.

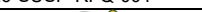
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5.1 Cost Report detail expanded for supplier quoting:

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5.2.1 The VD BOM entries in this section are supplemental vehicle-installed suspension components and sourcing details. The BERT26 Cost Report remains the controlling source for official Cost Event traceability, baseline costs, quantities, and subsystem totals. VD BOM items are included only where they identify parts installed **on the competition vehicle** that are missing, generalized, or under-described in the Cost Report. These entries clarify RFQ scope and supplier quoting requirements but shall not override the Cost Report unless the Cost Report is formally revised.

VD BOM item	Supplier / PN	VD BOM order data	Use
Control Arm Square Tabs	OSH Cut, PN N/A	\$189.55, qty 1, purchased/received	Supports CA_TabsGeneral_dwg.pdf.
Rockers and pullrod tabs	SendCutSend, PN N/A	\$475.49 batch purchase included suspension laser-cut parts; supplier shall quote only rockers and pullrod tabs covered by RFQ drawings.	Use as prior purchase evidence for laser-cut rockers and pullrod tabs only. Do not infer any additional mount scope from this purchase order.
Coilover springs, 1.45 in ID, 4.4 in length, 400 lb/in	Hyperco 18FS400	\$54 each, qty 4, not yet received in VD BOM	Included as the updated BERT26 spring: Hyperco 18FS400, 1.45 in ID, 4.4 in length, 400 lb/in, qty 4.
M8 x 1.25 x 70 mm Class 8.8 bolts	McMaster-Carr 91280A284	\$11.20 pack, received	Use only where final rocker/damper/upright stackups call for M8 x 70 mm Class 8.8.
M8 x 1.25 x 95 mm Class 8.8 bolts	McMaster-Carr 91280A174	\$9.65 pack, received	Use only where final stackups call for M8 x 95 mm Class 8.8.
5/16-24 x 1-3/4 in Grade 8 bolts	McMaster-Carr 91286A190	\$15.00 pack, received	CA-joint quote baseline. Use with Grade 8 washer above and below the joint, two custom misalignment spacers, Grade 8 centerlock distorted-thread nut, 29 lb-ft dry torque, Loctite Blue removable threadlocker as necessary, and paint-marker torque stripe
Tube-end weld nut for 5/8 in tube OD, 0.058 in wall, 5/16-24	McMaster-Carr 94640A130	\$7.02 each, qty 30, received	Rod-end insert. Use right-hand 5/16-24 thread unless a released drawing explicitly calls out left-hand thread. Adjustable links require matching 5/16-24 jam nuts and minimum thread engagement of at least one nominal thread diameter unless otherwise specified.
Needle-roller thrust bearing, 8 mm shaft, 21 mm OD	McMaster-Carr 5909K3	\$5.31 each, qty 10, received	Rocker pivot hardware.
1 mm washer for 8 mm thrust bearing	McMaster-Carr 5909K295	\$1.58 each, qty 20, received	Rocker pivot stackup.
Aluminum unthreaded spacer, 5/8 in OD x 1-1/4 in long for 1/4 in	McMaster-Carr 92511A099	\$4.50 each, qty 4, received	Hardware candidate; add exact joint stackup.
Standard spherical bearing staking tool	RaceParts ABT5V-ST	\$204.53, qty 1, received	Use RaceParts ABT5V-ST or supplier equivalent. Supplier shall use a matching staking punch and flat support anvil/back-up plate that supports the housing/outer race and does not contact or load the ball/inner race; record tool/anvil method in inspection record.
Linear potentiometer	Jiangxi SOP KPMR100	\$19.00 each, qty 4, received	Included in operational suspension sensor set; quote datasheet, mounting/target assumptions, and acceptance check.
Wheel speed sensor	ZF Electronics GS100502	\$29.94 each, qty 2, subtotal \$59.88, order total \$66.87, received	Included in operational suspension sensor set; quote datasheet, mounting/target assumptions, and acceptance check.
Rotary angle sensor	CTS Electrocomponents CT3057-ND / 450T328F103A1C1	\$6.53 each, qty 1, subtotal \$6.53, order total \$13.52, received	Included in operational suspension sensor set; quote datasheet, mounting/target assumptions, and acceptance check.

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6.0 Uploaded Drawing Register

Filename	Drawing title	Existing / assigned DWG NO / Rev	Assigned RFQ DWG NO	Date	Material	Units / tolerance	Placement notes
FLUF_FRUF_Elements.pdf	FLU & FRU FORE ELEMENT	Not shown - assigned in Rev E	CPPFE-BERT26-SUS-FUCA-TUBE-FWD	2/23/2026	4130 Tube, OD 5/8, ID 0.509	Inches; +/-0.01	Length 9.676 in; hole 0.281 +/-0.005. Place under Front Upper CA.
FLUA_FRUA Element.pdf	FLU & FRU AFT ELEMENT	Not shown - assigned in Rev E	CPPFE-BERT26-SUS-FUCA-TUBE-AFT	2/23/2026	4130 Tube, OD 5/8, ID 0.509	Inches; +/-0.01	Length 9.892 in; hole 0.281 +/-0.005. Place under Front Upper CA.
FLLF_FRLF_Element.pdf	FLL & FRL FORE ELEMENT	Not shown - assigned in Rev E	CPPFE-BERT26-SUS-FLCA-TUBE-FWD	2/23/2026	4130 Tube, OD 5/8, ID 0.509	Inches; +/-0.01	Length 12.900 in; hole 0.281 +/-0.005. Place under Front Lower CA.
FLLA_FRLA_Element.pdf	FLL & FRL AFT ELEMENT	Not shown - assigned in Rev E	CPPFE-BERT26-SUS-FLCA-TUBE-AFT	2/23/2026	4130 Tube, OD 5/8, ID 0.509	Inches; +/-0.01	Length 13.406 in; hole 0.281 +/-0.005. Place under Front Lower CA.
RLUF_RRUF_Element.pdf	RLU & RRU FORE ELEMENT	Not shown - assigned in Rev E	CPPFE-BERT26-SUS-RUCA-TUBE-FWD	2/23/2026	4130 Tube, OD 5/8, ID 0.509	Inches; +/-0.01	Length 10.521 in; hole 0.281 +/-0.005. Place under Rear Upper CA.
RLUA_RRUA_Element.pdf	RLU & RRU AFT ELEMENT	Not shown - assigned in Rev E	CPPFE-BERT26-SUS-RUCA-TUBE-AFT	2/23/2026	4130 Tube, OD 5/8, ID 0.509	Inches; +/-0.01	Length 7.219 in; hole 0.281 +/-0.005. Place under Rear Upper CA.
RLLF_RRLF_Element.pdf	RLL & RRL FORE ELEMENT	Not shown - assigned in Rev E	CPPFE-BERT26-SUS-RLCA-TUBE-FWD	2/23/2026	4130 Tube, OD 5/8, ID 0.509	Inches; +/-0.01	Length 11.432 in; hole 0.281 +/-0.005. Place under Rear Lower CA.
RLLA_RRLA_Element.pdf	RLL & RRL AFT ELEMENT	Not shown - assigned in Rev E	CPPFE-BERT26-SUS-RLCA-TUBE-AFT	2/23/2026	4130 Tube, OD 5/8, ID 0.509	Inches; +/-0.01	Length 8.007 in; hole 0.281 +/-0.005. Place under Rear Lower CA.
CA_TabsGeneral_dwg.pdf	Control Arm Mounting Tab (General)	Not shown - assigned in Rev E	CPPFE-BERT26-SUS-CA-TAB-GEN	3/1/26	Steel, A513	Inches; +/-0.005	General CA mounting tab; add thickness/quantity and hole fit notes if not clear.
2B_F_UpperHousing_Drawing.pdf	F_UpperHousing	Existing DWG NO 2, Rev B	CPPFE-BERT26-SUS-FUCA-HSG	3/2/26	Steel; finish AS IS	Inches; 2-place 0.03, 3-place 0.01, angular 1	Shows 0.7500/0.7505 final bore after welding, chamfer, fixture holes. Use Section 8.4 bearing fit/stake requirements; supplier shall confirm final fit and staking method.
1B_F_LowerHousing_Drawing.pdf	F_LowerHousing	Existing DWG NO 1, Rev B	CPPFE-BERT26-SUS-FLCA-HSG	3/30/26	Steel; finish AS IS	Inches; 2-place 0.03, 3-place 0.01, angular 1, fractional 1/32	Shows final bore after welding and fixture holes. Use Section 8.4 bearing fit/stake requirements; supplier shall confirm final fit and staking method.
4B_R_UpperHousing_Drawing.pdf	R_UpperHousing	Existing DWG NO 4, Rev B	CPPFE-BERT26-SUS-RUCA-HSG	3/2/26	Steel; finish AS IS	Inches; 2-place 0.03, 3-place 0.01, angular 1	Shows final bore after welding and fixture holes. Use Section 8.4 bearing fit/stake requirements; supplier shall confirm final fit and staking method.
3B_R_LowerHousing_Drawing.pdf	R_LowerHousing	Existing DWG NO 3, Rev B	CPPFE-BERT26-SUS-RLCA-HSG	3/2/26	Steel; finish AS IS	Inches; 2-place 0.03, 3-place 0.01, angular 1	Shows final bore after welding and fixture holes. Use Section 8.4 bearing fit/stake requirements;

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7.0 MANUFACTURING DATA MATRIX

Part group	Available uploaded drawings	Manufacturing data status	Inspection data to include
Front upper control arms	FLUF_FRUF_Elements.pdf; FLUA_FRUA Element.pdf; 2B_F_UpperHousing_Drawing.pdf; CA_TabsGeneral_dwg.pdf	Tube material, lengths, housing geometry, and tab drawing available. Weldment drawing, tube cope details, weld symbols, rod-end inserts/weld nuts, and bearing stake procedure are controlled addenda before manufacture.	Critical pickup-point locations; bore after welding; weld visual inspection; bearing press/stake acceptance; left/right symmetry.
Front lower control arms	FLLF_FRLF_Element.pdf; FLLA_FRLA_Element.pdf; 1B_F_LowerHousing_Drawing.pdf; CA_TabsGeneral_dwg.pdf	Tube material, lengths, housing geometry, and tab drawing available. Weldment drawing and fixture datum scheme are controlled addenda before manufacture.	Same as upper; add fixture verification after welding.
Rear upper control arms	RLUF_RRUF_Element.pdf; RLUA_RRUA_Element.pdf; 4B_R_UpperHousing_Drawing.pdf; CA_TabsGeneral_dwg.pdf	Tube material, lengths, housing geometry, and tab drawing available. Weldment drawing and fixture datum scheme are controlled addenda before manufacture.	Critical pickup points, bore position, symmetry, bearing installation.
Rear lower control arms	RLLF_RRLF_Element.pdf; RLLA_RRLA_Element.pdf; 3B_R_LowerHousing_Drawing.pdf; CA_TabsGeneral_dwg.pdf	Tube material, lengths, housing geometry, and tab drawing available. Weldment drawing and fixture datum scheme are controlled addenda before manufacture.	Critical pickup points, bore position, symmetry, bearing installation.
Front pullrods	Front_Pullrod_CA_Tab_dwg.pdf	Cost Report gives tube/rod-end data and tab drawing is available. Complete pullrod finished length, right-hand thread detail, 5/16-24 jam nuts, custom misalignment spacers, and final rod-end vertical/clocked orientation are controlled addenda before manufacture.	Center-to-center length tolerance, thread engagement, rod-end orientation, jam-nut torque, spacer fit.
Rear pullrods	Rear_Pullrod_CA_Tab_dwg.pdf	Cost Report gives tube/rod-end data and tab drawing is available. Complete pullrod finished length, right-hand thread detail, 5/16-24 jam nuts, custom misalignment spacers, and final rod-end vertical/clocked orientation are controlled addenda before manufacture.	Center-to-center length tolerance, thread engagement, rod-end orientation, jam-nut torque, spacer fit.
Front rockers	Front_Rockers_dwg.pdf	Rocker profile drawing available; add DXF, pivot bearing, thrust bearing, sleeve bearing, spacer stackup.	Hole diameter/position tolerances; flatness; deburr; bearing/sleeve fit; free rotation.
Rear rockers	Rear_Rocker_dwg.pdf	Rocker profile drawing available; add DXF, pivot bearing, thrust bearing, sleeve bearing, spacer stackup.	Hole diameter/position tolerances; flatness; deburr; bearing/sleeve fit; free rotation.
Front upright	F_FrontUprightDrawing.pdf	Rev E upright drawing available. Supplier can quote/build using released drawing/model geometry and shall confirm datum scheme, bearing bores, hub/brake interfaces, and threads before machining.	CMM report; bearing bores; hub/brake interfaces; control-arm tabs; threads; surface finish.

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- Fastener/hardware kit baseline: include the Cost Report front-upright bolt baseline (Grade 10.9 / SAE 8, 12 mm x 15 mm, qty 4 per front upright), the VD BOM hardware candidates, and the preliminary lead-supplied CA joint stackup shown below. Include 5/16-24 RH jam nuts on adjustable rod ends and custom misalignment spacers at applicable clevis/bolt joints. Supplier shall quote final bolt length, washer/spacer stack, nut type, torque, threadlocker/locking feature, and torque stripe by joint in the hardware kit checklist.

Preliminary joint fastener stackup - supplier shall quote these as the current baseline and identify any conflicts with released CAD/drawings.

