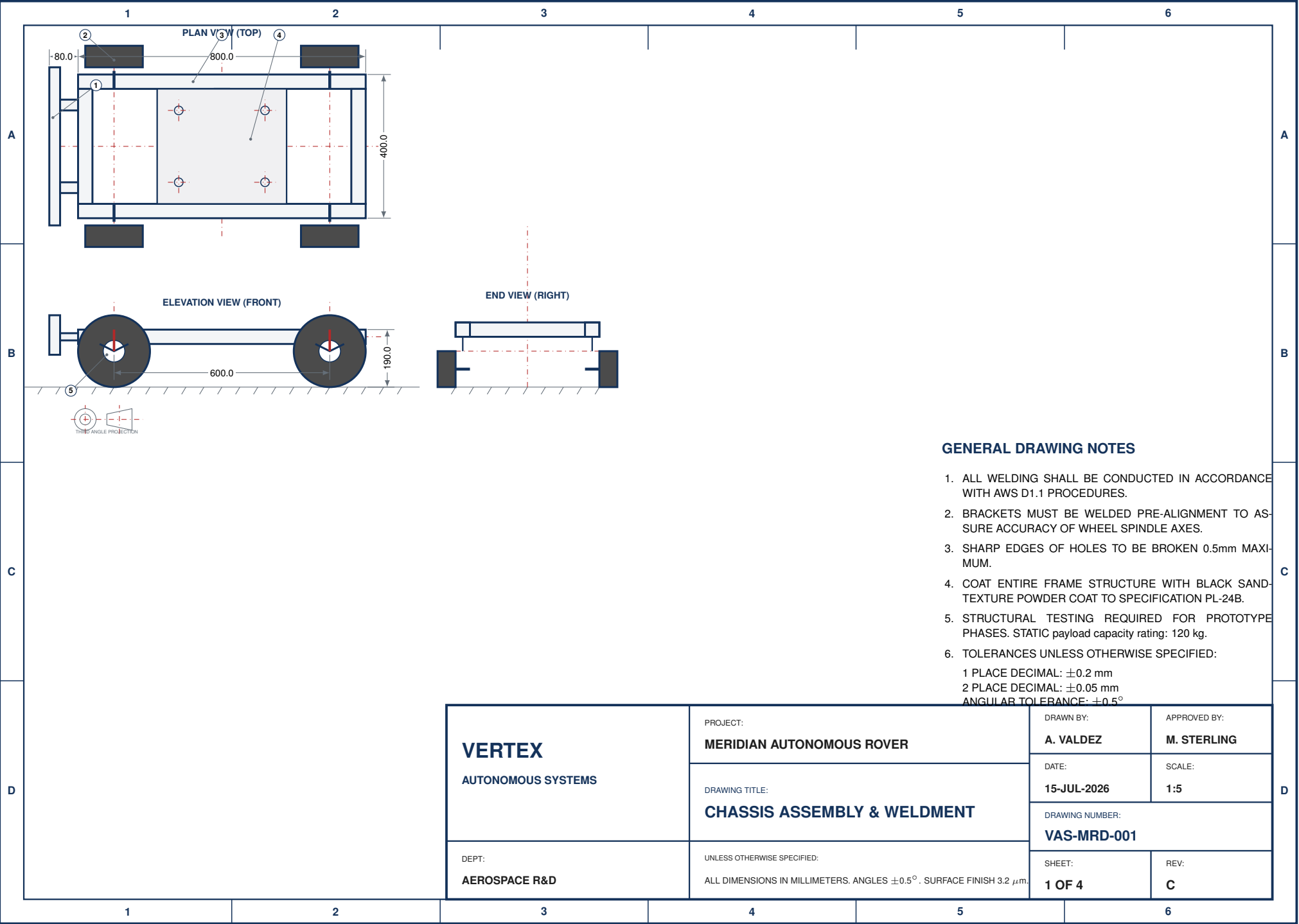
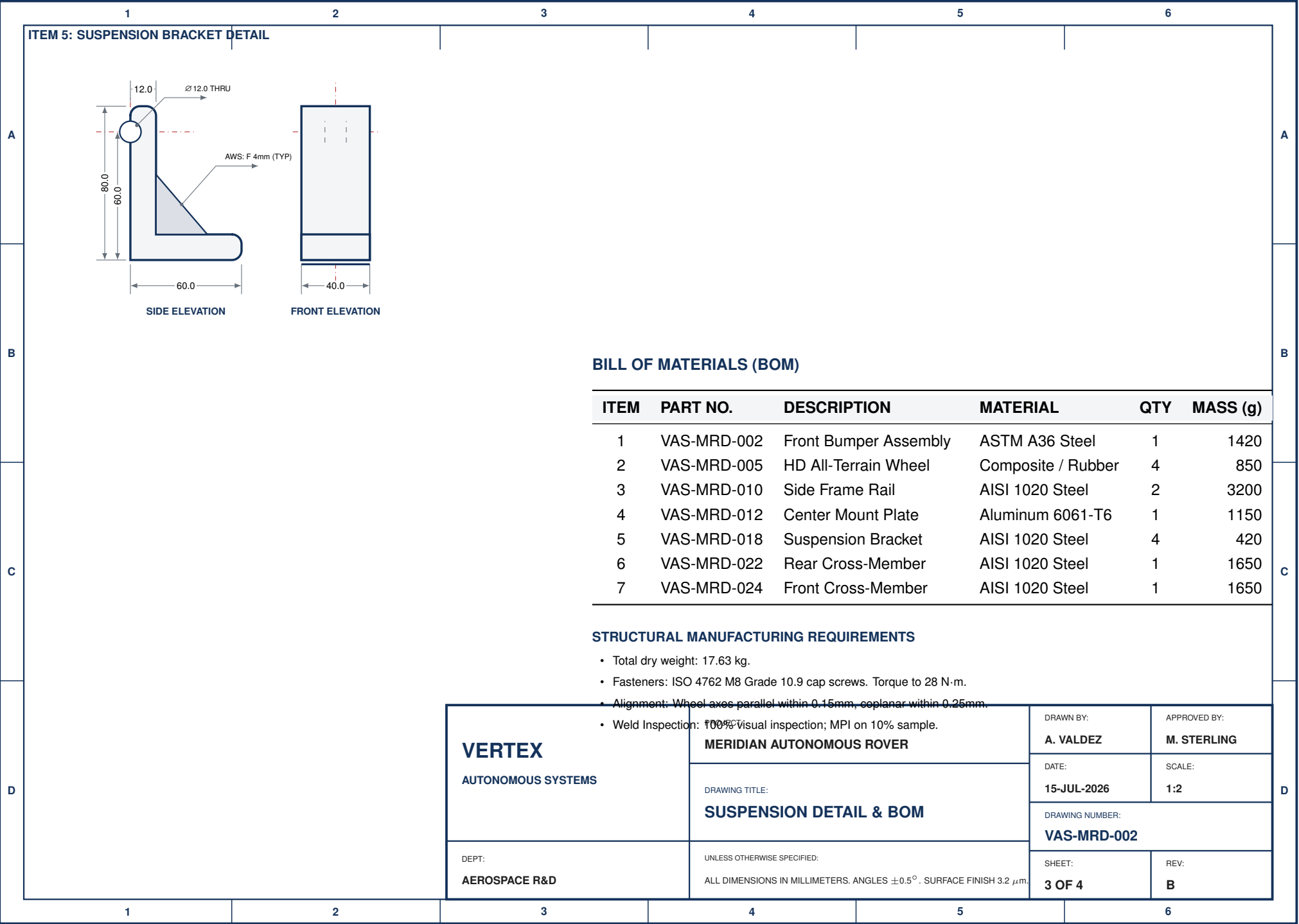




	1	2	3	4	5	6														
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		SHEET: 2 OF 4	REV: B																	
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	1	2	3	4	5	6
	REVISION HISTORY					
	REV	DESCRIPTION		DATE	DRAWN BY	APPROVED BY
A	A	Initial Release for Prototype Build		10-MAY-2026	A. VALDEZ	M. STERLING
	B	Relocated suspension points 15mm forward for CG optimization		02-JUN-2026	A. VALDEZ	M. STERLING
	C	Front bumper mount plate thickness changed from 4mm to 6mm		15-JUL-2026	A. VALDEZ	M. STERLING
	1.0 MANUFACTURING AND MATERIAL SPECIFICATIONS			2.0 WELDING AND FINISHING SPECIFICATIONS		
	1.1 Tubing: ASTM A513 DOM square steel tubing, min yield 310 MPa. Wall tolerance: ±0.15 mm. Deburred.			2.1 Welding: GMAW per AWS D1.1. Filler ER70S-6. Gas: 75% Ar / 25% CO ₂ mix. AWS certified welders.		
	1.2 Plates: Laser cut from ASTM A36 carbon steel plate, min yield 250 MPa. Remove laser dross.			2.2 Joint Prep: Clean joints of oil, rust, and water. Tack welds must be slag-free.		
	1.3 Machined Parts: Axle shafts machined from AISI 4140 steel (HRC 28-32). Journal finish: 0.8 μm Ra max.			2.3 Coatings: SSPC-SP6 blast cleaning. Apply zinc primer (50 μm) and matte black powder coat (80 μm).		
B						B
C						C
D	VERTEX AUTONOMOUS SYSTEMS		PROJECT:		DRAWN BY:	APPROVED BY:
			MERIDIAN AUTONOMOUS ROVER		A. VALDEZ	M. STERLING
			DRAWING TITLE:		DATE:	SCALE:
			REVISIONS & TECHNICAL SPECS		15-JUL-2026	NTS
					DRAWING NUMBER:	
					VAS-MRD-003	
					SHEET:	REV:
					4 OF 4	A
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