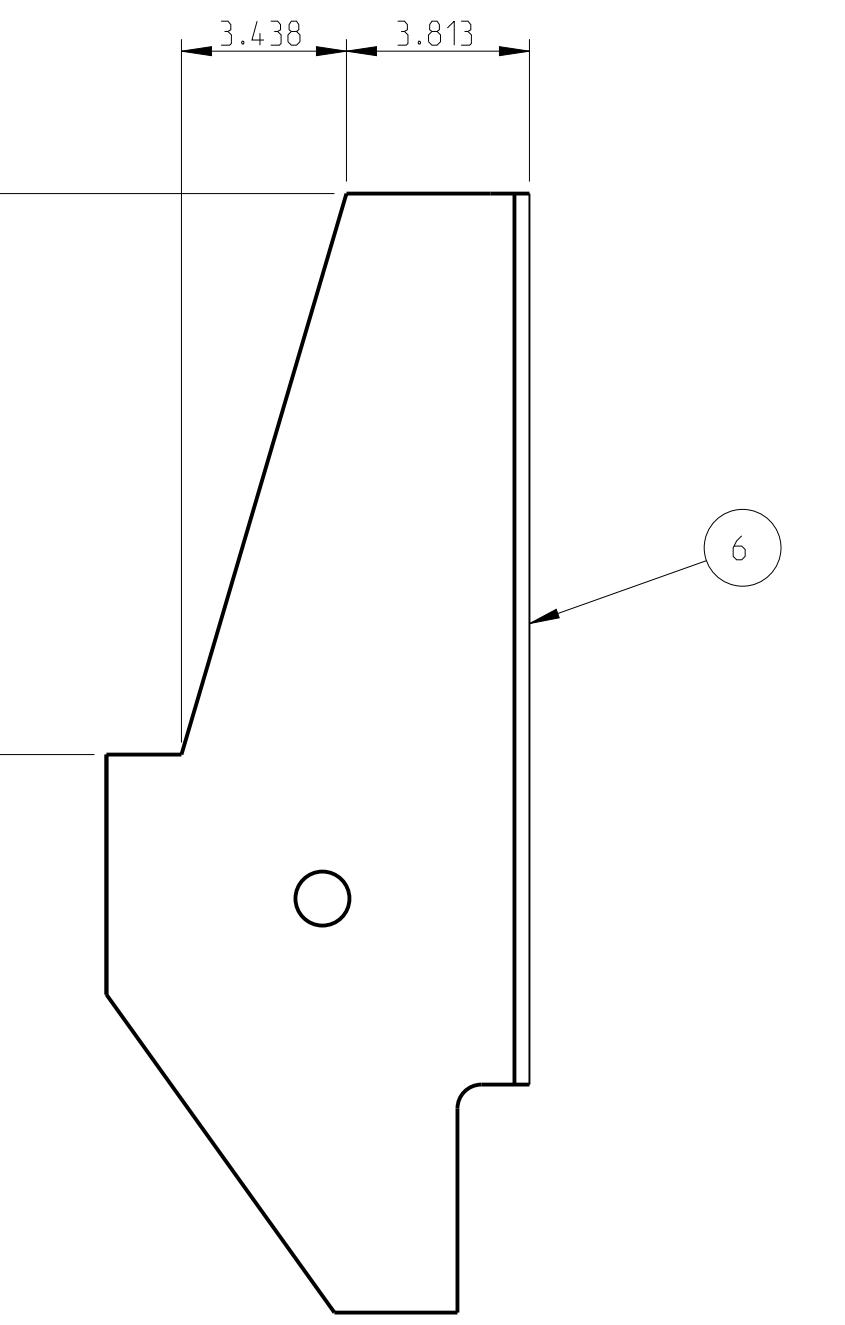
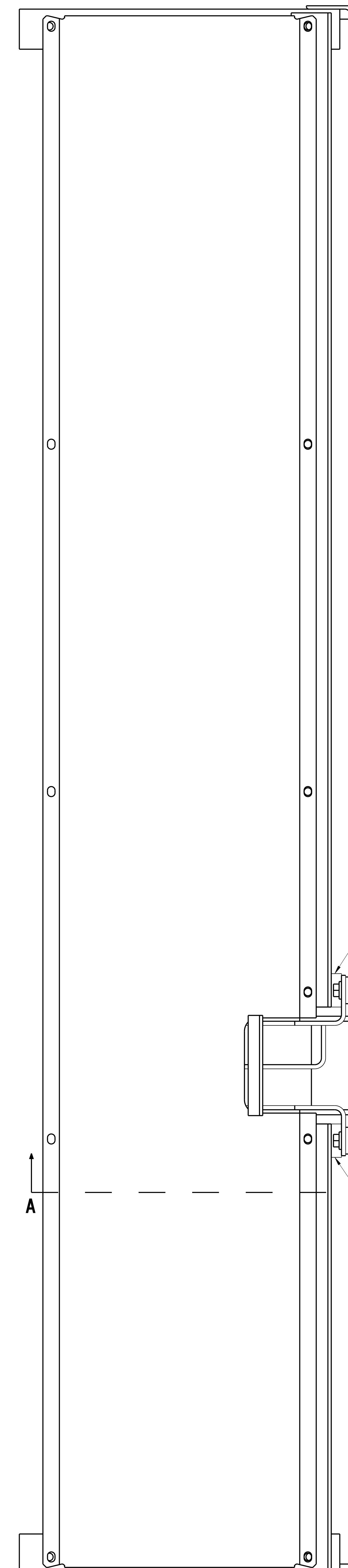