Joint / interface	Baseline hardware	Washers / spacers / bearings	Nut / locking	Torque / marking	Status	Supplier action
CA joint / 5/16 through-bolt baseline	5/16-24 Grade 8 bolt, 1-3/4 in length	Grade 8 washers top and bottom; 2 custom misalignment spacers	Grade 8 centerlock distorted-thread nut; Loctite Blue removable threadlocker as necessary	29 lb-ft dry friction torque; paint marker torque stripe after tightening	Lead-supplied baseline; spacer drawing pending	Quote hardware, ask for custom misalignment-spacer drawing, and flag any joint where bolt length or orientation differs.
Adjustable rod-end to tube-end insert / weld nut	Right-hand 5/16-24 rod-end thread into tube-end weld nut unless drawing says otherwise	Custom misalignment spacers at clevis/bolt joint; maintain minimum thread engagement	5/16-24 jam nut at each adjustable rod end	Torque/mark per final hardware schedule; paint mark after final adjustment	Baseline requirement; final lengths pending pullrod/arm drawings	Quote jam nuts and verify thread engagement/adjustment range for each CA and pullrod.
Rocker pivot / bearing stack	M8 x 1.25 Class 8.8 x 70 mm or 95 mm hardware candidate from VD BOM, as final stackup requires	8 mm needle-roller thrust bearing, 1 mm thrust washers, 12 mm ID x 16 mm flanged sleeve bearing/spacers per released rocker stackup	Prevailing-torque nut or other locking feature per final drawing	Torque by final schedule; verify free rotation/no side load after tightening	Candidate hardware; final rocker stackup controlled addendum	Quote both candidate lengths unless final released rocker stackup resolves length.
Front upright bolt line	Grade 10.9 / SAE 8, 12 mm x 15 mm, qty 4 per front upright per Cost Report baseline	Washers/spacers per upright drawing and hub/brake interface	Locking method per final drawing/hardware schedule	Torque/threadlocker by final schedule; paint marker after final torque	Cost Report baseline; drawing verification required	Confirm exact joint use, length, thread engagement, and torque before machining/assembly.

8.5 Damper/spring setup requirements

- Damper/spring setup baseline: quote four Ohlins TTX 25 dampers per Cost Report with exact Ohlins PN, stroke, eye-to-eye length, eyelet hardware, valving, and dyno/setup sheet identified in the quote. Quote four Hyperco 18FS400 springs, 1.45 in ID, 4.4 in length, 400 lb/in, per the team-confirmed VD BOM selection.
- Spring-rate decision: Rev E quotes Hyperco 18FS400 400 lb/in springs as the actual BERT26 spring. If the submitted Cost Report spring row still differs, update the Cost Report or add an event-day deviation note before submission.

8.6 Operational suspension sensor requirements

- Sensor package: quote and package the full VD BOM sensor set - KPMR100 linear potentiometers qty 4, GS100502 wheel speed sensors qty 2, CTS 450T328F103A1C1 / CT3057-ND rotary angle sensor qty 1, IZZE IRTS-V3 tire temperature sensor qty 1, and DAOKI BF350-3AA strain gauges qty 2.
- Sensor deliverables: include datasheets, calibration or acceptance information, connector/pigtail assumptions, bracket/mounting assumptions, labels by intended location, and protective packaging for leads/connectors.
- Scope limit: vehicle-side installation, chassis routing, and chassis-side brackets remain excluded unless added by a later written addendum.

FORM--COMPDOCU-BERT26-SUSP-RFQ-001

		CAR # 24	PROGRAM CPPFE	DWG NO BERT26-SUSP-RFQ-001	REV A	SHEET 19
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9.0 SUPPLIER QUALITY CONTROL AND INSPECTION REQUIREMENTS

Inspection area	Minimum requirement	Record / deliverable
General supplier quality	Supplier shall review full RFQ package and submit written questions before manufacturing if requirements are unclear or conflicting. No substitutions without written approval.	Supplier question log and signed quotation assumptions.
Material traceability	Supplier shall provide material certs for 4130 steel, A513 steel, aluminum, and any substituted material.	Material certificates by lot/heat.
Control-arm weldments	Inspect tube lengths, cope quality, welds, bearing bores after welding, pickup-point geometry, left/right orientation.	First article report and final inspection sheet per arm.
Bearing staking/pressing	Verify bearing PN, bore/OD/width, press fit, top-side press direction unless drawing states otherwise, outer-race-only press contact, staking-tool/anvil condition, staking quality, bearing rotation, no brinelling/damage.	Bearing installation record, tool/anvil ID or equivalent method, press direction, and rejection criteria.
Rockers	Inspect profile dimensions, hole sizes/locations, flatness, deburr, bearing/sleeve fits, spacer stackup.	Dimensional inspection report; free-rotation check.
Uprights	Inspect datum faces, bearing bores, hub/brake/control-arm interfaces, threaded holes, surface finish.	CMM or detailed inspection report; thread and surface finish checks.
Dampers/springs	Verify exact PN, stroke/eyelet hardware, spring rate/free length/ID, installed preload.	Purchased part cert/datasheet and setup sheet.
Fasteners and hardware	Verify grade/class, length, thread, washers/spacers, 5/16-24 RH jam nuts, locking feature, CA-joint baseline stackup, torque spec by joint, threadlocker note, and paint-marker witness marks.	Hardware kit checklist by corner and joint; final torque/stackup addendum if different from Section 8.4 baseline.
Suspension sensors	Verify supplier/PN, quantity, connector/pigtail condition, resistance/continuity where applicable, calibration/range data, and label by intended installed location.	Sensor datasheets, calibration/acceptance checklist, and packed sensor kit inventory.
Nonconforming parts	Segregate parts and notify CPP Formula Electric before repair, rework, or use-as-is disposition.	NCR with proposed disposition.
Final acceptance	All items labeled by corner and subassembly; no damage, corrosion, contamination, or missing hardware.	Certificate of Conformance and packing list.
Rod-end/jam-nut installation	Verify RH thread direction, 5/16-24 jam nut, thread engagement, custom misalignment-spacer use, final orientation/clocking, no bind through travel, and torque-seal application.	Rod-end installation checklist by link/corner.
CA joint stackup	Verify preliminary 5/16-24 Grade 8 x 1-3/4 in bolt, Grade 8 washers top/bottom, two custom misalignment spacers, Grade 8 centerlock nut, 29 lb-ft dry torque, blue Loctite-as-needed note, and paint-marker torque stripe unless superseded by released stackup drawing.	Hardware stackup checklist and torque-stripe confirmation.

FORM--COMPDOCU-BERT26-SUSP-RFQ-001

	CAR # 24	PROGRAM CPPFE	DWG NO BERT26-SUSP-RFQ-001	REV A	SHEET 20
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10.0 ASSEMBLY, PACKAGING, AND DELIVERY REQUIREMENTS

- Assembly scope is off-car suspension subsystem assembly only. Do not install the subsystem onto the chassis and do not fabricate chassis-side mounts unless a later written addendum explicitly adds that scope.
- Kit all components by FL, FR, RL, RR, plus common hardware and sensor kit. Use labels that match the BOM item numbers and assigned drawing numbers.
- Protect bearing bores, machined faces, threaded holes, and damper shafts during packaging. Prevent corrosion on steel parts and avoid aluminum/steel galvanic damage during shipping.
- Bag and tag hardware by joint. Include extra labels for left/right and fore/aft orientation where parts are visually similar.
- Deliver loose documentation: packing list, C of C, material certs, datasheets, inspection reports, deviation log, and setup sheets.

Kit	Contents	Labeling requirement	Serial / lot tracking
Front-left kit	Front upper/lower CA, front pullrod, front rocker, damper/spring, upright, hardware, assigned sensors	FL, part numbers, drawing revs, orientation arrows	Record part serial or lot number for each FL component and inspection report reference.
Front-right kit	Same as FL mirrored/opposite side, assigned sensors	FR, part numbers, drawing revs, orientation arrows	Record part serial or lot number for each FR component and inspection report reference.
Rear-left kit	Rear upper/lower CA, rear pullrod, rear rocker, damper/spring, upright, hardware, assigned sensors	RL, part numbers, drawing revs, orientation arrows	Record part serial or lot number for each RL component and inspection report reference.
Rear-right kit	Same as RL mirrored/opposite side, assigned sensors	RR, part numbers, drawing revs, orientation arrows	Record part serial or lot number for each RR component and inspection report reference.
Common hardware kit	Spacers, washers, nuts, 5/16-24 RH jam nuts, bearings, CA-joint hardware, replacement hardware, setup hardware, spare sensor labels, and sensor documentation	Hardware schedule line number and joint name; include assigned RFQ DWG NO and bag label	Include printed torque card, preliminary control-arm joint stackup, threadlocker/locking method, hardware schedule revision, sensor datasheet/calibration packet, and two spare labels per joint/sensor group.

11.0 QUOTE RESPONSE SCHEDULE AND DELIVERY TIME

Milestone	Date / Target	Owner	Notes
RFQ issue date	June 4, 2026	CPP Formula Electric	Final merged package sent to supplier/sponsor.
Supplier questions due	June 9, 2026, 5:00 PM PT	Supplier	Questions submitted in writing.
Team answers / addendum release	June 11, 2026	CPP Formula Electric	All suppliers receive the same clarification if multiple suppliers.
Quote due	June 18, 2026, 5:00 PM PT	Supplier	Itemized price, lead time, assumptions, deviations.
Supplier selection / award	June 23, 2026	CPP Formula Electric	Evaluate cost, schedule, risk, quality.
First article due	July 14, 2026	Supplier	Suggested: uprights, control arms, rockers.
Final parts complete	July 31, 2026	Supplier	All inspection records complete.
Ship date	August 3, 2026	Supplier	Quote shipping separately.
Required delivery date	August 7, 2026	Supplier / CPPFE	Must align with build and competition schedule.

FORM--COMPDOCU-BERT26-SUSP-RFQ-001

		CAR # 24	PROGRAM CPPFE	DWG NO BERT26-SUSP-RFQ-001	REV A	SHEET 21
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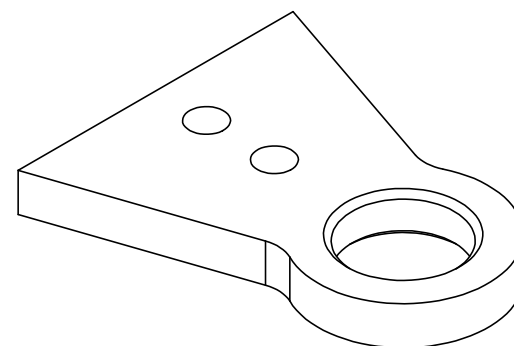
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FORM--COMPDOCU-BERT26-SUSP-RFQ-001

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SECTION A-A

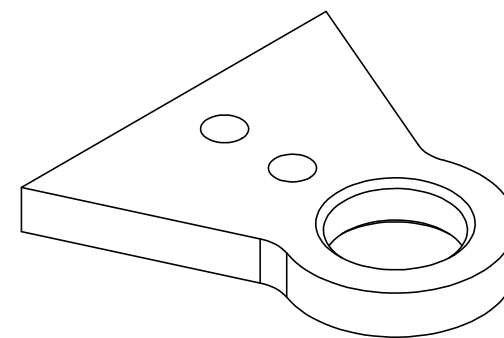
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				CHECKED					
				ENG APPR.					
				MFG APPR.					
			INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.					
			MATERIAL Steel	COMMENTS:			SIZE A	DWG. NO. 1	REV B
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	APPLICATION		DO NOT SCALE DRAWING			SCALE: 1:1 WEIGHT: SHEET 1 OF 1			

