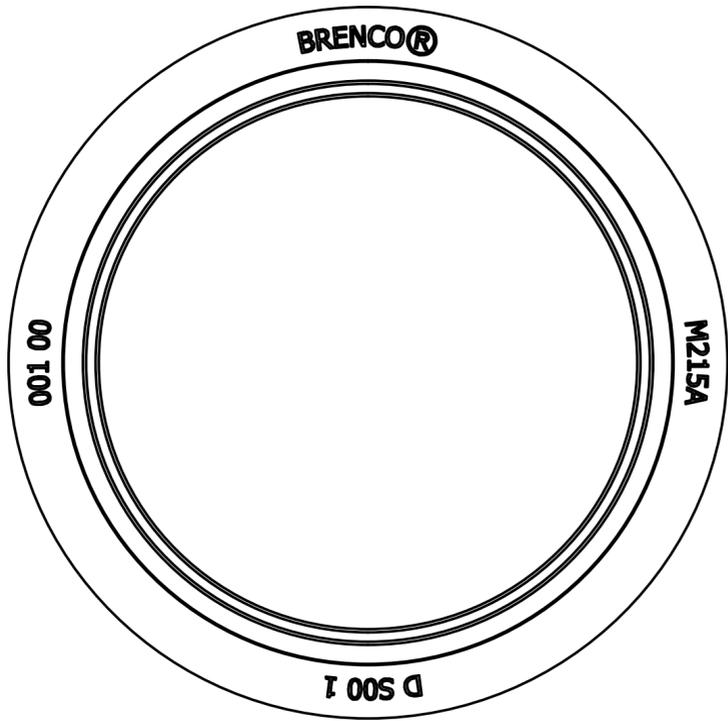
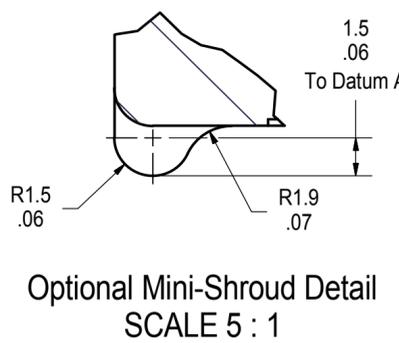
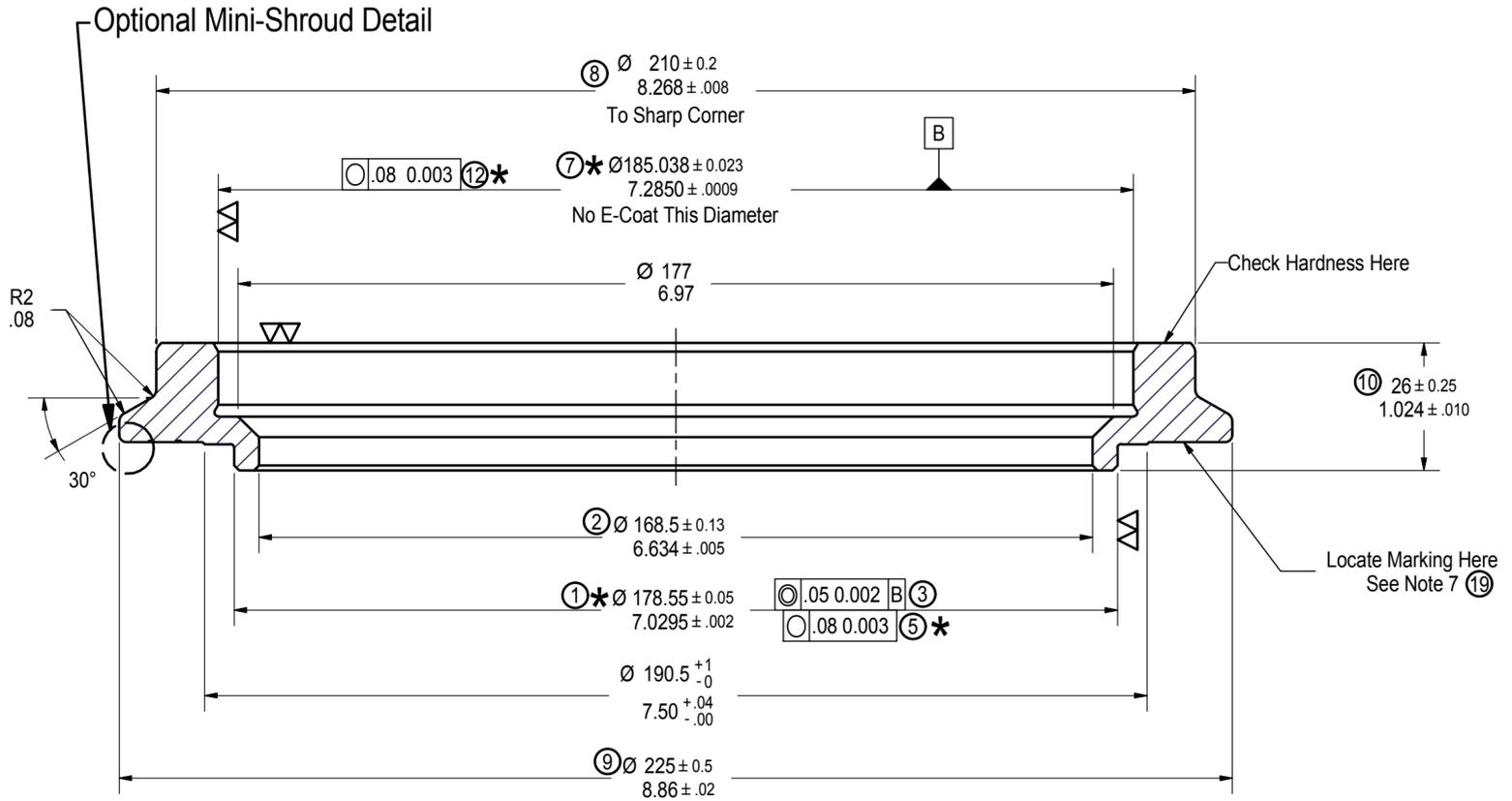
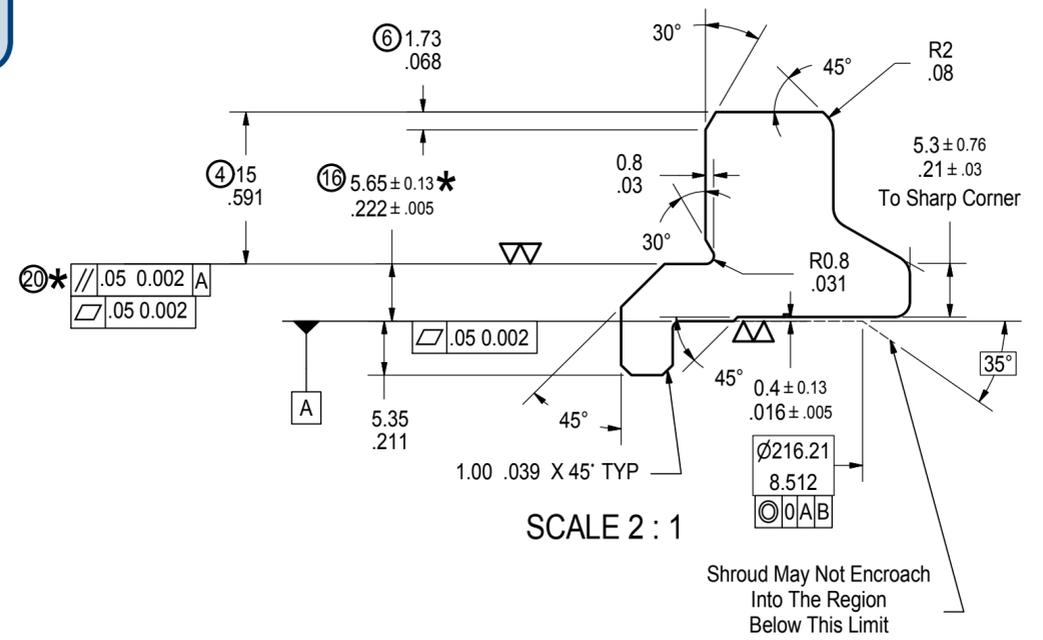