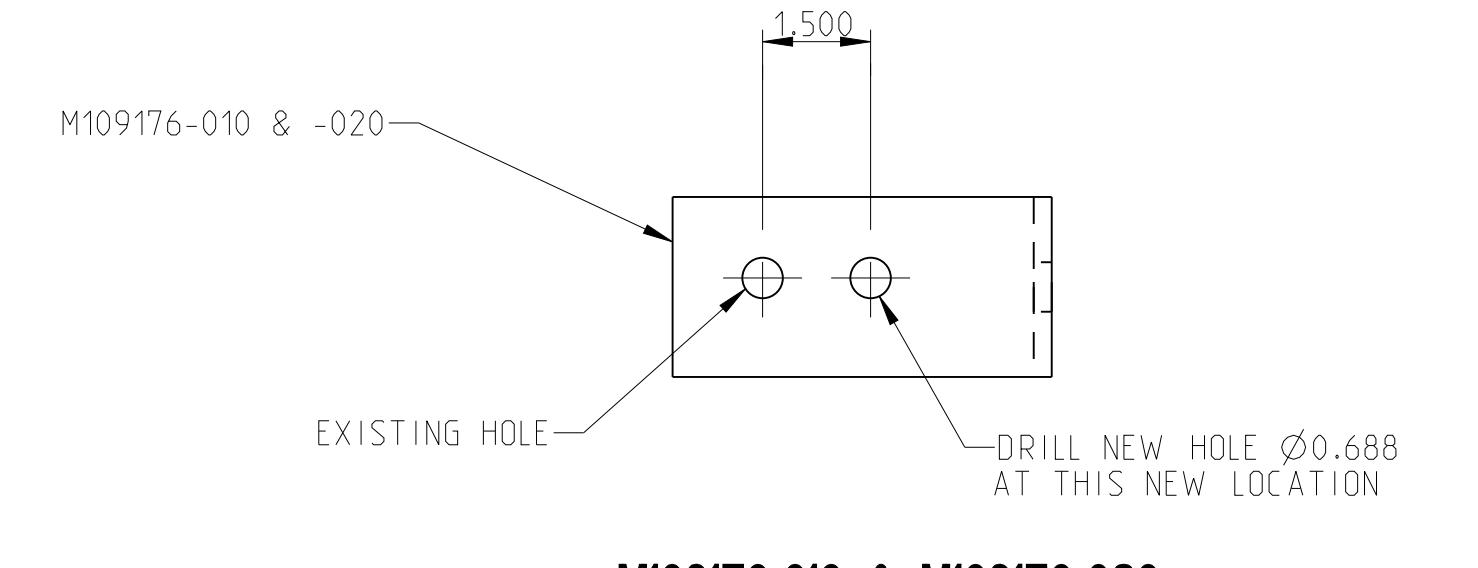