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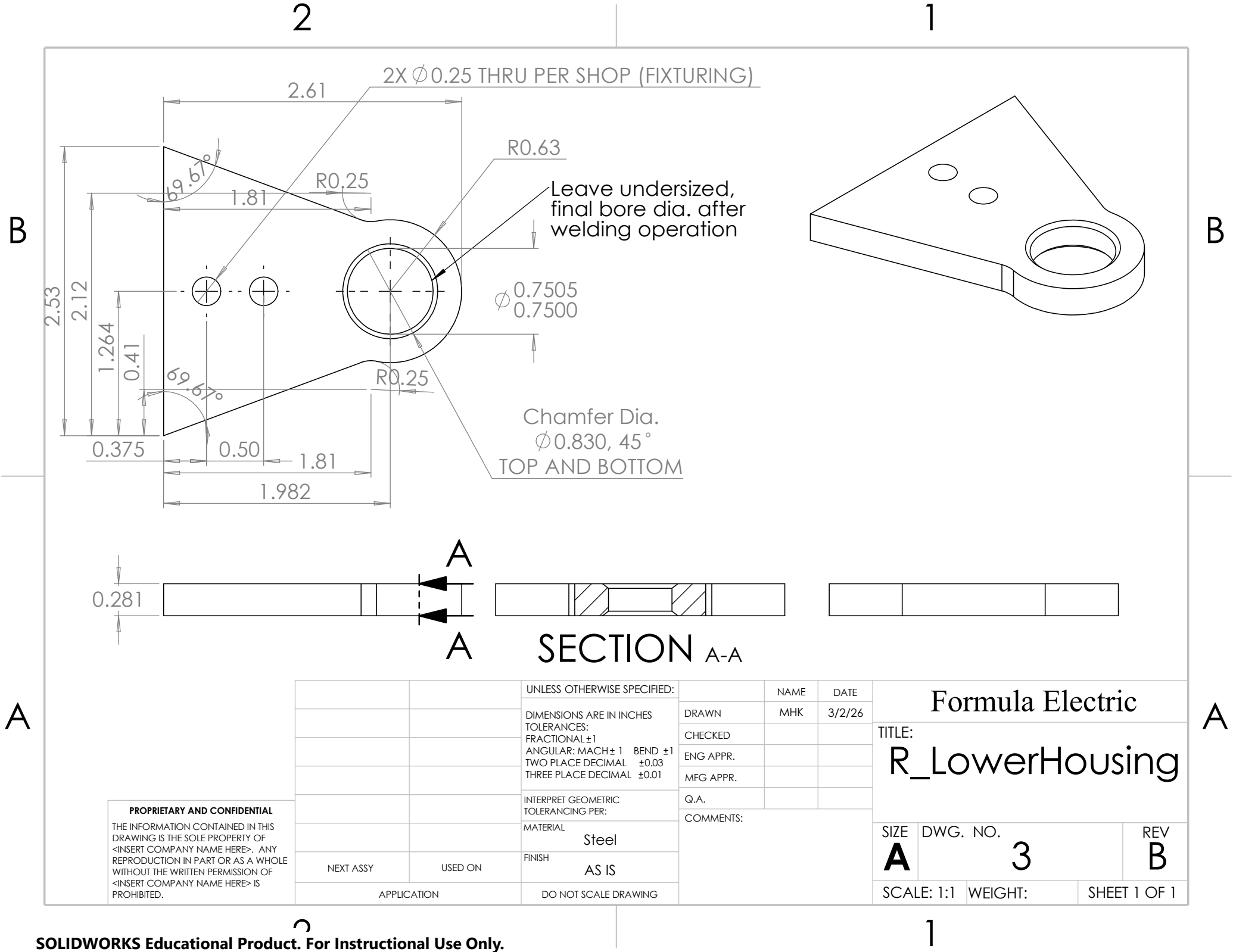
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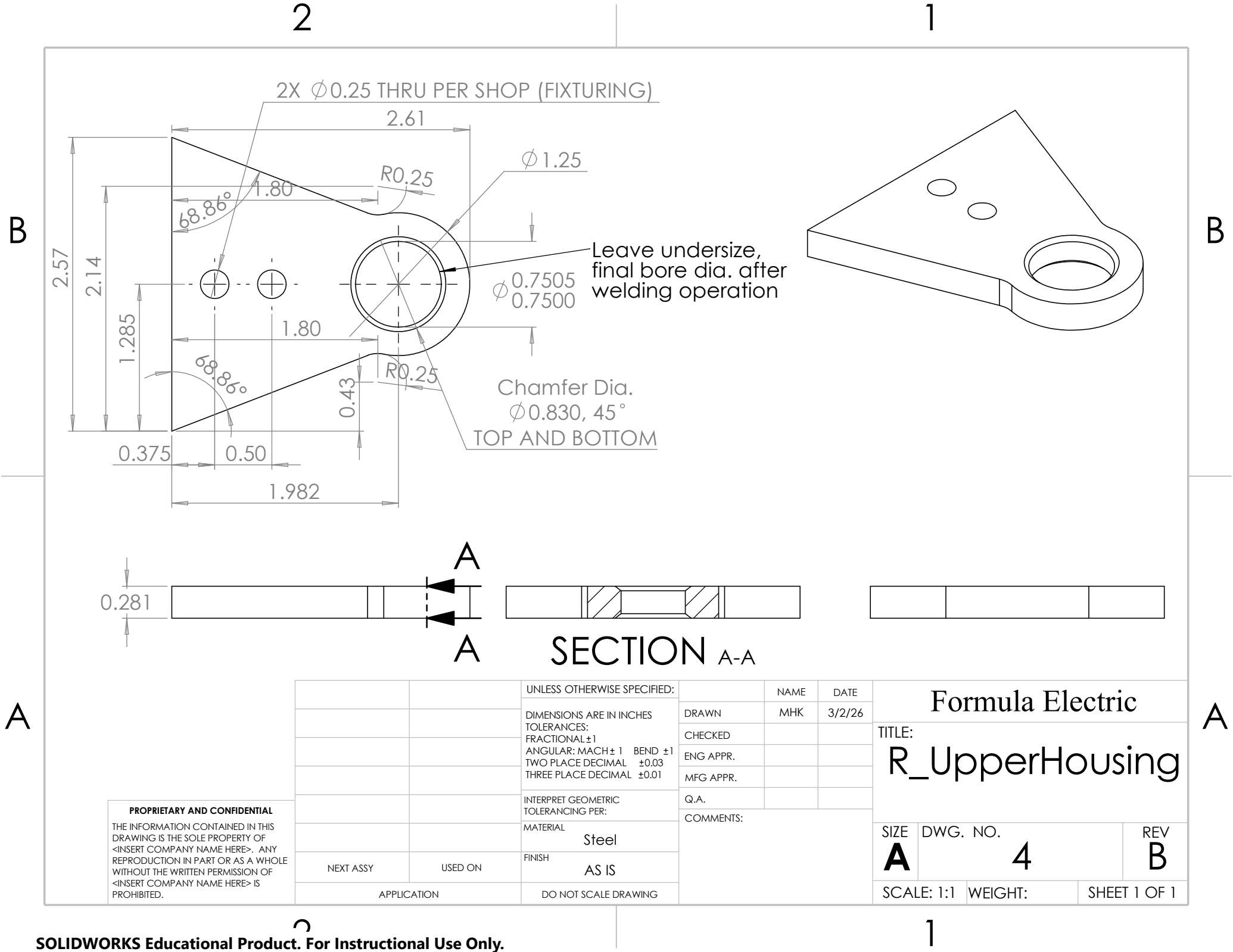
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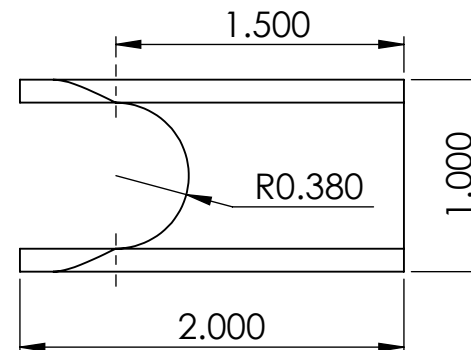
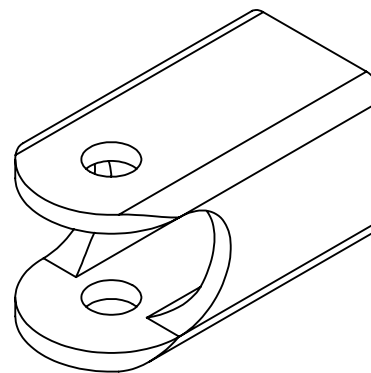
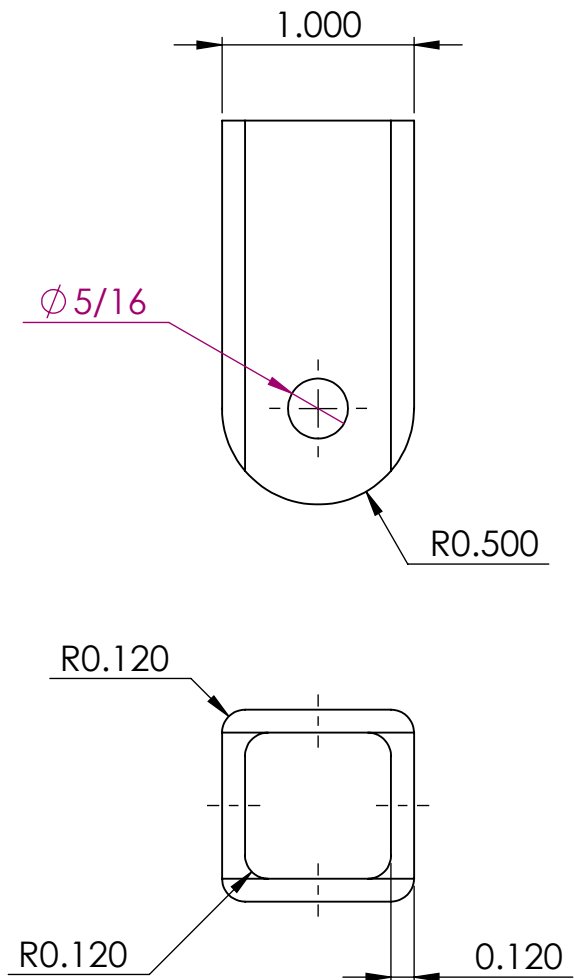
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PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <INSERT COMPANY NAME HERE>. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <INSERT COMPANY NAME HERE> IS PROHIBITED.			UNLESS OTHERWISE SPECIFIED:		NAME	DATE	Formula Electric TITLE: F_UpperHousing SIZE A DWG. NO. 2 SCALE: 1:1 WEIGHT: SHEET 1 OF 1		
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				CHECKED					
				ENG APPR.					
				MFG APPR.					
			INTERPRET GEOMETRIC TOLERANCING PER:	Q.A. COMMENTS:					
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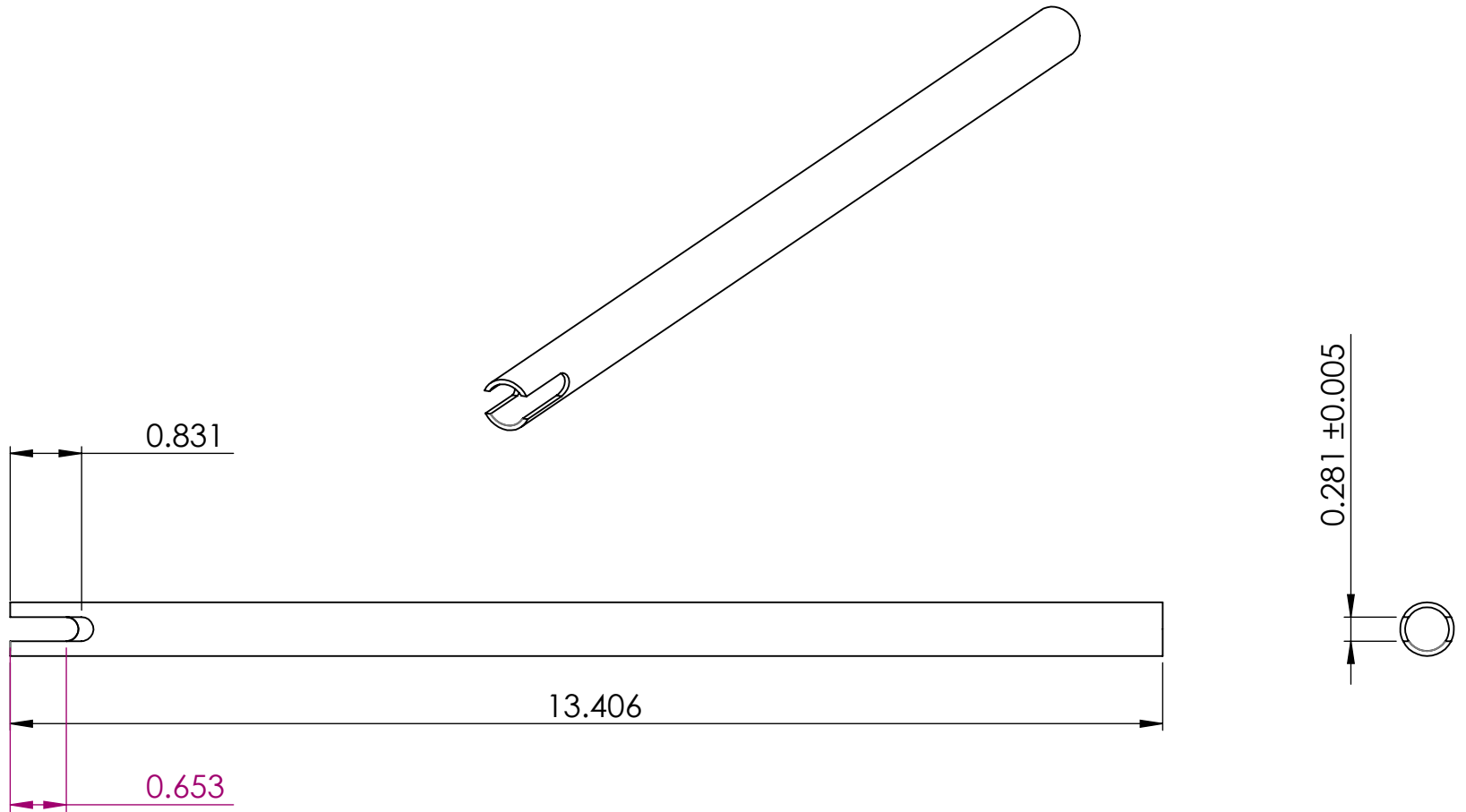
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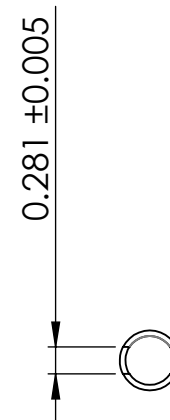
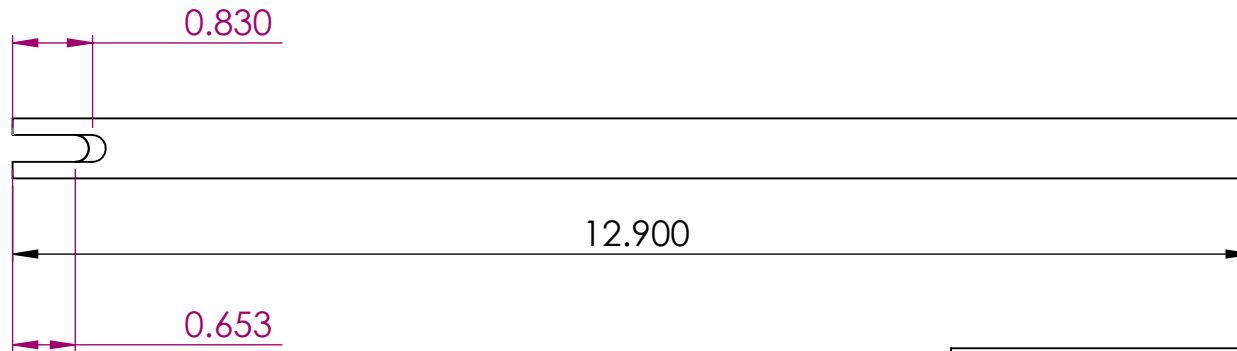
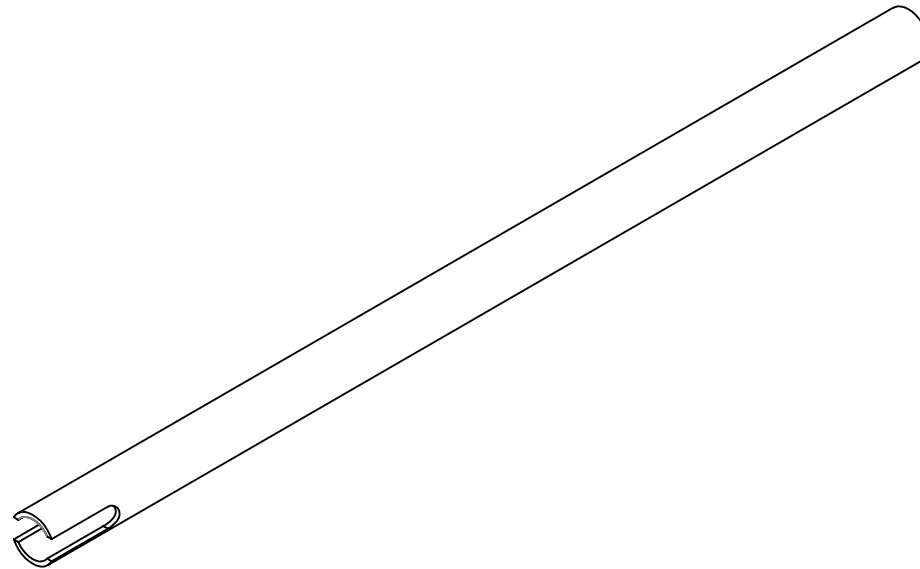