Notes:

- ⑰ 1. Material Properties: Minimal mechanical properties are provided as a guideline. Proposed material and mechanical properties must be approved by Amsted Rail Brenco.
- ⑱ 1a. Hardness: 187 BHN Min.
- 1b. Tensile Strength: 552 MPa 80,000 psi Min.
- 1c. Yield Strength: 379 MPa 55,000 psi Min.
- 1d. Elongation: 6 Min.
- 1e. Impact Toughness: KCV -60 = 1.3 kJ m² 89 lb*ft ft²
KCU -60 = 2 kJ m² 137 lb*ft ft²
- 1f. Send material certification with shipment.
- ⑳ * 2. Parts will be phosphate or electrostatic coated ("E-coated"), to be applied after machining and marking. No surface rust should be present.
 - 2a. Calcium modified zinc phosphate coating and oil coating or equivalent.
 - 2b. "E-coat" at 0.015mm - 0.03mm .0006" - 0.0012" .
- 3. All radii are 4.8mm 3/16" unless otherwise noted.
- 4. All radii are ± 0.8mm ± 1/32" unless otherwise noted.
- 5. Remove all burrs and break all sharp corners.
- 6. *Denotes critical dimensions and features that will be inspected for compliance upon receipt at Brenco.
- ⑲ * 7. In the recess, CNC engrave or die stamp the following equally spaced in 3mm 1/8" tall characters:
BRENCO®
M215A
Ductile
Supplier Cavity
Date
If the material is ductile iron, Ductile is **D**; otherwise, do not mark this element. Supplier is either a supplier code assigned by Brenco® or the supplier's logo. If the marking is cast in recessed characters, Cavity is the cavity number, and Date is the ordinal (Julian) date of casting followed by a space then a two-digit year; otherwise, do not mark Cavity, and Date is the two-digit month of machining followed by a space then a two-digit year. Stamped characters shall be 0.13 .005 to 0.38 .015 deep.
- 8. See BPS-115 for all additional requirements.

1871
07.08.2018

SURFACE FINISH		
USE Ra 5 µm Ra 200 µin MAX OTHERWISE NOTED		
SYMBOL	Ra µm	Ra µin
⑪ ▽▽	2.5	100



REV B	ECR 12233	DESIGNER M. LUMPKIN	REV ENG M. LUMPKIN	CHECKED BY T. LIEBE	ENG APVD DATE 9 14 2017
MATERIAL SEE NOTE 1		DATE 2 18 2014	© 2017 Amsted Rail Co., Inc. BRENCO® Bearings Petersburg, VA.		
HEAT TREAT AS NEEDED TO MEET MATERIAL PROPERTIES		DESIGNER M. LUMPKIN	ENGINEER M. LUMPKIN	BACKING RING 150 X 250 EUROASIA FITTED & SHROUDED	
SCALE FULL		PART WEIGHT 1.79 kg	MACHINED END PRODUCT		
MM INCH		PART No. M215AX	M215AX.S00		