BILL OF MATERIAL

Item No.	Part No.	Description	Quantity
1	00594-440	BAR, 3" X 1/4" X 7 1/2", ASTM A-36	1
2	10250-004	NUT, CENTER LOCK Ø 5/8" - 11, ZINC PLATED	6
3	10298-125	BOLT, 5/8" DIA X 3 1/2", ZINC PLATED	2
4	10298-197	BOLT, 5/8" DIA X 3 1/4"	4
5	10340-111	WASHER, 5/8" HARDENED, ZINC PLATED	6
6	A109175-000	ASSEMBLY, SHEAVE WHEEL	1
7	M109257-000	FILLER, SHEAVE WHEEL	2
8	M109271-000	FACE PLATE, SHEAVE WHEEL	2

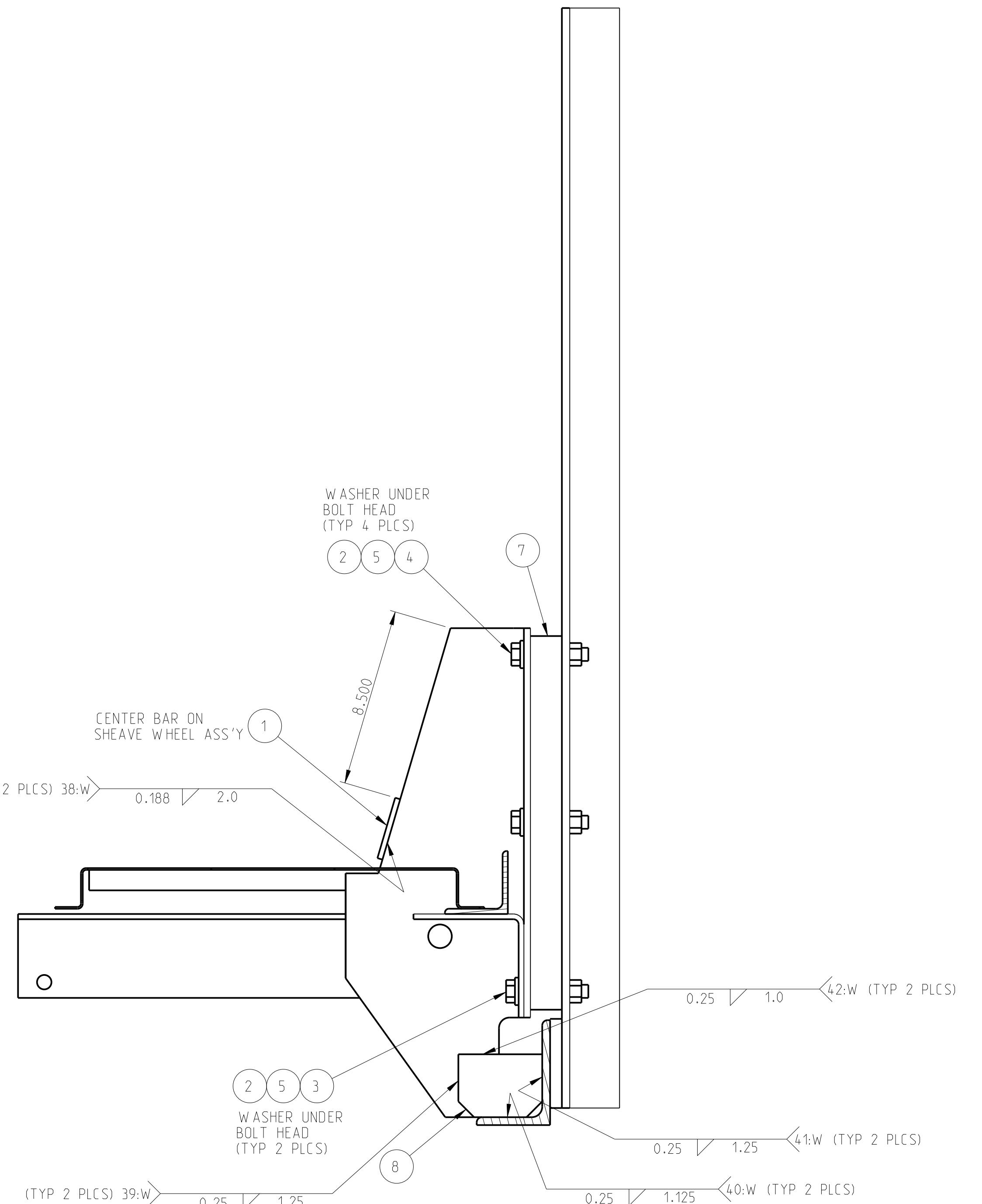


CUT EXISTING SHEAVE WHEEL
ASSEMBLY (A109175-000) TO THESE DIMS



M109176-010 & M109176-020

SCALE 0.375



SECTION A-A

NOTE:
1. THIS FIX/REPAIR APPLIES TO THE FIRST 45 CARS ONLY.

Level	Date	Approved	Description
REVISIONS			
FreightCar America			
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Standard Tolerances (Unless Noted)			
Decimal Dimensions ± 0.063		Hole Diameters ± 0.031	
Diagonals 0.125 Max. Variation		Angles ± 1°	
Radii will be thicknesses of material		Tolerances are not accumulative	
Made By: JAG/STS Date: 12-18-12 Ref Dwg. A108341-000		Approved: JWB Do Not Scale Drawing Est. Wt: N/A	
ARRANGEMENT, GENERAL			
Sheet	Size	Rev.	
3 of 3	E	A108945-000	D