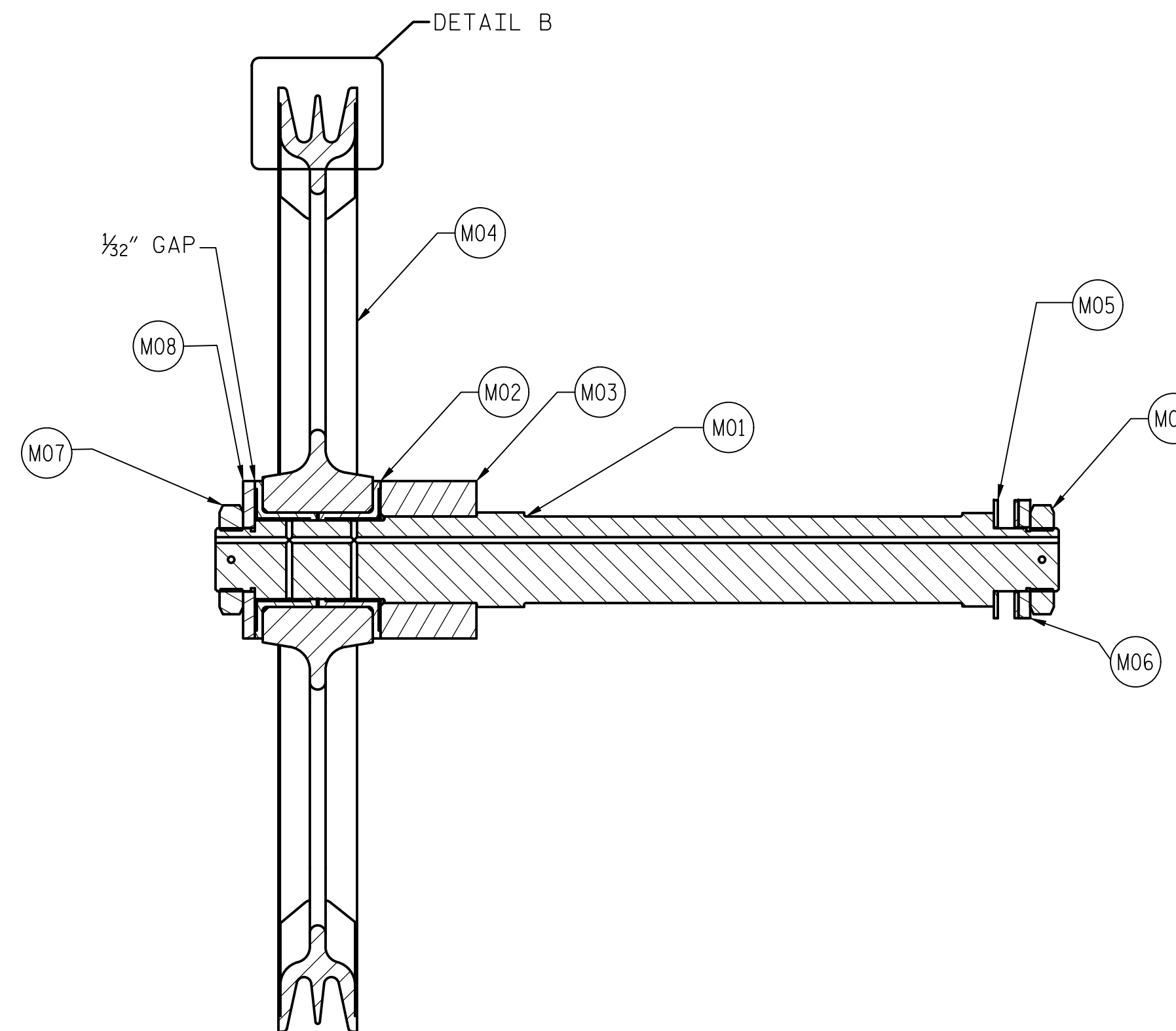


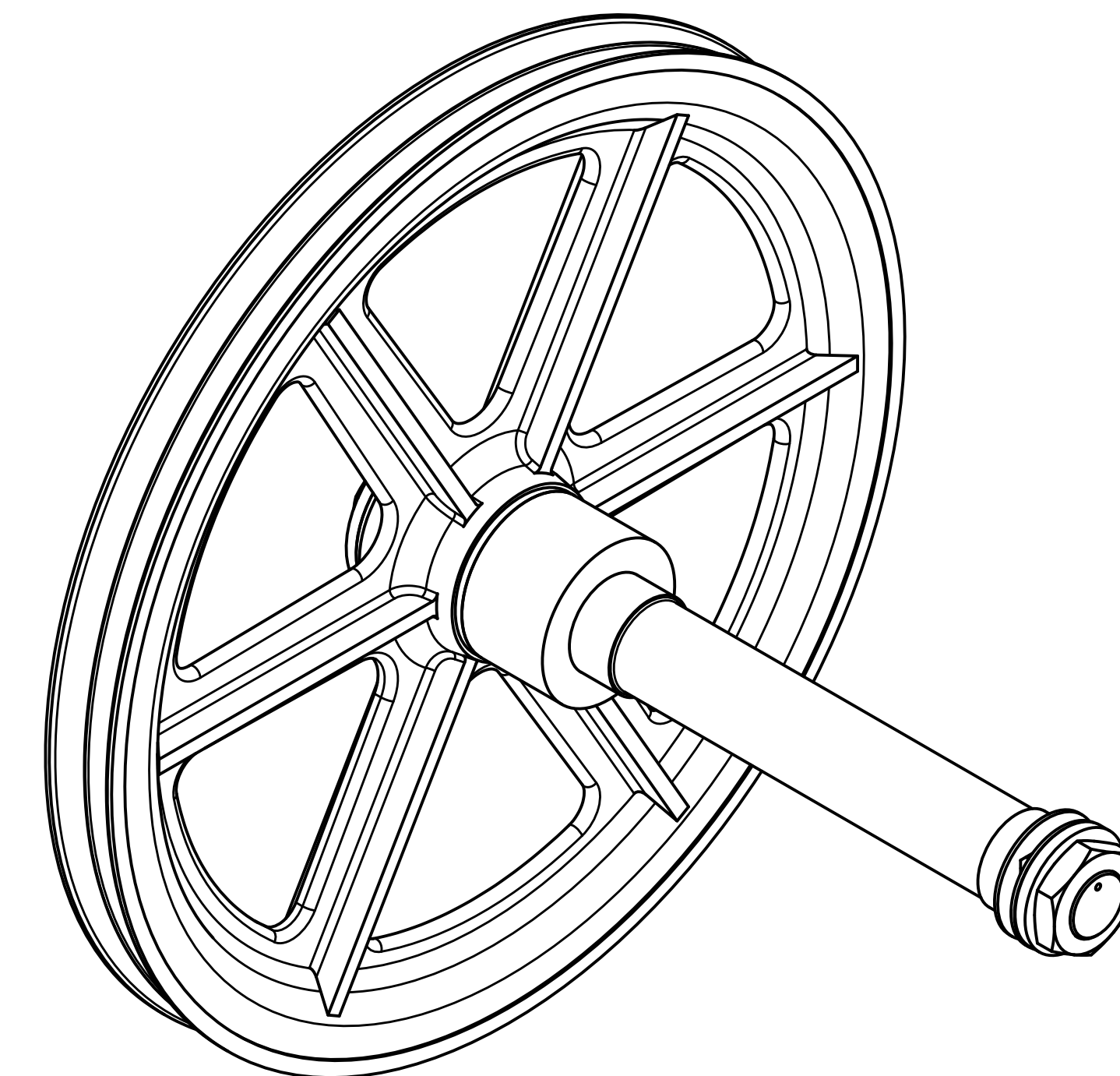
AUXILIARY COUNTERWEIGHT SHEAVE ASSEMBLY

SCALE: NTS



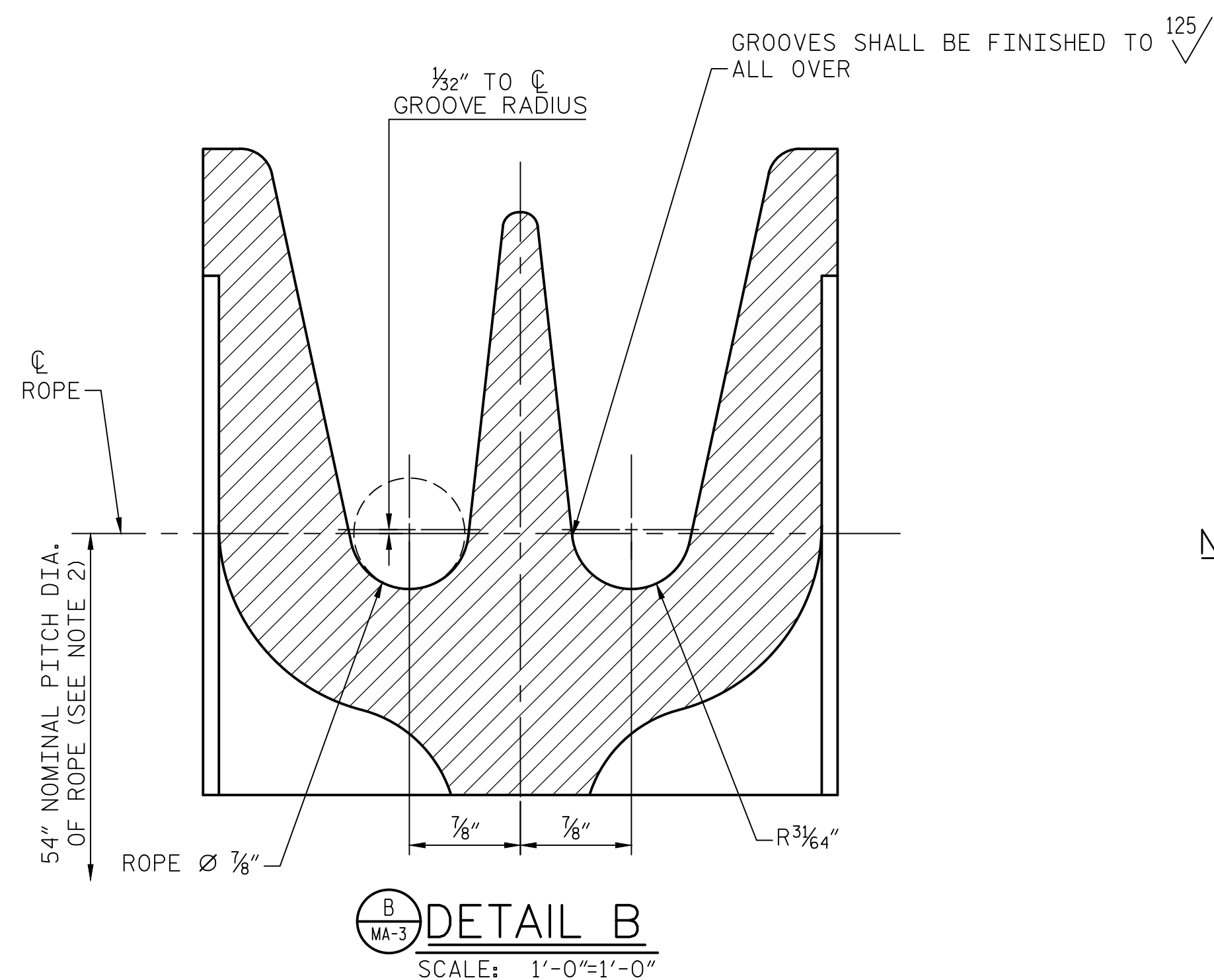
SECTION A-A

SCALE: NTS



BILL OF MATERIALS			
ITEM NO.	QTY.	DESCRIPTION	MATERIAL/MANUFACTURER
M01	4	NEW SHEAVE SHAFT	STEEL, ASTM A291, CLASS 3 OR A311 GR. 4140 COLD DRAWN
M02	8	NEW SHEAVE SHAFT BUSHING	BRONZE, ASTM B22 ALLOY C91100
M03	4	NEW SHEAVE THRUST COLLAR	STEEL, ASTM A311 GR. 1045, HOT ROLLED
M04	4	EXISTING AUXILIARY COUNTERWEIGHT SHEAVE	-
M05	8	NEW SHIM	STAINLESS, ASTM A240 TYPE 316
M06	4	NEW 7.5" THRUST WASHER	STEEL, ASTM A36
M07	8	NEW LOCK NUT WITH SS COTTER PIN	STEEL, ASTM A563, GR. 18-8 COTTER
M08	4	NEW 10" THRUST WASHER	STEEL, ASTM A36