FORMULA SAE ELECTRIC	BY Jose Higareda
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: +/- 0.005	TITLE Control Arm Mounting Tab (General)
MATERIAL Steel, A513	DATE 3/1/26



FORMULA SAE ELECTRIC	BY Jose Higareda
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: +/- 0.01	TITLE FLL & FRL AFT ELEMENT
MATERIAL 4130 Tube, OD 5/8, ID 0.509	DATE 2/23/2026



FORMULA SAE ELECTRIC

BY

Jose Higareda

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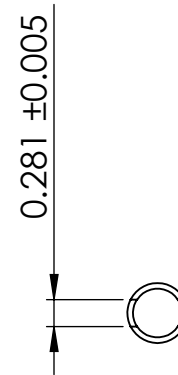
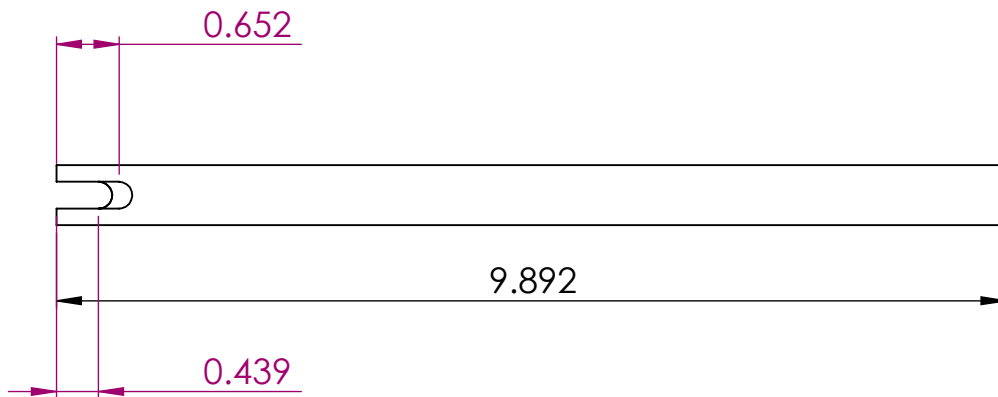
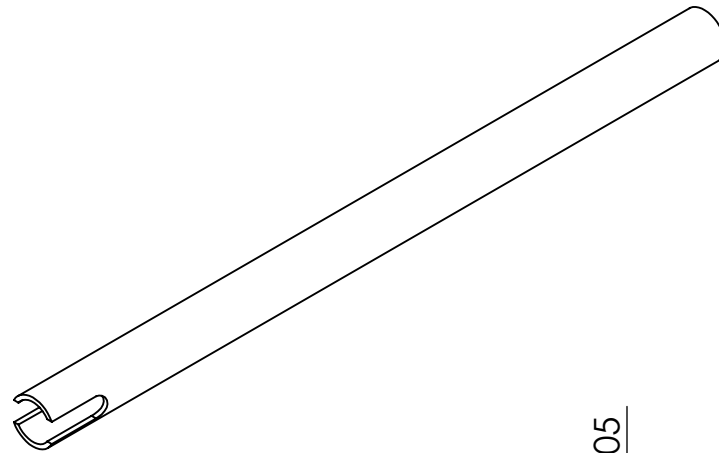
FLL & FRL FORE
ELEMENT

MATERIAL

4130 Tube, OD 5/8, ID 0.509

DATE

2/23/2026



FORMULA SAE ELECTRIC

BY

Jose Higareda

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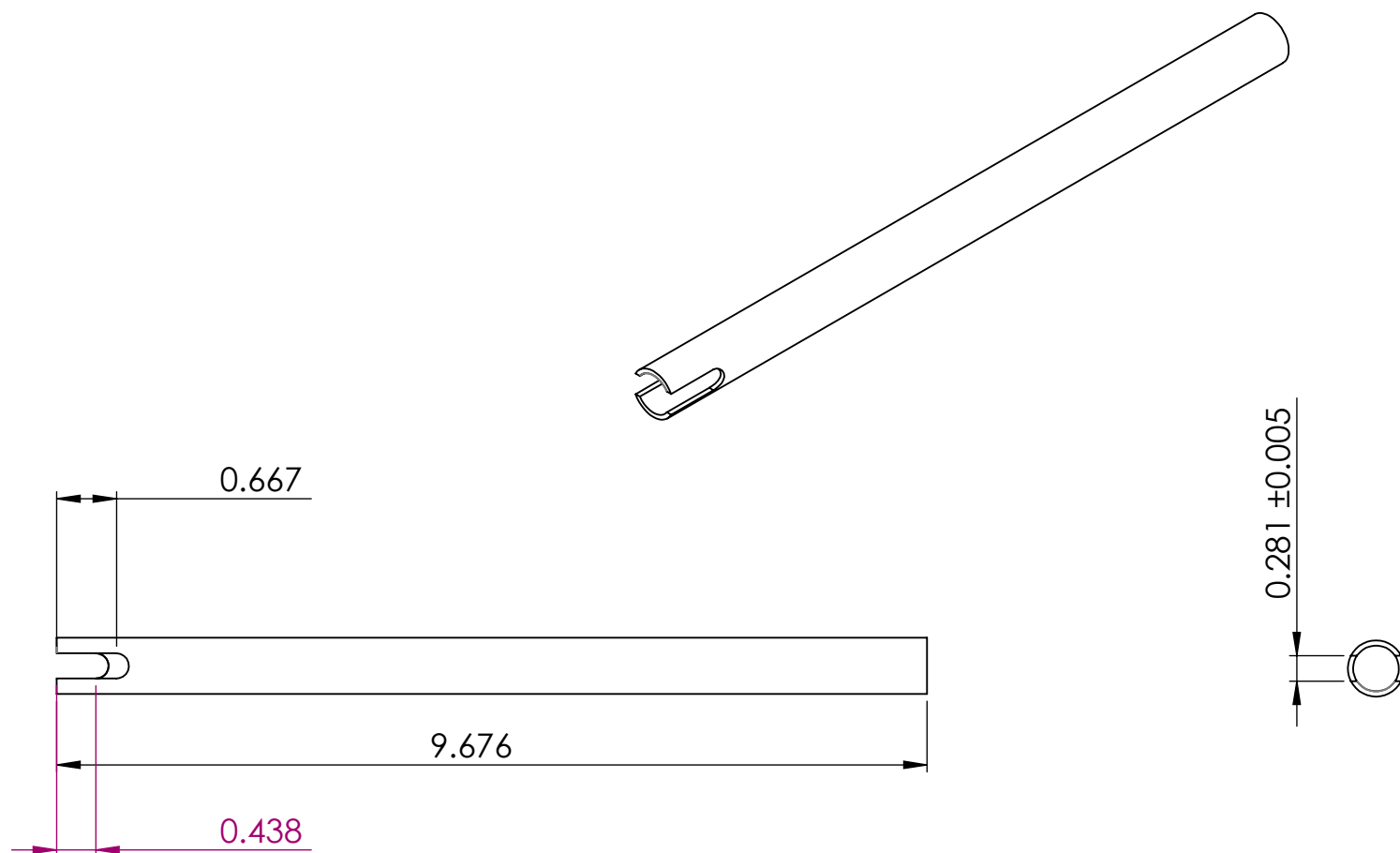
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MATERIAL

4130 Tube, OD 5/8, ID 0.509

DATE

2/23/2026



FORMULA SAE ELECTRIC

BY

Jose Higareda

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DIMENSIONS ARE IN INCHES
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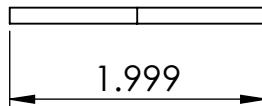
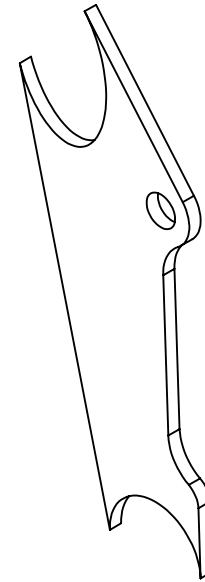
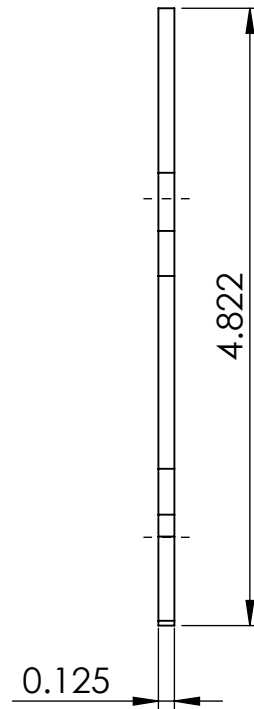
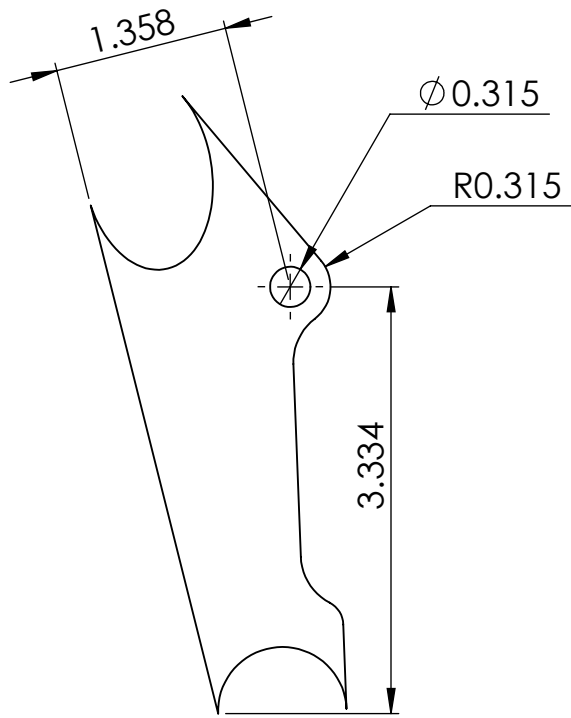
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4130 Tube, OD 5/8, ID 0.509

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2/23/2026



FORMULA SAE ELECTRIC

BY Jose Higareda

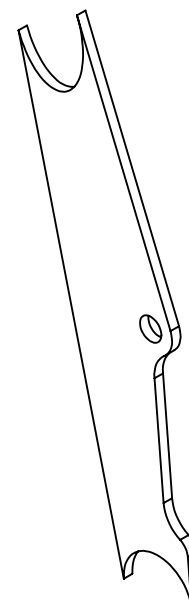
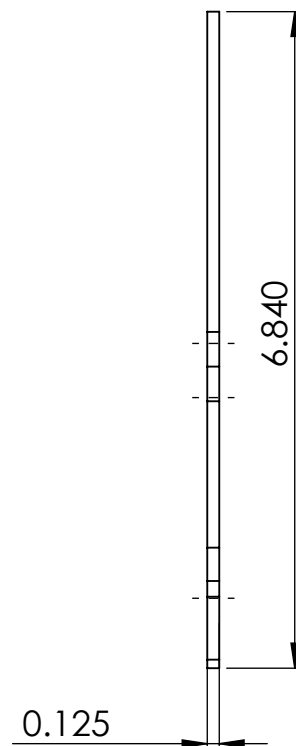
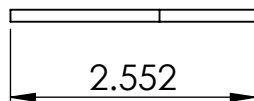
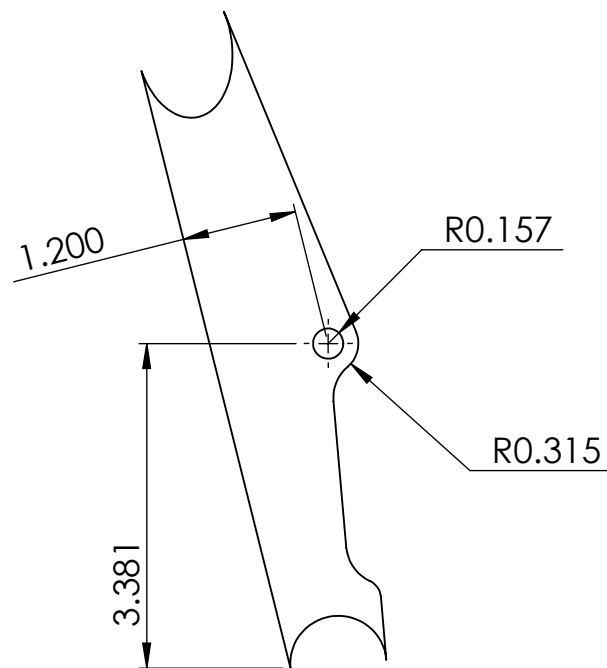
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TOLERANCES: +/- 0.005

TITLE
Front Aft
Coilover-Chassis
Mount

MATERIAL
4130 Steel

DATE
4/16/26



FORMULA SAE ELECTRIC

BY

Jose Higareda

UNLESS OTHERWISE SPECIFIED:

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TOLERANCES: +/- 0.005

TITLE

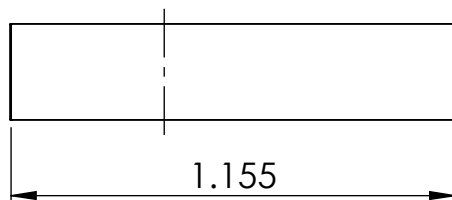
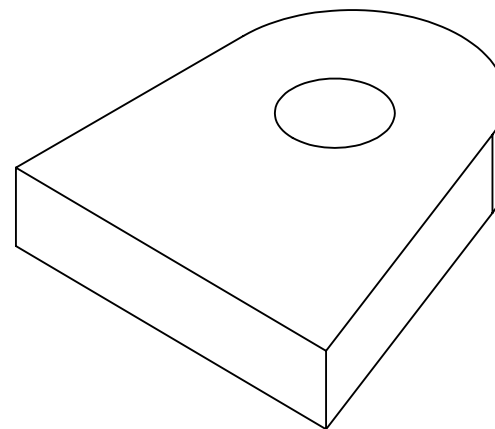
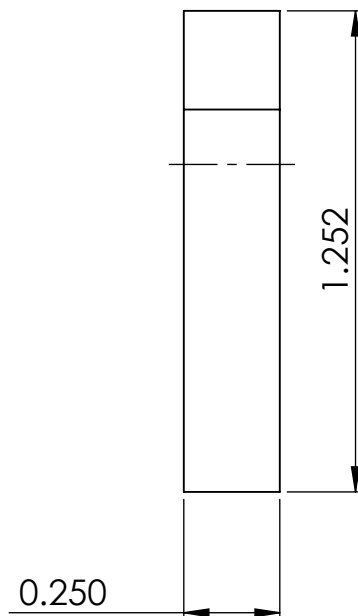
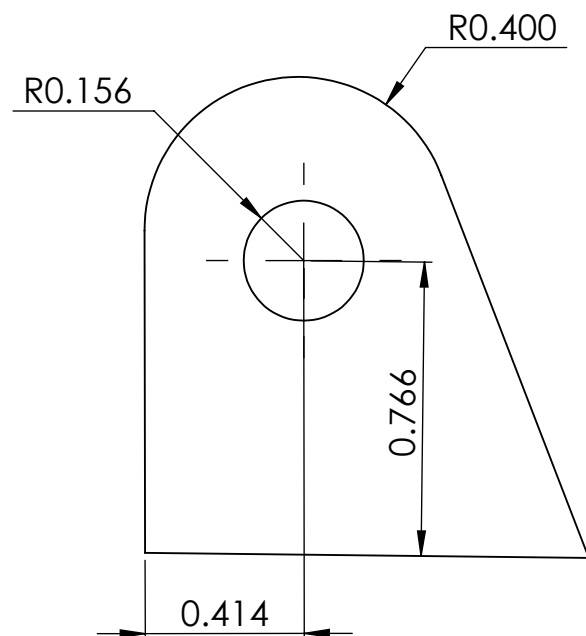
Front Fore
Coilover-Chassis
Mount

MATERIAL

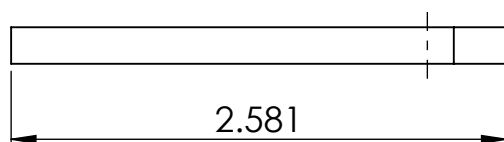
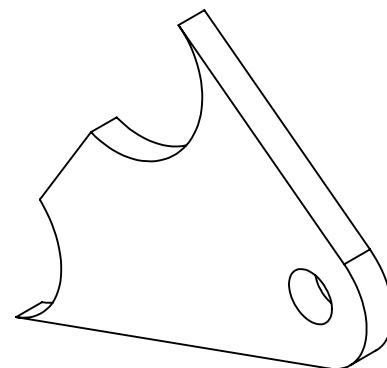
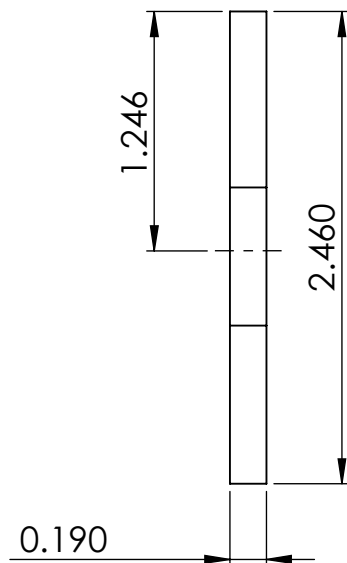
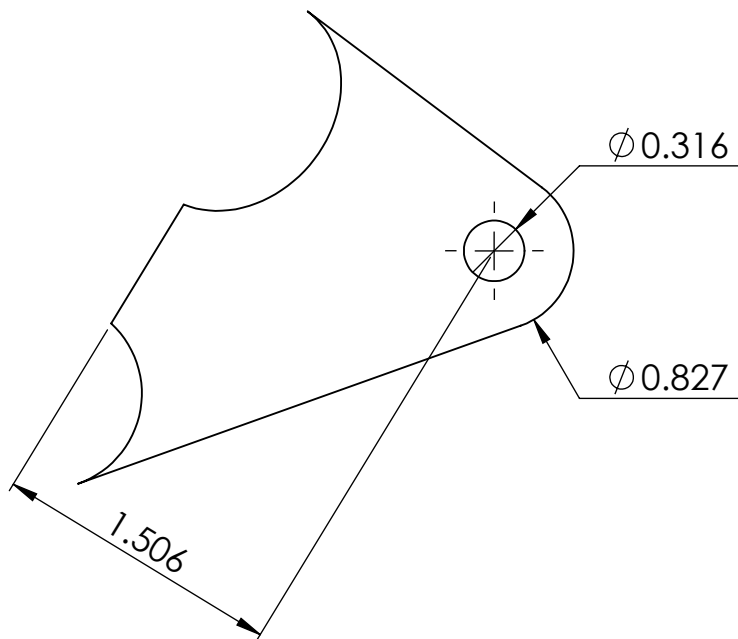
4130 Steel

DATE

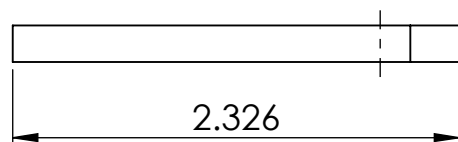
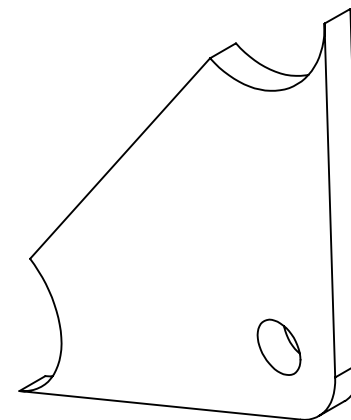
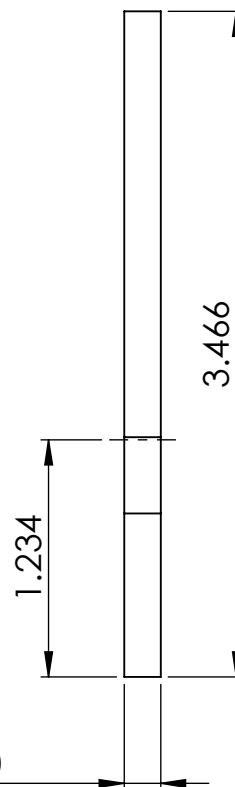
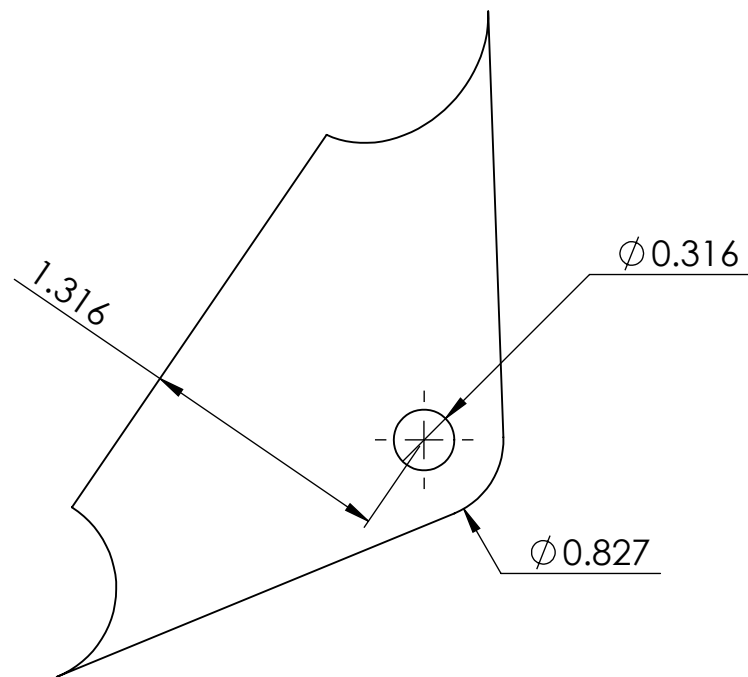
4/16/26



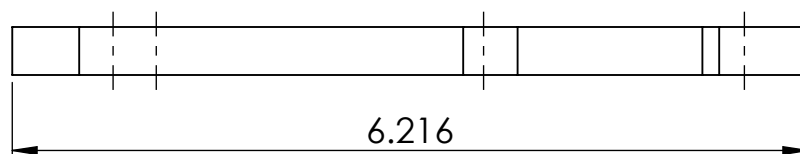
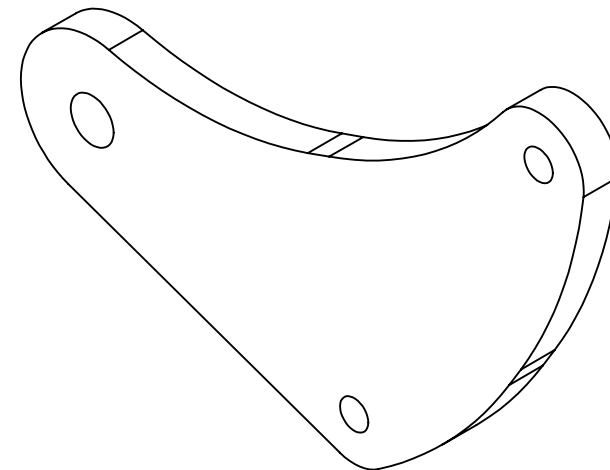
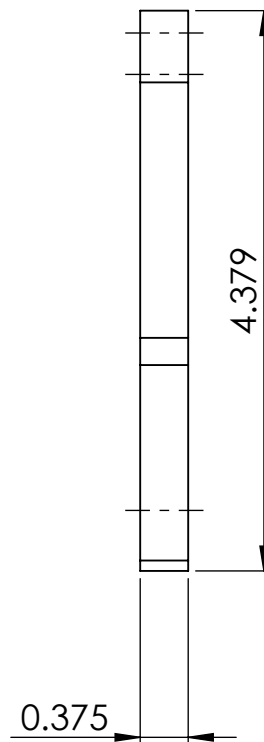
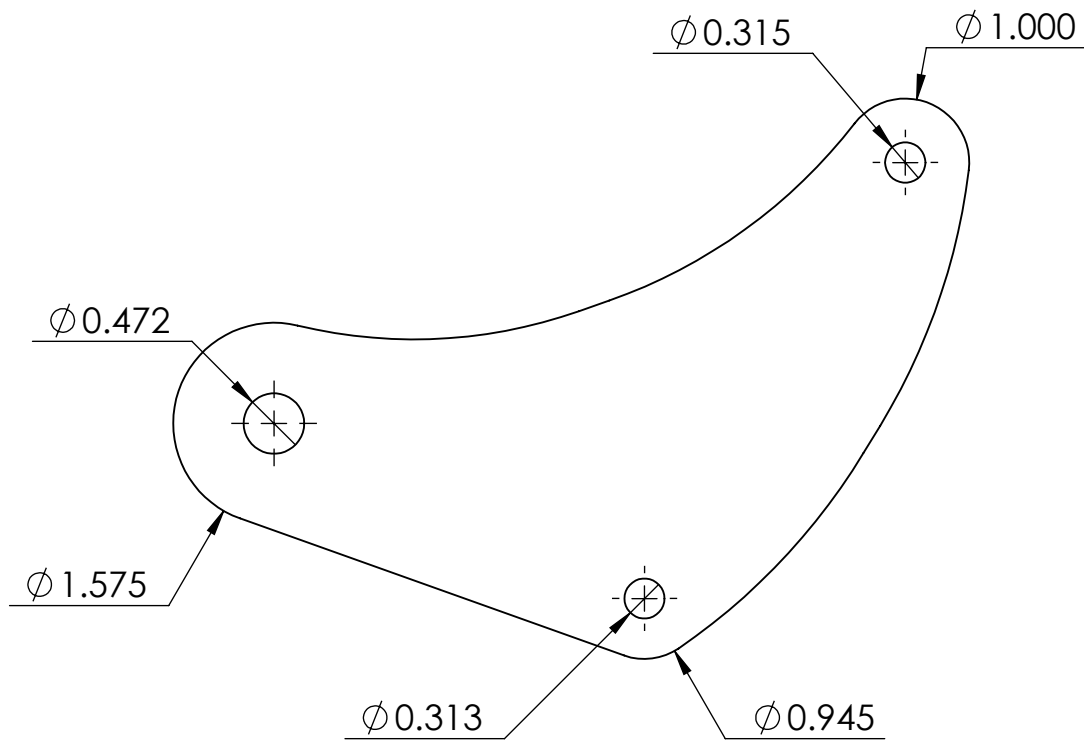
FORMULA SAE ELECTRIC	BY Jose Higareda
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: +/- 0.005	TITLE Front Pullrod CA Tab
MATERIAL 4130 Steel	DATE 4/20/26



FORMULA SAE ELECTRIC	BY Jose Higareda
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: +/- 0.005	TITLE Front Rocker-Chassis Aft Mount
MATERIAL 4130 Steel	DATE 4/20/26



FORMULA SAE ELECTRIC	BY Jose Higareda
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: +/- 0.005	TITLE Front Rocker- Chassis Fore Mount
MATERIAL 4130 Steel	DATE 4/20/26