* NOTE: MINIMUM PROPERTIES OF 90 KSI YIELD, 223 BHN



DETAIL B
SCALE: 1'-0"=1'-0"

NOTES:

1. ALL COMPONENTS TO BE NEW EXCEPT FOR THE AUXILIARY COUNTERWEIGHT SHEAVE.
2. AUXILIARY COUNTERWEIGHT SHEAVES TO BE CLEANED, PAINTED AND MACHINED TO CLEAN UP THE ROPE GROOVES. GROOVES SHALL BE MACHINED WITH MINIMAL MATERIAL REMOVED, TO A MAXIMUM OF 1/16" ON THE RADIUS. GROOVE MACHINING SHALL BE CONCENTRIC TO THE BORE WITHIN ±0.010". THERE SHALL BE A SMOOTH TRANSITION FROM THE GROOVE UP THROUGH ALL TAPERED SIDE WALLS. BOTH GROOVES ON A SINGLE SHEAVE SHALL BE MACHINED TO THE SAME PITCH DIAMETER, AND THE PITCH DIAMETER OF ALL 4 SHEAVES AFTER MACHINING SHALL BE THE SAME, TO WITHIN 1/16".

PROJECT NO. 15BPR.15
NEW HANOVER COUNTY
STATION: _____

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

AUX. COUNTERWEIGHT ASSEMBLY DETAILS - 1

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	MA-3
1			3			TOTAL SHEETS
2			4			10(A)

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RALEIGH, NC 27601
NC LICENSE NO. C-2979

NORTH CAROLINA PROFESSIONAL SEAL
044302
ENGINEER
LEE LENTZ
01/29/18

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

LAST SAVED 1/24/2018 4:24 PM BY EASAMPLE. LAST PLOTTED 1/29/2018 10:29 AM. FILE: \\vmd01d01p01\projects\1682\01\CADD\Mechanical\MA-3 AUX. COUNTERWEIGHT ASSEMBLY DETAILS - 1

DESIGNED BY: E. A. SAMPLE DATE: 08/17/17
DRAWN BY: J. M. SHOUP DATE: 08/17/17
CHECKED BY: L. R. LENTZ DATE: 01/25/18
DESIGN ENGINEER OF RECORD: L. R. LENTZ DATE: 01/25/18