FORMULA SAE ELECTRIC

BY

Jose Higareda

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES
TOLERANCES: ± 0.005

TITLE

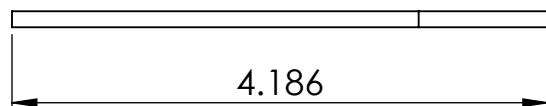
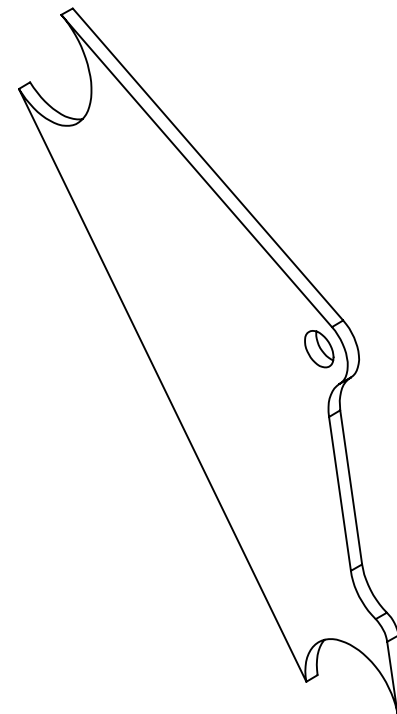
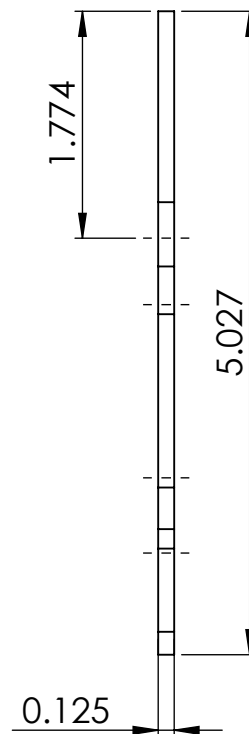
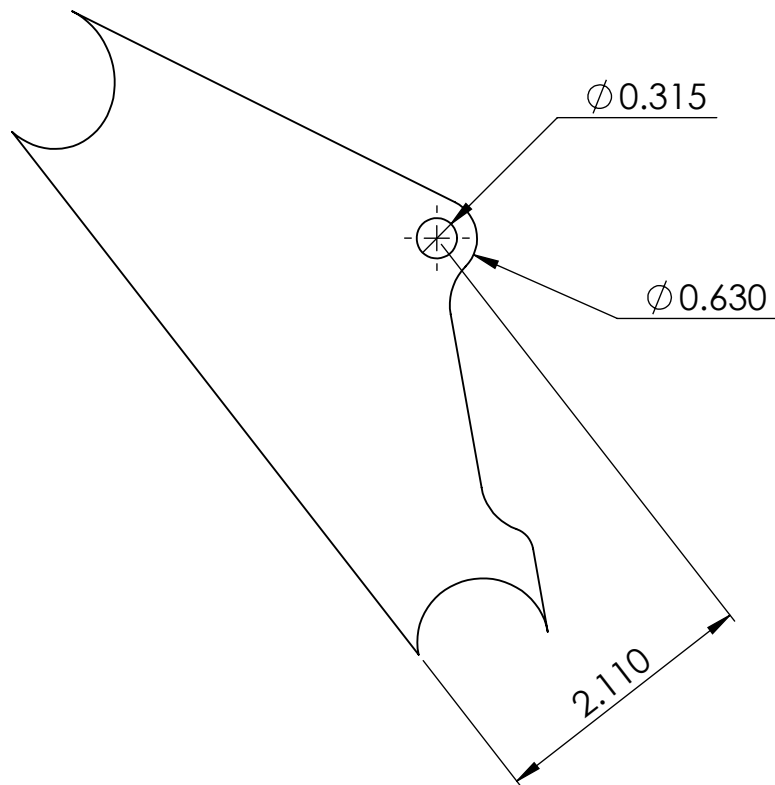
Front Suspension
Rocker

MATERIAL

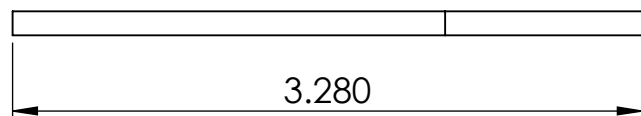
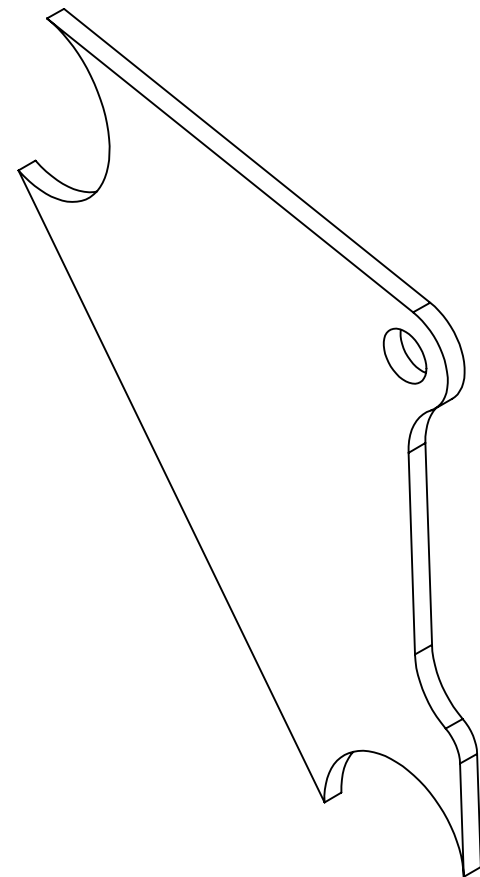
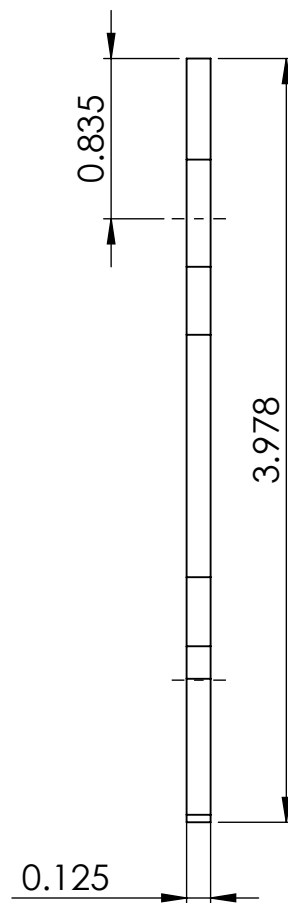
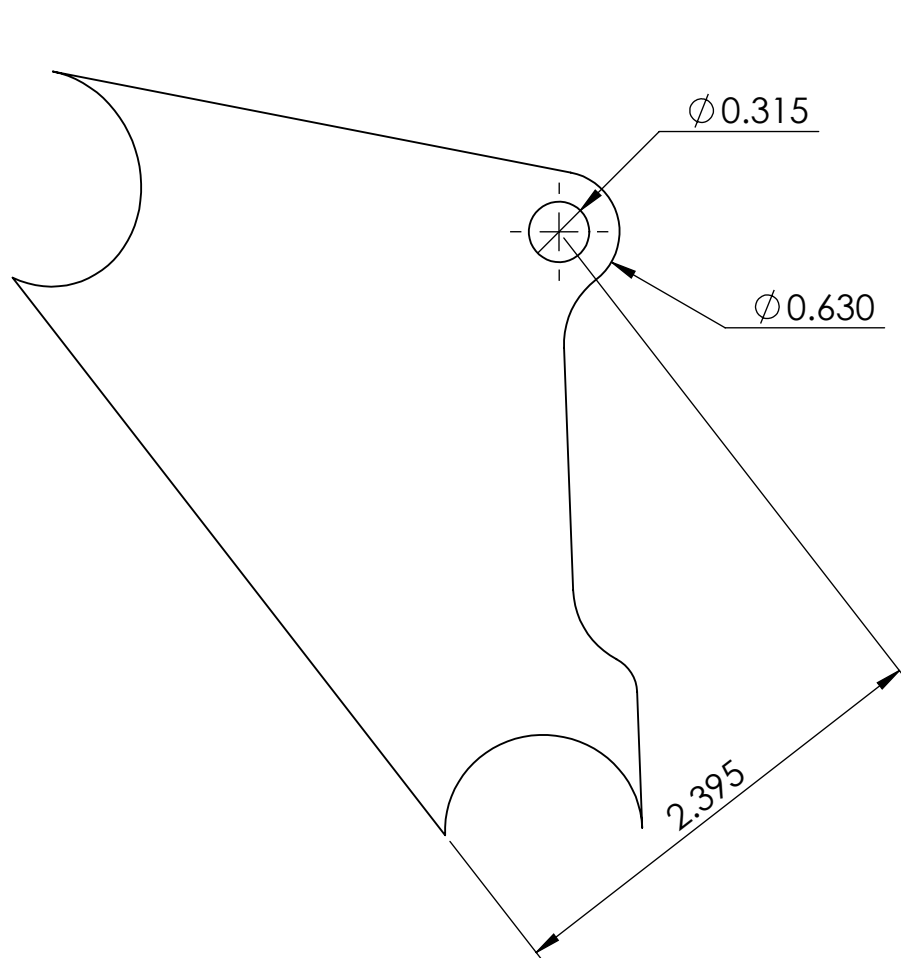
Al 6061-T6

DATE

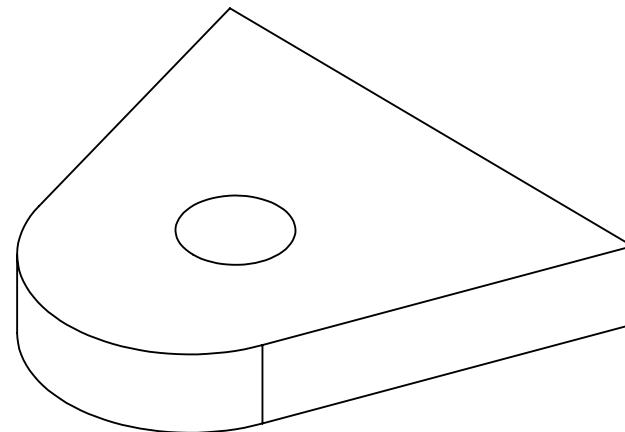
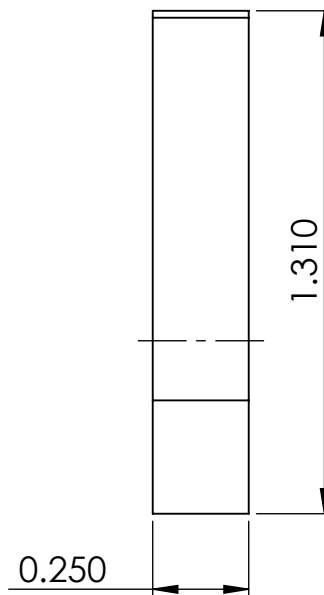
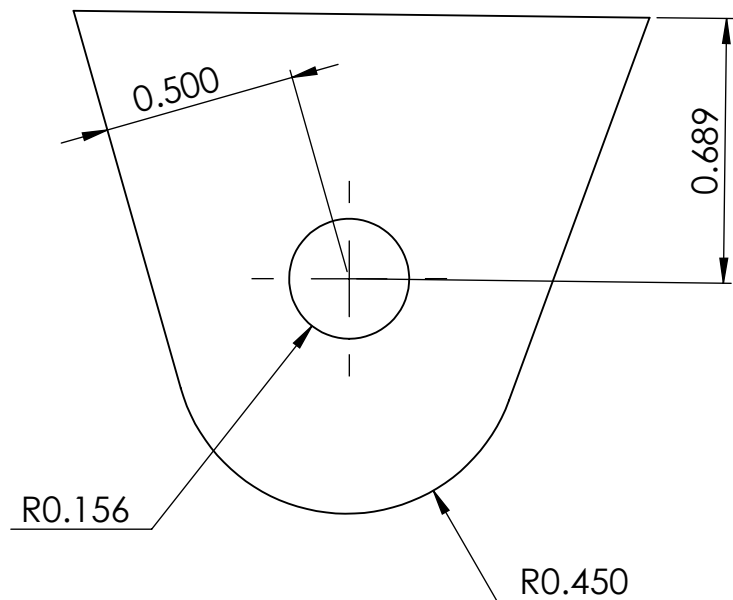
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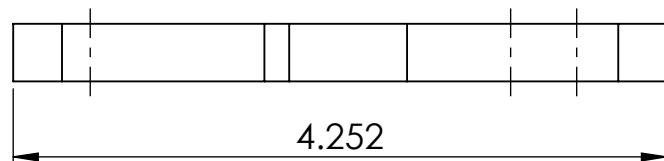
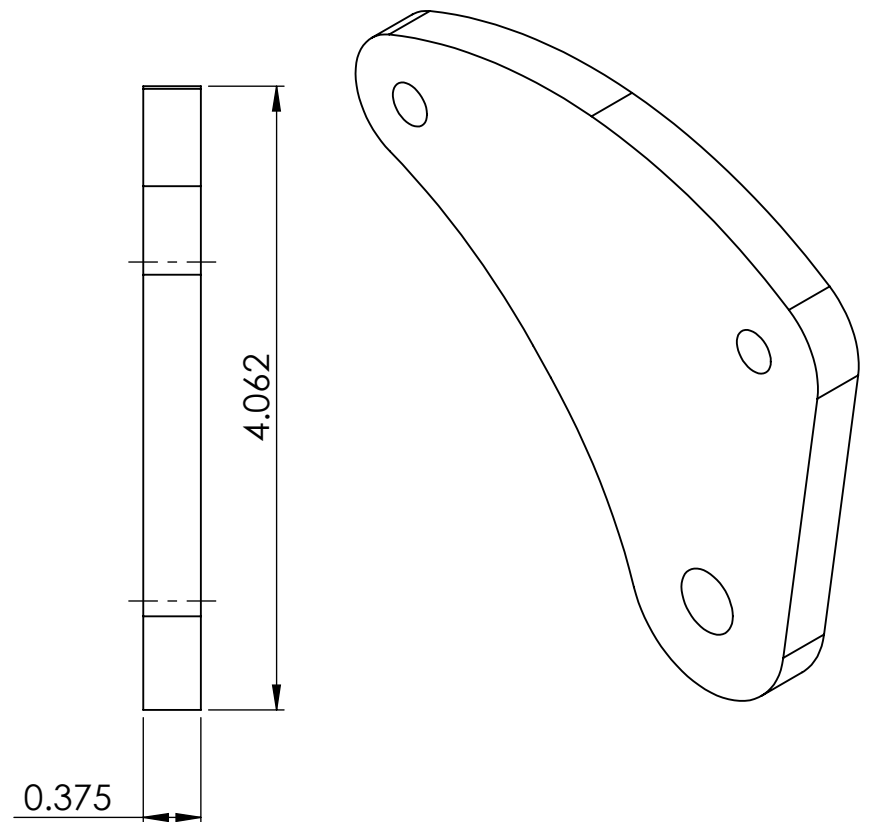
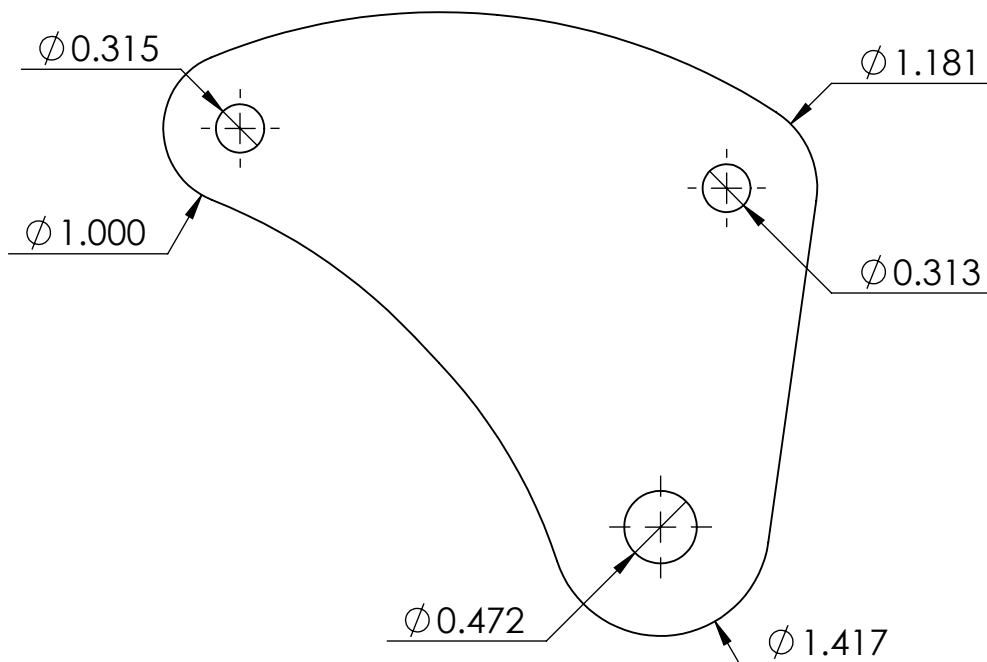
FORMULA SAE ELECTRIC	BY Jose Higareda
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: +/- 0.005	TITLE Rear Coilover-Chassis Aft Mount
MATERIAL 4130 Steel	DATE 4/20/26



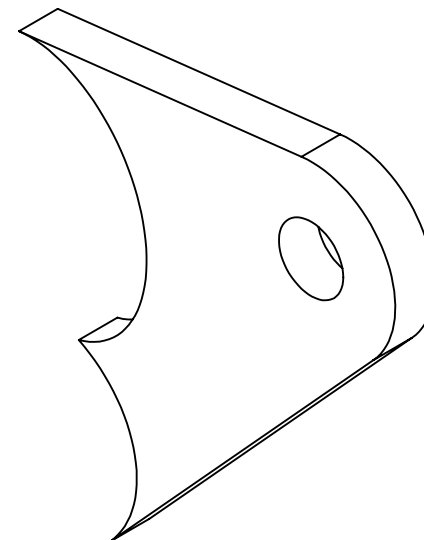
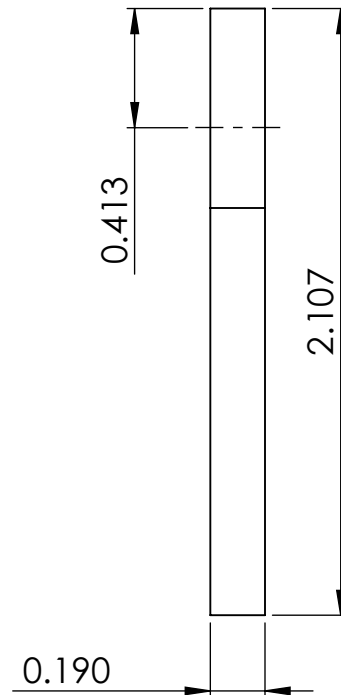
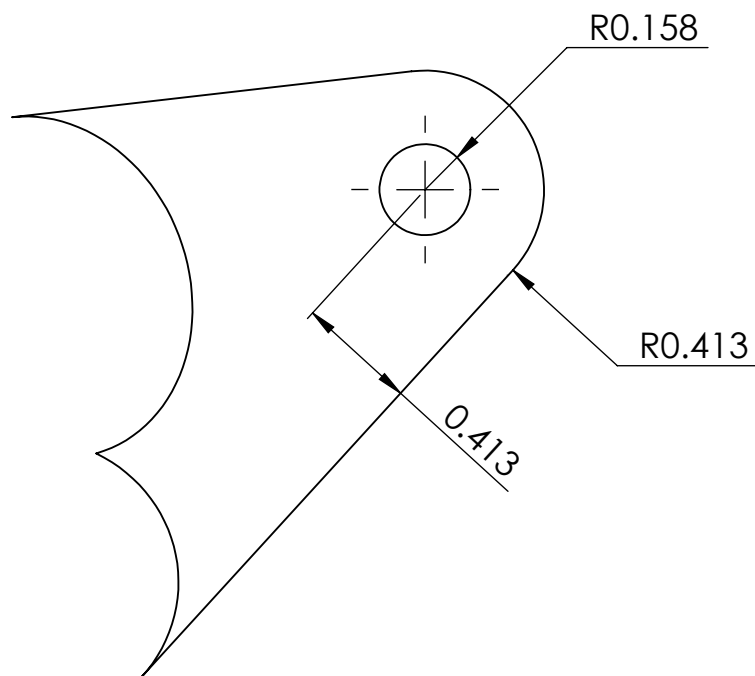
FORMULA SAE ELECTRIC	BY Jose Higareda
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: +/- 0.005	TITLE Rear Coilover- Chassis Fore Mount
MATERIAL 4130 Steel	DATE 4/20/26



FORMULA SAE ELECTRIC	BY Jose Higareda
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: +/- 0.005	TITLE Rear Pullrod CA Tab
MATERIAL 4130 Steel	DATE 4/20/26



FORMULA SAE ELECTRIC	BY Jose Higareda
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: +/- 0.005	TITLE Rear Suspension Rocker
MATERIAL Al 6061-T6	DATE 4/20/26



FORMULA SAE ELECTRIC

BY Jose Higareda

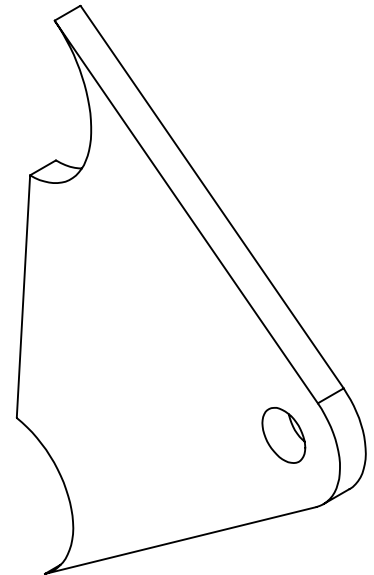
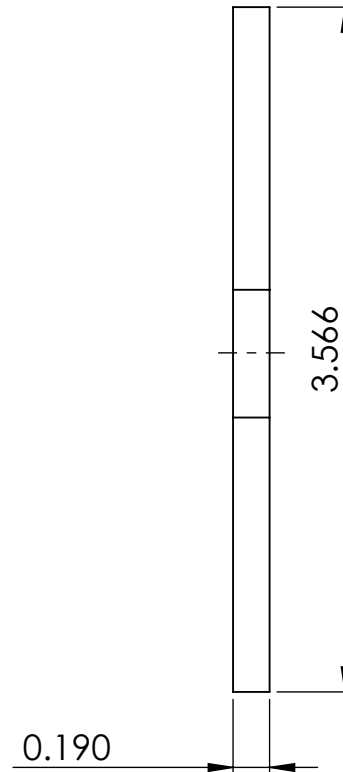
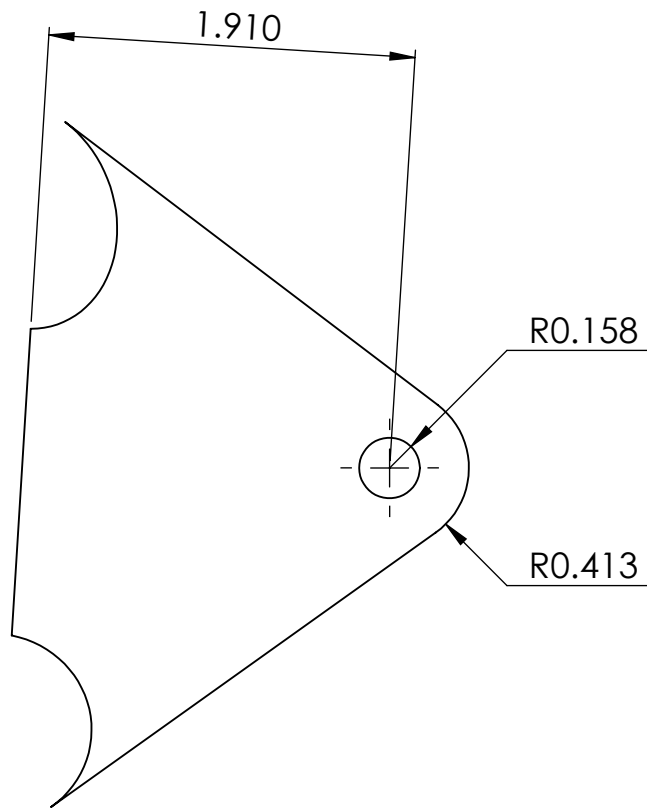
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DIMENSIONS ARE IN INCHES
TOLERANCES: +/- 0.005

TITLE
Rear Rocker-
Chassis Aft Mount

MATERIAL
4130 Steel

DATE
4/20/26



FORMULA SAE ELECTRIC

BY Jose Higareda

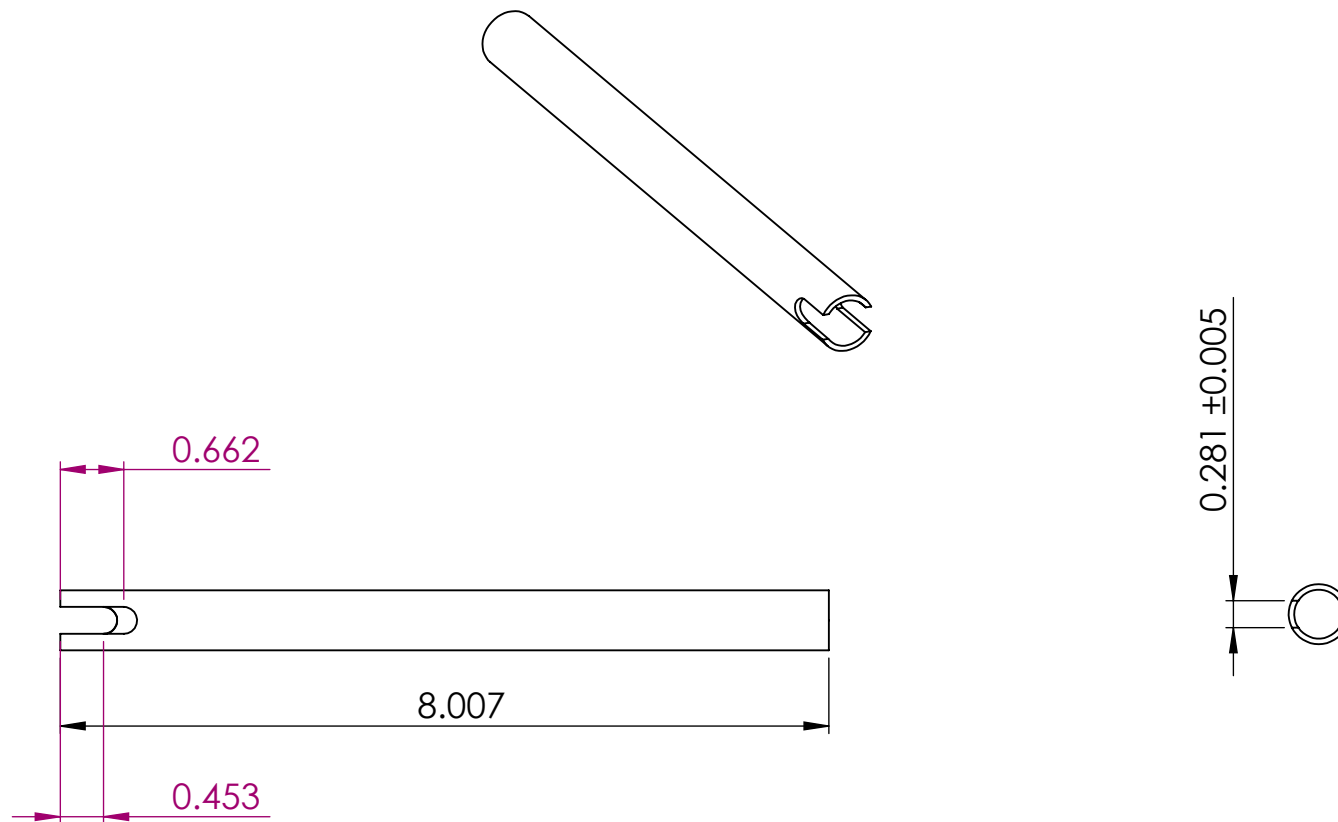
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TOLERANCES: +/- 0.005

TITLE
Rear Rocker-Chassis
Fore Mount

MATERIAL
4130 Steel

DATE
4/20/26



FORMULA SAE ELECTRIC

BY

Jose Higareda

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES
TOLERANCES: +/- 0.01

TITLE

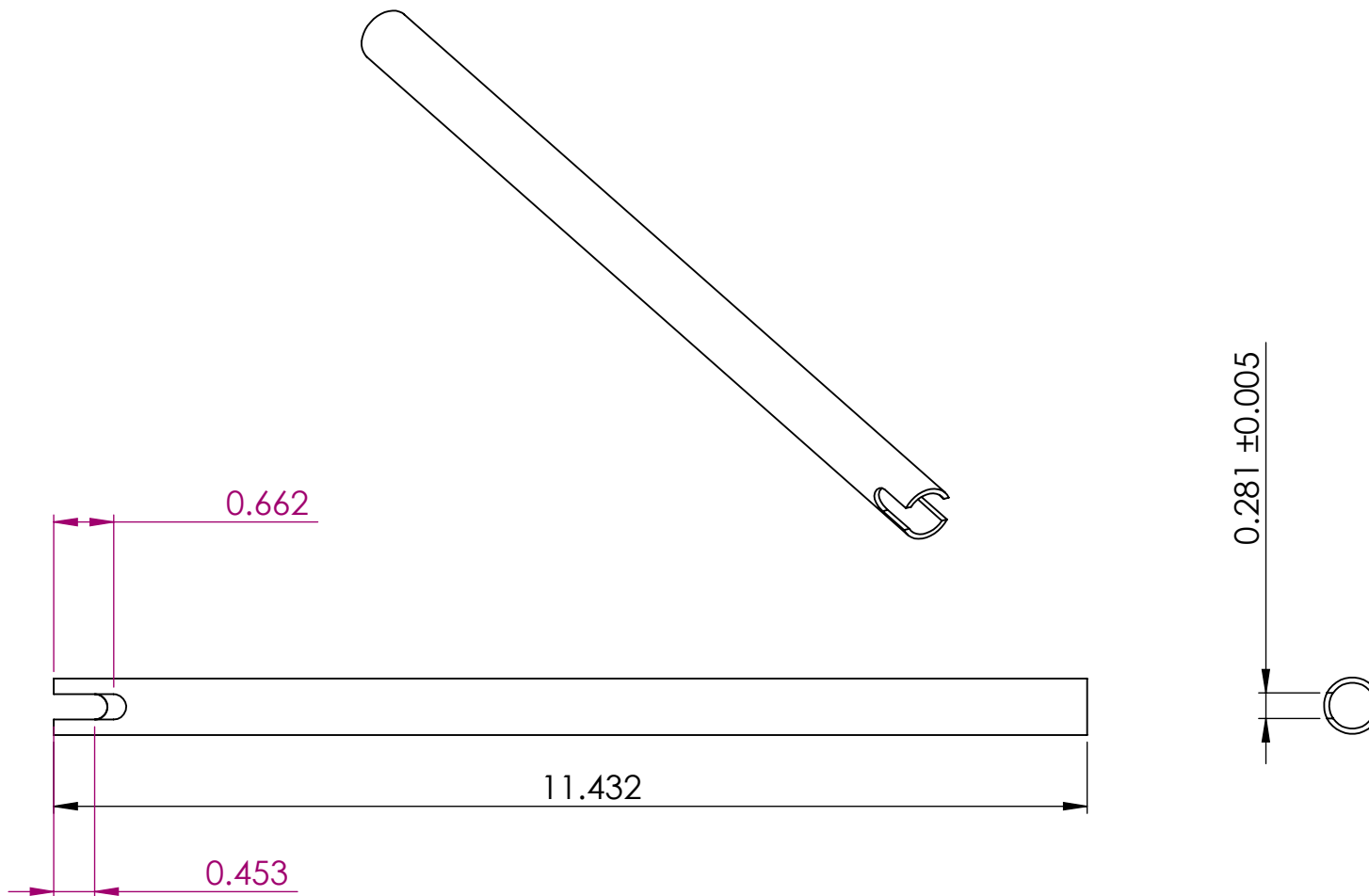
RLL & RRL AFT
ELEMENT

MATERIAL

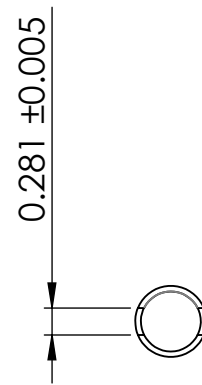
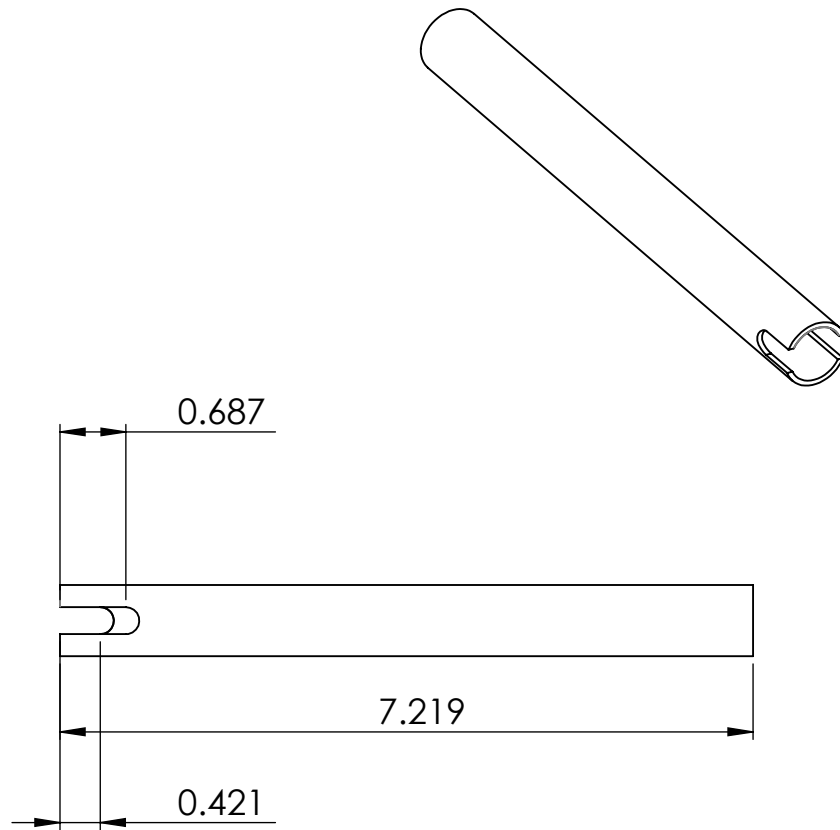
4130 Tube, OD 5/8, ID 0.509

DATE

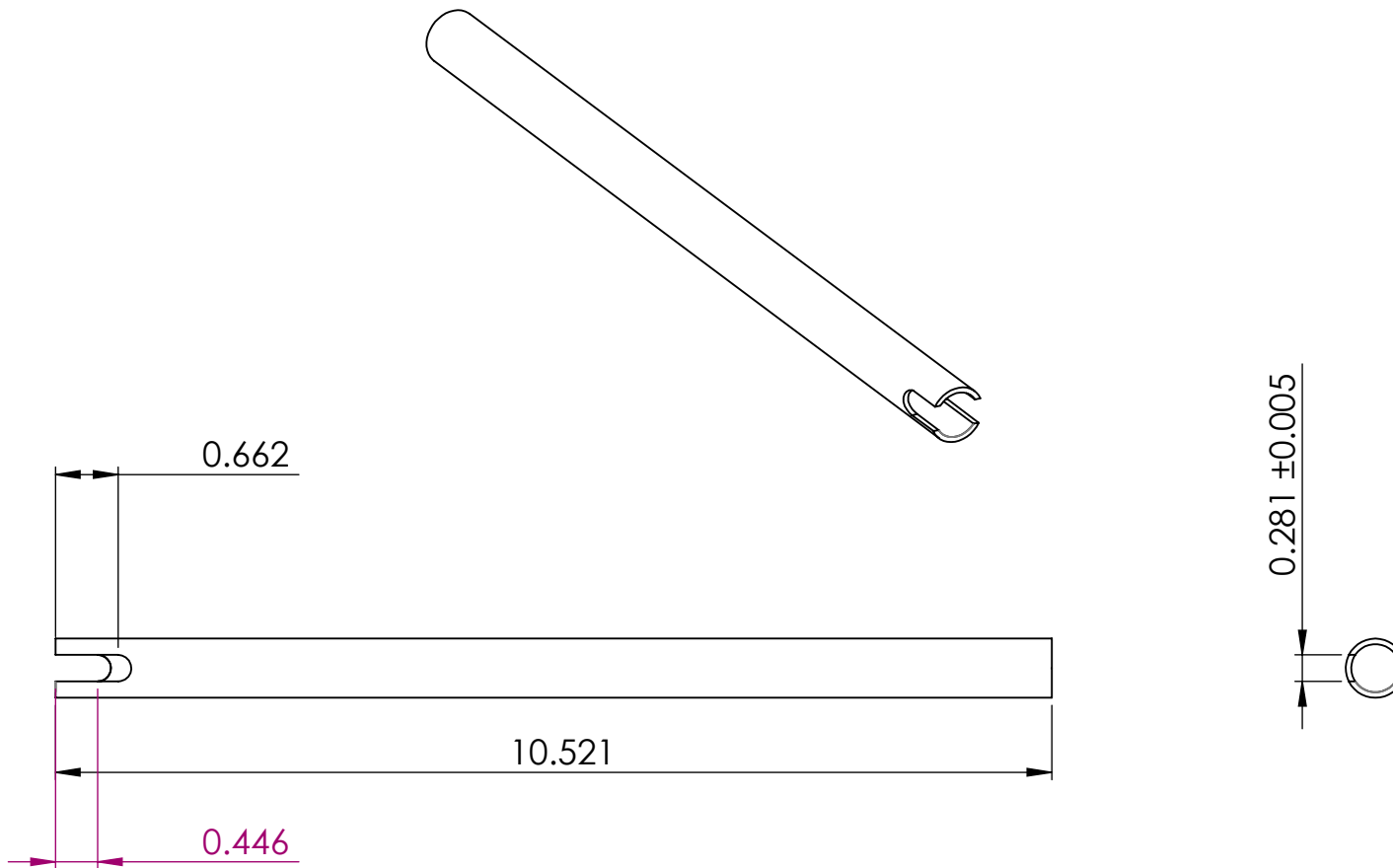
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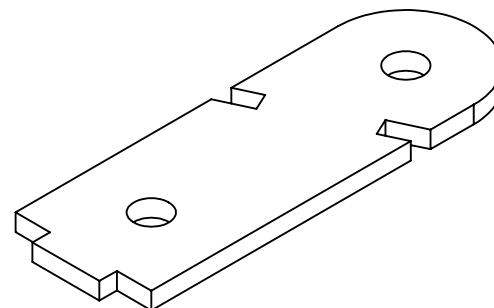
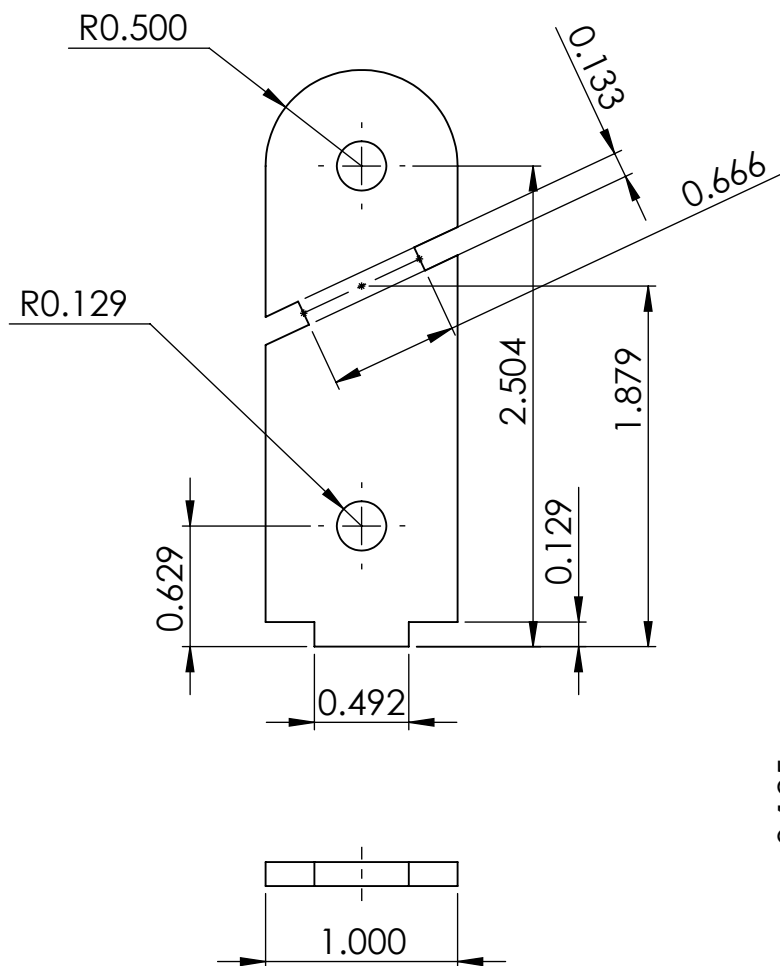
FORMULA SAE ELECTRIC	BY Jose Higareda
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: +/- 0.01	TITLE RLL & RRL FORE ELEMENT
MATERIAL 4130 Tube, OD 5/8, ID 0.509	DATE 2/23/2026



FORMULA SAE ELECTRIC	BY Jose Higareda
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: +/- 0.01	TITLE RLU & RRU AFT ELEMENT
MATERIAL 4130 Tube, OD 5/8, ID 0.509	DATE 2/23/2026



FORMULA SAE ELECTRIC	BY Jose Higareda
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: +/- 0.01	TITLE RLU & RRU FORE ELEMENT
MATERIAL 4130 Tube, OD 5/8, ID 0.509	DATE 2/23/2026



FORMULA SAE ELECTRIC	BY Jose Higareda
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: +/- 0.005	TITLE Steering Rack Mount C1
MATERIAL 4130 Steel	DATE 4/20/26